jects\Star Development - Oakview (Lee's Summit) - Lot 3\Drawings\Drawings\Drawings-Plans\Final Development Plans\COVER.dwg, COVER, 10/5/2021 1:13:08 PM, ANSI full bleed D (34.00 x 22.00 Inches), 1:1

OAKVIEW - LOT 3

FINAL DEVELOPMENT PLANS

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI NE 1/4 OF SEC. 31-48-31

LEGAL DESCRIPTION

LOT 3 OF THE FINAL PLAT OF OAKVIEW -LOTS 1-5, A REPLAT OF LOT 2, "MINOR PLAT, POLYTAINERS ADDITION, LOTS 1 AND 2" AND PART OF NE DOUGLAS STREET ALL IN THE NE 1/4 OF SEC. 31-48-31 IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

FLOOD NOTE

THIS PROPERTY DOES NOT LIE WITHIN A FLOOD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP 29095C0409G. DATED 1/20/2017

OIL AND GAS WELL NOTE

THERE WAS NO OIL OR GAS WELLS LOCATED ON PROPERTY PER MISSOURI DEPARTMENT OF NATURAL RESOURCES OIL AND GAS PERMITS WEBSITE.

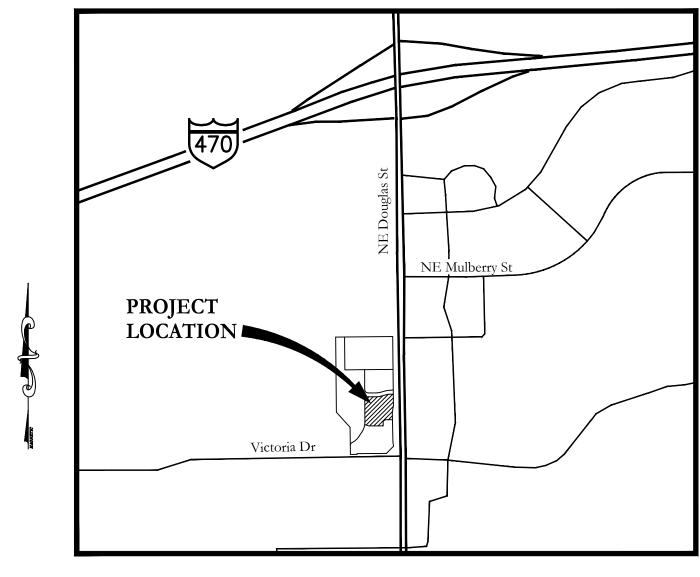
UTILITIES AND PUBLIC AGENCIES

CITY OF LEE'S SUMMIT PUBLIC WORKS	Michael Park	(816) 969-1820
WATER UTILITIES	Jeff Thorn	(816) 969-1900
ELECTRIC EVERGY	Ron Dejarnette	(816) 347-4316
GAS SPIRE	Katie Darnell	(816) 969-2247
TELEPHONE AT&T	Marty Loper Mark Manion Darrin Shepherd	(816) 275-1550 (816) 325-6516 (816) 772-0336
CABLE COMCAST	Ryan Alkire	(816) 795-2218



NOTE:

Contractor shall be responsible for determining the exact locations of all underground utilities or appurtenances prior to commencing construction. Existing underground utilities shown on the drawings are for reference only, and their accuracy and completeness are not guaranteed. Contractor shall be responsible for repair or replacement of all underground utilities damaged during construction.



LOCATION MAP

NOT TO SCALE

CONTACTS

ENGINEERING

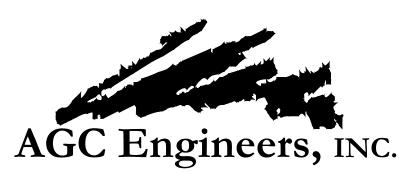
Engineering Alternate 78
Ronald L. Cowger, PE

Engineering Primary 7

Art Akin, PE

DEVELOPER

STAR ACQUISITIONS AND DEVELOPMENT, LLC TIM HARRIS 244 W. MILL STREET, SUITE 101 LIBERTY, MISSOURI, 64068 (816) 781.3322



405 S. Leonard St., Suite D Liberty, Missouri 64068 www.agcengineers.com 816.781.4200 ■ fax 792.3666

BY	REVISION	DATE
RC/ACA	FOR REVIEW - REVISED PER 9-15-21 CITY COMMENTS	10-5-21
RC/ACA	FOR REVIEW	8-26-21

STATUS

FOR PERMIT

FOR CONSTRUCTION

PLANS CONFORMING TO

CONSTRUCTION RECORDS

DATE:

10-5-21

SHEET LIST		
SHEET NUMBER	SHEET TITLE	
1	COVER	
2	GENERAL NOTES & LEGEND	
3	EXISTING CONDITIONS	
4	SITE PLAN	
5	GRADING & EROSION CONTROL PLAN	
6	GRADING PLAN - CUT & FILL	
7	UTILITY PLAN	
8	SPOT ELEVATION PLAN	
9	SPOT ELEVATION PLAN	
10	DRAINAGE AREA MAP & CALCS	
11	STORM PLAN & PROFILES	
12	DETAILS	
13	DETAILS	
14	DETAILS	
15	DETAILS	
L100	LANDSCAPE PLAN	
	LIGHTING PLAN	

SEE ADDITIONAL PLANS PREPARED BY SCHARHAG ARCHITECTS.

McLAUGHLIN MUELLER, INC. HAS SOLE RESPONSIBILITY FOR SHEET 3, VSR DESIGN HAS SOLE RESPONSIBILITY FOR SHEET L100 AND PREMIER LIGHTING AND CONTROLS HAS SOLE RESPONSIBILITY FOR THE LIGHTING PLAN.

ENGINEER'S CERTIFICATION:

I hereby certify that this project has been designed, and these plans prepared, to meet or exceed the design criteria of City of Lee's Summit, Missouri, in current usage, except as indicated below.

Exceptions:	1
	2.
	3.
	4

I have not been retained to coordinate as-built drawings for this project.



Ronald L. Cowger, PE AGC Engineers, Inc. All required permits

Signed approved plans,
Contract Documents and Project Specifications,
Standard Specifications (Kansas City Metro Chapter-APWA)
Storm Water Pollution Plan (SWPPP)

- 2. The Contractor shall reference the City of Lee's Summit Design Criteria, Standard Specifications, Standard Details, Approved Products Lists found at the following website
- https://cityofls.net/development-services/design/design-criteria/design-construction-manual-infrastructure
- 3. This Project shall be constructed in accordance with these Plans, City of Lee's Summit criteria and specifications (listed above), and their absence the Kansas City Metro Chapter of American Public Works Association (most current version) "APWA".
- 4. All work required to complete the project and that is not specifically itemized in the Contractor's proposal shall be considered subsidiary to other work itemized in the proposal.
- 5. All materials and workmanship associated with this project shall be subject to inspection by the City of Lee's Summit and the Owner. The City and/or Owner reserves the right to accept or reject any such materials and workmanship that does not conform to the Standards and Technical Specifications.
- 6. RESERVED
- 7 The Contractor shall notify the Engineer immediately of any discrepancies in the Plans.
- 8. By use of these Plans the Contractor agrees that he shall be solely responsible for the safety and protection of the construction workers and the public.
- 9. Contractor is to obtain the necessary permits for all construction activities.
- 10. Contractor shall be responsible for determining the exact locations of all underground utilities or appurtenances prior to commencing construction. Existing underground utilities shown on the drawings are for reference only, and their accuracy and completeness are not guaranteed. Contractor shall be responsible for repair or replacement of all underground utilities damaged during construction.
- 11. RESERVED
- 12. It shall be the responsibility of the Contractor to control erosion and siltation during all phases of construction.
- 13. Any sidewalk, curb & gutter or pavement disturbed, damaged or destroyed during construction shall be replaced by Contractor at no additional cost to Owner
- 14. Modified curb shall be used at all locations where pavement drains away from curb.
- 15. The Contractor shall contact the City's Development Service Engineering Inspectors 48 hours prior to beginning any work at (816) 969-1200.
- 16. Contractor shall be responsible to install pavement joints on all concrete pavement, slabs, and / or sidewalk. At a minimum, an expansion joint shall be provided along all interfaces of
 - 1. Building to sidewalk
 - 2. Building to concrete pavement
- 3. Sidewalk to concrete pavement Contractor shall submit a joint plan to the Engineer for review

GRADING NOTES:

- Erosion protection shall be in place prior to any land disturbance.
- 2. Contours shown are to finished grade
- 3. The construction area shall be cleared, grubbed, and stripped of topsoil and organic matter from all areas. Excess topsoil shall be stockpiled separately from compactable material. Stripping existing topsoil and organic matter shall be to a minimum depth of six (6) inches.
- 4. Areas to receive fill shall be striped of top soil and other organic material, scarified, and the top eight (8) inch depth compacted to 98% standard proctor density prior to the placement of any fill material. Any unsuitable areas shall be undercut and replaced with suitable material before any fill material can be placed.
- 5. Fill material shall be made in lifts not to exceed nine (9) inches depth compacted to 98% standard proctor density (per ASTM D-698) with a moisture content -3% and +2% optimum moisture. Contractor shall provide (at his/her sole cost) an independent geotechnical report certifying compaction at a sample interval of one (1) sample per 5000 square feet per lift or more frequent if required/recommended by the geotechnical firm. Geotechnical firm shall be approved by Owner prior to beginning fill operations. Fill material may include rock from on-site excavation if carefully placed so that large stones are well disturbed and voids are completely filled with smaller stones, earth, sand or gravel to furnish a solid embankment. No rock larger than three (3) inches in any dimension nor any shale shall be placed in the top 12 inches of embankment.
- 6. In all areas of excavation, if unsuitable soil conditions are encountered, a qualified Geotechnical engineer shall recommend to the Owner on the methods of undercutting and replacement of property compacted, approved fill material.
- 7. All slopes are to be 3:1 or flatter unless otherwise indicated.

- 8. All slopes and areas disturbed by construction shall be graded smooth and a minimum four (4) inches of topsoil applied. If adequate topsoil is not available on-site, the Contractor shall provide topsoil, approved by the Owner, as needed. Any areas disturbed for any reason shall be corrected by the Contractor at no additional cost to the Owner prior to final acceptance of the project.
- 9. All disturbed areas shall be seeded, fertilized and mulched or sodded in accordance with the standards and specifications adopted by the reviewing governing agency and good engineering practices.

EROSION CONTROL NOTES:

- Control of sediment is a very dynamic (ever changing) process. These plans are provided as a basis of anticipated erosion control measures. The Contractor shall modified add or delete with the Owner's permission the erosion control measure shown to prevent the migration of sediment off of the Owner's property and/or into jurisdictional waters/waterways.
- 2. Any sediment deposited on public streets shall be removed immediately by Contractor at his sole expense.
- 3. Stockpile excavation materials away from existing channels and grade to drain to adequate erosion control
- 4. Remove silt build up in temporary sediment basins (if applicable), inlet protection devices and/or silt fence until site is completely stabilized. Verify grade prior to final seeding, lining or rip-rap installation.
- 5. All disturbed areas shall be seeded, fertilized and mulched, or sodded, in accordance with the Kansas City Metro Chapter of American Public Works Association. Seeding/Sodding shall be completed within 14 days after completing the work, in any area. If this is outside of the recommended seeding period, erosion control measures or other similarly effective measure shall remain and be maintained by Contractor until such time that the areas can be seeded and a stand of grass established per Missouri DNR or MoDOT Section 805.4 standards.
- 6. When sediment deposits reach approximately one-half the height of the BMP, the sediment shall be removed or a second BMP shall be installed. All costs associated with this work, including related incidents, shall be the Contractor's responsibility and shall be included in the bid for the proposed work.
- 7. Contractor shall perform BMP inspection once a week and after each rainfall event, and provide Owner a copy of report within 48 hrs. Faulty or inadequate erosion control measures shall be remediated or modified the same day of inspection so as to minimize the risk of sediment discharge from the Owner's property or jurisdictional waters/waterways.
- 8. Contractor shall protect and maintain erosion control measures until a complete stand of grass as defined by Missouri DNR has been established.
- 9. Concrete Washout Areas will be determined onsite by the Job Superintendent.
- 10. At a minimum the following permits/approvals shall be posted on site or as required by the permit terms and conditions:
 City of Lee's Summit Land Disturbance Permit.
- 11. Permanent fertilizing, seeding (Type "A") and mulch shall be in accordance with Kansas City Metro Chapter of American Public Works Association. Final acceptance per MoDOT Sections 805.4
- 12. The Contractor shall install Erosion Control Blanket (ECB) on all slopes with 3:1 slope or greater. ECB shall be Landlok CS2 or approved equal.
- 13. Provide temporary silt fencing at all pipe entrances until all site seeding and sodding has been established.
- 14. Immediately remove sediments or other materials tracked onto public roadways.
- 15. Provide and maintain stabilized roadway construction entrance (or entrances as may be required).
- 16. Coordinate site grading with existing and proposed utilities.
- 17. Stock pile waste excavation materials away from existing channels and grade to drain.
- 18. Remove silt build up in basin and verify grade prior to final seeding, lining or rip-rap installation and clean up.
- 19. All disturbed areas shall be seeded, fertilized and mulched, or sodded, in accordance with the Standards and Specifications adopted by the City of Lee's Summit, MoDOT, MoDNR or other governing agency and good engineering practices.
- 20. Silt fences, whether straw bales or filter fabric, require maintenance to preserve their effectiveness. All silt fences shall be inspected immediately after each heavy rainstorm and at least daily during prolonged rainfall. Any required repairs shall be made immediately. When sediment deposits reach approximately one-half the height of the silt fence, the sediment shall be removed or a second silt fence shall be installed. All costs associated with this work, including related incidentals, shall be the contractor's responsibility and shall be included in the bid for the proposed work.

WATER NOTES:

- 1. Reference MEP Plans to confirm fire protection main size (if required), domestic water and meter sizes. If a discrepancy exists between the Plans contact the Engineer prior to ordering material.
- Domestic water shall be 3/4-inch & 1-inch soft "k" copper conforming to the latest federal specifications or cross-linked polyethylene (PEX) meeting current City Code.
- 3. Minimum cover for water lines shall be 42 inches.
- 4. Install fittings as required. maximum pipe deflection per manufacturers recommendations.
- Install 3/4-inch tap and 3/4-inch service to 3/4-inch water meter at property line (on private property side). Extend 1-inch domestic water from water meter to building.
- 6. All water service installation, including back-flow devices, are subject to field verification and approval by City inspector.

REFERENCE DOCUMENTS & DRAWINGS:

Contractor shall reference the following documents prior to beginning Work

1. Architectural Plans (including but not limited to MEP and Structural Plans)

2. Landlord Work Order list from Star Acquisitions and Development, LLC

STORM NOTES:

- 1. All HDPE pipe shall be Water-Tight
- 2. All High Density Polyethylene (HDPE) pipe shall conform to AASHTO M294 Type S. Acceptable pipe must come from a Plastic Pipe Institute (PPI) certified manufacturer and have passed the PPI 3rd Party Certification testing. Each individual section of pipe shall be marked in accordance with AASHTO M294 and shall be affixed with the PPI Certification label. HDPE pipe shall be joined with water tight joints meeting the requirements of AASHTO M294 Paragraph 7.9.3.
- 3. Pipe lengths are from inside face to inside face.
- 4. End sections for HDPE pipe shall be metal with concrete toe wall unless noted otherwise.

ELECTRIC:

- 1. Contractor to coordinate with Evergy Electric for electrical service.
- 2. Contractor to coordinate with Evergy Electric for location of transformer pad and transformer if required.

GAS:

1. Contractor to coordinate with Spire for gas service, and location of meter.

TELEPHONE:

Site contractor to install PVC conduit(s) for use by telephone company. Site
contractor to coordinate with telephone company for installation of service and
location of proposed pedestals, etc. Telephone conduit shall have a minimum
cover of 30". Site contractor shall coordinate location with telephone company
representative and locate PVC crossings as necessary. See building plans for
entrance locations.

SANITARY NOTES:

- 1. All sanitary stub lines shall be laid on 2.00% grade unless approved otherwise.
- The Contractor shall install and properly maintain a mechanical plug at all connection points with existing lines until such time that the new line is tested and approved.
- 3. Where sanitary sewer lines are to be installed over and across water lines, a minimum of 24 inches of clearance shall be provided. Where clearance is not provided, construct sanitary sewer line of ductile iron pipe for a distance of at least 10 feet in each direction from crossing, with no joint within 6 feet of crossing.
- Performance testing in accordance with APWA Section 2508. Witness and acceptance by City is required before placing in service.
- 5. All service lines shall be schedule 40 PVC.
- All pre-cast manholes shall meet or exceed standards and specifications as set forth in ASTM C-478.
- 7. All PVC pipe shall meet or exceed standards and specifications as set forth in ASTM D-3034.
- 8. All proposed and existing street crossings shall be tamped granular backfill (Type 3) from the bottom of the trench to a point that is 15" below the finished grade of the street. All existing street crossings shall be filled with flowable fill per detail STR-011.
- 9. Mandrel testing is required and shall be performed in accordance with APWA 2508.5, at a minimum of 30 days after installation.
- 10. All inspection of sanitary sewer construction shall be performed by the City of Lee's
- 11. It is the responsibility of the contractor to have sanitary sewer lines air tested and sanitary sewer manholes vacuum tested for new construction and modifications to existing. Contractor shall provide city with test results upon completion of construction.
- 12. Areas with less than three (3) feet of depth from existing grade to proposed top of pipe shall be filled to an elevation of three (3) feet above the proposed top of pipe, compacted to 95% density +/-2% prior to trenching or laying of any pipe.
- 13. Sanitary sewer piping material shall be as follows:
- 0 to 15' depth; SDR-35 PVC 15' to 22' depth; SDR-26 PVC 22' to 30' depth; SDR-21 PVC greater than 30' depth; D.I.P.
- 14. All manholes, catch basins, utility valves, and meter pits shall be adjusted or rebuilt to grade as required.
- 15. Service lines shall be extended a minimum of 1 foot past the house side of all utility easements.

6" service laterals; SDR-35 PVC at 2.0% minimum.

16. Insert Tee's or Saddles for service lines are not allowed except in special cases with prior City approval and City observation of installation.

DRAINAGE EASEMENT

ELECTRIC EASEMENT

BUILDING LINE SETBACK

RADIUS OR RAMP (as it relates to sidewalks)

LANDING (as it relates to sidewalks)

MECHANICAL, ELECTRICAL & PLUMBING

WATER SERVICES DEPARTMENT

UTILITY EASEMENT

AIR CONDITIONER

DOWN SPOUT

TOP OF CURB

GROUND

PAVEMENT

LOW POINT

HIGH POINT

GAS METER

MANHOLE

SIDEWALK

E/E

B/L

D.S.

S/W or SW

WATER METER

<u>LEGEND</u>

EXISTING			

SET MONUMENT AS NOTED STAMPED LS 1999141096
FOUND 1/2" REBAR LS 1989
FOUND MONUMENT AS NOTED

(M) MEASURED DISTANCE

CONTROL POINT

DOWN GUY

FIRE HYDRANT

↓ LIGHT POLE▶ POWER POLE▶ POST

■ MANHOLE⊗ WATER VALVEB/L BUILDING LINE

D/E DRAINAGE EASEMENT

-OHP- AERIAL UTILITY

S/E SANITARY SEWER EASEMENT
U/E UTILITY EASEMENT

-UGG- UNDERGROUND GAS
-UGP- UNDERGROUND POWER

-UGT- UNDERGROUND TELEPHONE
-UGW- UNDERGROUND WATER

PROPOSED

WATERLINE

WATER VALVE

PARKING COUNT

_____ STORM SEWE

WM WATER METER

GAS LINE

CO o CLEANOUT

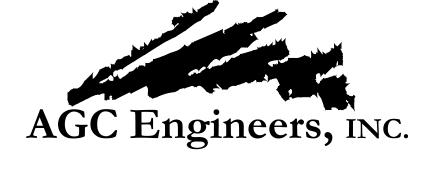
______780 _____ CONTO

LIGHT POLE (SITE PARKING)

BY REVISION DATE

RC/ACA FOR REVIEW - REVISED PER 9-15-21 CITY COMMENTS

RC/ACA FOR REVIEW 8-26-21



405 S. Leonard St., Suite D Liberty, Missouri 64068

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www.agcengineers.com

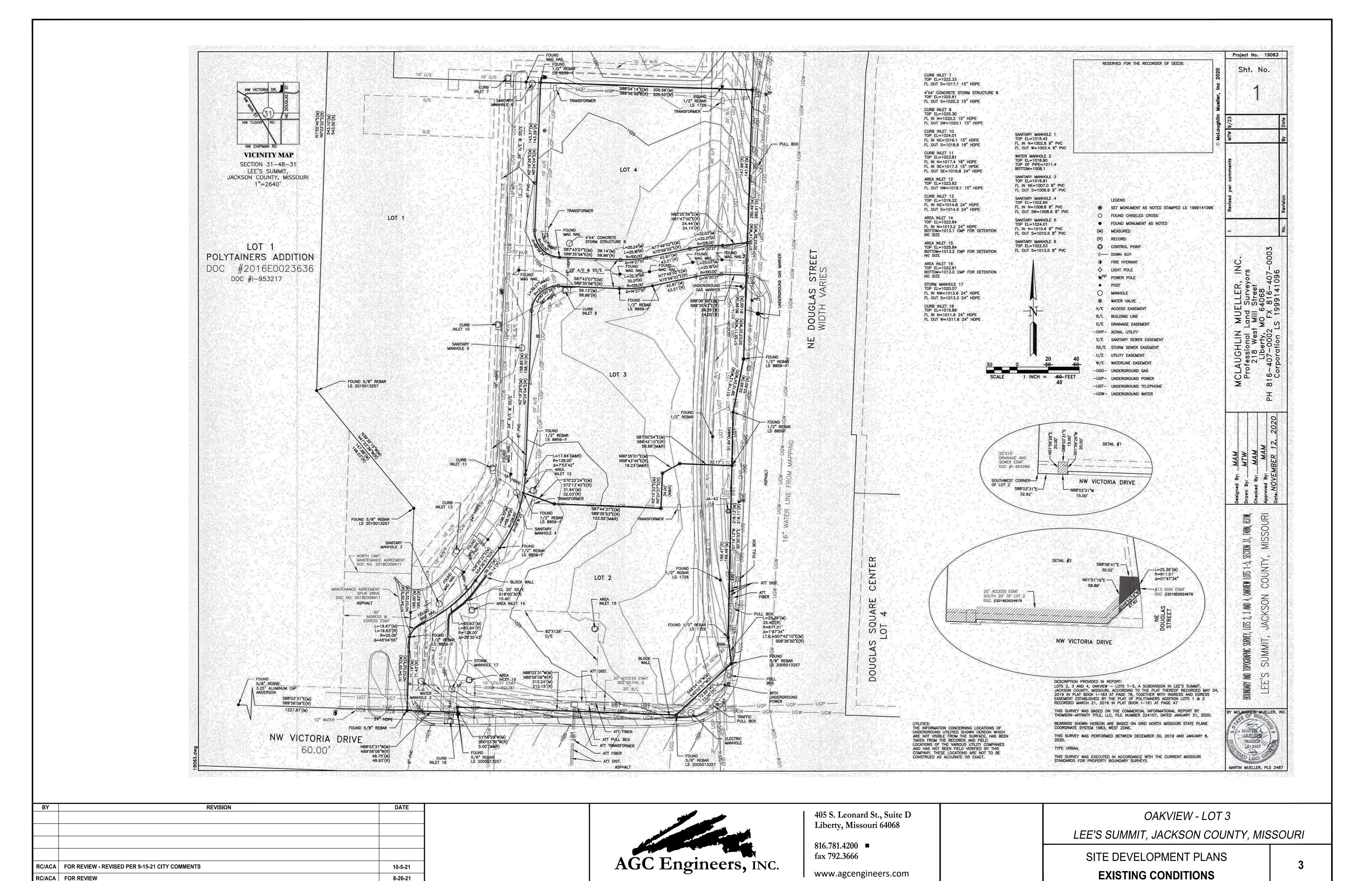


OAKVIEW - LOT 3
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

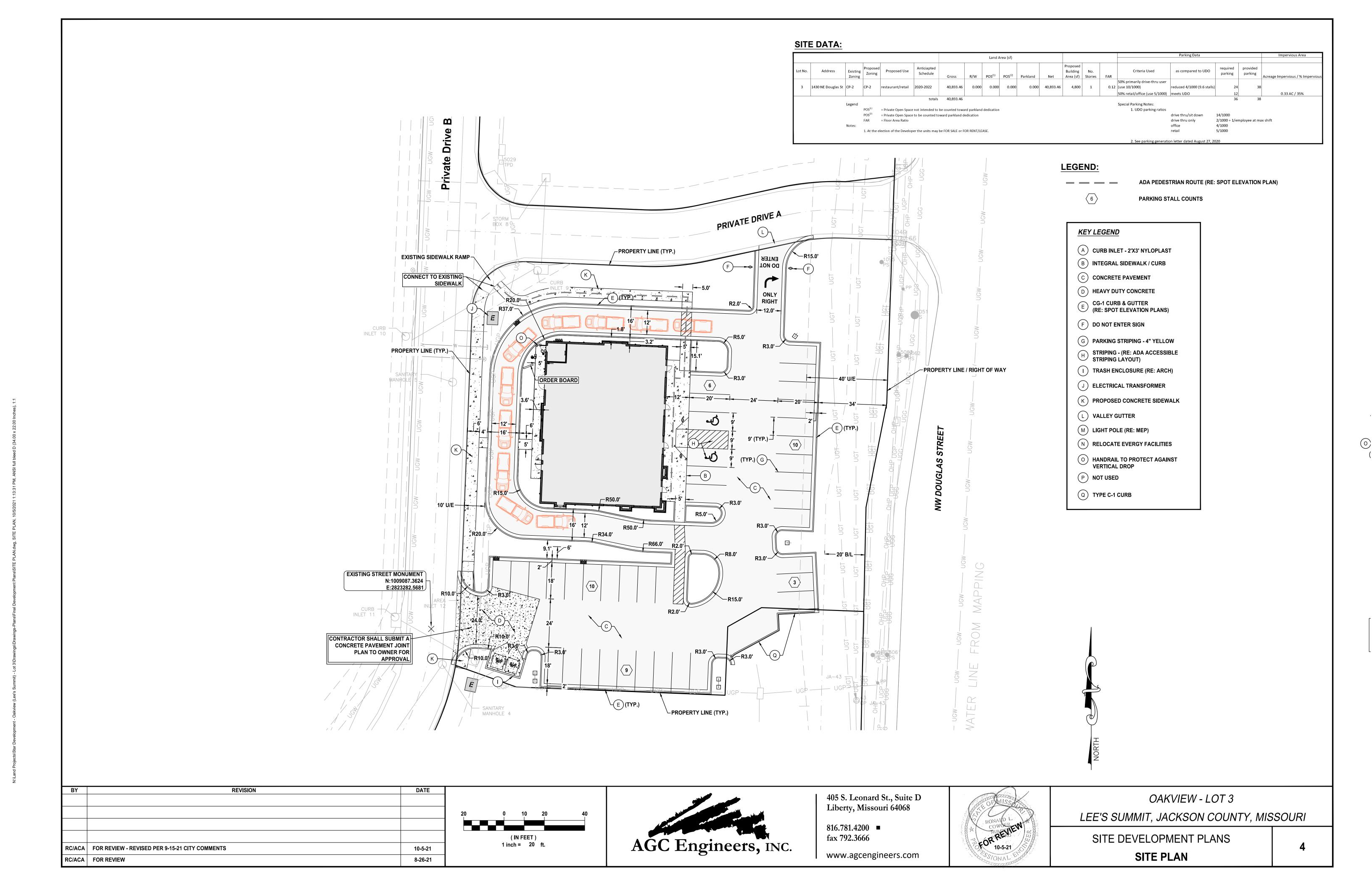
SITE DEVELOPMENT PLANS

GENERAL NOTES & LEGEND

RC/ACA | FOR REVIEW



8-26-21



LEGEND:

EROSION CONTROL

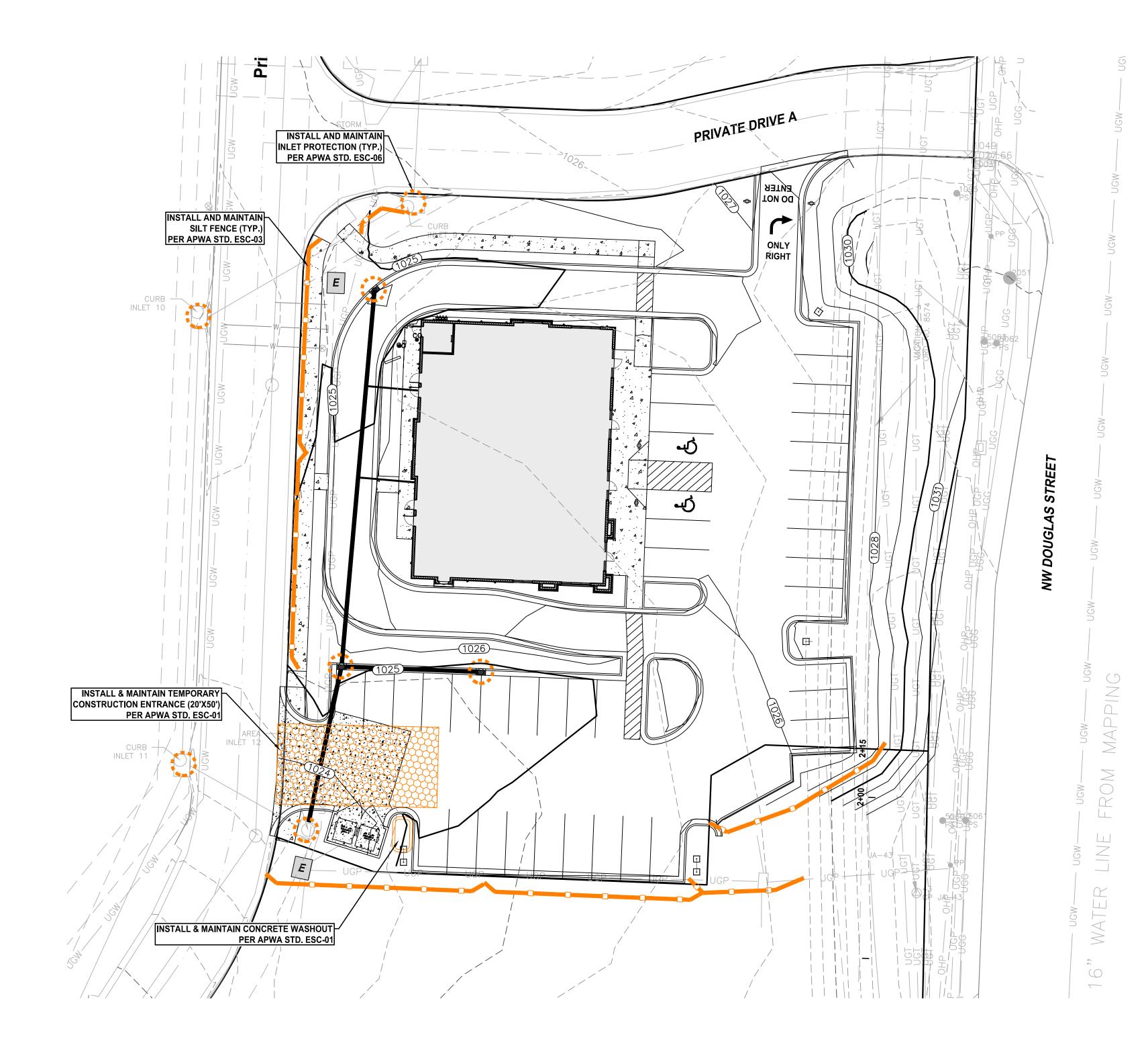
INLET PROTECTION PER APWA STD. DWG ESC-06

SILT FENCE PER APWA STD. DWG ESC-03

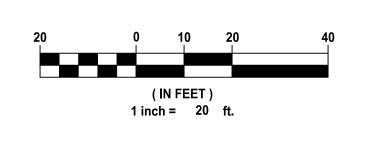
NOTES:

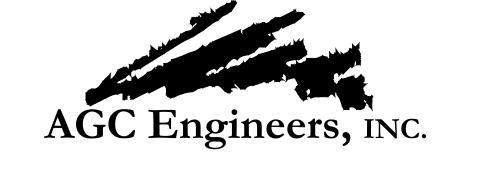
- 1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE BEFORE GRADING.
- 2. REMOVE TEMPORARY BMPs AFTER PAVING IS COMPLETED AND PERMANENT GRASS IS ESTABLISHED.
- 3. DISTURBED AREA = 0.92 AC





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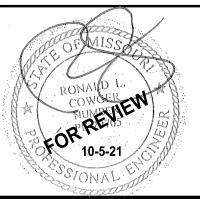




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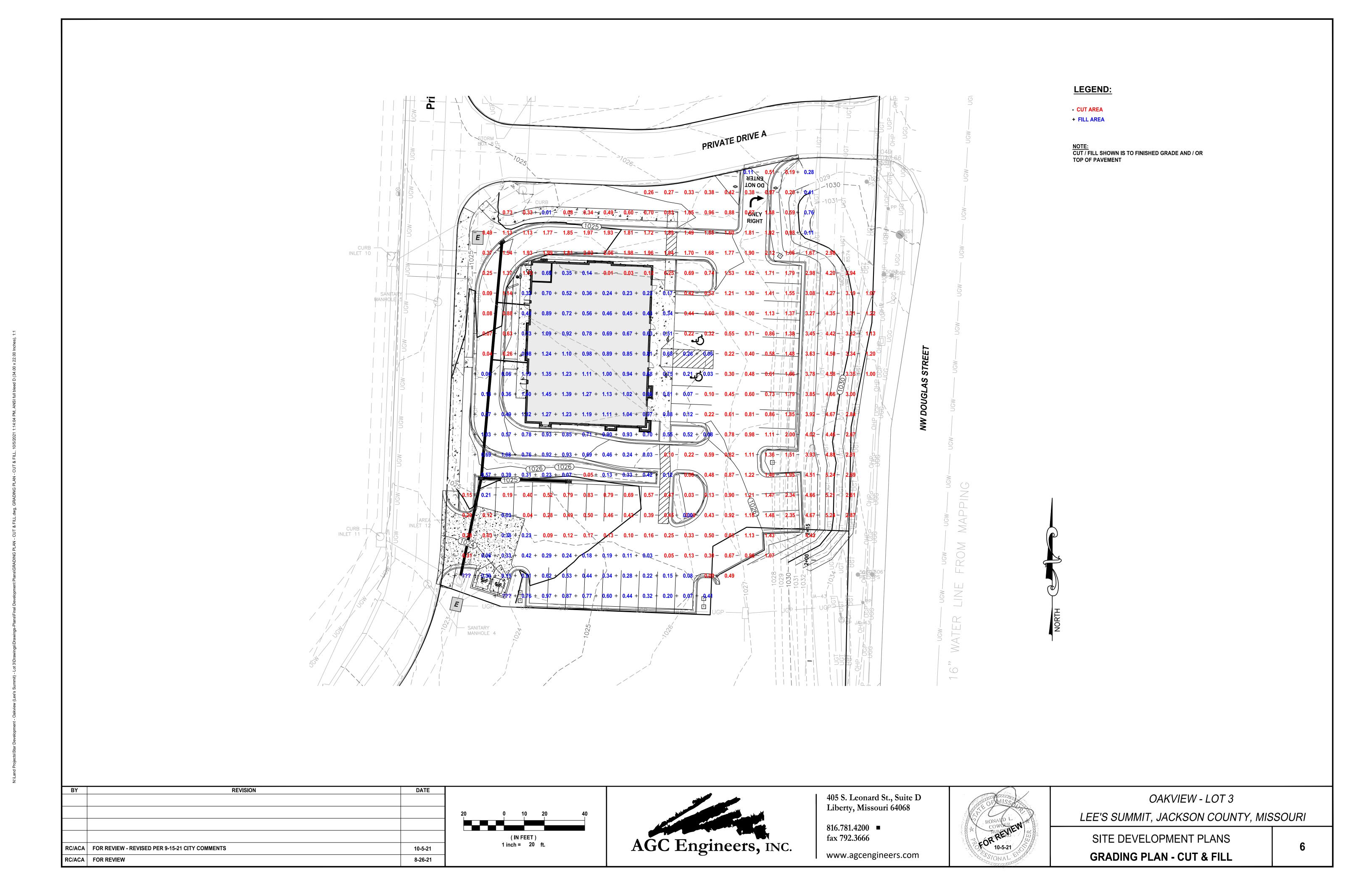
www.agcengineers.com

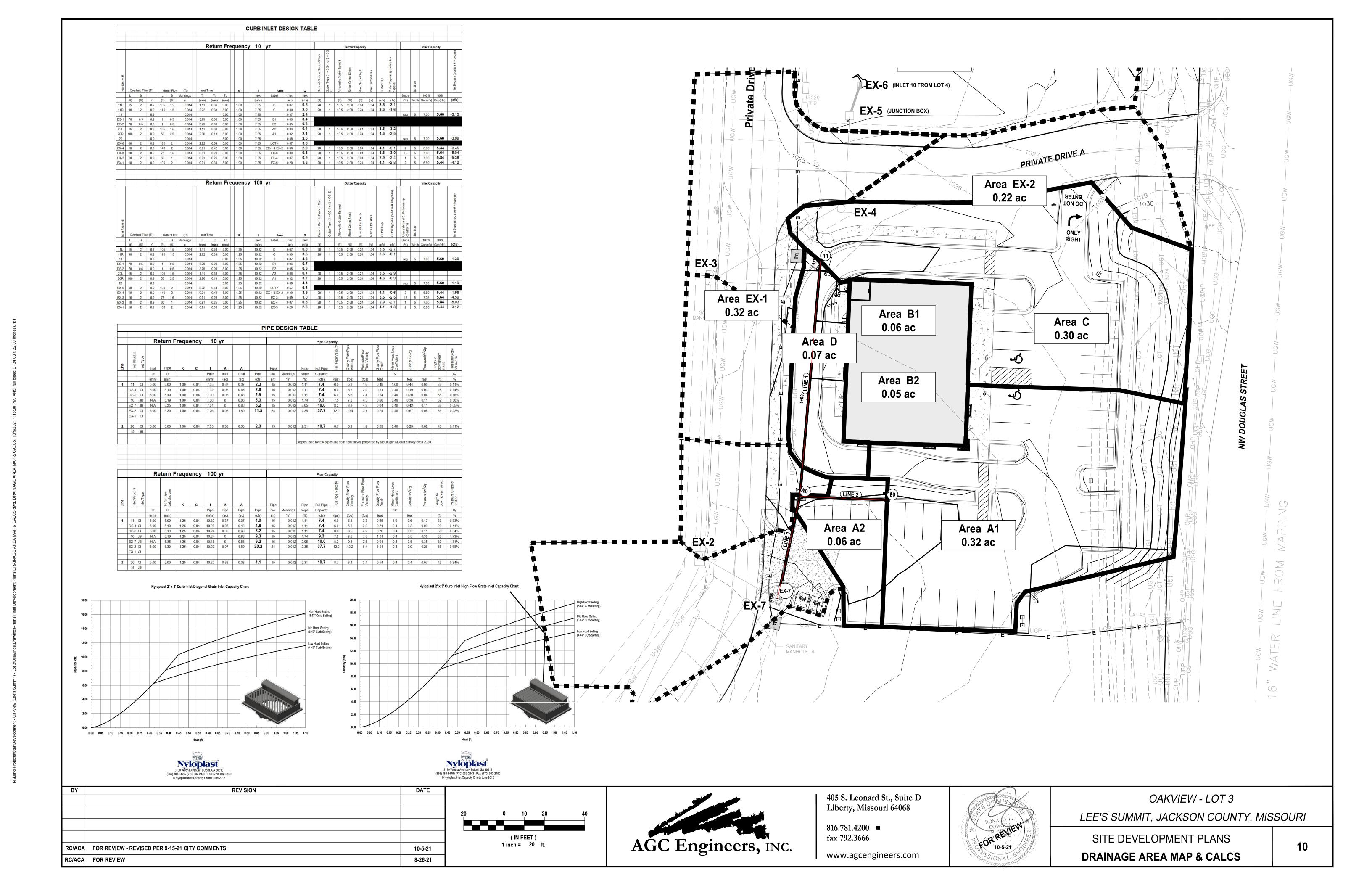


OAKVIEW - LOT 3	
EE'S SUMMIT, JACKSON COUNTY, MISSOURI	

SITE DEVELOPMENT PLANS

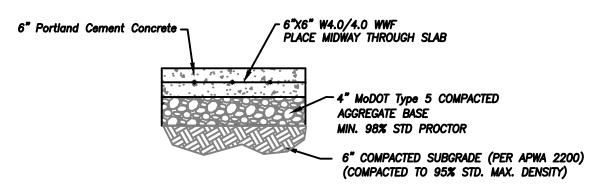
GRADING & EROSION CONTROL PLAN



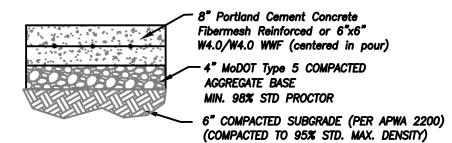


BY

RC/ACA FOR REVIEW

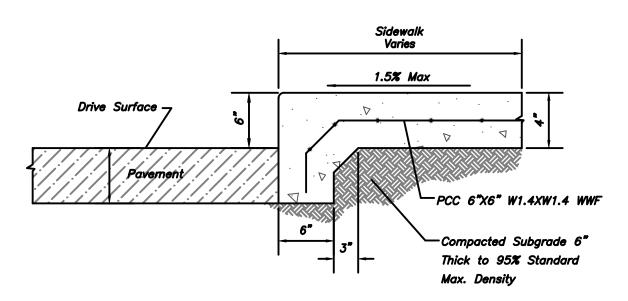


CONCRETE SECTION NOT TO SCALE



REINFORCED CONCRETE PAVEMENT SECTION @ TRASH ENCLOSURE AND DRIVE THRU

NOT TO SCALE



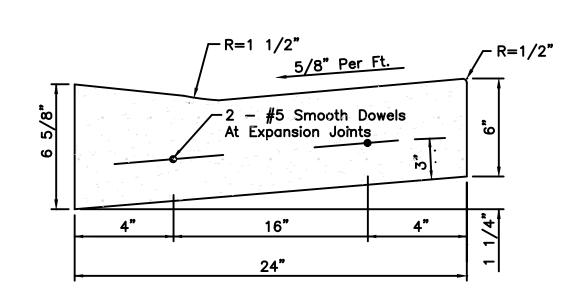
INTEGRAL SIDEWALK / CURB DETAIL

VARIABLE

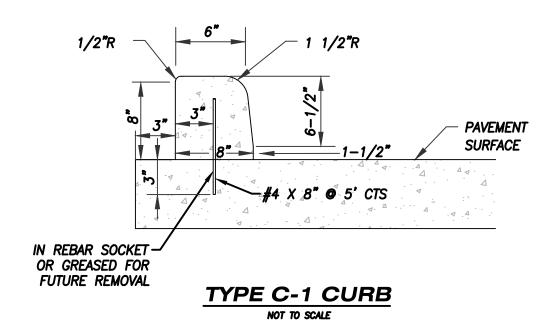
VARIABLE (5' TYP)

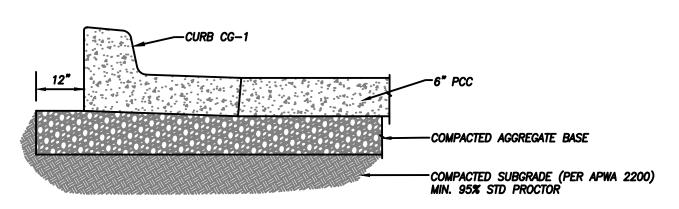
RC/ACA FOR REVIEW - REVISED PER 9-15-21 CITY COMMENTS

NOT TO SCALE



VALLEY GUTTER NOT TO SCALE





- EXTEND BASE SECTION 12" BEHIND CURB
- SEE PAVEMENT SECTIONS FOR TYPE & THICKNESS

- 3" Dome Fill Post With Concrete

Paint (Yellow)

8" Diameter-

– Expansion Material

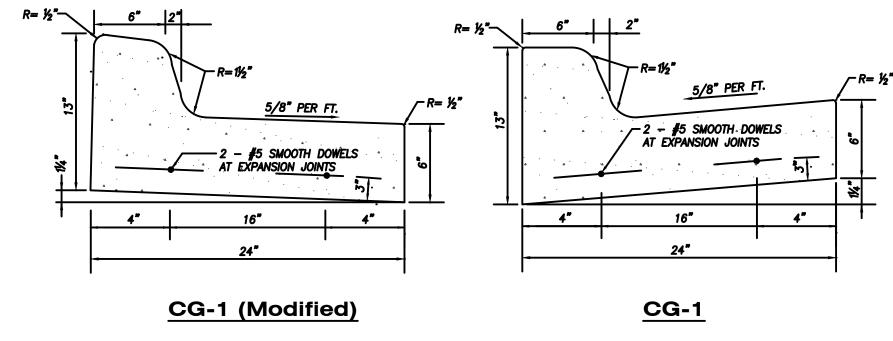
Concrete Footing

Schedule 40 Steel Pipe

─ Grade Surface

CURB & GUTTER BASE SECTION

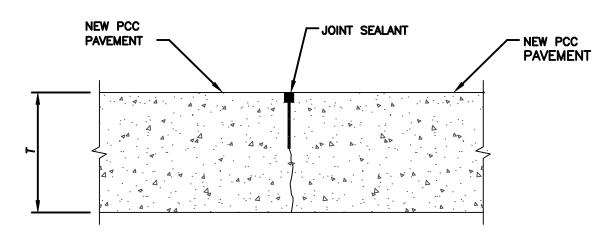
NOT TO SCALE



- 1. EXPANSION JOINTS SHALL BE FORMED BY A ONE—HALF (1/2) INCH THICK PREFORMED JOINT FILLER, CUT TO THE CONFIGURATION OF THE FULL SIZE OF THE CURB AND GUTTER SECTION AND BEING SECURED SO THAT THEY ARE NOT MOVED BY DEPOSITING AND COMPACTING THE CONCRETE AT THESE JOINTS. THE EDGES OF THESE JOINTS SHALL BE ROUNDED WITH AN EDGING TOOL ONE—EIGHTH
- 2. EXPANSION JOINTS SHALL BE PLACED WHERE CURB AND GUTTER ABUTS OTHER STRUCTURES AND AT ALL TANGENT POINTS TO CURBS. EXPANSION JOINTS SHALL NOT BE SPACED MORE THAN 50 FEET APART ON STRAIGHT RUNS FOR HAND LAID CURB AND GUTTER AND NOT MORE THAN 100 FEET APART FOR MACHINE LAID CURB AND GUTTER PROVIDED 3/4 INCH THICK JOINT FILLER IS USED.
- 3. CONTRACTION JOINTS SHALL BE CONSTRUCTED BY SAWING THROUGH THE CURB AND GUTTER TO A DEPTH OF NOT LESS THAN ONE AND ONE—FOURTH (1 1/4) INCHES BELOW THE SURFACE AND TO A WIDTH NOT TO EXCEED THREE-EIGHTHS (3/8) INCH OR THEY MAY BE FORMED BY INSERTING A REMOVABLE METAL TEMPLATE IN THE FRESH CONCRETE, OR BY OTHER METHODS APPROVED BY THE ENGINEER. SEALING OF JOINTS IS NOT REQUIRED. CONTRACTION OR CONSTRUCTION JOINTS SHALL BE LOCATED APPROXIMATELY 10 FEET APART.
- 4. EXTEND 4" THICK AGGREGATE BASE MINIMUM 12" BEHIND BACK OF CURB.

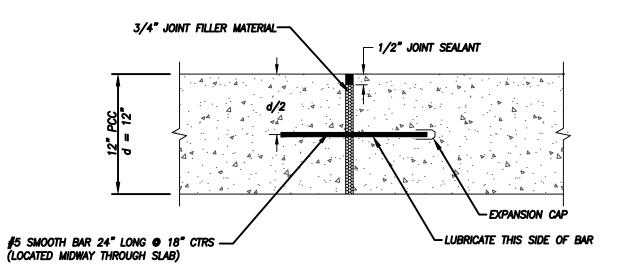
CURB AND GUTTER

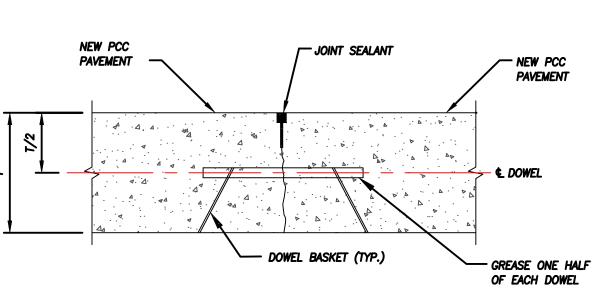
NOT TO SCALE



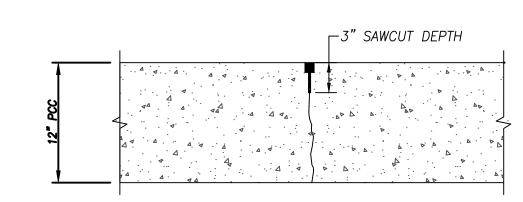
UNDOWELED CONTRACTION JOINT

NOT TO SCALE





EXPANSION JOINT DETAIL



DOWELED CONTRACTION JOINT

NOT TO SCALE

SAWCUT DEPTH DETAIL

EXISTING PCC **PAVEMENT**

TAPER CURB TO 0"

CURB TERMINATION DETAIL

NOT TO SCALE

NEW PCC PAVEMENT

DOWELED CONSTRUCTION JOINT

NOT TO SCALE

DOWELS SHALL BE CAST INTO NEW PAVEMENT OR PLACED IN HOLES DRILLED PERPENDICULAR TO EDGE SURFACE IN THE EXISTING CONCRETE. FIRMLY SECURED WITH EPOXY GROUT ONCE LEVELED. PRIOR TO PLACING PROPOSED CONCRETE, HALF OF THE EXPOSED DOWELS SHALL BE GREASED.

SIDEWALK DETAILS

2. THE SIDEWALK SHALL BE MARKED OFF INTO SQUARE SECTIONS (PICTURE FRAMED) BY CONTRACTION JOINTS. CONTRACTION JOINTS SHALL BE

4. EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALK ABUTS OTHER STRUCTURES AND SHALL NOT BE SPACED MORE THAN 50 FT APART ON STRAIGHT RUNS FOR HAND LAID SIDEWALK AND NOT MORE THAN 100 FT APART ON STRAIGHT RUNS FOR MACHINE LAID SIDEWALKS.

5. SIDEWALK TO BE INSTALLED ON COMPACTED SUBGRADE (MIN 95% STD PROCTOR). CONTRACTOR MAY ELECT TO INSTALL AGGREGATE LEVEL COURSE.

3. EXPANSION JOINTS SHALL BE FORMED BY A ONE—HALF (1/2) INCH THICK PREFORMED JOINT FILLER, EXTENDING THE FULL DEPTH OF THE SLAB, AND SECURED SO THAT THEY ARE NOT MOVED BY DEPOSITING AND COMPACTING THE CONCRETE AT THESE JOINTS.

(4" thick PCC) 1' TYP

ONE-EIGHTH (1/8) INCH WIDE BY ONE (1) INCH DEEP AND SHALL BE FORMED BY TOOLING.

REVISION

NOTES:
1. JOINTS SHALL BE FORMED AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK AND TO THE DEPTHS INDICATED BELOW.

T1/2" EXPANSION JOINT

6' SIDEWALK

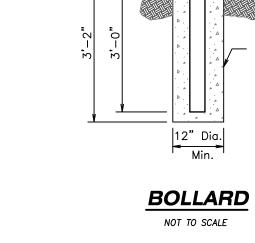
SLOPE 1.5% MAX TOWARDS CURB

DATE

10-5-21

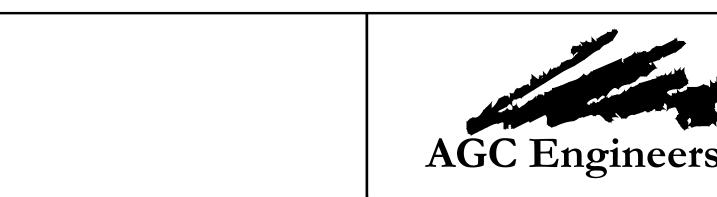
8-26-21

NOT TO SCALE



NOT TO SCALE

CONCRETE JOINT DETAILS NOT TO SCALE



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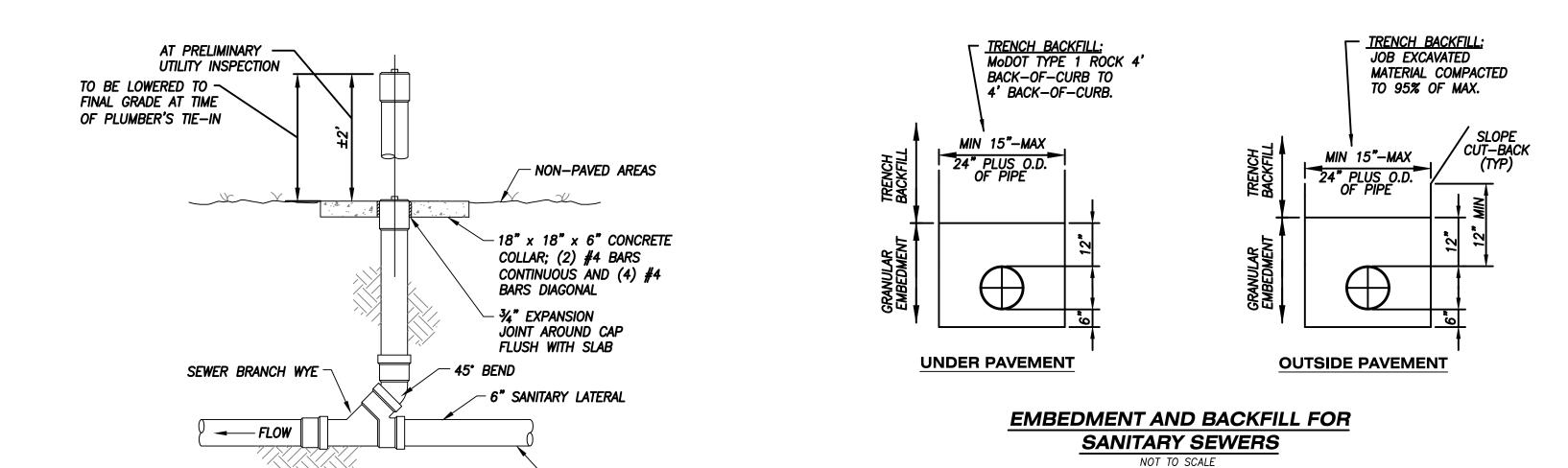
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OAKVIEW - LOT 3 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SITE DEVELOPMENT PLANS

DETAILS



COMPACTED TRENCH -

BACKFILL 95% OF STANDARD PROCTOR.
UNDER PAVEMENT OR

FUTURE PAVEMENT

USE COMPACTED GRANULAR BACKFILL

GRANULAR BEDDING & BACKFILL

SURFACE LIVE LOADING CONDITION H25 (FLEXIBLE PAVEMENT) H25 (RIGID PAVEMENT)

E80 RAILWAY

MINIMUM SLOPE

CLEAN-OUT DETAIL NOT TO SCALE

1. <u>FOUNDATION</u>: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION: AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING WOVEN

2. <u>BEDDING</u>: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4"; FOR 4"-24" DIA. HDPE; 6" FOR 30"-60" DIA. HDPE.

3. <u>Haunching and Initial Backfill</u>: Suitable Material Shall be class I, II or III and Installed as required in ASTM D2321, latest edition.

4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS: MIN. RECOMMENDED TRENCH WIDTH HEAVY CONSTRUCTION 48" 5. <u>MINIMUM COVER</u>: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF THE PIPE TO THE GROUND SURFACE.

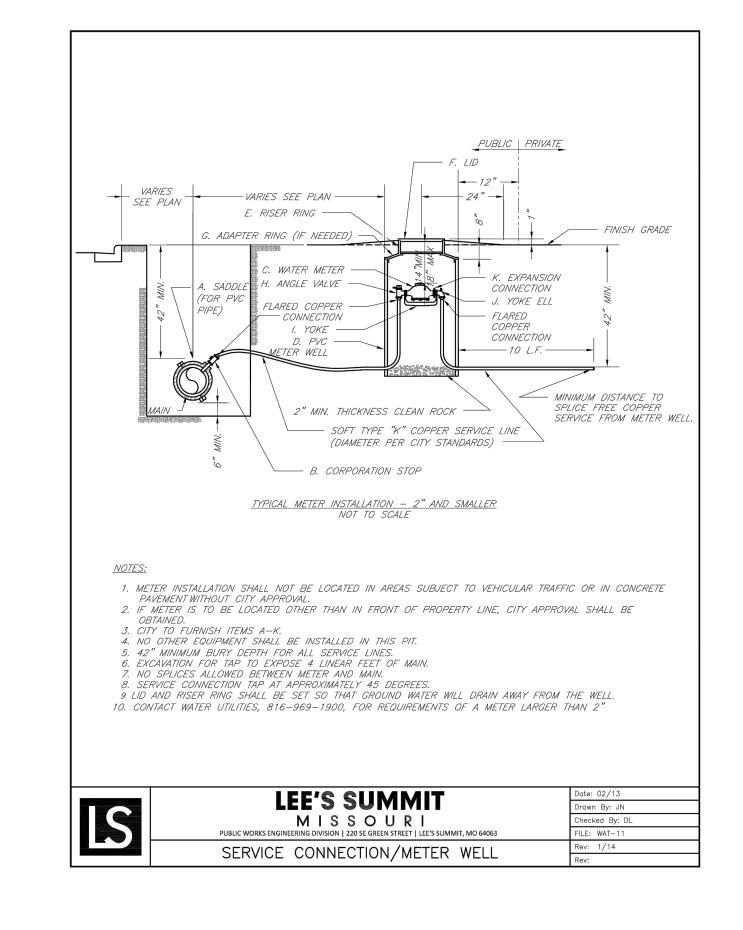
HDPE (HIGH DENSITY POLYETHYLENE)

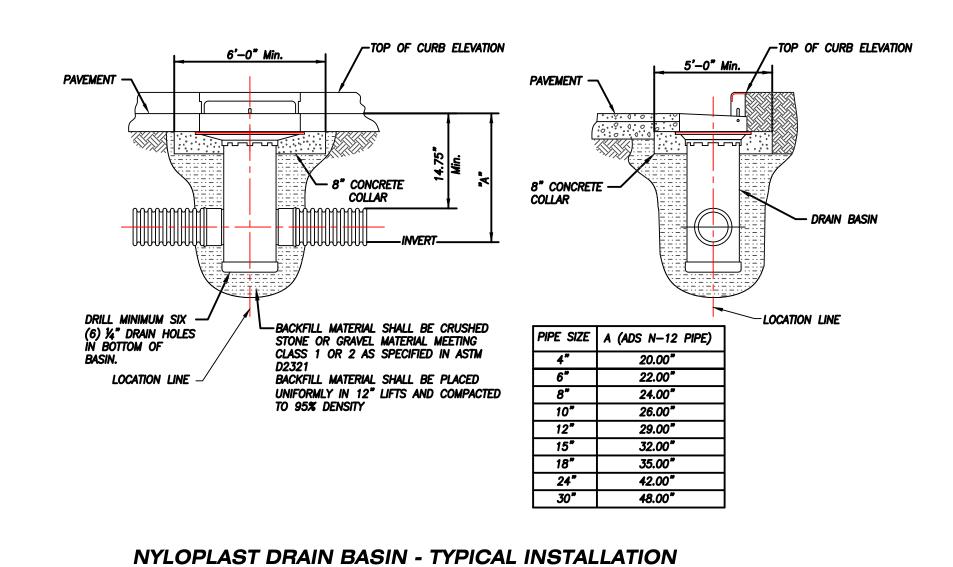
PIPE INSTALLATION DETAIL NOT TO SCALE

TRENCH WALL (TYP.)

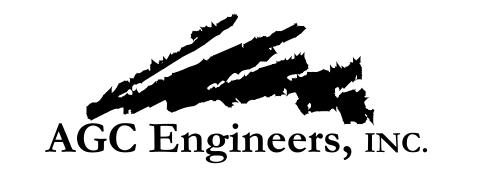
MINIMUM RECOMMENDED COVER 12" (24" FOR 60" PIPE)*

12" (24" FOR 60" PIPÉ)





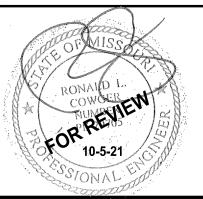
BY	REVISION	DATE
RC/ACA	FOR REVIEW - REVISED PER 9-15-21 CITY COMMENTS	10-5-21
RC/ACA	FOR REVIEW	8-26-21



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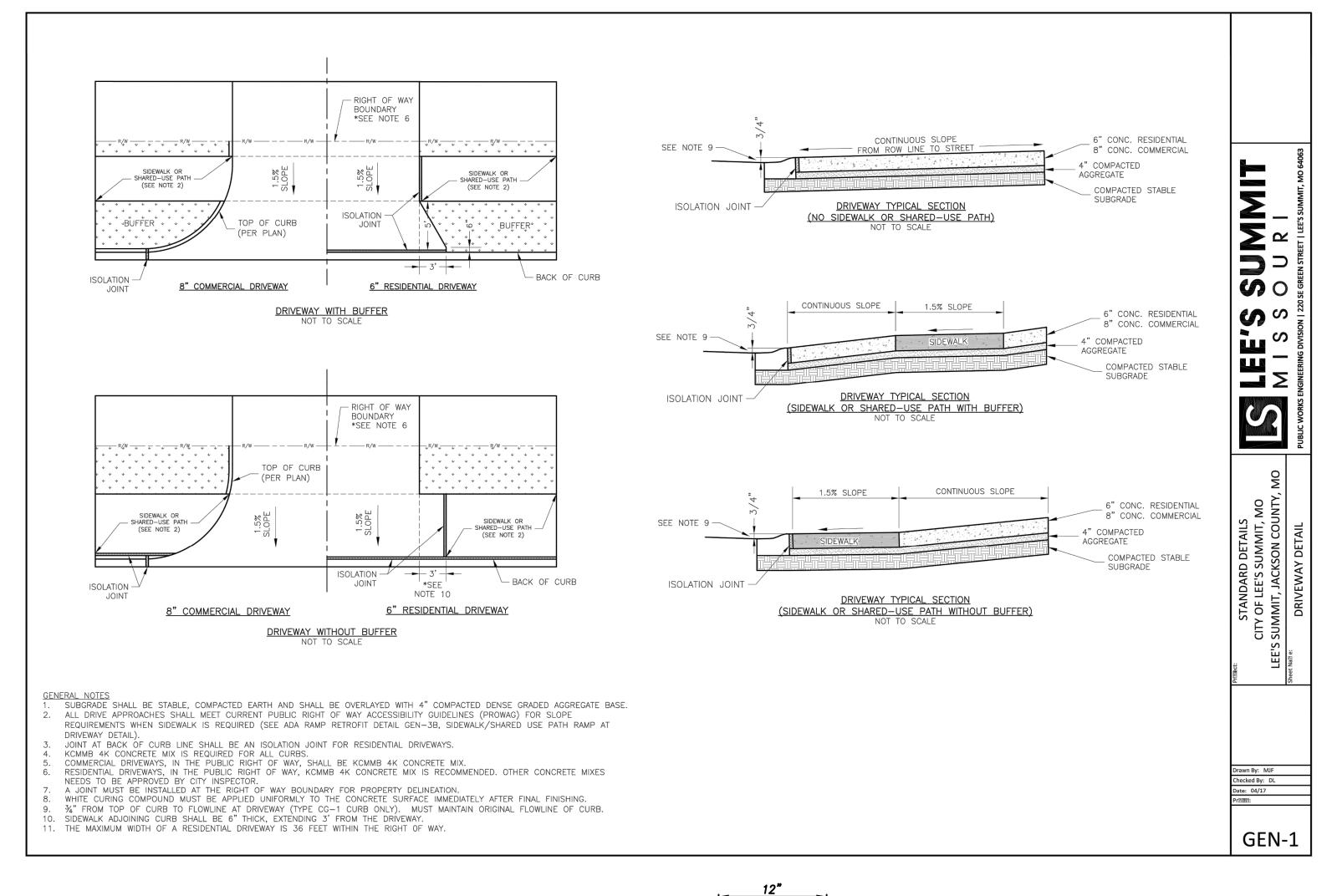
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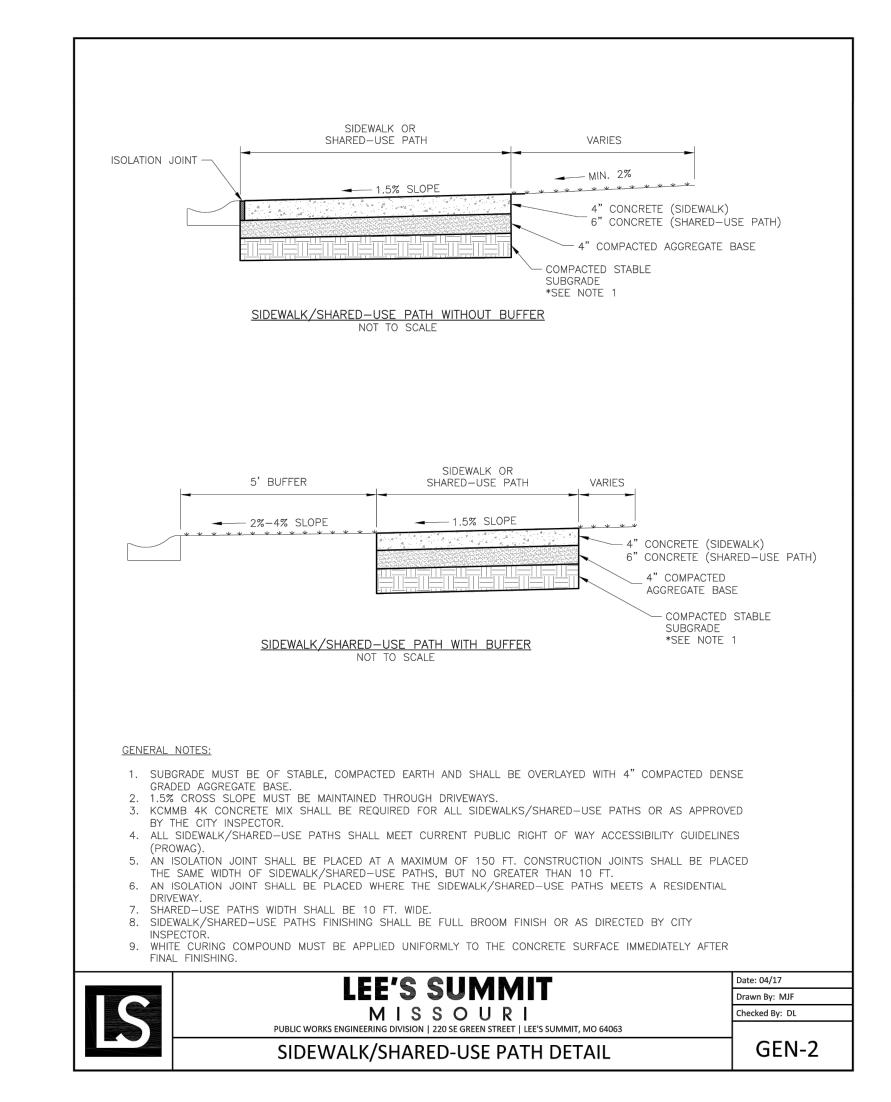
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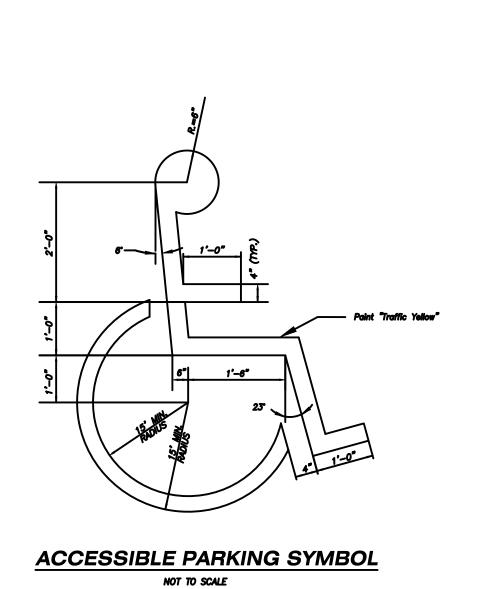


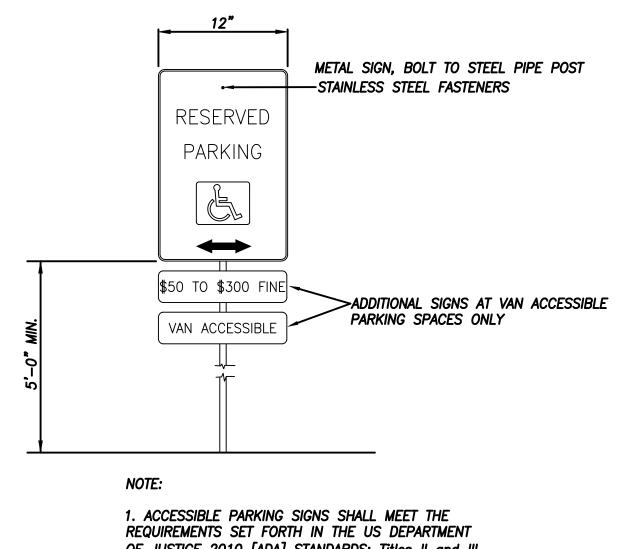
OAKVIEW - LOT 3 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SITE DEVELOPMENT PLANS **DETAILS**





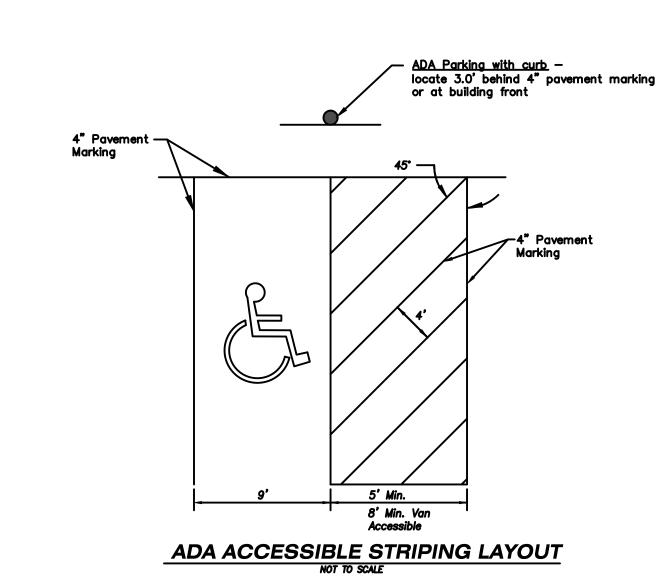




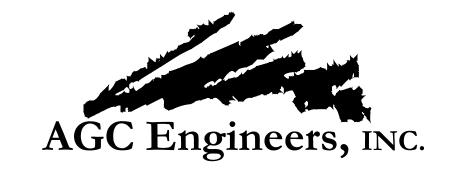
1. ACCESSIBLE PARKING SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE US DEPARTMENT OF JUSTICE 2010 [ADA] STANDARDS: Titles II and III.

2. PROVIDE SIGN AT THE HEAD OF EACH HANDICAPPED ACCESSIBLE PARKING STALL.

HANDICAP SIGN
NOT TO SCALE



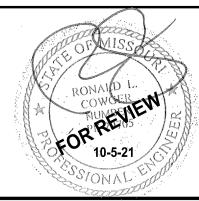
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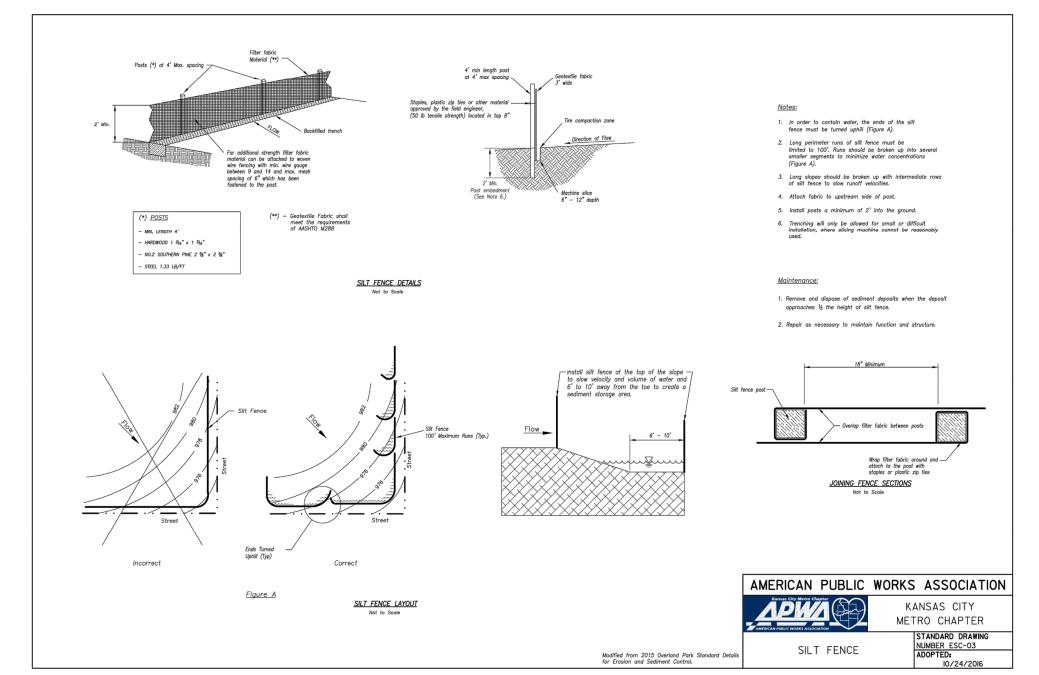
816.781.4200 **a** fax 792.3666

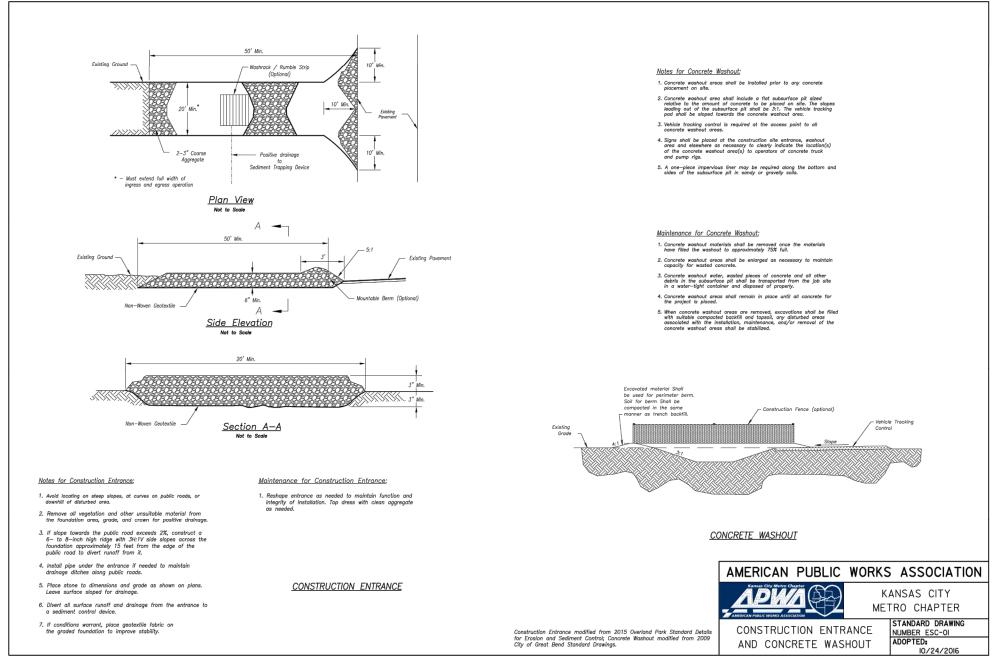
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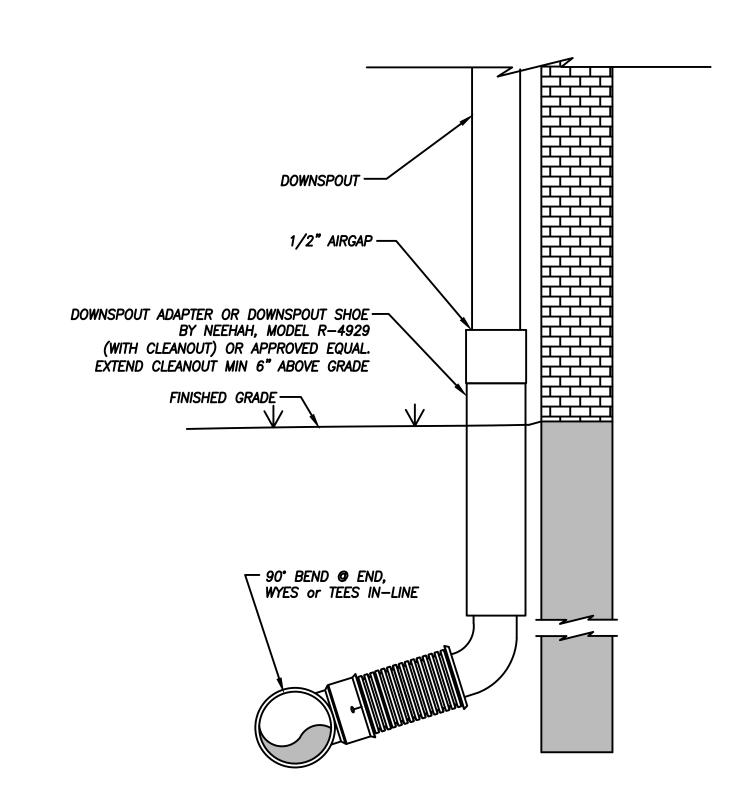


OAKVIEW - LOT 3 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SITE DEVELOPMENT PLANS **DETAILS**

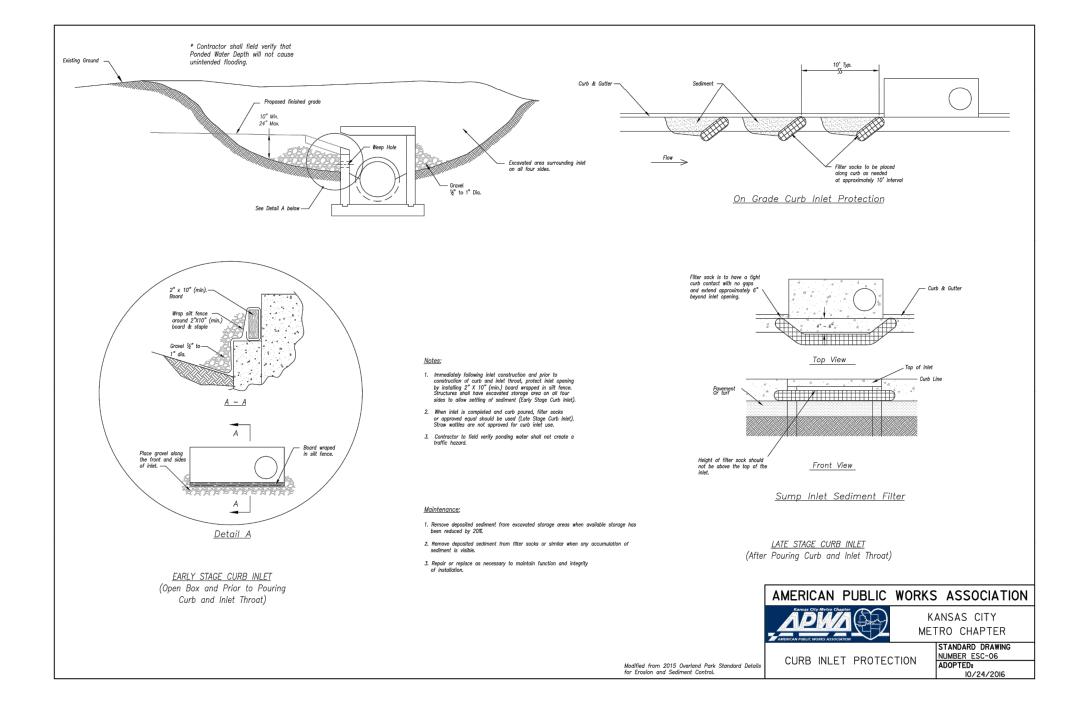




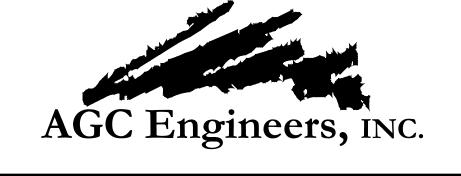


DOWNSPOUT DRAIN DETAIL

NOT TO SCALE



BY	REVISION	DATE	
RC/ACA	FOR REVIEW - REVISED PER 9-15-21 CITY COMMENTS		
RC/ACA	FOR REVIEW		



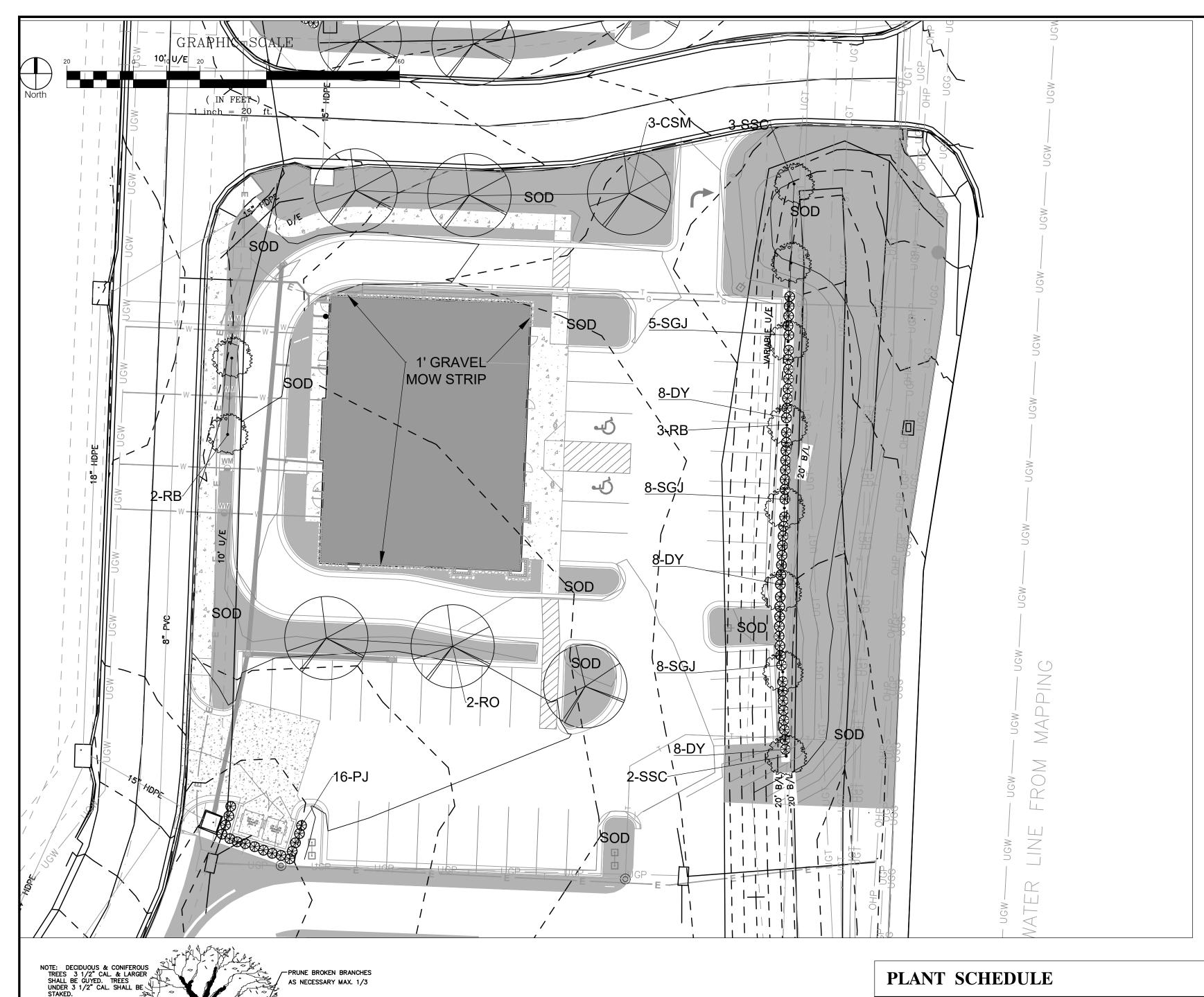
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OAKVIEW - LOT 3 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SITE DEVELOPMENT PLANS **DETAILS**



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9.28.2021

IRRIGATION PERFORMANCE SPECIFICATION:

THE FOLLOWING CRITERIA SHALL BE CONSIDERED MINIMUM STANDARDS FOR DESIGN

- AND INSTALLATION OF LANDSCAPE IRRIGATION SYSTEM: GENERAL - IRRIGATION SYSTEM TO INCLUDE DRIP IRRIGATION OF SHRUB BEDS ADJACENT TO BUILDINGS, SPRAY HEADS IN THE PARKING ISLANDS, AND ROTORS AROUND THE PERIMETER OF THE PARKING LOTS. HEADS SHALL THROW AWAY
- FROM BUILDING AND AVOID SPRAYING OVER SIDEWALKS. IRRIGATION SYSTEM SHALL CONFORM TO ALL INDUSTRY STANDARDS AND ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING DESIGN AND INSTALLATION.
- WATER LINE TYPE, SIZE LOCATION, PRESSURE AND FLOW SHALL BE FIELD

VERIFIED PRIOR TO SYSTEM DESIGN AND INSTALLATION.

- ALL MATERIALS SHALL BE FROM NEW STOCK FREE OF DEFECTS AND CARRY A MINIMUM ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT ALL SYSTEM COMPONENTS OPERATE WITHIN THE GUIDELINES ESTABLISHED
- BY THE MANUFACTURER. LAWN AREA AND SHRUB BEDS SHALL BE ON SEPARATE CIRCUITS. PROVIDE WATER TAP, METER SET, METER VAULT AND ALL OTHER OPERATIONS NECESSARY TO PROVIDE WATER FOR IRRIGATION SHALL CONFORM TO LOCAL
- WATER GOVERNING AUTHORITY GUIDELINES AND STANDARDS. BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- IRRIGATION CONTROLLER TO BE LOCATED IN UTILITY ROOM INSIDE BUILDING, AS IDENTIFIED BY OWNER.
- 10. IRRIGATION CONTROLLER STATIONS SHALL BE LABELED TO CORRESPOND WITH THE CIRCUIT IT CONTROLS.
- 11. CONTRACTOR SHALL PROVIDE TO THE OWNER WRITTEN OPERATION INFORMATION FOR ALL SYSTEM COMPONENTS.
- 12. CONTRACTOR SHALL PROVIDE TO THE OWNER ALL KEYS, ACCESS TOOLS, WRENCHES AND ADJUSTING TOOLS NECESSARY TO GAIN ACCESS, ADJUST AND CONTROL THE SYSTEM.
- 13. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 14. AN AUTOMATIC RAIN SHUT-OFF OR MOISTURE DEVICE SHALL BE INSTALLED. 15. INSTALL SCHEDULE 40 PVC SLEEVES UNDER ALL CURBS, PAVING AND
- SIDEWALKS. SLEEVES TO BE TWICE THE SIZE OF THE LINE IT HOUSES. 16. INSTALL MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN TO ALLOW GRAVITY DRAINING OF MAIN DURING WINTER MONTHS. PROVIDE
- OF LATERAL AND MAIN LINES. 17. ZONES OR NOZZLES SHALL BE DESIGNED WITH MATCHED PRECIPITATION RATES.

QUICK COUPLERS AT MULTIPLE LOCATIONS TO ALLOW FOR EASY "BLOWING OUT"

- 18. MINIMUM LATERAL DEPTH IS 15" AND MAIN DEPTH IS 18". 19. SUBMIT DESIGN DRAWING WITH BID TO ALLOW OWNER TO EVALUATE SYSTEM.
- INCLUDE CUT SHEETS OF ALL COMPONENTS AND ZONE TABLE ILLUSTRATING FLOWS AND ANTICIPATED PRESSURE AT FURTHEST HEAD.
- 20. AN "AS-BUILT" SCALED DRAWING SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AS CONSTRUCTED LOCATION OF ALL COMPONENTS
 - COMPONENT NAME, MANUFACTURER, MODEL INFORMATION, SIZE AND
- PIPE SIZE AND QUANTITY
- INDICATION OF SPRINKLER HEAD SPRAY PATTERN
- CIRCUIT IDENTIFICATION SYSTEM DETAILED METHOD OF WINTERIZING SYSTEM

SUBMIT AS-BUILT DRAWING IN FULL SIZE DRAWING FORM AS WELL AS PDF ELECTRONIC FORMAT. (SCANNING FULL SIZE COPY OF PLAN IS ACCEPTABLE IF IT CAN BE PRINTED TO SCALE)

SIZE/REMARKS

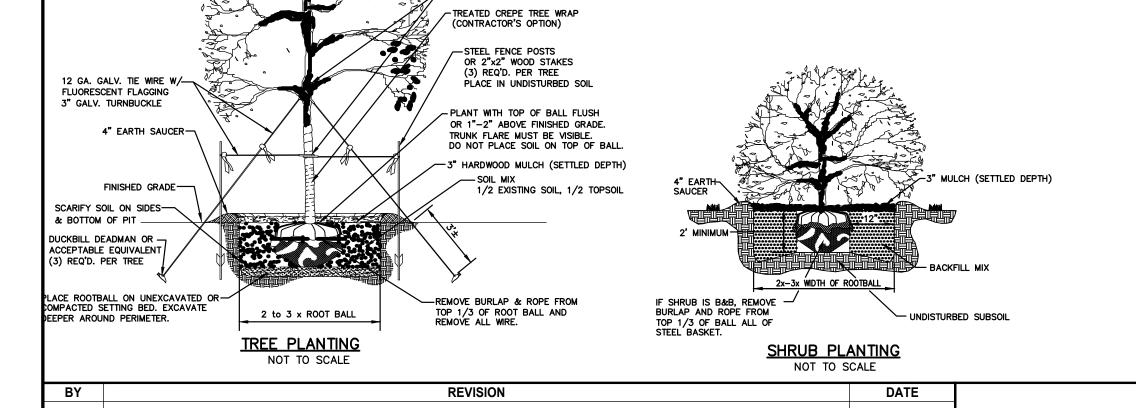
LANDSCAPING NOTES:

ON THE PLAN.

- 1. LOCATE ALL UTILITIES BEFORE LANDSCAPE CONSTRUCTION BEGINS. NOTIFY OWNER REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES.
- 3. ALL EXTERIOR GROUND WITHIN THE LIMITS OF THE CONTRACT, EXCEPT FOR SURFACES OCCUPIED BY BUILDINGS, STRUCTURES, PAVING, AND AS DIRECTED ON THE DRAWINGS AS UNDISTURBED, SHALL BE FILLED WITH SIX INCHES
- 4. ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER PLANTING SHALL BE SODDED. SOD SHALL CONSIST OF 90% TURF TYPE TALL FESCUE 10% BLUEGRASS.
- 5. WEED MAT SHALL BE USED UNDER ALL PLANTING AREAS NOT TO BE SODDED OR AS DIRECTED ON THE DRAWINGS. THE MAT SHALL BE COVERED WITH MULCH AND SECURED IN-PLACE BY A SOIL ANCHOR.
- 6. QUANTITIES INDICATED IN PLANT LIST ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR PLANT QUANTITIES AS ILLUSTRATED
- 7. SHREDDED HARDWOOD MULCH SHALL BE USED AS THREE INCH (3") TOP DRESSING IN ALL PLANT BEDS AND AROUND ALL TREES. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF SAUCER OR LANDSCAPE ISLAND (SEE PLANTING DETAILS).
- 8. PROVIDE STEEL EDGING AROUND ALL SHRUB AND GROUNDCOVER BEDS. STEEL EDGING SHALL BE 1/8" x 4" WITH CLIPS AND REBAR STAKES FIVE
- 9. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME-RELEASE FERTILIZER(3-4 SLOW-RELEASE TABLETS/PELLETS)
- 10. IF LEANING OCCURS WITHIN ONE YEAR, TREES SHALL BE RE-STAKED (SEE PLANTING DETAILS).
- 11. CONTRACTOR SHALL STAKE ALL PLANT MATERIALS PRIOR TO INSTALLATION FOR THE PURPOSE OF DETERMINING CONFLICTS WITH ROCK, UTILITIES, ETC. NO PLANTS CAN BE PLANTED DIRECTLY ON ROCK OR UTILITIES. NOTIFY ARCHITECT/ENGINEER/OWNER AT ONCE IF ANY CONFLICTS OCCUR. CONTRACTOR WILL BE REQUIRED TO ADJUST PLANT LOCATIONS AT NO ADDITIONAL COST.
- 12. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL SOD UNTIL ROOTS HAVE KNOTTED INTO SOIL AND OWNER HAS OCCUPIED THE BUILDING.
- 13. PROVIDE "GATOR" BAGS ON ALL TREES. REFILL AS NECESSARY UNTIL OWNER OCCUPIES THE BUILDING.
- 14. PROVIDE ROLLED EROSION CONTROL MAT, NORTH AMERICAN GREEN SC150BN
- OR APPROVED EQUAL OVER ALL NATIVE GRASS SEEDED AREAS.
- 15. 12" GRAVEL MOW STRIP PROVIDE AND INSTALL: ¼" x 5" STEEL EDGING (SURE-LOC OR EQ.). ANCHOR IN PLACE WITH STAKES PER MANUFACTURER. PROVIDE AND INSTALL HEAVY DUTY WEED BARRIER FABRIC UNDER GRAVEL. PROVIDE AND INSTALL 3" DEPTH OF 1"-2" MULTI-COLORED WASHED RIVER GRAVEL, SUBMIT COLOR SAMPLE TO OWNER FOR APPROVAL.

LANDSCAPE WORKSHEET

	ORDINANCE REQUIRMENT	REQUIRED FOR THIS SITE	(EXISTING AND NEW LANDSCAPE)
8.720.A.1 Street Frontage Trees (NW Douglas)	1 tree per 30 feet of street frontage	216 ft. of street frontage/30= 8 trees required	8 trees
8.720.A.2 Street Frontage Green Strip (NW Douglas)	20 feet	20 feet	20 feet
8.720.A.3 Street Frontage Shrubs (NW Douglas)	1 shrub per 20 feet of street frontage	216 ft. of street frontage/20= 11 shrubs required	11 shrubs
8.790.B.1 Open Yard Shrubs	2 shrubs per 5000 sq. ft. of total lot area excluding building footprint.	17,235 sq. ft./5000 x 2=6.9 shrubs.	7 Upright Junipers
8.790.B.2 Open Groundcover	Open area not covered with other materials shall be covered with sod.		Sod
8.790.B.3 Open Yard Trees	1 tree per 5000 sq. ft. of total lot area excluding building and parking.	18,736 sq. ft./5000=3.7 trees.	4
8.810.A Parking Lot Landscape Islands	5% of entire parking area (spaces, aisles & drives); 1 island at end of every parking bay, min. 9' wide	17,235 sq.ft. of parking area x .05 = 862 sq.ft. of landscape parking lot islands required	1,052 sq.ft.
8.820 Screening of Parking Lot, NW Douglas	12 shrubs per 40 linear feet (must be 2.5 feet tall; berms may be combined with shrubs)	120 linear feet/40 x 12 36 shrubs required	36 shrubs



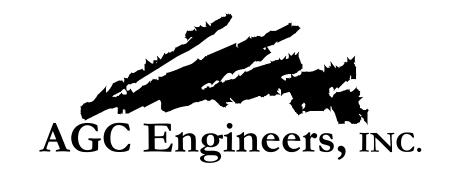
AS NECESSARY MAX. 1/3

VSR

CITY COMMENTS

DEVELOPMENT PLAN

TREES					
CSM	3	ACER SACHARUM 'AUTUMN SPLENDOR'	CADDO SUGAR MAPLE	3" CAL. B&B	
RO	2	QUERCUS RUBRA	RED OAK	3" CAL. B&B	
SSC	5	MALUS 'SPRING SNOW'	SPRING SNOW CRAB	2" CAL. B&B	
RB	5	CERCIS CANADENSIS 'OKLAHOMA'	OKLAHOMA RED BUD	2" CAL. B&B	
PJ	16	JUNIPEROUS CHINENSIS 'PERFECTA'	PERFECTA JUNIPER	6' HT. B&B	
SHRUBS/GRASSES/GROUNDCOVER					
SGJ	21	JUNIPEROUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	5 GAL	
DY	24	TAXUS x MEDIA 'DENSIFORMIS'	DENSIFORMIS YEW	5 GAL	
				'	



BOTANICAL NAME

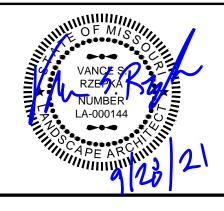
QTY.

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COMMON NAME

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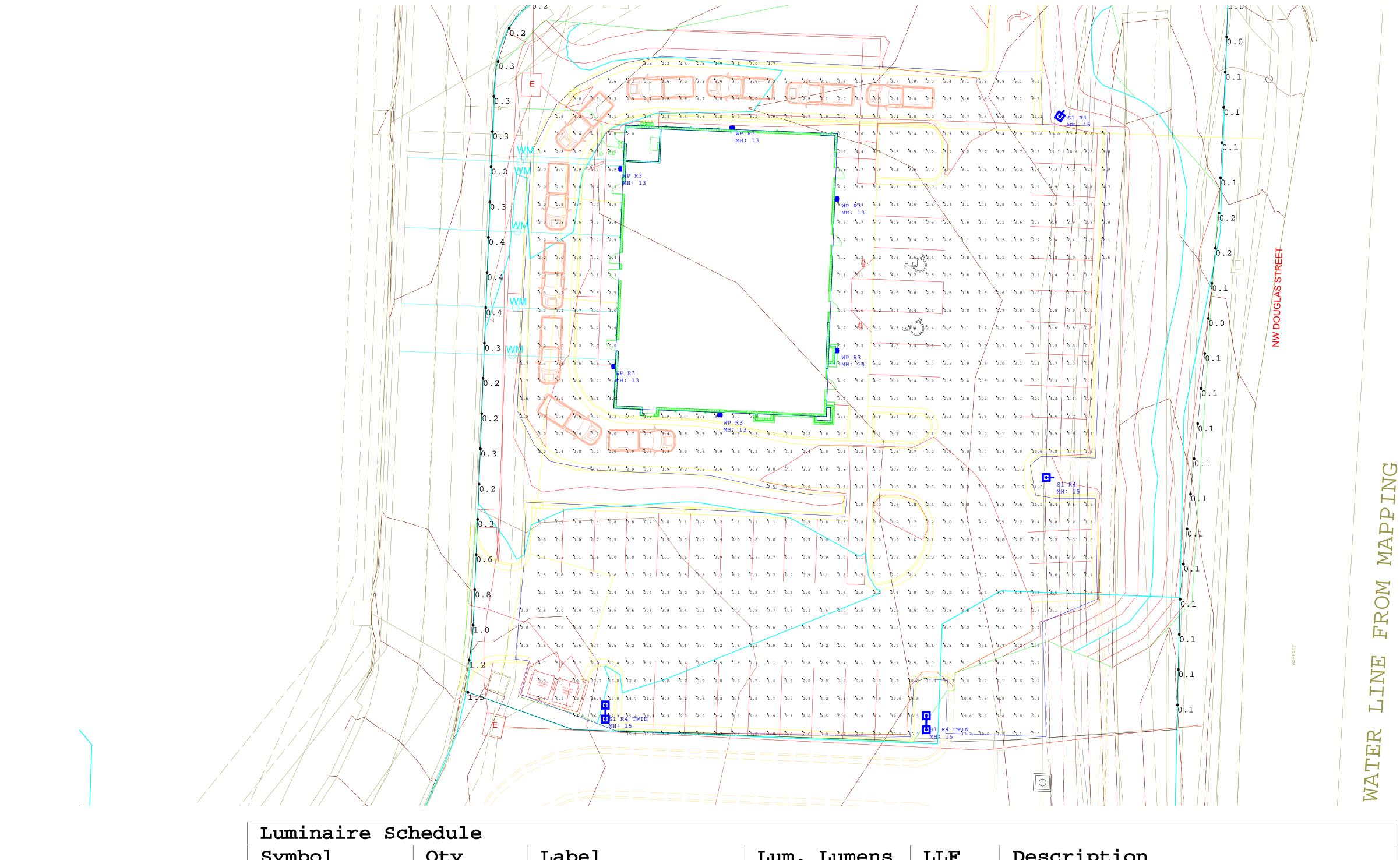
OAKVIEW - LOT 3

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SITE DEVELOPMENT PLANS LANDSCAPE PLAN

L100

PROPOSED



Luminaire	Schedule				
Symbol	Qty	Label	Lum. Lumens	LLF	Description
-	2	S1 R4	16573	0.950	RSX1 LED P4 40K R4
→	2	S1 R4 TWIN	16573	0.950	(2) RSX1 LED P4 40K R4
	6	WP R3	7524	0.950	WDGE3 LED P1 70CRI R3 40K

Calculation Summary											
Label	Units	Avg	Max	Min	Avg/Min	Max/Min					
PARKING LOT_Planar	Fc	3.63	17.3	0.4	9.08	43.25					
Property Line	FC	0.22	1.5	0.0	N.A.	N.A.					



ψ		
Date		
#		
Re	visic	ns
Drawn By: Checked By:	Date:8/22/2021	Scale:

Oakview Lot 3
Lees Summit, Mo

Page M of 1



RSX1 LED Area Luminaire













Specifications

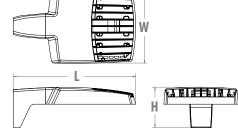
EPA (ft²@0°): 0.57 ft² (0.05 m²)

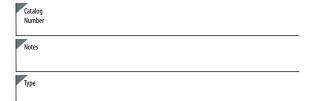
Length: 21.8" (55.4 cm) (SPA mount)

Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm

Weight: 22.0 lbs (10.0 kg)





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

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

RSX1 LED										
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting					
RSX1 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	R2 Type 2 Wide R3 Type 3 Wide R3S Type 3 Short R4 Type 4 Wide R4S Type 4 Short R5 Type 5 Wide 1 R5S Type 5 Short 1 AFR Automotive Front Row AFRR90 Automotive Front Row Right Rotated AFRL90 Automotive Front Row Left Rotated	MVOLT (120V-277V) ² HVOLT (347V-480V) ³ XVOLT (277V-480V) ⁴ (use specific voltage for options as noted) 120 ³ 277 ⁵ 208 ³ 347 ⁵ 240 ³ 480 ⁵	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) 6 WBA Wall bracket 1 WBASC Wall bracket with surface conduit box AASP Adjustable tilt arm square pole mounting 6 AARP Adjustable tilt arm round pole mounting 6 AAWB Adjustable tilt arm with wall bracket 6 AAWSC Adjustable tilt arm wall bracket and surface conduit box 6					

Options			Finish	
Shipped Ins HS PE PEX PER7 CE34 SF DF SPD20KV FAO DMG	House-side shield ⁷ Photocontrol, button style ^{8,9} Photocontrol external threaded, adjustable ^{9,10} Seven-wire twist-lock receptacle only (no controls) ^{9,11,12,13} Conduit entry 3/4" NPT (Qty 2) Single fuse (120, 277, 347) ⁵ Double fuse (208, 240, 480) ⁵ 20KV Surge pack (10KV standard) Field adjustable output ^{9,13} 0-10V dimming extend out back of housing for external control (control ordered separate) ^{9,13}	*Standalone and Networked Sensors/Controls (factory default settings, see table page 9) NLTAIR2	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Textured Dark Bronze Textured Black Textured Natural Aluminum Textured White



Ordering Information

Accessories

RSX1HS RSX1 House side shield (includes 1 shield)

RSX1HSAFRR U RSX1 House side shield for AFR rotated optics (includes 1 shield)

External glares hield (specify finish) RSX1EGS (FINISH) U RSX1EGFV (FINISH) U External glare full visor (specify finish)

RSXRPA (FINISH) U RSX Universal round pole adaptor plate (specify finish)

RSXWBA (FINISH) U RSX WBA wall bracket (specify finish) 1

RSXSCB (FINISH) U RSX Surface conduit box (specify finish, for use with WBA, WBA not included)

DLL127F 1.5 JU Photocell -SSL twist-lock (120-277V) 18 DLL347F 1.5 CUL JU Photocell -SSL twist-lock (347V) 18 DLL480F 1.5 CUL JU Photocell -SSL twist-lock (480V) 18

DSHORT SBK U Shorting cap 18

NOTES

- Any Type 5 distribution, is not available with WBA.

 MYOLT driver operates on any line voltage from 120-277V (50/60 Hz).

 HYOLT driver operates on any line voltage from 347-480V (50/60 Hz).

 XYOLT driver not available with P1 or P2. XYOLT driver operates on any line voltage from 277V-480V (50/60 Hz). XYOLT not available with fusing (SF or DF) and not available with PE or PEX.

 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.

 Maximum tilt is 90° above horizontal.

 It may be ordered as an accessory.

- ne may be ordered as an accessory.

 Requires MVOLT or 347V.

 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHIN).
- Requires 120V, 208V, 240V or 277V.

- Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.
- For units with option PER7, the mounting must be restricted to +/-45° from horizontal aim per ANSI C136.10-2010. Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN. 13
- 14 Must be ordered with PIRHN.
- Requires MVOLT or HVOLT.

 Must be ordered with NLTAIR2. For additional information on PIRHN 15 16
- Must be ordered with fixture for factory pre-drilling.
 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

External Shields



House Side Shield



External Glare Shield

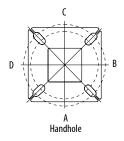


External 360 Full Visor

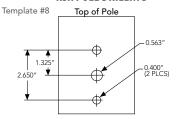
Pole/Mounting Informatiion

Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

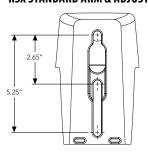
HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM & ADJUSTABLE ARM



Round Tenon Mount - Pole Top Slipfitters

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

Drill/Side Location by Configuration Type

		-			**		-1-	
Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90	
	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D	
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS	

RSX1 - Luminaire EPA

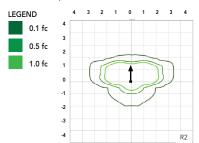
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

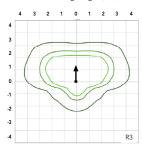
Fixture Quantity & Mo Configuration	unting	Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Type	Tilt	-	-1		<u>.</u>	*	+	•		m
SPA - Square Pole Adaptor		0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
RPA - Round Pole Adaptor	0°	0.62	1.08	1.15	1.62	1.46	2.13	1.36	1.8	2.36
MA - Mast Arm Adaptor		0.49	0.95	0.89	1.36	1.2	1.87	1.23	1.54	2.1
	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73	4.97
IS - Integral Slipfitter	40°	1.81	2.68	2.98	3.85	3.68	5.30	3.62	5.43	7.24
AASP/AARP - Adjustable	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33	8.44
Arm Square/Round Pole	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27	11.03
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18	10.97

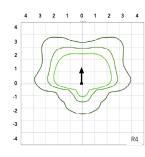
Photometric Diagrams

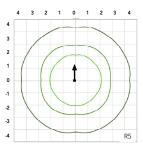
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

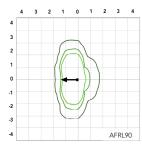
Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').

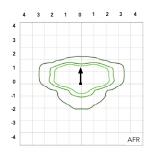


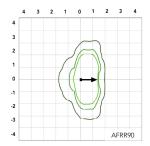












Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15℃	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97
45°C	113°F	0.96
50°C	122°F	0.95

Electrical Load

		Current (A)							
Performance Package	System Watts (W)	120V	208V	240V	277V	347V	480V		
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11		
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15		
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23		
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27		

Projected LED Lumen Maintenance

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40° C.

Performance Data

Lumen Output

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

Performance Package	System Watts	Distribution.			30K 0K, 70 CR	1)				40K K, 70 CR	l)				50K 0K, 70 CR	l)	
rackage		Туре	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
		R2	6,482	1	0	1	126	7,121	1	0	1	139	7,121	1	0	1	139
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R3S	6,631	1	0	1	129	7,286	1	0	2	142	7,286	1	0	2	142
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
D1	F1W	R4S	6,313	1	0	1	124	6,936	1	0	1	136	6,936	1	0	1	136
P1	51W	R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		AFRR90	6,535	2	0	2	127	7,179	2	0	2	140	7,179	2	0	2	140
		AFRL90	6,562	2	0	1	128	7,210	2	0	2	140	7,210	2	0	2	140
		R2	8,991	2	0	1	123	9,878	2	0	1	135	9,878	2	0	1	135
	20	R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R3S	9,198	2	0	2	126	10,106	2	0	2	139	10,106	2	0	2	139
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
Do.		R4S	8,757	1	0	2	122	9,622	2	0	2	134	9,622	2	0	2	134
P2	72W	R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		AFRR90	9,064	3	0	2	124	9,959	3	0	2	137	9,959	3	0	2	137
		AFRL90	9,102	3	0	2	125	10,001	3	0	2	137	10,001	3	0	2	137
		R2	12,808	2	0	1	117	14,072	2	0	2	129	14,072	2	0	2	129
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R3S	13,104	2	0	2	120	14,397	2	0	2	132	14,397	2	0	2	132
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
P3	109W	R4S	12,475	2	0	2	114	13,707	2	0	2	126	13,707	2	0	2	126
rs rs	109W	R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		AFRR90	12,913	3	0	3	118	14,187	3	0	3	130	14,187	3	0	3	130
		AFRL90	12,967	3	0	2	118	14,247	3	0	3	130	14,247	3	0	3	130
		R2	14,943	2	0	2	112	16,417	2	0	2	123	16,417	2	0	2	123
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R3S	15,287	2	0	2	115	16,796	2	0	2	126	16,796	2	0	2	126
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
D4	12214	R4S	14,554	2	0	2	109	15,991	2	0	2	120	15,991	2	0	2	120
P4	133W	R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123
		AFRR90	15,065	3	0	3	113	16,551	3	0	3	124	16,551	3	0	3	124
		AFRL90	15,128	3	0	3	114	16,621	3	0	3	125	16,621	3	0	3	125

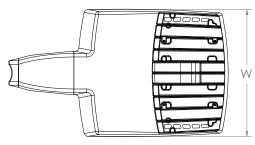


Dimensions & Weights

Luminaire Weight by Mounting Type

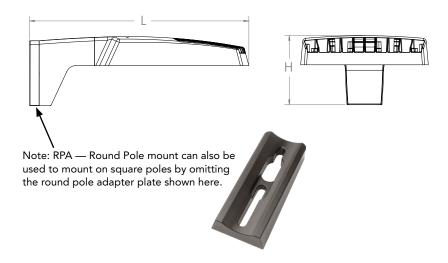
Mounting Configuration	Total Luminaire Weight				
SPA	22 lbs				
RPA	24 lbs				
MA	22 lbs				
WBA	25 lbs				
WBASC	28 lbs				
IS	25 lbs				
AASP	25 lbs				
AARP	27 lbs				
AAWB	28 lbs				
AAWSC	31 lbs				

RSX1 with Round Pole Adapter (RPA)

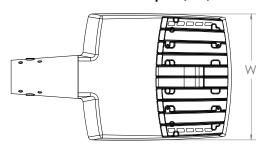


Length: 22.8" (57.9 cm) Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm

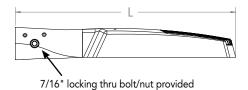


RSX1 with Mast Arm Adapter (MA)



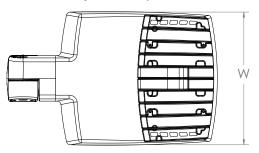
Length: 23.2" (59.1 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Mair

Height: 3.0" (7.6 cm) Main Body 3.5" (8.9 cm) Arm



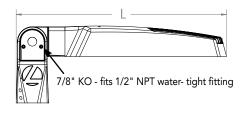


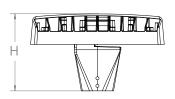
RSX1 with Adjustable Slipfitter (IS)



Length: 20.7" (52.7 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body

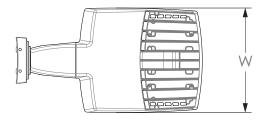
eight: 3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm

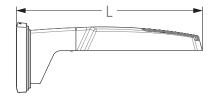


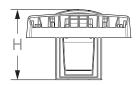




RSX1 with Wall Bracket (WBA)



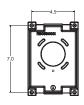


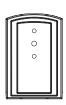


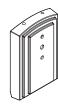
Wall Bracket (WBA) Mounting Detail

Length: 23.6" (59.9 cm) Width: 13.3" (33.8 cm)

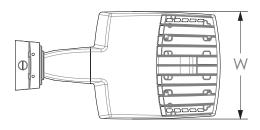
Height: 3.0" (7.6 cm) Main Body 8.9" (22.6 cm) Arm

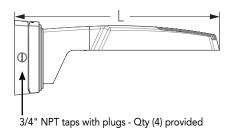


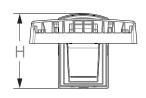




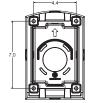
RSX1 with Wall Bracket with Surface Conduit Box (WBASC)

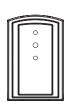


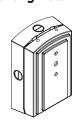




Surface Conduit Box (SCB) Mounting Detail



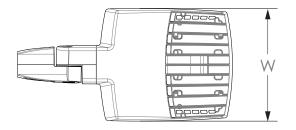


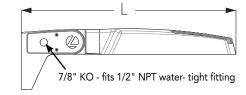


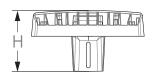
Length: 25.3" (64.3 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body

9.2" (23.4 cm) Arm

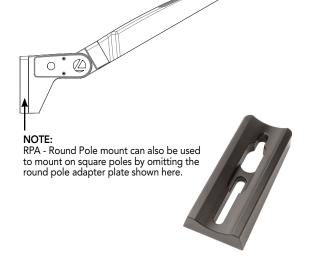
RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)







Length: 25.3" (65.3 cm) AASP 26.3" (66.8 cm) AARP Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 7.2" (18.2 cm) Arm

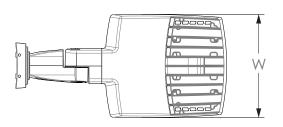


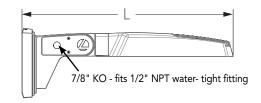
Notes

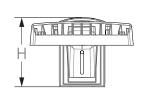
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

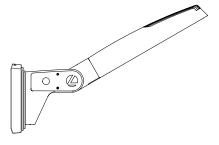
AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)

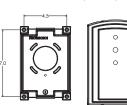


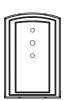


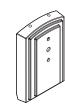










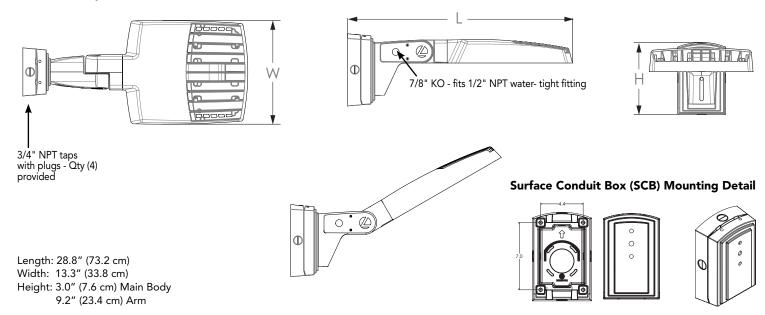


Length: 27.1" (68.8 cm) Width: 13.3" (33.8 cm)

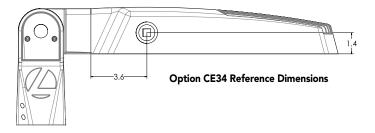
Height: 3.0" (7.6 cm) Main Body 8.9" (22.6 cm) Arm



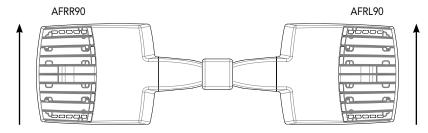
RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



Additional Reference Drawings



Automotive Front Row - Rotated Optics (AFRL90/R90)



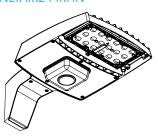
(Example: 2@180 - arrows indicate direction of light exiting the luminaire)

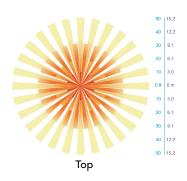


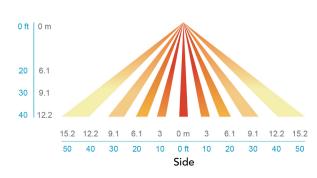
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN







ı	Motion Sensor Default Settings - Option PIRHN										
	Option	Dimmed State (unoccupied)	High Level (when occupied)	Photocell Operation	Dwell Time (occupancy time delay)	Ramp-up Time (from unoccupied to occupied)	Ramp-down Time (from occupied to unoccupied)				
	NLTAIR2 PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes				

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is titled.

FEATURES & SPECIFICATIONS

INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 35, Type 4, Type 45, Type 55, AFR (Automotive Front Row), and AFR rotated AFRR90 and ARFL90.

ELECTRICA

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >192/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/ IEEE C62.41.2).

STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to-use CLAIRITY app. nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

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





	Catalog Number		
	Notes		
ĺ	Туре		

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

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE3 has been designed to deliver up to 12,000 lumens through a precision refractive lens with wide distribution, perfect for augmenting the lighting from pole mounted luminaires.

Specifications

 Depth (D1):
 8"

 Depth (D2):
 1.5"

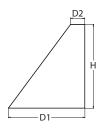
 Height:
 9"

 Width:
 18"

 Weight:
 19.5 lbs

 (without options)
 19.5 lbs





WDGE LED Family Overview

	Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)						
		Stallualu EM, U C	COIU EM, -20 C		P1	P2	P3	P4	P5	P6	
	WDGE1 LED	4W	-		1,200	2,000					
	WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000		
	WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	-		
	WDGE4 LED			Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000	

Ordering Information

EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting			
WDGE3 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	70CRI 80CRI	R2 Type 2 R3 Type 3 R4 Type 4 RFT Forward Throw	MVOLT 347 ¹ 480 ¹	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/ damp locations only) ⁴	Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.		

Options				Finish	
E15WH E20WC PE ² DMG ³ BCE	Emergency battery backup, Certified in CA Title 20 MAEDBS (15W, 5°C min) Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min) Photocell, Button Type 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) Bottom conduit entry for back box	PIR PIRH PIR1FC3V PIRH1FC3V	ensors/Controls Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD	Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured black Textured natural aluminum
SPD10KV	(PBBW). Total of 4 entry points. 10kV Surge pack	NLTAIR2 PIR NLTAIR2 PIRH	ensors/Controls nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights. nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights. of box functionality	DWHGXD DSSTXD	Textured white Textured sandstone

Accessories

Ordered and shipped separatel

COMMERCIAL OUTDOOR

WDGEAWS DDBXD U WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE3/BBW DDBXD U WDGE3 surface-mounted back box (specify finish)

NOTES

- 1 347V and 480V not available with E15WH and E20WC.
- 2 PE not available in 480V and with sensors/controls.
- 3 DMG option not available with sensors/controls.
- 4 Not qualified for DLC. Not available with emergency battery backup or sensors/controls



Lumen Output

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

Performance	System Watts	Diek Ture	30	K (3000K	, 70 C	RI)		40K (4000K, 70 CRI)				50	OK (5000K, 70 CRI)				
Package	Package	Dist. Type	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G	Lumens	LPW	В	U	G
		R2	7,037	136	1	0	1	7,649	148	2	0	1	7,649	148	2	0	1
P1	52W	R3	6,922	134	1	0	2	7,524	145	1	0	2	7,524	145	1	0	2
rı	J2W	R4	7,133	138	1	0	2	7,753	150	1	0	2	7,753	150	1	0	2
		RFT	6,985	135	1	0	2	7,592	147	1	0	2	7,592	147	1	0	2
		R2	7,968	135	2	0	1	8,661	147	2	0	1	8,661	147	2	0	1
P2	59W	R3	7,838	133	1	0	2	8,519	144	1	0	2	8,519	144	1	0	2
FZ		R4	8,077	137	1	0	2	8,779	149	1	0	2	8,779	149	1	0	2
		RFT	7,909	134	1	0	2	8,597	146	2	0	2	8,597	146	2	0	2
		R2	9,404	132	2	0	1	10,221	143	2	0	1	10,221	143	2	0	1
P3	71W	R3	9,250	130	2	0	2	10,054	141	2	0	2	10,054	141	2	0	2
rs	/ 1VV	R4	9,532	134	2	0	2	10,361	145	2	0	2	10,361	145	2	0	2
		RFT	9,334	131	2	0	2	10,146	142	2	0	2	10,146	142	2	0	2
		R2	11,380	129	2	0	1	12,369	140	2	0	1	12,369	140	2	0	1
P4	88W	R3	11,194	127	2	0	2	12,167	138	2	0	2	12,167	138	2	0	2
r4	0000	R4	11,535	131	2	0	2	12,538	142	2	0	2	12,538	142	2	0	2
		RFT	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2

Electrical Load

Performance Package	System Watts	Current (A)								
		120V	208V	240V	277V	347V	480V			
P1	52W	0.437	0.246	0.213	0.186	0.150	0.110			
P2	59W	0.498	0.287	0.251	0.220	0.175	0.126			
P3	71W	0.598	0.344	0.300	0.262	0.210	0.152			
P4	88W	0.727	0.424	0.373	0.333	0.260	0.190			

Lumen Output in Emergency Mode (4000K, 70 CRI)

Option	Dist. Type	Lumens
	R2	3,185
E15WH	R3	3,133
EISWH	R4	3,229
	RFT	3,162
	R2	3,669
E20WC	R3	3,609
EZUWC	R4	3,719
	RFT	3,642

Lumen Multiplier for 80CRI

ССТ	Multiplier			
30K	0.891			
40K	0.906			
50K	0.906			

Lumen Ambient Temperature (LAT) Multipliers

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

Amb	Ambient			
0°C	32°F	1.05		
10°C	50°F	1.03		
20°C	68°F	1.01		
25°C	77°F	1.00		
30°C	86°F	0.99		
40°C	104°F	0.97		

COMMERCIAL OUTDOOR

Projected LED Lumen Maintenance

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

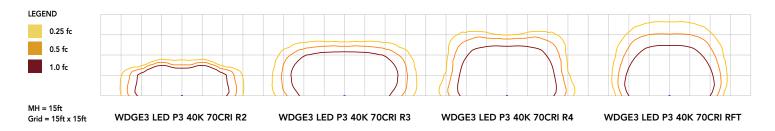
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.98	>0.97	>0.92



Photometric Diagrams

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



Emergency Egress Options

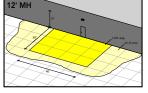
Emergency Battery Backup

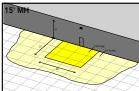
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately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

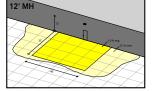
Applicable codes: NFPA 70/NEC - section 700.16, NFPA 101 Life Safety Code Section 7.9

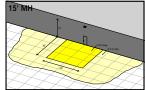
The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E15WH or E20WC and R4 distribution.

Grid = 10ft x 10ft









WDGE3 LED xx 40K 70CRI R4 MVOLT E15WH

WDGE3 LED xx 40K 70CRI R4 MVOLT E20WC



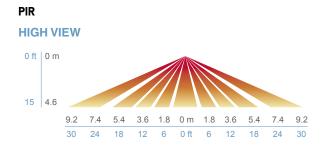
Control / Sensor Options

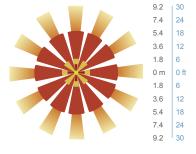
Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

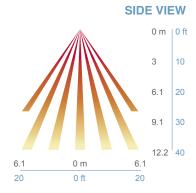
Networked Control (NLTAIR2)

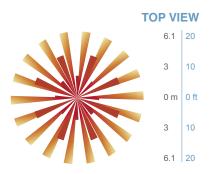
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITYTM Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.





PIRH





Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec



COMMERCIAL OUTDOOR

Mounting, Options & Accessories



NLTAIR2 PIR - nLight AIR Motion/Ambient Sensor

D = 8"

H = 11"

W = 18"



AWS - 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"



PBBW – Surface-Mounted Back Box Use when there is no junction box available.

D = 1.75"

H = 9"

W = 18"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing to optimize thermal transfer from the light engine and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

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

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K configurations. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L92/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2).

COMMERCIAL OUTDOOR

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature and SRM mounting only.

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WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-condition:

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