City of Fitchburg Planning/Zoning Department 5520 Lacy Road Fitchburg, WI 53711 (608-270-4200)	**ARCHITECTURAL & DESIGN REVIEW APPLICATION**

Applicant/Contact Person: Kwik Trip, Inc. / Brad Fry

Address: 1813 Kramer St PO Box 2107 **Phone Number of Contact Person:** 608-793-6414

City, State, Zip Code: La Crosse, WI 54602 **Email of Contact Person:** bfry@kwiktrip.com

Project Address: 2792 S. Syene Road **Lot:** _____ **Subdivision:** _____

Project Type: _____ **Multi-Family** X **Commercial** _____ **Industrial** _____ **Other**

_____ **New** _____ **Addition**

Impervious Surface Ratio (ISR): 55% (City Standard: maximum 65% ISR)

All items listed below must be included with the application to be considered complete. If an item is not included with the application, the applicant must provide in writing the basis for not including it. Building and site plans submitted to the Fitchburg Plan Commission for architectural and design review shall contain the following information:

Site Data:

- ☒ 1. Lot or property dimensions.
- ☒ 2. Orientation (to north).
- ☒ 3. Adjacent highways, roads, drive, etc.
- ☒ 4. Existing natural features (rivers, ponds, wetlands).
- ☒ 5. Existing buildings and/or improvements.
- ☒ 6. Existing and proposed site drainage.
- ☒ 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- ☒ 8. ISR shall be indicated on all plans.
- ☒ 9. Stormwater management plans and details, including grading plan.
- ☒ 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

- ☒ 1. Building size, configuration and orientation.
- ☒ 2. Distance from lot lines.
- ☒ 3. Distance from other buildings, improvements and natural features.
- ☒ 4. Location of well, septic tank, drainfield, etc. (if applicable)
- ☒ 5. Additional proposed additions or new structures, including trash/recycling enclosure(s).
- ☒ 6. Construction type (wood frame, structural steel, etc.).
- ☒ 7. Foundation type (full basement, slab on grade, etc.).
- ☒ 8. Number of levels.
- ☒ 9. Siding/exterior covering type, color, texture, etc.
- ☒ 10. Roof type (gable, hip, shed, flat, etc.) and pitch.
- ☒ 11. Roofing material type, color, texture, etc.
- ☒ 12. Exterior door and window location, size, type, etc.
- N/A ☐ 13. Fire protection sprinklers or fire alarm systems.

Ingress, Egress, Parking:

- ☒ 1. Location of highway and road access points.
- ☒ 2. Location, size, configuration of drivers and walks.
- ☒ 3. Number, size, location of parking spaces.
- ☒ 4. Location of handicapped parking and accessible building entrances.
- ☒ 5. Bicycle rack(s).

Landscaping:

- ☒ 1. Location, species, size of existing trees, shrubs, and plantings.
- ☒ 2. Location, species, size of proposed plantings.
- ☒ 3. Location and size of all paved, seeded/sodded and gravelled areas.
- ☒ 4. Location of all retaining walls, fences, berms and other landscape features.

***It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting an ADR application to identify any concerns or issues of surrounding residents.** Neighborhood held on 11/18/ 2020

The preceding information is considered to be the minimum information for submission, and the City may require additional information for its review. Any interpretations provided by city officials as the result of submitting the attached information are based on the submitted plans, and any plan changes, may affect the interpretations.

It is the responsibility of the owner/applicant to insure compliance with all local and state requirements. The below signed applicant acknowledges the above information and hereby submits the attached information for the City's Architectural and Design Review Process.

Signed: _____ **Date:** 10-20-21

Applicant or Authorized Agent

***** Application shall be accompanied by one (1) sets of full-size plans, two (2) sets no larger than 11"x17", and one (1) pdf document of the complete submittal to planning@fitchburgwi.gov. Applications are due at least 4 weeks prior to the desired Plan Commission Meeting. The time frame assumes a complete set of plans is provided, and if it is not provided the Plan Commission date will be adjusted.**

FOR CITY USE ONLY

Date Received: _____ **Plan Commission Date:** _____

Comments:

Kwik Trip

Architectural & Design Review Resubmittal

2792 S. Syene Road, Fitchburg, WI

October 20, 2021

Prepared for:

1626 Oak Street
PO Box 2107
La Crosse, WI 54602

Prepared by:

JSD Professional Services, Inc.
• Engineers • Surveyors • Planners

161 Horizon Drive, Suite 101
Verona, WI 53593
Project #19-8974

Introduction

On behalf of Kwik Trip, Inc., JSD Professional Services, Inc. (JSD) is requesting Architectural & Design Review (ADR) approval for the new development of a 9,200 SF Kwik Trip convenience store, fuel canopy and car wash to be located at the southeast corner of E. Cheryl Parkway and S. Syene Road in the City of Fitchburg. **The ADR was approved by Planning Commission on December 15, 2020, but the project will not break ground before the December 15, 2021 ADR expiration, therefore a resubmittal is needed.** The following is submitted together with plans and applications for review and approval by City of Fitchburg.

Entitlement Overview

On June 23, 2020 Kwik Trip and JSD staff met with City of Fitchburg Planning and Public Works to discuss proposed site improvements. On September 25, 2020 a follow up call was held with representatives from KL Engineering and Staff to discuss the proposed Kwik Trip site design in collaboration with anticipated E. Cheryl/S. Syene intersection improvements. The applicant hosted a "virtual" neighborhood meeting on November 18, 2020 to inform adjacent residents about the proposal. Notices were digitally sent to the Swan Creek and East Fitchburg Neighborhood Associations, the Addison apartments, and the surrounding Avante apartments in Uptown. The flyer was also posted to the City of Fitchburg's Facebook page. On December 15, 2020 the Planning Commission approved the ADR, Conditional Use for signage, and Certified Survey Map (CSM) application. Since then, the applicant has received conditional approval on the Erosion Control and Stormwater Management permit applications from City Engineering. **The applicant has no concerns with the approved Zoning conditions from the December 15, 2020 meeting.**

Project Location, Context and Zoning

The proposed site improvements will be separated into two existing parcels. The west parcel, Parcel A, is a 2.31-acre site currently occupied by an auto repair shop and towing company. Outlot 1 of the Nine Springs Plat, Parcel B, is a 0.77-acre vacant parcel of land. Parcel A is currently zoned Business Highway (B-H). Parcel B is currently zoned SmartCode (SC-NC). The applicant is requesting the underlying property lines and zoning remain as it is not permitted to rezone Outlot 1 from SmartCode (SC-NC) to Business Highway (B-H) due to a mixed-use classification proposed on the City's Future Land Use map. The applicant understands easements and a deed restriction between parcels will be necessary as a condition of approval.

An existing auto repair shop is to remain south of the subject property, whereas multi-family residential and parkland exists north and west, respectively. An existing driveway entrance onto E. Cheryl Parkway has been vacated since the removal of a commercial building on Outlot 1, whereas an existing driveway to S. Syene Road will be demolished and relocated. The existing intersection at E. Cheryl Parkway and S. Syene Road is a four way stop with dedicated turn lanes and bike lanes to accommodate traveling commuters. Sanitary sewer services enter the site from E. Cheryl Parkway. Water services parallel the site along both S. Syene Road and E. Cheryl Parkway. The site generally drains from west to east, with ultimate stormwater discharge heading south along the Wisconsin & Southern railroad right-of-way.

Overview

The proposed development is comprised of a 9,200 SF convenience store, 1,800 SF car wash, and 20-stall (10 pump) fuel canopy. The building footprint is located adjacent to E. Cheryl Parkway outside a 20' building setback as required within the Business Highway (B-H) zoning district. The main entrance to the building faces south with a secondary entrance along the west façade for ease of pedestrian access from S. Syene Road and E. Cheryl Parkway. A 10' wide sidewalk, three (3) picnic tables and extensive landscape beds are proposed west of the store leading to this entrance. Two monument signs have been located – one at the intersection of E. Cheryl/Syene with the other located adjacent to the E. Cheryl entrance drive. **A Conditional Use application was approved on December 15, 2020 for the digital fuel lettering proposed on both monument signs**. The fuel canopy is centrally located on Parcel A for easy vehicular access, while the car wash is placed in the southeast corner of the site to mitigate traffic and noise. A stormwater wet pond will occupy a majority of Outlot 1.

Design Compliance with Zoning

The development is proposed to comply with the Business Highway and SmartCode zoning district standards. The site and architectural plans contain the following features:

- A total of 33 parking stalls, 2 of which are ADA accessible;
- An additional 20 parking stalls provided beneath the fuel canopy;
- Two driveway access points with consideration for convenient and safe customer access and circulation, efficient retail operations, and delivery vehicle access and circulation;
- Internal access drives provided for safe circulation within the site, included for box trucks, fire department and other large vehicles;
- Sidewalks on the east, south and west sides of the building, with bollards included on the south sidewalk to ensure a safe barrier between pedestrians and parked cars;
- A pedestrian sidewalk connection from public rights-of-way to the building's entrance provide convenient and safe pedestrian connectivity;
- A screened trash enclosure located west of the car wash, away from pedestrian travel path and building entrances, and screened by a combination of red brick and opaque fencing to match the building architecture.

Site Information Table

Refer to the following table for detailed development data:

Land Use & Building Summary Table	
	Total
Parcel A	2.31 acres
Parcel B (Outlot 1 of Nine Springs Plat)	0.77 acres
Total Proposed Impervious Surface Area	71,326 SF
Total Proposed Open Space	57,340 SF
Total Proposed Impervious Surface Ratio	0.55
Building Area (C-Store and Car Wash)	11,000 SF
C-Store Floor Area	9,198 SF
Car Wash Floor Area	1,802 SF
Short Term Bike Parking	4 stalls
Parking Stalls	53
A.D.A.	2
Large	33
Fuel Canopy	20

Stormwater Management Plan and Easements

The stormwater management plan is designed to meet the City of Fitchburg, Dane County, and Wisconsin Department of Natural Resources (WDNR) stormwater management standards. Proposed stormwater facilities

include the construction of a wet pond to service the proposed improvements under “redevelopment” standards. The facilities are designed to address runoff rate control and water quality, including total suspended solids reduction, oil and grease and stable outlet design.

Cross access easements, utility easements and stormwater drainage easements are all anticipated to satisfy the two parcels adjacency. Easement agreements and deed restriction language between parcels will be submitted to Staff as a condition of approval.

Landscaping

Landscape materials which compliment visual themes and styles of the adjacent Riva Apartments and proposed architectural elements have been chosen, with an emphasis on perennial grasses and flowers around the patio areas. The use of shredded hardwood bark mulch will complement the exterior building materials while giving plants the best chance of survival during harsh winters and dry summers. Year-round interest and color will be provided through the careful selection of shrubs and perennial grasses, while deciduous and evergreen trees are proposed to highlight and define the edges of the overall development and architecture.

Site Lighting

Recognizing that site lighting contributes to placemaking as well as providing additional security, lighting is provided in several different forms, including pole mounted fixtures in parking areas and wall mounted fixtures to serve both as security lighting at building entries and as architectural accents. Overall, site lighting is dark skies compliant, consistent with the City of Fitchburg zoning code.

Signage

The design team has proposed the following signage to be incorporated:

- Two (2) free standing monument signs adjacent to E. Cheryl Parkway;
- Three (3) Kwik Trip brand gable mounted signs to building;
- One (1) Kwik Trip brand sign mounted to the car wash;
- Three (3) Kwik Trip brand signs mounted to the fuel canopy; and
- Various wayfinding signs throughout the access road and parking areas

Signage elements have been designed in accordance with City of Fitchburg zoning code and provided with this application.

Schedule of Completion and Public ROW Improvements

City of Fitchburg Public Works and outside consultants have begun the preliminary analysis for a signalized intersection or roundabout at the intersection of E. Cheryl Parkway/S. Syene Road. It’s anticipated these improvements will break ground in spring of 2022. Kwik Trip’s groundbreaking is scheduled to follow the proposed public right-of-way improvements with a spring, 2022 timeline and substantial completion scheduled for fall of 2022.



KWIK TRIP INC.

FITCHBURG, WI

KWIK TRIP #1166

CITY OF FITCHBURG, WISCONSIN

DRAWING INDEX

T1	TITLE SHEET
1 OF 1	ALTA/NSPS LAND TITLE SURVEY
1 OF 1	ALTA/NSPS LAND TITLE SURVEY
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SP1	SITE DIMENSION PLAN
SP1.1	SITE KEYNOTE PLAN
SP2	GRADING AND EROSION CONTROL
SP2.1	GRADING PLAN SPOT DETAIL
SP2.2	ACCESSIBLE PLAN
SP3	UTILITY PLAN
SP4	DETAILS
SP4.1	DETAILS
SP4.2	DETAILS
L1.1	OVERALL LANDSCAPE PLAN
L1.2	DETAILED LANDSCAPE PLAN
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L1.4	DETAILED LANDSCAPE PLAN
L1.5	DETAILED LANDSCAPE PLAN
L1.6	LANDSCAPE DETAILS AND SPECIFICATIONS
E1	PHOTOMETRIC SITE PLAN



PROJECT AREA
NOT TO SCALE

north

PROJECT INFORMATION

OWNER REPRESENTATIVE
STORE ENGINEER: BRAD FRY, P.E.
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1626 OAK STREET
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EMAIL: bfry@kwiktrip.com

CIVIL CONSULTANT
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161 HORIZON DR. SUITE 101
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EMAIL: matt.haase@jsdinc.com

LANDSCAPE CONSULTANT
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kevin.yeska@jsdinc.com

MUNICIPAL CONTACTS

CITY OF FITCHBURG DEPARTMENT OF PUBLIC WORKS
ATTN: BILL BALKE, P.E.
5520 LACY ROAD, FITCHBURG, WI 53711
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bill.balke@fitchburgwi,gov

CITY OF FITCHBURG ZONING ADMINISTRATOR/CITY PLANNER
ATTN: SONJA KRUESEL
5520 LACY ROAD, FITCHBURG, WI 53711
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sonja.kruesel@fitchburgwi.gov

CITY OF FITCHBURG UTILITY PROJECT ENGINEER
ATTN: TRACY FOSS, P.E.
5520 LACY ROAD, FITCHBURG, WI 53711
P: 608-270-4272
tracy.foss@fitchburgwi.gov

UTILITY CONTACTS

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ATTN: PHIL MANION
5520 LACY ROAD, FITCHBURG, WI 53711
P: 608-729-1730
philip.manion@fitchburgwi.gov

GAS MADISON GAS & ELECTRIC
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623 RAILROAD STREET, MADISON, WI 53703
P: 608-252-7224
P: 608-516-7913
C: 608-243-6708
SEndres@mge.com

ELECTRIC MADISON GAS & ELECTRIC
ATTN: JIM HERFEL
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JHerfel@mge.com

TELEPHONE AT&T
ATTN: LISA GUNDLACH
316 WEST WASHINGTON AVENUE
MADISON, WI 53703
P: 608-252-2432
C: 608-609-1961
lg6852@att.com

CABLE TV CHARTER COMMUNICATIONS
ATTN: GLEN JAKUSZ
555 IRISH LANE, FITCHBURG, WI 53711
P: 608-273-3883
C: 608-209-3202
glen.jakusz@chartercom.com

KWIK TRIP STORES

KWIK STAR STORES

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

JSD Professional Services, Inc. — Engineers • Surveyors • Planners
MADISON MILWAUKEE WAUSAU APPLETON KENOSHA CHICAGO COEUR D'ALENE

DRAFT

TITLE SHEET

CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

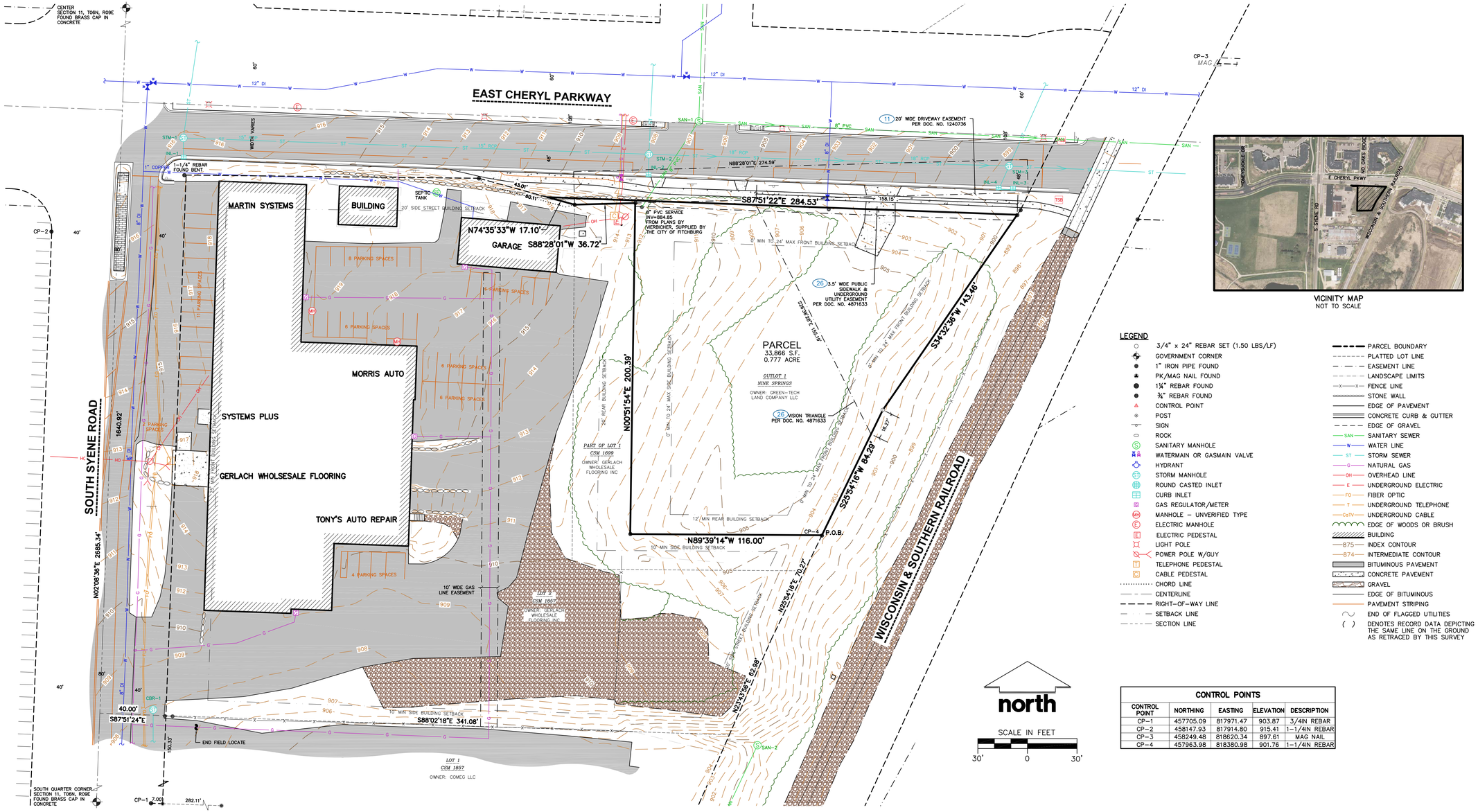
#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 11/17/2020
SHEET T1

File: I:\2020\209726\DWG\Civil Sheets\209726 TITLE SHEET.dwg Layout: T1 User: kyeska Plotted: Nov 17, 2020 - 1:25pm Xrefs:

ALTA/NSPS LAND TITLE SURVEY

OUTLOT 1 OF THE PLAT OF NINE SPRINGS, ALL BEING PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 06 NORTH, RANGE 09 EAST, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.



VICINITY MAP
NOT TO SCALE

LEGEND

- 3/4" x 24" REBAR SET (1.50 LBS/LF)
- GOVERNMENT CORNER
- 1" IRON PIPE FOUND
- PK/MAG NAIL FOUND
- 1¼" REBAR FOUND
- ¾" REBAR FOUND
- CONTROL POINT
- POST
- SIGN
- ROCK
- SANITARY MANHOLE
- WATERMAIN OR GASMAIN VALVE
- HYDRANT
- STORM MANHOLE
- ROUND CASTED INLET
- CURB INLET
- GAS REGULATOR/METER
- MANHOLE – UNVERIFIED TYPE
- ELECTRIC MANHOLE
- ELECTRIC PEDESTAL
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- EASEMENT LINE
- LANDSCAPE LIMITS
- FENCE LINE
- STONE WALL
- EDGE OF PAVEMENT
- CONCRETE CURB & GUTTER
- EDGE OF GRAVEL
- SANITARY SEWER
- WATER LINE
- STORM SEWER
- NATURAL GAS
- OVERHEAD LINE
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- UNDERGROUND TELEPHONE
- UNDERGROUND CABLE
- EDGE OF WOODS OR BRUSH
- BUILDING
- 875 INDEX CONTOUR
- 874 INTERMEDIATE CONTOUR
- BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- GRAVEL
- EDGE OF BITUMINOUS
- PAVEMENT STRIPING
- END OF FLAGGED UTILITIES
- ( ) DENOTES RECORD DATA DEPICTING THE SAME LINE ON THE GROUND AS RETRACED BY THIS SURVEY

CONTROL POINTS

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	457705.09	817971.47	903.87	3/4IN REBAR
CP-2	458147.93	817914.80	915.41	1-1/4IN REBAR
CP-3	458249.48	818620.34	897.61	MAG NAIL
CP-4	457963.98	818380.98	901.76	1-1/4IN REBAR

STORM SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
STM-1	915.94	N	910.32	15"	RCP
		S	910.58	15"	RCP
		E*	910.41	15"	RCP
STM-2	907.91	W	902.85	15"	RCP
		N	903.15	12"	RCP
		S	902.88	12"	RCP
		E*	902.85	15"	RCP
STM-3**	898.34	–	–	–	RCP

* MEASUREMENT TAKEN AT BOTTOM OF STRUCTURE NEAREST INVERT DUE TO PIPE SETBACK.
** COULD NOT OPEN STRUCTURE DUE TO ASPHALT IN RIM.

SANITARY SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
SAN-1	906.91	N	883.10	8"	PVC
		SW	883.10	8"	PVC
		E	882.99	8"	PVC
SAN-2	898.06	SW	883.36	8"	PVC

* COULD NOT OPEN STRUCTURES, DATA TAKEN FROM CITY OF FITCHBURG AS-BUILT SURVEY.

STORM SEWER INLETS

INLET ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
CBR-1	907.84	S	905.37	12"	CMP
INL-1	915.41	N	914.56	2"	PVC
		N	910.96	15"	RCP
INL-2	907.35	N	903.37	12"	RCP
INL-3	898.16	W	895.01	12"	RCP
INL-4	898.34	E	894.90	12"	RCP
		NE	894.18	12"	RCP

NOTES

1. BEARINGS FOR THIS SURVEY AND MAP ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUTNY ZONE; THE WEST LINE OF THE SOUTHEAST QUARTER OF SECTION 11 BEARS N02°08'36"E.
2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK IS A BRASS CAP IN CONCRETE MARKING THE SOUTH 1/4 CORNER OF SECTION 11, T06N, R09E, ELEVATION = 900.85'
3. CONTOUR INTERVAL IS ONE FOOT.
4. JSD DOES NOT GUARANTEE THE CONTROL POINTS ELEVATIONS LISTED ON THIS MAP HAVE NOT BEEN DISTURBED SINCE THE DAE OF SURVEY AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.
5. SUBSURFACE UTILITIES AND FEATURES SHOWN ON THIS MAP HAVE BEEN APPROXIMATED BY LOCATING SURFICIAL FEATURES AND APPURTENANCES, LOCATING DIGGERS HOTLINE FIELD MARKINGS AND BY REFERENCE TO UTILITY RECORDS AND MAPS. DIGGER'S HOTLINE LOCATE TICKET NO. 20202709484, 20202709585, 20202709603 AND 20202709674, WITH A CLEAR DATE OF JULY 03, 2020, AND DIGGER'S HOTLINE PRINT TICKET NO. 20202709494, 20202709591, 20202709606 AND 20202709642, WITH A CLEAR DATE OF JULY 10, 2020.
6. UTILITY COMPANIES CONTACTED THRU DIGGERS HOTLINE:
   CITY OF FITCHBURG; BEAR COMMUNICATIONS; AT&T DISTRIBUTION; WIN, LLC; MADISON GAS & ELECTRIC; CHARTER COMMUNICATIONS; MCI
7. BEFORE EXCAVATION, APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED. FOR EXACT LOCATION OF UNDERGROUND UTILITIES, CONTACT DIGGERS HOTLINE, AT 1.800.242.8511.
8. SITE PLAN RECORDS WERE REQUESTED FROM THE CITY OF FITCHBURG. NO RECORDS WE SUPPLIED FOR THIS SITE.
9. ROADWAY UTILITY RECORD DRAWINGS WERE REQUESTED FROM THE CITY OF FITCHBURG. NO RECORDS WERE PROVIDED.
10. SEE SHEET 2 FOR LEGAL DESCRIPTION (AS FURNISHED), NOTES CORRESPONDING TO TABLE A, AND NOTES CORRESPONDING TO SCHEDULE B-SECTION TWO EXEMPTIONS.

SURVEYOR'S CERTIFICATE

TO:
i) FIRST AMERICAN TITLE INSURANCE COMPANY, LLC,
ii) KWIK TRIP, INC.,
iii) GREEN-TECH LAND COMPANY, LLC, A WISCONSIN LIMITED LIABILITY COMPANY,

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 8, 9, 11, 14, 17, 18, 19, 21 AND 22 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 07, 2020.

TODD J. BUHR, S-2614
PROFESSIONAL LAND SURVEYOR
Email: todd.buhr@jsdinc.com
Website: www.jsdinc.com

DATE

WISCONSIN TODD J. BUHR S-2614 DEFOREST, WI LAND SURVEYOR

JSD Professional Services, Inc.
Engineers • Surveyors • Planners

CREATE THE VISION TELL THE STORY

MADISON | MILWAUKEE
KENOSHA | APPLETON | WAUSAU

MADISON REGIONAL OFFICE
161 HORIZON DRIVE, SUITE 101
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:
KWIK TRIP

CLIENT ADDRESS:
1626 OAK ST., P.O. BOX 2107
LaCROSSE, WI 54602

PROJECT:
2792 S SYENE RD

PROJECT LOCATION:
CITY OF FITCHBURG, WI
DANE COUNTY

Design/Drawn: CJO 07/20/20
Approved: TJB 07/20/20

SHEET TITLE:
ALTA / NSPS LAND TITLE SURVEY

SHEET NUMBER:
1 OF 2

JSD PROJECT NO: 20-9726S

THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF JSD PROFESSIONAL SERVICES INC.

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ALTA/NSPS LAND TITLE SURVEY

PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 1699, AND ALL OF LOT 2 OF CERTIFIED SURVEY MAP NO. 1857, ALL BEING PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 06 NORTH, RANGE 09 EAST, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.



VICINITY MAP
NOT TO SCALE

north

SCALE IN FEET
30' 0 30'

CONTROL POINTS

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP–1	457705.09	817971.47	903.87	3/4IN REBAR
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CP–3	458249.48	818620.34	897.61	MAG NAIL
CP–4	457963.98	818380.98	901.76	1–1/4IN REBAR

LEGEND

- 1¼" x 30" REBAR SET (4.30 LBS/LF)
- 3/4" x 24" REBAR SET (1.50 LBS/LF)
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- PK/MAG NAIL FOUND
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- CONCRETE CURB & GUTTER
- EDGE OF GRAVEL
- SANITARY SEWER
- WATER LINE
- STORM SEWER
- NATURAL GAS
- OVERHEAD LINE
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- UNDERGROUND TELEPHONE
- UNDERGROUND CABLE
- EDGE OF WOODS OR BRUSH
- BUILDING
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- GRAVEL
- EDGE OF BITUMINOUS
- PAVEMENT STRIPING
- END OF FLAGGED UTILITIES
- ( ) DENOTES RECORD DATA DEPICTING THE SAME LINE ON THE GROUND AS RETRACED BY THIS SURVEY

LEGAL DESCRIPTION (AS FURNISHED)

(FIRST AMERICAN TITLE INSURANCE COMPANY, FILE No.: NCS–1016881–MAD, COMMITMENT DATE: JUNE 11, 2020 AT 8:00 A.M.)

LOT 2, CERTIFIED SURVEY MAP 1857, RECORDED NOVEMBER 13, 1975 IN VOLUME 7 OF CERTIFIED SURVEY MAPS, PAGE 294, AS DOCUMENT NO. 1449571, AND A PARCEL OF LAND LOCATED IN THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 11, TOWN 6 NORTH, RANGE 9 EAST, DESCRIBED AS: COMMENCING AT THE NORTHEAST CORNER OF SAID LOT 2 OF CERTIFIED SURVEY MAP 1857; THENCE SOUTH 220.66 FEET; THENCE EAST 140.00 FEET; THENCE NORTH 25°33'30" EAST, 25.60 FEET; THENCE WEST 116.00 FEET; THENCE NORTH 198.83 FEET; THENCE SOUTH 88°05' WEST 35.02 FEET TO THE POINT OF BEGINNING, ALL IN THE CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

FOR INFORMATIONAL PURPOSES ONLY:

ADDRESS: 2792 S SYENE RD, FITHCBURG, WI

TAX KEY NUMBER: 225/0609–114–8701–9

NOTES

1. BEARINGS FOR THIS SURVEY AND MAP ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUTNY ZONE; THE WEST LINE OF THE SOUTHEAST QUARTER OF SECTION 11 BEARS N02°08'36"E.
2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK IS A BRASS CAP IN CONCRETE MARKING THE SOUTH 1/4 CORNER OF SECTION 11, T06N, R09E, ELEVATION = 900.85'
3. CONTOUR INTERVAL IS ONE FOOT.
4. JSD DOES NOT GUARANTEE THE CONTROL POINTS ELEVATIONS LISTED ON THIS MAP HAVE NOT BEEN DISTURBED SINCE THE DAE OF SURVEY AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.
5. SUBSURFACE UTILITIES AND FEATURES SHOWN ON THIS MAP HAVE BEEN APPROXIMATED BY LOCATING SURFICIAL FEATURES AND APPURTENANCES, LOCATING DIGGERS HOTLINE FIELD MARKINGS AND BY REFERENCE TO UTILITY RECORDS AND MAPS. DIGGER'S HOTLINE LOCATE TICKET NO. 20202709484, 20202709585, 20202709603 AND 20202709674, WITH A CLEAR DATE OF JULY 03, 2020, AND DIGGER'S HOTLINE PRINT TICKET NO. 20202709494, 20202709591, 20202709606 AND 20202709642, WITH A CLEAR DATE OF JULY 10, 2020.
6. UTILITY COMPANIES CONTACTED THRU DIGGERS HOTLINE:
   CITY OF FITCHBURG; MADISON GAS & ELECTRIC; BEAR COMMUNICATIONS; CHARTER COMMUNICATIONS; AT&T DISTRIBUTION; MCI; WIN, LLC
7. BEFORE EXCAVATION, APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED. FOR EXACT LOCATION OF UNDERGROUND UTILITIES, CONTACT DIGGERS HOTLINE, AT 1.800.242.8511.
8. SITE PLAN, WATER MAIN, AND SANITARY RECORDS WERE REQUESTED FROM THE CITY OF FITCHBURG. NO RECORDS WE SUPPLIED FOR THIS SITE. NO WATER MAIN OR SANITARY SERVICE CONNECTIONS WERE MARKED THROUGH DIGGER'S HOTLINE
9. ROADWAY UTILITY RECORD DRAWINGS WERE REQUESTED FROM THE CITY OF FITCHBURG. NO RECORDS WERE PROVIDED.
10. GAS METERS–NO FIELD MARKINGS OR MAPS SUPPLIED SHOWING SERVICE CONNECTIONS. GAS LINEWORK SHOWN IS ASSUMED BASED ON EASEMENT AND MARKING ALONG SOUTH LINE OF PARCEL.

SURVEYOR'S CERTIFICATE

TO:

i) FIRST AMERICAN TITLE INSURANCE COMPANY, LLC,
ii) KWIK TRIP, INC., A WISCONSIN CORPORATION,
iii) GERLACH WHOLESALE FLOORING, INC.,

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 8, 9, 11, 14, 17, 18, 19, 21 AND 22 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 07, 2020.

WISCONSIN TODD J. BUHR S–2614 DEFOREST, WI LAND SURVEYOR

TODD J. BUHR, S–2614
PROFESSIONAL LAND SURVEYOR
Email: todd.buhr@jsdinc.com
Website: www.jsdinc.com

DATE

NOTES CORRESPONDING TO TABLE A REQUIREMENTS:

ITEM 3 THE SUBJECT PROPERTY LIES IN ZONE X PER FEMA MAP NUMBER 55025C0419G, WHICH HAS NOT BEEN PRINTED.

ITEM 6(a)(b) PARCEL ZONED 'BUSINESS–HIGHWAY' PER ZONING LETTER FROM THE CITY OF FITCHBURG, DATED JUNE 16, 2020.
BUILDING SETBACKS: FRONT–25 FOOT MINIMUM, SIDE–10 FEET, SIDE STREET–20 FEET, REAR–20 FEET
BUILDING HEIGHT: THE LESSER OF 42 FEET OR 3 STORIES. HEIGHT OVER 3 STORIES OF 42 FEET SUBJECT TO CONDITIONAL USE APPROVAL.
PARKING: REQUIREMENTS PROVIDED IN ACCORDANCE WITH STANDARDS OUTLINED IN 'CITY OF FITCHBURG PARKING REQUIREMENTS AND DRIVEWAY STANDARDS', DATED JANUARY 1996–REVISED JULY 2010

ITEM 9 THERE ARE 49 PARKING SPACES.

ITEM 11 SOURCE INFORMATION FROM PLANS AND MARKING WILL BE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES PURSUANT TO SECTION 5.E.iv. TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR OTHER SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE, IN WHICH CASE THE SURVEYOR SHALL NOTE ON THE PLAT OR MAP HOW THIS AFFECTED THE SURVEYOR'S ASSESSMENT OF THE LOCATION OF THE UTILITIES. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.

ITEM 17 THERE ARE NO PROPOSED CHANGES IN THE STREET RIGHT–OF–WAY LINES PER CITY OF MADISON ENGINEERING DEPARTMENT. THERE IS NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.

ITEM 18 NO WETLAND DELINEATION MARKERS WERE OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

ITEM 19 THERE ARE NO OFFSITE EASEMENTS FOR THE SUBJECT PROPERTY.

NOTES CORRESPONDING TO SCHEDULE B–SECTION TWO EXCEPTIONS

(FIRST AMERICAN TITLE INSURANCE COMPANY, FILE No.: NCS–1016881–MAD, COMMITMENT DATE: JUNE 11, 2020 AT 8:00 A.M.)

(11) RIGHTS OF GRANTOR AS SET FORTH IN QUIT CLAIM DEED RECORDED MAY 11, 1972 IN VOLUME 340 OF RECORDS, PAGE 65 AS DOCUMENT NO. 1325306

THIS ITEM DOES AFFECT THE SUBJECT PROPERTY AND IS NOT GRAPHIC IN NATURE, THEREFORE IT IS NOT PLOTTED HEREON.

(12) UTILITY EASEMENT TO MADISON GAS AND ELECTRIC COMPANY, A WISCONSIN CORPORATION, DATED DECEMBER 31, 1973, RECORDED/FILED JANUARY 25, 1974 IN VOLUME 494, PAGE 700 AS DOCUMENT NO. 1387974.

THIS ITEM DOES NOT AFFECT THE SUBJECT PROPERTY AND IS NOT PLOTTED HEREON.

(13) GAS LINE EASEMENT TO MADISON GAS AND ELECTRIC COMPANY, A WISCONSIN CORPORATION, DATED OCTOBER 31, 1986, RECORDED/FILED DECEMBER 22, 1986 IN VOLUME 9264, PAGE 41 AS DOCUMENT NO. 1985568.

THIS ITEM DOES AFFECT THE SUBJECT PROPERTY AND IS PLOTTED HEREON.

(14) WELL AGREEMENT UPON THE TERMS, CONDITIONS AND PROVISIONS CONTAINED THEREIN:
DATED: MARCH 11, 1999
PARTIES: THOMAS F. HOLMES AND WILLIAM M. HOWARD
RECORDED: MARCH 17, 1999
INSTRUMENT NO.: 3092446

THIS ITEM DOES AFFECT THE SUBJECT PROPERTY AND IS NOT GRAPHIC IN NATURE, THEREFORE IT IS NOT PLOTTED HEREON.

STORM SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
STM–1	915.94	N	910.32	15"	RCP
		S	910.58	15"	RCP
		E*	910.41	15"	RCP
STM–2	907.91	W	902.85	15"	RCP
		N	903.15	12"	RCP
		S	902.88	12"	RCP
		E*	902.85	18"	RCP
STM–3**	898.34	–	–	–	RCP

* MEASUREMENT TAKEN AT BOTTOM OF STRUCTURE NEAREST INVERT DUE TO PIPE SETBACK.
** COULD NOT OPEN STRUCTURE DUE TO ASPHALT IN RIM.

STORM SEWER INLETS

INLET ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
CBR–1	907.84	S	905.37	12"	CMP
INL–1	915.41	N	914.56	2"	PVC
		N	910.96	15"	RCP
INL–2	907.35	N	903.37	12"	RCP
INL–3	898.16	W	895.01	12"	RCP
INL–4	898.34	E	894.90	12"	RCP
		NE	894.18	12"	RCP

SANITARY SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
SAN–1	906.91	N	883.10	8"	PVC
		SW	883.10	8"	PVC
		E	882.99	8"	PVC
SAN–2	898.06	SW	883.36	8"	PVC

* COULD NOT OPEN STRUCTURES, DATA TAKEN FROM CITY OF FITCHBURG AS–BUILT SURVEY.

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MADISON | MILWAUKEE
KENOSHA | APPLETON | WAUSAU

MADISON REGIONAL OFFICE
161 HORIZON DRIVE, SUITE 101
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:
KWIK TRIP

CLIENT ADDRESS:
1626 OAK ST., P.O. BOX 2107
LaCROSSE, WI 54602

PROJECT:
2792 S SYENE RD

PROJECT LOCATION:
CITY OF FITCHBURG, WI
DANE COUNTY

Design/Drawn: CJO 07/20/20
Approved: TJB 07/20/20

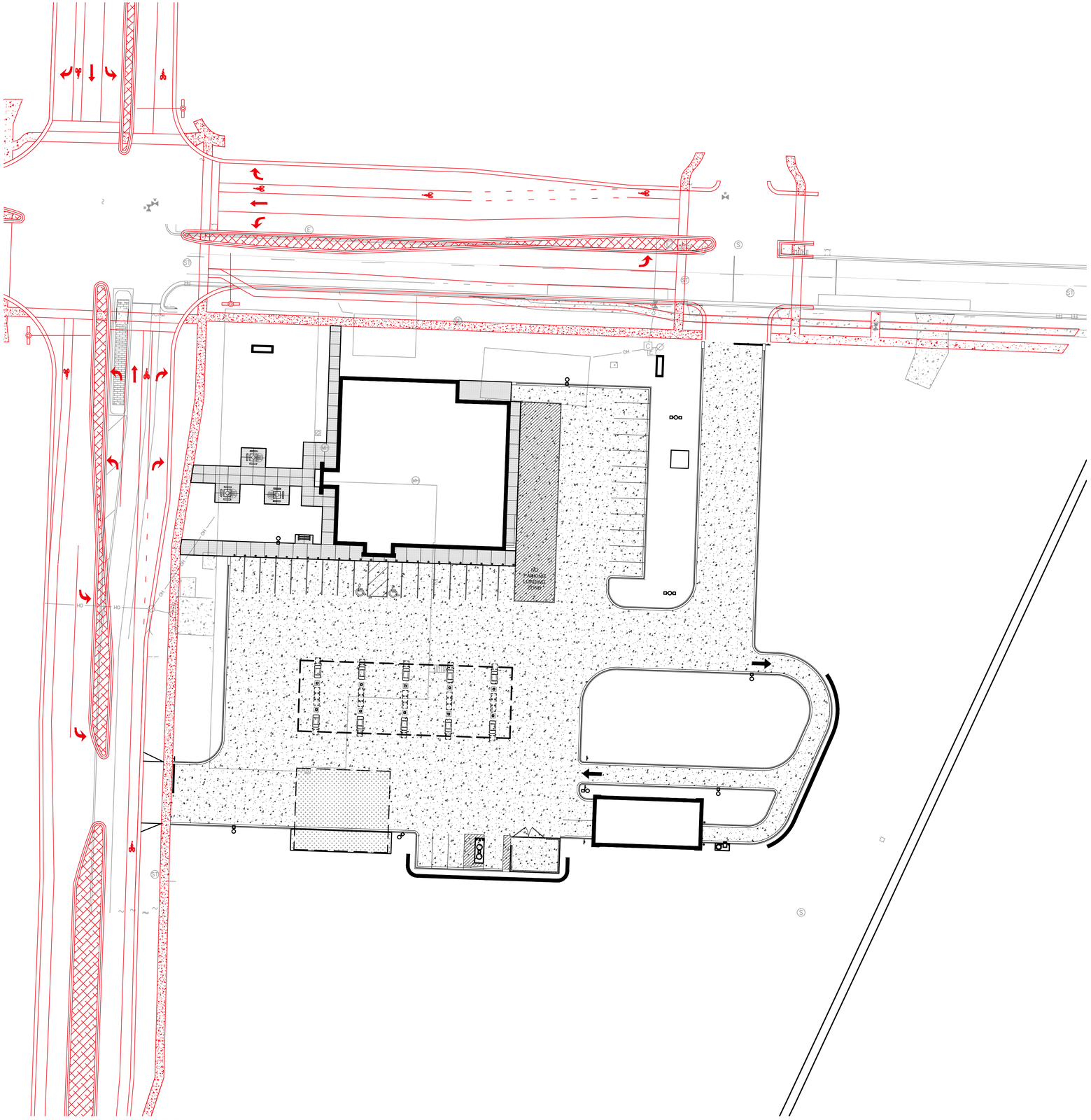
SHEET TITLE:
ALTA / NSPS LAND TITLE SURVEY

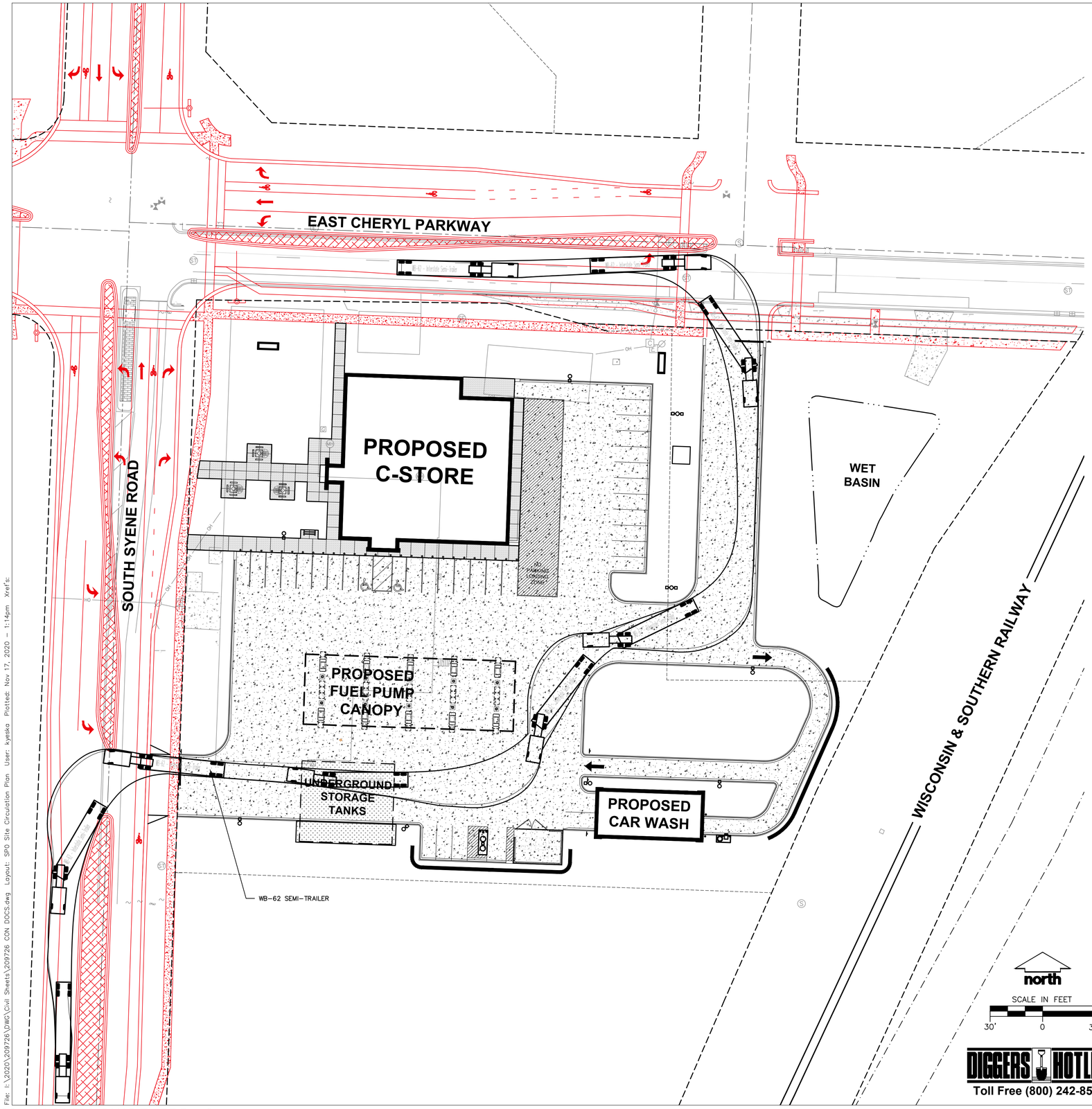
SHEET NUMBER:
1 OF 1

JSD PROJECT NO: 20-9726S

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File: i:\2020\209726\DWG\Survey Sheets\209726 ALTA – 2792.dwg Layout: ALTA 24x36 User: jk Plotted: Oct 29, 2020 – 10:58am Xref's:


NO PARKING LOADING ZONE



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- SIGN (REFER TO SIGNAGE PLAN)
- BOLLARD
- BOLLARD WITH ADA PARKING SIGN
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)

north

SCALE IN FEET

30' 0 30'

DIGGERS HOTLINE
Toll Free (800) 242-8511

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FAX (608) 781-8960

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APPLETON
KENOSHA
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DRAFT

SITE CIRCULATION PLAN

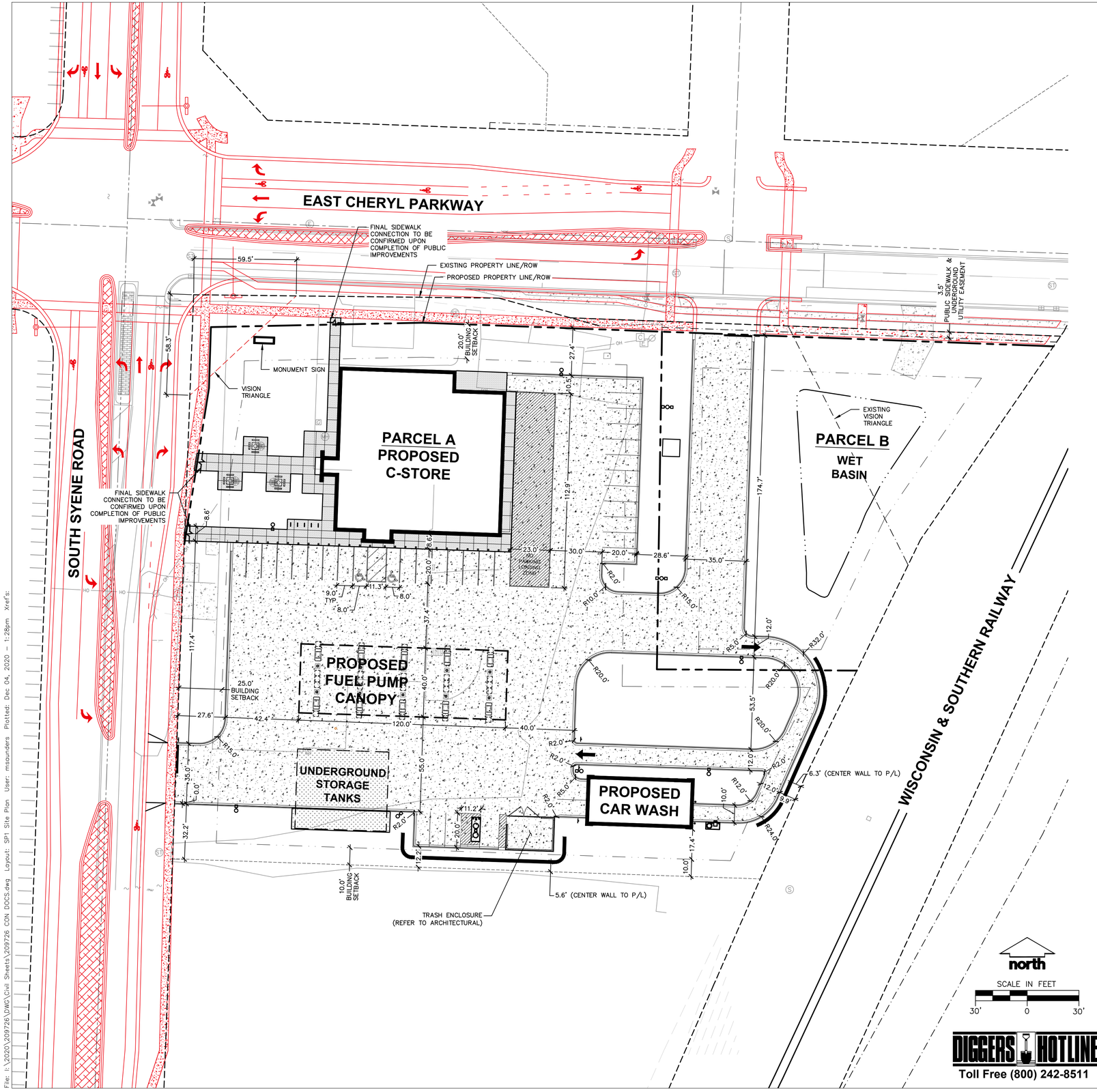
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 11/17/2020
SHEET SP0

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LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
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- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
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- BOLLARD WITH ADA PARKING SIGN
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)

GENERAL NOTES

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
2. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
3. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
5. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

SITE INFORMATION BLOCK

SITE ADDRESS	2792 SOUTH SYENE ROAD
PARCEL A	2.31 ACRES
PARCEL B (OUTLOT 1 OF NINE SPRINGS)	0.77 ACRES
NUMBER OF BUILDING STORIES	1
TOTAL BUILDING SQUARE FOOTAGE (C-STORE)	9,198
TOTAL BUILDING SQUARE FOOTAGE (CAR WASH)	1,802
GROSS BUILDING SQUARE FOOTAGE (C-STORE & CAR WASH)	11,000
NUMBER OF PARKING STALLS (INCLUDING FUEL CANOPY)	
SURFACE	33
LARGE	31
ACCESSIBLE	2
NUMBER OF BICYCLE STALLS:	10
EXISTING VS. PROPOSED SITE COVERAGE (PARCEL A & B COMBINED)	
EXISTING IMPERVIOUS SURFACE AREA	73,305 SF
EXISTING PERVIOUS SURFACE AREA	55,361 SF
EXISTING IMPERVIOUS SURFACE AREA RATIO	0.57
PROPOSED IMPERVIOUS SURFACE AREA	71,326 SF
PROPOSED PERVIOUS SURFACE AREA	57,340 SF
PROPOSED IMPERVIOUS SURFACE AREA RATIO	0.55

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SITE DIMENSION PLAN

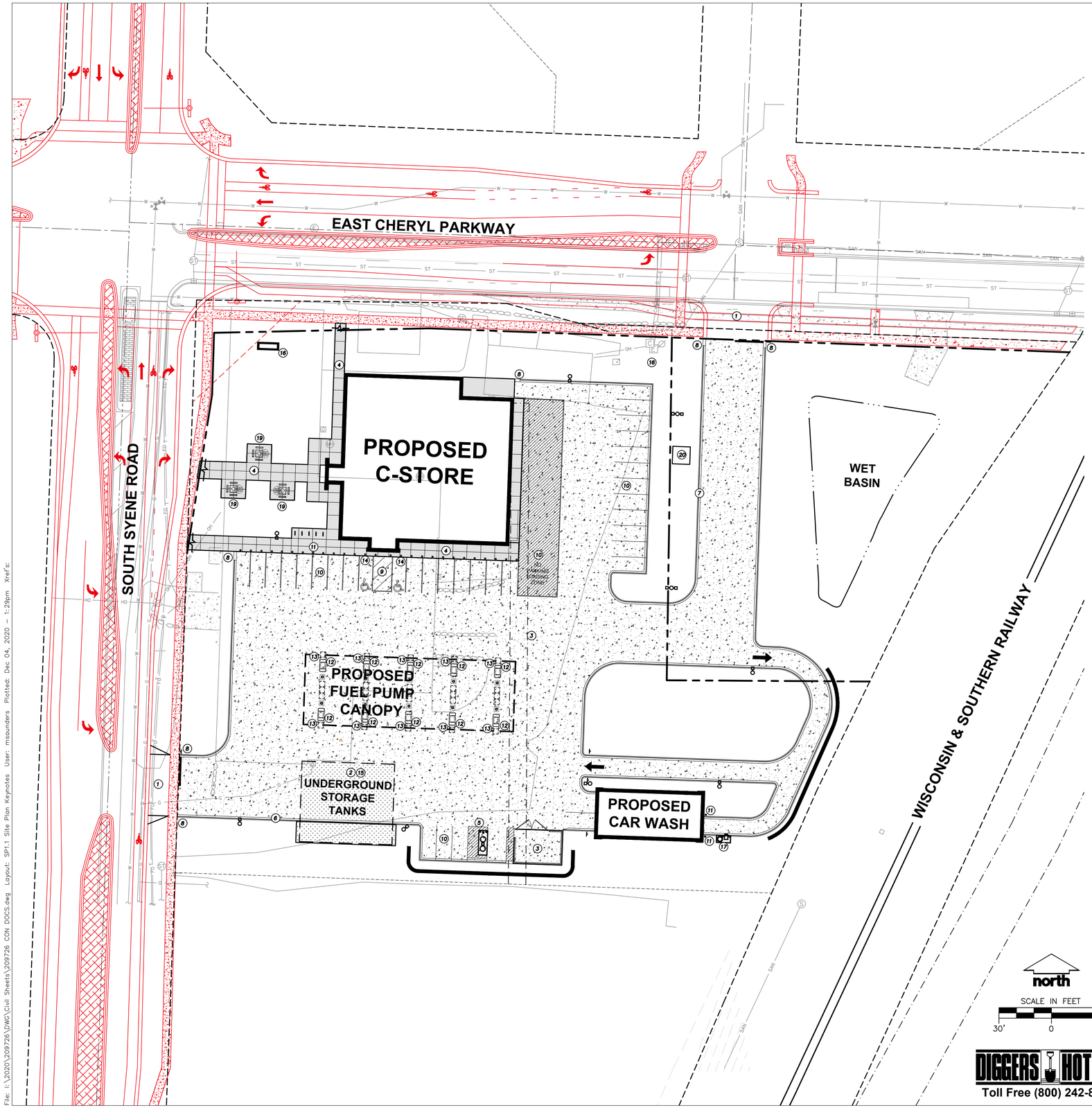
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY	
SCALE	
JSD PROJ. NO.	20-9726
DATE	12/07/2020
SHEET	SP1

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LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
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- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- SIGN (REFER TO SIGNAGE PLAN)
- BOLLARD
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)

KEYED NOTES

1. HEAVY DUTY CONCRETE– 8" MINIMUM DEPTH CONCRETE APPROACH. (CONSULT OWNER FOR REINFORCEMENT, IF ANY, AND MIX DESIGN)
2. HEAVY DUTY CONCRETE– 8" MINIMUM DEPTH CONCRETE SLAB ON GRADE. (CONSULT OWNER FOR REINFORCEMENT, IF ANY, AND MIX DESIGN)
3. STANDARD CONCRETE SECTION– 6" MINIMUM CONCRETE SLAB ON GRADE. (CONSULT OWNER FOR REINFORCEMENT, IF ANY, AND MIX DESIGN)
4. CONCRETE SIDEWALK SECTION– 4" MINIMUM CONCRETE SLAB ON GRADE.
5. ACCESSIBLE VACUUM & AIR INSTALLED WITH APPROPRIATED HEIGHTS. PARKING AREA SHALL MEET A.D.A. DIMENSIONS FOR ACCESS AND SURFACE FOR WHEEL CHAIR ACCESS SHALL NOT EXCEED 1:48 SLOPE IN ALL DIRECTIONS. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
6. 18" STANDARD CURB AND GUTTER.
7. 18" REJECT CURB AND GUTTER.
8. TRANSITION CURB & GUTTER.
9. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS. A.D.A. SYMBOL TO BE BLUE PAINT.
10. USE 4"–WIDE HIGH–VISIBILITY YELLOW PAINT FOR PARKING STALLS, LANE MARKINGS AND TEXT.
11. 30"–HIGH, 6"–DIAMETER CONCRETE FILLED PIPE BOLLARD.
12. CONCRETE ISLANDS WITH 6" EXPOSURE WITH FUEL DISPENSERS. DISPENSER PER OWNER. 3'–6" x 6'–0".
13. 36"–HIGH, 6"–DIAMETER, CONCRETE FILLED PIPE BOLLARD.
14. HC PVC BOLLARD SLEEVE. PER OWNER. VAN ACCESS SIGNAGE AT 48"–HEIGHT. STALL PARKING AT 60"–HEIGHT.
15. UNDERGROUND FUEL STORAGE TANKS.
16. KWIK TRIP, INC. TRADEMARK SIGN. COORDINATE WITH OWNER. SEE SIGNAGE PLAN.
17. CAR WASH PAY STATION. COORDINATE WITH OWNER.
18. LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
19. PICNIC TABLE WITH ONE (1) A.D.A. ACCESSIBLE PLACEMENT AS SHOWN. PROVIDE TRASH CONTAINER.
20. TRANSFORMER PAD. COORDINATE WITH UTILITY COMPANY ON PAD SIZE AND THICKNESS

DIGGERS HOTLINE
Toll Free (800) 242-8511

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DRAFT

SITE KEYNOTES PLAN

CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET SP1.1

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EAST CHERYL PARKWAY

SOUTH SYENE ROAD

WISCONSIN & SOUTHERN RAILWAY

PROPOSED C-STORE
FFE: 914.00

PROPOSED CAR WASH
FFE: 911.00

WET BASIN

FRAMED INLET PROTECTION, TYP.

CONSTRUCTION ENTRANCE

APRON ENDWALL WITH MEDIUM RIPRAP

PROVIDE WEEP HOLES THOUGH WALL FOR STORMWATER DRAINAGE

WET BASIN OVERFLOW WEIR

SILT FENCE, TYP.

GRADE BREAK, TYP.

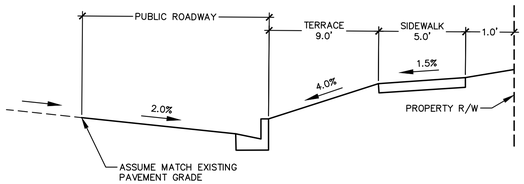
NO PARKING SIGNAGE ALONG

LEGEND

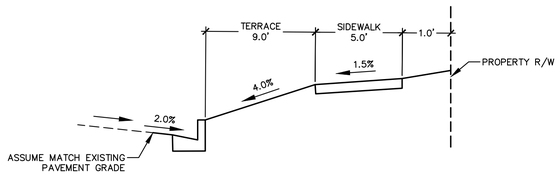
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- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- SIGN (REFER TO SIGNAGE PLAN)
- BOLLARD
- BOLLARD WITH ADA PARKING SIGN
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)
- 985 PROPOSED 1 FOOT CONTOUR
- 986 PROPOSED 5 FOOT CONTOUR
- 985 EXISTING 1 FOOT CONTOUR
- 986 EXISTING 5 FOOT CONTOUR
- DRAINAGE DIRECTION
- GRADE BREAK
- SILT FENCE
- RIP-RAP
- CONSTRUCTION ENTRANCE
- DITCH CHECK
- INLET PROTECTION
- STORM SEWER
- CLASS I, TYPE B EROSION MATTING
- TURF REINFORCEMENT MATTING

NOTE:

GRADES ADJACENT TO SOUTH SYENE RD. & EAST CHERYL PARKWAY ARE ASSUMED AT THE PROPOSED RIGHT OF WAY LINE ALONG THE NORTH & WEST SIDES OF PROPERTY.



SOUTH SYENE ROAD SECTION



EAST CHERYL PARKWAY SECTION

north

SCALE IN FEET

30' 0 30'

DIGGERS HOTLINE
Toll Free (800) 242-8511

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MADISON MILWAUKEE WAUSAU APPLETON KENOSHA CHICAGO COEUR D'ALENE

DRAFT

GRADING AND EROSION CONTROL

CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

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EAST CHERYL PARKWAY

SOUTH SYENE ROAD

PROPOSED
C-STORE
FFE: 914.00

PROPOSED
CAR WASH
FFE: 911.00

WET
BASIN

NO
PARKING
LOADING
ZONE

WISCONSIN & SOUTHERN RAILWAY

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT LINE
- BUILDING OUTLINE
- FUEL CANOPY
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- SIGN (REFER TO SIGNAGE PLAN)
- BOLLARD
- BOLLARD WITH ADA PARKING SIGN
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)
- 985 PROPOSED 1 FOOT CONTOUR
- 986 PROPOSED 5 FOOT CONTOUR
- 985 EXISTING 1 FOOT CONTOUR
- 986 EXISTING 5 FOOT CONTOUR
- DRAINAGE DIRECTION
- GRADE BREAK
- STORM SEWER
- FG: 910.56 SPOT ELEVATION
  - EC – EDGE OF CONCRETE
  - FG – FINISH GRADE
  - EX – MATCH EXISTING GRADE
  - TW – TOP OF WALL (GRADE)
  - BW – BOTTOM OF WALL (GRADE)

north

SCALE IN FEET
20' 0 20'

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GRADING PLAN SPOT DETAIL

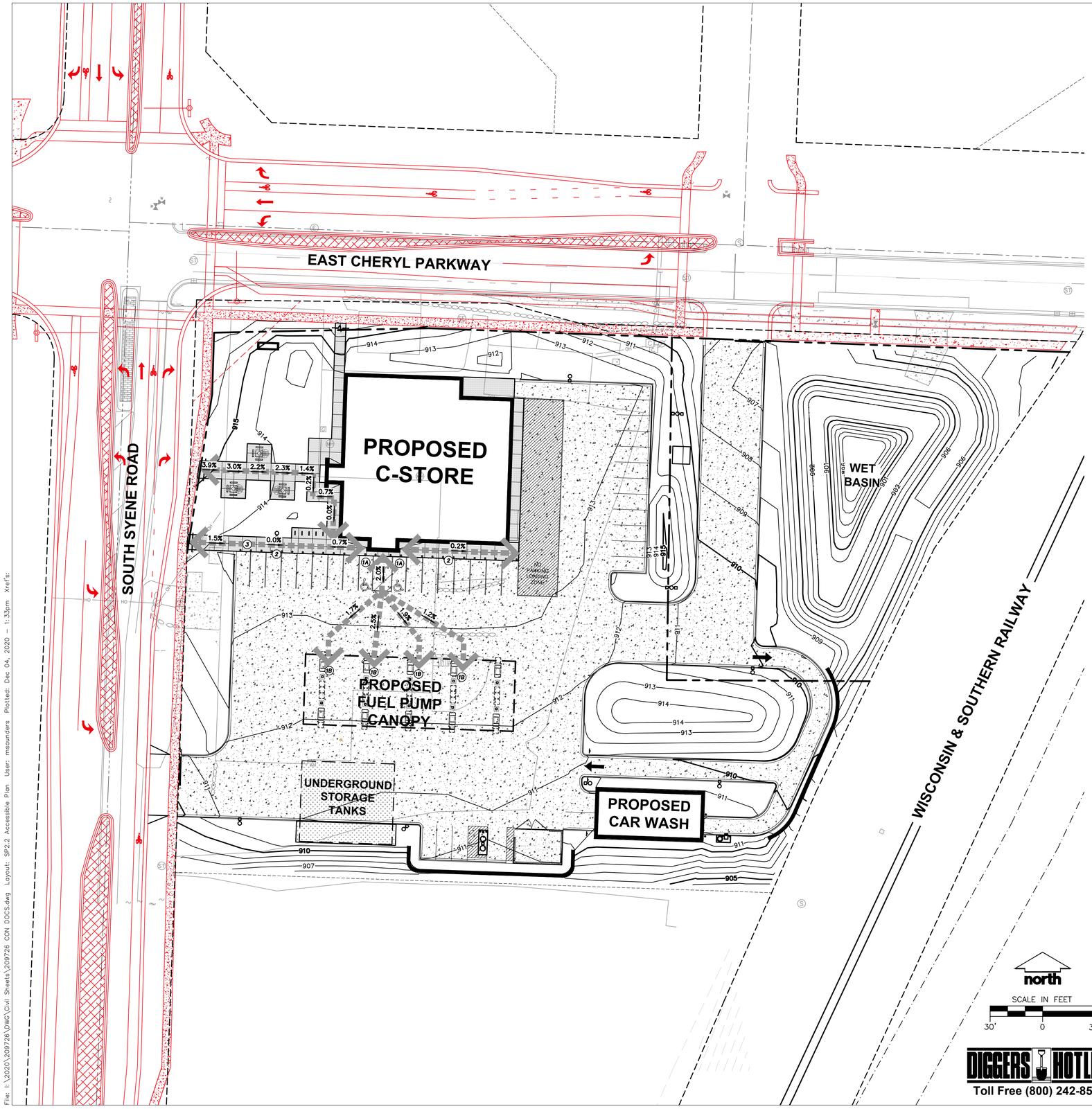
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
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LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- SIGN (REFER TO SIGNAGE PLAN)
- BOLLARD
- BOLLARD WITH ADA PARKING SIGN
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)

ACCESSIBLE NOTES

1. REFER TO THE DOCUMENT FROM THE DEPARTMENT OF JUSTICE ON 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN". CONTRACTOR SHALL REFERENCE CURRENT A.D.A GUIDELINES AND LOCAL REGULATIONS FOR SITE ACCESSIBILITY. IN ALL CASES THE MINIMUM REQUIREMENTS SHALL BE PROVIDED ON SITE TO ENSURE COMPLIANCE TO ALL REGULATIONS.
2. KWIK TRIP STANDARD ENTRANCE DOOR IS AUTOMATIC SLIDER DOOR SYSTEM DESIGNED TO COMPLY WITH ALL ACCESS CODES AND LAWS. ENTRANCE DOORS FOR ACCESSIBLE ROUTES WILL HAVE A MINIMUM CLEAR OPENING OF 32".
3. STORE FRONTS WILL PROVIDE FLUSH PAVEMENTS ALONG ACCESSIBLE ROUTES WITH PROTECTIVE SECURITY BOLLARDS INDICATED AND SPACED BETWEEN PARKING SURFACES AND BUILDING WALK PER PLAN.
4. NO OBJECTS OR DISPLAYS SHOULD PROTRUDE INTO THE MINIMUM CLEAR SPACE OF THE ACCESSIBLE ROUTES TO THE STORE ENTRANCE. THIS WILL INCLUDE SEASONAL DISPLAY VENDING AREAS AS WELL AS OTHER OUTDOOR STORAGE UNITS FOR PROPANE AND ICE, ETC.
5. PER A.D.A GUIDELINES–CLEAR WIDTH OF ACCESSIBLE ROUTES SHALL BE 36" AND PERMITTED TO BE REDUCED TO 32" FOR A LENGTH OF 24".
6. ACCESS ISLES SERVING WHEEL CHAIR LEFTS OR CHAIR ACCESS FROM VEHICLES ARE REQUIRED TO BE NEARLY LEVEL IN ALL DIRECTIONS TO PROVIDE SAFE TRANSFER OF WHEELCHAIRS TO AND FROM VEHICLES. THE EXCEPTION WOULD BE FOR DRAINAGE. MAXIMUM SLOPE FOR THE ACCESS ISLE IS 1:48. NO CURB RAMPS SHALL BE A PART OF THE ACCESS ISLE.
7. IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH THE DESIGNATIONS OF I "VAN ACCESSIBLE" IN EVERY 8 ACCESSIBLE SPACES ON SITE.

NOTES FOR CONVENIENCE STORE ACCESSIBILITY

1. AT LEAST 1 MPD (MULTI–PRODUCT DISPENSER) COVERING ALL GRADES OF FUEL MUST BE ACCESSIBLE IN A 30"x48" CLEAR LEVEL FLOOR AREA (CLF).
2. ALL PUMP CONTROLS SHALL BE <48" (2010 STANDARD). WINDOW WASHER, PAPER TOWEL DISPENSER, LITERATURE, FIRE EXTINGUISHER, EMERGENCY FUELS STOPS, ETC. BE ACCESSIBLE 30"x48" SHELF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.
3. PROVIDE ISA (INDUSTRY STANDARD ARCHITECTURE) AT EACH ACCESSIBLE FUEL POSITION ON FACE OF PUMP.
4. PROVIDE ISA AT EACH ACCESSIBLE FUELING POSITION VISIBLE TO APPROACHING VEHICLES.
5. PROVIDE A SIGN AT EACH ACCESSIBLE FUELING POSITION WITH STORE TELEPHONE NUMBER, ADVISING AVAILABLE FUELING ASSISTANCE.
6. ANY PAY FUNCTION–I.E. AIR/VACUUM ET. ARE REQUIRED TO HAVE AN ACCESSIBLE ROUTE TO STORE ENTRANCE. CONTROLS SHALL BE ACCESSIBLE 30"x48" CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.

PLAN KEYNOTES

1. ACCESSIBLE STALLS
   - A. STRIPING – 4" WIDE STALL LINES, USE HIGH VISIBILITY BLUE PAINT.
     SPACES PROVIDED
     (2) 8'–0" x 20'–0" ACCESSIBLE PARKING WITH
     (1) 9'–0" x 20'–0" LOADING ZONE.
   - B. ACCESSIBLE FUELING POINT AND DISPENSER AND VALET. VALET AND KEY PAD ON PUMP SHALL CONFORM TO ADA REACH DIMENSIONS AS SHOWS IN DETAIL. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY
2. PAVEMENTS FLUSH FOR ACCESSIBILITY
3. ACCESSIBLE ROUTE TO STORE.

north

SCALE IN FEET

30' 0 30'

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ACCESSIBLE PLAN

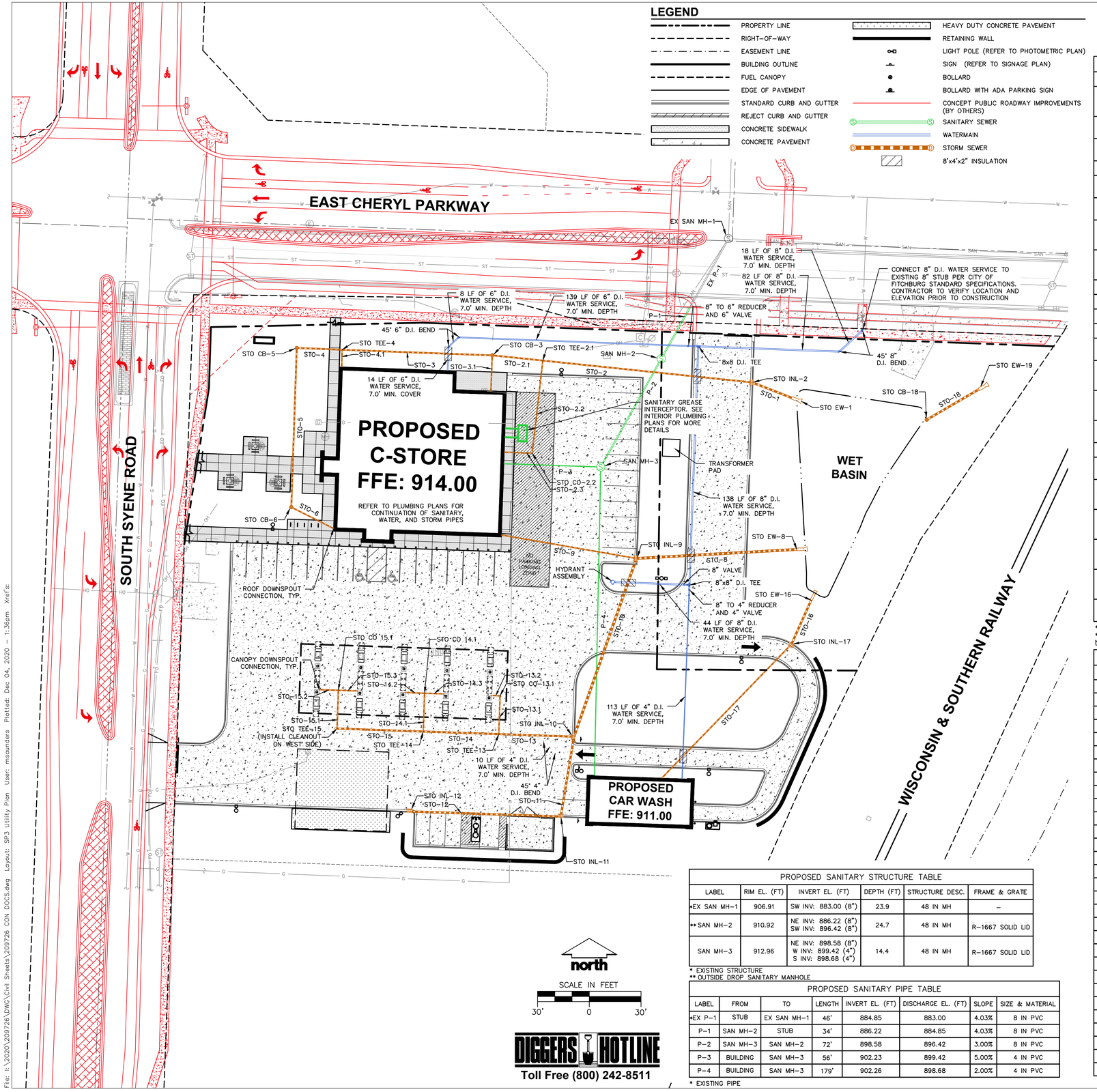
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

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PROPOSED STORM STRUCTURE TABLE					
LABEL	RIM EL. (FT)	INVERT EL. (FT)	DEPTH (FT)	STRUCTURE DESC.	FRAME & GRATE
STO CB-3	911.75	E INV: 907.29 (8") W INV: 907.46 (8") S INV: 907.46 (6")	4.5	24 IN DB	DOME GRATE
STO CB-5	912.50	E INV: 909.16 (8") S INV: 909.26 (8")	3.3	24 IN DB	DOME GRATE
STO CB-6	912.85	N INV: 910.18 (8") SE INV: 910.35 (6")	2.7	24 IN DB	DOME GRATE
STO CB-18	903.33	NE INV: 902.00 (12")	4.6	36 IN MH (FLAT)	36" HALLA CONE GRATE #RCG36
STO CO-2.2	907.83	N INV: 907.26 (6") W INV: 907.26 (6")	–	CLEANOUT	R-5900A
STO CO-13.1	907.92	S INV: 907.35 (6") W INV: 907.35 (6")	–	CLEANOUT	R-5900A
STO CO 14.1	908.35	S INV: 907.79 (6") W INV: 907.79 (6") E INV: 907.79 (6")	–	CLEANOUT	R-5900A
STO CO 15.1	908.85	S INV: 908.29 (6") W INV: 908.29 (6") E INV: 908.29 (6")	–	CLEANOUT	R-5900A
STO EW-1	904.10	W INV: 903.00 (12")	–	15 IN HDPE FES	–
STO EW-8	904.38	W INV: 903.00 (15")	–	15 IN HDPE FES	–
STO EW-16	904.10	SW INV: 903.00 (12")	–	12 IN HDPE FES	–
STO EW-19	902.85	SW INV: 901.75 (12")	–	15 IN RCP FES	–
STO INL-2*	906.60	E INV: 903.17 (12") W INV: 903.50 (8")	6.4	2 x 3 INLET	R-3067 TYPE R
STO INL-9**	912.21	E INV: 904.74 (15") W INV: 908.00 (6") S INV: 904.84 (15")	11.2	48 IN MH (FLAT)	R-3067 TYPE R
STO INL-10	911.15	N INV: 905.94 (15") S INV: 906.19 (12") W INV: 906.36 (10")	5.2	2 x 3 INLET	R-3067 TYPE R
STO INL-11	910.45	N INV: 906.66 (12") W INV: 906.76 (12")	3.8	2 x 3 INLET	R-3067 TYPE R
STO INL-12	910.64	E INV: 907.64 (12")	3.0	2 x 3 INLET	R-3067 TYPE R
STO INL-17*	909.04	NE INV: 903.70 (12") SW INV: 904.20 (6")	5.3	2 x 3 INLET	R-3067 TYPE R
STO TEE-2.1	907.30	E INV: 906.55 (8") W INV: 906.55 (8") S INV: 906.72 (6")	–	TEE	–
STO TEE-4	909.51	E INV: 908.76 (8") W INV: 908.76 (8") S INV: 908.76 (6")	–	TEE	–
STO TEE-13	907.73	E INV: 906.79 (10") W INV: 906.79 (10") N INV: 907.13 (6")	–	TEE	–
STO TEE-14	908.17	E INV: 907.23 (10") W INV: 907.23 (10") N INV: 907.56 (6")	–	TEE	–
STO TEE-15	908.67	E INV: 907.73 (10") N INV: 908.06 (6")	–	TEE	INSTALL R-5900A CLEANOUT ON WEST SIDE OF TEE

*INSTALL FLEXSTORM FX+ PERMANENT OIL AND GREASE INLET FILTER
**INSTALL SNOUT OIL AND GREASE BAFFLE W/ BIOSKIRT. SEE DETAIL ON SP6
NOTE: INLET RIM ELEVATIONS ARE MEASURED TO FLOW LINE

PROPOSED SANITARY STRUCTURE TABLE					
LABEL	RIM EL. (FT)	INVERT EL. (FT)	DEPTH (FT)	STRUCTURE DESC.	FRAME & GRATE
*EX SAN MH-1	906.91	SW INV: 883.00 (8")	23.9	48 IN MH	–
**SAN MH-2	910.92	NE INV: 886.22 (8") SW INV: 896.42 (8")	24.7	48 IN MH	R-1667 SOLID LID
SAN MH-3	912.96	NE INV: 898.58 (8") W INV: 899.42 (4") S INV: 898.68 (4")	14.4	48 IN MH	R-1667 SOLID LID

* EXISTING STRUCTURE
** OUTSIDE DROP SANITARY MANHOLE

PROPOSED SANITARY PIPE TABLE							
LABEL	FROM	TO	LENGTH	INVERT EL. (FT)	DISCHARGE EL. (FT)	SLOPE	SIZE & MATERIAL
*EX P-1	STUB	EX SAN MH-1	46'	884.85	883.00	4.03%	8 IN PVC
P-1	SAN MH-2	STUB	34'	886.22	884.85	4.03%	8 IN PVC
P-2	SAN MH-3	SAN MH-2	72'	898.58	896.42	3.00%	8 IN PVC
P-3	BUILDING	SAN MH-3	56'	902.23	899.42	5.00%	4 IN PVC
P-4	BUILDING	SAN MH-3	179'	902.26	898.68	2.00%	4 IN PVC

* EXISTING PIPE

PROPOSED STORM PIPE TABLE							
LABEL	FROM	TO	LENGTH	INVERT EL. (FT)	DISCHARGE EL. (FT)	SLOPE	SIZE & MATERIAL
STO-1	STO INL-2	STO EW-1	24'	903.17	903.00	0.67%	12 IN HDPE
STO-2	STO TEE-2.1	STO INL-2	122'	906.55	903.50	2.50%	8 IN HDPE
STO-2.1	STO CB-3	STO TEE-2.1	30'	907.29	906.55	2.50%	8 IN HDPE
STO-2.2	STO CO-2.2	STO TEE-2.1	54'	907.26	906.72	1.00%	6 IN HDPE
STO-2.3	BUILDING	STO CO-2.2	16'	907.42	907.26	1.00%	6 IN HDPE
STO-3	STO TEE-4	STO CB-3	87'	908.76	907.46	1.50%	8 IN HDPE
STO-3.1	BUILDING	STO CB-3	21'	907.66	907.46	1.00%	6 IN HDPE
STO-4	STO CB-5	STO TEE-4	27'	909.16	908.76	1.50%	8 IN HDPE
STO-4.1	BUILDING	STO TEE-4	10'	908.86	908.76	1.00%	6 IN HDPE
STO-5	STO CB-6	STO CB-5	92'	910.18	909.26	1.00%	8 IN HDPE
STO-6	BUILDING	STO CB-6	28'	910.62	910.35	1.00%	6 IN HDPE
STO-8	STO INL-9	STO EW-8	93'	904.74	903.00	1.87%	15 IN HDPE
STO-9	BUILDING	STO INL-9	79'	908.79	908.00	1.00%	6 IN HDPE
STO-10	STO INL-10	STO INL-9	110'	905.94	904.84	1.00%	15 IN HDPE
STO-11	STO INL-11	STO INL-10	47'	906.66	906.19	1.00%	12 IN HDPE
STO-12	STO INL-12	STO INL-11	88'	907.64	906.76	1.00%	12 IN HDPE
STO-13	STO TEE-13	STO INL-10	44'	906.79	906.36	1.00%	10 IN HDPE
STO-13.1	STO CO-13.1	STO TEE-13	22'	907.35	907.13	1.00%	6 IN HDPE
STO-13.2	BUILDING	STO CO-13.1	5'	907.40	907.35	1.00%	6 IN HDPE
STO-14	STO TEE-14	STO TEE-13	44'	907.23	906.79	1.00%	10 IN HDPE
STO-14.1	STO CO 14.1	STO TEE-14	22'	907.79	907.56	1.00%	6 IN HDPE
STO-14.2	BUILDING	STO CO 14.1	11'	907.90	907.79	1.00%	6 IN HDPE
STO-14.3	BUILDING	STO CO 14.1	11'	907.90	907.79	1.00%	6 IN HDPE
STO-15	STO TEE-15	STO TEE-14	50'	907.73	907.23	1.00%	10 IN HDPE
STO-15.1	STO CO 15.1	STO TEE-15	22'	908.29	908.06	1.00%	6 IN HDPE
STO-15.2	BUILDING	STO CO 15.1	11'	908.40	908.29	1.00%	6 IN HDPE
STO-15.3	BUILDING	STO CO 15.1	11'	908.40	908.29	1.00%	6 IN HDPE
STO-16	STO INL-17	STO EW-16	28'	903.70	903.00	2.50%	12 IN HDPE
STO-17	CAR WASH	STO INL-17	108'	905.28	904.20	1.00%	6 IN HDPE
STO-18	STO EW-19	STO CB-18	35'	901.75	902.00	0.72%	12 IN HDPE

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UTILITY PLAN

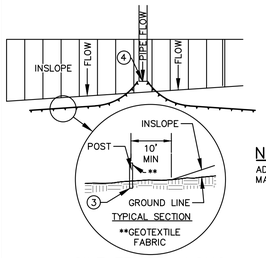
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

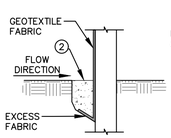
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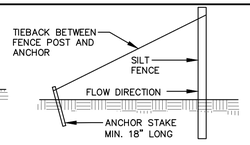


SILT FENCE ALONG SLOPES & OUTFALLS

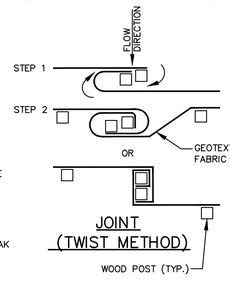


NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

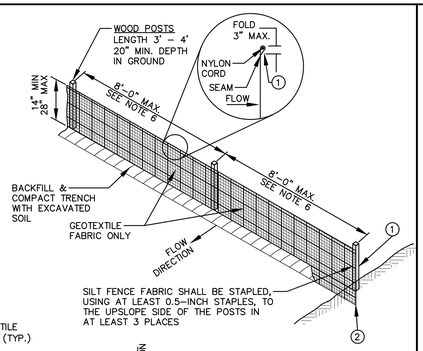
TRENCH DETAIL

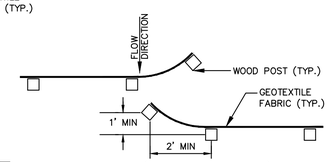


SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



JOINT (TWIST METHOD)





JOINT (HOOK METHOD)

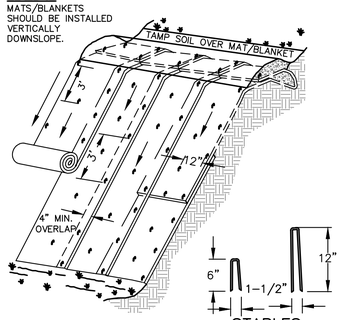
GENERAL NOTES:

1. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8–INCHES OF FABRIC IN A 4–INCH WIDE AND 6–INCH DEEP TRENCH OR 6–INCH DEEP V–TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
2. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125–INCHES x 1.125–INCHES OF DRIED OAK OR HICKORY.
4. SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
5. SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNR TECHNICAL STANDARD 1056.
6. POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8–FEET FOR WOVEN & 3–FEET FOR NON–WOVEN)

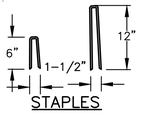
SILT FENCE
N.T.S.

REV. 7–30–2018

NOTE:
MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.

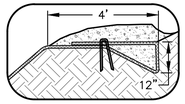


ISOMETRIC VIEW



STAPLES

TYPICAL SLOPE SOIL STABILIZATION



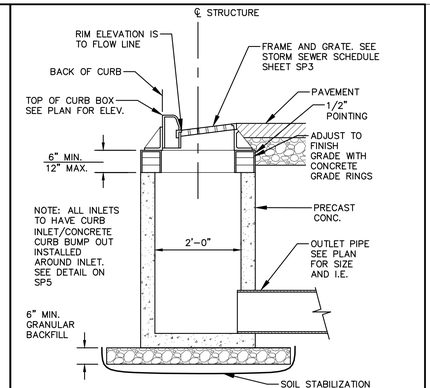
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GENERAL NOTES:

1. EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON–CHANNEL EROSION MAT".
2. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
5. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.

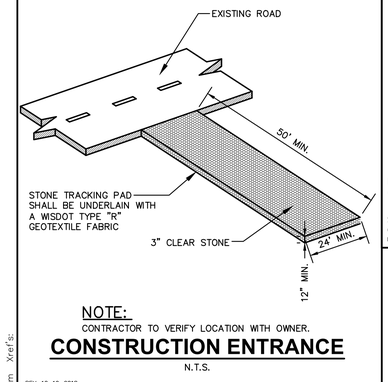
EROSION MATTING
N.T.S.

REV. 11–19–2018



REV. 11–26–2018

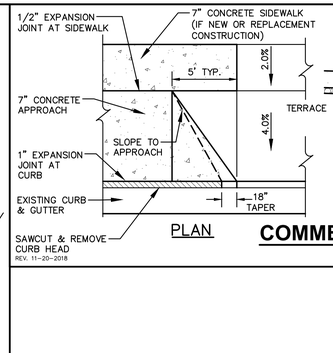
STORM INLET
N.T.S.



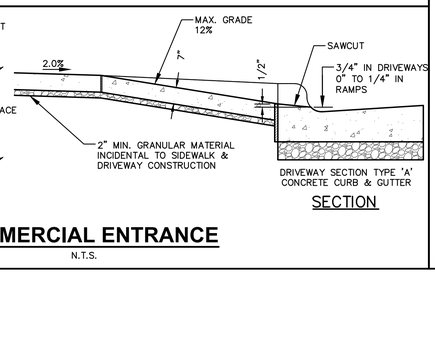
NOTE:
CONTRACTOR TO VERIFY LOCATION WITH OWNER.

CONSTRUCTION ENTRANCE
N.T.S.

REV. 12–10–2018



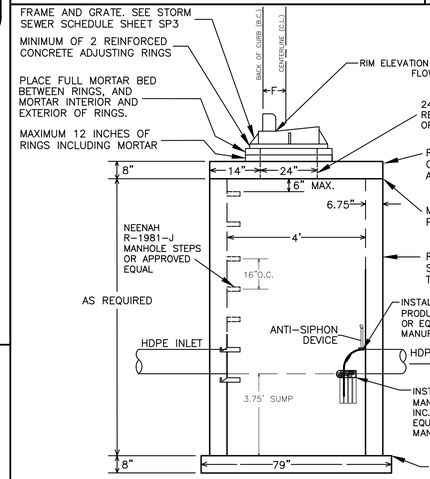
PLAN



SECTION

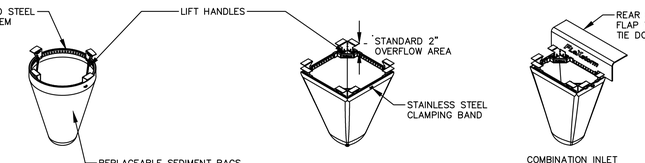
COMMERCIAL ENTRANCE
N.T.S.

REV. 11–20–2018



OIL & GREASE BAFFLE STORM MANHOLE
N.T.S.

FLEXSTORM CATCH–IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



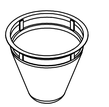
1. INDENTIFY YOUR FRAME STYLE AND SIZE		
STYLE	FRAME STYLE AND SIZE	Frame P/N:
ROUND	Small Round (up to 20.0" dia grates (A) dim)	625RD
	Med Round (20.1" - 26.0" dia grates (A) up to 25" dia openings (B))	628RD
	Large Round (26.1" - 32.0" dia grates (A) up to 30" openings (B))	628JRD
	XL Round (32.1" dia - 39" dia grates (A) up to 37" dia openings (B))	626URD
RECT/ SQUARE	Small Rect / Square (up to 16" (B) x 16" (D) openings or 64" perimeter)	625SQ
	Med Rect / Square (up to 20" (B) x 24" (D) openings or 96" perimeter)	628JSQ
	Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	626JSQ
	XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 36" (D) openings)	624JSQ
CURVED INLETS	Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	625CB
	Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	628MCB
	Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	626JCB
	XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	626CLCB
NYLOPLAST	12" diameter Nyloplast castings (Stainless Steel Framing standard)	621JNV
	15" diameter Nyloplast castings (Stainless Steel Framing standard)	621SNV
	18"diameter Nyloplast castings (Stainless Steel Framing standard)	621JNV
	24" diameter Nyloplast castings (Stainless Steel Framing standard)	622JNV
	30" diameter Nyloplast castings (Stainless Steel Framing standard)	623JNV

TYPICAL ROUND INLET FILTER



TYPICAL RECTANGULAR INLET FILTER





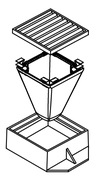
STAINLESS STEEL ROUND INLET FILTERS for NYLOPLAST CASTINGS
CATCH–ITS SPECIFIED W/ FX or FX–S BAGS

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE			
Nominal Bag Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max (CFS)	
		FX (Woven)	IL (Non Woven)
Small	1.6	1.2	0.9
Medium	2.1	1.7	1.3
Large	3.8	2.7	1.9
XL	4.2	3.6	2.6

2. SELECT YOUR BAG PART NUMBER				
FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX: Standard Woven Bag	FX	FX–S	200	40
IL: IDOT Non–Woven Bag	IL	IL–S	145	70

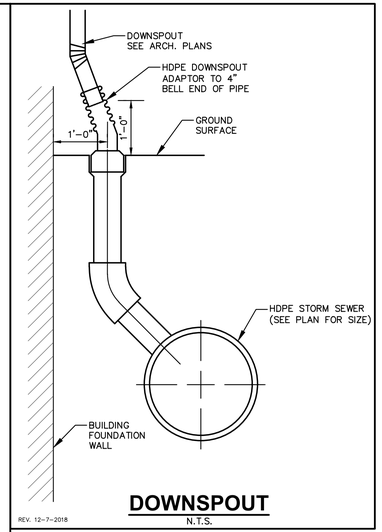
3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER		
Frame P/N from Step 1.	Filter Bag P/N from Step 2.	

INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE



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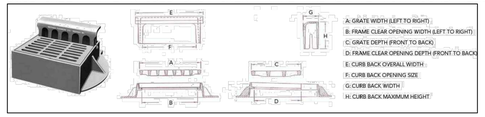


REV. 12–7–2018

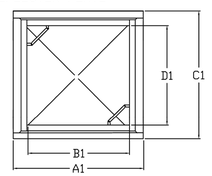
DOWNSPOUT
N.T.S.

FLEXSTORM P/Ns 62LHDFX & 62LHDFXP

SQCB INLET TYPE: RAISED CAST IRON FRAME AND GRATE WITH CURB HOOD AND DEFLECTOR PLATE



Pure Frame with FX Bag		Field Inlet Dimensions		Flexstorm Framing Dims				Flexstorm Ratings (Flow at 50% max)		Pure Frame with FX+ Bag	
		Grate Size (A x C)	Clear Opening (B x D)					Bag Capacity/ FX/FX+ Flow Rate (CFS)	Total Bypass (CFS)		
ADS P/N	Flexstorm Item Code			B1	D1	A1	C1			ADS P/N	Flexstorm Item Code
62LHDFX	FX-SQCB-298-218-274-195-FX	29.75 x 21.75	27.375 x 19.5	28.0	18.5	29.5	21.5	3.1	1.9	4.8	62LHDFXP
62LHDFX	FX-SQCB-318-214-296-190-FX	31.75 x 21.4	29.6 x 19	28.0	18.0	31.5	21.2	3.2	1.9	5.0	62LHDFXP
62LHDFX	FX-SQCB-315-214-300-196-FX	31.5 X 21.4	30 X 19.6	28.0	18.5	31.5	21.2	3.3	2.0	5.0	62LHDFXP
62LHDFX	FX-SQCB-338-218-314-194-FX	33.75 x 21.75	31.375 x 19.375	30.0	18.5	33.5	21.5	3.5	2.1	5.2	62LHDFXP
62LHDFX	FX-SQCB-340-213-321-194-FX	34 x 21.25	32.125 x 19.375	30.5	18.5	34.0	21.0	3.6	2.1	5.3	62LHDFXP
62LHDFX	FX-SQCB-340-213-323-195-FX	34 x 21.25	32.25 x 19.5	30.5	18.5	34.0	21.0	3.6	2.1	5.3	62LHDFXP
62LHDFX	FX-SQCB-353-178-330-150-FX	35.25 x 17.75	33 x 15	31.5	14.0	35.0	17.5	2.8	1.9	4.9	62LHDFXP
62LHDFX	FX-SQCB-355-175-335-150-FX	35.5 X 17.5	33.5 X 15	32.0	14.0	35.5	17.3	2.9	1.9	5.0	62LHDFXP
62LHDFX	FX-SQCB-355-178-335-160-FX	35.5 x 17.75	33.5 X 16	32.0	15.0	35.5	17.5	3.1	2.0	5.1	62LHDFXP
62LHDFX	FX-SQCB-358-238-334-210-FX	35.8 x 23.8	33.4 x 21	32.0	20.0	35.5	23.6	4.1	2.2	5.6	62LHDFXP
62LHDFX	FX-SQCB-358-239-335-218-FX	35.75 X 23.87	33.5 X 21.75	32.0	21.0	35.5	23.6	4.3	2.2	5.7	62LHDFXP
62LHDFX	FX-SQCB-355-175-330-160-FX	35.5 x 17.5	33 x 16	32.0	15.0	35.5	17.3	3.1	2.0	5.1	62LHDFXP
62LHDFX	FX-SQCB-363-218-340-205-FX	36.25 x 21.75	34 x 20.5	32.5	19.5	36.0	21.5	4.0	2.2	5.6	62LHDFXP
62LHDFX	FX-SQCB-380-169-364-151-FX	38 x 16.87	36.375 x 15.125	34.5	14.0	38.0	16.6	3.1	2.1	5.2	62LHDFXP
62LHDFX	FX-SQCB-393-229-379-210-FX	39.25(2) x 22.87	37.87 (x2) x 21	35.5	20.0	39.0	22.6	4.6	2.4	6.0	62LHDFXP
62LHDFX	FX-SQCB-395-229-379-210-FX	39.5 x 22.87	37.87 x 21	36.0	20.0	39.5	22.6	4.6	2.4	6.0	62LHDFXP
62LHDFX	FX-SQCB-375-245-378-230-FX	37.5 x 24.5	37.75 x 23	34.0	22.0	37.5	24.3	4.8	2.4	6.0	62LHDFXP
62LHDFX	FX-SQCB-381-180-355-155-FX	38.1 x 18	35.5 x 15.5	34.5	14.5	38.0	17.8	3.2	2.1	5.3	62LHDFXP
62LHDFX	FX-SQCB-278-245-280-230-FX	27.75 X 24.5	28 X 23	24.0	22.0	27.5	24.3	3.4	1.9	5.0	62LHDFXP
62LHDFX	FX-SQCB-475-245-378-230-FX	47.5 X 24.5	37.75 X 23	44.0	22.0	47.5	24.3	6.2	2.8	7.1	62LHDFXP
62LHDFX	FX-SQCB-358-238-365-273-FX	35.75 x 23.75	35.5 x 27.25	32.0	26.5	35.5	23.5	5.4	2.5	6.3	62LHDFXP
62LHDFX	FX-SQCB-480-240-440-200-FX	48 x 24	44 x 20	44.5	19.0	48.0	23.8	5.4	2.7	6.8	62LHDFXP
62LHDFX	FX-SQCB-365-244-360-291-FX	36.5 x 24.375	35 x 29.0625	33.0	28.0	36.5	24.1	5.9	2.6	6.6	62LHDFXP



NOTES:
1. RATINGS SHOWN ARE FOR STANDARD 22" BAG DEPTH; 'SHORT' 12" DEPTH BAGS ARE AVAILABLE WITH -S SUFFIX; RATINGS REDUCED BY ~50%.
2. THE FOLLOWING REQUIRES ADDITIONAL REVIEW
-GRATES WITH EXTENDED BOTTOMS
-ANY OBSTRUCTED INLET OPENINGS

FLEXSTORM INLET FILTERS PURE

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SIZE	FRAME TYPE	DWG NO	REV
C	HDCBD	SQCB-62LHD-FX	A

SCALE | SHEET 1 OF 1

KWIK TRIP STORES
KWIK STAR STORES

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

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DRAFT

DETAILS
CONVENIENCE STORE #1166
SOUTH SYENE ROAD
FITCHBURG, WI

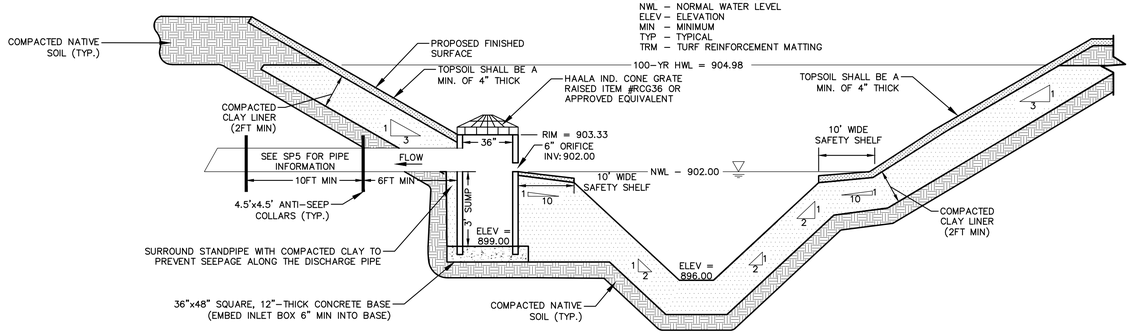
#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET SP4

File: i:\2020\209726\DWG\Civil Sheets\209726 CON DOCS.dwg Layout: SP4 Details User: msaunders Plotted: Dec 04, 2020 – 1:37pm Xref's:

DETAIL ABBREVIATIONS:

HWL – HIGH WATER LEVEL
NWL – NORMAL WATER LEVEL
ELEV – ELEVATION
MIN – MINIMUM
TYP – TYPICAL
TRM – TURF REINFORCEMENT MATTING



GENERAL NOTES:

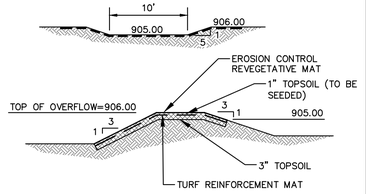
1. ALL CONSTRUCTION SHALL MEET THE SPECIFICATIONS OF "WDNR WET DETENTION BASIN TECHNICAL STANDARD 1001".
2. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER OF RECORD.
3. OWNER OR CONTRACTOR MUST CONSULT LANDSCAPE ARCHITECT OR ECOLOGICAL PLANNING AGENCY FOR APPROPRIATE PLANTS AND PLANTING CONFIGURATIONS.
4. CLAY LINER SHALL BE A MINIMUM OF 2-FEET THICK. CLAY SHALL BE COMPACTED AT ±2.0% OPTIMAL MOISTURE CONTENT TO 90% MODIFIED PROCTOR. MEDIUM STIFF TO STIFF CLAYS PRESENT IN-PLACE AT THE POND SIDE SLOPES OR BOTTOM OR OTHER ONSITE MEDIUM STIFF TO STIFF CLAYS MAY BE USED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER OF RECORD.
5. FOR CONSTRUCTED EMBANKMENTS WHERE THE PERMANENT POOL IS PONDED 3-FEET OR MORE AGAINST THE EMBANKMENT, THERE SHALL BE A CORE TRENCH OR KEYWAY ALONG THE CENTERLINE OF THE EMBANKMENT UP TO THE PERMANENT POOL ELEVATION. THE CORE TRENCH OR KEYWAY SHALL BE A MINIMUM OF 2-FEET DEEP AND 8-FEET WIDE WITH A SIDE SLOPE OF 1:1 OR FLATTER.
6. CONTRACTOR SHALL POSITION ANTI-SEEP COLLAR SUCH THAT THE COLLARS ARE COMPLETELY CONTAINED WITHIN EMBANKMENT.
7. CONTRACTOR SHALL FIT STANDPIPE WITH REMOVABLE CONSTRUCTION ORIFICE PLATE OVER THE PERMANENT DEWATERING ORIFICE. THE CONSTRICTION ORIFICE SHALL REMAIN IN PLACE UNTIL 70% VEGETATION IS ESTABLISHED OVER THE CONTRIBUTING AREA OF THE POND.
8. IMMEDIATELY INSTALL FILTER FABRIC OVER ALL OUTLETS TO PREVENT SEDIMENT DEPOSITION IN THE PIPING. (REMOVE FOLLOWING CONTRIBUTING AREA STABILIZATION)
9. THE TRASH GRATE OVER THE PERMANENT DEWATERING ORIFICE SHALL BE ADDED FOLLOWING REMOVAL OF THE CONSTRUCTION ORIFICE.

NOTE:

THE STORMWATER MANAGEMENT FEATURES CONTAINED WITHIN THIS PLAN SET HAVE BEEN DESIGNED IN ACCORDANCE WITH APPLICABLE STANDARDS SET FORTH IN WISCONSIN DNR NR151 AND LOCAL ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER CONSTRUCTION PRACTICES HAVE BEEN UTILIZED AND THAT STORMWATER MANAGEMENT FEATURES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED DESIGN PLANS. JSD PROFESSIONAL SERVICES, INC. (JSD) SHALL NOT BE LIABLE FOR ANY CONSTRUCTION PRACTICES OR INSTALLATION WHICH DEVIATES FROM THE APPROVED PLAN SET. ONCE THE OWNER HAS PROVIDED FINAL APPROVAL TO THE WORK PERFORMED BY THE CONTRACTOR AND ENSURED COMPLIANCE WITH THE PLAN, IT IS THE OWNER'S RESPONSIBILITY TO MAINTAIN STORMWATER MANAGEMENT FEATURES IN ACCORDANCE WITH THE RECORDED MAINTENANCE AGREEMENT. PROPER OPERATION IS DEPENDENT ON A MULTITUDE OF VARIABLES INCLUDING WEATHER. THESE COMPONENTS REQUIRE ONGOING MAINTENANCE FOR WHICH THE OWNER IS RESPONSIBLE. JSD TAKES NO RESPONSIBILITY FOR PROPER OPERATION OF THE WATER QUALITY COMPONENTS.

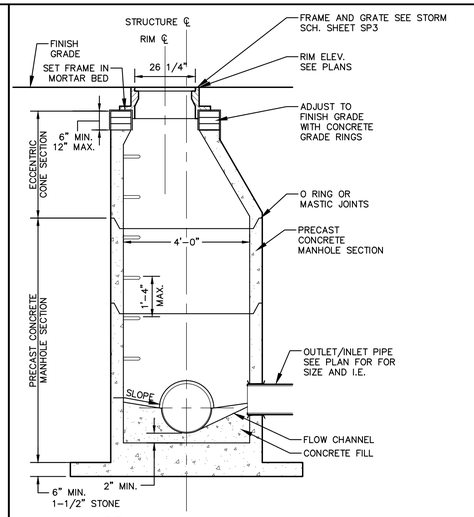
WET POND CROSS SECTION

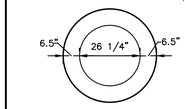
N.T.S.



OVERFLOW WEIR

N.T.S.





FLAT TOP SLAB

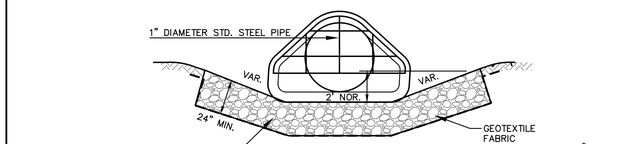
GENERAL NOTES:

1. MANHOLE CONSTRUCTION TO MEET REQUIREMENTS OF ASTM C478.
2. PROVIDE FLAT TOP SLAB FOR MANHOLES 5' OR LESS IN DEPTH. FLAT TOP SLABS TO BE IN-BELL TYPE.
3. JOINTS SHALL BE WATERTIGHT. USE BUTYL RUBBER GASKET.
4. USE MORTAR FOR PIPE CONNECTIONS.
5. ECCENTRIC CONE SECTION OF MANHOLE TO BE SET OUTSIDE OF VEHICULAR WHEEL PATH NEAR ℄ ROADWAY.
6. USE NEENAH R-2501-G BEEHIVE FRAME AND GRATE WHEN IN LANDSCAPE AREAS.

STORM SEWER MANHOLE

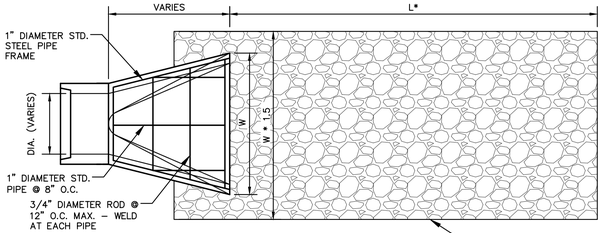
REV. 12-07-2018

N.T.S.

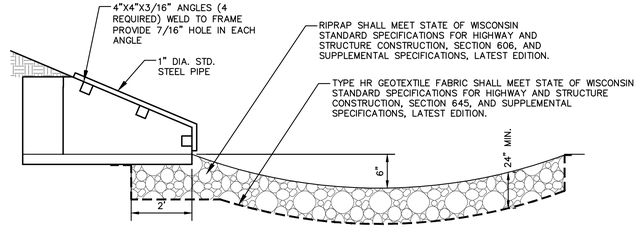


END VIEW

* L = 3 TIMES DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER



PLAN

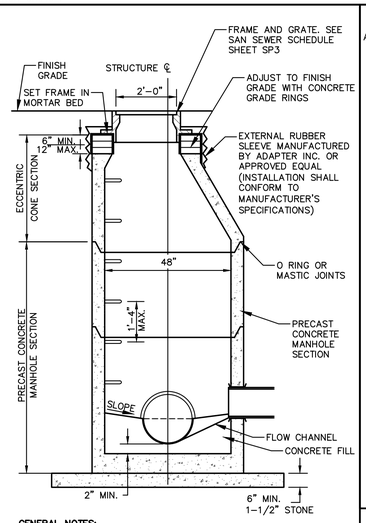


SIDE VIEW

APRON ENDWALL W/ GRATE - RIPRAP

N.T.S.

REV. 12-7-2018



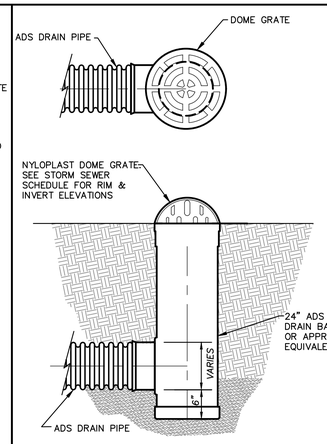
GENERAL NOTES:

1. MANHOLE CONSTRUCTION TO MEET REQUIREMENTS OF ASTM C478.
2. JOINTS SHALL BE WATERTIGHT. USE BUTYL RUBBER GASKET.
3. USE MORTAR FOR PIPE CONNECTIONS.
4. ALL MANHOLES SHALL HAVE RUBBER CHIMNEY BOOT SEALS.

SANITARY SEWER MANHOLE

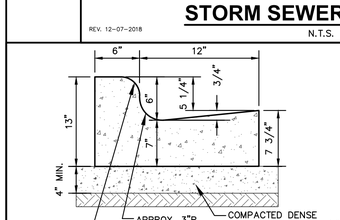
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REV. 12-6-2018



24" PVC DRAIN BASIN

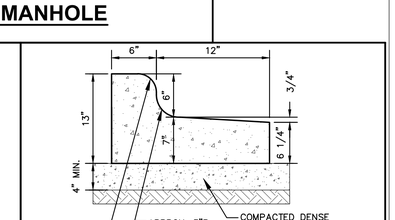
N.T.S.



18" STANDARD CURB & GUTTER

N.T.S.

REV. 12-17-2018



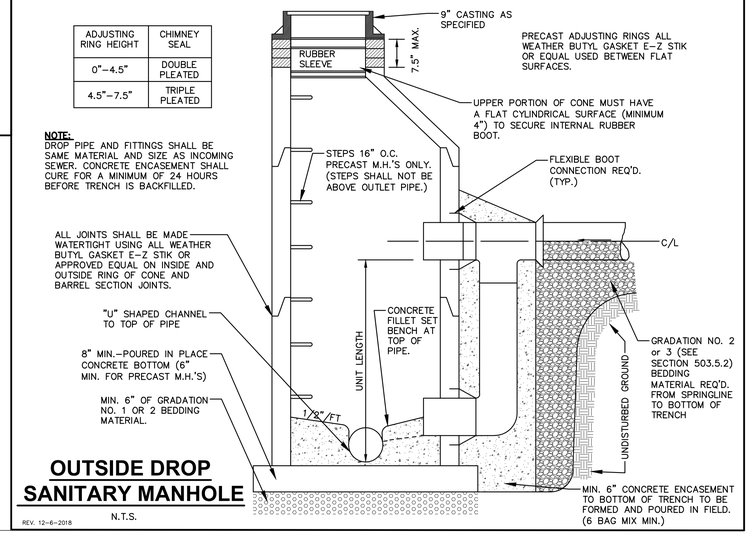
18" REJECT CURB & GUTTER

N.T.S.

REV. 12-17-2018

ADJUSTING RING HEIGHT	CHIMNEY SEAL
0"-4.5"	DOUBLE PLEATED
4.5"-7.5"	TRIPLE PLEATED

NOTE:
DROP PIPE AND FITTINGS SHALL BE SAME MATERIAL AND SIZE AS INCOMING SEWER. CONCRETE ENCASEMENT SHALL CURE FOR A MINIMUM OF 24 HOURS BEFORE TRENCH IS BACKFILLED.



OUTSIDE DROP SANITARY MANHOLE

N.T.S.

REV. 12-6-2018

KWIK TRIP STORES

KWIK STAR STORES

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
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JSD Professional Services, Inc. — Engineers • Surveyors • Planners
MADISON MILWAUKEE WAUSAU APPLETON KENOSHA CHICAGO COEUR D'ALENE

DRAFT

DETAILS

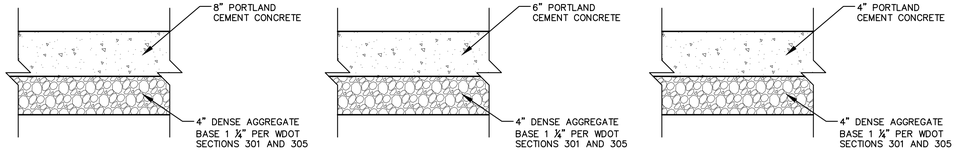
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET SP4.1

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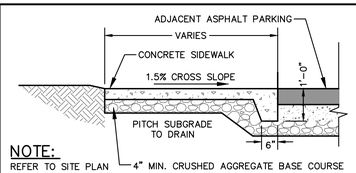
HEAVY DUTY CONCRETE SECTION | STANDARD CONCRETE SECTION | CONCRETE SIDEWALK SECTION

GENERAL NOTES:

1. REFER TO PAVEMENT RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT, PREPARED BY GILES ENGINEERING ASSOCIATES, INC., DATED AUGUST 19, 2020 (PROJECT NO. 16-2007016). IF THERE ARE ANY DISCREPANCIES BETWEEN THIS DETAIL AND THE PAVEMENT RECOMMENDATIONS PROVIDED IN THE GEOTECHINCAL INVESTIGATION REPORT, THE GEOTECHNICAL REPORT SHALL GOVERN.
2. WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, INCLUDING SUPPLEMENTAL SPECIFICATIONS, COMPACTION REQUIREMENTS:
   - BITUMINOUS CONCRETE: REFER TO SECTION 460-3.
   - BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION.
3. CONSULT OWNER FOR REINFORCEMENT, IF ANY, AND MIX DESIGN.

REV. 12-17-2018

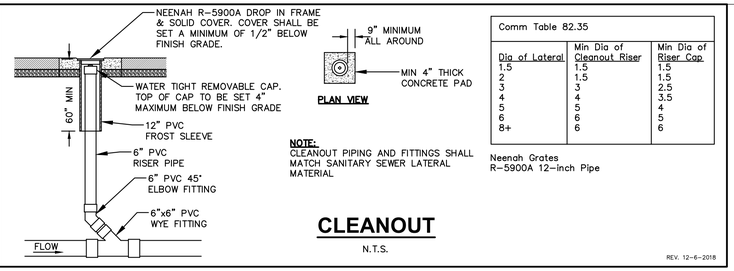
PAVEMENT SECTIONS
N.T.S.



NOTE:
REFER TO SITE PLAN FOR CONSTRUCTION AND CONTROL JOINT LOCATIONS

THICKENED EDGE SIDEWALK - FLUSH
N.T.S.

REV. 11-20-2018



NOTE:
CLEANOUT PIPING AND FITTINGS SHALL MATCH SANITARY SEWER LATERAL MATERIAL

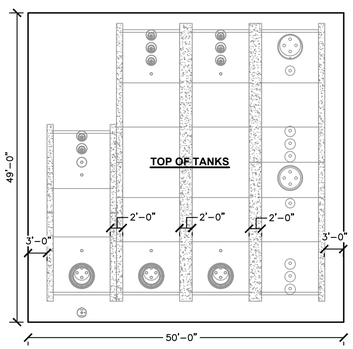
Comm Table 82.35

Dia of Lateral	Min Dia of Cleanout Riser	Min Dia of Riser Cap
1.5	1.5	1.5
2	1.5	1.5
3	3	2.5
4	4	3.5
5	5	4
6	6	5
8+	6	6

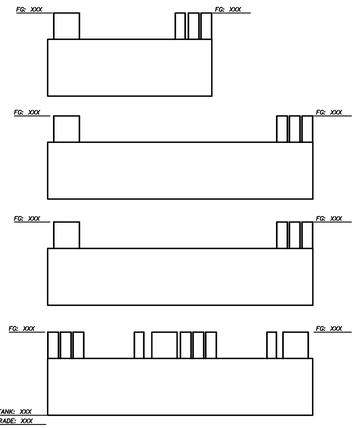
Neenah Grates
R-5900A 12-Inch Pipe

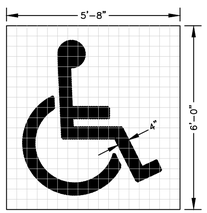
CLEANOUT
N.T.S.

REV. 12-6-2018



TANK DIAGRAM
N.T.S.

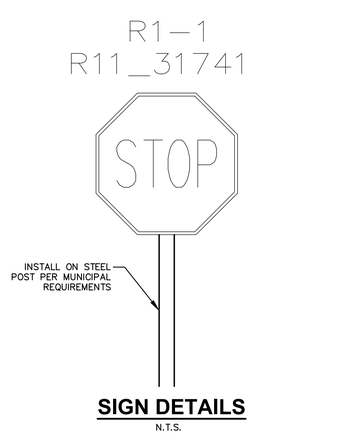




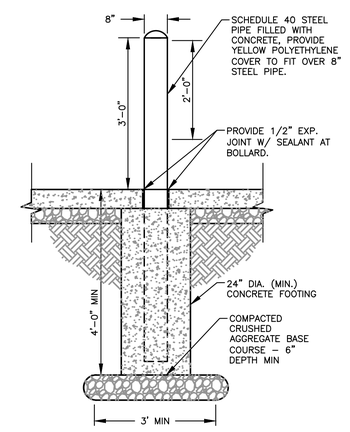
4"x4" GRID FOR LAYOUT PURPOSES ONLY FOR ALL ACCESSIBLE AND VAN ACCESSIBLE SPACES

NOTE:
SYMBOL DETAILS ARE SHOWN FOR INTENT ONLY. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS PRIOR TO CONSTRUCTION.

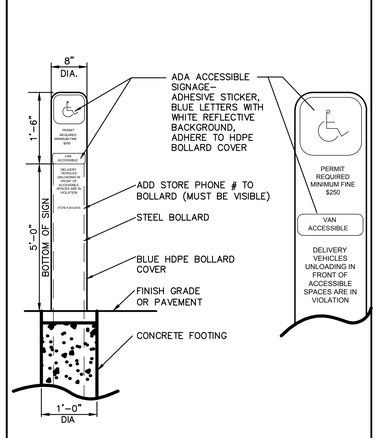
HANDICAP MARKING SYMBOL
N.T.S.



SIGN DETAILS
N.T.S.



CONCRETE BOLLARD
N.T.S.



ADA BOLLARD SIGNAGE
N.T.S.

KWIK TRIP, Inc.
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DETAILS

CONVENIENCE STORE #1166
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1	11/17/20	MUNICIPAL SUBMITTAL
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DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET SP4.2

File: I:\2020\209726\DWG\Civil Sheets\209726 CON DOCS.dwg Layout: SP4.2 Details User: msaunders Plotted: Dec 04, 2020 - 1:38pm Xref's:

GENERAL NOTES

1. REFER TO THE EXISTING CONDITIONS ALTA/NSPS LAND TILE SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
2. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
3. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
5. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

CONSTRUCTION SEQUENCING

1. INSTALL PERIMETER SILT FENCE, INLET PROTECTION AND TEMPORARY CONSTRUCTION ENTRANCE.
2. DEMO EXISTING BUILDINGS AND PAVEMENTS. CLEAR AND GRUB ALL TREES AND SHRUBS WITHIN PROPERTY LIMITS.
3. STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
4. ROUGH GRADE WET BASIN AND INSTALL BASIN OUTLET.
5. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AS NEEDED. DIRECT ALL RUNOFF TO PERIMETER CONTROLS.
6. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION IN ALL NEW INLETS.
7. COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
8. PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.
9. RESTORE WET BASIN (FINAL GRADE BASIN PER PLAN REQUIREMENTS)
10. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED.

CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

GRADING AND SEEDING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
4. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
7. CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
8. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
10. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND MUNICIPALITY ORDINANCE.

STORMWATER FACILITIES CONSTRUCTION NOTES

1. ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF STORMWATER MANAGEMENT FACILITIES. CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES SHALL BE OBSERVED AND DOCUMENTED BY THE ENGINEER, OR AN OWNER'S REPRESENTATIVE.
2. STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AFTER SUBSTANTIAL COMPLETION OF FINAL SITE GRADING AND SOILS HAVE BEEN STABILIZED.
3. AREAS USED FOR TEMPORARY SEDIMENT BASINS SHALL BE REMOVED IN THEIR ENTIRETY AFTER CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES AND STABILIZATION OF CONTRIBUTING SITE AREAS.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. ENGINEER OF RECORD AND APPROPRIATE MUNICIPALITY OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND MUNICIPALITY ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.
3. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE, STONE CHECK DAMS, AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE MUNICIPALITY PRIOR TO DEVIATION OF THE APPROVED PLAN.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
5. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
6. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.
7. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. ADDITIONAL LOCATIONS OTHER THAN AS SHOWN ON THE PLANS MUST BE PRIOR APPROVED BY THE MUNICIPALITY. CONSTRUCTION ENTRANCES SHALL BE 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED.
8. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEPT AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE MUNICIPALITY.
9. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY INSTALLED AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.
10. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES. IF STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A "TACKIFIER."
11. DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.
12. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
    A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
    B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
    C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
13. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS III, TYPE C EROSION MATTING. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.
14. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
15. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.
16. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH WDNR REQUIREMENTS AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS.
17. STABILIZATION PRACTICES:
    - 17.1. *STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS:
    - 17.2. *THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
    - 17.3. *CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS. IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.
    - 17.4. *STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME OF CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES:
        - * PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SPECIFICATION
        - * TEMPORARY SEEDING; MAY CONSIST OF OATS (131LBS/ACRE) FOR SPRING AND SUMMER SEEDING AND/OR WINTER WHEAT OR CEREAL RYE (131LB/ACRE) FOR FALL SEEDING
        - * HYDRO-MULCHING WITH A TACKIFIER
        - * GEOTEXTILE EROSION MATTING
        - * SODDING

UTILITY NOTES

1. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
    - * EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
    - * OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
    - * VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
    - * NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
    - * NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
    - * COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
3. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN – AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
4. SPECIFICATIONS SHALL COMPLY WITH THE MUNICIPALITY SPECIAL PROVISIONS.
5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
7. CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
8. CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
9. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
10. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
12. STORM SEWER SPECIFICATIONS –

    PIPE – HIGH DENSITY DUAL-WALL POLYETHYLENE CORRUGATED PIPE SHALL BE AS MANUFACTURED BY ADS OR EQUAL WITH WATER TIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M-294 TYPE "S".

    INLETS – INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE. NO. 28 OF THE "STANDARD SPECIFICATIONS", OR APPROVED EQUAL WITH A 1'-8" X 2'-6" MAXIMUM OPENING. CURB FRAME & GRATE SHALL BE NEENAH R-3067 WITH TYPE R GRATE, OR EQUAL.

    BACKFILL AND BEDDING – STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

    MANHOLE FRAMES AND COVERS – MANHOLE FRAMES AND COVERS SHALL BE NEENAH R-1550 WITH TYPE "B" SELF SEALING LIDS, NON-ROCKING OR EQUAL.

    FIELD TILE CONNECTION – ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER.
13. WATER MAIN SPECIFICATIONS –

    PIPE – DUCTILE IRON PIPE SHALL BE CLASS 52 CONFORMING TO AWWA C151 AND CHAPTER 8.18.0 OF THE "STANDARD SPECIFICATIONS". POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C-900, CLASS 150, DR-18, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

    VALVES AND VALVE BOXES – GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.27.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

    BEDDING AND COVER MATERIAL – PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

    BACKFILL – BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

    WATER MAIN BENDS, FITTINGS, AND VALVES SHALL BE RESTRAINED OR THRUST BLOCKS PROVIDED.
14. SANITARY SEWER SPECIFICATIONS –

    PIPE – SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D-3212.

    BEDDING AND COVER MATERIAL – BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (A). BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO PROVIDE ADEQUATE COMPACTING OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."

    BACKFILL – BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS." GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS."

    MANHOLES – MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE NOS. 12, 13 AND 15 OF THE "STANDARD SPECIFICATIONS" AND ALL SPECIAL PROVISIONS OF THE MUNICIPALITY.

    MANHOLE FRAMES AND COVERS – MANHOLE FRAMES AND COVERS SHALL BE NEENAH R-1642 WITH TYPE "B" SELF SEALING LIDS, NON-ROCKING OR EQUAL.
15. WATERMAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6 FEET. INSULATION AND INSTALLATION OF INSULATION SHALL BE CONFORMING WITH CHAPTER 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

PAVING NOTES

1. GENERAL
    - 1.1. ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION, APPLICABLE CITY OF VERONA ORDINANCES AND THE GEOTECHNICAL REPORT PREPARED BY GILES ENGINEERING ASSOCIATES, INC. DATED FEBRUARY 21, 2019.
    - 1.2. ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.
    - 1.3. SURFACE PREPARATION – NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
    - 1.4. ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATCH EXISTING AND MEET MUNICIPALITY REQUIREMENTS.
2. CONCRETE PAVING SPECIFICATIONS
    - 2.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
    - 2.2. CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
    - 2.3. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
    - 2.4. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
    - 2.5. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
    - 2.6. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
    - 2.7. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
3. PAVEMENT MARKING SPECIFICATIONS
    - 3.1. USE 4" WIDE, HIGH VISIBILITY YELLOW LATEX PAINT FOR STALL LINES.
    - 3.2. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
    - 3.3. ALL PAVEMENT MARKINGS INCLUDING: STOP BARS, CROSSWALKS, DIRECTIONAL ARROWS, PARKING STALL LINES, ADA STALL MARKINGS, NO PARKING ZONES, DROP-OFF/PICK-UP ZONES SHALL BE PAINTED WITH LATEX PAINT PER SPECIFICATIONS.

FIRE DEPARTMENT CONSTRUCTION ACCESS NOTES

1. REQUIRED. EVERY BUILDING CONSTRUCTION SITE SHALL BE ACCESSIBLE TO FIRE DEPARTMENT APPARATUS BY WAY OF AN ACCESS ROADWAY. AN ACCESS ROADWAY SHALL BE IN PLACE AND ACCESSIBLE TO FIRE EQUIPMENT PRIOR TO THE DELIVERY OF ANY COMBUSTIBLE CONSTRUCTION MATERIALS.
2. ACCESS ROADWAYS SHALL BE EXTENDED TO WITHIN 30 FEET OF THE CLOSEST EDGE OF THE BUILDING AND SHALL HAVE NOT LESS THAN 20 FEET OF UNOBSTRUCTED WIDTH AND A MINIMUM OF 13 FEET SIX INCHES OF VERTICAL CLEARANCE. ACCESS ROADWAYS IN EXCESS OF 300 FEET IN LENGTH, SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR A TURNAROUND ADEQUATE FOR FIRE DEPARTMENT APPARATUS. A DRIVING SURFACE OF AT LEAST ROADBASE QUALITY GRAVEL SHALL BE MAINTAINED AT ALL TIMES IN ORDER THAT ALL-WEATHER INTEGRITY IS ENSURED. THE ROADBASE SHALL BE CAPABLE OF SUPPORTING THE IMPOSED LOADS OF FIRE APPARATUS.
3. MAINTENANCE. DURING WINTER MONTHS THE ROADS SHALL BE MAINTAINED BY THE DEVELOPER TO INCLUDE PROPER AND TIMELY SNOW REMOVAL.
4. PENALTY FOR NONCOMPLIANCE. IN ADDITION TO ALL OTHER APPLICABLE REMEDIES, FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL RESULT IN REVOCATION OF BUILDING PERMITS OR REFUSAL TO ISSUE PERMITS.

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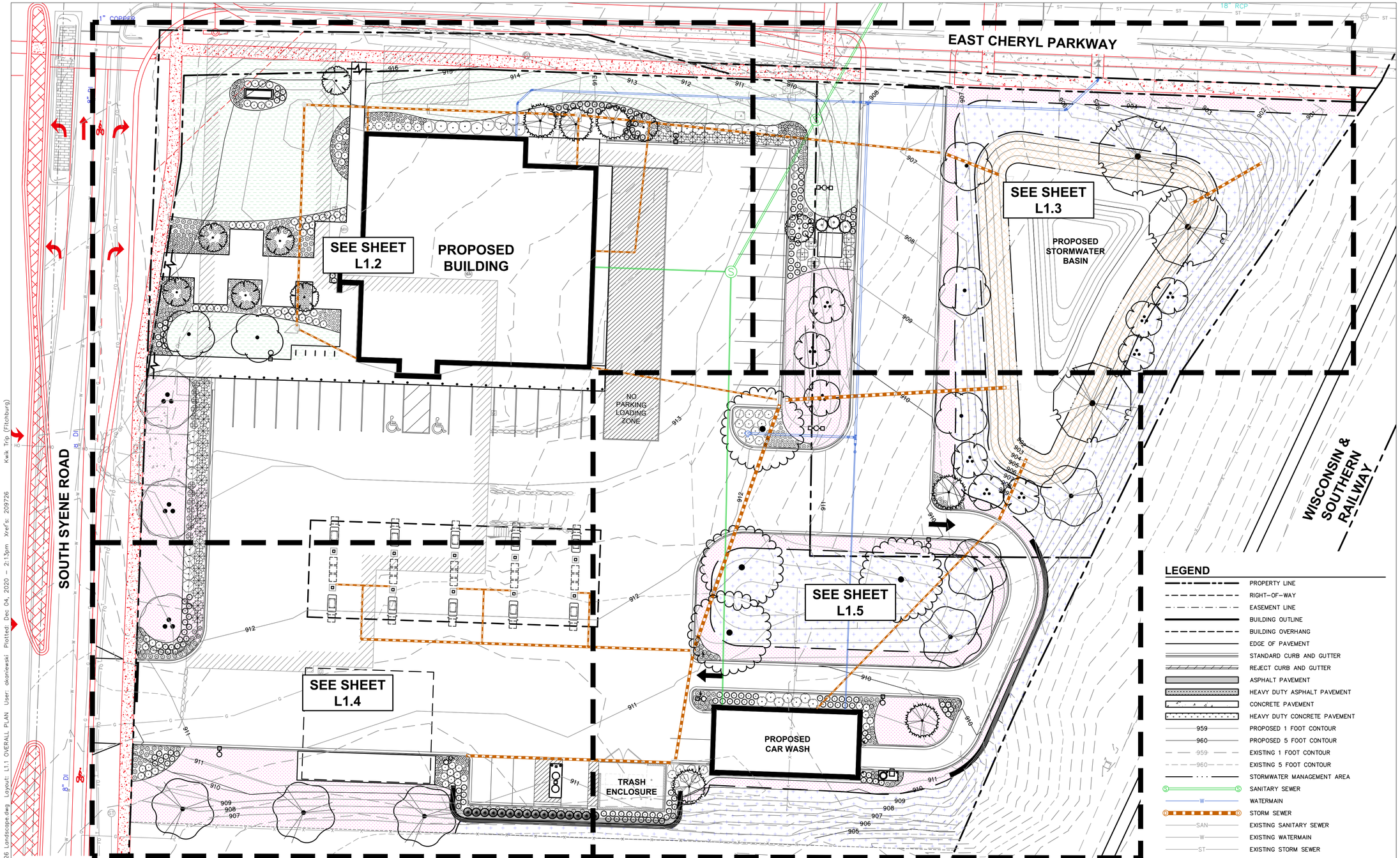
DRAFT

NOTES
CONVENIENCE STORE #1166
SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET SP5

File: I:\2020\209726\DWG\Civil Sheets\209726 CON DOCS.dwg Layout: SP5 Notes User: msaunders Plotted: Dec 04, 2020 - 1:38pm Xref's:



GENERAL NOTES

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
2. ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE MUNICIPAL STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
4. DRAWING FOR REVIEW – NOT FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE TITLE BLOCK.
5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND TOPSOILING WITH GENERAL CONTRACTOR
6. REFER TO "LANDSCAPE DETAILS AND NOTES" SHEET FOR ADDITIONAL DETAILS, NOTES AND SPECIFICATION INFORMATION INCLUDING MATERIALS, GUARANTEE AND EXECUTION RELATED TO LANDSCAPE PLAN
7. CONTRACTOR SHALL REVIEW SITE CONDITIONS FOR UTILITY CONFLICTS, DRAINAGE ISSUES, SUBSURFACE ROCK, AND PLANT PLACEMENT CONFLICTS PRIOR TO PLANT INSTALLATION. REPORT ANY CONDITIONS THAT MAY HAVE ADVERSE IMPACT ON PLANTING OPERATIONS TO LANDSCAPE ARCHITECT
8. DO NOT COMMENCE PLANTING OPERATIONS UNTIL ALL ADJACENT SITE IMPROVEMENTS, IRRIGATION INSTALLATION (IF APPLICABLE), AND FINISH GRADING ARE COMPLETE

north

SCALE IN FEET

20' 0 20'

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LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- 959 PROPOSED 1 FOOT CONTOUR
- 960 PROPOSED 5 FOOT CONTOUR
- 959 EXISTING 1 FOOT CONTOUR
- 960 EXISTING 5 FOOT CONTOUR
- STORMWATER MANAGEMENT AREA
- S SANITARY SEWER
- W WATERMAIN
- D STORM SEWER
- SAN EXISTING SANITARY SEWER
- W EXISTING WATERMAIN
- ST EXISTING STORM SEWER
- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- ADA PARKING SIGN
- BOLLARD
- BOLLARD WITH ADA PARKING SIGN
- BIKE RACK
- POLYETHYLENE EDGING
- SEEDING LIMITS
- SOD
- TURFGRASS SEED MIX
- PRAIRIE SEED MIX
- DETENTION BASIN SEED MIX

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OVERALL LANDSCAPE PLAN

CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY	MWS
SCALE	REFER TO PLAN
JSD PROJ. NO.	20-9726
DATE	12/07/2020
SHEET	L1.1

File: I:\2020\209726\DWG\Landscape Sheets\209726 Landscape.dwg Layout: L1.1 OVERALL PLAN User: akaniewski Plotted: Dec 04, 2020 - 2:13pm Xref's: 209726

EAST CHERYL PARKWAY

SOUTH SYENE ROAD

MONUMENT SIGN

8 – SN
5 – HA
12 – CN
5 – CK

SHREDDED HARDWOOD BARK MULCH, TYP.

1 – MR

28 – CN
7 – SN

23 – CN
6 – TM

10 – PC

3 – PD
26 – PV

17 – HA
1 – MR

SHREDDED HARDWOOD BARK MULCH, TYP.

9 – PC
11 – JS2

MATCHLINE

SEE SHEET L1.3

5 – SN
28 – SA
1 – MR

1 – MR
25 – HA
29 – SA

15 – SN

24 – HA
34 – CN

PROPOSED BUILDING

SHREDDED HARDWOOD BARK MULCH, TYP.

1 – MR
48 – SA

1 – MR
23 – SA
14 – SN

5 – CK
18 – SA

21 – CN
1 – MR
5 – SN

35 – SA
9 – CK
27 – HA

2 – GB

BIKE RACK (SEE SITE PLAN)

MATCHLINE

NO PARKING LOADING ZONE

SEE SHEET L1.5

6 – CR
1 – BH
4 – PC
20 – JS2

SHREDDED HARDWOOD BARK MULCH, TYP.

1 – BH

MATCHLINE

SEE SHEET L1.4

PLANT SCHEDULE (COMPREHENSIVE PLANT SCHEDULE ON SHEET L1.6)

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME
	AF	Acer x freemanii 'Marmo' / Marmo Freeman Maple
	BH	Betula nigra 'BNMTF' TM / Dura Heat River Birch (Multi-Stem)
	CO	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry
	GB	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree
	QB	Quercus bicolor / Swamp White Oak
EVERGREEN TREE	CODE	BOTANICAL / COMMON NAME
	PD	Picea glauca 'Densata' / Black Hills Spruce
	TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
	TT	Thuja occidentalis 'Techny' / Techny Arborvitae
ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME
	AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry (MS)
	MR	Malus x 'Royal Raindrops' / Royal Raindrops Crabapple
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME
	AB	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry
	CR	Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra
	PC	Physocarpus opulifolius 'Center Glow' / Center Glow Ninebark
	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
	SN	Spiraea japonica 'SMNSJMFR' TM / Double Play Red Spirea
	VJ	Viburnum x juddii / Judd Viburnum
EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME
	JS2	Juniperus x pfitzeriana 'Sea Green' / Sea Green Juniper
	TM	Taxus x media 'Everlow' / Everlow Yew
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME
	CK	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass
	CN	Calamintha nepeta 'Montrose White' / Montrose White Catmint
	EP	Echinacea purpurea / Coneflower
	HA	Hemerocallis x 'Chicago Apache' / Daylily
	PV	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
	SA	Sesleria autumnalis / Autumn Moor Grass

SCALE IN FEET
10' 0 10'

north

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DETAILED LANDSCAPE PLAN

CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY	MWS
SCALE	REFER TO PLAN
JSD PROJ. NO.	20-9726
DATE	12/07/2020
SHEET	L1.2

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MATCHLINE

SEE SHEET L1.2

SHREDDED HARDWOOD BARK MULCH, TYP.

18 – CN
6 – SN
15 – HA
3 – HA

1 – GB

6 – CK
3 – TT
3 – VJ

1 – MR
30 – CK
3 – VJ

TRANSFORMER PAD

SEEDING LIMITS

PROPOSED STORMWATER BASIN

2 – QB

3 – AG

1 – QB

MATCHLINE

1 – CO
29 – SA
13 – RG

SHREDDED HARDWOOD BARK MULCH, TYP.

SEE SHEET L1.5

17 – SA
1 – PD

DECORATIVE STONE MULCH, TYP.

1 – CO

3 – AG
1 – AF

SEEDING LIMITS

SCALE IN FEET
10' 0 10'

north

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PLANT SCHEDULE (COMPREHENSIVE PLANT SCHEDULE ON SHEET L1.6)

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME
	AF	Acer x freemanii 'Marmo' / Marmo Freeman Maple
	BH	Betula nigra 'BNMTF' TM / Dura Heat River Birch (Multi-Stem)
	CO	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry
	GB	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree
	QB	Quercus bicolor / Swamp White Oak
EVERGREEN TREE	CODE	BOTANICAL / COMMON NAME
	PD	Picea glauca 'Densata' / Black Hills Spruce
	TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
	TT	Thuja occidentalis 'Techny' / Techny Arborvitae
ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME
	AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry (MS)
	MR	Malus x 'Royal Raindrops' / Royal Raindrops Crabapple
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME
	AB	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry
	CR	Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra
	PC	Physocarpus opulifolius 'Center Glow' / Center Glow Ninebark
	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
	SN	Spiraea japonica 'SMNSJMFR' TM / Double Play Red Spirea
	VJ	Viburnum x juddii / Judd Viburnum
EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME
	JS2	Juniperus x pfitzeriana 'Sea Green' / Sea Green Juniper
	TM	Taxus x media 'Everlow' / Everlow Yew
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME
	CK	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass
	CN	Calamintha nepeta 'Montrose White' / Montrose White Catmint
	EP	Echinacea purpurea / Coneflower
	HA	Hemerocallis x 'Chicago Apache' / Daylily
	PV	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
	SA	Sesleria autumnalis / Autumn Moor Grass

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CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
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JSD PROJ. NO.	20-9726
DATE	12/07/2020
SHEET	L1.3

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SOUTH SYENE ROAD

6 – CR
1 – BH
4 – PC
2Ø – JS2
7 – CR

SEE SHEET L1.2

MATCHLINE

NO PARKING LOADING ZONE

MATCHLINE

SEE SHEET L1.5

1 – BH

MATCHLINE

4 – PC

SHREDDED HARDWOOD BARK MULCH, TYP.

17 – CK
5 – SN
25 – HA

SHREDDED HARDWOOD BARK MULCH, TYP.

1 – BH

6 – SN
2Ø – HA
9 – CK

SHREDDED HARDWOOD BARK MULCH, TYP.

DECORATIVE STONE MULCH, TYP.

25 – CN
11 – SN
6 – CK
15 – HA
16 – TH

MATCHLINE

TRASH ENCLOSURE

1 – AF

1 – AF

1 – AF

SEEDING LIMITS

SCALE IN FEET
10' 0 10'

north

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PLANT SCHEDULE (COMPREHENSIVE PLANT SCHEDULE ON SHEET L1.6)

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME
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EVERGREEN SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**
	JS2	Juniperus x pfitzeriana 'Sea Green' / Sea Green Juniper
	TM	Taxus x media 'Everlow' / Everlow Yew
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	CN	Calamintha nepeta 'Montrose White' / Montrose White Catmint
	EP	Echinacea purpurea / Coneflower
	HA	Hemerocallis x 'Chicago Apache' / Daylily
	PV	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
	SA	Sesleria autumnalis / Autumn Moor Grass

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DETAILED LANDSCAPE PLAN

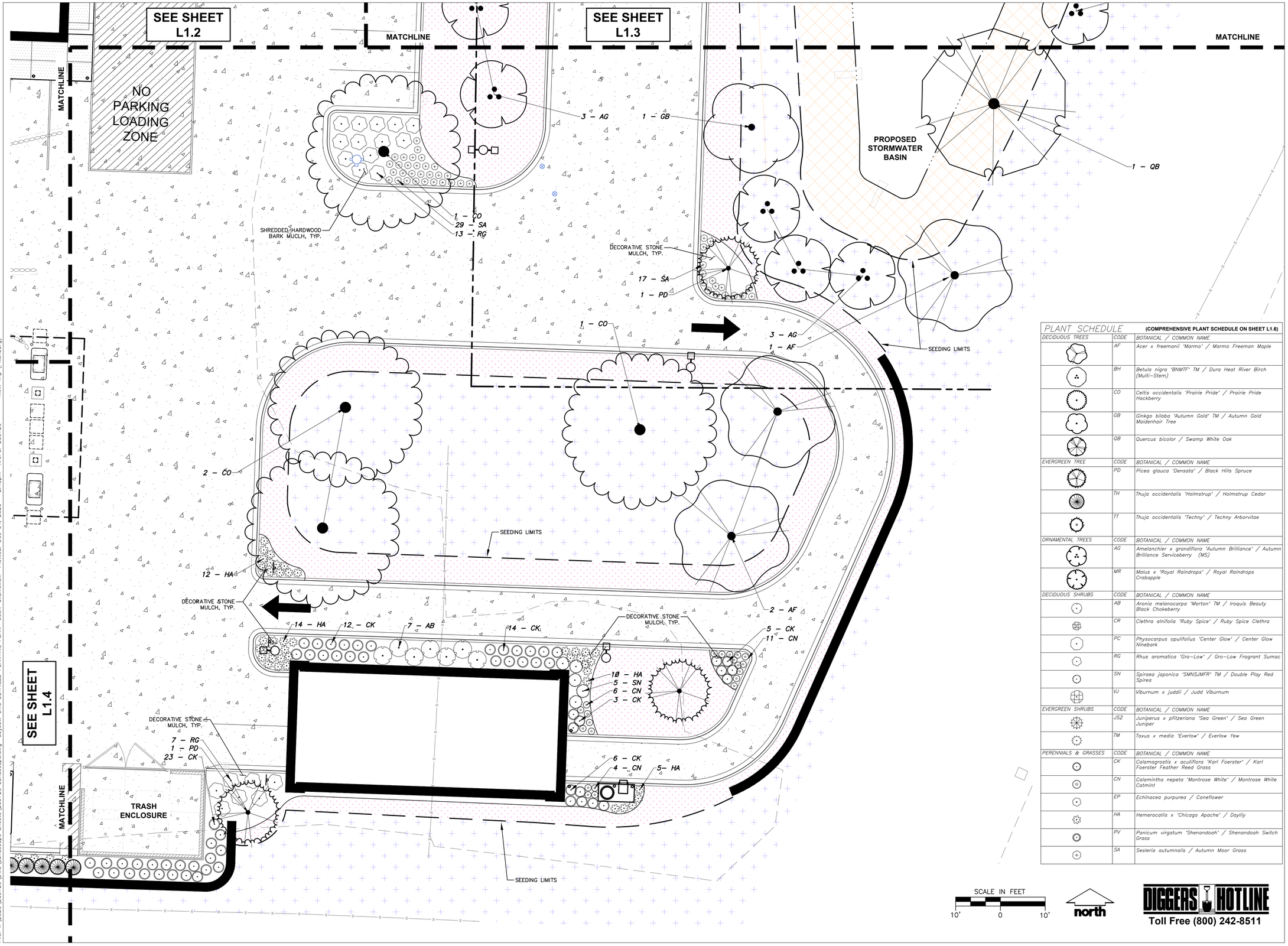
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY	MWS
SCALE	REFER TO PLAN
JSD PROJ. NO.	20-9726
DATE	12/07/2020
SHEET	L1.4

File: I:\2020\209726\DWG\Landscape Sheets\209726 Landscape.dwg Layout: L1.4 DETAILED PLANTING PLAN User: akaniewski Plotted: Dec 04, 2020 – 2:15pm Xref's: 209726 Kwik Trip (Fitchburg)



PLANT SCHEDULE		(COMPREHENSIVE PLANT SCHEDULE ON SHEET L1.6)
DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME
	AF	Acer x freemanii 'Marmo' / Marmo Freeman Maple
	BH	Betula nigra 'BNMTF' TM / Dura Heat River Birch (Multi-Stem)
	CO	Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry
	GB	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree
	QB	Quercus bicolor / Swamp White Oak
EVERGREEN TREE	CODE	BOTANICAL / COMMON NAME
	PD	Picea glauca 'Densata' / Black Hills Spruce
	TH	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
	TT	Thuja occidentalis 'Techny' / Techny Arborvitae
ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME
	AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry (MS)
	MR	Malus x 'Royal Raindrops' / Royal Raindrops Crabapple
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME
	AB	Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry
	CR	Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra
	PC	Physocarpus opulifolius 'Center Glow' / Center Glow Ninebark
	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac
	SN	Spiraea japonica 'SMNSJMFR' TM / Double Play Red Spirea
	VJ	Viburnum x juddii / Judd Viburnum
EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME
	JS2	Juniperus x pfitzeriana 'Sea Green' / Sea Green Juniper
	TM	Taxus x media 'Everlow' / Everlow Yew
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME
	CK	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass
	CN	Calamintha nepeta 'Montrose White' / Montrose White Catmint
	EP	Echinacea purpurea / Coneflower
	HA	Hemerocallis x 'Chicago Apache' / Daylily
	PV	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass
	SA	Sesleria autumnalis / Autumn Moor Grass

SCALE IN FEET
10' 0 10'

north

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DETAILED LANDSCAPE PLAN

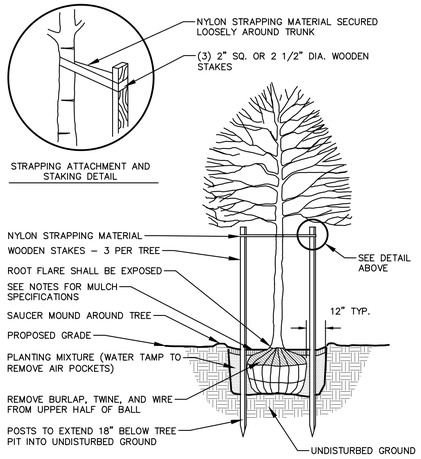
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY	MWS
SCALE	REFER TO PLAN
JSD PROJ. NO.	20-9726
DATE	12/07/2020
SHEET	L1.5

File: I:\2020\209726\DWG\Landscape Sheets\209726 Landscape.dwg Layout: L1.5 DETAILED PLANTING PLAN User: akaniewski Plotted: Dec 04, 2020 – 2:15pm Xref's: 209726 Kwik Trip (Fitchburg)



NOTE:
1. DIG HOLE NO DEEPER THAN BASE OF ROOT BALL TO FLARE. ROOT BALL TO BE SET ON UNDISTURBED SOIL UNLESS COMPACTED AGGREGATE STONE REMAINS FROM SITE EXCAVATOR. REMOVE REMAINING AGGREGATE STONE UNTIL SOIL LAYER IS REACHED
2. REMOVE NYLON STRAPPING WITHIN 9–18 MONTHS FOLLOWING INSTALLATION

DECIDUOUS TREE PLANTING DETAIL

N.T.S.

REV. 01-04-2019

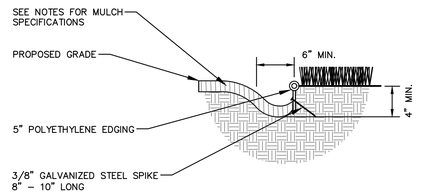


NOTE:
1. ROOT FLARE TO BE EXPOSED.

SHRUB PLANTING DETAIL

N.T.S.

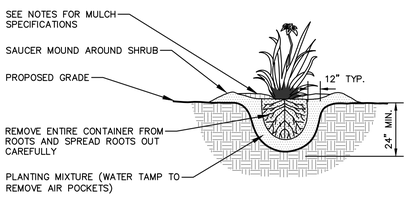
REV. 01-03-2019



POLYETHYLENE LANDSCAPE EDGING DETAIL

N.T.S.

REV. 01-03-2019

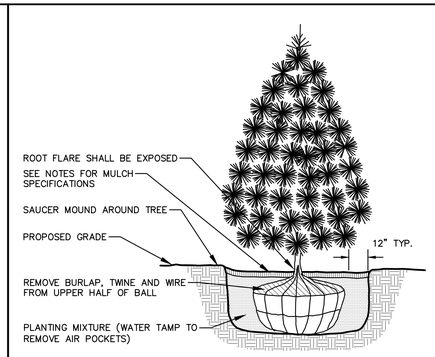


NOTE:
1. ROOT FLARE TO BE EXPOSED

PERENNIAL/ORNAMENTAL GRASS PLANTING DETAIL

N.T.S.

REV. 01-03-2019

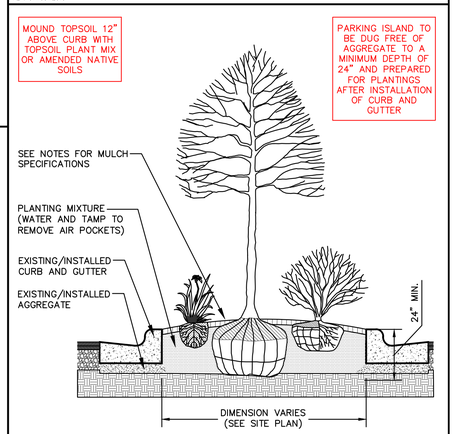


NOTE:
1. DIG HOLE NO DEEPER THAN BASE OF ROOT BALL TO FLARE. ROOT BALL TO BE SET ON UNDISTURBED SOIL UNLESS COMPACTED AGGREGATE STONE REMAINS FROM SITE EXCAVATOR. REMOVE REMAINING AGGREGATE STONE UNTIL SOIL LAYER IS REACHED

EVERGREEN TREE PLANTING DETAIL

N.T.S.

REV. 01-03-2019



PARKING ISLAND LANDSCAPE DETAIL

N.T.S.

REV. 01-03-2019

GENERAL NOTES

1. GENERAL: ALL WORK IN THE R–O–W AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 1–800–242–8511 FOR UTILITY LOCATIONS AT LEAST THREE DAYS PRIOR TO DIGGING. HAND DIG AND INSTALL ALL PLANTS THAT ARE NEAR EXISTING UTILITIES. PROTECT PREVIOUSLY INSTALLED WORK OF OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.
2. DELIVERY AND HANDLING: DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY, UNLESS ADEQUATE, APPROPRIATE AND SECURE STORAGE IS PROVIDED AND APPROVED BY OWNER'S REPRESENTATIVE. AT ALL TIMES, PROTECT ALL PLANT MATERIALS FROM WIND AND DIRECT SUN. DELIVER PLANTS WITH LEGIBLE IDENTIFICATION LABELS. PROTECT PLANTS DURING DELIVERY AND DO NOT PRUNE PRIOR TO DELIVERY. ALL TREES AND SHRUBS SHALL BE PLANTED ON THE DAY OF DELIVERY; IF THIS IS NOT POSSIBLE, PROTECT THE PLANT MATERIALS NOT PLANTED BY STORING THEM IN A SHADED, SECURE AREA, PROTECTING THE ROOT MASS WITH WET SOIL, MULCH, HAY OR OTHER SUITABLE MEDIUM. CONTRACTOR TO KEEP ALL PLANT MATERIALS ADEQUATELY WATERED TO PREVENT ROOT DESICCATION. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE CONTAINER OR BALL. PERFORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED BEST HORTICULTURAL PRACTICES.
3. MATERIALS – PLANTS: ALL PLANTS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTNESS, AND SYMMETRY. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WELL–DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH OR PREMATURE MORTALITY. PLANTS SHALL BE OF THE HIGHEST QUALITY, POSSESS TYPICAL GROWTH HABITS AND FORM FOR THEIR SPECIES AND BE FREE OF INJURY. PARKWAY TREES AND PARKING LOT TREES SHALL HAVE A MINIMUM BRANCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE.
4. PRUNING: THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN DURING THE PLANTING PROCESS, SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUNING ALLOWED AT PLANTING. PRUNING SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI A300. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUNE SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SCARS ON BARK, TRACE THE INJURED CAMBIUM LAYER BACK TO LIVING TISSUE AND REMOVE. SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER. TREAT THE AREA WITH AN APPROVED INCONSPICUOUS LATEX BASED ANTISEPTIC TREE PAINT, IF PRUNING OCCURS "IN SEASON". DO NOT PRUNE ANY OAK TREES DURING THE MONTHS FROM APRIL TO OCTOBER.
5. CLEANUP: THE WORK AREA SHALL BE KEPT SAFE AND NEAT AT ALL TIMES. DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL AND BRANCHES. BIND AND WRAP THESE MATERIALS, ANY REJECTED PLANTS, AND ANY OTHER DEBRIS RESULTING FROM ALL PLANTING TASKS AND PROMPTLY CLEAN UP AND REMOVE FROM THE PROJECT SITE. UNDER NO CIRCUMSTANCES SHALL THE ACCUMULATION OF SOIL, BRANCHES OR OTHER DEBRIS BE ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC SAFETY HAZARD OR DAMAGE. LIKEWISE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY.
6. ANY SUBSTITUTIONS IN PLANT TYPE, LOCATION, OR SIZE SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO VERIFY PLANT MATERIAL QUANTITIES AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE OVER THOSE ON SCHEDULE.

COMPREHENSIVE PLANT SCHEDULE

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	AF	*Acer x freemanii 'Marmo' / Marmo Freeman Maple*	B & B	2.5"Cal	6
	BH	*Betula nigra 'BNMTF' TM / Dura Heat River Birch (Multi–Stem)*	B & B	Min. 6' tall	3
	CO	*Celtis occidentalis 'Prairie Pride' / Prairie Pride Hackberry*	B & B	2.5"Cal	4
	GB	*Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree*	B & B	3"Cal	5
	QB	*Quercus bicolor / Swamp White Oak*	B & B	2"Cal	3
EVERGREEN TREE	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	PD	*Picea glauca 'Densata' / Black Hills Spruce*	B & B	Min. 6' tall	6
	TH	*Thuja occidentalis 'Holmstrup' / Holmstrup Cedar*	B & B	Min. 4' tall	16
	TT	*Thuja occidentalis 'Techny' / Techny Arborvitae*	B & B	Min. 6' tall	3
ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	AG	*Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry (MS)*	B & B	Min. 6' tall	9
	MR	*Malus x 'Royal Raindrops' / Royal Raindrops Crabapple*	B & B	2"Cal	9
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	AB	*Aronia melanocarpa 'Morton' TM / Iroquis Beauty Black Chokeberry*	B & B	Min. 38"	7
	CR	*Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra*	#3	Min. 12"–24"	13
	PC	*Physocarpus opulifolius 'Center Glow' / Center Glow Ninebark*	B & B	Min. 24" Ht.	27
	RG	*Rhus aromatica 'Gro–Low' / Gro–Low Fragrant Sumac*	#85 (gal)	Min. 18" Tall/Wide	28
	SN	*Spiraea japonica 'SMNSJMFR' TM / Double Play Red Spirea*	#85 (gal)	Min. 12"–24"	87
	VJ	*Viburnum x juddii / Judd Viburnum*	B & B	Min. 36" tall	6
EVERGREEN SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	JS2	*Juniperus x pfitzeriana 'Sea Green' / Sea Green Juniper*	5 gal	Min. 12"–24"	31
	TM	*Taxus x media 'Everlow' / Everlow Yew*	B & B	Min. 24" Wide	6
PERENNIALS & GRASSES	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
	CK	*Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass*	#1	Min. 24" Ht.	147
	CN	*Calamintha nepeta 'Montrose White' / Montrose White Catmint*	#1	Min. 8"–18"	183
	EP	*Echinacea purpurea / Coneflower*	#1	Min. 8"–18"	1
	HA	*Hemerocallis x 'Chicago Apache' / Daylily*	#1	Min. 8"–18"	217
	PV	*Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass*	#1	Min. 8"–18"	26
	SA	*Sesleria autumnalis / Autumn Moor Grass*	#1	Min. 8"–18"	227

LANDSCAPE MATERIAL NOTES

1. MATERIALS – PLANTING MIXTURE: ALL HOLES EXCAVATED FOR TREES, SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES SHALL BE BACKFILLED WITH TWO (2) PARTS TOPSOIL, ONE (1) PART SAND AND ONE (1) PART COMPOST. SOIL MIXTURE SHALL BE WELL BLENDED PRIOR TO INSTALLATION.
2. MATERIALS – TOPSOIL: TOPSOIL TO BE CLEAN, FRIABLE LOAM FROM A LOCAL SOURCE, FREE FROM STONES OR DEBRIS OVER 3/4" IN DIAMETER, AND FREE FROM TOXINS OR OTHER DELETERIOUS MATERIALS. TOPSOIL SHALL HAVE A pH VALUE BETWEEN 6 AND 7. TOPSOIL AND PLANTING SOIL SHALL BE TESTED TO ENSURE CONFORMANCE WITH THESE SPECIFICATIONS AND SHALL BE AMENDED TO MEET THESE SPECIFICATIONS. PROVIDE TEST RESULTS TO OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT. DO NOT PLACE FROZEN OR MUDDY TOPSOIL. APPLY SOIL AMENDMENTS TO ALL LANDSCAPE AREAS PER SOIL TEST.
3. MATERIALS – SHREDDED HARDWOOD BARK MULCH: ALL PLANTING AREAS LABELED ON PLAN SHALL RECEIVE CERTIFIED WEED FREE SHREDDED HARDWOOD BARK MULCH INSTALLED TO A MINIMUM AND CONSISTENT DEPTH OF 3–INCHES. SHREDDED HARDWOOD BARK MULCH SIZE & COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS. SHREDDED HARDWOOD BARK MULCH AREAS SHALL NOT RECEIVE WOVEN WEED BARRIER FABRIC.
4. MATERIALS – STONE MULCH: ALL PLANTING AREAS LABELED ON PLAN SHALL RECEIVE DECORATIVE STONE MULCH SPREAD TO A MINIMUM AND CONSISTENT DEPTH OF 3–INCHES. DECORATIVE STONE MULCH TYPE, SIZE & COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE REQUIREMENTS. STONE MULCH AREAS SHALL RECEIVE WOVEN WEED BARRIER FABRIC. NO PLASTIC/IMPERVIOUS BARRIERS WILL BE PERMITTED. EXAMPLE: BLACK VISQUEEN.
5. MATERIALS – TREE & SHRUB RINGS: ALL TREES AND/OR SHRUBS PLANTED IN SEEDED LAWN AREAS TO BE INSTALLED WITH A MINIMUM 4' DIAMETER SHREDDED HARDWOOD BARK MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF 3–INCHES. ALL TREE RINGS SHOULD BE INSTALLED WITH A 5" DEPTH SHOVEL CUT EDGE, ANGLED 45 DEGREES INTO SOIL AT A 5' DIAMETER ABOUT THE CENTER OF THE TREE PLANTING. A PRE–EMERGENT GRANULAR HERBICIDE WEED–PREVENTER SHOULD BE MIXED WITH MULCH USED TO INSTALL TREE RING AS WELL AS TOPICALLY APPLIED TO COMPLETED INSTALLATION OF TREE RING.
6. MATERIALS – POLYETHYLENE EDGING: EDGING SHALL BE 5" DEEP, POLYETHYLENE EDGING. OWNER'S REPRESENTATIVE SHALL APPROVE PRODUCT SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.
7. MATERIALS – TREE PROTECTION: ALL TREES TO BE INSTALLED WITH LDPE TREE GUARDS AS MANUFACTURED BY A.M. LEONARD HORTICULTURAL TOOL & SUPPLY CO., OR APPROVED EQUAL.
8. MATERIALS – (ALTERNATE 1): TREE WATERING BAGS: ALL TREES TO BE INSTALLED WITH ONE (1) WATER BAG. PRODUCT TO BE "TREE GATOR ORIGINAL SLOW RELEASE WATERING BAG," PRODUCT NO. 98183–R OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SEEDING & SODDING NOTES

1. MATERIALS – TURFGRASS SEED MIX: DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL RECEIVE 6" OF TOPSOIL AND EARTH CARPET'S "MADISON PARKS" GRASS SEED, OR EQUIVALENT AS APPROVED BY THE OWNER'S REPRESENTATIVE, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. IN ADDITION TO TURFGRASS SEED, ANNUAL RYE SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 1 1/2 LBS PER 1000 SQUARE FEET. FERTILIZE AND MULCH PER MANUFACTURER'S RECOMMENDATIONS. MULCH SHALL BE CERTIFIED NOXIOUS WEED SEED–FREE
2. MATERIALS – SOD: DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL RECEIVE 6" OF TOPSOIL AND A PREMIUM GRADE TURFGRASS SOD. ONLY IMPROVED TYPES OF SOD (ELITE) ARE ACCEPTABLE. TURFGRASS SHALL BE MACHINE CUT AT A UNIFORM THICKNESS OF .60 INCH, PLUS OR MINUS .25 INCH, AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH. LARGE ROLL TURFGRASS SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH (36–48 INCHES) AND LENGTH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE. STANDARD SIZE SECTIONS OF TURGRASS SOD SHALL BE STRONG ENOUGH SO THAT THEY CAN BE PICKED UP AND HANDLED WITHOUT DAMAGE. TURFGRASS SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT IS EXCESSIVELY DRY OR WET, AS THIS MAY ADVERSELY AFFECT ITS SURVIVAL. POST–PLANT IRRIGATION WILL BE NECESSARY TO ENSURE SOD STAYS ALIVE AND ROOTS INTO SOIL. THE CONTRACTOR IS RESPONSIBLE FOR WATERING SOD UNTIL TIME OF ACCEPTANCE BY THE OWNER. TURFGRASS SOD SHALL BE HARVESTED, DELIVERED, INSTALLED/TRANSPLANTED WITHIN A PERIOD OF 24 HOURS. TURFGRASS SOD SHALL BE RELATIVELY FREE OF THATCH, UP TO 0.5 INCH ALLOWABLE (UNCOMPRESSED). TURFGRASS SOD SHALL BE REASONABLY FREE (10 WEEDS/100 SQ. FT.) OF DISEASES, NEMATODES AND SOIL–BORNE INSECTS. ALL TURFGRASS SOD SHALL BE FREE OF GRASSY AND BROAD LEAF WEEDS AND WEED SEED. THE SOD SUPPLIER SHALL MAKE RECOMMENDATIONS TO THE CONTRACTOR REGARDING WATERING SCHEDULE. THE WATERING SCHEDULE SHOULD BEGIN IMMEDIATELY AFTER SOD IS INSTALLED.
3. MATERIALS – PRAIRIE SEED MIX: DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL BE BROADCAST SEEDED WITH "DIVERSE PRAIRIE FOR MEDIUM SOILS" SEED MIX, AS PROVIDED BY PRAIRIE NURSERY, P.O. BOX 306, WESTFIELD, WISCONSIN, 53964, TEL. 608–296–3679 (OR APPROVED EQUIVALENT). INSTALL SEED WITH SUPPLEMENTAL MATERIALS AND AMENDMENTS AS RECOMMENDED BY SEED SUPPLIER AND AT RATES AND OPTIMUM TIMES OF THE YEAR AS RECOMMENDED BY THE SEED SUPPLIER TO ENSURE SUCCESSFUL GERMINATION AND SEED/ROOT ZONE GROWTH DEVELOPMENT. REFER TO PRODUCT SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION.
4. MATERIALS – DETENTION BASIN SEED MIX: DISTURBED LAWN AREAS LABELED ON PLAN AS SUCH, SHALL BE BROADCAST SEEDED WITH "DETENTION BASIN – BIOSWALE" SEED MIX, AS PROVIDED BY PRAIRIE NURSERY, P.O. BOX 306, WESTFIELD, WISCONSIN, 53964, TEL. 608–296–3679 (OR APPROVED EQUIVALENT). INSTALL SEED WITH SUPPLEMENTAL MATERIALS AND AMENDMENTS AS RECOMMENDED BY SEED SUPPLIER AND AT RATES AND OPTIMUM TIMES OF THE YEAR AS RECOMMENDED BY THE SEED SUPPLIER TO ENSURE SUCCESSFUL GERMINATION AND SEED/ROOT ZONE GROWTH DEVELOPMENT. REFER TO PRODUCT SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION.

CONTRACTOR AND OWNER RESPONSIBILITY NOTES

1. **GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL PLANTS THROUGH ONE (1) YEAR AFTER ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PLANTS SHALL BE ALIVE AND IN HEALTHY AND FLOURISHING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE (AT NO COST TO OWNER) ANY PLANTS THAT ARE DEAD OR NOT IN A VIGOROUS THRIVING CONDITION. REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE. RESTORE BEDS AS NECESSARY FOLLOWING PLANT REPLACEMENT, INCLUDING BUT NOT LIMITED TO BEDDING, EDGING, MULCH, ETC. REPLACE PLANTS DAMAGED AT TIME OF PLANTING. REPAIR AREAS DISTURBED IN ANY WAY DURING PLANT REPLACEMENT AT NO COST TO OWNER. CONTRACTOR SHALL PROVIDE A ONE (1)–YEAR STRAIGHTENING GUARANTEE FOR ALL TREES.**
2. **CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO DIGGING AND PLACEMENT AND SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.**
3. **MAINTENANCE: (CONTRACTOR) FOR ALL PLANTINGS, SEEDED AND/OR SODDED LAWN AREAS: THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS AND LAWN AREAS FOR A MINIMUM TIME PERIOD OF 60 DAYS, UNTIL FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY WATERING PLANTS AND LAWN/TURFGRASS DURING THIS 60 DAY ESTABLISHMENT PERIOD. CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF HEALTHY VIGOROUS PLANT MATERIALS AND LAWN/TURFGRASS GROWTH. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRUNING OF PLANT MATERIALS, AND SHAPING AND/OR REPLACEMENT OR SUPPLEMENT OF DEFICIENT SHREDDED HARDWOOD BARK MULCH DURING THIS PERIOD. LONG TERM PLANT MATERIALS AND LAWN/TURFGRASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFGRASS AREAS SHALL BE MAINTAINED IN A MANICURED CONDITION UNTIL THE TIME WHEN THE OWNER'S ACCEPTANCE IS GIVEN.**
4. **MAINTENANCE: (OWNER) THE OWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE, REPAIR AND REPLACEMENT OF ALL LANDSCAPING MATERIALS AND WEED BARRIER FABRIC AS NECESSARY FOLLOWING THE ONE (1) YEAR CONTRACTOR GUARANTEE PERIOD.**

IRRIGATION (SEE SPECS):

BASE BID – DRIP IRRIGATION PROVIDED IN ALL PLANT BED AREAS SURROUNDING BUILDING

ALTERNATE BID – POP–UP IRRIGATION FOR ALL PERIMETER PLANTING BEDS AND TURFGRASS AREAS

LANDSCAPING:

LANDSCAPING TO BE INSTALLED AFTER COMPLETION OF THE BUILDING

INSTALLATION OF LANDSCAPING NOT TO AFFECT OPERATIONS OF THE BUILDING

TREE WATERING PROGRAM:

BASE BID – WATERING OF ALL TREES ON A REGULAR WEEKLY BASIS. CONTRACTOR TO KEEP A LOG OR JOURNAL OF A RECORD OF DATES AND QUANTITIES OF SUPPLEMENTAL WATERING EFFORTS

ALTERNATE BID 1* – INSTALLATION OF ONE (1) WATERING BAG PER TREE. DOCUMENTATION OF WEEKLY WATERING PROGRAM REQUIRED

*SEE LANDSCAPE MATERIALS NOTES FOR PRODUCTS

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LANDSCAPE DETAILS & NOTES

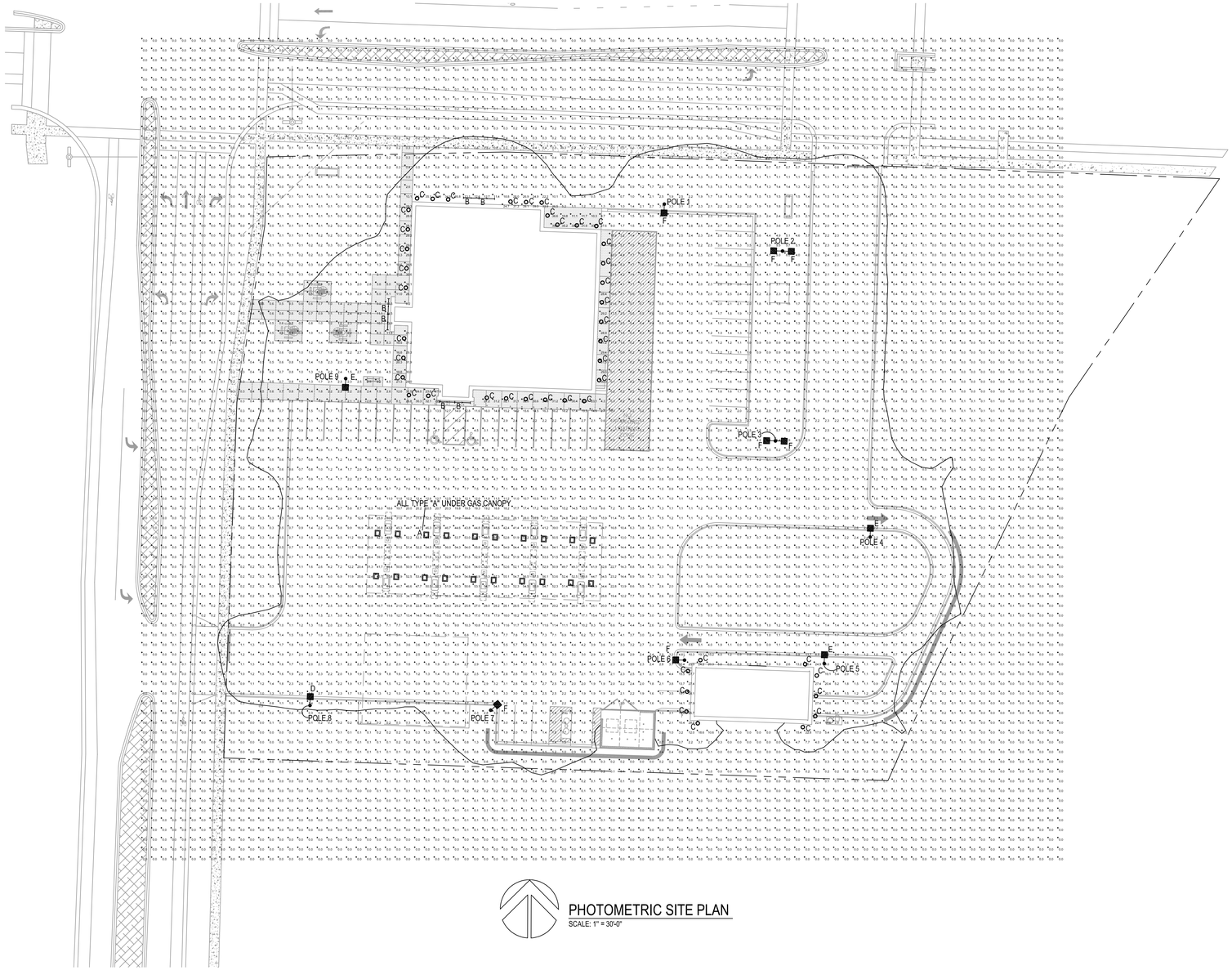
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL
2	12/07/20	MUNICIPAL RE-SUBMITTAL

DRAWN BY MWS
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET L1.6

File: I:\2020\209726\DWG\Landscape Sheets\209726 Landscape.dwg Layout: L1.6 DETAILS & NOTES User: akoniewski Plotted: Dec 04, 2020 – 2:16pm Xref's: 209726 Kwik Trip (Fitchburg)



PHOTOMETRIC SITE PLAN
SCALE: 1" = 30'-0"

NOTE:
FOOTCANDLE LEVELS SHOWN ON THIS PLAN ARE CALCULATED AT GRADE LEVEL.

CALCULATION STATISTICS
AVERAGE: 2.9
MAXIMUM: 58.3
MINIMUM: 0.0

FIXTURE QUANTITIES
A - 20
B - 6
C - 44
D - 1
E - 3
F - 7

PROVIDE (9) 16' POLES.

FIXTURE SYMBOLS:
A — LED LIGHT MOUNTED UNDER FUEL CANOPY

B — LED STRIP LIGHT MOUNTED IN GABLE

C — RECESSED LED DOWNLIGHT

D, E & F — POLE MOUNTED LED FIXTURE

FIXTURE TYPES:
NOTE: ALL FIXTURES ARE 3000K

A - LSI LIGHTING: CRUS-SC-LED-H0-30-UE-WHT
MOUNTED UNDER GAS CANOPY

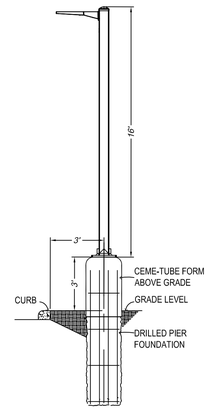
B - LED STRIP LIGHT MOUNTED IN GABLE
LITHONIA -TZL1N-L96-10000LM-FST-MVOLT-30K-80CRI-WH

C - RECESSED LED DOWNLIGHT
GOTHAM EVO-30/30-8AR-WD-120-TRW

D - LSI LIGHTING: SLM-LED-9L-SIL-FT-UNV-30-70CRI-WHT-IL

E - LSI LIGHTING: SLM-LED-9L-SIL-5W-UNV-30-70CRI-WHT

F - LSI LIGHTING: SLM-LED-9L-SIL-FT-UNV-30-70CRI-WHT



LOT LIGHT ELEVATION DETAIL
NOT TO SCALE

2020-0195.61

GRAEF
275 West Wisconsin Avenue, Suite 300
Milwaukee, WI 53203
414 / 259 1500
414 / 259 0037 fax

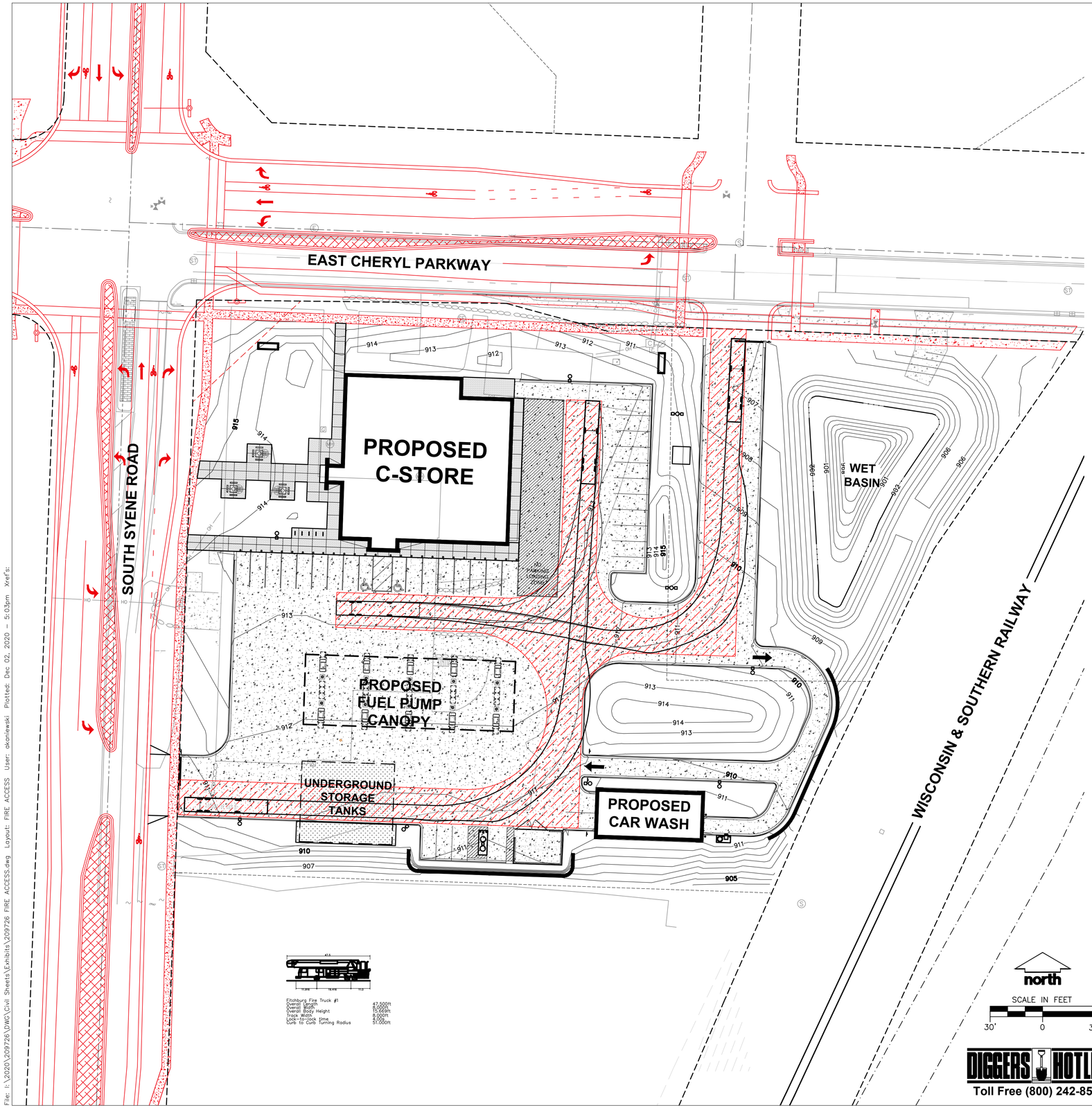
KWIK TRIP™ STORES
KWIK STAR™ STORES

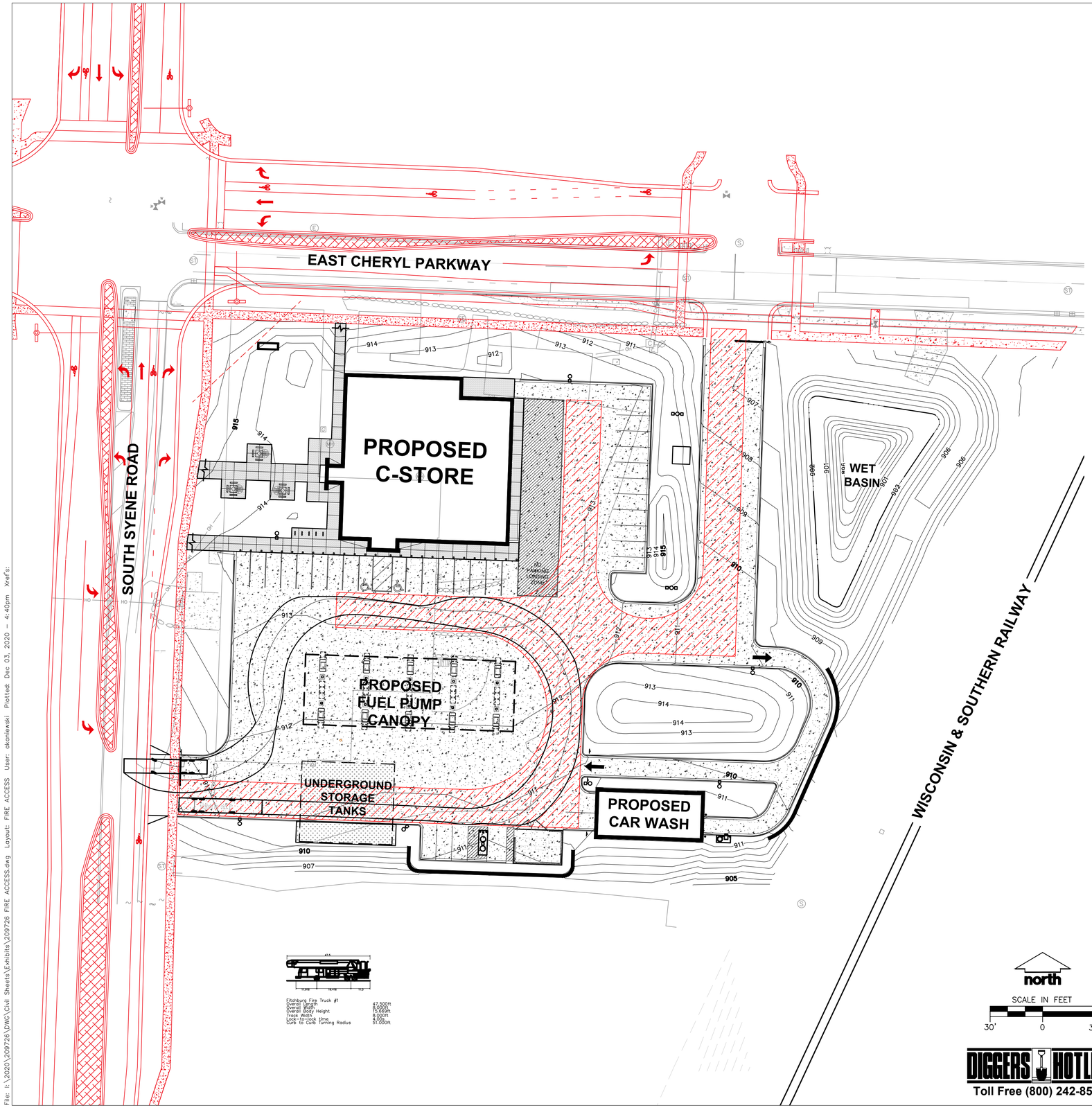
KWIK TRIP, Inc.
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LA CROSSE, WI 54602-2107
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FAX (608) 781-8960

PHOTOMETRIC SITE PLAN
CONVENIENCE STORE 1166
SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION

DRAWN BY	AMM
SCALE	GRAPHIC
PROJ. NO.	20-9726
DATE	11/13/20
SHEET	E1


EAST CHERYL PARKWAY
SOUTH SYENE ROAD
PROPOSED C-STORE
PROPOSED FUEL PUMP CANOPY
UNDERGROUND STORAGE TANKS
PROPOSED CAR WASH
WET BASIN
WISCONSIN & SOUTHERN RAILWAY
914
913
912
911
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LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- RETAINING WALL
- LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- SIGN (REFER TO SIGNAGE PLAN)
- BOLLARD
- BOLLARD WITH ADA PARKING SIGN
- CONCEPT PUBLIC ROADWAY IMPROVEMENTS (BY OTHERS)
- 20' WIDE FIRE LANE

ACCESSIBLE NOTES

1. REFER TO THE DOCUMENT FROM THE DEPARTMENT OF JUSTICE ON 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN". CONTRACTOR SHALL REFERENCE CURRENT A.D.A GUIDELINES AND LOCAL REGULATIONS FOR SITE ACCESSIBILITY. IN ALL CASES THE MINIMUM REQUIREMENTS SHALL BE PROVIDED ON SITE TO ENSURE COMPLIANCE TO ALL REGULATIONS.
2. KWIK TRIP STANDARD ENTRANCE DOOR IS AUTOMATIC SLIDER DOOR SYSTEM DESIGNED TO COMPLY WITH ALL ACCESS CODES AND LAWS. ENTRANCE DOORS FOR ACCESSIBLE ROUTES WILL HAVE A MINIMUM CLEAR OPENING OF 32".
3. STORE FRONTS WILL PROVIDE FLUSH PAVEMENTS ALONG ACCESSIBLE ROUTES WITH PROTECTIVE SECURITY BOLLARDS INDICATED AND SPACED BETWEEN PARKING SURFACES AND BUILDING WALK PER PLAN.
4. NO OBJECTS OR DISPLAYS SHOULD PROTRUDE INTO THE MINIMUM CLEAR SPACE OF THE ACCESSIBLE ROUTES TO THE STORE ENTRANCE. THIS WILL INCLUDE SEASONAL DISPLAY VENDING AREAS AS WELL AS OTHER OUTDOOR STORAGE UNITS FOR PROPANE AND ICE, ETC.
5. PER A.D.A GUIDELINES--CLEAR WIDTH OF ACCESSIBLE ROUTES SHALL BE 36" AND PERMITTED TO BE REDUCED TO 32" FOR A LENGTH OF 24".
6. ACCESS ISLES SERVING WHEEL CHAIR LEFTS OR CHAIR ACCESS FROM VEHICLES ARE REQUIRED TO BE NEARLY LEVEL IN ALL DIRECTIONS TO PROVIDE SAFE TRANSFER OF WHEELCHAIRS TO AND FROM VEHICLES. THE EXCEPTION WOULD BE FOR DRAINAGE. MAXIMUM SLOPE FOR THE ACCESS ISLE IS 1:48. NO CURB RAMPS SHALL BE A PART OF THE ACCESS ISLE.
7. IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY WITH THE DESIGNATIONS OF I "VAN ACCESSIBLE" IN EVERY 8 ACCESSIBLE SPACES ON SITE.

NOTES FOR CONVENIENCE STORE ACCESSIBILITY

1. AT LEAST 1 MPD (MULTI-PRODUCT DISPENSER) COVERING ALL GRADES OF FUEL MUST BE ACCESSIBLE IN A 30"x48" CLEAR LEVEL FLOOR AREA (CLF).
2. ALL PUMP CONTROLS SHALL BE <48" (2010 STANDARD). WINDOW WASHER, PAPER TOWEL DISPENSER, LITERATURE, FIRE EXTINGUISHER, EMERGENCY FUELS STOPS, ETC. BE ACCESSIBLE 30"x48" SHELF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.
3. PROVIDE ISA (INDUSTRY STANDARD ARCHITECTURE) AT EACH ACCESSIBLE FUEL POSITION ON FACE OF PUMP.
4. PROVIDE ISA AT EACH ACCESSIBLE FUELING POSITION VISIBLE TO APPROACHING VEHICLES.
5. PROVIDE A SIGN AT EACH ACCESSIBLE FUELING POSITION WITH STORE TELEPHONE NUMBER, ADVISING AVAILABLE FUELING ASSISTANCE.
6. ANY PAY FUNCTION--I.E. AIR/VACUUM ET. ARE REQUIRED TO HAVE AN ACCESSIBLE ROUTE TO STORE ENTRANCE. CONTROLS SHALL BE ACCESSIBLE 30"x48" CLF SPACE AND WITHIN A FORWARD OR SIDE APPROACH REACH RANGE.

PLAN KEYNOTES

1. ACCESSIBLE STALLS
   - A. STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY BLUE PAINT.
     SPACES PROVIDED
     (2) 8'-0" x 20'-0" ACCESSIBLE PARKING WITH
     (1) 9'-0" x 20'-0" LOADING ZONE.
   - B. ACCESSIBLE FUELING POINT AND DISPENSER AND VALET. VALET AND KEY PAD ON PUMP SHALL CONFORM TO ADA REACH DIMENSIONS AS SHOWS IN DETAIL. SEE NOTES FOR CONVENIENCE STORE ACCESSIBILITY.
2. PAVEMENTS FLUSH FOR ACCESSIBILITY
3. ACCESSIBLE ROUTE TO STORE.

north

SCALE IN FEET

30' 0 30'

DIGGERS HOTLINE
Toll Free (800) 242-8511

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DRAFT

FIRE ACCESS EXHIBIT

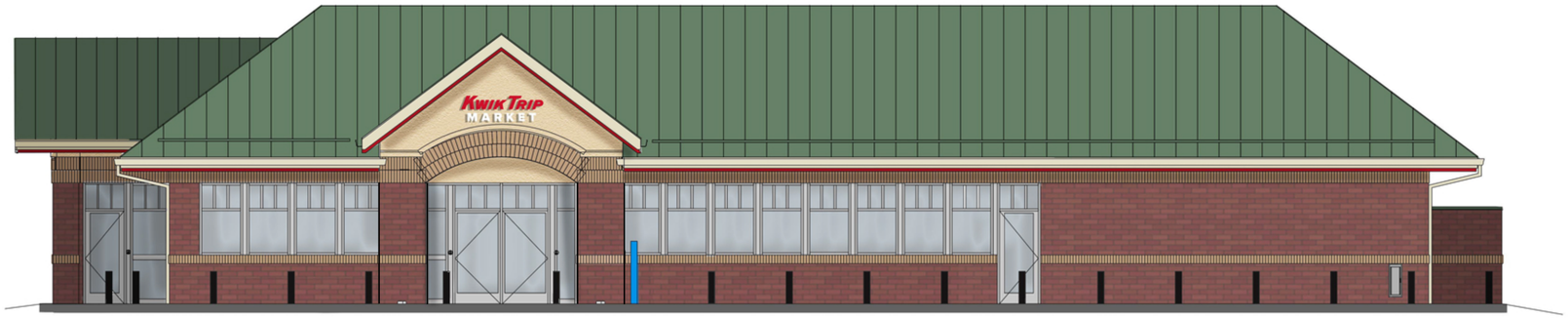
CONVENIENCE STORE #1166

SOUTH SYENE ROAD
FITCHBURG, WI

#	DATE	DESCRIPTION
1	11/17/20	MUNICIPAL SUBMITTAL

DRAWN BY
SCALE
JSD PROJ. NO. 20-9726
DATE 12/07/2020
SHEET EX B

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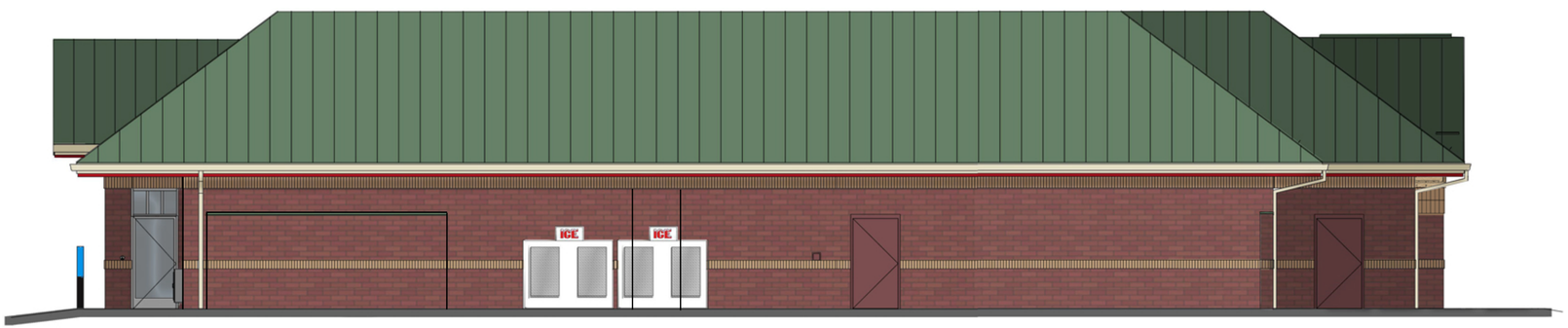
1 VIEW LOOKING TO THE NORTH
(SOUTH ELEVATION)



2 VIEW LOOKING TO THE EAST
(WEST ELEVATION)



3 VIEW LOOKING TO THE SOUTH
(NORTH ELEVATION)



4 VIEW LOOKING TO THE WEST
(EAST ELEVATION)

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KWIK TRIP INC.

FITCHBURG, WI



KWIK TRIP INC.

FITCHBURG, WI

EAST CHERYL PARKWAY

SOUTH SYENE ROAD

6'-6"

26'-11 1/4"

14
DS2

CS1
03

CS2
04

01
CS1

02
CS1

NO PARKING LOADING ZONE

CA2
11

10
CA1

09
CA1

DS2
13

CW1
05

CW1
07

DS1
12

06
CW1

08
CW1

PROPOSED SIGNS:
#01 13" LED KWIK TRIP BUILDING LETTERS
#02 CARWASH BUILDING DIRECTIONAL SIGN
#03 13" LED KWIK TRIP BUILDING LETTERS
#04 13" LED KWIK TRIP BUILDING LETTERS
#05 18" LED CARWASH BUILDING LETTERS
#06 CARWASH ENTER
#07 CARWASH EXIT
#08 CARWASH INFORMATIONAL SIGN
#09 18" LED KWIK TRIP CANOPY LETTERS
#10 18" LED KWIK TRIP CANOPY LETTERS
#11 18" LED KWIK TRIP CANOPY LETTERS
#12 DRIVEWAY DIRECTIONAL
#13 DRIVEWAY DIRECTIONAL
#14 FREESTANDING MONUMENT SIGN

SITE PLAN
1" = 40'-0"

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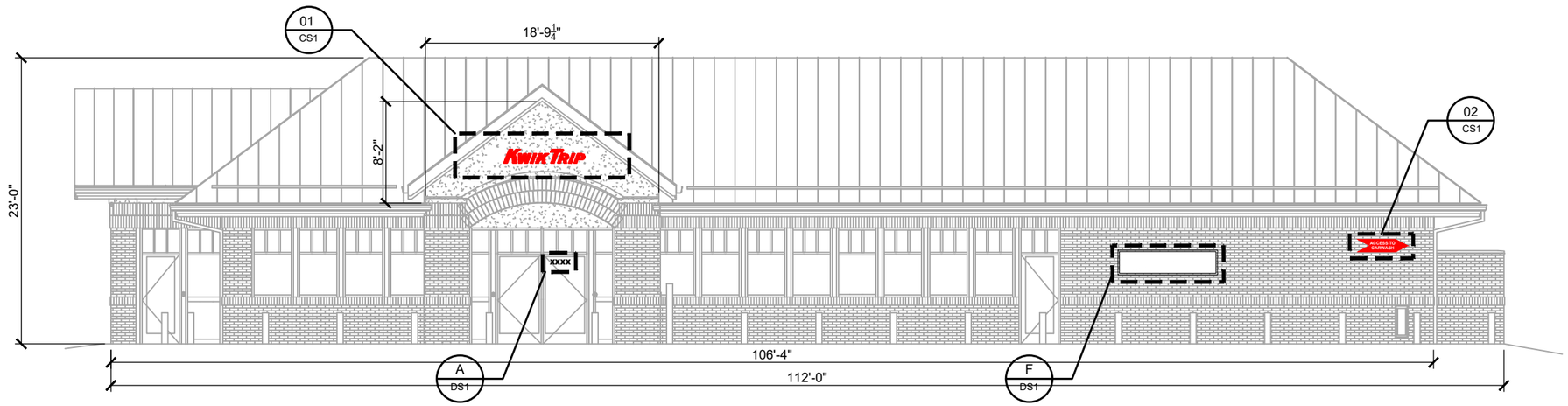
SITE PLAN

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

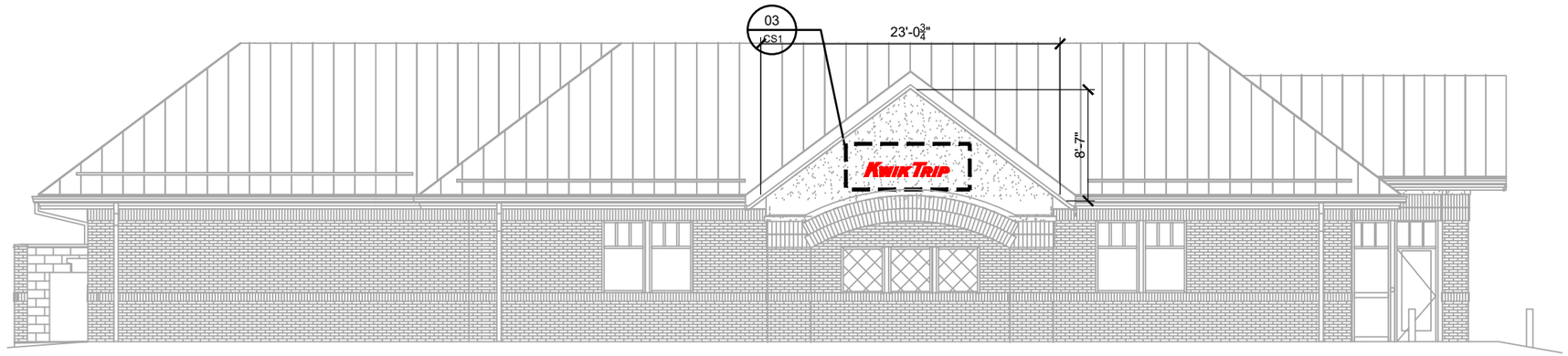
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1	2020/12/03	SIGN SIZE UPDATE

DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	SP1



VIEW LOOKING TO THE NORTH

SCALE: 3/32" = 1'-0"



VIEW LOOKING TO THE SOUTH

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGNS #01 & #03

SCALE: 1/2" = 1'-0"



NON-LIT DIRECTIONAL SIGN
WHITE VINYL ON RED ALUMINUM
1'-0"H X 4'-0"W = 4.0 SQ FT

INFORMATIONAL SIGN #02

SCALE: 3/4" = 1'-0"

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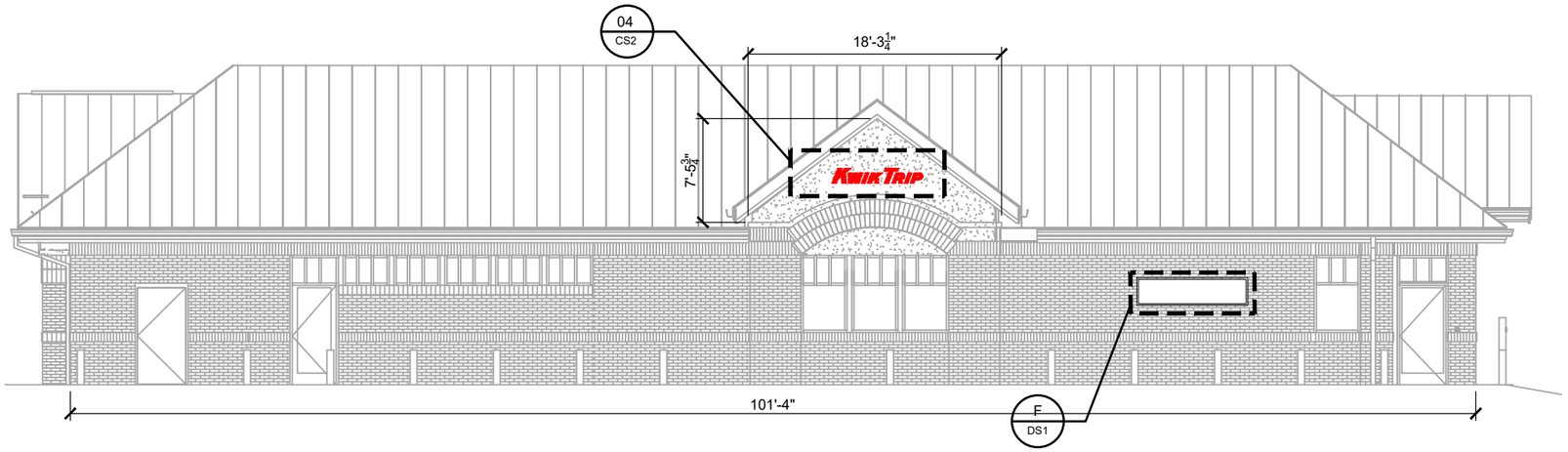
CONVENIENCE STORE SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

#	DATE	DESCRIPTION
1	2020/12/03	SIGN SIZE UPDATE

DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	CS1



VIEW LOOKING TO THE EAST

SCALE: 3/32" = 1'-0"

VIEW LOOKING TO THE WEST

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGN #04

SCALE: 1/2" = 1'-0"

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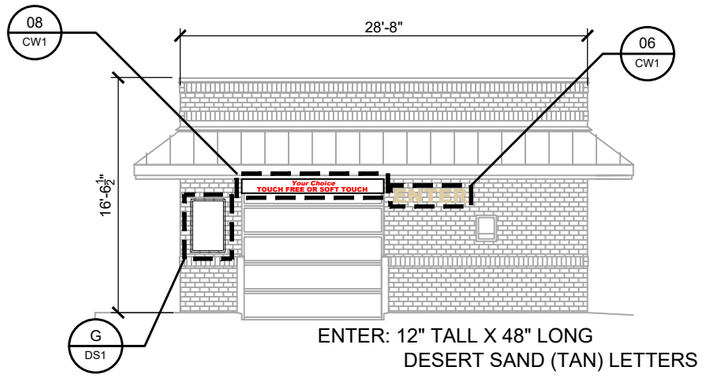
CONVENIENCE STORE SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

#	DATE	DESCRIPTION
1	2020/12/03	SIGN SIZE UPDATE

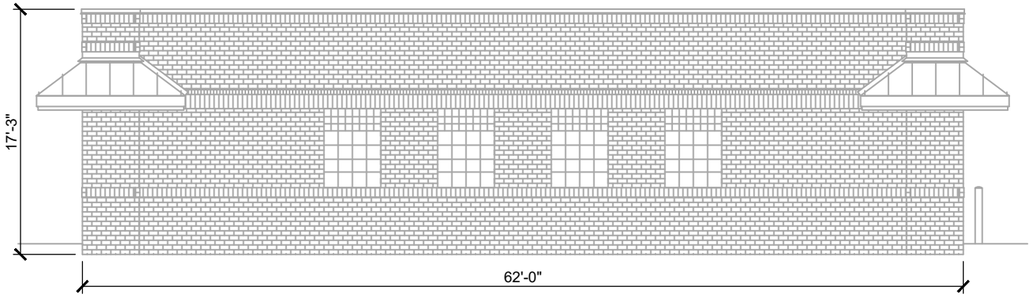
DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	CS2



ENTER: 12" TALL X 48" LONG
DESERT SAND (TAN) LETTERS

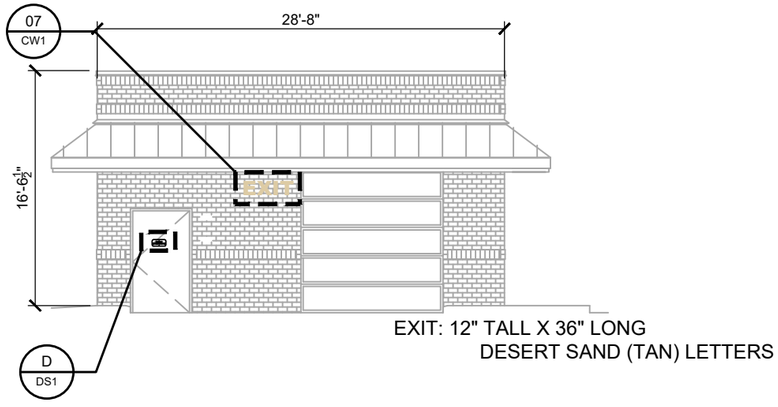
ENTER ELEVATION

SCALE: 3/32" = 1'-0"



SOUTH ELEVATION

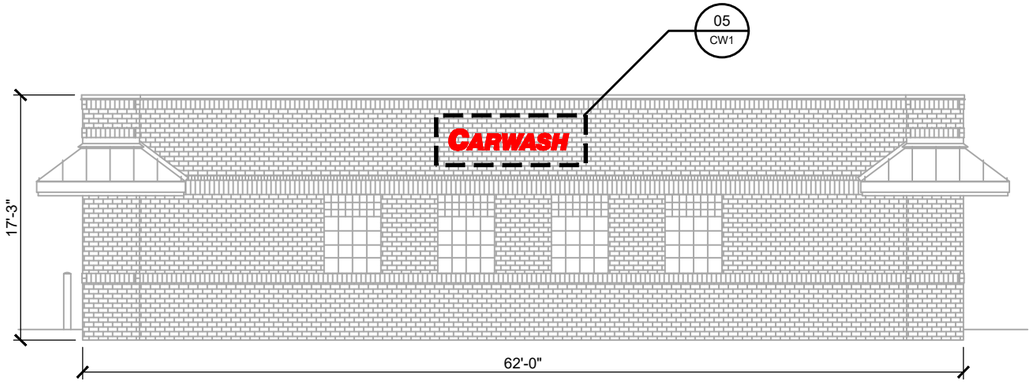
SCALE: 3/32" = 1'-0"



EXIT: 12" TALL X 36" LONG
DESERT SAND (TAN) LETTERS

EXIT ELEVATION

SCALE: 3/32" = 1'-0"



NORTH ELEVATION

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGN #05

SCALE: 1/2" = 1'-0"

Your Choice
TOUCH FREE OR SOFT TOUCH

NON-LIT INFORMATIONAL SIGN
RED VINYL ON WHITE ALUMINUM
1'-0"H X 10'-0"W = 10.0 SQ FT

INFORMATIONAL SIGN #08

SCALE: 1/2" = 1'-0"

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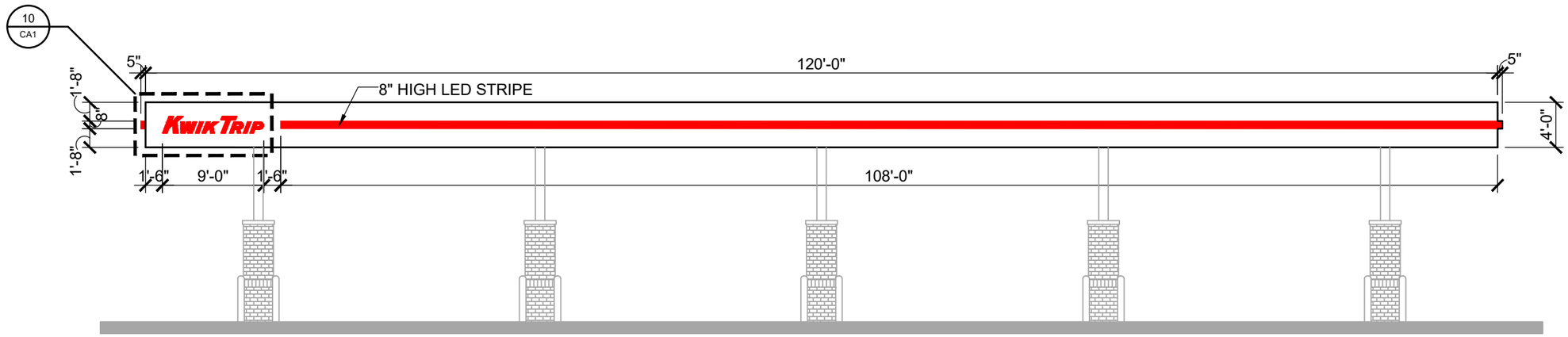
CARWASH SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

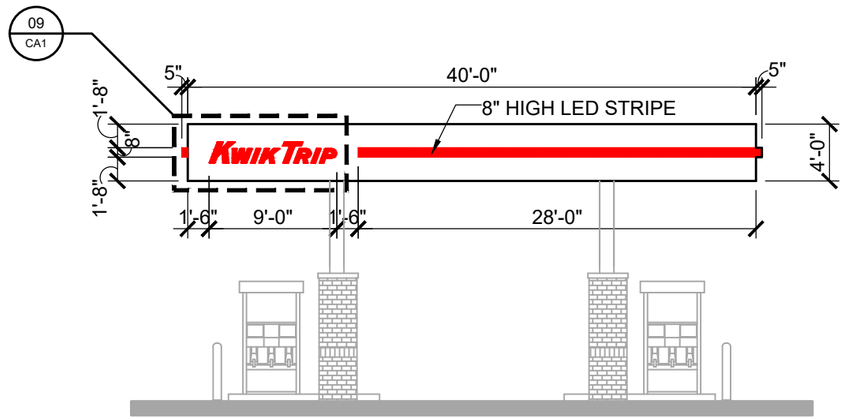
#	DATE	DESCRIPTION
1	2020/12/03	SIGN SIZE UPDATE

DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	CW1



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGNS #09 & #10

SCALE: 1/2" = 1'-0"

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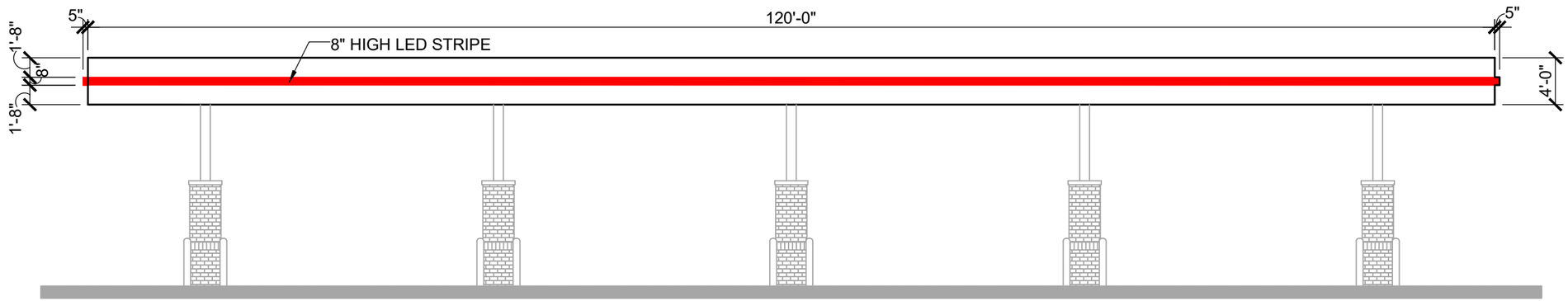
CANOPY SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

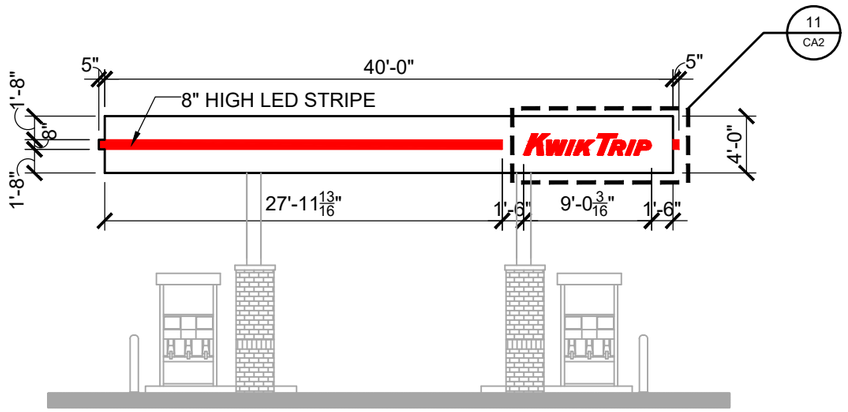
#	DATE	DESCRIPTION
1	2020/12/03	SIGN SIZE UPDATE

DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	CA1



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



CANOPY ELEVATION

SCALE: 3/32" = 1'-0"



LOGO DETAIL - SIGN #11

SCALE: 1/2" = 1'-0"

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

CANOPY SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

#	DATE	DESCRIPTION
1	2020/12/03	SIGN SIZE UPDATE

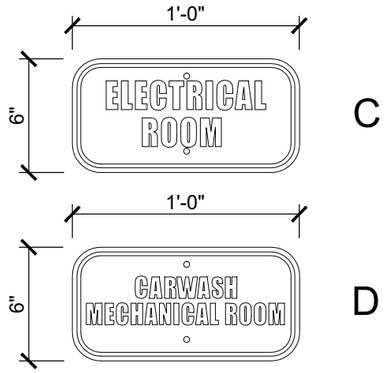
DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	CA2



5" WHITE VINYL ADDRESS LETTERS
ON GLASS DOOR AS SHOWN ABOVE
(VERIFY ACTUAL NUMBERS WITH PROJECT MANAGER)

ADDRESS SIGN A

SCALE: 3/4" = 1'-0"



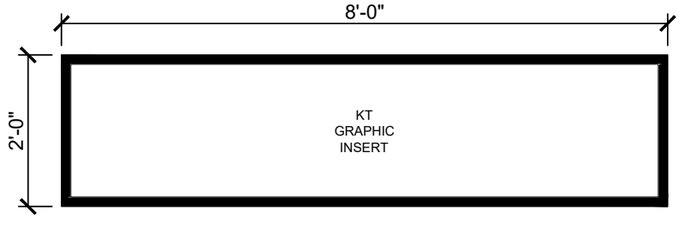
INFORMATIONAL SIGNS C & D

SCALE: 1 1/2" = 1'-0"

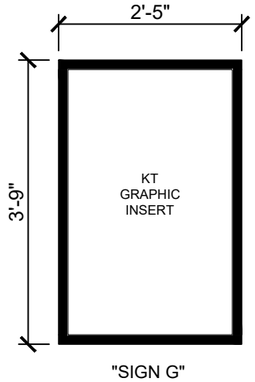
GENERAL SPECIFICATIONS

ROOM SIGNS
Qty: 3 total (different copy on each)
Size: per art
Material: white sign blank
Finish: cut vinyl

Install along with various signs for same site, crew to give to KT trim guys to install.



"SIGN F"
BLACK ALUMINUM FRAME

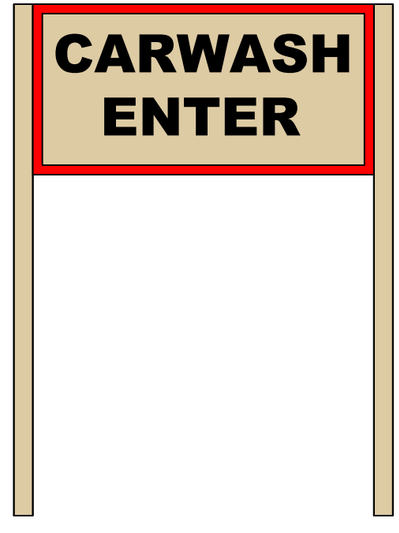


"SIGN G"
BLACK ALUMINUM
FRAME

INFORMATIONAL SIGNS F & G

SCALE: 1/2" = 1'-0"

SINGLE SIDED DIRECTIONAL SIGN
WEST SIDE



NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #12

SCALE: 3/4" = 1'-0"

KWIK TRIP
KWIK STAR

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

DIRECTIONAL SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

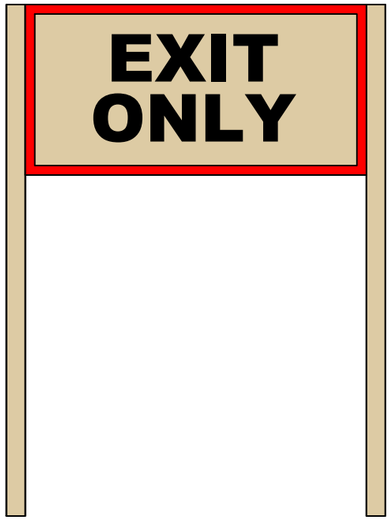
SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

#	DATE	DESCRIPTION

DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	DS1

SINGLE SIDED DIRECTIONAL SIGN

WEST SIDE



NON-LIT DIRECTIONAL SIGN
RED & BLACK VINYL ON LIGHT BEIGE ALUMINUM
1'-6"H X 3'-0"W X 4'-6"T= 4.50 SQ FT

DIRECTIONAL SIGN #13

SCALE: 3/4" = 1'-0"

#14 KWIK TRIP FREESTANDING MONUMENT SIGNS

SEE ATTACHMENT FROM LA CROSSE SIGN CO

KWIK TRIP

KWIK STAR

KWIK TRIP, Inc.
P.O. BOX 2107
1626 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

DIRECTIONAL SIGNAGE

CONVENIENCE STORE #1166
WITH DETACHED CARWASH

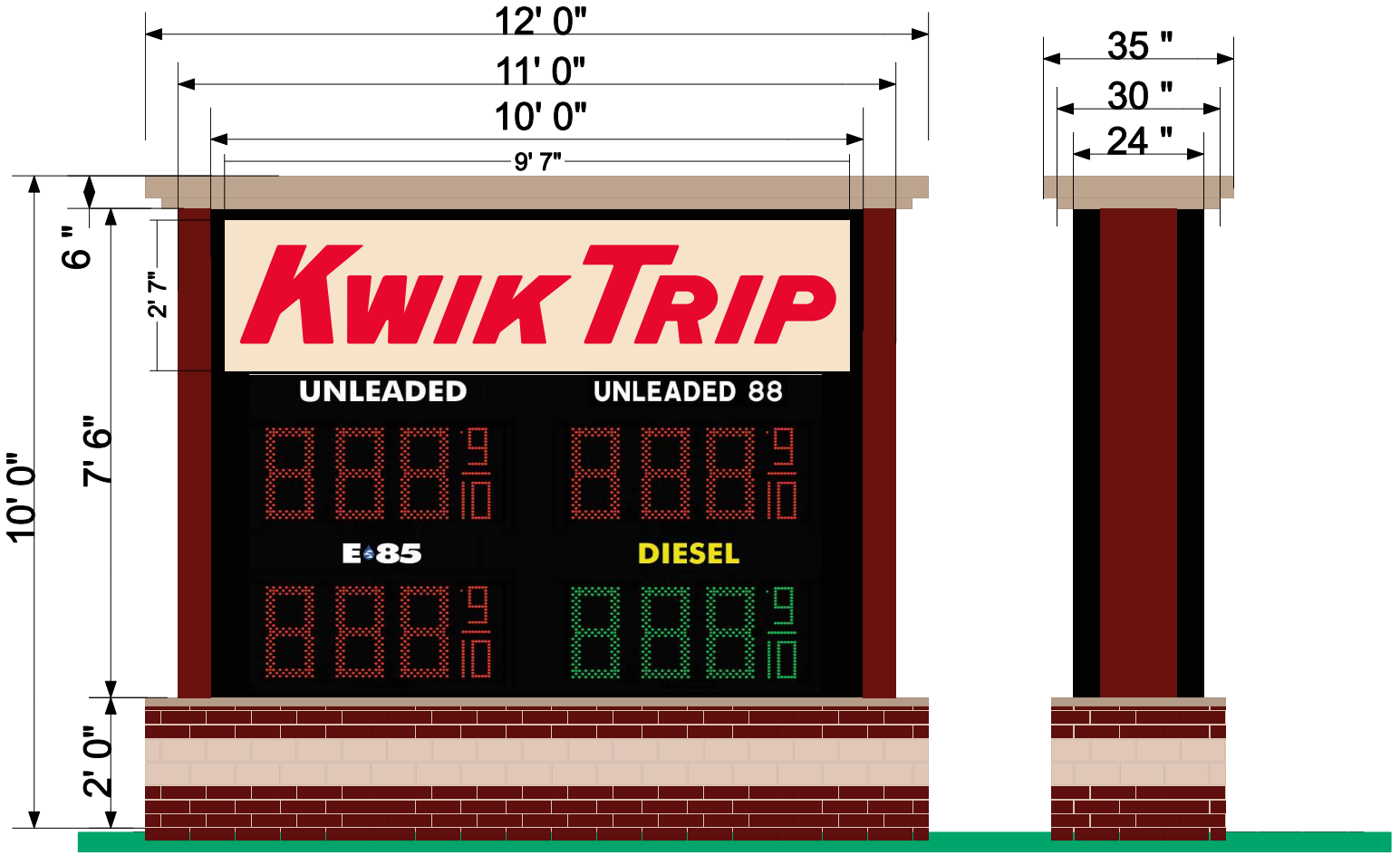
SWC SYENE RD & CHERYL PKWY
FITCHBURG, WI

#	DATE	DESCRIPTION
1	2020/12/03	SIGN SIZE UPDATE

DRAWN BY	KMK
SCALE	MULTIPLE
PROJ. NO.	0001
DATE	2020-11-09
SHEET	DS2

NEW DOUBLE FACED MONUMENT

1166 Fitchburg, WI



PRICE SIGN CABINET 0.080" ALUMINUM FACE
W/ CUT OUTS FOR ILLUMINATED PRODUCT PANELS & 18" DAK PRICE DIGITS
PRODUCT ID'S ARE HELD IN BY FRAME/RETAINER SYSTEM TO MAKE
SLIDE OUT FACES BE EASILY REMOVED IF A FUEL GRADE CHANGES
White PRINCIPAL LED

Approved by:_____ Date:_____ Landlord:_____ Date:_____

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lacrossesign.com

La Crosse Sign Group
1450 Oak Forest Drive • Onalaska, WI 54650 • 608-781-1450
2242 Mustang Way • Madison, WI 53718 • 608-222-5353
2502 Melby Street • Eau Claire, WI 54703 • 715-835-6189

DESIGN	SALES	FILE
Drawing by: Danielle Hadley	Job Name: Kwik Trip	Revision Number:
Sign Type: Monument	Job Address:	Job File Location:
Date Created: 10/7/2018		
Last Modified: 3/28/2019	Salesperson: Cindy Bluske	
Scale: 3/8" = 1' 0"	Job Number: 102023	

COLOR KEY

*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER.

1	PPG NA 208400	7	
2	Black S/G paint	8	
3	NA 208080 Beige	9	
4	#2283 Red Acrylic	10	
5	White of Acrylic	11	
6	Black (230-22)	12	

Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: _____

Scottsdale® Legacy (CRUS)

LED Canopy Luminaire



IP66

OVERVIEW	
Lumen Package	5,000 - 22,000
Wattage Range	38 - 152
Efficacy Range (LPW)	114 -156
Weight lbs(kg)	23 (10.4)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- Features a ultra-slim 11/16" profile die-cast housing, with flat clear tempered glass lens. Unit is water-resistant, sealed and IP66 rated. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
- Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
- Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

Optical System

- Features an array of select, mid-power, high brightness, high efficiency LED; 3000K, 4000K, 5000K color temperature, 80 CRI (nominal).
- Choice of Symmetric or Asymmetric distribution. Asymmetric provides a wider distribution pattern.
- Six Lumen Packages: 5,000, 9,000, 10,000, 13,000, 18,000 and 22,000 Lumens.

Electrical

- High performance factory programmable driver features over-voltage, under voltage, short-circuit and over temperature protection with integral 6kV surge protection that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards. Custom lumen and wattage packages available.
- Additional field replaceable 10kV surge protection device that meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2) is standard.
- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.
- Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and acts as the primary heatsink ensuring cool operation of internal components for longer life. Seals to optical housing via one-piece molded silicone gasket.
- Universal voltage power supply, 120-277 VAC, 50/60 HZ and 347-480 VAC, 50/60 HZ input.
- -40°C to 55°C (-40°F to 131°F) ambient operating temperature. (Varies based on lumen package and mounting style see performance data for specifics.)
- Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location (see performance data for specifics.)

Hazardous Location

- Designed for lighter than air fuel applications. Product is suitable for Class 1 Divisions 2 only when properly installed per LSI installation instructions. See lsicorp.com for specific guidance. Not available on SLW.

Installation

- One-person installation.
- Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit.
- Retro panels are available for existing Encores as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

Warranty

- LSI LED fixtures carry a 5-year warranty (contact your LSI representative for extended warranty options.)

Listings

- UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Meets Buy American Act requirements.
- IDA compliant with 3000K or lower color temperature.

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Type: _____

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS 50 UE WHT**

Prefix	Distribution	Light Source	Drive Current	Color Temp	Input Voltage	Finish	Options
CRUS - LED Canopy Luminaire	**SC** - Symmetric **AC**[1] - Asymmetric	**LED**	**SLW** - Super Low Watt **VLW** - Very Low Watt **LW** - Low Watt **SS** - Super Saver **HO** - High Output **VHO** - Very High Output **Custom Lumen Packages**[3]	**50** - 5,000K **40** - 4,000K **30** - 3,000K	**UE** - Universal Voltage (120 - 277V) **HV** - High Voltage 347 - 480V	**WHT** - White **BRZ** - Bronze **BLK** - Black	**HL**[2] - Hazardous Location

FOOTNOTES:
1. AC distribution utilizes a reflector which alters the look from a standard SC distribution.
2. Not available on SLW.
3. Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.

Accessory Ordering Information (Accessories are field installed)

Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRUS, for 16" Deck Panel	525946
Retrofit Panels - ECTA / SCF to CRUS, for 12" Deck Panel	530281
Retrofit 2x2 Cover Panel Blank (no holes)	357282

Description	Order Number
Retrofit RIC Cover Panel Blank (no holes)	354702
Kit - Hole Plugs and Silicone (enough for 25 retrofits)[1]	1320540

1 - Consists of (25) 7/8" hole plugs, (100) 5/16" hole plugs and (1) tube of RTV

PERFORMANCE

Back to Quick Links

DELIVERED LUMENS

Lumen Package	Distribution	3000K CCT			4000K CCT			5000K CCT			Wattage
		Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
VHO	SC	21301	140	B4-U0-G2	21835	144	B4-U0-G2	22697	150	B4-U0-G2	152
	AC	17355	114	B3-U0-G3	17799	117	B3-U0-G3	18502	122	B3-U0-G3	
HO	SC	17889	143	B3-U0-G1	18346	146	B3-U0-G2	19071	152	B4-U0-G2	125
	AC	14582	116	B3-U0-G2	14955	119	B3-U0-G2	15546	124	B3-U0-G2	
SS	SC	13113	141	B3-U0-G1	13449	144	B3-U0-G1	13980	150	B3-U0-G1	93
	AC	11468	123	B3-U0-G2	11761	126	B3-U0-G2	12226	131	B3-U0-G2	
LW	SC	10457	144	B3-U0-G1	10724	148	B3-U0-G1	11148	154	B3-U0-G1	73
	AC	9145	126	B2-U0-G2	9379	129	B2-U0-G2	9749	134	B2-U0-G2	
VLW	SC	8783	146	B3-U0-G1	9008	149	B3-U0-G1	9364	155	B3-U0-G1	60
	AC	7681	127	B2-U0-G1	7878	131	B2-U0-G1	8189	136	B2-U0-G1	
SLW	SC	5585	146	B2-U0-G1	5728	150	B2-U0-G1	5954	156	B2-U0-G1	38
	AC	4884	128	B1-U0-G1	5009	131	B1-U0-G1	5207	136	B1-U0-G1	

*LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA (AMPS)

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
VHO	152	1.27	0.73	0.64	0.55	0.44	0.32
HO	124	1.03	0.6	0.52	0.45	0.36	0.26
SS	92	0.77	0.44	0.38	0.33	0.27	0.19
LW	72	0.6	0.35	0.3	0.26	0.21	0.15
VLW	60	0.5	0.29	0.25	0.22	0.17	0.13
SLW	38	0.32	0.18	0.16	0.14	0.11	0.08

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

OPERATING TEMPERATURE

LUMEN PACKAGE	MOUNTING	Max
VHO	Metal/Wood Canopy	45 C
HO	Metal/Wood Canopy	45 C
SS	Metal/Wood Canopy	55 C

Recommended Lumen Maintenance[1] CRUS VHO

Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	102%	97%	92%	88%	84%
10 C	102%	97%	92%	88%	84%
20 C	102%	97%	92%	88%	84%
25 C	102%	97%	92%	88%	84%
30 C	102%	97%	92%	88%	84%
40 C	101%	95%	90%	85%	80%
50 C	101%	94%	89%	83%	78%

Recommended Lumen Maintenance[1] CRUS SS

Ambient Temp C	Initial [2]	25k hr [2]	50k hr [2]	75k hr [3]	100k hr [3]
0 C	102%	97%	92%	88%	84%
10 C	102%	97%	92%	88%	84%
20 C	102%	97%	92%	88%	84%
25 C	102%	97%	92%	88%	84%
30 C	102%	97%	92%	88%	84%
40 C	102%	97%	92%	88%	84%
50 C	101%	95%	91%	86%	82%

FOOTNOTES:
1 - Lumen maintenance values at 25˚C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED).
3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED).

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

PHOTOMETRICS

Back to Quick Links

Luminaire photometry has been conducted by an accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See http://www.lsi-industries.com/products/led-lighting-solutions.aspx for detailed photometric data.

CRUS-SC-SS-50

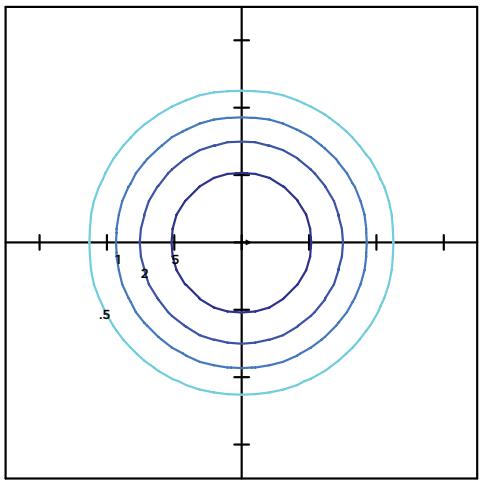
LUMINAIRE DATA

Type 5 Distribution	
Description	5000 Kelvin, 80 CRI
Delivered Lumens	13,980
Watts	93
Efficacy	150
IES Type	Type VS - Very Short
BUG Rating	B3-U0-G1

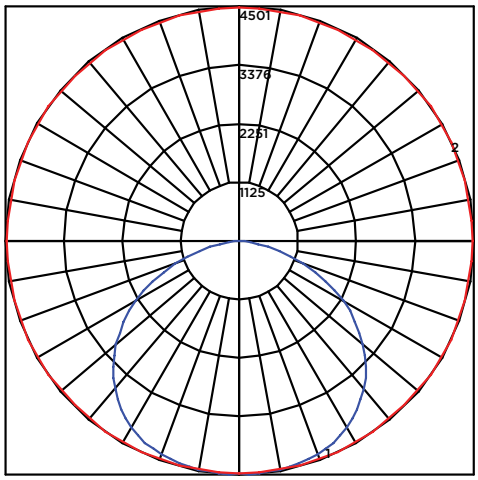
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30°)	3654.2	26%
Medium (30-60°)	7541.2	54%
High (60-80°)	2641.4	19%
Very High (80-90°)	143.2	1%
Uplight (90-180°)	0	0%
Total Flux	13980	100%

ISO FOOTCANDLE



POLAR CURVE



15' Mounting Height/15' Grid Spacing

5 FC **2 FC** **1 FC** **.5 FC**

CRUS-SC-SS-50

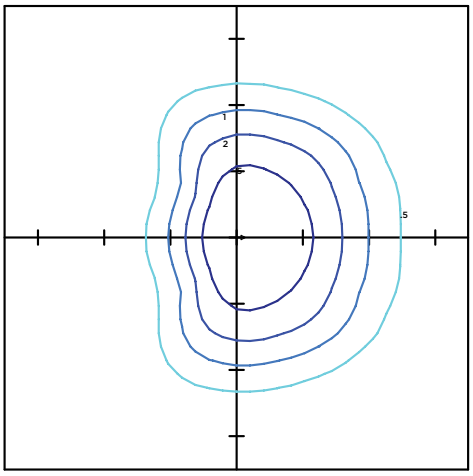
LUMINAIRE DATA

Type 3 Distribution	
Description	5000 Kelvin, 80 CRI
Delivered Lumens	12,226
Watts	93
Efficacy	131
IES Type	Type III, Very Short
BUG Rating	B3-U0-G2

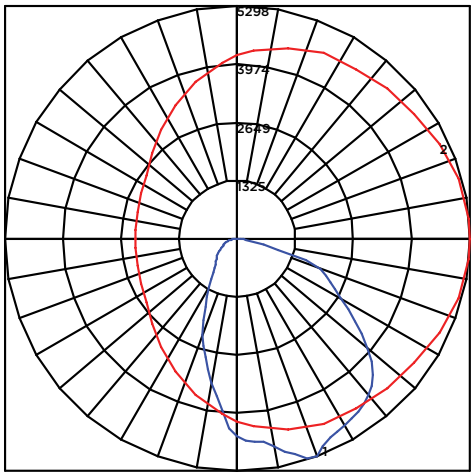
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30°)	3240.3	27%
Medium (30-60°)	6245.5	51%
High (60-80°)	2594.6	21%
Very High (80-90°)	146.1	1%
Uplight (90-180°)	0	0%
Total Flux	12227	100%

ISO FOOTCANDLE



POLAR CURVE



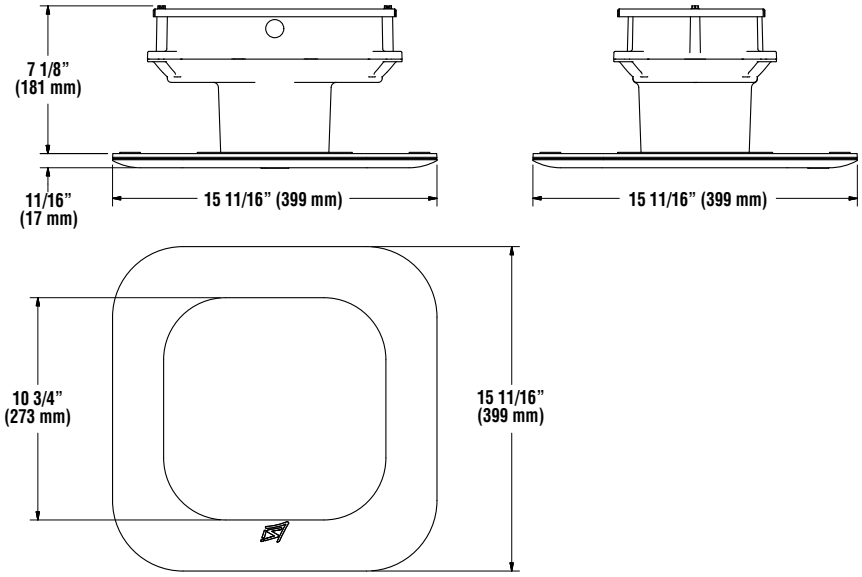
15' Mounting Height/15' Grid Spacing

5 FC **2 FC** **1 FC** **.5 FC**

Scottsdale® Legacy LED Canopy Luminaire (CRUS)

PRODUCT DIMENSIONS

Back to Quick Links



LITHONIA LIGHTING®

Catalog Number	TZL1N-L96-10000M-FST-MVOLT-30K-80CR
Notes	
Type	B

LED Striplight

ZL1N

24", 48" and 96" Lengths



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

Finish: Paint options include high-gloss, baked white enamel (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard**. This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide nominal 80 CRI at 3000 K, 3500 K,4000 K, or 5000 K.

Lumen output up to 2,000 lumens per foot. In 86°F (30°C) ambient environments. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Tool-less channel cover for easy installation.

Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Three-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

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.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

ZL1N LED Striplight

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** ZL1N L48 3000LM FST MVOLT 40K 80CRI WH

Series		Length		Reflectors[2]		Nominal lumens[3]		Diffuser		Voltage	
ZL1N	LED striplight	L24	24" [1]	(blank)	Less reflector	1500LM	1,500 lumens	FST	Snap on frosted, diffuse	MVOLT	120-277V
				SMR	Symmetric	2500LM	2,500 lumens	L/LENS	No diffuser	120	120V
						3500LM	3,500 lumens	SBL FST	Straight blade louver with snap on frosted, diffuse	208	208V
		L46	46"	(blank)	Less reflector	3000LM	3,000 lumens			240	240V
		L48	48"	ASR	Asymmetric (L48 only)	5000LM	5,000 lumens			277	277V
				SMR	Symmetric	7000LM	7,000 lumens			347	347V [4]
TZL1N	LED striplight	L92	92"	(blank)	Less reflector	6000LM	6,000 lumens			480	480V [4]
		L96	96"	SMR	Symmetric	10000LM	10,000 lumens				
						14000LM	14,000 lumens				

Color temperature		Color rendering index		Options			Paint finish	
30K	3000 K	80CRI	80 CRI	PLR__	Plug-in wiring[5,6]	**Individual Controls**[5]	WH	White
35K	3500 K	90CRI	90 CRI	PLR1LVG	Plug-in wiring-low voltage[5,6]	LBOZU 360° low mount motion sensor, pre-wired[10]	GALV	Galvanized
40K	4000 K			E7W	Emergency battery pack, 7W CA Title 20 Noncompliant[7]	LBH0SZU 360° low mount motion sensor with dimming, pre-wired[10]	MB	Matte black
50K	5000 K			2E7W	Two Emergency battery packs, 7W CA Title 20 Noncompliant[7,8]	LBPZU 360° low mount motion sensor with photocell, pre-wired[10]	SKGY	Smoke gray
				E10WLCP	Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7]	LBM0SZU 360° low mount motion sensor, dimming & switching photocell, pre-wired[10]		
				2E10WLCP	Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	**Cord sets:**[11]		
				E15WLCP	Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	CS1W Straight plug, 120V		
				OUTEND	Cord set to exit endplate of fixture	CS3W Twist-lock, 120V		
				Wireless Controls[5]		CS7W Straight plug, 277V		
				NLTAIR2 RLSXR10	nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	CS11W Twist-lock, 277V		
				NLTAIR2 RLSXR10EM	nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation[9]	CS25W Twist-lock, 347V		
						CS97W Twist-lock, 480V		
						CS93W 600V SEOOW white cord, no plug (no voltage required)		

Accessories: *Order as separate catalog number.*

HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch® LSXR occupancy sensor [4]	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WGZ24	24" wireguard, white [12]	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WGZ48	48" wireguard, white [12,13]	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

1 Not available with 347V, 480V or Batteries
2 Optional. Reflectors ship separately.
3 See Operational Data on page 2 for actual lumens.
4 Utilizes step down transformer.
5 See ordering information on pages 4 and 5 and rLSXR specification sheet for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
6 Not available with cord sets.
7 MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
8 Only available with 10,000LM and 14,000LM packages.
9 MVOLT only.
10 Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient Sensors come prewired, they must be snapped into place at time of installation.
11 Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
12 Not compatible with reflector
13 Order 2 for tandem double length fixtures (TZL1N).

OPERATIONAL DATA

	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI		
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID
Unlensed	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	92 or 96	9404	7667	9614	7937	9764	8087	10123	8266	68	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	92 or 96	13485	10994	13786	11381	14001	11596	14516	11853	104	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID

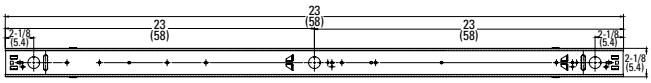
DIMENSIONS

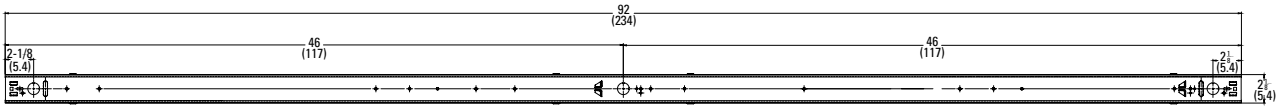
All dimensions are shown in inches (centimeters) unless otherwise noted.

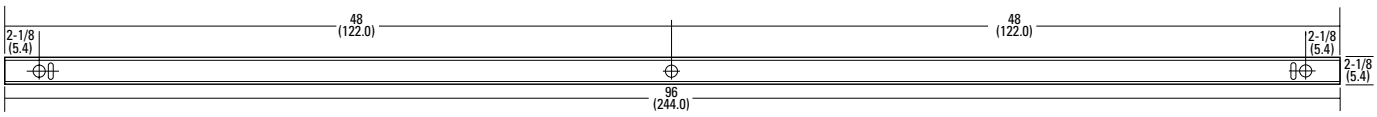
Specifications subject to change without notice.

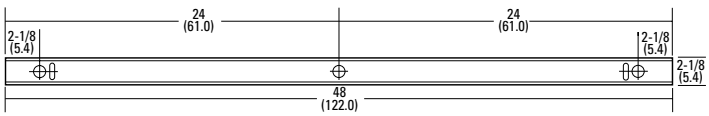
PALLET DIMENSIONS

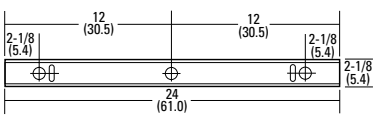
Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	7 lbs.	408	46" X 51" X 32 11/16"
L46	11 lbs.	176	46" X 51" X 32 1/16"
L48	12 lbs.	176	46" X 51" X 31 3/8"
L92	22 lbs.	176	46" X 98 1/2" X 31 1/16"
L96	24 lbs.	176	46" X 98 1/2" X 31 1/16"



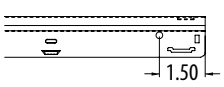




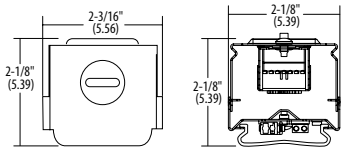




Mounting Hole Location - All Lengths



Knockout hole is .86in in diameter.

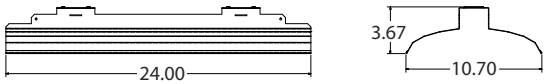


PHOTOMETRICS

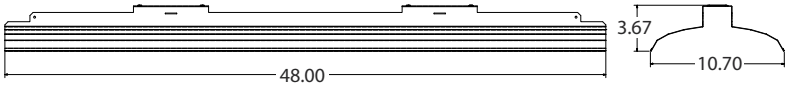
Please see www.lithonia.com

REFLECTORS (Optional)

L24 Reflector



L48 Reflector



L96 Reflector



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.

Wiring



PLR

Advanced 1 or 2-Circuit Plug-In

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires		Branch circuits				Dimming		Ground	
			Circuits to which ballast is connected		Emergency circuit connected					
PLR	(blank)	Not required for 22	(blank)	Not required for 22 or PLR1	(blank)	No emergency circuit	LV	Low-voltage dimming	G	Ground, required
PLR22	1	Black	A	Black wire	ELA	Emergency circuit wired to black wire				
	2	Black and red	B	Red wire	ELB	Emergency circuit wired to red wire				

Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits, 2-circuit (PLR 22)
- Multiple circuit with night-lights located along row as desired

LSXR – Fixture Mount Occupancy Sensor (see www.AcuityControls.com for additional information)

- Three interchangeable lens options to satisfy multiple mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LC0ZU	CMRB 50	MSI
LCH0SZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LA0ZU	CMRB 6	MSI360
LAH0SZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

SINGLE RELAY

ORDERING INFORMATION

Example: LAH0SZU

Series	Lens option	Dimming/Photocell	Max. dim level	Min. dim level	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	0 None[1] H High/low occupancy operation P Switching photocell (on/off)[1] M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	S Minimum dim level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None T Low temperature[2]	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

Notes

1 Max and min dim levels not applicable with this option.

2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

DUAL RELAY (Available with 120, 277, and 347V only)

ORDERING INFORMATION

Example: LA2KZU

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell(on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low temperature[1]	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

Notes

1 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

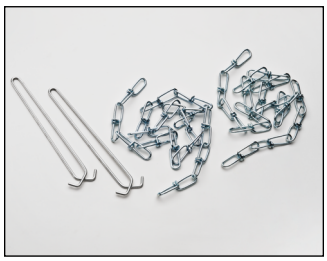
Example: LENS 50 J100

Replacement lenses: *Order as separate catalog number.*

Series	Lens type	Package quantity
LENS	6 High mount 360° 10 Low mount 360° 50 High mount aisleway	[blank] Single Lens J10 10-pack J100 100-pack

OPTIONS AND ACCESSORIES

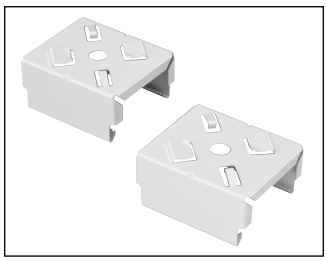
The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.



HANGER CHAIN

36" chain with Y hanger.

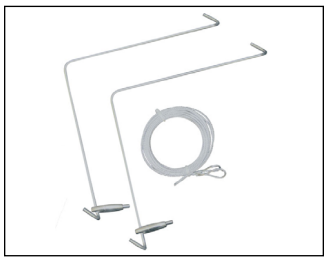
Order as:
HC36



Z SPRING HANGER

Snap 'n' lock design requires no fasteners and can be used on T-grid ceiling or universal mounting systems.

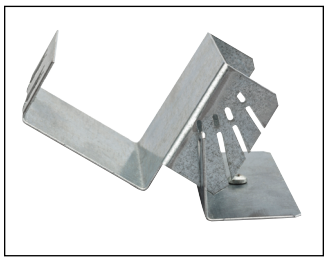
Order as:
ZSPRG



ZACVH HANGER

10' Aircraft cable with Y hanger.

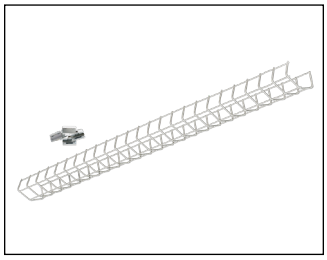
Order as:
ZACVH



ANGLE MOUNTING BRACKET

Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WGZ24
WGZ48

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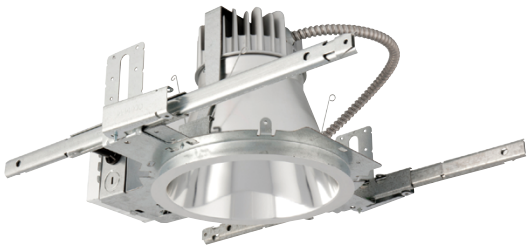
gotham® | E V O®

Multiple Layers of Light

Luminaire Type: C

Catalog Number: EVO-30/30-8AR-WD-120-TRV

General Illumination Round Downlight 8"



OVERVIEW

Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces

Distribution

very narrow 0.5 S:MH | narrow 0.7 S:MH | medium 0.9 S:MH | medium wide 1.0 S:MH | wide 1.2 S:MH

Superior Perfomance

Nominal Lumens	2000	2500	3000
Delivered Lumens	2,287	2,964	3,398
Wattage	31.6	41.1	47.1
Efficacy	72.5	72	72.2

COMPLIMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core

Downlight | Open Wallwash | Lensed Wallwash | Cylinder | Downlight | Adjustable | Lensed Wallwash | Cylinder

Healthcare

MRI | Surgical Suite | Patient Room

Special Applications

Dynamic | Food Service | Vandal | Clean Room | Shower

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

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ORDERING INFORMATION

A+ Capable options indicated by this color background.

Design2Ship Quick Ship Program: Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details. **Maximum Order Quantity: 100 units; 50 for Chicago Plenum.**

Luminaire Type: C

Catalog Number:

EXAMPLE: EV08 35/30 AR MWD LSS 277 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Distribution	Finish	Voltage
EV08	27/ 2700 K 30/ 3000 K 35/ 3500 K 40/ 4000 K 50/ 5000 K	20 2000 lumens 25 2500 lumens 30 3000 lumens	AR Clear PR Pewter WTR Wheat GR Gold WR[1] White BR[1] Black WRAMF[1] White Anti-microbial	(blank) Self-flanged	VND Very Narrow (0.5 s/mh) ND Narrow (0.7 s/mh) MD Medium (0.9 s/mh) MWD Medium wide (1.0 s/mh) WD Wide (1.2 s/mh)	LSS Semi-specular LD Matte-diffuse LS Specular	120 277 347[2,3]

Driver[4]		Control Interface		Options	
GZ10	0-10V driver dims to 10%	NLT[6]	nLight® dimming pack controls	SF	Single fuse. Specify 120V or 277V.
GZ1	0-10V driver dims to 1%	NLTER[2,6,10]	nLight® dimming pack controls emergency circuit	TRW[7]	White painted flange
EZ10	eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTAIR2[13]	nLight® Air enabled	TRBL[8]	Black painted flange
EZ1	eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIRER2[2,10,13]	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	EL	Emergency battery pack, 10W, with integral test switch
EZB	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	EXA1	XPoint Wireless, eldoLED 0-10V ECOdrive. Linear dimming to 1%. Refer to XPoint tech sheet.	ELR	Emergency battery pack, 10W, with remote test switch
EDAB[5]	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	EXAB	XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.	ELSD	Emergency battery pack, 10W, with self-diagnostics, integral test switch
EDXB[5]	eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor.			ELRSD	Emergency battery pack, 10W, with self-diagnostics, remote test switch
ECOS2[5]	Lutron® Hi-Lume® 2-wire forward-phase driver. 120V only. Minimum dimming level 1%.			E10WCP	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch
ECOD[5]	Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Maximum 2500 lumens.			E10WCPR	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch
				N80[11]	nLight® Lumen Compensation
				BGTD	Bodine generator transfer device. Specify 120V or 277V.
				90CRI	High CRI (90+)
				CP[12]	Chicago Plenum. Specify 120V or 277V.
				RRL__	RELOC®-ready Luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to TECH-190.
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
GVRT	Vandal-resistant trim accessory. Refer to TECH-200.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC.

ORDERING NOTES

1. Not available with finishes.
2. Not available with GZ10, GZ1, EL or ELR options.
3. Supplied with factory installed step down transformer.
4. Refer to TECH-240 for compatible dimmers.
5. Not available with nLight® and XPoint options.
6. Must specify voltage 120V or 277V.
7. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (white reflector).
8. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (black reflector).
9. For dimensional changes, refer to TECH-140. Not available with 347V.
10. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
11. Fixture begins at 80% light level. Must be specified with eldoLED drivers and NLT or NLTER.
12. Not available with ELR, EXA1 or EXAB.
13. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

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SPECIFICATIONS

Optical Assemby
Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling.

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control.

Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical
The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

Controls
Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming
The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction
Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5")

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings
Fixtures are CSA certified to meet US and Canadian standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling.

Photometrics
LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 6,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

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.

A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

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EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Square	Linear

Lumen Output Multiplier		
CRI	CCT	Multplier
80	2700K	0.96
	3000K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Distributions		
Nomenclature	Beam Angle	Field Angle
VND	30	64
ND	44	69
MD	54	82
MWD	67	89
WD	71	92

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

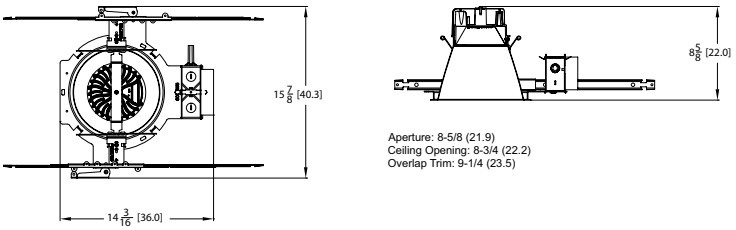
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

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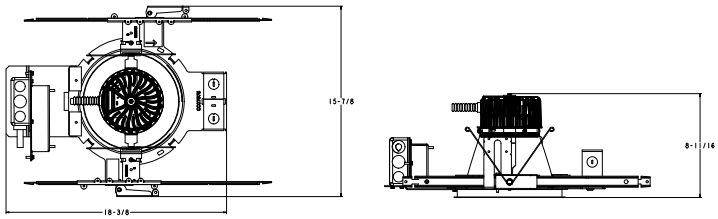
DIMENSIONAL DATA

Aperture: 8-5/8 (21.9)
Ceiling Opening: 8-3/4 (22.2)
Overlap Trim: 9-1/4 (23.5)

2,000-3,000LM Standard



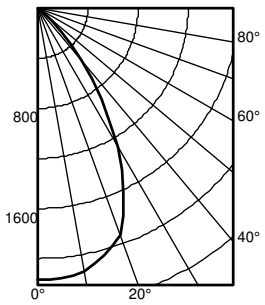
2,000-3,000LM Drive Open Frame CP



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Photometry

EV08 30/20 AR MWD LS INPUT WATTS: 31.5, DELIVERED LUMENS: 2287.4, LPW= 72.6, 1 S/MH, TEST NO. LTL27655P301



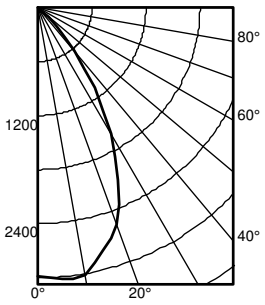
	Ave	Lumens
0	2172	
5	2166	206
15	2042	575
25	1625	740
35	887	552
45	254	203
55	4	10
65	1	1
75	0	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	1520.8	66.5
0° - 40°	2072.7	90.6
0° - 60°	2286.3	99.9
0° - 90°	2287.4	100.0
90° - 180°	0.0	0.0
0° - 180°	2287.4	*100.0
*Efficiency		

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	108	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	95	90	86	94	89	86	91	87	84
4	89	83	79	88	82	78	86	81	77
5	83	77	72	82	76	72	80	75	71
6	77	71	67	77	71	67	75	70	66
7	73	66	62	72	66	62	71	65	61
8	68	62	58	67	62	58	66	61	57
9	64	58	54	63	58	54	63	57	53
10	60	54	50	60	54	50	59	54	50

		50% beam - 53.2°		10% beam - 81.3°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	71.8	5.5	35.9	9.4	7.2
10.0	38.6	7.5	19.3	12.9	3.9
12.0	24.1	9.5	12.0	16.3	2.4
14.0	16.4	11.5	8.2	19.8	1.6
16.0	11.9	13.5	6.0	23.2	1.2

EV08 30/25 AR MWD LS INPUT WATTS: 41, DELIVERED LUMENS: 2964, LPW = 72.3, 0.98S/MH, TEST NO. LTL27654P200



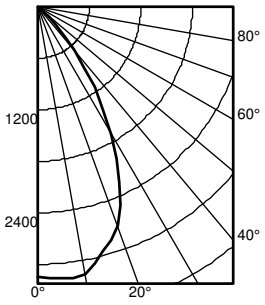
	Ave	Lumens
0	2986	
5	3029	289
15	2791	785
25	2115	963
35	1092	680
45	291	235
55	4	11
65	1	1
75	0	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	2036.1	68.7
0° - 40°	2716.5	91.6
0° - 60°	2962.6	99.9
0° - 90°	2964.1	100.0
90° - 180°	0.0	0.0
0° - 180°	2964.1	*100.0
*Efficiency		

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	105	103	101
2	103	99	95	101	98	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	80	88	83	79	86	82	78
5	84	78	73	83	77	73	81	76	72
6	78	72	68	77	72	68	76	71	67
7	73	67	63	73	67	63	71	66	63
8	69	63	59	68	63	59	67	62	58
9	65	59	55	64	59	55	64	58	55
10	61	55	52	61	55	51	60	55	51

		50% beam - 51.5°		10% beam - 79.5°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	98.7	5.3	49.3	9.1	9.9
10.0	53.1	7.2	26.5	12.5	5.3
12.0	33.1	9.2	16.5	15.8	3.3
14.0	22.6	11.1	11.3	19.1	2.3
16.0	16.4	13.0	8.2	22.4	1.6

EV08 30/30 AR MWD LS INPUT WATTS: 42.3, DELIVERED LUMENS: 3125.8, LPW=73.8, 0.99 S/MH, TEST NO. 27848P202



	Ave	Lumens
0	3153	
5	3181	303
15	2952	829
25	2247	1021
35	1148	716
45	299	242
55	6	13
65	2	2
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	2152.4	68.9
0° - 40°	2868.6	91.8
0° - 60°	3123.1	99.9
0° - 90°	3125.7	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	3125.7	*100.0
*Efficiency		

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	105	103	101
2	103	99	95	101	98	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	80	88	83	79	86	82	78
5	84	78	73	83	77	73	81	76	72
6	78	72	68	77	72	68	76	71	67
7	73	67	63	73	67	63	71	66	63
8	69	63	59	68	63	59	67	62	58
9	65	59	55	65	59	55	64	58	55
10	61	55	52	61	55	51	60	55	51

		50% beam - 51.6°		10% beam - 79.3°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	104.2	5.3	52.1	9.1	10.4
10.0	56.1	7.3	28.0	12.4	5.6
12.0	34.9	9.2	17.5	15.8	3.5
14.0	23.8	11.1	11.9	19.1	2.4
16.0	17.3	13.1	8.7	22.4	1.7

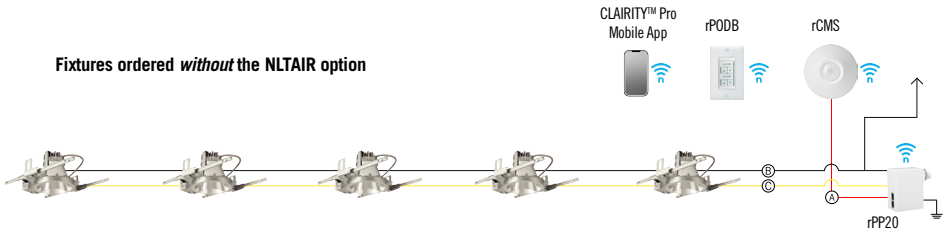
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NLIGHT AIR

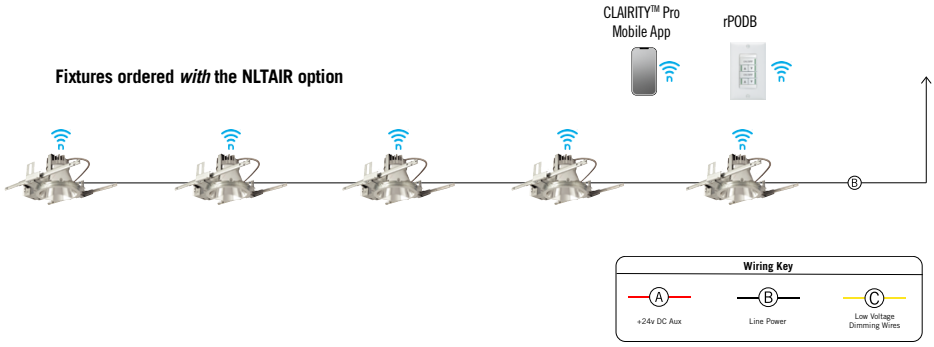
nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

Possibilites for nLight® AIR

Fixtures ordered *without* the NLTAIR option



Fixtures ordered *with* the NLTAIR option



nLight® AIR Control Accessories *Order as separate catalog number. Visit nLight AIR.*	
Wall Switches	**Model Number**
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

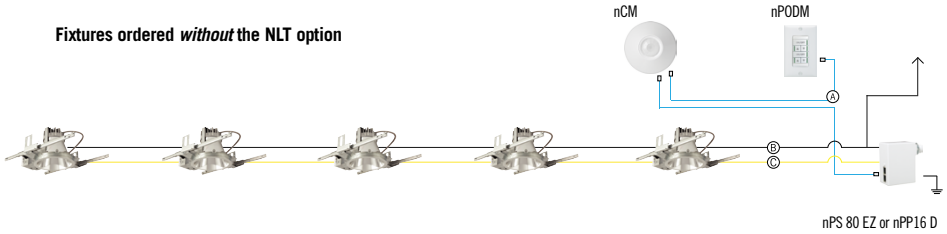
nLight® AIR Control Accessories *(cont.)*	
Occupancy Sensors (PIR/dual tech)	**Model Number**
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

NLIGHT

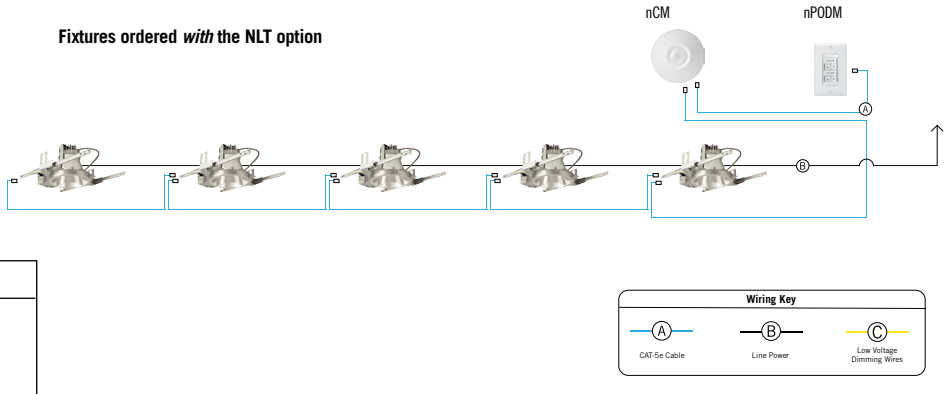
nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

Possibilites for nLight® wired

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option



nLight® Wired Control Accessories *Order as separate catalog number. Visit nLight.*	
Wall Switches	**Model Number**
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)
Photocell Controls	
Dimming	nCM ADCX

nLight® Wired Control Accessories *(cont.)*	
Occupancy Sensors (PIR/dual tech)	**Model Number**
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

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Catalog # : SEE CUTSHEET - TYPES D-E-F
Project : KWIK TRIP-FITCHBURG WI 1166
Prepared By : AMM
Date : 12-04-20

Slice Medium (SLM)

Outdoor LED Area Light



OVERVIEW	
Lumen Package	9,000 - 42,000
Wattage Range	69 - 390
Efficacy Range (LPW)	93 - 145
Weight lbs(kg)	30 (13.6)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 30 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 5 for more details.

Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 3)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L lumen package rated to +40ºC.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor (see page 5 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 5 for more details.

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.

Specifications and dimensions subject to change without notice.

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Slice Medium Outdoor LED Area Light

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **SLM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation[2]	Voltage	Driver
SLM - Slice Medium	**LED**	**9L** - 9,000 lms **12L** - 12,000 lms **18L** - 18,000 lms **24L** - 24,000 lms **30L** - 30,000 lms **36L** - 36,000 lms **42L** - 42,000 lms **Custom Lumen Packages**[1]	**SIL** - Silicone	**2** - Type 2 **3** - Type 3 **5W** - Type 5 Wide **FT** - Forward Throw **FTA** - Forward Throw Automotive **AM** - Automotive Merchandise	**(blank)** - standard **L**- Optics rotated left 90° **R** - Optics rotated right 90°	**UNV** - Universal Voltage (120-277V) **HV** - High Voltage (347-480V)	**DIM** - 0-10V Dimming (0-10%)

TYPE E

TYPE D & F

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT **40** - 4,000 CCT **30** - 3,000 CCT **AMB** - Phosphor Converted Amber[12]	**70CRI** - 70 CRI	**(Blank)** - None **Wireless Controls System** **ALSC** - AirLink Synapse Control System **ALSCH** - AirLink Synapse Control System Host / Satellite[3] **ALSCS02** - AirLink Synapse Control System with 12-20' Motion Sensor **ALSCHS02** - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor[3] **ALSCS04** - AirLink Synapse Control System with 20-40' Motion Sensor **ALSCHS04** - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor[3] **ALBCS1** - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)[4] **ALBCS2** - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)[4] **Stand-Alone Controls** **EXT** - 0-10V Dimming leads extended to housing exterior **CR7P** - 7 Pin Control Receptacle ANSI C136.41[6] **IMSBT1-** Integral Bluetooth™ Motion and Photocell Sensor max 8-24' mounting height[4,5] **IMSBT2-** Integral Bluetooth Motion and Photocell Sensor max 25-40' mounting height[4,5] **Button Type Photocells** **PCI120** - 120V **PCI208-277** - 208 -277V **PCI347** - 347V	**BRZ** - Bronze **BLK** - Black **GPT** - Graphite **MSV** - Metallic Silver **WHT** - White **PLP** - Platinum Plus **SVG** - Satin Verde Green	**(Blank)** - None **IH** - Integral Houseside Shield[2] **IL** - Integral Louver (Sharp Spill Light Cutoff)[2]

TYPE D

Accessories Ordering Information[7]

Controls Accessories

Description	Order Number
PC120 Photocell for use with CR7P option (120V)[8]	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V)[8]	122515
Twist Lock Photocell (347V) for use with CR7P [8]	122516
Twist Lock Photocell (480V) for use with CR7P [8]	1225180
AirLink 5 Pin Twist Lock Controller [8]	661409
AirLink 7 Pin Twist Lock Controller [8]	661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V) [9,10]	663284CLR
Shorting Cap for use with CR7P [8]	149328

Fusing Accessories[11]

Description	Order Number
Single Fusing (120V)	FK120
Single Fusing (120V)	FK277
Double Fusing (208V, 240V)	DFK240
Double Fusing (480V)	DFK480
Double Fusing (347V)	DFK347

Mounting Accessories[9]

Description	Order Number
Round Pole Adapter (3" Round/Tapered Poles)	408273CLR
Round Pole Adapter (4" Round Poles)	379967CLR
Round Pole Adapter (5" Round Poles)	379968CLR
Universal Mounting Bracket	684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	688138CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)	688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)	689905CLR
Wall Mount Bracket	382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)	751219CLR

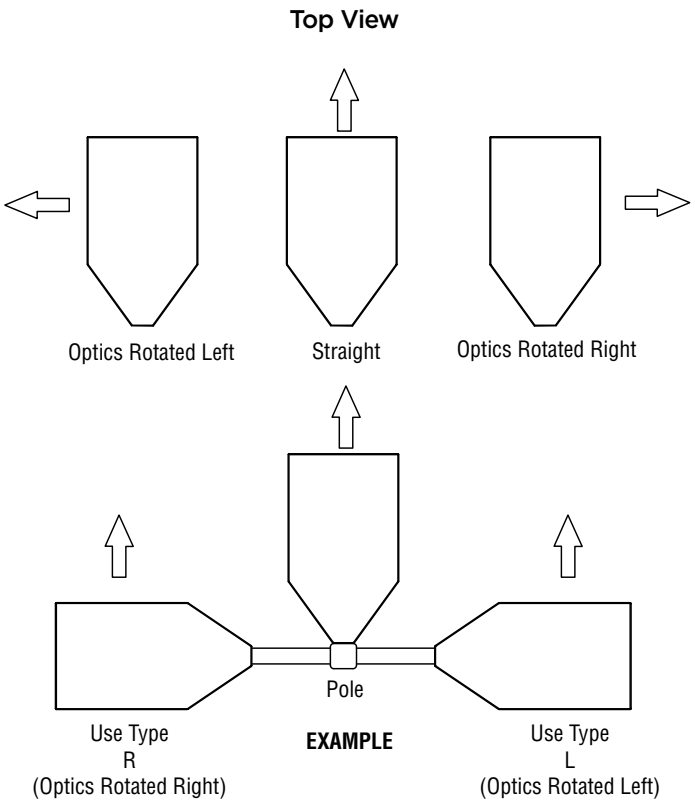
Shielding & Miscellaneous Accessories

Description	Order Number
IH - Integral Louver/Shield[2]	684812
IL - Integral Houseside Shield[2]	743414
10' Linear Bird Spike Kit (6' Recommended per Luminaire)	736795

FOOTNOTES:
1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available on "Type 5W" distribution.
3. Consult Factory for Site Layout
4. Not available in HV.
5. IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole.
12. Only available in 9L and 12L Lumen Packages. Consult factory for lead time and availability.

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OPTICS ROTATION



ACCESSORIES/OPTIONS

Integral Louver (IL) and House-Side Shield (IH)

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate with the optical distribution.

Luminaire Shown with Integral Loxquver (IL)



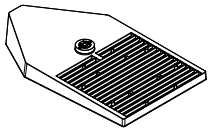
Luminaire Shown with IMSBT Option



7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Fixture Shown with CR7P



PERFORMANCE

Back to Quick Links

Delivered Lumens*

Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
9L	2	70	8956	131	B2-U0-G2	9427	138	B2-U0-G2	9838	144	B2-U0-G2	68
	3		9088	133	B2-U0-G2	9566	140	B2-U0-G2	9983	146	B2-U0-G2	
	5W		8431	123	B3-U0-G2	8875	130	B3-U0-G2	8262	135	B3-U0-G2	
	FT		9046	133	B2-U0-G2	9522	140	B2-U0-G2	9937	146	B2-U0-G2	
	FTA		8993	131	B2-U0-G2	9466	138	B2-U0-G2	9879	144	B2-U0-G2	
	AM		8953	132	B2-U0-G1	9817	144	B2-U0-G2	10210	150	B2-U0-G2	
12L	2	70	11842	127	B3-U0-G2	12465	134	B3-U0-G2	13009	140	B3-U0-G2	93
	3		12017	129	B2-U0-G2	12649	136	B2-U0-G2	13200	142	B2-U0-G2	
	5W		11149	120	B4-U0-G2	11735	126	B4-U0-G2	12247	132	B4-U0-G2	
	FT		11962	128	B2-U0-G2	12591	135	B2-U0-G2	13140	141	B2-U0-G3	
	FTA		11891	128	B3-U0-G3	12517	134	B3-U0-G3	13062	140	B3-U0-G3	
	AM		11997	129	B2-U0-G2	13155	141	B3-U0-G2	13681	147	B3-U0-G2	
18L	2	70	17722	119	B3-U0-G3	18655	126	B3-U0-G3	19468	131	B3-U0-G3	149
	3		17984	121	B2-U0-G3	18930	127	B3-U0-G3	19755	133	B3-U0-G3	
	5W		16685	112	B4-U0-G2	17563	118	B4-U0-G2	18328	123	B4-U0-G2	
	FT		17901	121	B3-U0-G3	18843	127	B3-U0-G3	19664	132	B3-U0-G4	
	FTA		17796	120	B3-U0-G3	18732	126	B3-U0-G3	19549	132	B3-U0-G3	
	AM		17906	121	B3-U0-G2	19634	133	B3-U0-G2	20419	148	B3-U0-G2	
24L	2	70	24122	128	B4-U0-G3	24851	132	B4-U0-G3	25119	133	B4-U0-G3	189
	3		24945	132	B3-U0-G3	25699	136	B3-U0-G4	25976	138	B3-U0-G4	
	5W		22673	122	B5-U0-G3	23667	125	B5-U0-G3	23823	127	B5-U0-G3	
	FT		24276	129	B3-U0-G4	25010	132	B3-U0-G4	25280	134	B3-U0-G4	
	FTA		24715	131	B3-U0-G3	25462	135	B3-U0-G3	25737	136	B3-U0-G3	
	AM		24056	127	B3-U0-G2	25729	136	B3-U0-G3	26243	139	B3-U0-G3	
30L	2	70	30286	122	B4-U0-G3	31201	126	B4-U0-G3	31538	127	B4-U0-G3	249
	3		31319	126	B3-U0-G4	32266	130	B3-U0-G4	32614	131	B3-U0-G4	
	5W		28843	116	B5-U0-G3	29715	120	B5-U0-G3	30036	121	B5-U0-G4	
	FT		30479	123	B3-U0-G4	31401	126	B3-U0-G4	31740	128	B3-U0-G5	
	FTA		31030	125	B3-U0-G3	31969	129	B4-U0-G3	32314	130	B4-U0-G3	
	AM		30471	122	B3-U0-G3	32590	131	B3-U0-G3	33242	134	B3-U0-G3	
36L	2	70	36082	114	B4-U0-G4	37173	117	B4-U0-G4	37574	118	B4-U0-G4	318
	3		37313	117	B3-U0-G4	38442	121	B3-U0-G4	38857	122	B4-U0-G4	
	5W		34363	108	B5-U0-G4	35402	111	B5-U0-G4	35784	113	B5-U0-G4	
	FT		36313	114	B3-U0-G5	37411	118	B4-U0-G5	37815	119	B4-U0-G5	
	FTA		36969	116	B4-U0-G4	38087	120	B4-U0-G4	38498	121	B4-U0-G4	
	AM		36718	115	B3-U0-G3	39270	123	B4-U0-G3	40056	126	B4-U0-G3	
42L	2	70	41060	104	B5-U0-G4	42301	108	B5-U0-G4	42758	109	B5-U0-G4	393
	3		42461	108	B4-U0-G5	43745	111	B4-U0-G5	44217	112	B4-U0-G5	
	5W		39104	99	B5-U0-G4	40286	102	B5-U0-G4	40721	104	B5-U0-G4	
	FT		41323	105	B4-U0-G5	42572	108	B4-U0-G5	43032	109	B4-U0-G5	
	FTA		42069	107	B4-U0-G4	43341	110	B4-U0-G4	43809	111	B4-U0-G4	
	AM		42205	107	B4-U0-G3	45138	114	B4-U0-G3	46041	116	B4-U0-G3	

PERFORMANCE (CONT.)

ELECTRICAL DATA (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	68.2	0.6	0.3	0.3	0.2	0.2	0.1
12L	93.1	0.8	0.4	0.4	0.3	0.3	0.2
18L	148.5	1.2	0.7	0.6	0.5	0.4	0.3
24L	188.8	1.6	0.9	0.8	0.7	0.5	0.4
30L	248.6	2.1	1.2	1.0	0.9	0.7	0.5
36L	317.8	2.6	1.5	1.3	1.1	0.9	0.7
42L	393.4	3.3	1.9	1.6	1.4	1.1	0.8

*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

RECOMMENDED LUMEN MAINTENANCE[1] (9-18L)					
Ambient	Intial[2]	25h[2]	50hr[2]	75hr[2]	100hr[2]
0 C	100%	97%	94%	90%	87%
10 C	100%	97%	94%	90%	87%
20 C	100%	97%	94%	90%	87%
25 C	100%	97%	93%	90%	86%
30 C	100%	97%	93%	89%	86%
40 C	100%	97%	92%	88%	84%
50 C	100%	96%	91%	87%	83%

RECOMMENDED LUMEN MAINTENANCE[1] (42L)					
Ambient	Intial[2]	25h[2]	50hr[2]	75hr[2]	100hr[2]
0 C - 40C	100%	100%	97%	94%	92%

FOOTNOTES:
1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

PHOTOMETRICS

Back to Quick Links

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See http://www.lsi-industries.com/products/led-lighting-solutions.aspx for detailed photometric data.

SLM-LED-30L-SIL-2-40-70CRI

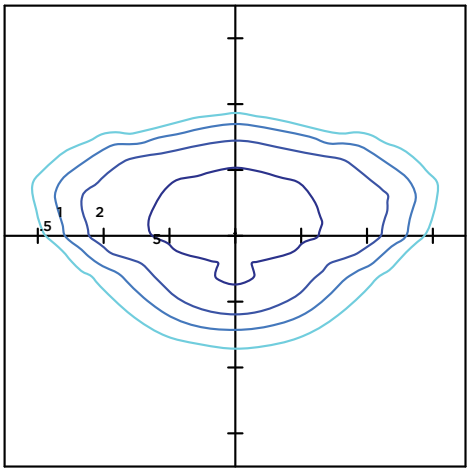
LUMINAIRE DATA

Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,201
Watts	248.6
Efficacy	126
IES Type	Type II - Short
BUG Rating	B4-U0-G3

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	4375	14%
Medium (30-60)°	18726	60%
High (60-80)°	7949	25%
Very High (80-90)°	152	0%
Uplight (90-180)°	0	0%
Total Flux	31201	100%

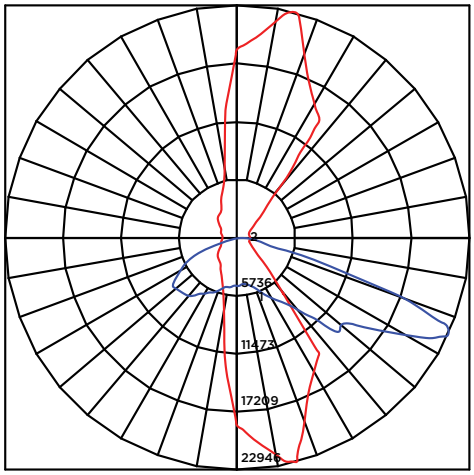
ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

POLAR CURVE



PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-3-40-70CRI

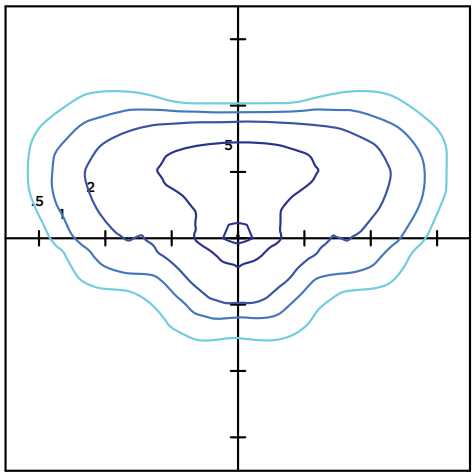
LUMINAIRE DATA

Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,266
Watts	248.6
Efficacy	130
IES Type	Type III - Short
BUG Rating	B3-U0-G4

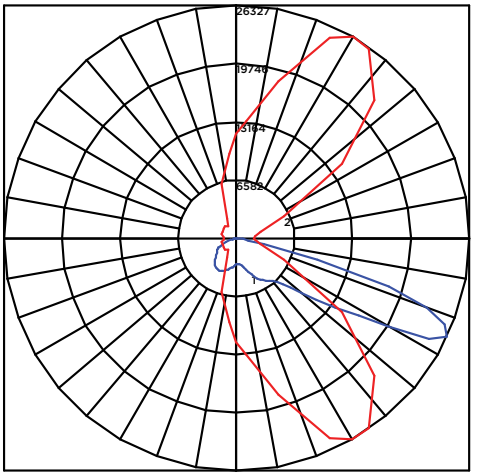
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	3497	11%
Medium (30-60)°	16867	52%
High (60-80)°	11653	36%
Very High (80-90)°	248	1%
Uplight (90-180)°	0	0%
Total Flux	32266	100%

ISO FOOTCANDLE



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

5 FC **2 FC** **1 FC** **0.5 FC**

SLM-LED-30L-SIL-FT-40-70CRI

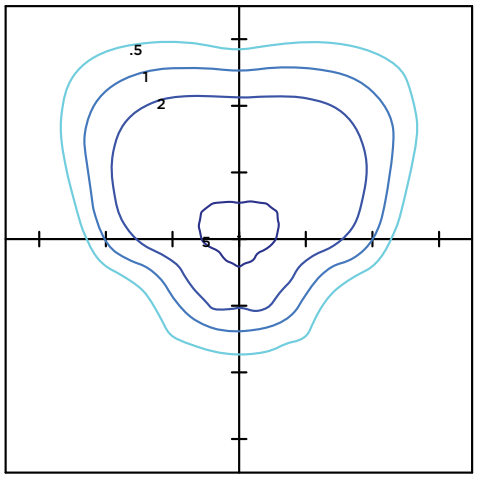
LUMINAIRE DATA

Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,401
Watts	248.6
Efficacy	126
IES Type	Type IV - Short
BUG Rating	B3-U0-G4

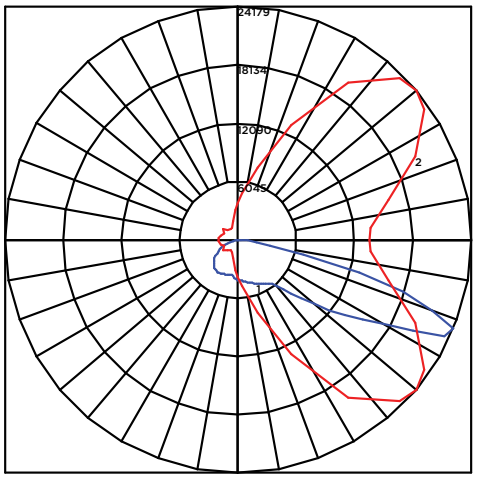
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	3659	12%
Medium (30-60)°	14488	46%
High (60-80)°	12808	41%
Very High (80-90)°	447	1%
Uplight (90-180)°	0	0%
Total Flux	31402	100%

ISO FOOTCANDLE



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

5 FC **2 FC** **1 FC** **0.5 FC**

PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-5W-40-70CRI

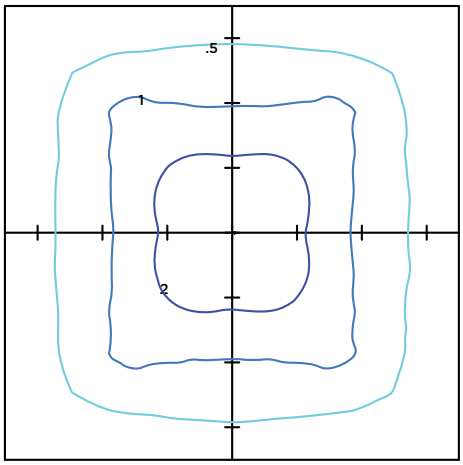
LUMINAIRE DATA

Type 5W Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	29,715
Watts	248.6
Efficacy	120
IES Type	Type IV - Short
BUG Rating	B5-U0-G3

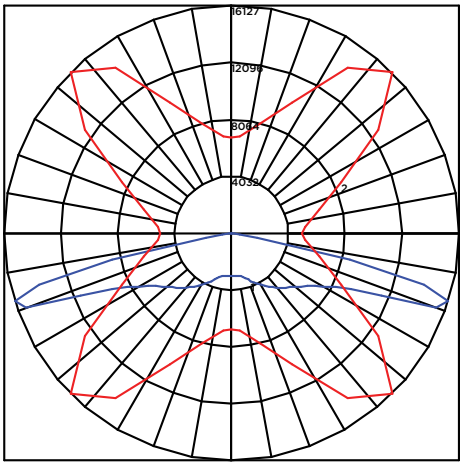
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	2930	10%
Medium (30-60)°	11709	39%
High (60-80)°	14881	50%
Very High (80-90)°	194	1%
Uplight (90-180)°	0	0%
Total Flux	29715	100%

ISO FOOTCANDLE



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

SLM-LED-30L-SIL-FTA-40-70CRI

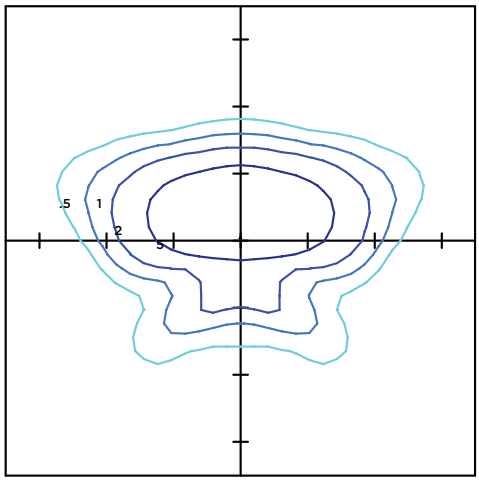
LUMINAIRE DATA

Type FTA Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,970
Watts	248.6
Efficacy	129
IES Type	Type II - Short
BUG Rating	B4-U0-G3

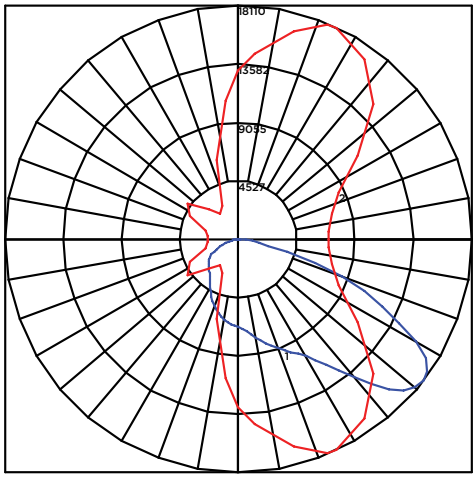
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	5840	18%
Medium (30-60)°	19571	61%
High (60-80)°	6265	20%
Very High (80-90)°	294	1%
Uplight (90-180)°	0	0%
Total Flux	31970	100%

ISO FOOTCANDLE



POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-AM-40-70CRI

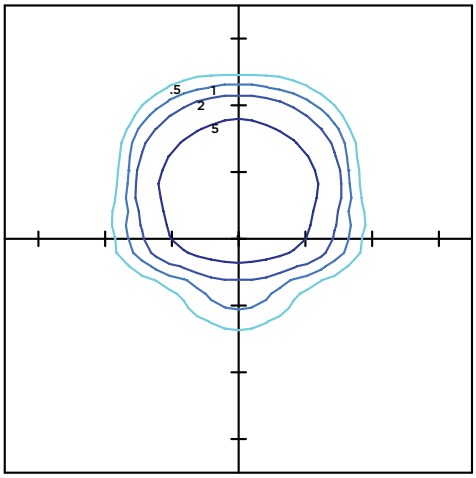
LUMINAIRE DATA

Type AM Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,590
Watts	249
Efficacy	131
IES Type	Type III - Very Short
BUG Rating	B3-U0-G3

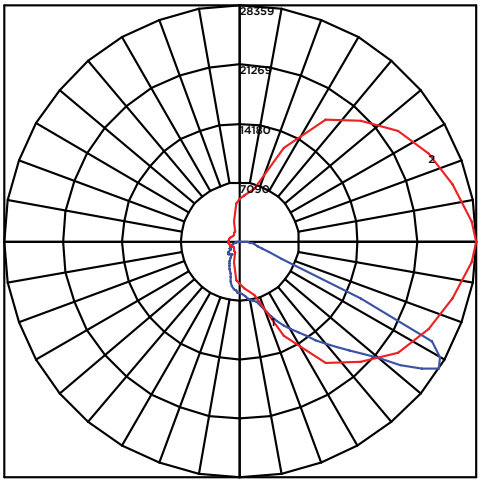
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	5652	17%
Medium (30-60)°	20618	63%
High (60-80)°	5956	18%
Very High (80-90)°	364	1%
Uplight (90-180)°	0	0%
Total Flux	32590	100%

ISO FOOTCANDLE



POLAR CURVE

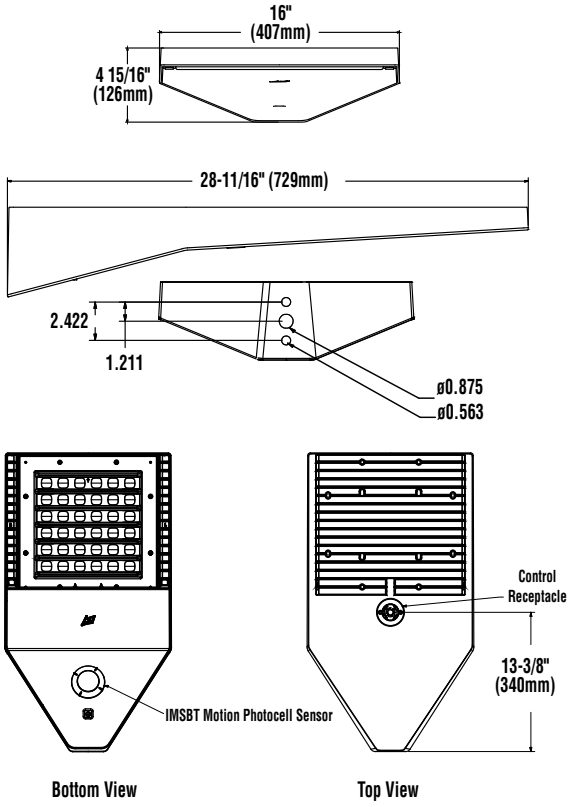


25' Mounting Height/ 25' Grid Spacing

5 FC **2 FC** **1 FC** **0.5 FC**

PRODUCT DIMENSIONS

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LUMINAIRE EPA CHART - SLM

Tilt Degree		0°	30°	45°	Tilt Degree		0°	30°	45°
	Single	0.5	2.1	2.6		T90°	1.2	2.9	3.6
	D180°	1.1	2.1	2.6		TN120°	1.3	4.4	5.4
	D90°	0.9	2.5	3.1		Q90°	1.2	2.9	3.6

CONTROLS

AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system.

The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

https://www.lsi-industries.com/documents/datasheets/airlink-outdoor-specsheet.pdf

Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

Click the link below to learn more details about IMSBT.

https://www.lsi-industries.com/documents/datasheets/imsbt-specsheet.pdf

AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

Click the link below to learn more details about AirLink Blue.

https://www.lsi-airlink.com/airlink-blue/

POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

https://www.lsi-industries.com/products/poles-and-brackets-area-street.aspx



BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5” – 5”.



BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a onto a 2” iron pipe , 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° uptilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI’s 3” or 5” bolt pattern.



BKS PQMH CLR

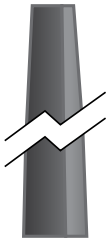
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI’s B3 or B5 standard pole bolt patterns.



Square Pole
14′-39′



Round Pole
10′-30′



Tapered Pole
20′-39′

2792 S Syene Rd
Fire Department Review

After review, the Fire Department has the following comments for the proposed project and building(s):

1. Comply with Fitchburg Ordinance Sec. 44-371 – Access road for construction sites
   Kwik Trip Response: Access Road for Construction Site notes have been added to Sheet SP5.
2. Comply with Fitchburg Ordinance Chapter 44, Article IV, Division 2. – Access for Apparatus
   a. A Fire Apparatus access plan shall be submitted for review.
      Kwik Trip Response: A Fire Apparatus access plan has been provided with this response to comments.
   b. A copy of the Fire Department's Ladder Truck dimensions for Auto-turn planning can be obtained from Deputy Chief Grossen.
      Kwik Trip Response: JSD Professional Services has requested and received the Ladder Truck dimensions from the Fire Department. The access plan is reflective of the Ladder Truck dimensions.

Please have the designer(s) contact me to discuss access requirements.

Thanks,

Chad

Chad Grossen
Deputy Chief – Operations

City of Fitchburg Fire Department
5791 Lacy Road
Fitchburg, WI 53711
(608) 278-2980
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To Serve, To Learn, To Respect, To Lead

CITY OF FITCHBURG
PLANNING DEPARTMENT
5520 LACY ROAD
FITCHBURG, WI 53711
(608) 270-4200
FAX: (608) 270-4275
EMAIL: planning@fitchburgwi.gov

Application: ADR
Property Location: 2792 S Syene Rd
Review Date: November 30, 2020
Planning Staff Review #1

Planning staff has reviewed your submitted ADR request for property associated with 2792 S Syene Rd. The following comments are based on this review. Please respond to each item with a detailed written response, along with appropriate updated plans; by 4:00 pm on Monday, December 7th, or sooner. Further comments or questions may arise as additional review occurs.

1. Lighting shall be dark sky compliant / full cut-off fixtures.
   Kwik Trip Response: All provided fixtures have been revised to be dark sky compliant with full cut-off fixtures per the IDA (International Dark Sky Association).

2. Signage shall comply with Chapter 26 Sign Code. Total signage per business shall not exceed 150 square feet. LED Fuel Pricing sign subject to Plan Commission approval of CUP.
   Kwik Trip Response: Signage plans have been revised.

3. Deed restriction shall be recorded treating the two parcels as one, prior to issuance of permits.
   Kwik Trip Response: Noted.

4. Easements for cross access and stormwater shall be recorded prior to issuance of permits.
   Kwik Trip Response: Noted.

5. Please describe security measures for 24-Hour operation.
   Kwik Trip Response: Kwik Trip facilities are equipped with state-of-the-art security systems and cameras throughout the building, car wash and canopy. If an activity were to happen at or adjacent to the site, we would work with local law enforcement to share our videos with them to report the issue.

6. Please summarize outreach efforts, attendance and feedback from the neighborhood meeting held 11/18.
   Kwik Trip Response: Kwik Trip held a "virtual" neighborhood meeting on November 18, 2020 via Zoom. Approximately 40 people were in attendance including representatives from Kwik Trip and JSD. Prior to the meeting a notice was distributed to the adjacent Swam Creek Neighborhood Association, Uptown residents and The Addison apartments on November 11th. The notice was also posted on the City of Fitchburg's Facebook page. A 2nd update was distributed to the same groups listed above on November 18th after the November 17th Dane County Executive Order was released.

7. Can a 3D rendering be provided, particularly from the intersection?
   Kwik Trip Response: 3D renderings were presented at the neighborhood meeting and also provided with this response to comments.

8. Four bike stalls may not be enough. A few different bike trails link in this area.
   Kwik Trip Response: An additional 6 stalls have been added to the plans for a total of 5 racks or 10 stalls.

9. Will roof top mechanicals be visible from the apartments on E Cheryl?
   Kwik Trip Response: Roof top mechanicals will be screened by the parapet wall on all 4 sides of the building.

10. Potential need for more landscaping near trash enclosure. If delivery truck headlights are facing south, the trash enclosure and Karl Forester Grass may not be adequate for screening. Consider additional evergreens.
    Kwik Trip Response: The proposed modular block retaining wall has been shifted south to accommodate additional landscaping with full-season interest.

11. Comments in neighborhood meeting raised the solar and vehicle charging station topics. Please explain why both were not considered for this site and whether they can be added.
    Kwik Trip Response: Kwik Trip has worked with various energy providers to utilize their power and support their solar stations if available. Kwik Trip is currently testing vehicle charging stations for potential future implementation

12. Adjacent smart code developments require street screens for all parking areas. Areas where this could be added include (1) along the Syene Parking area. Also could be added in layer (2) with landscaping along E Cheryl Parking area and delivery area. Landscaping in the latter area appears to be deciduous. Perhaps evergreen hedge type plantings would be better for year round screening.
    Kwik Trip Response: Additional landscaping has been provided to screen headlights and provide more substantial winter screening.

13. Architecture:
    a. Provide full brick columns on gas canopy.
       Kwik Trip Response: Kwik Trip has revised the canopy elevations with 9' tall brick columns as they're preferred over full brick columns. 9' tall brick columns break up the site lines in the canopy to achieve an articulated look.

    b. Plan Commission may request matching standing seam roof on gas canopy
       Kwik Trip Response: The proposed canopy ties in the existing fascia of the building along with franchise red accent colors

    c. Please label elevations in cardinal directions
       Kwik Trip Response: Elevations have been updated

    d. Left (west) elevation drawing shows windows under gable. Site plan shows as vestibule entrance with doors. Elevation should be updated. Or, are the doors on the side (south wall) of the vestibule?
       Kwik Trip Response: The Site Plan incorporates a small, concrete cut out in front of the gable for a row of ornamental grasses to be installed. The ornamental grasses will anchor the foundation and screen the brick below the windows. A door will be located on the north and south side of the vestibule.

    e. Rear (north) elevation should be improved. While it is the "rear" elevation for the store, it is an important street frontage that faces high quality architecture in the multi-family developments north of E Cheryl. Suggestions: add brick arch detail; add vertical brick

columns with slight bump-out appearance; add windows whereever possible. Will windows in this location be transparent? Opaque? If semi-transparent, what are the interior plans for shelving, etc.? Do not want to see storage units visible on this public frontage.

Kwik Trip Response: The north elevation has been revised to incorporate a brick arch detail, vertical brick columns, and windows where possible. Windows would be semi-transparent as they look directly into the utility room on the north side of the building.

Kwik Trip – Lot 2 CSM 1857 & Outlot 1 Nine Springs
2792 S Syene Road
Public Works Review #1

The following comments are based on the Architectural Design Review (ADR 2020) submitted by Brad Fry dated November 13, 2020 for Lot 2 CSM 1857 & Outlot 1 Nine Springs. TF 11-25-20; AMC x-xx-20; TB 11-23-20; CG x-xx-20; BB 11-30-20. Additional comments beyond these may be required on future reviews.

General Comments

1. Depending on the timeline of construction for Kwik Trip, a subdivision agreement may be required to be executed for all public improvements prior to the release of a building permit or deed combining the lots. A waiver of assessment hearing and non-contest of costs for required improvements may be required if the City will be constructing the required public improvements as part of the South Syene Road reconstruction. (TMF)
   Kwik Trip Response: Noted.
2. Please confirm the sizing and location of the refuse and recycling containers.
   Kwik Trip Response: The trash enclosure is 28'x20'.
3. The applicant will need to submit a Construction & Demolition Reuse/Recycling (CDRR) Plan to Building Inspection. CDRR Plans are required both for new construction and for demolition.
   Kwik Trip Response: Noted.
4. Developer needs to provide a designated location for US Postal Service Centralized Mode of Delivery.
   Kwik Trip Response: Noted. This detail will be provided prior to submittal for Building Permits.
5. Where is the concrete steps with bike channel located? (TB)
   Kwik Trip Response: The detail has been omitted. A step may be needed in the future for the sidewalk that connects to E. Cheryl. That detail will be finalized once KL finalizes their plans.
6. Dedicate r/w along East Cheryl and South Syene to accommodate intersection improvement options prior to the release of a building permit or deed combining the lots. (TMF)
   Kwik Trip Response: Noted.
7. Provide concurrence from utilities (MG&E gas/electric, AT&T, and Charter) that existing easements are sufficient. Record easements if needed. (TMF)
   Kwik Trip Response: Noted.

Transportation Comments

1. The right turn maneuver from E. Cheryl into Kwik Trip requires the semi to use the left turn lane on E. Cheryl. Driveway entrances may be widened with the approval of the DPW provided design justification and use of colored concrete for truck aprons.(TB)
   Kwik Trip Response: N/A. We anticipate KL Engineering will address this comment with their plan development.
2. Coordinate median island length on S. Syene and E. Cheryl with KL Engineering so semi-trucks do not drive over the median islands. (TB)

Kwik Trip Response: N/A. We anticipate KL Engineering will address this comment with their plan development.

3. The median island nose on the east side of No Oaks and East Cheryl should be a tapered round nose, not square. In general, tapered noses should be shown at all openings on East Cheryl and S. Syene in the S. Syene reconstruction plans. (TMF)
   Kwik Trip Response: N/A. We anticipate KL Engineering will address this comment with their plan development.
4. Show truncated domes throughout and sidewalk through the East Cheryl driveway.
   Kwik Trip Response: N/A. We anticipate KL Engineering will address this comment with their plan development.
5. In general, note what will be installed by others. (TMF)
   Kwik Trip Response: Additional detail on what will be installed "By Others" will be provided on the Kwik Trip plans once KL Engineering's plans are refined and finalized.
6. East Cheryl driveway apron needs to be per City specifications (TMF)
   Kwik Trip Response: Noted. The driveway aprons will be adjusted once KL Engineering's plans are refined and finalized.
7. If cycle track will be installed by developer, need details in plans. (TMF)
   Kwik Trip Response: It is Kwik Trip's understanding that cycle track lanes will be designed and installed by the City with the City ROW plans/improvements.

Water Main and Sanitary Sewer Comments

1. Water impact fees will need to be paid prior to release of any building permits. These fees will be included with the permit fee. Please provide the total number of employee hours per week at this facility and a detailed description of what this facility will be used for.
   Kwik Trip Response: Noted.
2. MMSD fees will need to be paid prior to the release of a building permit.
   Kwik Trip Response: Noted.
3. Any outstanding water and sewer assessments will need to be paid in full at the time of sale if they have not already been paid.
   Kwik Trip Response: Noted.
4. The City is strongly encouraging property owners to find ways to reduce chloride levels in their wastewater. Costly wastewater treatment plant upgrades will be required if the peak chloride levels are not reduced. MMSD has a grant program available for water softening. For more information in regards to this grant program please visit https://www.madsewer.org/Programs-Initiatives/Chloride-Reduction.
   Kwik Trip Response: Noted.
5. Note that 1" copper water service shall be abandoned at the public water main per City Specifications.
   Kwik Trip Response: Note has been provided.

6. Private sanitary manhole MH-2 shall be located on private property and not within the r/w.
   Kwik Trip Response: Plans have been revised.
7. Provide isolation valves for each building on the private mains so that both buildings do not need to be shut down to complete work in either building.
   Kwik Trip Response: Plans have been revised.
8. Confirm with the fire department whether any private hydrants are required. Water mains are required to be 8" between the City's main up to private hydrants. These mains are also required to be installed per the latest edition of the City of Fitchburg Standard Specifications for Public Works Construction. If a private hydrant is required update utility Note 3 and 13 on SP 5 accordingly.
   Kwik Trip Response: An additional hydrant has been added.
9. Water needs to be extended from the existing service on Outlot 1 to service the proposed buildings verses a new connection. A private easement needs to be recorded on Outlot 1 for this water service as well as the sanitary service that will service Kwik Trip prior to the release of a building permit or deed combining the lots.
   Kwik Trip Response: Water service has been revised.
10. Note septic system and well to be abandoned. Provide a copy of the DNR well abandonment report to the City.
    Kwik Trip Response: Noted.
11. Please add the flowing utility notes to the plans on SP5:
    a. Per City Ordinance, Contractors are not allowed to operate City owned valves. The Contractor shall call the Fitchburg Utility at 270-4270 for operation of these valves.
       Kwik Trip Response: Noted.
    b. Safe sample results need to be provided to the Fitchburg Utility prior to pressure testing the private water mains.
       Kwik Trip Response: Noted.
    c. It is the contractor's responsibility to verify that the existing valves will hold the pressure test prior to connection. The City is not responsible for any costs incurred due to the contractor not verifying that the existing valve will hold the pressure test prior to connection. If a new valve is required, the applicant will be required to install one at their expense at the point of connection.
       Kwik Trip Response: Noted.
    d. Open pick holes are prohibited on sanitary manholes.
       Kwik Trip Response: Noted.
    e. A street excavation permit is required for all work within the right-of-way (add this note to all general notes within the plans).
       Kwik Trip Response: Note has been added.

Kwik Trip – Lot 2 CSM 1857 & Outlot 1 Nine Springs
2792 S Syene Road
Public Works Review #1

Erosion Control and Stormwater Management (ECSWM) Comments

1. A copy of the CARPC 208 letter needs to be submitted to the City prior to issuance of a building permit.
   Kwik Trip Response: Noted. JSD will forward this to City Engineering once received.
2. A new Erosion Control & Storm Water Management permit application will need to be submitted to the Fitchburg Public Works Department for review and approval if land disturbance will exceed 4,000 s.f. The ECSWM application and information on requirements can be found at: http://www.fitchburgwi.gov/231/ECSWM-Requirements.
   Kwik Trip Response: Applications have already been submitted.
3. A stormwater maintenance agreement (recorded at the Dane County Register of Deeds office) will be required for the necessary private stormwater management practices approved by the City (e.g. private storm sewer, rain gardens, etc.). The owner(s) would be eligible for up to a 50% reduction in stormwater utility rates for the proposed stormwater practices. The following link: http://www.fitchburgwi.gov/230/Credit-Opportunities provides the application form and details on this program.
   Kwik Trip Response: Noted.
4. If infiltration is required to meet the ECSWM requirements, follow the DNR's Site Evaluation for Stormwater Infiltration (1002) guidelines to determine the infiltration rate used for modeling prior to submitting the Stormwater Report.
   Kwik Trip Response: Infiltration is not required.
5. Stormwater facilities should be designed using DNR's post-construction technical standards, available at: https://dnr.wi.gov/topic/stormwater/standards/postconst_standards.html.
   Kwik Trip Response: Noted.
6. Proposed grades cannot block offsite water that drained through the lot in pre-development conditions. Localized ponding should not be created, and drainage of offsite properties should not be impacted by proposed development.
   Kwik Trip Response: Noted.

CITY OF FITCHBURG
PLANNING DEPARTMENT
5520 LACY ROAD
FITCHBURG, WI 53711
(608) 270-4200
FAX: (608) 270-4275
EMAIL: planning@fitchburgwi.gov

Application: ADR
Property Location: 6264 Nesbitt Rd
Review Date: November 30, 2020
Planning Staff Review #1

Planning staff has reviewed your submitted CUP request for property associated with 6264 Nesbitt Rd. The following comments are based on this review. Please respond to each item with a detailed written response, along with appropriate updated plans; by 4:00 pm on Monday, December 7th, or sooner. Further comments or questions may arise as additional review occurs.

1. No concerns with proposed sign. Anticipated conditions as follows:
    a. Applicant shall obtain required sign permit approvals and any required electrical permit prior to installation of sign.
        Kwik Trip Response: Noted.
    b. Other than the motor vehicle fuel price, no other components of the sign shall be LED or electronic.
        Kwik Trip Response: Noted.

2. Signage shall not exceed 150 sq. ft. Applicant is proposing approximately 215 sq. ft. of signage.
    Kwik Trip Response: Signage plan has been updated to remove the monument sign previously proposed northeast of the building.