BLOCK 1 - MILWAUKEE ARENA

DCD SUBMISSION

POPULOUS HNTB eua eppstein uhen : architects

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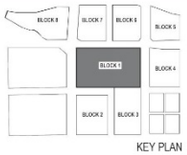
MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

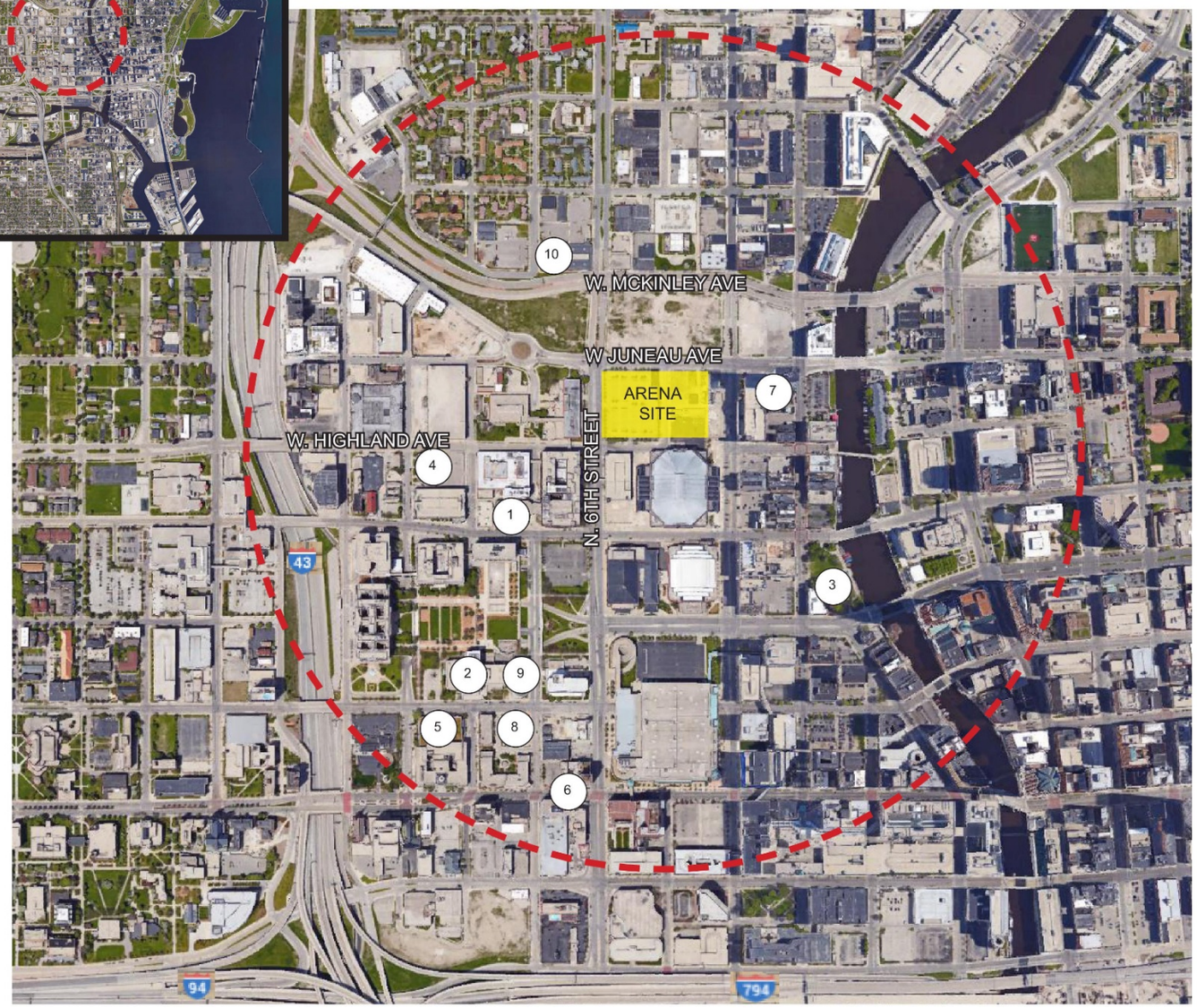
FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

3D VIEW - ARENA DISTRICT AERIAL

POPULOUS HNTB eua

SHEET
A1 - 2

VICINITY MAP



Milwaukee Arena

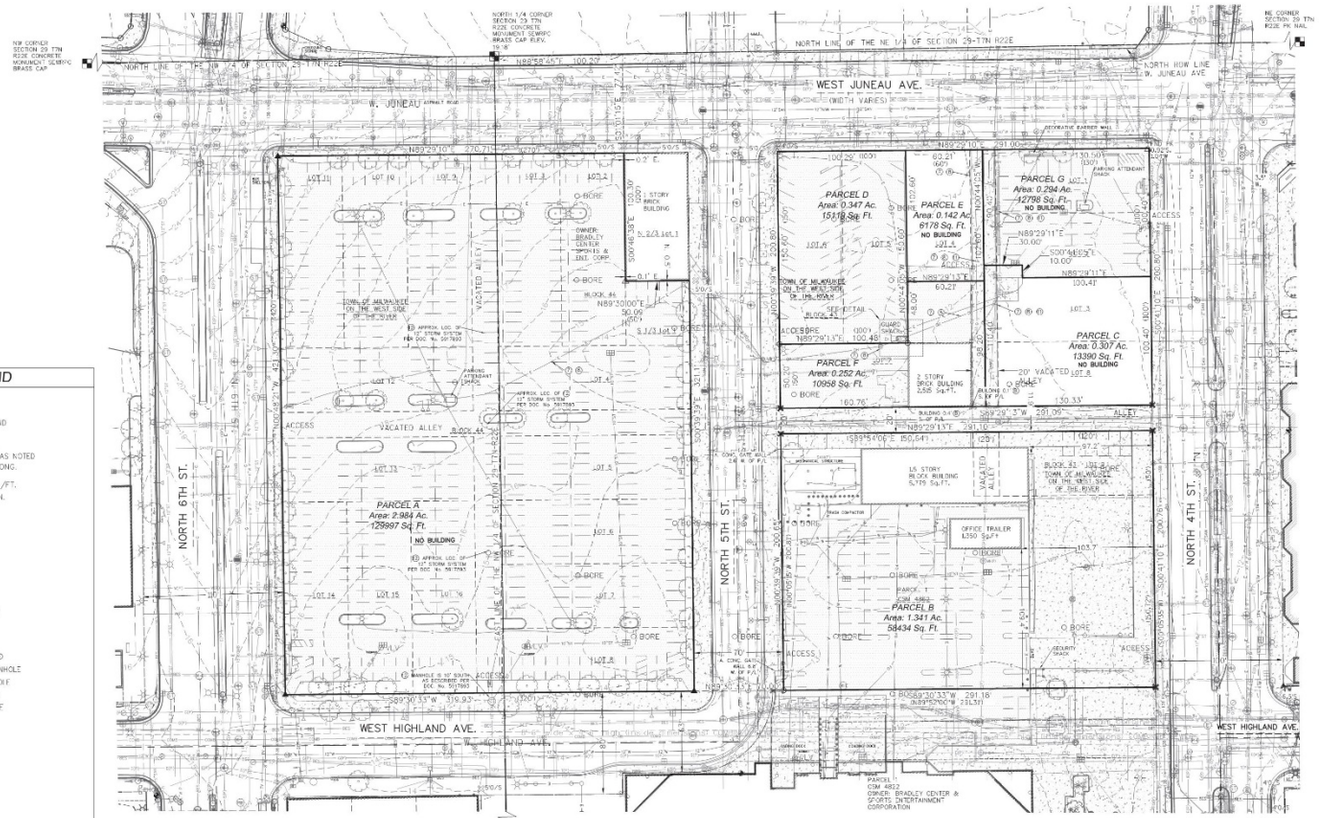
SS Credit 2 Development Density and Community Connectivity

1. **Bank -** US Bank
2. **Museum** - Milwaukee Public Museum
3. **Park -** Pere Marquette Park
4. **Place of Worship** - Trinity Lutheran Church
5. **Library** - Milwaukee Public Library
6. **Convenience Grocery** - Grand Avenue Market
7. **Restaurant** - Carson's Prime Steaks and BBQ Restaurant
8. **Fire Station** - Milwaukee Fire Department
9. **Theater** - Humphrey IMAX Dome Theater
10. **Fitness Center** - Blast! Fitness

Residential
Library Hill Apartments
Boston Lofts
The Grand Wisconsin

ALTA/ACSM LAND TITLE SURVEY

BEING A PART OF THE NW 1/4 OF THE NE 1/4, AND THE NE 1/4 OF THE NW 1/4, OF SECTION 29, TOWNSHIP 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.



LEGEND

- = BENCH MARK
- = CONTROL POINT
- = CHISELED MARK FOUND
- = CUT CROSS SET
- = FOUND 1" IRON PIPE OR MONUMENTATION AS NOTED
- = 1-1/4" O.D.x24" LONG. IRON PIPE SET, WEIGHING 1.68 LBS./FT.
- = SECTION CORNER MON.
- = FOUND MAG/PK
- = SET MAG NAIL
- (R.A.) = RECORDED AS
- = WATER VALVE
- = FIRE HYDRANT
- = SOIL BORING
- 970.99 = SPOT ELEVATION
- = BUSH, SHRUB
- = POLE/POST/BOLLARD
- = BOULDER
- = WINDMILL
- = PULLBOX
- = MANHOLE TYPE NOTED
- = SANITARY SEWER MANHOLE
- = STORM SEWER MANHOLE
- = TELEPHONE MANHOLE
- = ELECTRIC MANHOLE
- = WATER MANHOLE
- = UTILITY METER
- = SPRINKLER
- = GUY WIRE POLE
- = LIGHT POLE
- = PEDESTAL
- = POWER POLE
- = POWER/LIGHT POLE
- = TRAFFIC SIGNAL
- = CURB STOP
- = INLET
- = CURB INLET
- = GAS VALVE
- = LIGHT POLE WITH MAST
- = TREE (CONIFEROUS) DRIP LINE SCALABLE
- = TREE (DECIDUOUS) DRIP LINE SCALABLE
- = TREE STUMP
- 2.0 = CLEANOUT
- = FLAG POLE
- = WELL
- = MONITORING WELL
- = SIGN ON POST
- = PARKING METER
- = UTILITY CONTROL BOX
- = UNKNOWN UTILITY VALVE
- FL, EL = FIRST FLOOR ELEVATION
- = BUILDING OUTLINE
- = MINOR CONTOUR
- = MAJOR CONTOUR
- = FENCE
- = BEAM GUARD
- = CHAIN/LINK FENCE
- = WOODED AREA/SHRUB EDGE
- = WATER MAIN
- = STORM SEWER
- = SANITARY SEWER
- = COMBINED SEWER
- = NATURAL GAS MAIN
- = UNDERGROUND TELEPHONE
- = UNDERGROUND ELECTRIC
- = OVERHEAD UTILITY LINES
- = UNDERGROUND FIBER OPTIC
- = UNDERGROUND CABLE TV
- = BUREAU OF ELEC. SERV. O. MIL.
- = STEAM LINE
- = COMMUNICATION CONDUIT
- (P) IN LINESTYLE INDICATES, DRAWN PER EXISTING PLANS AND ARE APPROXIMATE
- = ASPHALT SURFACE
- = CONCRETE SURFACE
- = WETLANDS

VICINITY MAP

NOT TO SCALE

N 1/2 OF
SEC. 29, T. 7 N., R. 22 E.

HORIZONTAL DATUM IS THE WISCONSIN STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD27. NORTH IS REFERENCED TO THE N. LINE OF THE NE 1/4 OF SECTION 29-7-22 PUBLISHED BY SEWRPC AS N88°58'45"E.

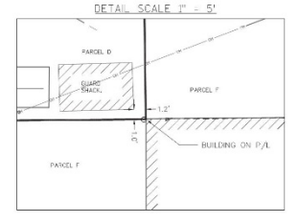
VERTICAL DATUM IS CITY OF MILWAUKEE DATUM. BENCHMARK IS THE MONUMENT FOR THE N 1/4 CORNER OF SECTION 29-7-22. ELEV = 19.18'

Note-
Underground Utilities Located by:

DIGGERS HOTLINE

Toll Free (800)242-8511
Milwaukee Area (414)259-1181
Hearing Impaired TDD (800)542-2289
www.DiggersHotline.com
REGISTER'S HOTLINE TICKETS:
20151721070, 20151721080, 20151721101, 20151721106, 20151721115, 20151721132, 20151721133, 20151721139, 20151721148, 20151721154, 20151721164, 20151721169, 20151721179, 20151721183, 20151721195, 20151721200, 20151721208, 20151721216, 20151721226, 20151721232, 20151721240, 20151721248, 20151721254, 20151721261, 20151721268, 20151721275, 20151721283, 20151721289, 20151721313, 20151721319, 20151721328, 20151721333

DETAIL SCALE 1" = 5'



LEGAL DESCRIPTION PROVIDED PER CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NUMBER CO-3166, Revision A, Effective date April 09, 2015

Parcel A:
The South 1/3 of Lot 1 and all of Lots 2,3,4,5,6,7,8,9,10,11,12,13,14,15 and 16, in Block 44, in Plat of the Town of Milwaukee on the West Side of the River, in the Northeast 1/4 and Northwest 1/4 of Section 29, Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, including all of the vacated East West alley and all of the vacated North-South alley ying within said Block 44.
Tax Key No.: 361-0481144-X
Address: 1133 N.5th Street

Parcel B:
Parcel 1 of Certified Survey Map No. 4862, being a Re-division of Lots 12,13 and 16, excepting the East 30.00 feet thereof, and Lots 10,11,14 and 15, together with all of the vacated North-South A ey lying to the West of said Lots 12,13 and 16, in Block 43 in the Plat of the Town of Milwaukee on the West Side of the River in the Northeast 1/4 of the Northeast 1/4 of Section 29, in Township 7 North, Range 22 East, in the City of Milwaukee, Milwaukee County, Wisconsin, recorded on January 14, 1987, as Document No. 5009700 & The West 120 feet of Lot 9 and all of the vacated north – south alley adjoining said Lot on the West in Block 43 in Original Plat of the Town of Milwaukee on the West Side of the River, in the Northeast 1/4 of Section 29, in Township 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin which is bounded and described as follows :

Commencing at the most easterly Northeast corner of Parcel 1 in the west right of way line of North Fourth Street in Certified Survey Map No.4862, a recorded certified survey map in said 1/4 Section; thence North 00 degrees 05 minutes 35 seconds West 50.24 feet along the west right of way line of North Fourth Street to a point in the South right of way line of the east – west alley in said Block 43; thence North 89 degrees 54 minutes 06 seconds West along said South right of way line of the east-west alley 140.65 feet to a point being the most northerly Northeast corner of said Parcel 1; thence South 00 degrees 05 minutes 25 seconds East 50.22 feet to a point; thence South 89 degrees 53 minutes 40 seconds East 140.65 feet to the point of commencement.
Tax Key No.: 392-2381-111-X
Address: 1111 N. 4th Street

Parcel C:
Lots 3 and 8 and the West 20 feet of the South 10 feet of Lot 2, in Block 43 and that part of the vacated alley adjacent to the West, in the original plat of the Town of Milwaukee on the West Side of the River, in the Northeast 1/4 of Section 29, Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin. EXCEPT the East 30 feet.
Tax Key No.: 361-0446-100-4
Address: 1137 N.4th Street

Parcel D:
Lots 5 and 6, in Block 43, in the Plat of the Town of Milwaukee on the West Side of the River, being a Subdivision of a part of the Northeast fractional 1/4 of Section 29, in Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin.
Tax Key No.: 361-0440-100-0
Address: 429-441W. Juneau Avenue

Parcel E:
Lot 4, except the South 48 feet thereof, in Block 43 and that part of the vacated alley adjacent to the East, in Plat of the Town of Milwaukee on the West Side of the River, being a part of the Northeast 1/4 of Section 29, in Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin.

Tax Key No:361-0447-3
Address: 423-427 W. Juneau Avenue

Parcel F:
Lot 7 and the South 48 feet of Lot 4, in Block 43 and that part of the vacated alley adjacent to the East, in Plat of the Town of Milwaukee on the West Side of the River, being a part of the Northeast 1/4 of Section 29, in Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin.
Tax Key No: 361-0452-100-7
Address: 1129 N. 5th Street

Parcel G:
The Westerly 120 feet of Lots 1and 2, except the West 20 feet of the South 10 feet of Lot 2, in Block 43 and that part of the vacated alley adjacent to the West, in the original plat of the town of Milwaukee on the West Side of the River, in the Northeast 1/4 of Section 29, Town 7 North, Range 22 East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin.
Tax Key No:361-0442-100-2
Address: 401 W. Juneau Avenue

TABLE A NOTES

1. Monuments placed or found. (As shown)
2. Addresses shown within Legal Description
3. Flood Zone classification per FEMA Panel No. 55079C0091E, effective date September 28, 2008 is Zone X. (Areas determined to be outside the 0.2% annual chance floodplain)
4. Gross land area: (As shown)
5. Vertical relief per contours shown on face of plat along with datum and bench marks.(As shown)

6(c). Current zoning as provided by insurer. (Not provided)
7(c). Exterior dimensions of all buildings at ground level. (As shown)
8. Substantial features as observed in the process of conducting the survey. (As shown)
11(b). Location of utilities existing on or serving the surveyed property as determined by: Observed evidence together with evidence from plans obtained from utility companies or provided by client, and markings by utility companies and other appropriate sources (with reference as to the source of information). (As shown)
13. Names of adjoining owners of platted lands according to current public records. (As shown)
15. Rectified orthophotography, photogrammetric mapping, laser scanning and other similar products, tools or technologies as the basis for the showing the location of certain features (excluding boundaries) where ground measurements are not otherwise necessary to locate those features to an appropriate and acceptable accuracy relative to a nearby boundary. (Terrestrial laser scanning was utilized to collect all above ground features.)
16. Observed evidence of earth moving work, building construction or building additions. (None observed)
19. Location of wetland areas as delineated by appropriate authorities. No wetlands located on subject site.

ENCROACHMENT NOTES

(A) Parcel B, concrete gate structure encroaches into 4th Street right of way. (as shown)

(B) Parcel F, building encroaches into alley right of way (as shown)

- Potential for unrecorded or prescriptive easements on all parcels concerning utilities as located and shown hereon.

NOTES

- All distances shown are ground measured distances.
- Grid to ground scale factor per SEWRPC is 0.99992542
- Current adjoiner name/s are derived from the Milwaukee County GIS site
- Digger's Hotline Tickets for the subject parcels were called in by the Client's representative.
- All Lines Utility Services, LLC marked private utilities on site, including parking lot electric lines and watermain and storm sewer on Parcel B specifically.
- Private utilities on subject parcels provided by All Lines Utility Services, LLC include: electric for lighting on Parcel A, electric for lighting on Parcels C, D, E, F, G, electric, water, storm, fiber optic on Parcel B.

SCHEDULE B-II NOTES: (1)(2)(3)(4)

This survey was prepared based on Chicago Title Insurance Company Commitment For Title Insurance, Commitment No. CO-3166, Revision A, effective date April 09, 2015 which lists the following applicable exceptions per Schedule B-II:

1. Not Survey Related.
2. Not Survey Related.
3. Not Survey Related.
4. Not Survey Related.
5. Not Survey Related.
6. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land. (as shown)
7. Easements or claims of easements not shown by the public records. (as shown)
8. Any claim of adverse possession or prescriptive easement. (as shown)
9. Not Survey Related.
10. Not Survey Related.
11. Easements, if any, of the public or any school district, utility, municipality or person, as provided in Section 66.1005(2) of the Statutes, for the continued use and right of entrance, maintenance, construction and repair of underground or overground structures, improvements or service in that portion of the subject premises which were formerly a part of the vacated alleys. (Primarily concerning Parcels C, G, E, F [as shown])
12. Obligations imposed in Quit Claim Deed executed by the City of Milwaukee to Ambrosio Chocolate Company, et al, dated March 31, 1986 and recorded May 23, 1986 on Reel 1885, Image 1379, as Document No. 5917853. (Parcel A. No surface evidence of storm sewer structures described except for southernmost manhole [as shown])
13. Rights, if any, with respect to the maintenance and use of sewers, utility pipes, cables or conduits which may be installed under the surface of the subject premises. (as shown, see utility qualifying note)
14. Rights of the City of Milwaukee and the Redevelopment Authority of the City of Milwaukee by reason of the fact that the subject premises are included in the Redevelopment Plan for Park East Redevelopment Project. A certified copy of said Redevelopment Plan with accompanying approval resolutions of the Common Council of the City of Milwaukee and the Redevelopment Authority of the City of Milwaukee was recorded on August 11, 2004 as Document No. 8641278, as amended by Redevelopment Plan Amendment No. recorded October 11, 2004, as Document No. 8681122, and Redevelopment Plan Amendment No. 2, recorded June 10, 2005, as Document No. 9026368, and Redevelopment Plan Amendment No. 3 recorded February 28, 2006, as Document No. 9131015, and Redevelopment Plan Amendment No. 4, recorded May 12, 2011, as Document No. 9995805, and Redevelopment Plan Amendment No. 5, recorded March 28, 2012, as Document No. 10098290.
15. Rights of the City of Milwaukee and the Redevelopment Authority of the City of Milwaukee by the reason of the fact that the subject premises are included in the Redevelopment Plan for the Beer Line Redevelopment Project "A" Area. A certified copy of said Redevelopment Plan with accompanying approval resolutions of the Common Council of the City of Milwaukee and the Redevelopment Authority of the City of Milwaukee was recorded on February 13, 1989, on Reel 1847, Image 804, as Document No.5888523, as amended by Amendment No.1 to the Redevelopment Plan for the North 5th Street-West State Street, recorded as Document No.5950377.
16. Covenant appearing on Certified Survey Map No.4862 as follows: In consideration of the approval of the Map by the Common Council and in accordance with Chapter 9 of the Milwaukee Code, the undersigned agrees that all utility lines to provide electric power and telephone service and cable television or communications systems lines or cables to all parcels in the Certified Survey Map shall be installed underground in easements provided therefore, where feasible. (Parcel B)
17. Agreement Not to Encumber recorded January 20, 2014 as Document No.10329059 (Parcel B, C and G)
18. (18-24 Not Survey Relatec)

ALTHOUGH DIGGERS' HOTLINE WAS NOTIFIED THIS SURVEY DOES NOT GUARANTEE THAT ALL UTILITIES HAVE BEEN LOCATED ON SITE. SOME OF THE UTILITIES MAY HAVE BEEN DRAWN IN PER PLAN, BASED ON MAPS RECEIVED FROM MEMBERS NOTIFIED. LACKING EXCAVATION THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION MAY BE NECESSARY.

SURVEYOR'S CERTIFICATE:

To:
1. BRADLEY CENTER SPORTS & ENTERTAINMENT CORPORATION
2. DEER DISTRICT LLC,
3. CHICAGO TITLE INSURANCE COMPANY
4. THE WISCONSIN CENTER DISTRICT
5. MICHAEL BEST & FRIEDRICH LLP
6. FIRST AMERICAN

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 8(a), 7(a), 8, 11(b), 13, 15, 16, and 19 of Table A thereof.
The field work was completed on June 2, 2015.

Date: this 15 day of JUNE 2015.

Matthew T. O'Rourke S-2771

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6868 Fax: 414.351.4117
www.kapuronginoers.com

PROJECT:
BCSEC
ALTA

LOCATION:
MILWAUKEE, WISCONSIN

CLIENT:
BRADLEY CENTER SPORTS & ENTERTAINMENT CORPORATION

RELEASE:
FINAL

REVISIONS:

#	DATE	DESCRIPTION
1	12-4-2015	REV. CERT. PARTIES
2	12-4-2015	UPDATE UTIL PER PLAN

NORTH ARROW:

SCALE: 1" = 40'
0 40 80

SEAL:
WISCONSIN MATTHEW T. O'ROURKE S-2771 HARTFORD, WI LAND SURVEYOR
we listen. we innovate. we turn your vision into reality.

SHEET:
ALTA/ACSM LAND TITLE SURVEY

DESIGNED BY:	MO
DRAWN BY:	RK
CHECKED BY:	EG
APPROVED BY:	MO
PROJECT NUMBER:	15.0200.01

SHEET NUMBER:
1

FILENAME: S:\Milw_Co\MilwCity\Priv\150200 - MKE Arena\Survey\DWG\150200_ALTA_ARENA_SITE.dwg

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MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

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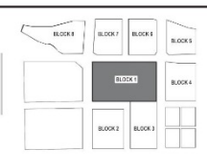


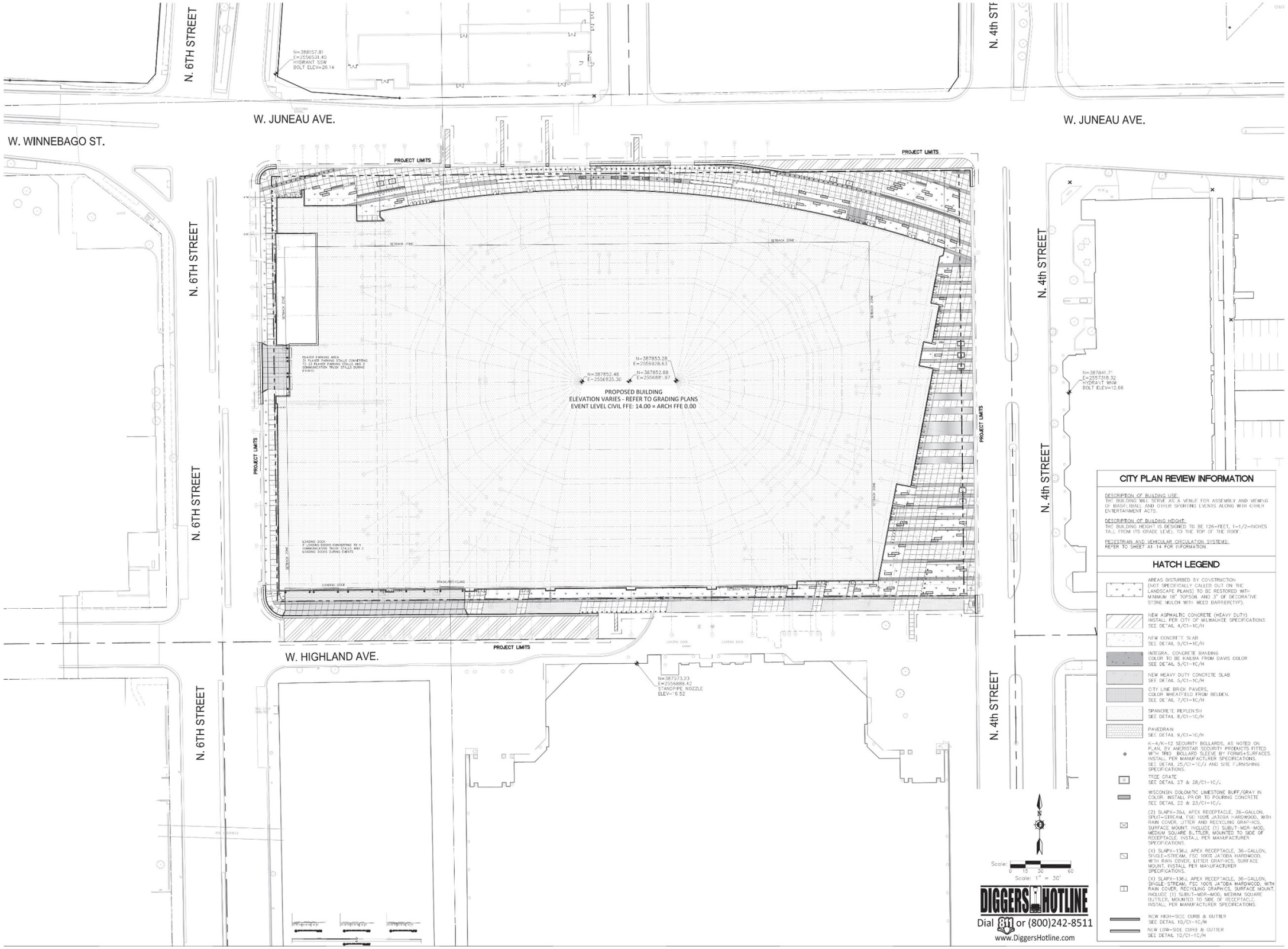
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

ALTA SURVEY

POPULOUS HNTB eua

SHEET
A1 - 4



CITY PLAN REVIEW INFORMATION

DESCRIPTION OF BUILDING USE:
THE BUILDING WILL SERVE AS A VENUE FOR ASSEMBLY AND VIEWING OF BASKETBALL AND OTHER SPORTING EVENTS ALONG WITH OTHER ENTERTAINMENT ACTS.

DESCRIPTION OF BUILDING HEIGHT:
THE BUILDING HEIGHT IS DESIGNED TO BE 126-FEET, 1-1/2-INCHES TALL FROM ITS GRADE LEVEL TO THE TOP OF THE ROOF.

PEDESTRIAN AND VEHICULAR CIRCULATION SYSTEMS:
REFER TO SHEET A1-14 FOR INFORMATION.

HATCH LEGEND

AREAS DISTURBED BY CONSTRUCTION (NOT SPECIFICALLY CALLED OUT ON THE LANDSCAPE PLANS) TO BE RESTORED WITH MINIMUM 18" TOPSOIL AND 3" OF DECORATIVE STONE MULCH WITH WEED BARRIER(TYP).

NEW ASPHALTIC CONCRETE (HEAVY DUTY)
INSTALL PER CITY OF MILWAUKEE SPECIFICATIONS
SEE DETAIL 4/C1-1C/H

NEW CONCRETE SLAB
SEE DETAIL 5/C1-1C/H

INTEGRAL CONCRETE BANDING
COLOR TO BE KAILUA FROM DAVIS COLOR
SEE DETAIL 5/C1-1C/H

NEW HEAVY DUTY CONCRETE SLAB
SEE DETAIL 5/C1-1C/H

CITY LINE BRICK PAVERS,
COLOR WHEATFIELD FROM BELDEN.
SEE DETAIL 7/C1-1C/H

SPANCRETE REPLENISH
SEE DETAIL 8/C1-1C/H

PAVEDRAIN
SEE DETAIL 9/C1-1C/H

K-4/K-12 SECURITY BOLLARDS, AS NOTED ON PLAN, BY AMERISTAR SECURITY PRODUCTS FITTED WITH TRIO BOLLARD SLEEVE BY FORMS+SURFACES. INSTALL PER MANUFACTURER SPECIFICATIONS.
SEE DETAIL 25/C1-1C/J AND SITE FURNISHING SPECIFICATIONS.

TREE GRATE
SEE DETAIL 27 & 28/C1-1C/J.

WISCONSIN DOLOMITIC LIMESTONE BUFF/GRAY IN COLOR. INSTALL PRIOR TO POURING CONCRETE
SEE DETAIL 22 & 23/C1-1C/J.

(2) SLAPX-35J, APEX RECEPTACLE, 36-GALLON, SPLIT-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, LITTER AND RECYCLING GRAPHICS, SURFACE MOUNT. INCLUDE (1) SUBLT-MDR-MOD, MEDIUM SQUARE BUTTLER, MOUNTED TO SIDE OF RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS.

(X) SLAPX-13GJ, APEX RECEPTACLE, 36-GALLON, SINGLE-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, LITTER GRAPHICS, SURFACE MOUNT, INSTALL PER MANUFACTURER SPECIFICATIONS.

(X) SLAPX-13GJ, APEX RECEPTACLE, 36-GALLON, SINGLE-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, RECYCLING GRAPHICS, SURFACE MOUNT. INCLUDE (1) SUBLT-MDR-MOD, MEDIUM SQUARE BUTTLER, MOUNTED TO SIDE OF RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS.

NEW HIGH-SIDE CURB & GUTTER
SEE DETAIL 10/C1-1C/H

NEW LOW-SIDE CURB & GUTTER
SEE DETAIL 10/C1-1C/H

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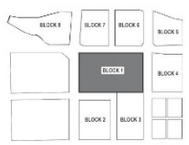


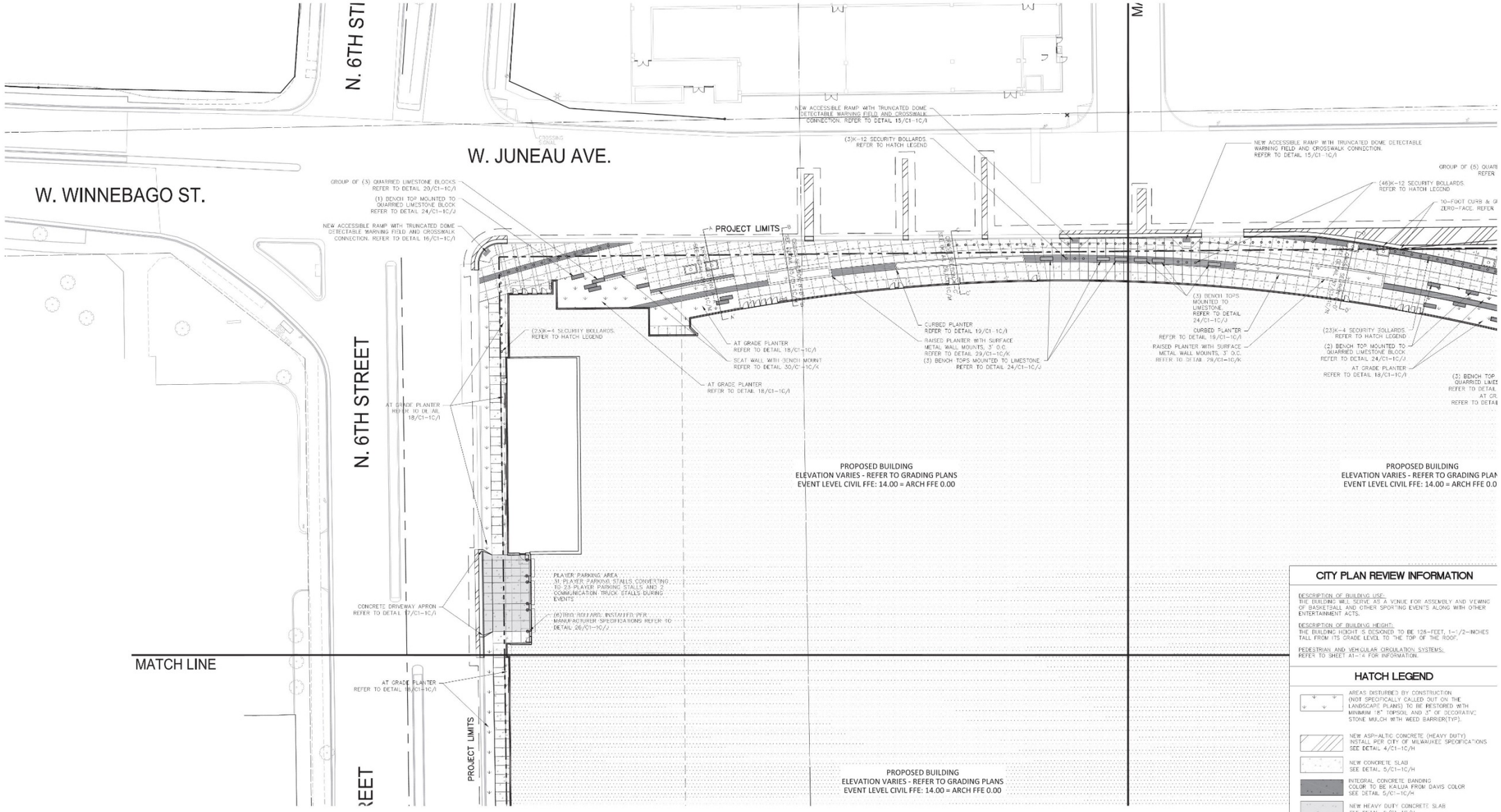
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

OVERALL SITE PLAN

POPULOUS HNTB eua

SHEET
A1 - 5



CITY PLAN REVIEW INFORMATION

DESCRIPTION OF BUILDING USE:
THE BUILDING WILL SERVE AS A VENUE FOR ASSEMBLY AND VIEWING OF BASKETBALL AND OTHER SPORTING EVENTS ALONG WITH OTHER ENTERTAINMENT ACTS.

DESCRIPTION OF BUILDING HEIGHT:
THE BUILDING HOIGHT IS DESIGNED TO BE 126-FEET, 1-1/2-INCHES TALL FROM ITS GRADE LEVEL TO THE TOP OF THE ROOF.

PEDESTRIAN AND VEHICULAR CIRCULATION SYSTEMS:
REFER TO SHEET A1-1.4 FOR INFORMATION.

HATCH LEGEND

AREAS DISTURBED BY CONSTRUCTION (NOT SPECIFICALLY CALLED OUT ON THE LANDSCAPE PLANS) TO BE RESTORED WITH MINIMUM 18" TOPSOIL AND 3" OF DECORATIVE STONE MULCH WITH WEED BARRIER(TYP).

NEW ASPHALTIC CONCRETE (HEAVY DUTY) INSTALL PER CITY OF MILWAUKEE SPECIFICATIONS SEE DETAIL 4/C1-1C/H

NEW CONCRETE SLAB SEE DETAIL 5/C1-1C/H

INTEGRAL CONCRETE BANDING COLOR TO BE KAILUA FROM DAVIS COLOR SEE DETAIL 5/C1-1C/H

NEW HEAVY DUTY CONCRETE SLAB SEE DETAIL 5/C1-1C/H

CITY LINE BRICK PAVERS, COLOR WHEATFIELD FROM BELDEN. SEE DETAIL 7/C1-1C/H

SPANCRETE REPLENISH SEE DETAIL 8/C1-1C/H

PAVEDRAIN SEE DETAIL 9/C1-1C/H

K-4/K-12 SECURITY BOLLARDS, AS NOTED ON PLAN, BY AMERISTAR SECURITY PRODUCTS FITTED WITH TRIO BOLLARD SLEEVE BY FORMS+SURFACES. INSTALL PER MANUFACTURER SPECIFICATIONS. SEE DETAIL 25/C1-1C/J AND SITE FURNISHING SPECIFICATIONS

TREE GRATE SEE DETAIL 27 & 28/C1-1C/J

WISCONSIN DOLOMITIC LIMESTONE BUFF/GRAY IN COLOR. INSTALL PRIOR TO POURING CONCRETE SEE DETAIL 22 & 23/C1-1C/J

(2) SLAPX-36J, APEX RECEPTACLE, 36-GALLON, SPLIT-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, LITTER AND RECYCLING GRAPHICS, SURFACE MOUNT. INCLUDE (1) SUBUT-MDR-MOD, MEDIUM SQUARE BUTTLER, MOUNTED TO SIDE OF RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS.

(X) SLAPX-136J, APEX RECEPTACLE, 36-GALLON, SINGLE-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, LITTER GRAPHICS, SURFACE MOUNT. INSTALL PER MANUFACTURER SPECIFICATIONS.

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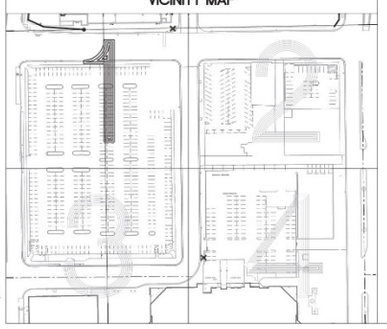
NEW HIGH-SIDE CURB & GUTTER SEE DETAIL 10/C1-1C/H

NEW LOW-SIDE CURB & GUTTER SEE DETAIL 10/C1-1C/H

VICINITY MAP



Scale: 0 10 20 40
Scale: 1" = 20'

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www.DiggersHotline.com

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
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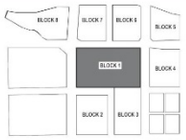


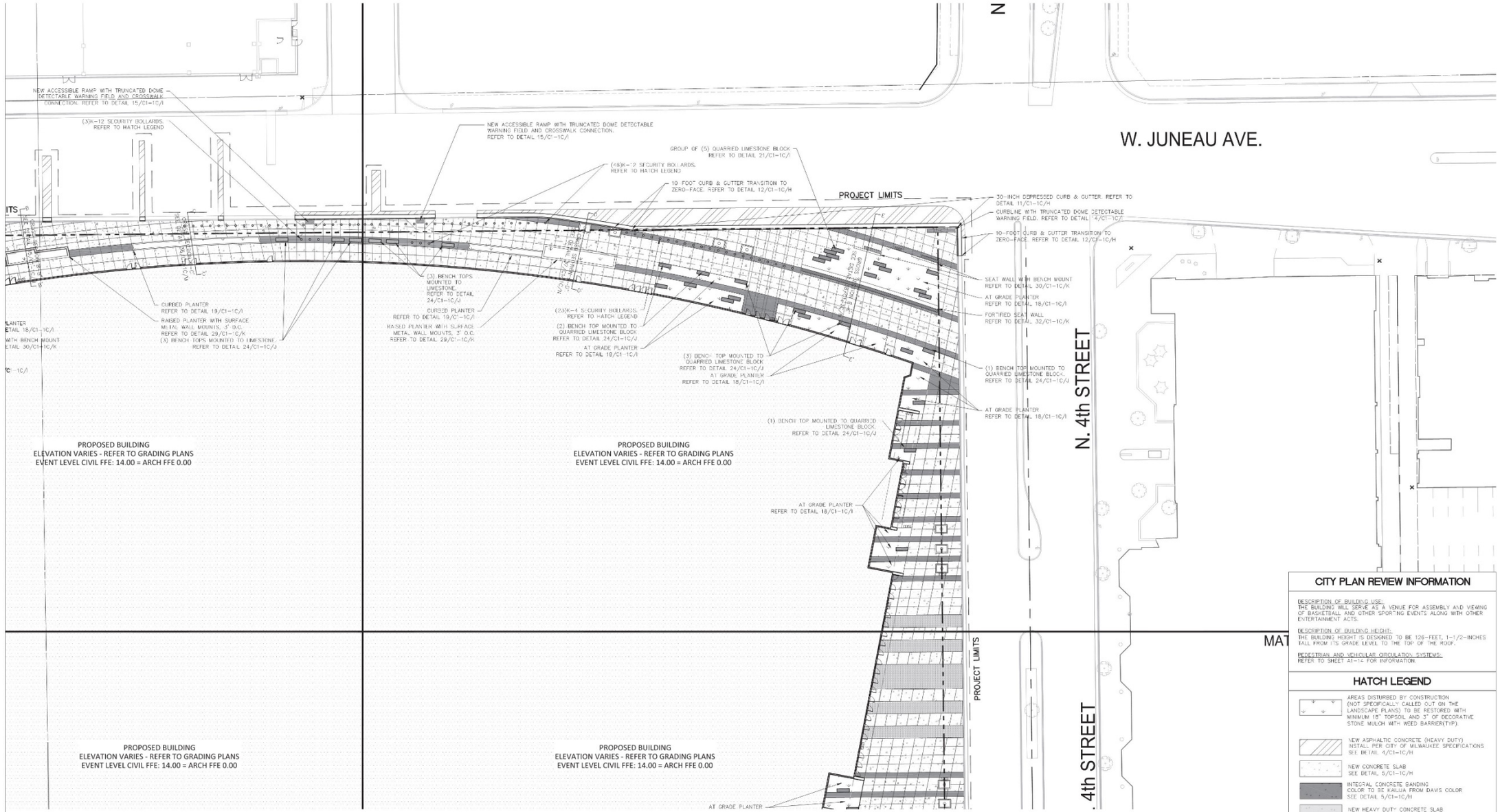
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

ENLARGED SITE PLAN - 6TH & JUNEAU

POPULOUS HNTB eua

SHEET A1 - 6



CITY PLAN REVIEW INFORMATION

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PEDESTRIAN AND VEHICULAR CIRCULATION SYSTEMS:
REFER TO SHEET A1-14 FOR INFORMATION.

HATCH LEGEND

- AREAS DISTURBED BY CONSTRUCTION (NOT SPECIFICALLY CALLED OUT ON THE LANDSCAPE PLANS) TO BE RESTORED WITH MINIMUM 18" TOPSOIL AND 3" OF DECORATIVE STONE MULCH WITH WEED BARRIER(TYP).
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- NEW CONCRETE SLAB SEE DETAIL 5/C1-1C/H
- INTEGRAL CONCRETE BANDING COLOR TO BE KAHUA FROM DAVIS COLOR SEE DETAIL 5/C1-1C/H
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- CITY LINE BRICK PAVERS, COLOR WHEATFIELD FROM BELDEN. SEE DETAIL 7/C1-1C/H
- SPANCRETE REPLENISH SEE DETAIL 8/C1-1C/-
- PAVEDRAIN SEE DETAIL 9/C1-1C/-
- K-4/K-12 SECURITY BOLLARDS, AS NOTED ON PLAN, BY AMERISTAR SECURITY PRODUCTS FITTED WITH TRIO BOLLARD SLEEVE BY FORMS+SURFACES. INSTALL PER MANUFACTURER SPECIFICATIONS. SEE DETAIL 25/C1-1C/J AND SITE FURNISHING SPECIFICATIONS.
- TREE GRATE SEE DETAIL 27 & 28/C1-1C/J
- WISCONSIN DOLOMITIC LIMESTONE BUFF/GRAY IN COLOR. INSTALL PRIOR TO POURING CONCRETE SEE DETAIL 22 & 23/C1-1C/J
- (2) SLAPX-36J, APEX RECEPTACLE, 36-GALLON, SPLIT-STREAM, FSC 100% JATOBA HARDWOOD, WIT-RAIN COVER, LITTER AND RECYCLING GRAPHICS, SURFACE MOUNT. INCLUDE (1) SUBUT-MOR-MOD, MEDIUM SQUARE BUTTLER, MOUNTED TO SIDE OF RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS.
- (X) SLAPX-136J, APEX RECEPTACLE, 36-GALLON, SINGLE-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, LITTER GRAPHICS, SURFACE MOUNT. INSTALL PER MANUFACTURER SPECIFICATIONS.
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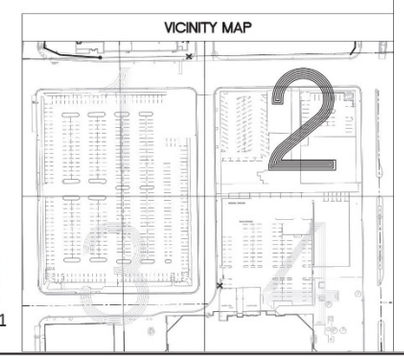
- NEW HIGH-SIDE CURB & GUTTER SEE DETAIL 10/C1-1C/H
- NEW LOW-SIDE CURB & GUTTER SEE DETAIL 10/C1-1C/H

VICINITY MAP



Scale: 1" = 20'

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KEY PLAN

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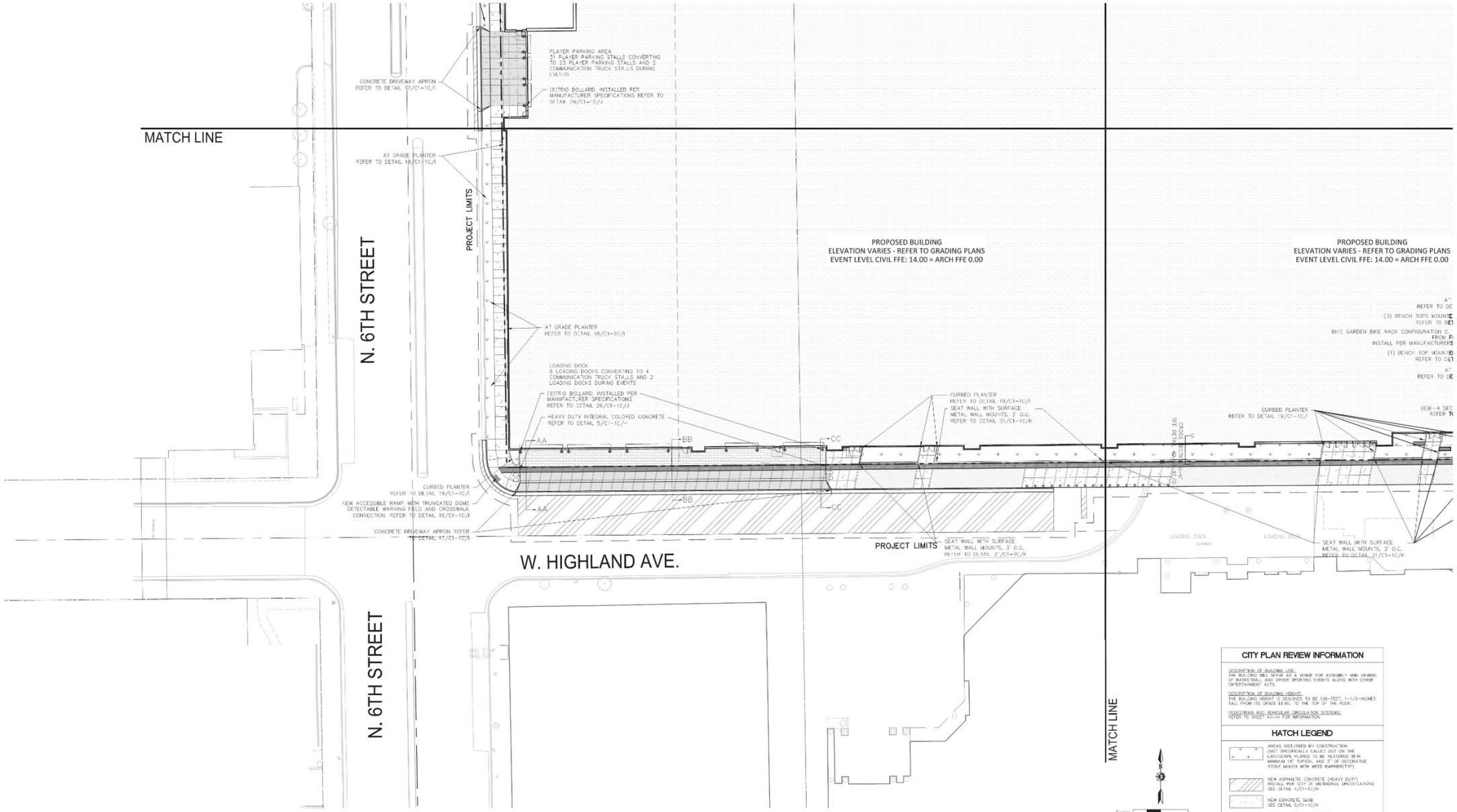
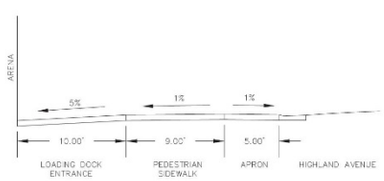
ISSUE DATE: 05.09.2016

ENLARGED SITE PLAN - 4TH & JUNEAU

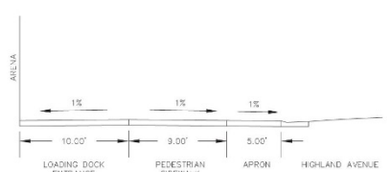
POPULOUS HNTB eua

SHEET A1 - 7





AA HIGHLAND SERVICE ENTRANCE CROSS SECTION WEST END
N.T.S.



BB HIGHLAND SERVICE ENTRANCE CROSS SECTION MIDDLE
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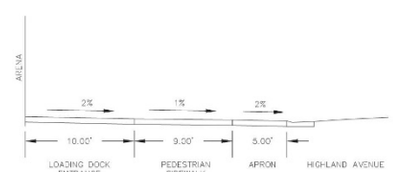

CC HIGHLAND SERVICE ENTRANCE CROSS SECTION EAST END
N.T.S.

DD HIGHLAND SERVICE ENTRANCE CROSS SECTION LONGITUDINAL
N.T.S.

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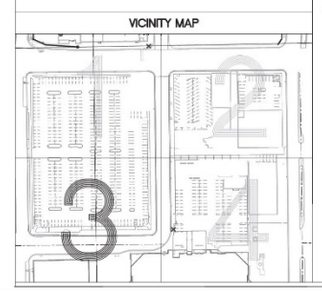
VICINITY MAP



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- PAVEDRAIN SEE DETAIL 9/C1-1C/H
- K-4/K-12 SECURITY BOLLARDS, AS NOTED ON PLAN, BY AMERISTAR SECURITY PRODUCTS FITTED WITH TRIO BOLLARD SLEEVE W/ FORMS+SURFACE. INSTALL PER MANUFACTURER SPECIFICATIONS. SEE DETAIL 23/C1-1C/J AND SITE FURNISHING SPECIFICATIONS.
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- (X) SLAPX-36J, APEX RECEPTACLE, 36-GALLON, SINGLE-STREAM, FSC 100% JATOBA HARDWOOD, WITH RAIN COVER, LITTER GRAPHICS, SURFACE MOUNT. INSTALL PER MANUFACTURER SPECIFICATIONS.
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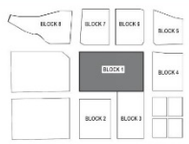

KEY PLAN

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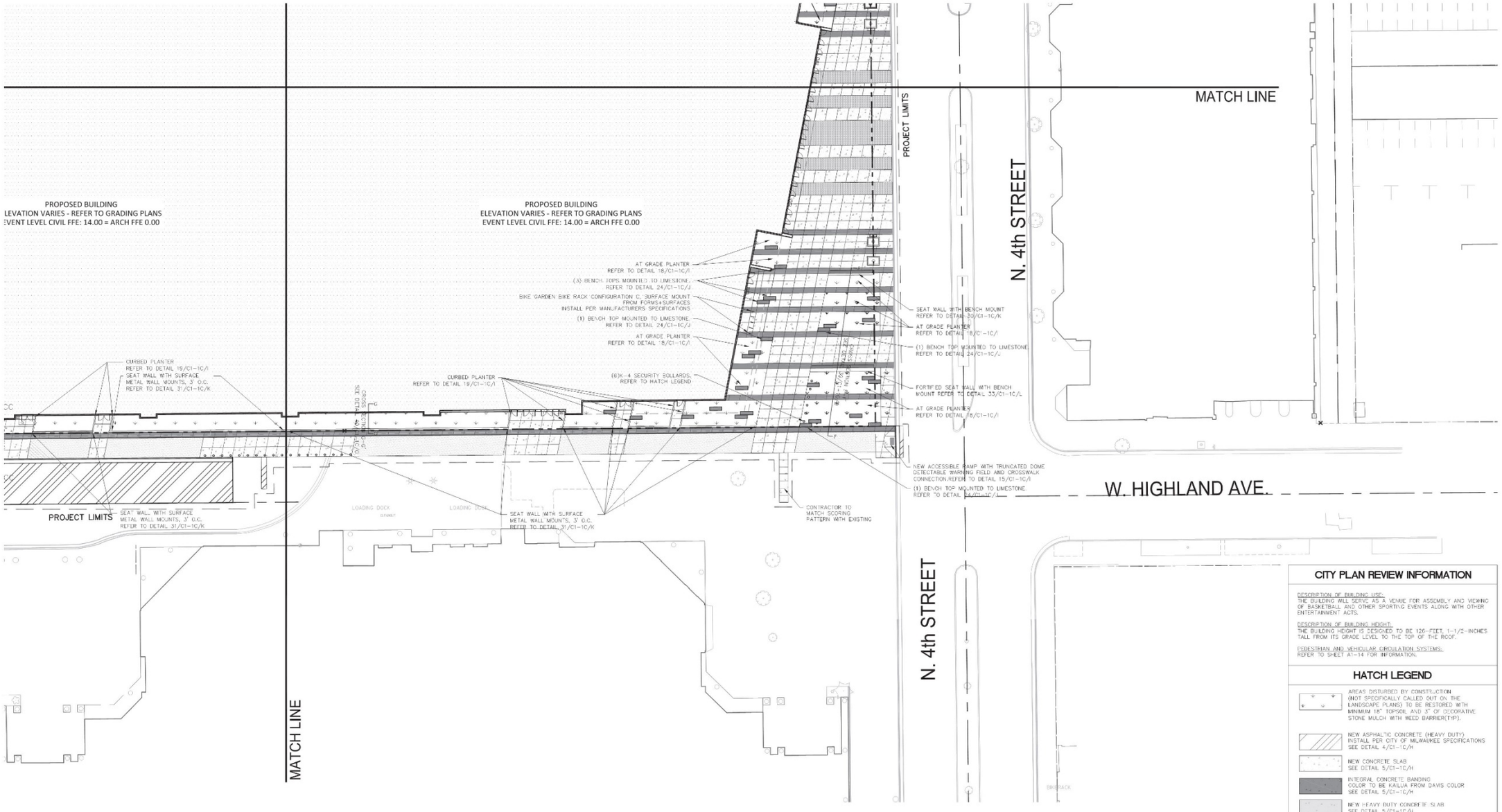
ENLARGED SITE PLAN - 6TH & HIGHLAND

POPULOUS HNTB eua

SHEET A1 - 8



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NEW ASPHALTIC CONCRETE (HEAVY DUTY)
INSTALL PER CITY OF MILWAUKEE SPECIFICATIONS
SEE DETAIL 4/C1-1C/H

NEW CONCRETE SLAB
SEE DETAIL 5/C1-1C/H

INTEGRAL CONCRETE BANDING
COLOR TO BE KALUA FROM DAVIS COLOR
SEE DETAIL 5/C1-1C/H

NEW HEAVY DUTY CONCRETE SLAB
SEE DETAIL 5/C1-1C/H

CITY LINE BRICK PAVERS,
COLOR WHEATFIELD FROM BELDEN.
SEE DETAIL 7/C1-1C/H

SPANCRETE REPLENISH
SEE DETAIL 8/C1-1C/H

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SEE DETAIL 9/C1-1C/H

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TREE GRATE
SEE DETAIL 27 & 28/C1-1C/J

WISCONSIN DOLOMITIC LIMESTONE BUFF/GRAY IN COLOR. INSTALL PRIOR TO POURING CONCRETE
SEE DETAIL 22 & 23/C1-1C/J

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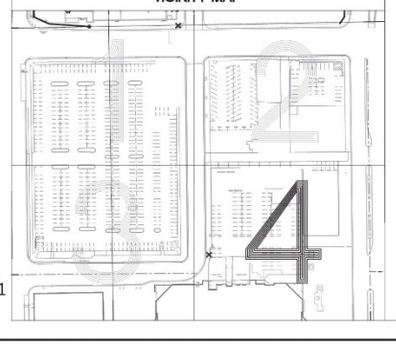
NEW HIGH-SIDE CURB & GUTTER
SEE DETAIL 10/C1-1C/H

NEW LOW-SIDE CURB & GUTTER
SEE DETAIL 10/C1-1C/H

VICINITY MAP



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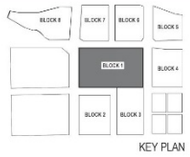

KEY PLAN

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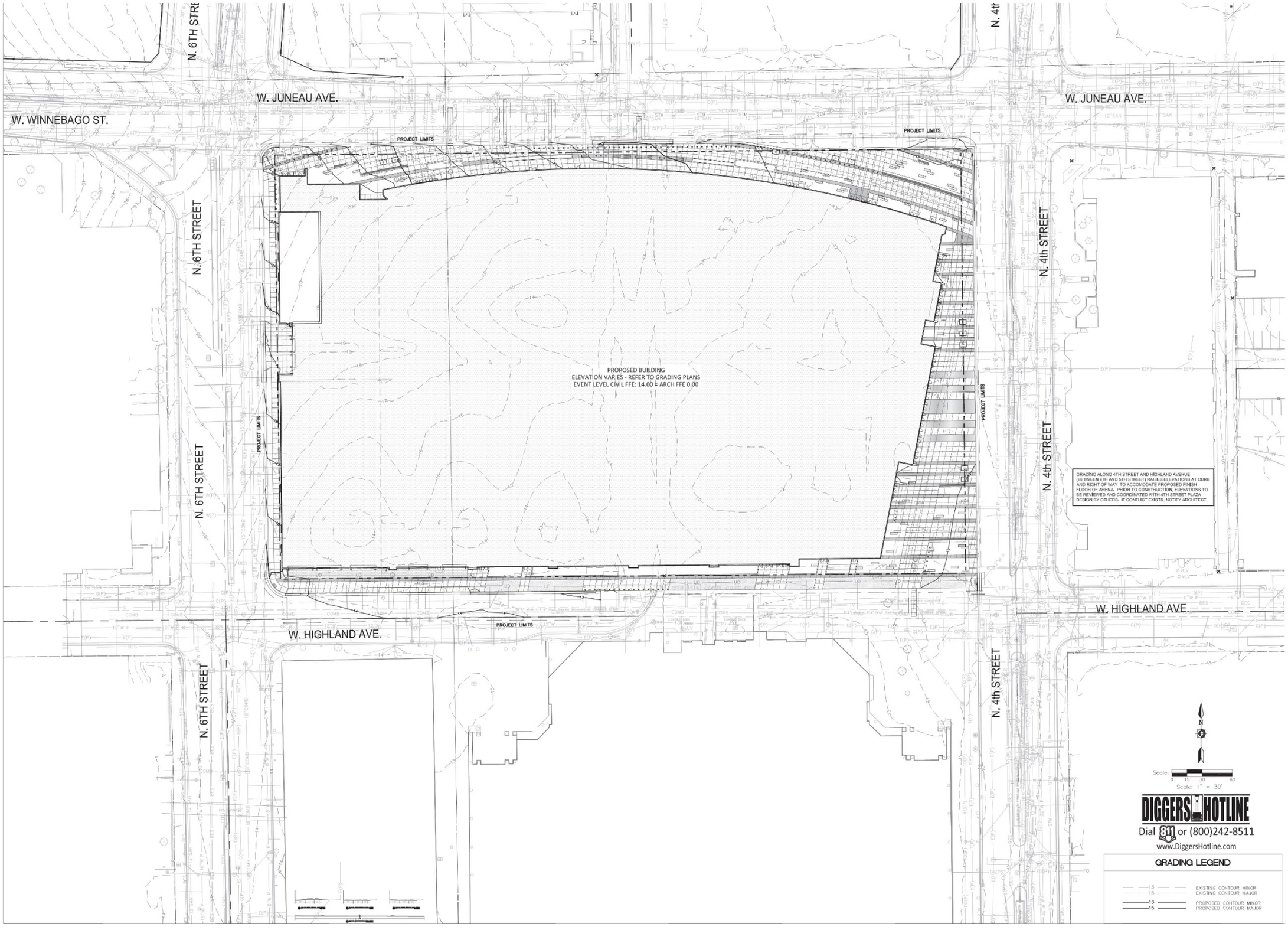
ENLARGED SITE PLAN - 4TH & HIGHLAND

POPULOUS HNTB eua

SHEET A1 - 9



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KEY PLAN

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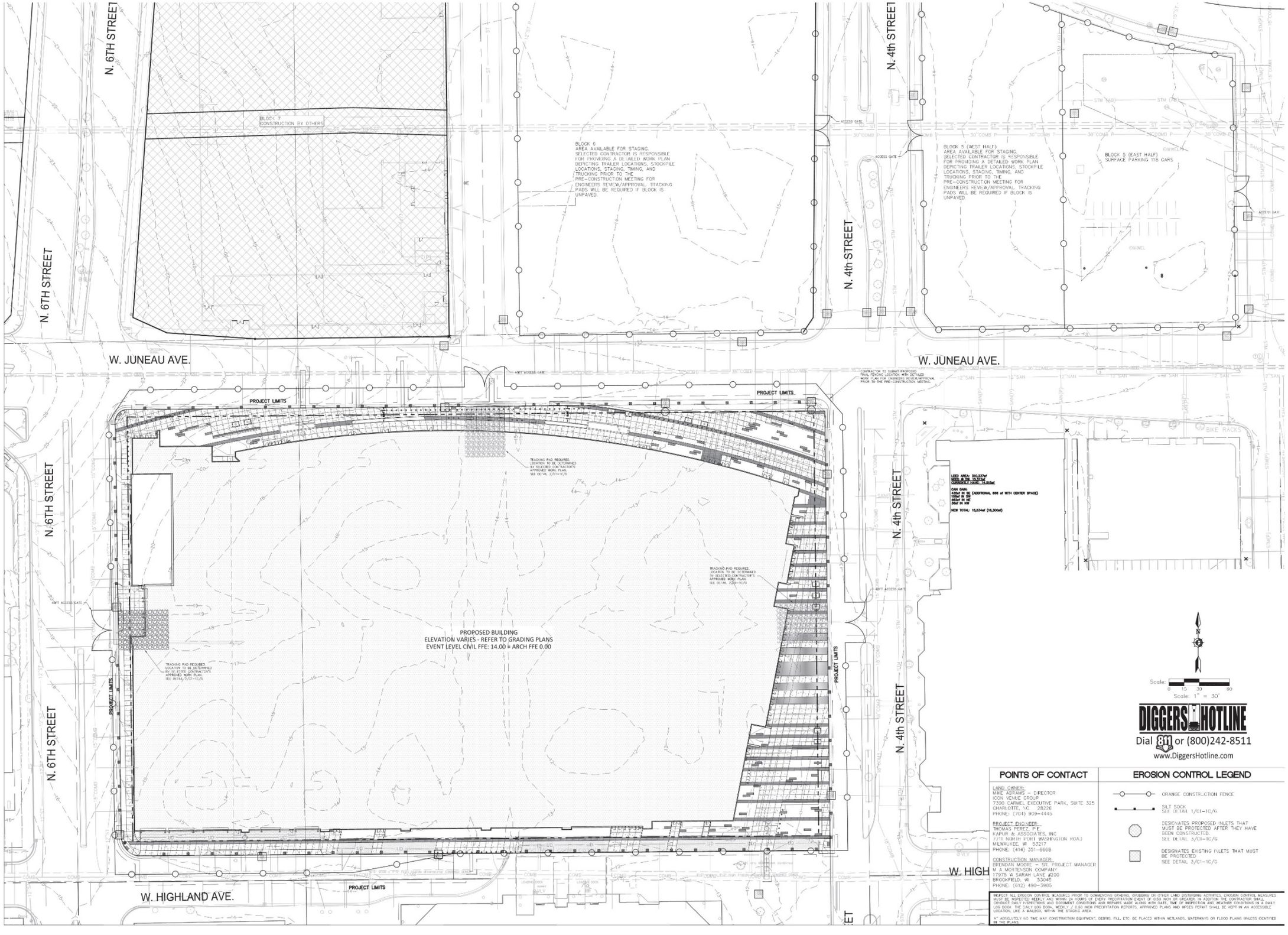
OVERALL GRADING PLAN

POPULOUS HNTB eua

SHEET
A1 - 10



POINTS OF CONTACT

LAND OWNER:
MIKE ABRAMS – DIRECTOR
BOON VENUE GROUP
7300 CARMEL EXECUTIVE PARK, SUITE 325
CHARLOTTE, NC 28226
PHONE: (704) 909-4445

PROJECT ENGINEER:
THOMAS PEREZ, P.E.
KAPUR & ASSOCIATES, INC
7711 NORTH PORT WASHINGTON ROAD
MILWAUKEE, WI 53217
PHONE: (414) 351-6668

CONSTRUCTION MANAGER:
BRENDAN MOORE – SR. PROJECT MANAGER
M & MORTENSON COMPANY
17975 W SARAH LANE #200
BROOKFIELD, WI 53045
PHONE: (612) 490-3905

EROSION CONTROL LEGEND

- ORANGE CONSTRUCTION FENCE
- SILT SOCK
  SEE DETAIL 1/C1-1C/G
- DESIGNATES PROPOSED INLETS THAT MUST BE PROTECTED AFTER THEY HAVE BEEN CONSTRUCTED.
  SEE DETAIL 3/C1-1C/G
- DESIGNATES EXISTING INLETS THAT MUST BE PROTECTED
  SEE DETAIL 3/C1-1C/G

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS AND NPDES PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

A" ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOOD PLAINS UNLESS IDENTIFIED IN THE PLANS.

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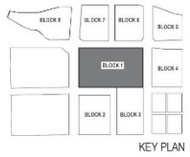


KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

OVERALL SITE EROSION CONTROL PLAN

POPULOUS HNTB eua

SHEET
A1 - 11

EROSION CONTROL MEASURES

1. CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN AND PER THE LATEST WDNR TECHNICAL STANDARDS. TECHNICAL STANDARDS MAY BE VIEWED ONLINE AT:
   http://dnr.wi.gov/runoff/stormwater/techstds.htm
2. INLETS AND CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE INVASIVE IN NATURE CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER WDNR TECHNICAL STANDARD 1060 AS FOLLOWS:
   A. ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION. GEOTEXTILE FABRIC, TYPE FF IN THE CURRENT EDITION OF THE WDOT PRODUCT ACCEPTABILITY LIST. TO OBTAIN THE PAL, PLEASE REFER TO THIS WEBSITE:
   http://www.dot.wisconsin.gov/business/engineers/pal.htm
   B. INLET PROTECTION SHALL BE AT A MINIMUM INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF ½ INCH OR GREATER DURING A 24-HOUR PERIOD.
   C. PLACEMENT OF SPOIL MATERIAL, DEBRIS, SOILS, ETC. ON TOP OF INLETS/CATCH BASINS, EVEN IF TEMPORARY, IS STRICTLY DISCOURAGED AND PROHIBITED.
   D. SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO ½ THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.
   E. DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLETS/CATCH BASINS AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE D ABOVE.
   F. INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ADEQUATELY STABILIZED, UNLESS AS OTHERWISE NOTIFIED BY THE WDNR.
3. A TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO REDUCE OFF-SITE SEDIMENTATION BY ELIMINATING THE TRACKING OF SEDIMENT FROM THE SITE PER WDNR TECHNICAL STANDARD 1057 AS FOLLOWS:
   A. A WISCOT TYPE R GEOTEXTILE FABRIC SHALL BE USED TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
   B. AGGREGATE USED FOR TRACKING PADS SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE. ALL MATERIAL TO BE RETAINED BY 3 INCH SIEVE.
   C. THE AGGREGATE SHALL BE PLACED IN A LAYER ON TOP OF THE TYPE R GEOTEXTILE FABRIC AT LEAST 12 INCHES THICK.
   D. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT AND BE AT LEAST 50 FEET LONG.
   E. VEHICLES TRAVELING ACROSS THE TRACKING PAD SHALL MAINTAIN A SLOW CONSTANT SPEED.
   F. ANY SEDIMENT OR MUDDY ACCUMULATION ONTO LOCAL ROADWAYS SHALL BE REMOVED BY STREET CLEANING, NOT FLUSHING BEFORE THE END OF EACH WORKING DAY.
   G. THE TRACKING PAD SHALL, AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF ½ INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD.
   H. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
   I. A MINIMUM 12-INCH THICK PAD SHALL BE MAINTAINED.
4. SEEDING AND MULCHING TECHNIQUES SHALL BE USED ON AREAS OF EXPOSED SOIL WHERE THE ESTABLISHMENT OF VEGETATION IS DESIRED. TEMPORARY SEEDING APPLIES TO DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND-DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 CALENDAR DAYS, REQUIRING VEGETATIVE COVER FOR LESS THAN ONE YEAR. SEED AND MULCH SHALL BE UTILIZED THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH TEMPORARY VEGETATION TO HELP REDUCE EROSION PER WDNR TECHNICAL STANDARDS 1059 AND 1058 RESPECTIVELY AS FOLLOWS:
   A. TEMPORARY SEEDING REQUIRES A SEEDBED OF LOOSE SOIL TO A MINIMUM DEPTH OF 2 INCHES.
   B. FERTILIZER APPLICATION IS NOT GENERALLY REQUIRED FOR TEMPORARY SEEDING. HOWEVER, ANY APPLICATION OF FERTILIZER OR LIME SHALL BE BASED ON SOIL TESTING.
   C. THE SOIL SHALL HAVE A PH RANGE OF 5.5 TO 8.0.
   D. ALL SEED SHALL CONFORM TO THE REQUIREMENTS OF THE WISCONSIN STATE STATUTES AND OF THE ADMINISTRATIVE CODE CHAPTER ATCP 20.01 REGARDING NOXIOUS WEED SEED CONTENT AND LABELING.
   E. SEED SHALL NOT BE USED LATER THAN ONE YEAR AFTER THE TEST DATE ON THE LABEL.
   F. IN THE SUMMER-SPRING, CONTRACTOR SHALL USE OATS APPLIED AT 131 LBS/ACRE FOR TEMPORARY SEEDING PURPOSES. IN THE FALL THE CONTRACTOR SHALL USE ANNUAL RYEGRASS APPLIED AT 80 LBS/ACRE OR WINTER WHEAT APPLIED AT 131 LBS/ACRE. THE CONTRACTOR SHALL USE STRAW MULCH APPLIED AT 1.5 TONS/ACRE. DORMANT SEED SHALL BE USED WHEN SOIL TEMPERATURE IS CONSISTENTLY BELOW 53 DEGREES FAHRENHEIT (TYPICALLY NOV. 1 UNTIL SNOW COVER ANNUALLY). NEVER PLACE SEED ON TOP OF SNOW. IF COVER IS NEEDED AFTER SNOW FALL, CONTRACTOR MAY CHOOSE TO USE A DRY, NONTOXIC TYPE D SOIL STABILIZER PER MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY THE WDNR.
   G. SEEDING SHALL NOT TAKE PLACE WHEN THE SOIL IS TOO WET.
   H. CONTRACTOR MAY CONSIDER WATERING TO HELP ESTABLISH THE SEED. WATER APPLICATION RATES SHALL BE CONTROLLED TO HELP PREVENT RUN-OFF AND EROSION.
   I. DURING CONSTRUCTION, AREAS THAT HAVE BEEN SEEDED AND MULCHED SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES ½ INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD. INSPECT WEEKLY DURING THE GROWING SEASON UNTIL VEGETATION IS DENSELY ESTABLISHED OR THE SOD IS LAID. REPAIR AND RESEED AREAS THAT HAVE EROSION DAMAGE AS NECESSARY.
   J. CONTRACTOR IS TO LIMIT VEHICLE TRAFFIC AND OTHER FORMS OF COMPACTION IN AREAS THAT ARE SEEDED AS MUCH AS POSSIBLE. RE-SEED DRIVEN OVER AREAS AS NEEDED.
   K. MULCH SHOULD BE PLACED WITHIN 24 HOURS OF SEEDING.
   L. MULCHING OPERATIONS SHALL NOT TAKE PLACE DURING PERIODS OF EXCESSIVELY HIGH WINDS THAT WOULD PRECLUDE THE PROPER PLACEMENT OF MULCH.
   M. MULCH THAT IS DISPLACED SHALL BE REAPPLIED AND PROPERLY ANCHORED. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION TO SITE CONDITIONS.
   N. WHEN CHANNEL EROSION MAT IS USED WITHIN CONSTRUCTION SITE DIVERSION AREAS, TECHNICAL STANDARDS 1053 AND 1066 SHALL BE FOLLOWED.
   O. WHEN NON-CHANNEL EROSION MAT IS USED TECHNICAL STANDARD 1052 SHALL BE FOLLOWED.
   P. DEPENDING ON DURATION OF CONSTRUCTION, THE CONTRACTOR MAY NEED TO RE-SEED AND RE-STABILIZE THE TOPSOIL STOCKPILE AS NECESSARY TO DISCOURAGE SEDIMENT AND EROSION.
5. A COPY OF EROSION CONTROL INSPECTION REPORTS AND THE APPROVED EROSION CONTROL PLANS SHALL BE KEPT ON SITE.
6. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL PRACTICES BY THE END OF EACH WORKDAY.
7. LOCAL ROADS SHALL BE CLEAN BY THE END OF EACH WORKDAY. CONTRACTOR SHALL HAVE LOCAL ROADS SWEPT WHERE SEDIMENT ACCUMULATES.

EROSION CONTROL OPERATION SEQUENCE + SCHEDULE

AFTER BIDS ARE RECEIVED AND A MASS GRADING CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SILT SOCKS, SEEDING, EROSION MATTING, AND OTHER EROSION CONTROL MEASURES. GENERAL CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING, OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF ½ INCH OR GREATER. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION, AND WEATHER CONDITIONS IN A DAILY LOG BOOK.

ALL REGULATORY PERMITS, PROJECT PLANS, AND INSPECTION LOGS SHALL BE KEPT ON SITE IN AN ACCESSIBLE LOCATION, SUCH AS A MAILBOX, AVAILABLE TO REGULATORY AGENCIES UPON REQUEST.

CONTRACTORS ARE TO MAINTAIN THE CONSTRUCTION SITE IN A NEAT AND TIDY MANNER FOR THE DURATION OF THE PROJECT.

THE TIMING AND SEQUENCE OF CONSTRUCTION IS SCHEDULED AS FOLLOWS:

1. OBTAIN PLAN APPROVAL FROM THE CITY OF MILWAUKEE, AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
2. CONSTRUCTION IS SCHEDULED TO BEGIN IN 2016, DEPENDING ON WEATHER & GROUND CONDITIONS.
3. A GRAVEL TRACKING PAD UNDERLAIN WITH WISDOT TYPE R GEOTEXTILE FABRIC, SHALL BE INSTALLED AS SHOWN ON THE PLANS.
4. SILT SOCK, INLET FILTER PROTECTION, SHALL BE INSTALLED AS SHOWN ON THE PLANS, AND INSPECTED PRIOR TO COMMENCING OF ANY LAND DISTURBING ACTIVITIES PER PROJECT PLANS AND DETAILS.
5. SITE DEMOLITION OF PAVEMENT, ETC. WILL OCCUR AFTER ALL EROSION CONTROL MEASURES ARE IN PLACE.
6. CONSTRUCTION OF THE BUILDING, STARTING WITH THE FOUNDATION, WILL BEGIN IMMEDIATELY AFTER THE SITE DEMOLITION IS COMPLETE IN THE BUILDING PAD AREA.
7. TOPSOIL STRIPPING AND ROUGH GRADING WILL FOLLOW. TOPSOIL STOCKPILES WILL BE LOCATED AS SHOWN ON THE PLANS. STOCKPILES WILL BE USED FOR FINAL LANDSCAPING. REMAINING STOCKPILES WILL BE REMOVED FROM THE SITE.
8. UTILITY INSTALLATION WILL OCCUR NEXT AND CONTINUE UNTIL ALL THE UTILITIES ARE INSTALLED.
9. AFTER ROUGH GRADING IS COMPLETE IN AREAS OUTSIDE OF PROPOSED ROADWAYS, PARKING LOTS, BUILDINGS, AND ALL OTHER HARD SURFACE AREAS, THE TOPSOIL WILL BE REAPPLIED AND THE LANDSCAPE CONTRACTOR WILL COMPLETE SEEDING/SODDING/FERTILIZING/MULCHING AND INSTALL EROSION MATTING AS PER APPROVED PLANS AND SPECIFICATIONS.
10. FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF GRADING ACTIVITIES. IF SITE STABILIZATION CANNOT BE COMPLETED BY OCTOBER 1, THEN THE USE OF ANIONIC POLYACRYLAMIDE CONFORMING TO WDNR TECHNICAL STANDARD 1050 SHALL BE USED.
11. AFTER ALL TOPSOIL HAS BEEN REAPPLIED AND STABILIZATION IS UNDERWAY, ROADWAY, PARKING LOT, AND SIDEWALK BASE MATERIAL WILL BE APPLIED PER PROJECT SPECIFICATIONS.
12. THE GENERAL CONTRACTOR WILL REQUEST A FINAL INSPECTION BY THE CITY. UPON APPROVAL, ALL SILT FENCES, INLET FILTER PROTECTION, AND TRIANGULAR SILT DIKES SHALL BE REMOVED, AND ACCUMULATED SEDIMENT IN THE SEDIMENT BASIN/STORM WATER POND SHALL BE DREDGED AND PROPERLY DISPOSED OF. IN ADDITION, THE CONTRACTOR MUST ENSURE THAT THE STORM WATER POND IS RETURNED TO THE SLOPES AND GRADES SHOWN ON THE PROJECT PLANS AND DETAILS.
13. IF REQUIRED, FINAL "AS-BUILT" SURVEYS ARE TO BE CONDUCTED BY THE OWNER AND FINAL DOCUMENTS FORWARDED TO THE CITY.
14. BARE SOIL LEFT UNDISTURBED FOR 14 CALENDAR DAYS MUST BE TEMPORARILY STABILIZED PER WDNR TECHNICAL STANDARD 1059, OR TEMPORARY GRADING PRACTICES PER WDNR TECHNICAL STANDARD 1067 MAY BE IMPLEMENTED. HOWEVER BY OCTOBER 1, THE SITE SHALL BE STABILIZED PER NOTE 10 ABOVE.
15. WE DO NOT ANTICIPATE THE NEED FOR WATERING WITH THIS CONSTRUCTION SCHEDULE, HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED ONCE PER WEEK.

IF CONSTRUCTION SCHEDULES SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND RESUBMITTED BY THE GENERAL CONTRACTOR TO THE CITY AND WDNR.

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS WPDES PERMIT & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOODPLAINS UNLESS IDENTIFIED IN THE PLANS & APPROVED BY DNR/USACOE.

DEWATERING PLAN

TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTIONS WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE.

NOTE: THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITIES AS DEEMED NECESSARY WITH THE WDNR.

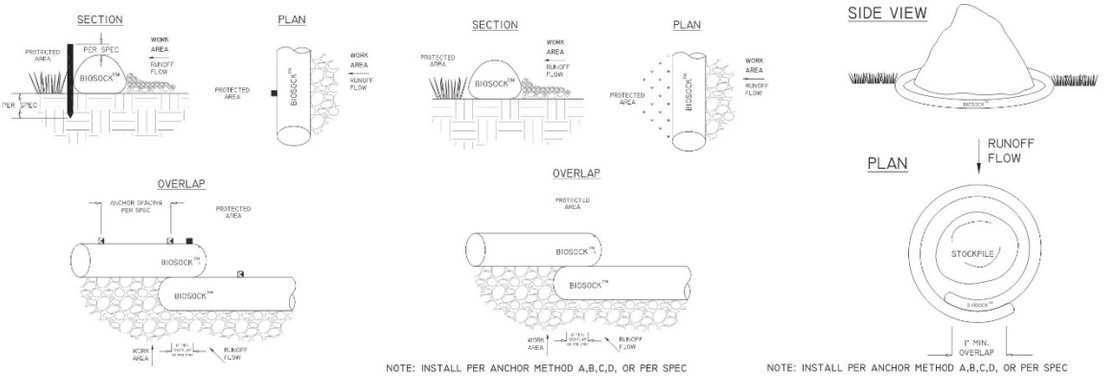
1. THE CONTRACTOR SHALL ENSURE THAT THE DEWATERING PRACTICES CARRIED OUT MEET OR EXCEED WDNR TECHNICAL STANDARD NUMBER 1061.
2. A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS, OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS, NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS.
3. A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET, HAS A MAXIMUM APPARENT OPENING SIZE OF 0.212 mm, HAS A GRAB TENSILE STRENGTH OF 200 LBS, MULLEN BURST OF 580 PSI, PERMEABILITY OF 2 GAL/SEC, FABRIC WEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS.
4. POLYMER APPROVED BY THE WDNR MEETING WDNR TECHNICAL STANDARD 1051 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOXICITY TESTING DATA TO THE WDNR BEFORE USE ON-SITE FOR WDNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE POLYMER MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SPECIFIC POLYMER, MANUFACTURER'S INFORMATION AND WDNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1051) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND WDNR'S APPLICATION RATES FOR THE POLYMER. THE APPLICATION RATE SHALL NOT EXCEED THE WDNR USE RESTRICTION, EVEN IF THIS IS THE RECOMMENDED RATE BY THE MANUFACTURER. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
5. A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
6. A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE.
7. IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED.
8. DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:
   A. DISCHARGE DURATION AND SPECIFIED PUMPING RATE.
   B. OBSERVED WATER TABLE AT TIME OF DEWATERING.
   C. MAINTENANCE ACTIVITIES
   D. NAME AND QUANTITY OF POLYMER USED. PRODUCT TYPE.
   E. APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER.
   F. DATE AND TIME APPLIED.
   G. WEATHER CONDITIONS DURING APPLICATION.
   H. METHOD OF APPLICATION.

THIS LOG NEEDS TO BE KEPT ON SITE FOR WDNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE CONTRACTOR'S MONITORING LOG AND MADE AVAILABLE UPON REQUEST.

REVIEW THE FOLLOWING FOR MORE INFORMATION:

WDNR TECHNICAL STANDARD 1061 FOR DEWATERING –
http://dnr.wi.gov/runoff/pdf/stormwater/techstds/erosion/Dewatering_1061.pdf

WDNR TECHNICAL STANDARD 1051 FOR POLYMER –
http://dnr.wi.gov/runoff/pdf/stormwater/techstds/erosion/Dewatering_1061.pdf



NOTE: INSTALL PER ANCHOR METHOD A,B,C,D, OR PER SPEC

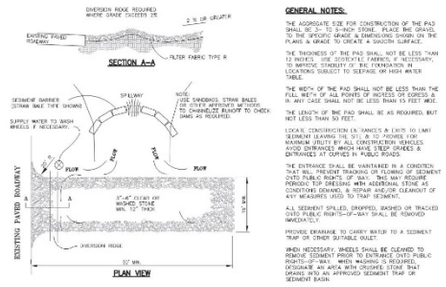
ANCHOR METHOD B

PERIMETER PROTECTION

NOTE: INSTALL PER ANCHOR METHOD A,B,C,D, OR PER SPEC

STOCKPILE CONTAINMENT

1 SILT SOCK
N.T.S.



GENERAL NOTES:

THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 3- TO 6-INCH STONE. PLACE THE GRAVEL TO THE SPECIFIC GRADE & DIMENSIONS SHOWN ON THE PLANS & GRADE TO CREATE A SMOOTH SURFACE.

THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12 INCHES. USE GEOTEXTILE FABRIC, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS & IN ANY CASE SHALL NOT BE LESS THAN 15 FEET WIDE.

THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.

USE A CONSTRICTION OR CHANGES IN GRADE TO LIMIT SEDIMENT LEAVING THE SITE & TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES & ENTRANCES AT CURVES IN PUBLIC ROADS.

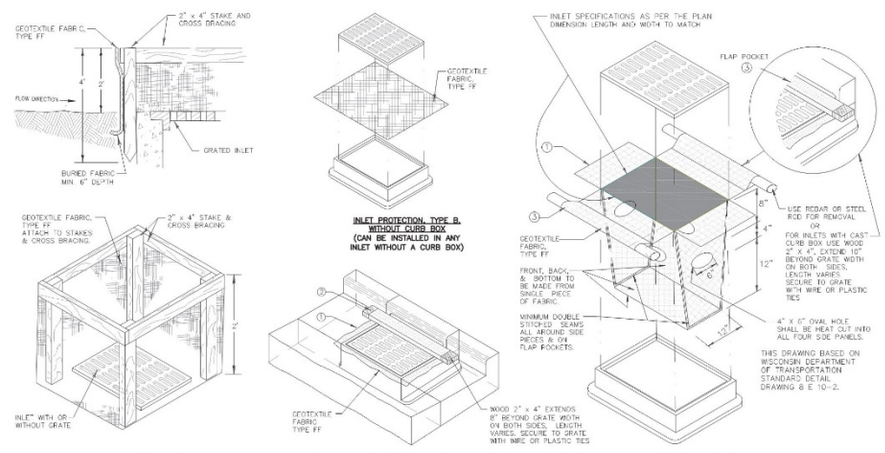
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.

PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.

WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, DESIGNATE AN AREA WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

2 STONE TRACKING CONSTRUCTION ENTRANCE
N.T.S.



INLET PROTECTION, TYPE A

INLET PROTECTION, TYPE B, WITHOUT CURB BOX
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)

INLET PROTECTION, TYPE C, WITH CURB BOX

INLET PROTECTION, TYPE D,
(CAN BE INSTALLED IN ANY INLET TYPE, WITH OR WITHOUT A CURB BOX)

GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL IN TO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3".
WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

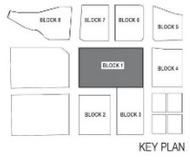
3 INLET PROTECTION DETAIL
N.T.S.

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



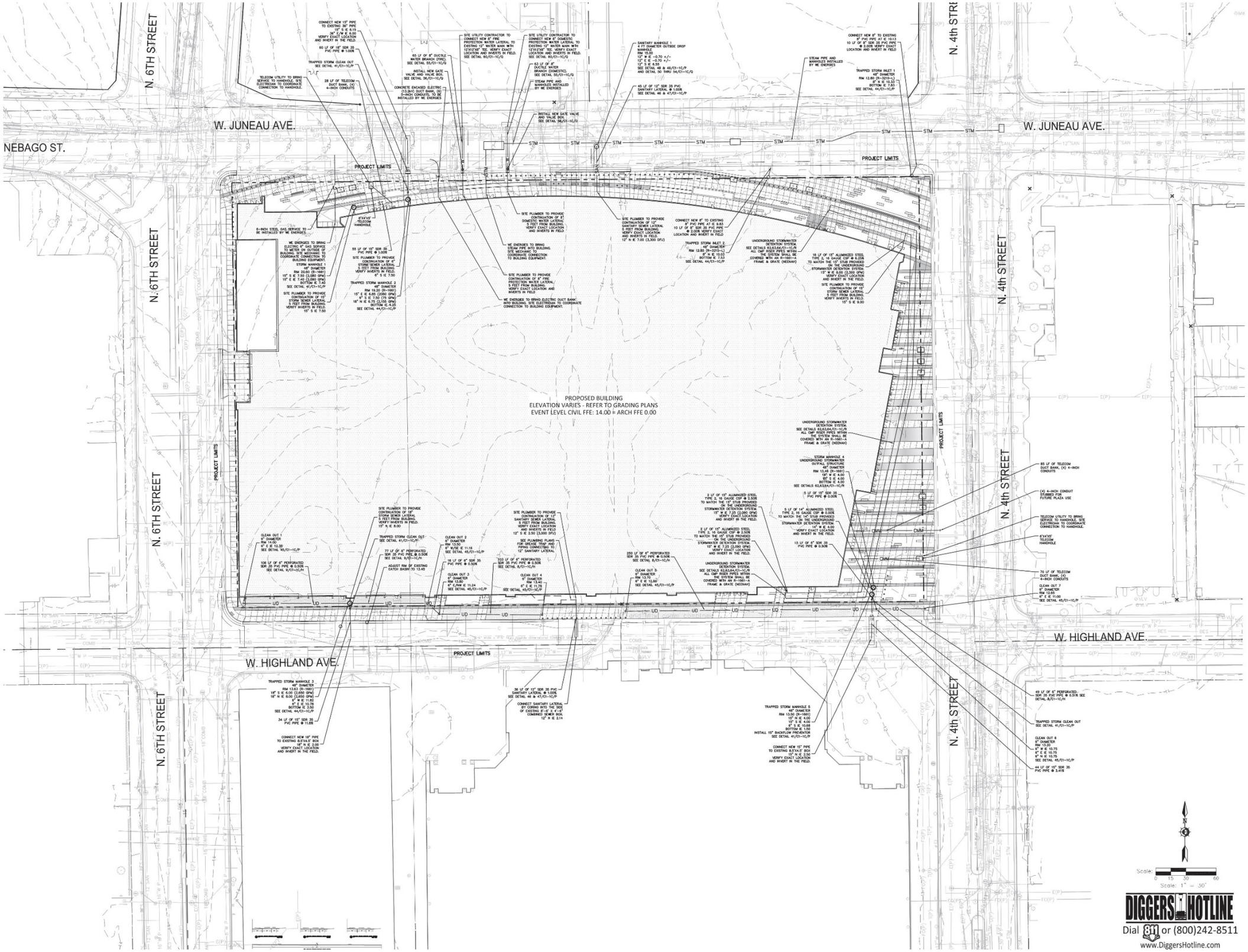
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

EROSION CONTROL DETAILS

POPULOUS HNTB eua

SHEET
A1 - 12



MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED

KEY PLAN

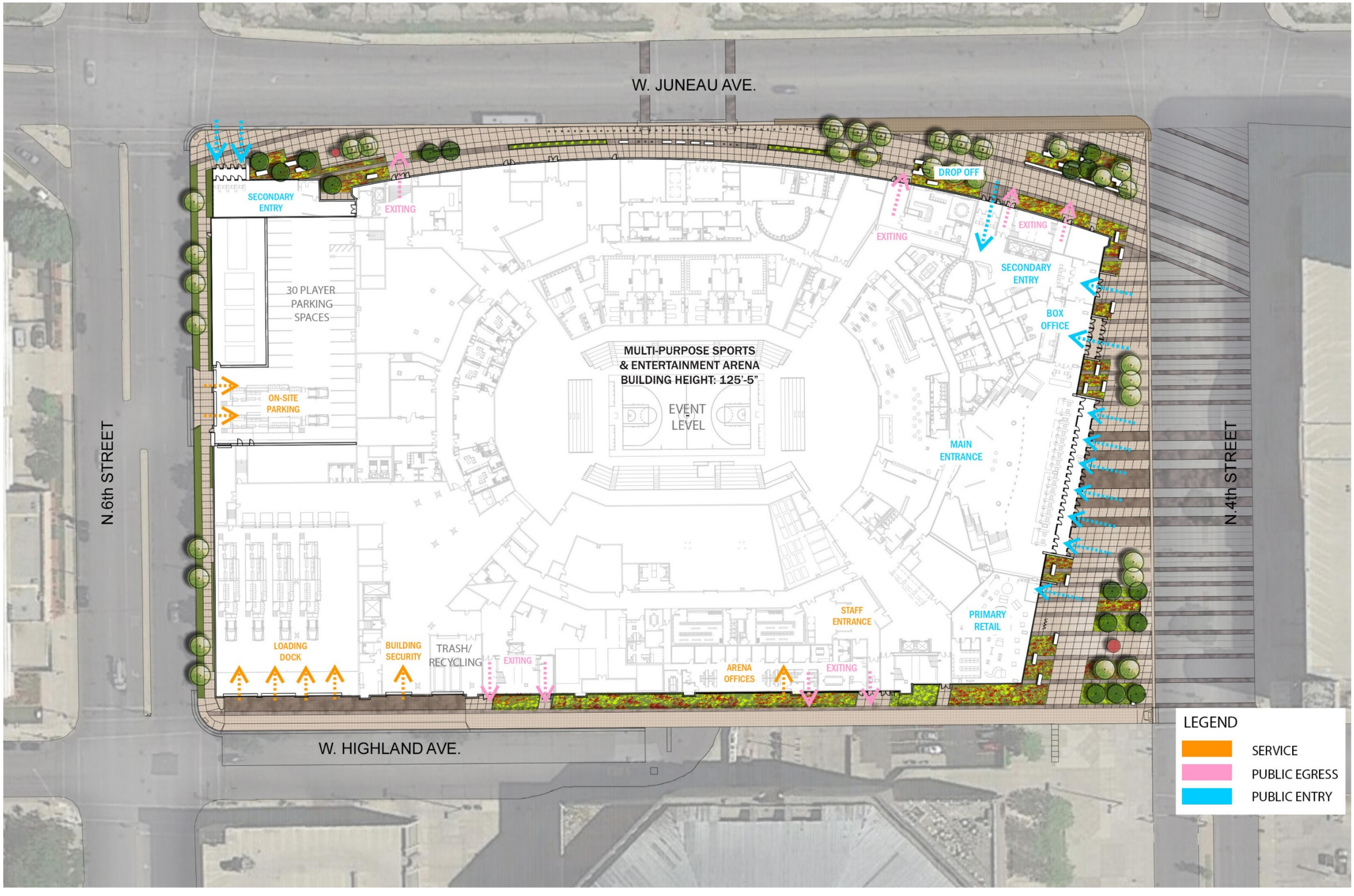
FILE NUMBER: 151653

ISSUE DATE: 05.09.2016

OVERALL UTILITY PLAN

POPULOUS HNTB eua

SHEET
A1 - 13



MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED

KEY PLAN

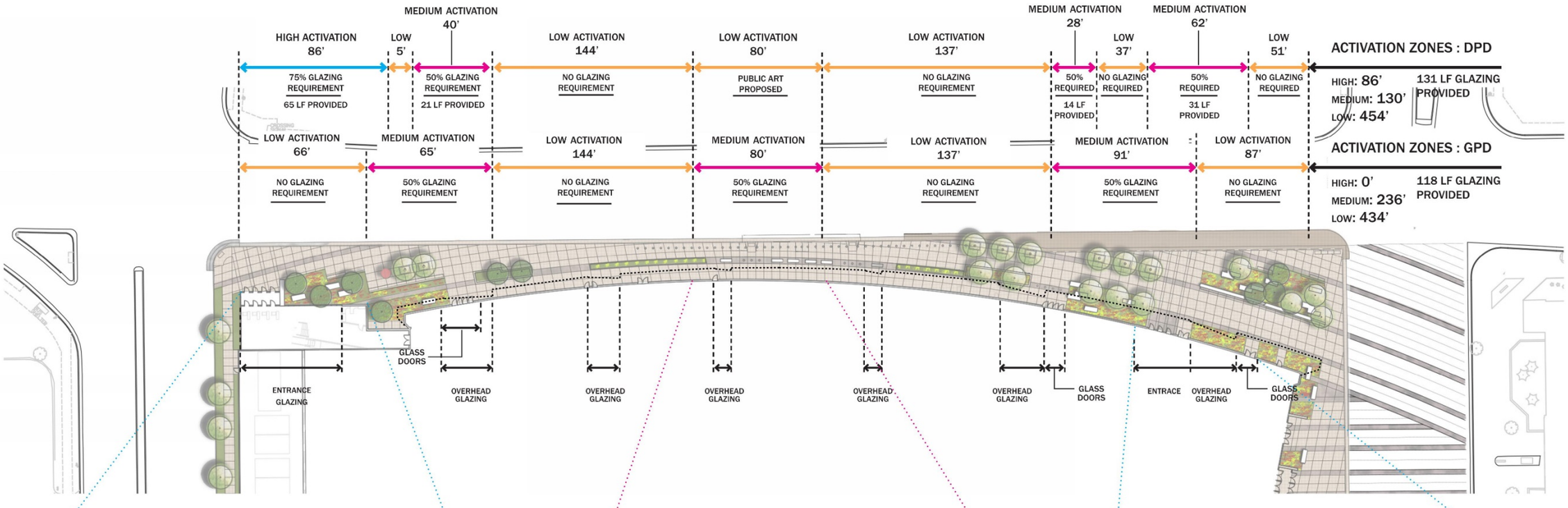
FILE NUMBER: 151653

ISSUE DATE: 05.09.2016

OVERALL SITE CIRCULATION PLAN

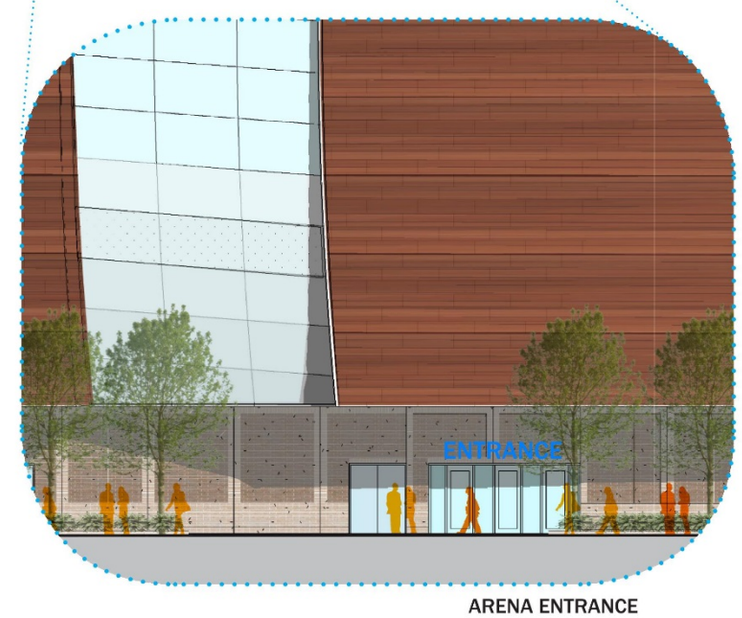
POPULOUS HNTB eua

SHEET
A1 - 14



PUBLIC ENTRANCE AT 6TH & JUNEAU
VIEW SOUTH

REPRESENTATION OF INTEGRATED
ART ELEMENT



ARENA ENTRANCE
NORTHEAST CORNER

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

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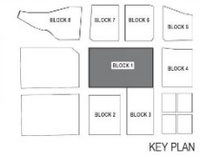

KEY PLAN

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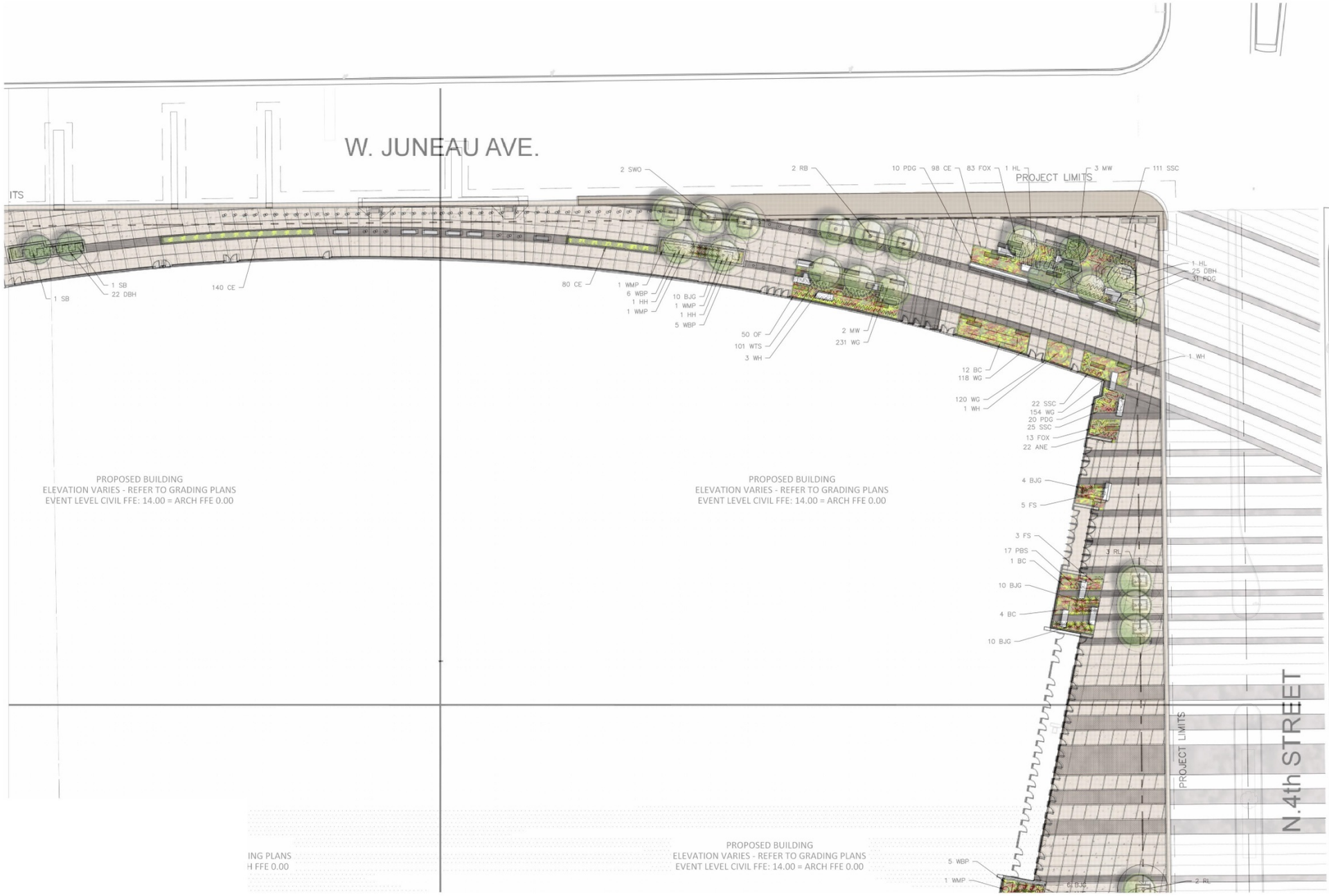
NORTH ACTIVATION PLAN - JUNEAU

POPULOUS HNTB eua

SHEET
A1 - 15



CITY PLAN REVIEW INFORMATION

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PLANT KEY

SHADE TREES		
	HH	HORNBEAM, HOP
	KCT	COFFEE TREE, KENTUCKY
	SWO	OAK, SWAMP WHITE
	HL	HONEYLOCUST
	RL	LINDEN, AMERICAN
ORNAMENTAL TREES		
	RB	REDBUD, 'COLUMBUS'
	MW	MUSCLEWOOD
	CH	HAWTHORN, COCKSPUR THORNLESS
	SB	SERVICEBERRY
	WH	WHICHHAZEL
SHRUBS		
	BD	CHOKEBERRY, BLACK
	DBH	HONEYSUCKLE, DWARF BUSH
	FS	SUMAC, FRAGRANT
	WBP	HOLLY, WINTERBERRY (FEMALE)
	WMP	HOLLY, WINTERBERRY (MALE)
PERENNIALS, GRASSES, GROUNDCOVERS AND EVERGREENS		
	BF	BUTTERFLY WEED
	CE	SEDGE, IVORY
	WTS	SEDGE, WHITE TINGED
	PC	CONEFLOWER, PURPLE
	SSC	COREOPSIS 'SIENNA SUNSET'
	ANE	ASTER, NEW ENGLAND
	FOX	SEDG, FOX
	WG	GERANIUM, WILD
	PDG	GRASS, PRAIRIE DROPSEED
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	BJG	JOINT GRASS, BLUE
	BES	BLACKEYED SUSAN
	PBS	BLAZING STAR
	OF	FERN, OSTREICH
	VC	CREEPER, VIRGINIA
	BJ	JUNIPER, BROADMOOR
	SJ	JUNIPER, CREEPING WISCONSIN

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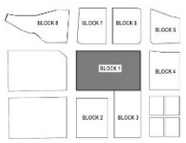

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ENLARGED LANDSCAPE PLAN - 4TH & JUNEAU

POPULOUS HNTB eua

SHEET
A1 - 16

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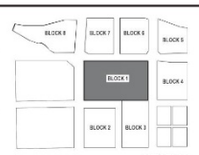

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ENLARGED LANDSCAPE PLAN - 4TH & HIGHLAND

POPULOUS HNTB eua

SHEET
A1 - 17

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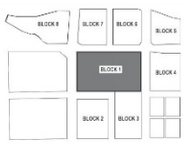

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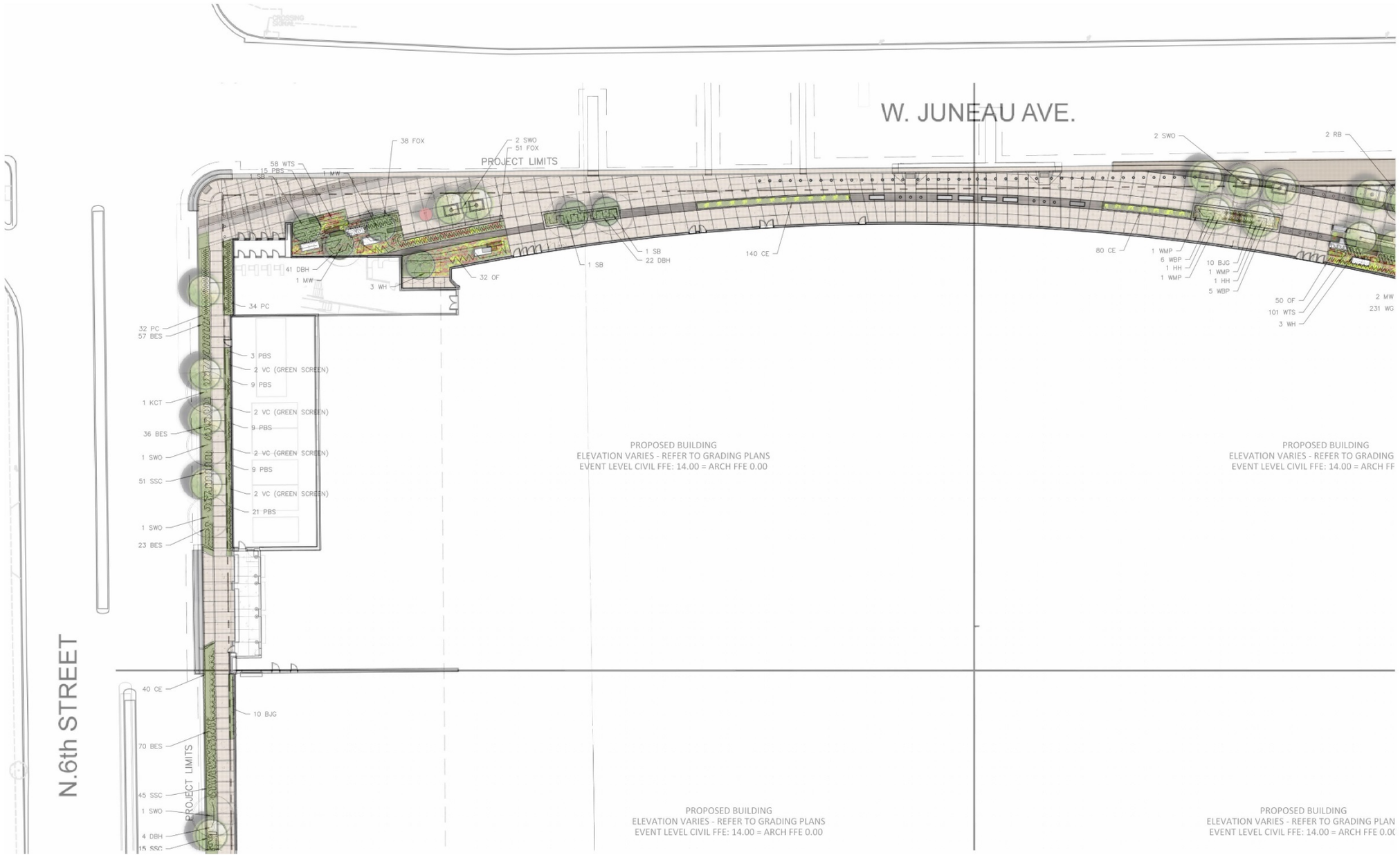
ENLARGED LANDSCAPE PLAN - 6TH & HIGHLAND

POPULOUS HNTB eua

SHEET
A1 - 18



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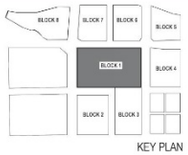

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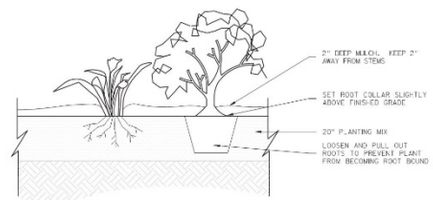
ENLARGED LANDSCAPE PLAN - 6TH & JUNEAU

POPULOUS HNTB eua

SHEET
A1 - 19

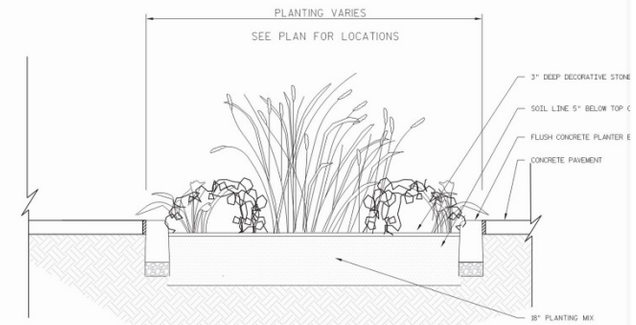
SYM.	QUANT.	COMMON NAME	SCIENTIFIC NAME	AVE. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE MODE
SHADE TREES						
HH	2	Hornbeam, Hop	Ostrya virginiana	30'	2" CAL	B&B
KCT	4	Coffee Tree, Kentucky	Gymnocladus dioica	50'	2" CAL	B&B
SWO	7	Oak, Swamp White	Quercus bicolor	50'	2 1/2" CAL	B&B
HL	2	Honeylocust	Gleditsia triancanthos 'Skyline'	60'	2 1/2" CAL	B&B
RL	9	Linden, American	Tilia americana 'Redmond'	45'	2 1/2" CAL	B&B
ORNAMENTAL TREES						
RB	2	Redbud 'Columbus'	Cercis canedensis 'Columbus'	20'	2" CAL	B&B
MW	7	Musclewood	Carpinus carolinana	20'	2" CAL	B&B
CH	2	Hawthorn, cockspur thornless	Crataegus crus-galli inermis	30'	2" CAL	B&B
SB	7	Serviceberry	Amellanchier canadensis	20'	2" CAL	B&B
WH	8	Witctthhazel	Hamamellis virginiana	15'	2" CAL	B&B
EVERGREEN SHRUBS						
BJ	13	Juniper, Broadmoor	Juniperus savbna 'Broadmoor'	18"	#3	CONT.
SJ	15	Juniper, creeping 'Wisconsin'	Juniperus horizontallis 'Wisconsin'	12'	#3	CONT.
DECIDUOUS SHRUBS						
BC	20	Chokeberry, Black	Aronia melanocarpa	8'	2' HT	CONT.
DBH	114	Honeysuckle, Dwarf Bush	Diervilla lonicera	5'	18" HT	CONT.
FS	41	Sumac, Gro-Low Fragrant	Rhus aromatica 'gro-low'	3'	12" HT	CONT.
WBP	56	Holly, Winterberry (female)	Ilex verticillata 'FarrowBPop'	5'	2' HT	CONT.
WMP	8	Holly, Winterberry (male)	Ilex verticillata 'FarrowMP'	5'	2' HT	CONT.
PERENNIALS, GRASSES, & GROUNDCOVERS						
BF	112	Butterfily weed	Asclepias tuberosa	5'	4"	CONT.
CE	600	Sedge, Ivory	Carex eburnea	12"	4"	CONT.
WTS	159	Sedge, white tinged	Carex albicans	18"	4"	CONT.
PC	252	Coneflower, purple	Echinacea purpurea	4'	4"	CONT.
SSC	319	Coreopsis 'Sienna Sunset'	Coreopsis 'Sienna Sunset'	1"	4"	CONT.
ANE	224	Aster, New England	Aster novo-angliae L.	1'	4"	CONT.
FOX	113	Sedge, Fox	Carex stipata	2'	4"	CONT.
WG	849	Geranium, Wild	Geranium maculatum	8"	4"	CONT.
PDG	168	Grass, Prairie Dropseed	Sporobolus heterolepis	2'	4"	CONT.
BJG	157	Joint Grass, Blue	Calamagrostis canadensis	4'	4"	CONT.
BES	606	Blackeyed Susan	Rudbeckia hirta	3'	4"	CONT.
PBS	173	Blazing Star, Prairie	Liatris pycnostachya	3'	4"	CONT.
OF	50	Fern, Ostreich	Matteuccia Pennsylvanica	3'	4"	CONT.
VINES						
VC	16	Creeper, Virginia	Parthenocissus quinquefolia	5' +	#1	CONT.

1 PLANT SCHEDULE
N.T.S.

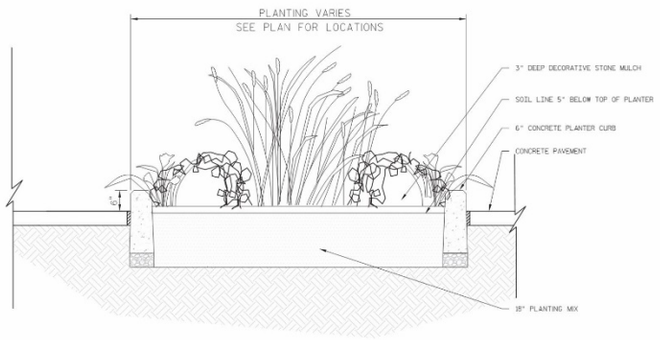


NOTE:
1) ALL POTS SHALL BE REMOVED PRIOR TO PLANTING

2 SHRUB & PERENNIAL PLANTING DETAIL
N.T.S.

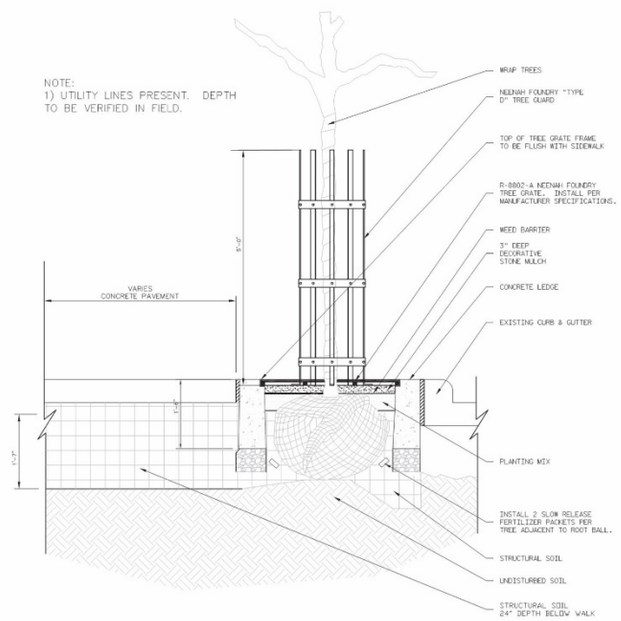


3 AT GRADE PLANTER
N.T.S.



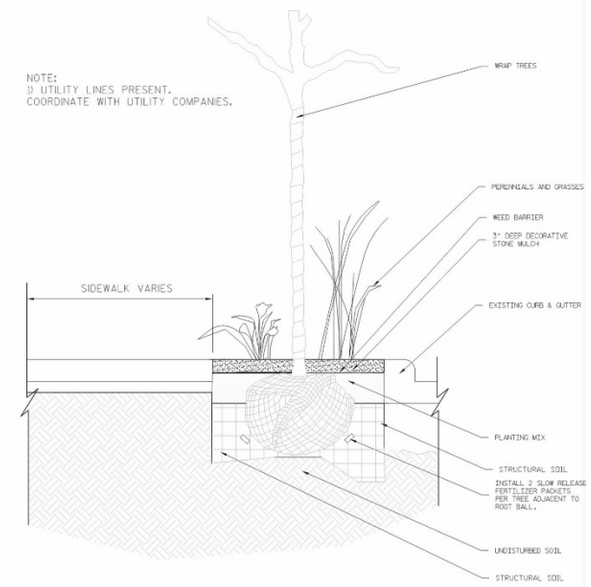
4 6" CURB PLANTER
N.T.S.

NOTE:
1) UTILITY LINES PRESENT. DEPTH TO BE VERIFIED IN FIELD.



5 TREE PLANTING WITH GRATE
N.T.S.

NOTE:
1) UTILITY LINES PRESENT. COORDINATE WITH UTILITY COMPANIES.



6 STREET TREE PLANTING
N.T.S.

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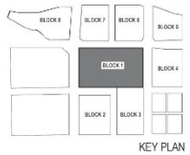

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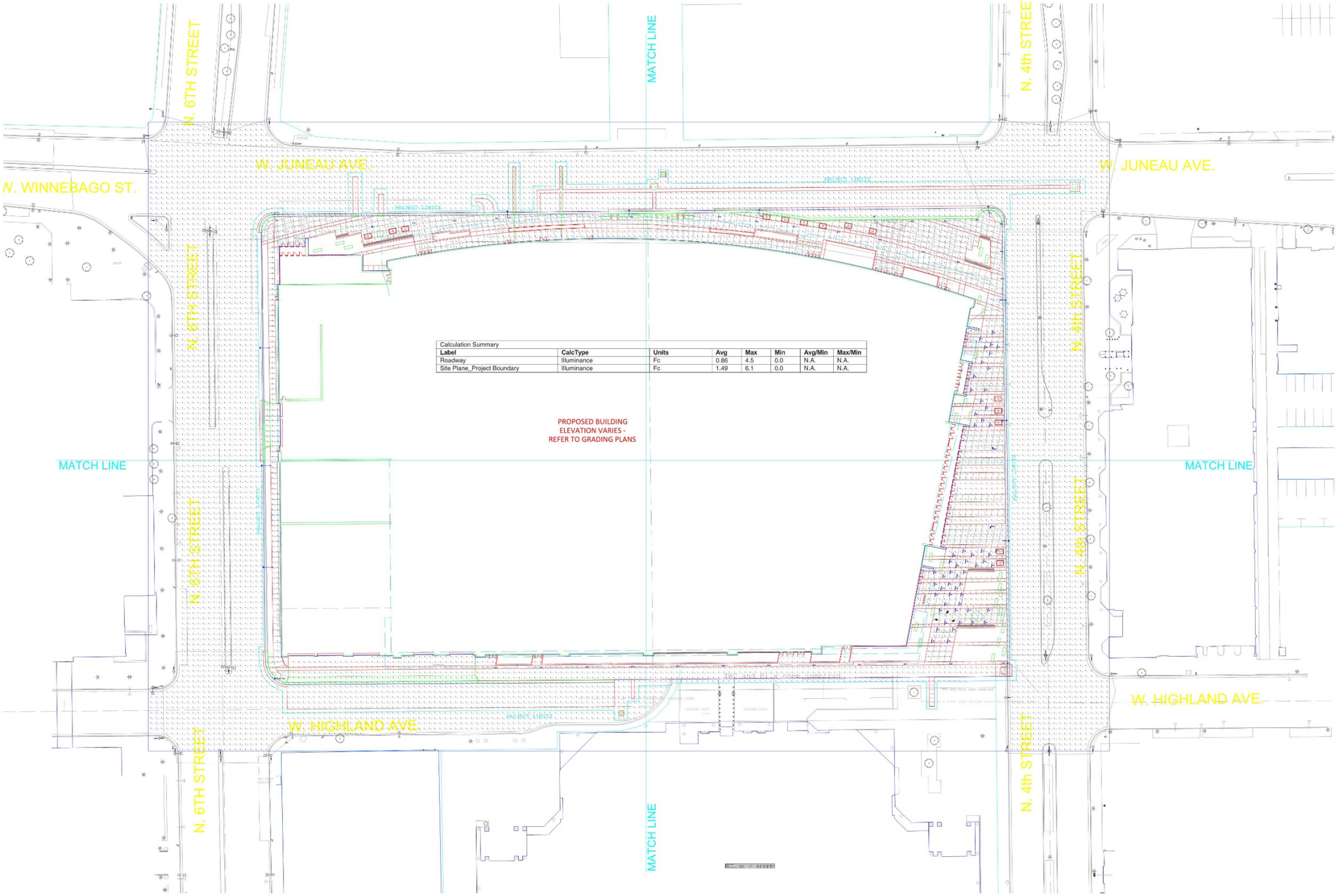
SITE LANDSCAPE DETAILS

POPULOUS HNTB eua

SHEET
A1 - 20



Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Roadway	Illuminance	Fc	0.86	4.5	0.0	N.A.	N.A.
Site Plane_Project Boundary	Illuminance	Fc	1.49	6.1	0.0	N.A.	N.A.

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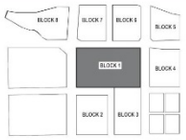

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SITE AREA LIGHTING - PHOTOMETRIC STUDY

POPULOUS HNTB eua

SHEET
A1 - 21

SITE LIGHTING FIXTURE SCHEDULE

SITE FAÇADE Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
S1	LED, 8.5W/LF REG OUTPUT, 3584 LUMENS, 4000K, 50,000 HR	48-3/8" L X 2-5/16"W X 3-1/2"H LINEAR WASH, END TO END CONFIGURATATION, 30X60 DEGREE OPTIC, BLACK, STAINLESS STEHL HARDWARE, CLEAR GLASS LENS, RADIAL LOUVER ACCESSORY, INTEGRAL PS, PER FOOT RESOLUTION	BLACK	277	2" ADJ BRACKET	LUMENPULSE	LOGHO-277-48-40K-30X60-WAMO-BK-DMX/RFM-ETE-LOUVER	TRAXON	INSIGHT MEDLEY	DMX PER LF	FAÇADE - BROW	PROVIDE ALL PARTS FOR COMPLETE SYSTEM
S1A	LED, 8.5W/LF REG OUTPUT, 3584 LUMENS, 4000K, 50,000 HR	SAME AS S1, EXCEPT HIGH OUTPUT, 30X60 DISTRIBUTION, SURFACE MTD ADJUSTABLE	BLACK	277	2" ADJ BRACKET	LUMENPULSE	LOGHO-277-48-40K-30X60-SAM-BK-DMX/RFM-ETE-LOUVER	TRAXON	INSIGHT MEDLEY	DMX PER LF	FAÇADE - BROW	PROVIDE ALL PARTS FOR COMPLETE SYSTEM
S1B	LED, 8.5W/LF REG OUTPUT, 3584 LUMENS, 4000K, 50,000 HR	SAME AS S1, EXCEPT HIGH OUTPUT, 10X60 DISTRIBUTION, SURFACE MOUNTED ADJUSTABLE	BLACK	277	2" ADJ BRACKET	LUMENPULSE	LOGHO-277-48-40K-10X60-SAM-BK-DMX/RFM-ETE-LOUVER	TRAXON	INSIGHT MEDLEY	DMX PER LF	FAÇADE - BROW	PROVIDE ALL PARTS FOR COMPLETE SYSTEM
S2		NOT USED										
S2A	LED 205W, 10447 LUMENS, 4000K, 80CRI, 120,000 HRS	LARGE FLOOD, 17-1/2" DIA X 5-3/4" D X 23-1/8" T (WITH YOKE), NARROW BEAM WITH FIELD ADJUSTED LINEAR SPREAD LENS, SHORT YOKE, 4" SQ POLE MOUNT, SNOOT	BLACK	277	YOKE	LUMENPULSE	LBX HO-277-40K-NS-BK-SPD-LENS-DMX-SY-PM4SQ-K-LBX-SN-BKM-BK/LBX-L SLA-BKM	APPROVED ALTERNATE	APPROVED ALTERNATE	DMX	EAST FAÇADE	
S3	LED, 17W/LF, 2247 LUMENS, RGBW QUAD CHROMATIC (4000K), 75,000 HR	CONTINUOUS INDIRECT RGBW QUAD CHROMATIC (WITH WHITE), 3 7/8" X 2-3/4" X 48" (CONTINUOUS), TEMPERED GLASS LENS, 12" MTG BRACKET, 100DEG BEAM DISTRIBUTION, INTEGRAL POWER SUPPLY, IP67, CORROSION RESISTANT FINISH	CC - TO MATCH ADJACENT SURFACE FINISH	277	12" STEM	INSIGHT	1TRGBW100 CXSCW12 (MODIFIED)-48(CONTINUOUS)-INT2/ ACV2-DMXFX (4')-CC (TBD-CRF	TRAXON	INSIGHT MEDLEY	DMX RGBW	EAST FAÇADE PANORAMA BALCONY	MODIFIED STEM MTG FOR INDIRECT APPLICATION
S4	LED 22W, 1893 LUMENS, 4000K, 80CRI, 50,000 HRS	MINI PROJECTOR FLOOD, 124mm SQ, ADJUSTABLE KNUCKLE, EXTENSION 235mm, CAST ALUM WITH DOUBLE POWDERCOAT PAINT, 130DEG TILT, 360DEG ROTATION, INTERNAL PS	SILVER	277	SURFACE	ERCO	34167.000	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	SOUTH V STRUCTURE FAÇADE	
S4A	LED 22W, 1893 LUMENS, 4000K, 80CRI, 50,000 HRS	MINI PROJECTOR FLOOD, 124mm SQ, ADJUSTABLE KNUCKLE, EXTENSION 235mm, CAST ALUM WITH DOUBLE POWDERCOAT PAINT, 130DEG TILT, 360DEG ROTATION, INTERNAL PS	SILVER	277	SURFACE	ERCO	34044.000	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	SOUTH V STRUCTURE FAÇADE	
S5	LED 46W, 1878 LUMENS, 3000K, 80CRI, 50,000 HRS	14.75' STRAIGHT ROUND EXTRUDED 1/8" ALUM PEDESTRIAN POLE LIGHT, MARINE GRADE, CLEAR POLYCARBONATE DIFFUSER AND ALUM REFLECTOR, SURGE PROTECTION, XME PAINTED, DIRECT BURIED	SILVER	277	POLE	BEGA	8464 K3 LED SILVER	LUMEC	SELUX	ON/OFF	OVAL LIGHT COLUMN	
S6	LED 44W, 3258 LUMENS, 3000K, 80CRI, 50,000 HRS	39-3/8"L X 3-1/2"W X 5"D LINEAR INGRADE, STAINLESS STEEL FACEPLATE AND INNER HOUSING, ALUM OUTER HOUSING, 1/4" TEMPERED SAFETY GLASS FLUSH IN FACEPLATE, REMOTE POWER SUPPLY (SINGLE GANG BOX BY CONTRACTOR)	STAINLESS STEEL	277	INGRADE	BEGA	7916LED K3	HESS	DESIGN PLAN	ON/OFF	EAST SITE PLAZA	
S7		NOT USED										
S8	LED 34.5W, 1173 LUMENS, 3000K, 85CRI, 50,000 HRS	9-1/2" DIA X 10-5/8"H RECESSED ALUM DOWNLIGHT, 3 MIL POLYESTER POWDERCOAT, TEMPERED CLEAR GLASS LENS WITH STEP BAFFLE	BLACK	277	RECESS	RIFGA	6624 LED	GOTHAM EVO	BK LIGHTING	ON/OFF	BUILDING ENTRY CANOPIES	
S9	LED, (STANDARD OUTPUT) X LUMENS PER LF, 3000K, 80K HRS	NOMINAL 3.375"D X CONTINUOUS 2.25"W LINEAR RECESSED, WET LABEL - CHICAGO PLENUM (ADAPTED FOR 6" INSULATED CEILING MATERIAL), TRIM FLANGE, DIFFUSING LENS (NO LED IMAGE), VERTICAL AND HORIZONTAL MOUNTED	SILVER (A-TITANIUM)	277	RECESSED	A LIGHT	ACLS-R(LENGTH PER PLANS) LCW/LSWK, FLANGE (TBAR HORIZ, OTHER VERT), L8-3000K-HE (BOTH VERT/ HORIZ) - 277- T-D-Q-C	ALW	AXIS BEAM 4	0-10V	EAST AND SW ENTRY CANOPY	PROVIDE COMPLETE SYSTEM FOR INSTALLATION CONDITIONS
S10	LED 19W, NOM 1000 LUMENS, 3000K, 80CRI, 50,000 HRS	IN GRADE (WITHIN TREE GRATES ONLY) INDIRECT ACCENT, 12"DIA X 16" H ROUND, FLAT CLEAR LENS, GLARE SHIELD, LSF	BLACK	277	IN TREE GRATES	HYDREL	M9720SS 18LED WHT30K 277 NSP/MFL (VARIES) 3/4S LSF GS	ERCO	LUMIERE	ON/OFF		
S11	LED	CUSTOM POLE - ALLOWANCE $15,000 MATERIAL FOR EACH, MULTI HEAD ADJUSTABLE, INTEGRAL CHANNEL FOR LOW VOLTAGE SYSTEMS, GLARE AND OPTICAL CONTROL	TBD		25' POLE MAX	TECHNILUM		APPROVED ALTERNTAE	APPROVED ALTERNATE	DMX	EAST PLAZA ENTRY	
S12	LED 230W, 23600 LUMENS, 700mA, 4000K, 850CRI, 50,000 HRS	38" L X 14"W STREET LIGHT, TYPE III DISTRIBUTION, FLAT LENSE, STEEL GREY, SINGLE ARM MOUNT, ARC POLE 34', 30' BRACKET ARM, 21" BANNER ARM	STEEL GREY	277	34' POLE	LUMCA	OL35-108-LED07-230W-40K-L347-480-SG-SGP/ ATR108-C1 WITH BANNER ARM	APPROVED ALTERNATE	APPROVED ALTERNATE	BY CITY - VERIFY ON/ OFF	EASEMENT AROUND BUILDING	COORDINATE WITH CITY FOR CIRCUITING AND CONTROLS
S13	LED 44W, 3258 LUMENS, 3000K, 80CRI, 50,000 HRS	GROUND MTD LANDSCAPE BULLET, SQUARE 5-13/16", X 2-1/2" W, PRISMATIC LENS, INTEGRAL POWER MOUNT	CHROME SMOOTH	120	POWER MOUNT	WINSCAPE	ALDHK 3LRD16 30K 120 20NFL WSL 350R PM60A PM60B L1 CHS	LUMIERE	ERCO	ON/OFF	SITE LANDSCAPE BOXES, TREES WITHOUT GRATES	CONTRACTOR TO PROVIDE CONCRETE BASE FOR MOUNTING LANDSCAPE LIGHTING
S14	LED 15W, 480 LUMENS, 3000K, 85CRI, 50,000 HRS	DIE CAST ALUM SCONCE, 7-1/2"H X 4-3/8"W X 4-3/4"D, DIRECT MOUNT, CLEAR SAFETY GLASS, ALUM REFLECTOR	BLACK	277	WALL	BEGA	3542 LED BK	ERCO KUBUS OR CYLINDER	BETA CALCO TORRE SERIES	ON/OFF	FAÇADE SERVICE AND MAN DOORS	
S14A	LED 22.5W, 900 LUMENS, 3000K, 85CRI, 50,000 HRS	SAME AS S14 EXCEPT LARGER LUMEN PACKAGE	BLACK	277	WALL	RIFGA	3543 LED BK	ERCO KUBUS OR CYLINDER	BETA CALCO TORRE SERIES	ON/OFF	WEST FAÇADE WALKWAY	
S15	47W LED, 4228 LUMENS, 4000K	SITE WALL MOUNTED FIXTURE, TYPE 3 DISTRIBUTION, WET LISTED	BLACK	277	WALL SURFACE	LITHONIA	WST LED-2-10A700/ 40K-SR3-MVOLT-PE-DBLXD	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	GENERATOR YARD	

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:

Post construction: One piece extruded aluminum, 1/8" wall thickness, with one piece die-cast aluminum top. Provided with access plate to driver/ballast. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Clear polycarbonate diffuser and reflector made of pure anodized aluminum held in place by die-cast aluminum frame and stainless steel rods. Fully gasketed for weather tight operation using a molded silicone rubber gasket.

Electrical: 46W LED luminaire, 46 total system watts, -30°C start temperature, surge protection. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI); add suffix K3 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 66.5 lbs.

Luminaire Lumens: 1878
Tested in accordance with LM-79-08

Lamp	A	B	C	D
8464 LED 46W LED	6 1/4	23 3/4	177	31 1/2

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
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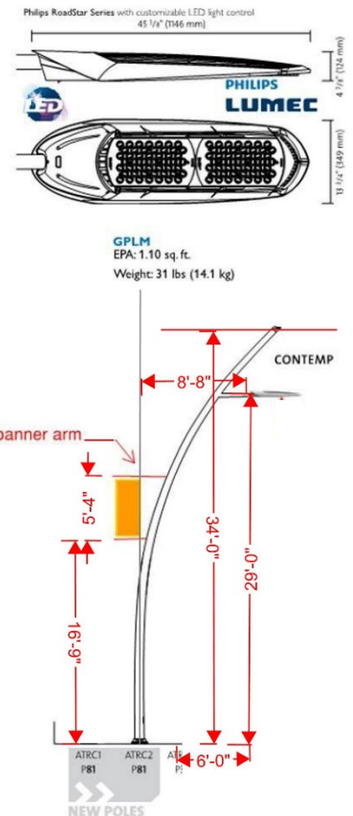
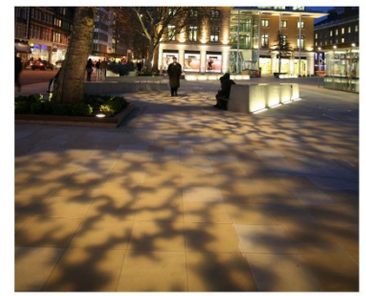
TYPE S5 - PEDESTRIAN POLE AREA LIGHT



TYPE S12 - CITY STANDARD STREET LIGHT WITH CUSTOM POLE

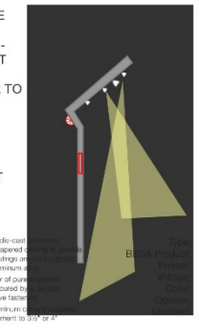


MULTI-HEAD ADJUSTABLE ACCENTS ON A CUSTOM SIGNATURE PLAZA POLE - DESIGN IN DEVELOPMENT

- MODULAR UNIT SIMILAR TO UPPER PHOTO WITH INTEGRATED STANDARD ARCHITECTURAL LIGHT

- ANGLED ARM BRACKET SIMILAR TO LOWER PHOT

-20'-0" MAX HEIGHT



Housing: Luminaire constructed of a one piece die-cast [illegible] housing. LED module paired with inner reverse-tapered [illegible] maximum heat transfer to outer housing. Die castings are [illegible] copper free (≤ 0.3% copper content) A360.0 aluminum a[illegible]

Enclosure: Optical system consists of a reflector of pure [illegible] aluminum. The lens and optical assembly are secured by [illegible] aluminum trim ring using (3) stainless steel captive fasten[illegible]

Mounting: Provided with two piece die-cast aluminum c[illegible] with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die cast aluminum swivel.

Electrical: 19.6W LED luminaire, 21.2 total system watts, -30° C start temperature. Integral 120V - 277 V electronic LED dr ver, 0-10V dimming. 6.5W low power option available, non dimming. The LED module and driver are mounted on a removable inner assembly for easy replacement. Standard LED color temperature is 4000K with an 80 CRI. Available in 3000K (85 CRI); add suffix K3 to order.

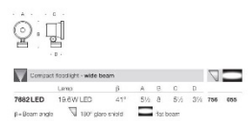
Note: Due to the dynamic nature of LED technology, LED luminaire data in this catalog is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

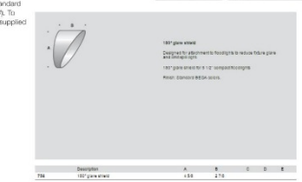
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards for wet locations. Protection class IP65.

Weight: 4.0 lbs.

Luminaire Lumens: 1158
Tested in accordance with LM-79-08





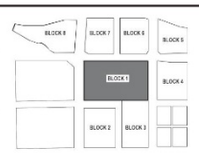
TYPE S11 - MULTI-PURPOSE PLAZA ACCENT POLE

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



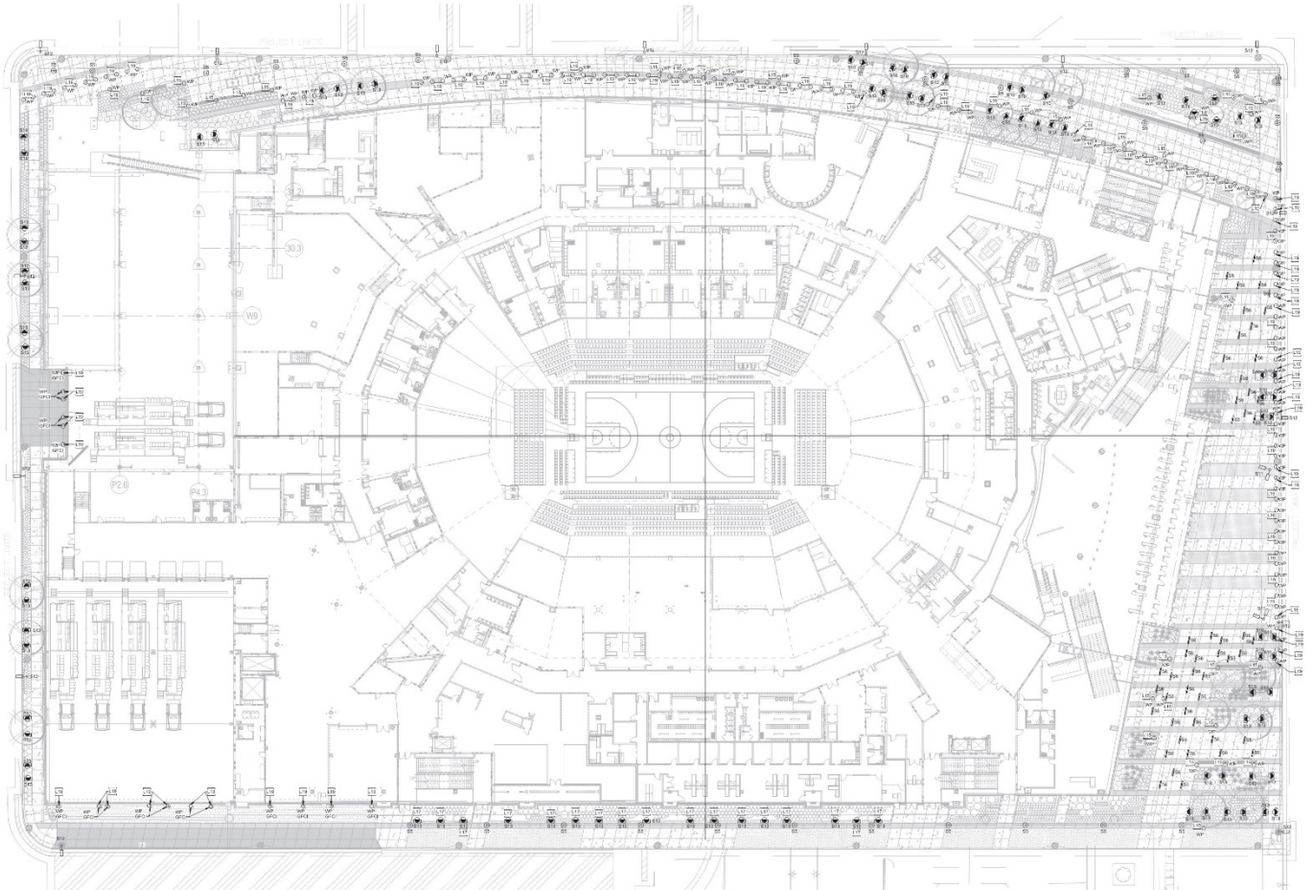
KEY PLAN

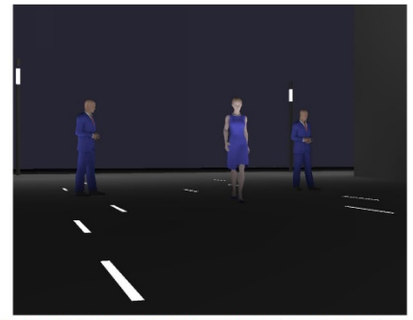
FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

SITE AREA LIGHTING - PRODUCT CUTSHEETS

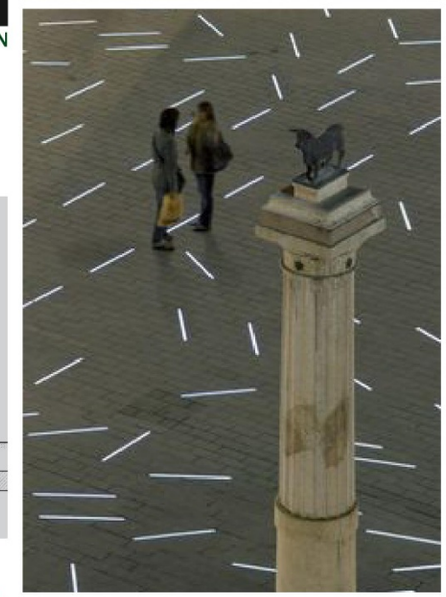
POPULOUS HNTB eua

SHEET A1 - 22





PHOTOMETRIC RENDERING OF APPLICATION



Drive-over in-grade linear floodlights with LEDs - Symmetrical

Enclosure: Outer housing: Constructed of high tensile strength, copper free die-cast aluminum alloy.

Inner housing: Constructed of wire cloth stainless steel. Trim: Receptacle is heavy gauge, cold rolled stainless steel as used in the inner housing by stainless steel threaded welded studs. Maintenance requires removal of inner housing. Main flange are assembly from outer housing by means of two flush, socket head stainless steel screws. 1/2" thick tempered matte finish glass machined flush to faceplate. One piece molded U-channel, high temperature silicone gasket. Reflector is aluminum with high gloss coating.

Electrical: 44 W LED Luminaire, -30°C star temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. Standard LED: color temperature is 4000K with a >80 CRI. Available in 3000K (>80 CRI), add suffix K3 to order. Inner housing pre-wired with nine (9) feet of 18/5 water stopper cable, cable clamp, and waterproof cable gland entry into housing. A separate weatherproof single gang wiring box for power supply must be provided (by contractor).

Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA US. For the most current technical data, please refer to www.bega-us.com.

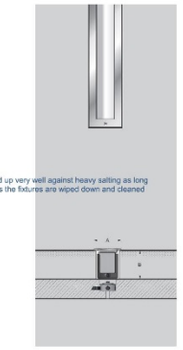
Finish: All brushed stainless steel. Custom colors are not available.

UL: Listed, as inline for wet locations and vehicle drive-over. Protection class: IP67.

Note: A foundation and proper drainage must be supplied by the contractor. These luminaires are designed to bear pressure loads: up to 2,200 lbs. from vehicles with air-operated tires. Track maneuvers are not an issue for traffic areas where they are subject to horizontal pressures from vehicles braking, accelerating and changing direction.

Luminaire Lumens: 0208

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



The 7916LED is a high grade 316 stainless steel fixture that will hold up very well against heavy salting as long as proper care is done to the fixtures. What this means is as long as the fixtures are wiped down and cleaned regularly there should be no issues of corrosion.

Best Regards
Jake Kendall
Sales Service Representative
BEGA

BEGA US
1200 BEGA Way
Carpinteria, CA 93013

Floodlight - **Symmetrical**
7916LED 36.0W LED 3000 - 3700 K

BEGA - US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-6533 FAX (805) 566-8474 www.bega-us.com
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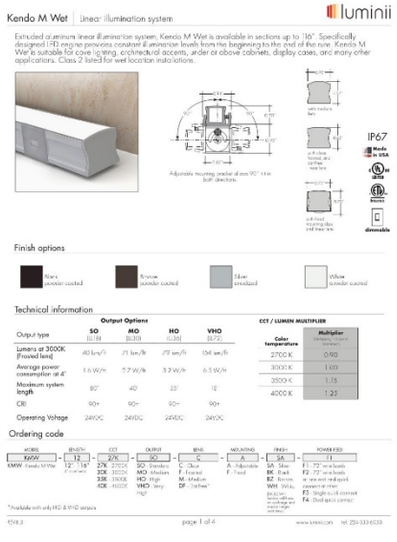
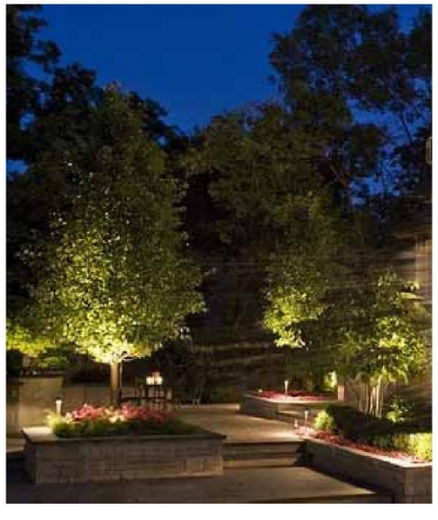
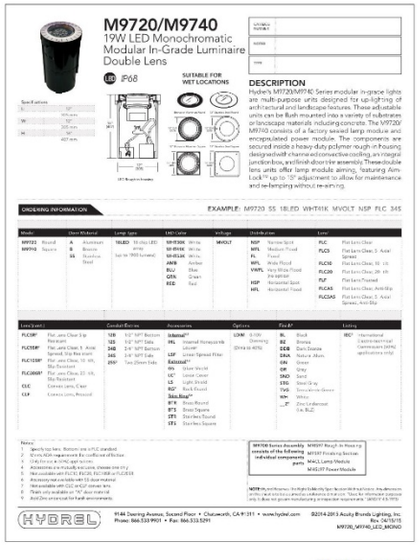
TYPE S6 - INGRADE LIGHT - FIELD

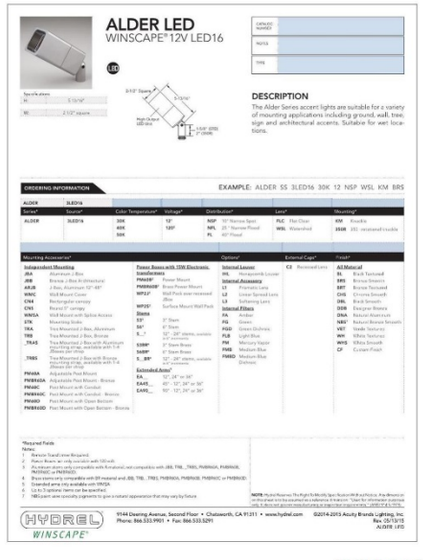




TYPE S9 - INTEGRATED BENCH ACCENT



TYPE S10 - TREE GRATE UPLIGHT



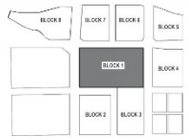
TYPE S13 - PLANTER & FOLIAGE

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

SITE LANDSCAPE LIGHTING
LEGEND AND CUTSHEETS

POPULOUS HNTB eua

SHEET
A1 - 23

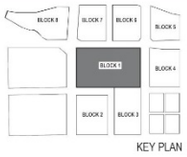
MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

3D VIEW - EAST PLAZA ON 4TH STREET
VIEW WEST

POPULOUS HNTB eua

SHEET
A1 - 24

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

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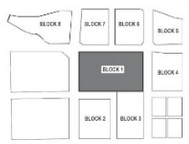
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

3D VIEW - VIEW FROM HIGHLAND
VIEW EAST

POPULOUS HNTB eua

SHEET
A1 - 25

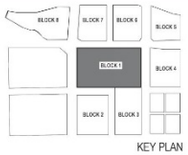
MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

3D VIEW - VIEW FROM 4TH & JUNEAU
VIEW SOUTH

POPULOUS HNTB eua

SHEET
A1 - 26

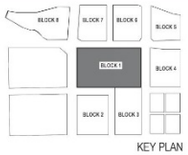
MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

3D VIEW - NORTHWEST ENTRANCE
VIEW SOUTH

POPULOUS HNTB eua

SHEET
A1 - 27

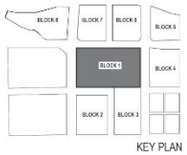
MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

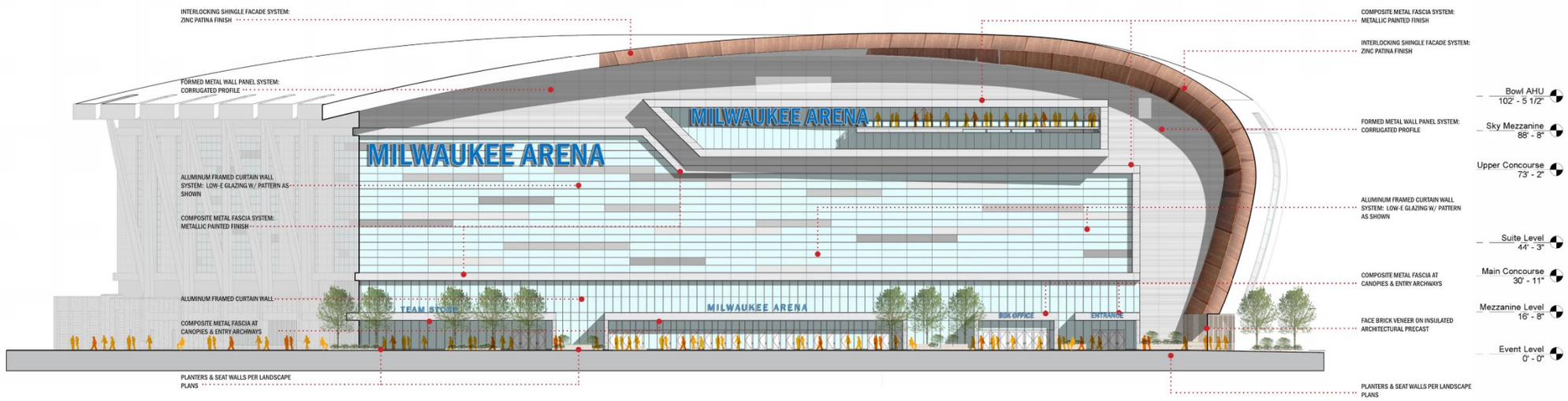
FILE NUMBER: 151653

ISSUE DATE: 05.09.2016

3D VIEW - 6TH & JUNEAU
VIEW SOUTH

POPULOUS HNTB eua

SHEET
A1 - 28



ARENA ELEVATION - EAST / 4TH STREET

1/16" = 1'-0"

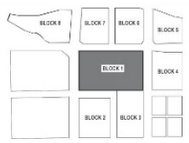
MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



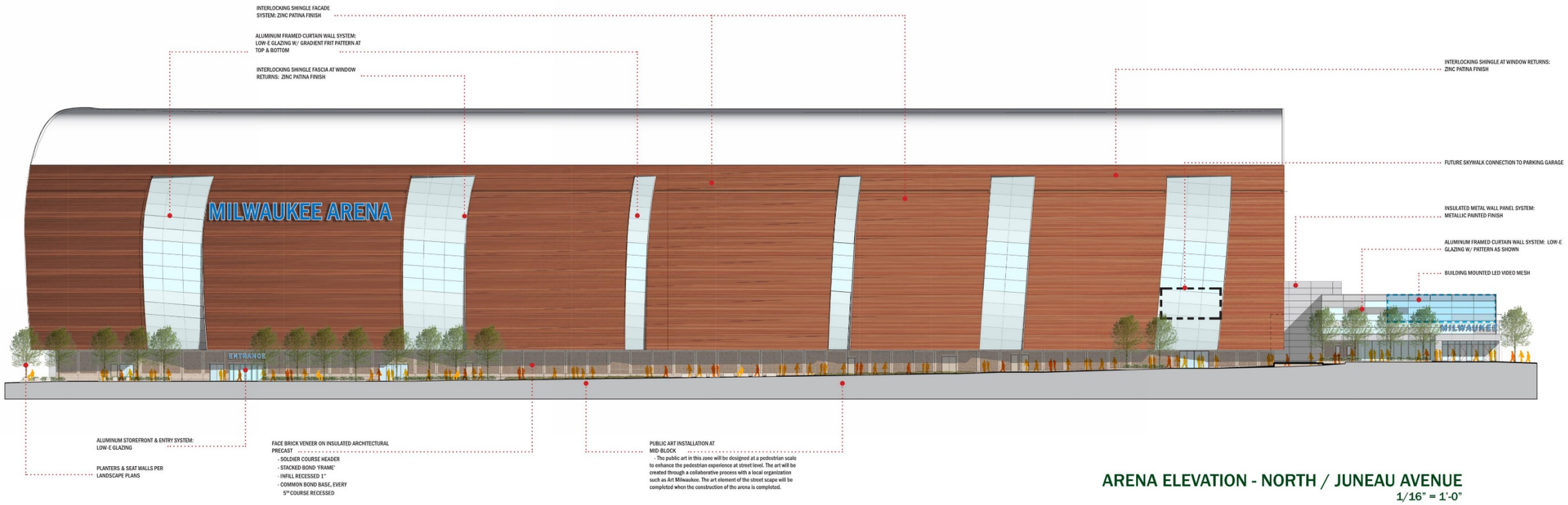
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

ARENA ELEVATION - EAST

POPULOUS HNTB eua

SHEET
A1 - 29



ARENA ELEVATION - NORTH / JUNEAU AVENUE

1/16" = 1'-0"

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

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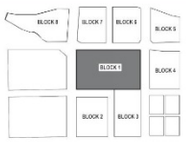


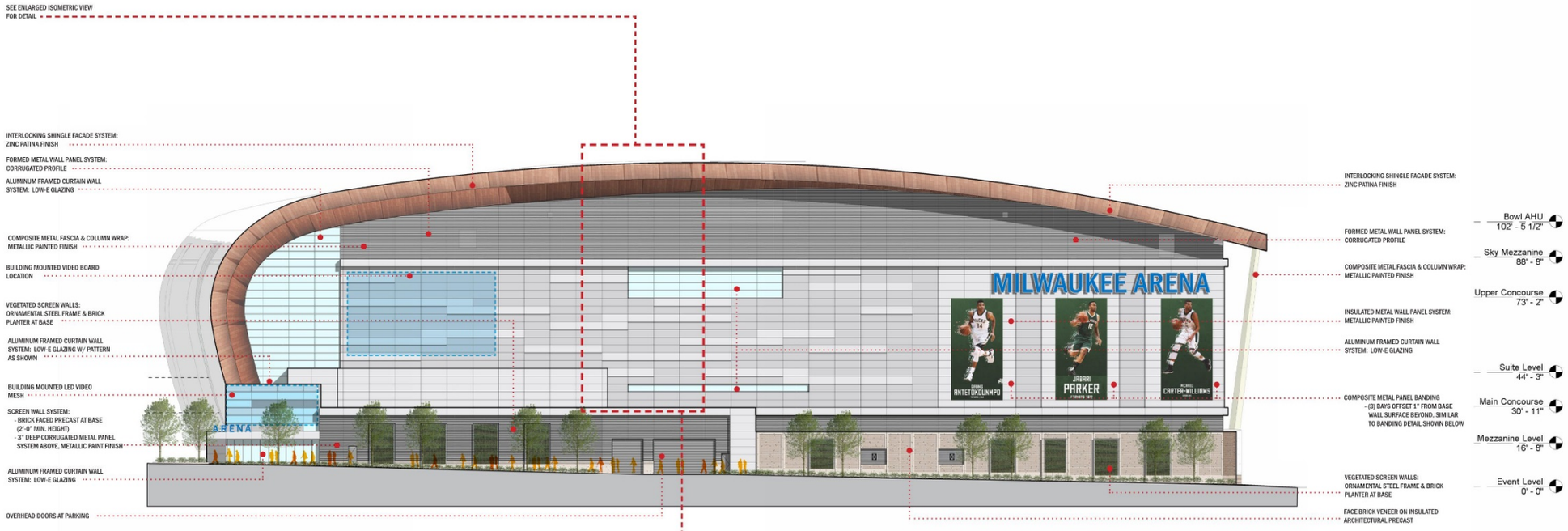
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

ARENA ELEVATION - NORTH

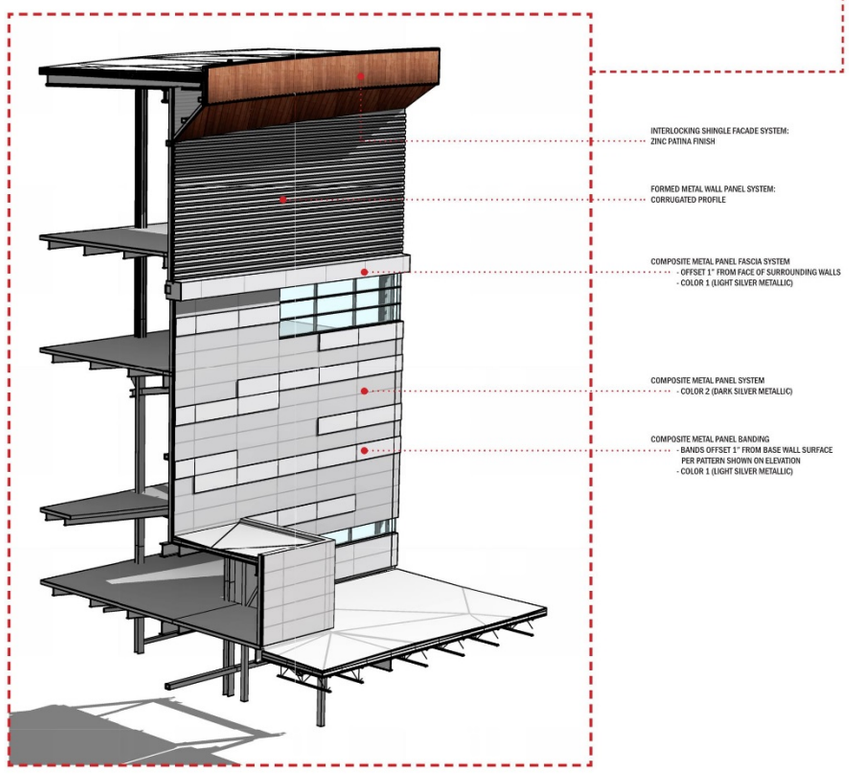
POPULOUS HNTB eua

SHEET
A1 - 30



ARENA ELEVATION - WEST / 6TH STREET

1/16" = 1'-0"



MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

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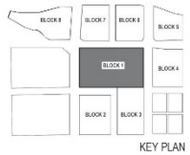

KEY PLAN

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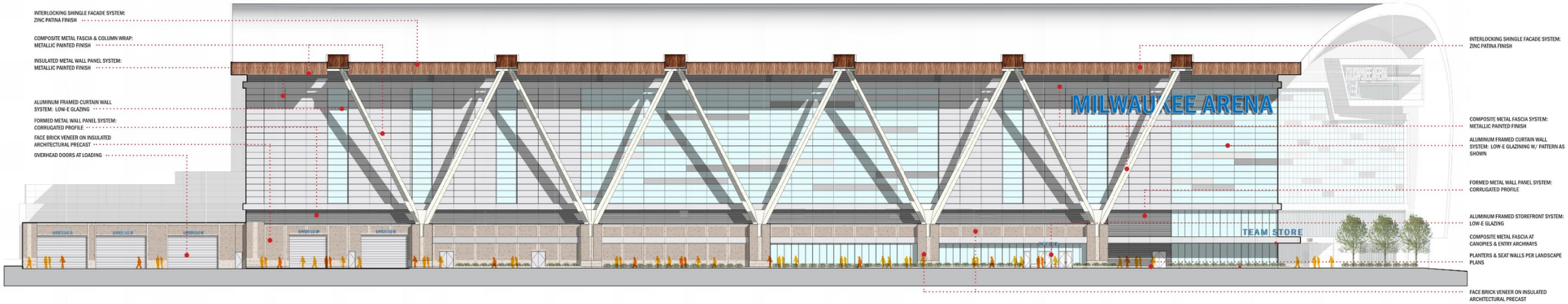
ISSUE DATE: 05.09.2016

ARENA ELEVATION - WEST

POPULOUS HNTB eua

SHEET
A1 - 31



ARENA ELEVATION - SOUTH / HIGHLAND AVENUE

1/16" = 1'-0"

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

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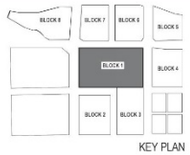


KEY PLAN

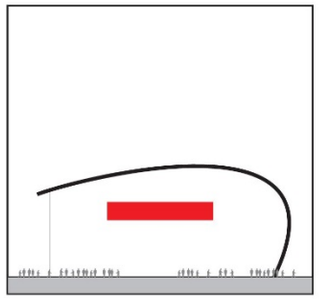
FILE NUMBER: 151653

ISSUE DATE: 05.09.2016

ARENA ELEVATION - SOUTH

POPULOUS HNTB eua

SHEET
A1 - 32



A1 STADIUM IDENTITY - BUILDING FACADE

Purpose
Project identification on side of arena

Guidelines
Form
Dimensional letters or sign cabinet

Approx. Size
106'-0"w x 7'-6"h x 1'-0"d
Final size & text TBD per sponsorship or naming rights

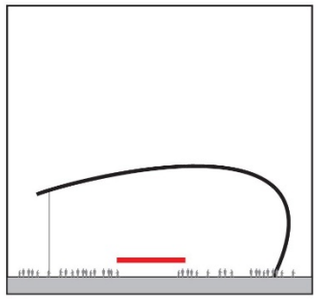
Power/Data Requirements
Electrical

Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, painted metal sign letters or cabinet w/ translucent face substrate

Installation & Foundation/Support
Sign mounted to building facade, anchored into mullion or building sub-structure as necessary

Quantity
1



A1.1 STADIUM IDENTITY - MONUMENT/LETTERS

Purpose
Project identification on site (plaza)

Guidelines
Form
Dimensional letters or sign cabinet

Approx. Size
6'-0"h x 1'-6"d Letters
Final size & text TBD per sponsorship or naming rights

Power/Data Requirements
Electrical

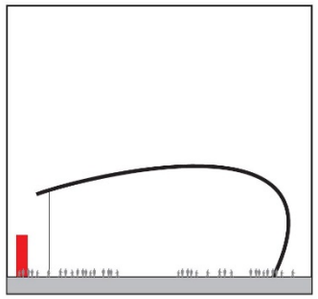
Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, painted metal sign letters or cabinet w/ translucent face substrate, painted returns

Installation & Foundation/Support
Sign mounted to ground & foundation

Quantity
1

SIGNAGE LOCATION PLAN



A2 STADIUM IDENTITY - MONUMENT/LETTERS

Purpose
Project identification on site (plaza)

Guidelines
Form
Dimensional letters or sign cabinet

Approx. Size
6'-0"w x 30'-0"h x 1'-6"d
Final size & text TBD per sponsorship or naming rights

Power/Data Requirements
Electrical

Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, painted metal sign letters or cabinet w/ translucent face substrate, painted returns

Installation & Foundation/Support
Sign mounted to ground & foundation

Quantity
1

A3 ENTRANCE IDENTITY - GENERAL

Purpose
Entrance identification

Guidelines
Form
Dimensional letters

Approx. Size
1'-0"h x 4"d Letters
Final size & text TBD per sponsorship or naming rights

Power/Data Requirements
Electrical

Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, brushed finish metal sign letters, w/ face or halo illumination

Installation & Foundation/Support
Sign mounted to entrance facade, anchored into mullion or building sub-structure as necessary

Quantity
TBD

A4 ENTRANCE IDENTITY - VIP

Purpose
Entrance identification

Guidelines
Form
Dimensional letters

Approx. Size
1'-0"h x 4"d Letters
Final size & text TBD per sponsorship or naming rights

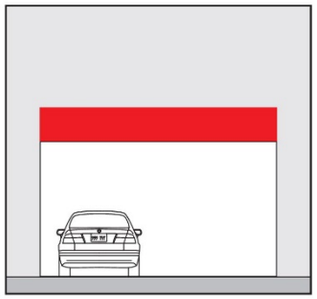
Power/Data Requirements
Electrical

Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, brushed finish metal sign letters, w/ face or halo illumination

Installation & Foundation/Support
Sign mounted to entrance facade, anchored into mullion or building sub-structure as necessary

Quantity
TBD



A6 PARKING ENTRY - OVERHEAD

Purpose
Entrance identification

Guidelines
Form
Dimensional letters or sign cabinet

Approx. Size
1'-0"h x 6"d Letters

Power/Data Requirements
Electrical

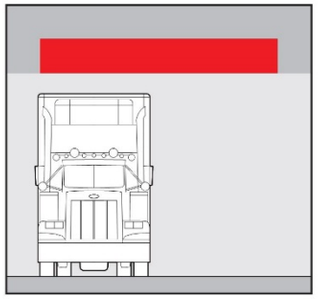
Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, brushed finish metal metal sign letters or cabinet w/ translucent face substrate

Installation & Foundation/Support
Sign mounted to entrance facade, anchored into mullion or building sub-structure as necessary

Quantity
1

EXTERIOR IDENTIFICATION



A7 LOADING DOCK IDENTITY

Purpose
Entrance identification

Guidelines
Form
Dimensional letters or sign cabinet

Approx. Size
1'-0 "h x 6"d Letters

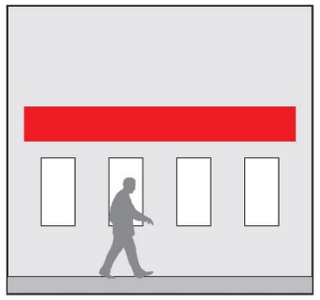
Power/Data Requirements
Electrical

Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, brushed finish metal sign letters or cabinet w/ translucent face substrate

Installation & Foundation/Support
Sign mounted to entrance facade, anchored into mullion or building sub-structure as necessary

Quantity
1



A10 TICKET OFFICE IDENTITY

Purpose
Ticket office identification

Guidelines
Form
Dimensional letters

Approx. Size
1'-0"h x 4"d Letters

Power/Data Requirements
Electrical

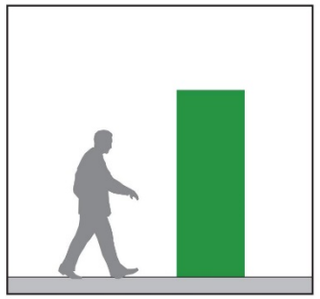
Illumination Requirements
Internal face lit or halo lit

Material, Fabrication & Finish
Fabricated, brushed finish metal sign letters, w/ face or halo illumination

Installation & Foundation/Support
Sign mounted to building facade, anchored into mullion or building sub-structure as necessary

Quantity
TBD

EXTERIOR DIRECTIONAL



B2 PREDSTRIAN DIRECTION - FREESTANDING

Purpose
Direction around site

Guidelines
Form
Dimensional sign cabinet

Approx. Size
3'-6"w x 10'-0"h x 1'-6"d

Power/Data Requirements
Electrical

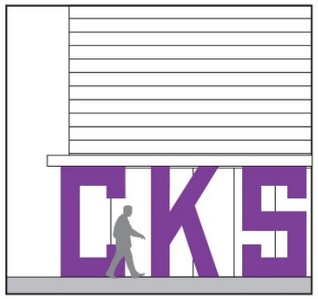
Illumination Requirements
Internal illumination

Material, Fabrication & Finish
Fabricated, painted metal sign cabinet w/ cut out pushed through letters, lit internally via LEDs

Installation & Foundation/Support
Sign mounted to ground & foundation

Quantity
TBD

EXTERIOR AMENITY



E1 TEAM STORE LETTERS

Purpose
Store Experience

Guidelines
Form
Sculptural Letters

Approx. Size
12'-0"h x 2'-0"d Letters

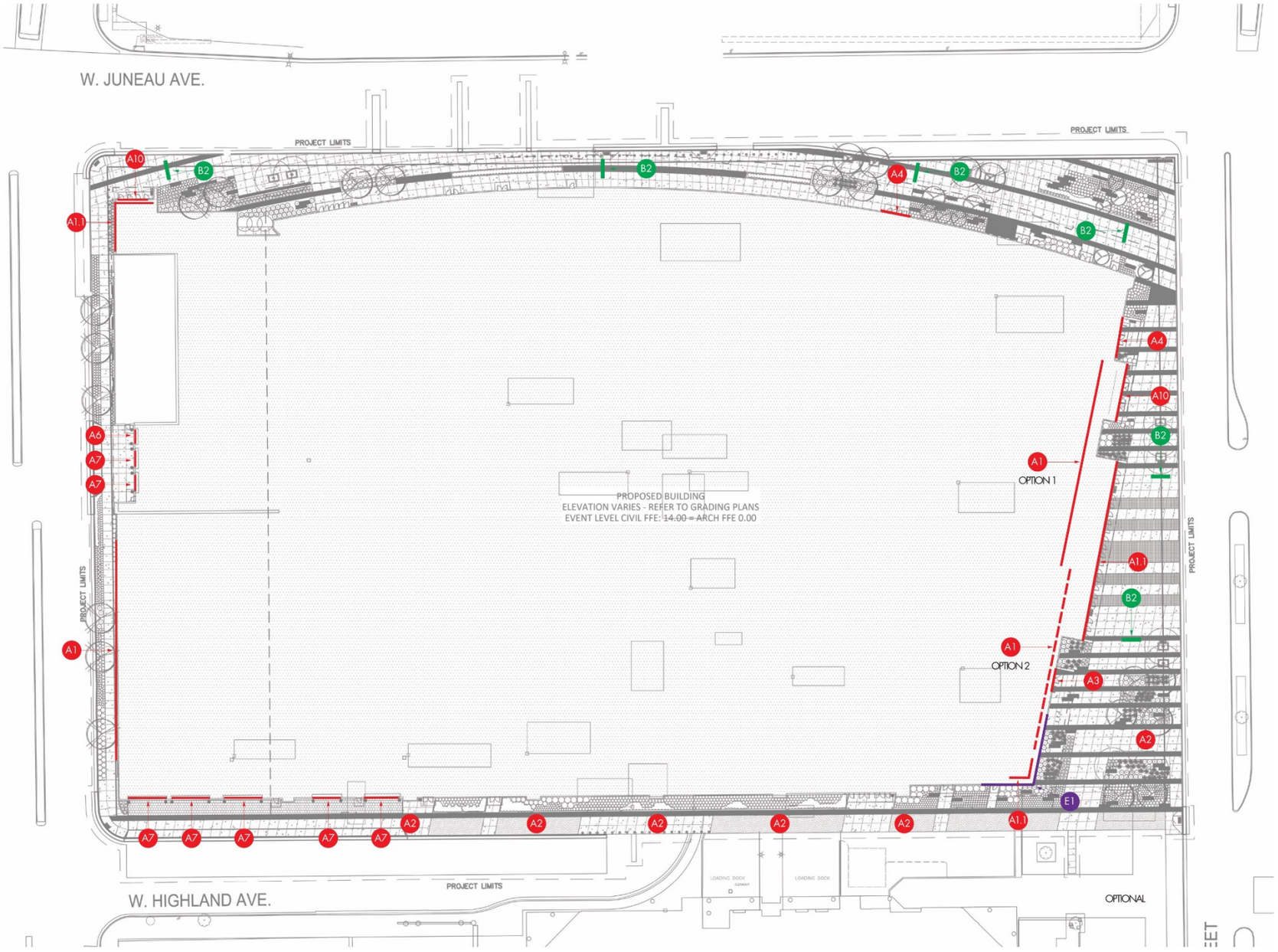
Power/Data Requirements
N/A

Illumination Requirements
N/A

Material, Fabrication & Finish
Fabricated, painted metal letters

Installation & Foundation/Support
Mounted to entrance facade, anchored into mullion or building sub-structure as necessary

Quantity
1



IDENTITY

EXTERIOR

- A1 STADIUM IDENTITY - BUILDING FACADE
- A1.1 STADIUM IDENTITY - CANOPY LETTERS
- A2 STADIUM IDENTITY - FREESTANDING
- A3 ENTRANCE IDENTITY - GENERAL
- A4 ENTRANCE IDENTITY - VIP
- A6 PARKING IDENTITY - OVERHEAD
- A7 LOADING DOCK IDENTITY
- A10 TICKET OFFICE IDENTITY

DIRECTION

EXTERIOR

- B2 PEDESTRIAN DIRECTION - FREESTANDING

AMENTITY

EXTERIOR

- E1 TEAM STORE LETTERS

N

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

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KEY PLAN

FILE NUMBER: 151653
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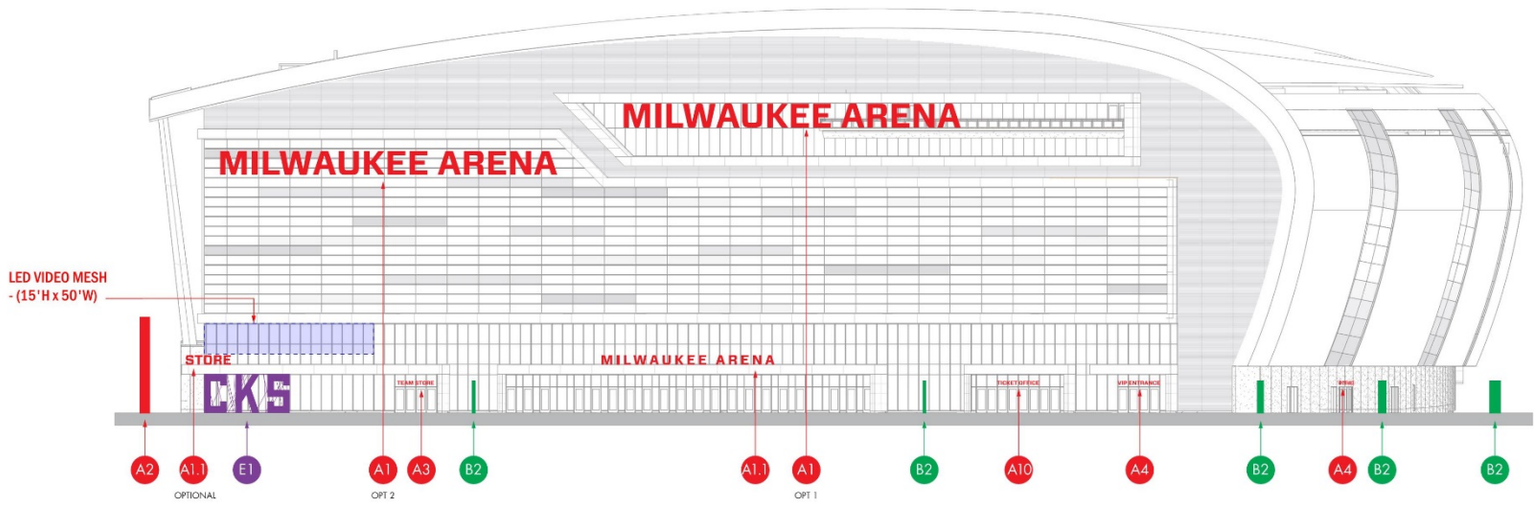
SIGN LOCATION PLAN

POPULOUS HNTB eua

SHEET
A1 - 35



ARENA ELEVATION - EAST / 4TH STREET

N.T.S.

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

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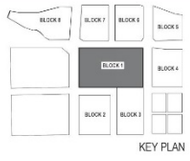

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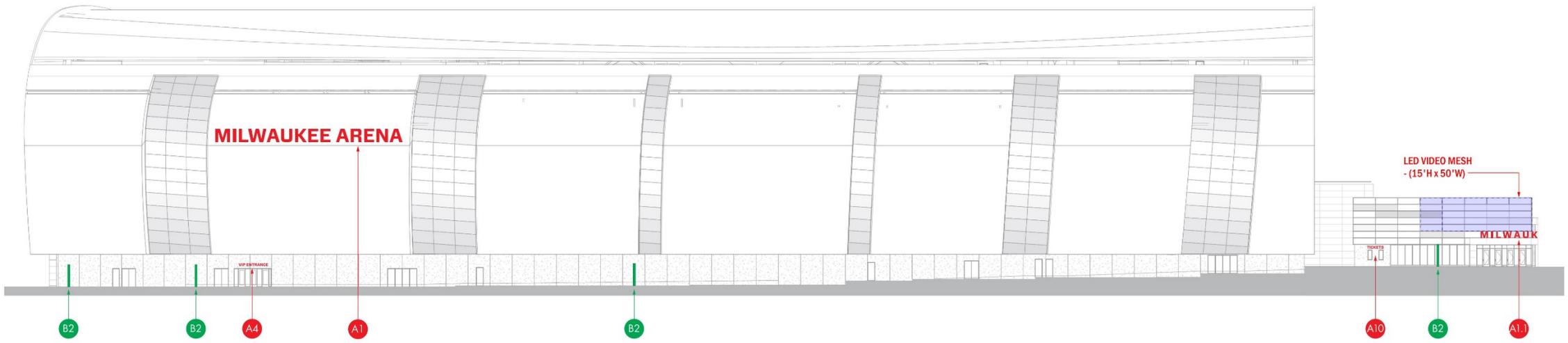
SIGNAGE ELEVATION - EAST / 4TH STREET

POPULOUS HNTB eua

SHEET
A1 - 36



ARENA ELEVATION - NORTH / JUNEAU AVENUE

N.T.S.

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

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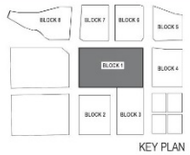

KEY PLAN

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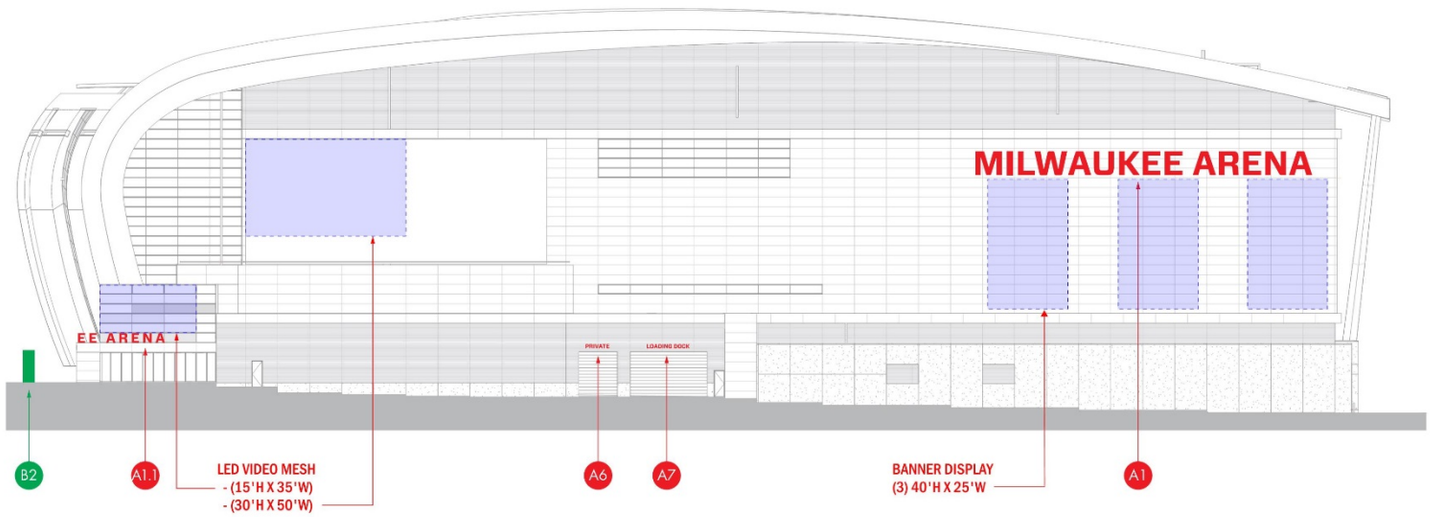
SIGNAGE ELEVATION - NORTH / JUNEAU AVENUE

POPULOUS HNTB eua

SHEET
A1 - 37



ARENA ELEVATION - WEST / 6TH STREET

N.T.S.

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

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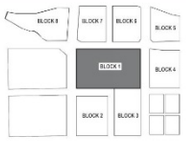

KEY PLAN

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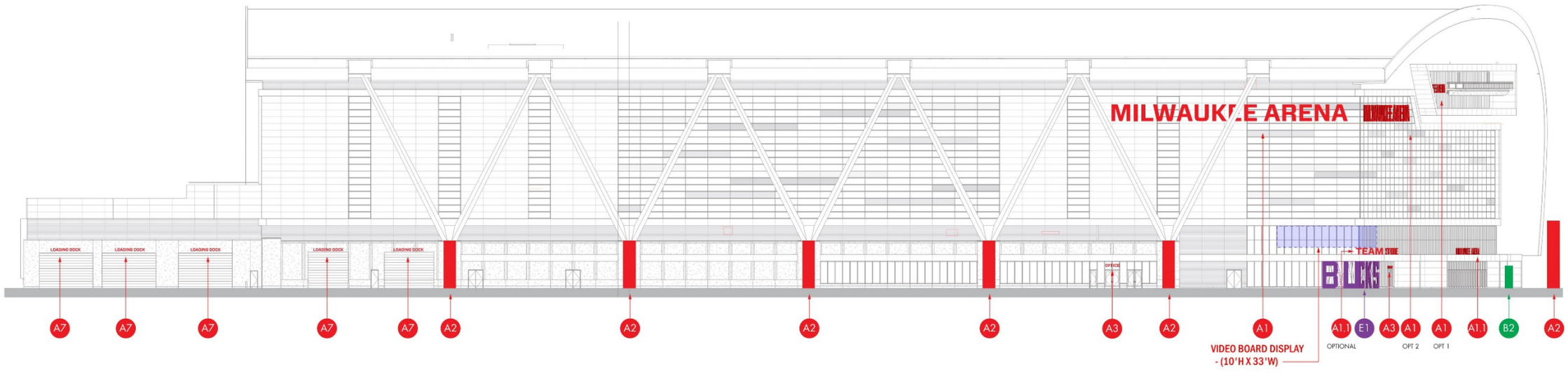
ISSUE DATE: 05.09.2016

SIGNAGE ELEVATION - WEST / 6TH STREET

POPULOUS HNTB eua

SHEET
A1 - 38



ARENA ELEVATION - SOUTH / HIGHLAND AVENUE

N.T.S.

MILWAUKEE ARENA

1111 N. 4TH STREET
MILWAUKEE WI

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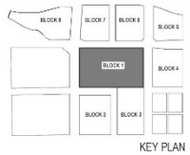

KEY PLAN

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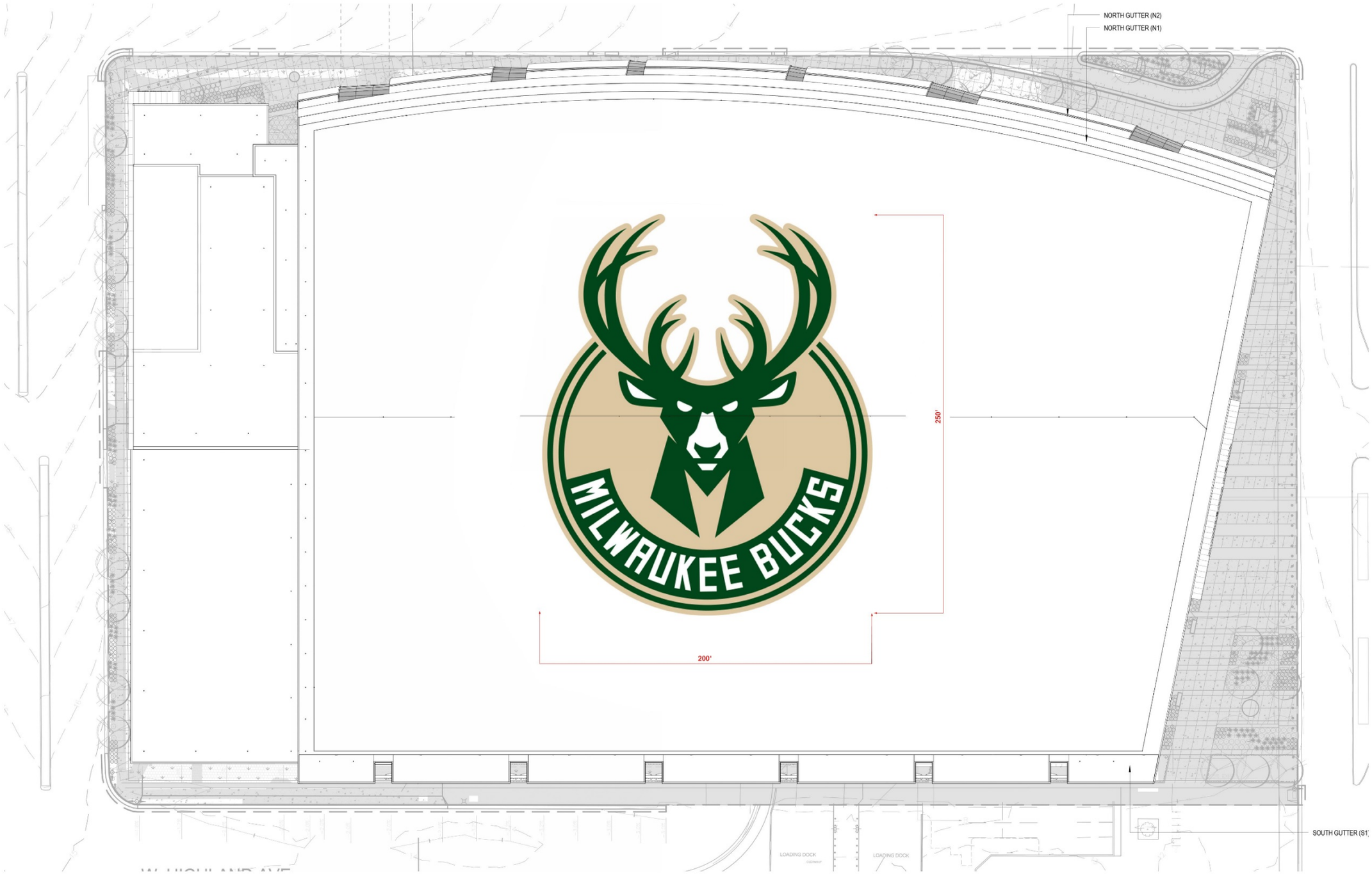
SIGNAGE ELEVATION - SOUTH / HIGHLAND AVENUE

POPULOUS HNTB eua

SHEET
A1 - 39



MILWAUKEE ARENA

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MILWAUKEE WI

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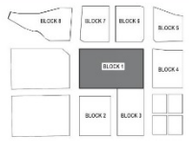


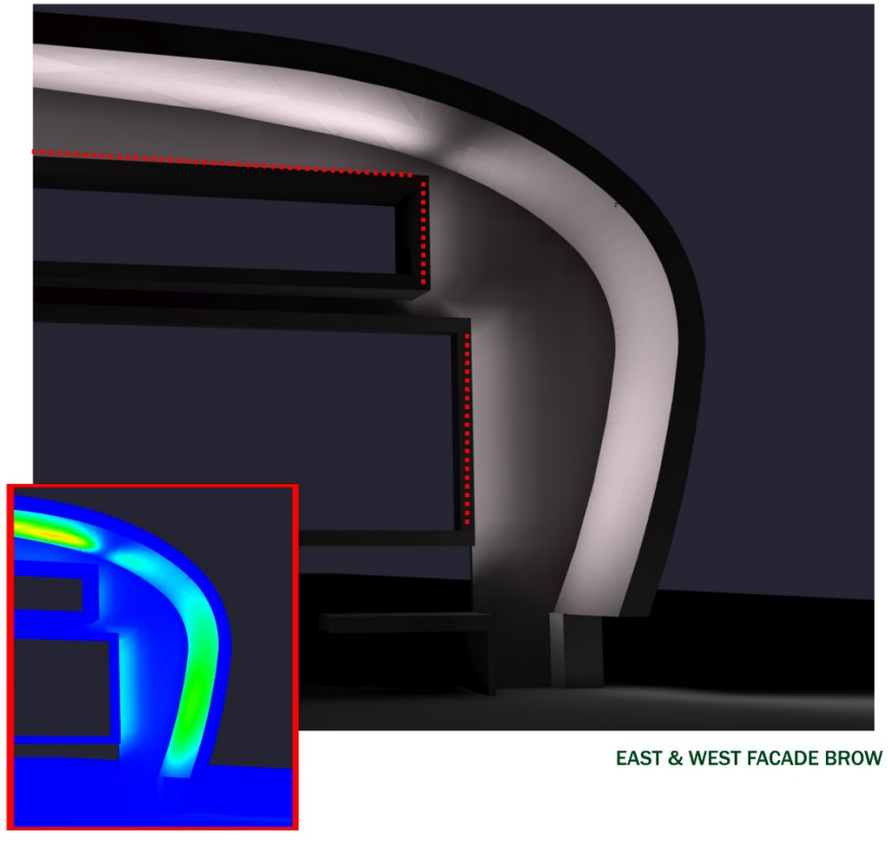
KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

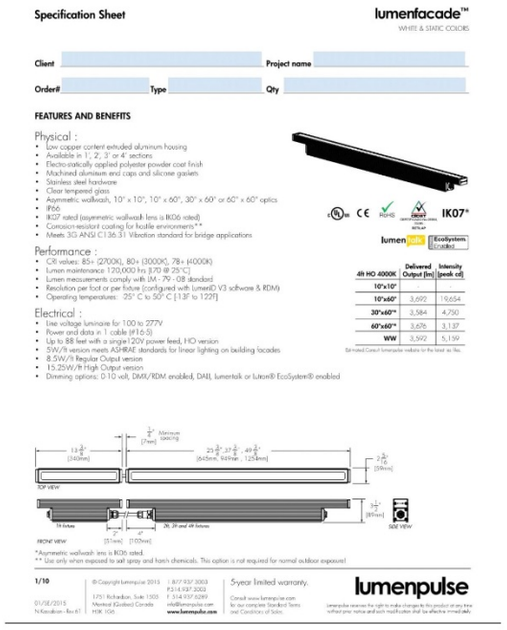
ROOF SIGN PLAN

POPULOUS HNTB eua

SHEET
A1 - 40



EAST & WEST FACADE BROW



Specification Sheet

lumenfacade™
WHITE & STATIC COLORS

Client _____ Project name _____

Order# _____ Type _____ Qty _____

FEATURES AND BENEFITS

Physical :
- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Machined aluminum end caps and silicone gaskets
- Stainless steel hardware
- Clear tempered glass
- Asymmetric wallwash, 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- IP66
- IK07 rated (asymmetric wallwash lens is IK06 rated)
- Corrosion-resistant coating for hostile environments**
- Meets 3G ANSI C136.31 Vibration standard for bridge applications

Performance :
- CRI values: 85+ (2700K), 80+ (3000K), 78+ (4000K)
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with IM - 79 - 08 standard
- Resolution per foot or per fixture (configured with LumenID V3 software & RDM)
- Operating temperatures: -25° C to 50° C [13F to 122F]

Electrical :
- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable (#16-5)
- Up to 88 feet with a single120V power feed, HO version
- 5W/ft versions meets ASHRAE standards for linear lighting on building facades
- 8.5W/ft Regular Output version
- 15.25W/ft High Output version
- Dimming options: 0-10 volt, DMX/RDM enabled, DALI, lumentalk or Luxon® EcoSystem® enabled

IK07*

lumen | Ecosystems EcoBlaz

4ft HO 4000K	Delivered Output [lm]	Intensity [peak cd]
10°x10°		
10°x60°	3,692	19,654
30°x60°*	3,584	4,750
60°x60°*	3,676	3,137
WW	3,592	5,199

Est-rated Consult lumenpulse website for the latest as-file.

*Asymmetric wallwash lens is IK06 rated.
** Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposures.

1/10
01/05/2015
N-Resolution - Rev 01

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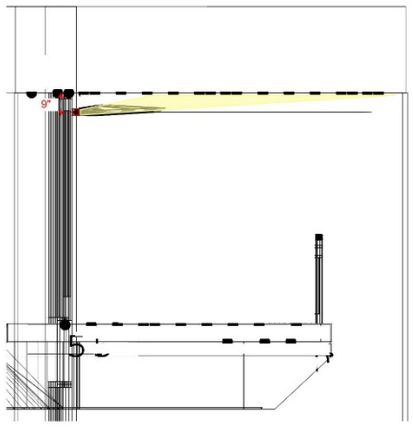
1751 Richardson, Suite 1505
Montréal (Québec) Canada
H3K 1G6

1 877 937 3003
P 514 937 3003
F 514 937 0289
info@lumenpulse.com
www.lumenpulse.com

5year limited warranty.
Consult www.lumenpulse.com for our complete Standard Terms and Conditions of Sales.

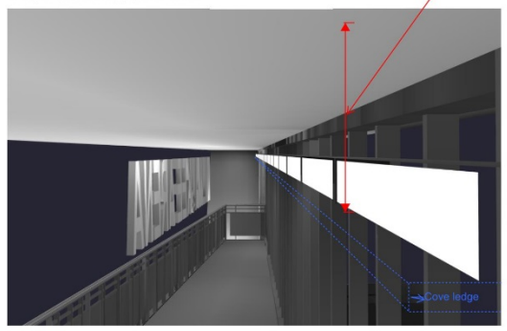
lumenpulse
Lumenpulse reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.

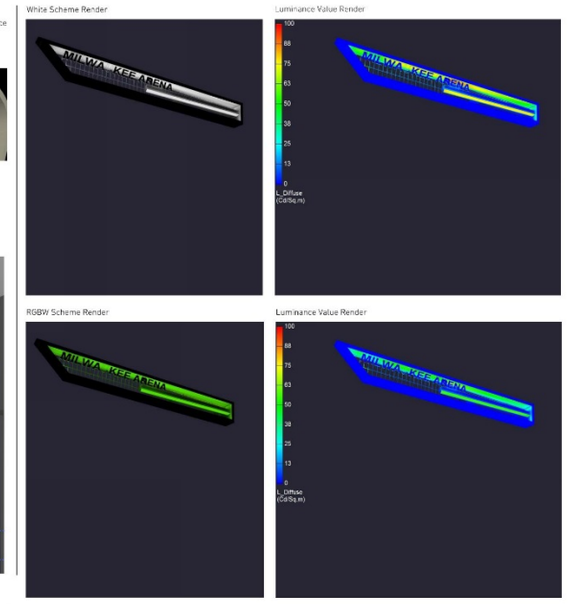
TYPE S1, S1A
WHITE & RGB WASH



- linears mounted at the bottom surface to illuminate the left side top surface and the bottom surface of the balcony
- linears mounted in exterior light shelf over the balcony to wash the ceiling

Perspective on balcony up near fixtures





EAST FACADE -
PANORAMA CLUB ACCENT

EXTERIOR ARCHITECTURAL LED LINEAR LIGHTING

INSIGHT

MEDLEY® VIEW II
EXTERIOR, INTEGRAL POWER SUPPLIES
RGB, RGB+W, RGBW, RGBWWA COLOR CHANGING

ITEM	SPECIFICATION					
LIGHT SOURCE	6WFT, 8WFT, 12WFT, 17WFT					
DISTRIBTION	BEAM ANGLES	7°, 15°, 30°, 45°, 100°				
	COLOR	RGB, RGBW, RGBWWA, RGB+W				
OUTPUT		RGB (COLOR CHANGING) (4 foot Fixture)				
		FIXTURE / WATTAGE	OPTICS	LUMENS	EFFICACY	MAX CANDELA
	- TOTAL POWER CONSUMPTION (WR)	9 (12.1 W/ft)	12°	1044	22 lm/W	5104
	- LUMENS	17 (18.9 W/ft)	7°	2267	30 lm/W	25313
	- EFFICACY (lm/W)					
	- MAX CANDELA (CD / m²)					
	LUMEN MAINTENANCE	RGB: 75,000 hrs L70				
ELECTRICAL	AC LINE VOLTAGE	120V OR 277V				
	POWER SUPPLY	INTEGRAL TO THE LUMINAIRE				
CONTROL	DMX Ready					
PHYSICAL	HOUSING	Aluminum extrusion with cast aluminum end caps, powder-coat finish				
	DIMENSIONS	HEIGHT X WIDTH X LENGTH: 3-7/8" X 2-3/4" X 12'1 24" / 36" / 48"				
	LENS	Tempered glass				
	OPERATING TEMPERATURE	-20° C to 40° C				
CERTIFICATION	CERTIFICATION	ETL approved for wet locations, IP 67 Rated				
WARRANTY	5 YEAR	Limited				
All MEDLEY® products are tested to IES LM-79, LM-80 and ANSI C78.377A standards						

6W & 9W RGB Tri-chromatic
- Superior color saturation
- Eliminates individual colored dots (red dot, green dot & blue dot)
- 9W RGB
- Low wattage RGB
- Ideal for exterior cove, wash or direct view applications
- 9W RGB
- Ideal for line of site architectural applications to enhance the wall/facade

17W RGB Discreet
- Individual colored diodes (Red, Green & Blue) for maximum peak candela
- Ideal for large facades/walls.

17W RGBW Quad-Chromatic
- Ideal for line of site architectural applications to enhance the wall/facade
- Added white component

17W RGBW Discreet
- Individual colored diodes (red, green, blue and white) for maximum peak candela
- Ideal for large facades/walls

12W RGBWWA
- Delivers the complete color spectrum by combining red, green, blue, cool white, warm white and amber
- The perfect choice when for a smooth algorithm and a full spectrum.

12W RGB+W
Delivers 75 lumens per watt (8 w/ft) of white light for general lighting with the added benefit of the RGB-tri chip (8 w/ft)

Ideal for archi-tainment, coves and accent lighting

INSIGHT
Tel: 905-345-0888
www.insightlighting.com
10/22/15
Page 1 of 9

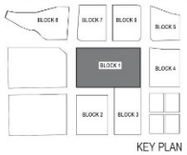
TYPE S3
WHITE & RGB WASH

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

FILE NUMBER: 151653
ISSUE DATE: 05.09.2016

FACADE FEATURE LIGHTING CONCEPTS - EAST ELEVATION

POPULOUS HNTB eua

SHEET
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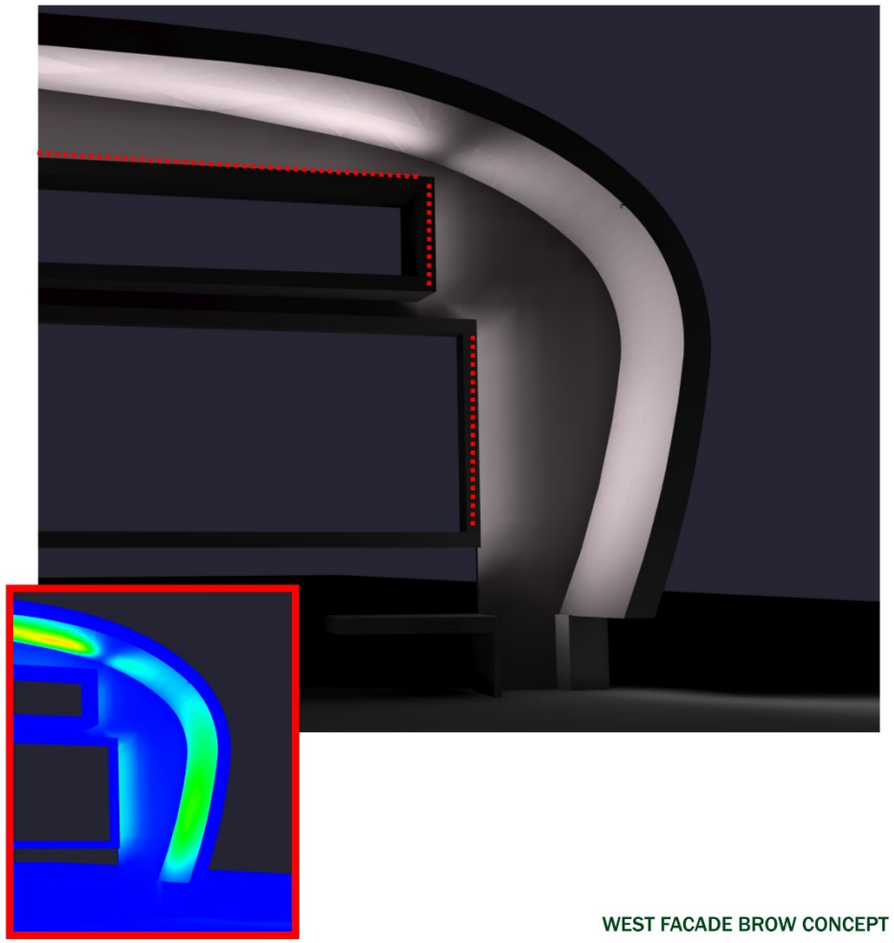

WEST FACADE BROW CONCEPT

FEATURES AND BENEFITS

Physical :
- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Machined aluminum end caps and silicone gaskets
- Stainless steel hardware
- Standard straight loader cable output, bottom feed
- Clear tempered glass
- Asymmetric wallwash 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- IP66
- IK07 rated (asymmetric wallwash lens is IK06 rated)
- Meets 3G ANSI C136.31 Vibration standard for bridge applications
- Corrosion-resistant coating for hostile environments**

Performance :
- Minimum 1fc (10.7 lux) @ 108 feet (33m) distance (DWH full output, 4' unit, 10° x 60° optic)
- Dynamic Warm variable color temperature: 12 LEDs/ft (4x 2200K, 4x 2700K, 4x 3000K)
- Dynamic White variable color temperature: 12 LEDs/ft (4x 2700K, 4x 4000K, 4x 6500K)
- Lumen maintenance L70 @ 25°C - 120,000 hrs
- Resolution per foot or per fixture (configured with LumenID V3 software & RDM)
- Lumen measurements comply with LM - 79 - 08 standard
- Operating temperatures: -25° C to 50° C [-13F to 122F]

Electrical :
- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable (#16-5)
- Up to 64 feet with 1 power & data feed
- Standard 10ft /3m cord
- 17.25W/ft
- Dimming options: dim to warm via 0-10V (DWW only), DMX/RDM enabled dim to warm via single channel (DWW only) or DMX/RDM enabled 3-channel color temperature control

IK07*

DMX/RDM
3-channel control

4ft, 10°x60°	Delivered Output [lm]	Intensity [peak cd]	Power [W]	CCT* [K]
DWW	2,144	9,260	69	2,600
DWH	2,599	11,696	69	4,000

Dim to Warm via DMX/RDM
Single channel control (DMX/RDM1)

DWW	2,039	7,871	55	2,700

Dim to Warm via 0-10V
(DIM/DTW)

DWW	2,037	7,863	55	2,700

*Tested at full output.

TOP VIEW

$13\frac{3}{8}$*, $25\frac{3}{8}$*, $37\frac{3}{8}$*, $49\frac{3}{8}$*
[340mm,645mm,949mm,1254mm]

4** [102mm]

FRONT VIEW

$2\frac{5}{16}$* [58mm]

$3\frac{1}{2}$* [89mm]

SIDE VIEW

* $6\frac{11}{16}$* [169mm] on 1ft configuration

*Asymmetric wallwash lens is IK06 rated.
** Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

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1751 Richardson, Suite 1505
1.877.937.3003
P.514.937.3003
F.514.937.6289

5-year limited warranty.
Consult www.lumenpulse.com

lumenpulse

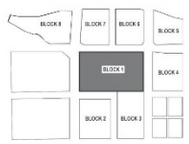
TYPE S4 -
GREEN SCREEN WALLS

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION
1	03.17.2016	ISSUED
2	04.04.2016	REVISED
3	05.09.2016	REVISED



KEY PLAN

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ISSUE DATE: 05.09.2016

FACADE FEATURE LIGHTING CONCEPTS -
WEST ELEVATION

POPULOUS HNTB eua

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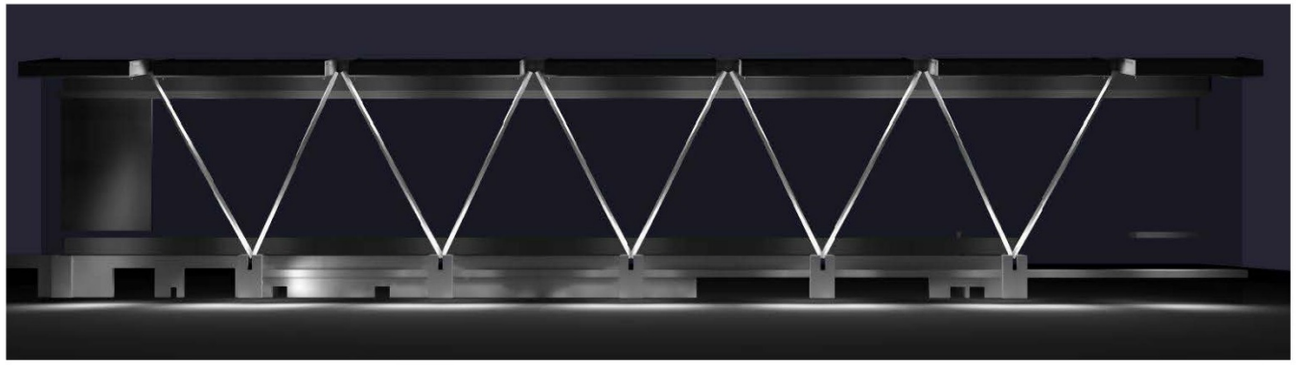
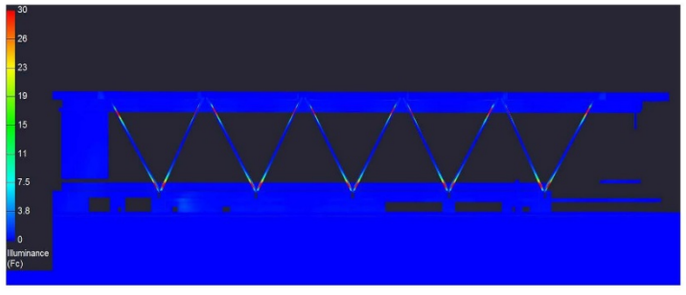
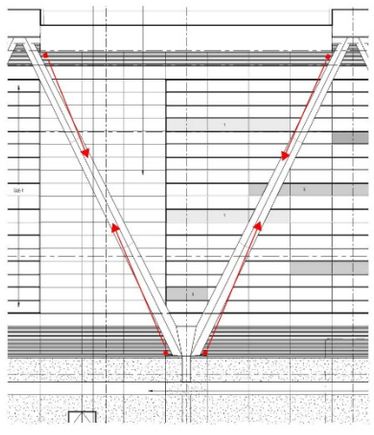
Grayscale Render of South Facade

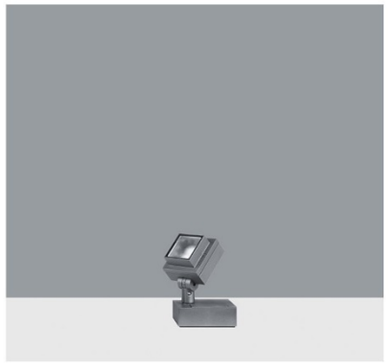


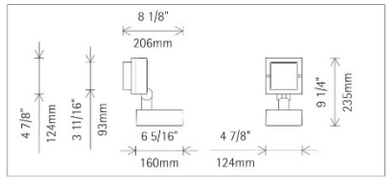
Illuminance levels render of South Facade

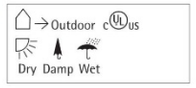


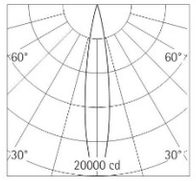


MOUNTING LOCATIONS









LED 18W 2475lm 4000K neutral white

h(ft)	E(fc)	D
		16"
3	2141	0'10"
6	535	1'8"
9	238	2'6"
12	134	3'4"
15	86	4'3"

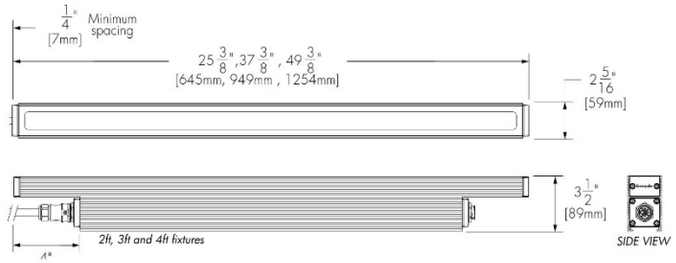
34088.023 Graphit m
LED 18W 2475lm 4000K neutral white
Dimmable
Version 8
Spherolit lens, spot

Product description
Housing, hinge and mounting plate: corrosion-resistant, cast aluminum, No-Rinse surface treatment. Double powder-coated. Optimized surface for reduced accumulation of dirt. Hinge with scale and internal wiring.
Housing 130° tiltable, rotatable through 360°.
Electronic control gear, 60Hz, 120V dimmable, 277V switchable. 2 cable entries. Through-wiring possible. 3-pole terminal block.
LED module: high-power LEDs on metal-core PCB. SDCM<2. CRI>80. L80/B10 50000h. Collimating lens made of optical polymer.
Compact light head with non-reflecting safety glass. corrosion-resistant cast aluminum, double powder-coated.
Suitable for wet location (IP65): dust-proof and water jet-proof.
120V: Dimming with external dimmers possible (trailing edge).
Weight 5.07lbs / 2.30kg
Housing temperature 128°F / 53°C

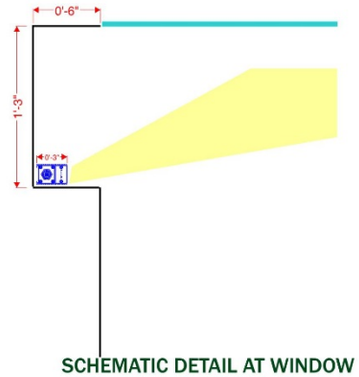
Technical data

Luminous flux of the luminaire	1893lm
Connected load	20W
Luminous efficacy	95lm/W
Color deviation	SDCM<2
Color rendition index	CRI>80
Lumen maintenance	L80/B10 50000h
LED failure rate	0.1% 50000h
Temperature on the cover glass	99°F / 37°C

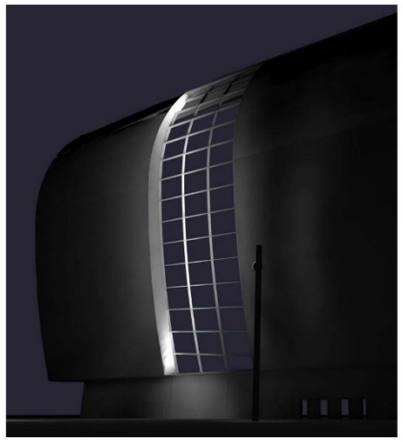
TYPE S4 -
SOUTH V STRUCTURE FACADE FIXTURE



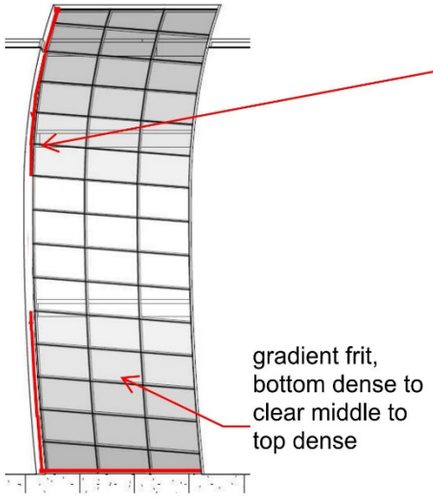
WHITE LINEAR LED - 10 X 60 OPTIC



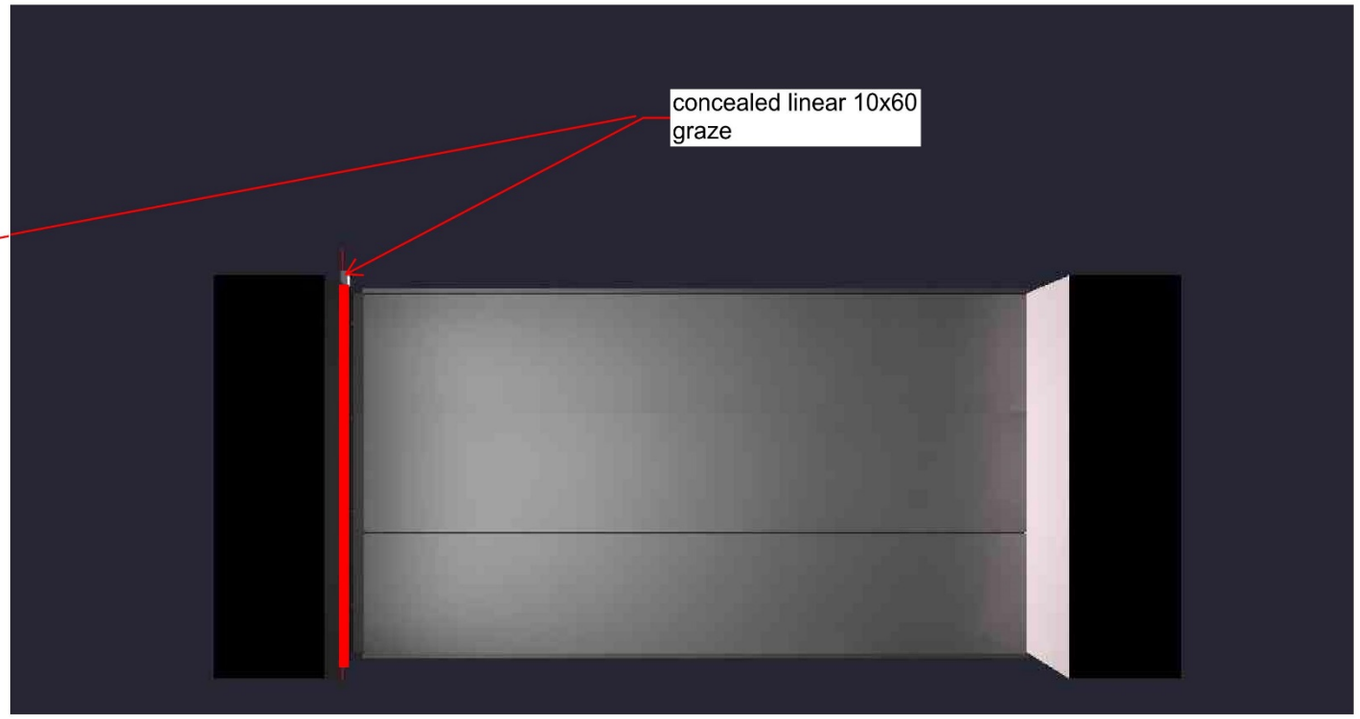
SCHEMATIC DETAIL AT WINDOW



PHOTOMETRIC RENDERING
TYPICAL ALL WINDOWS ON NORTH FACADE



MOUNTING LOCATIONS



PHOTOMETRIC RENDERING
OF LIGHT GRAZE AT FRIT DENSITY

TYPE S1
NORTH WINDOW GRAZING FIXTURE

MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

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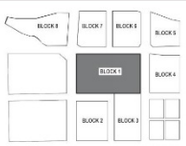

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FACADE FEATURE LIGHTING CONCEPTS - NORTH ELEVATION

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