

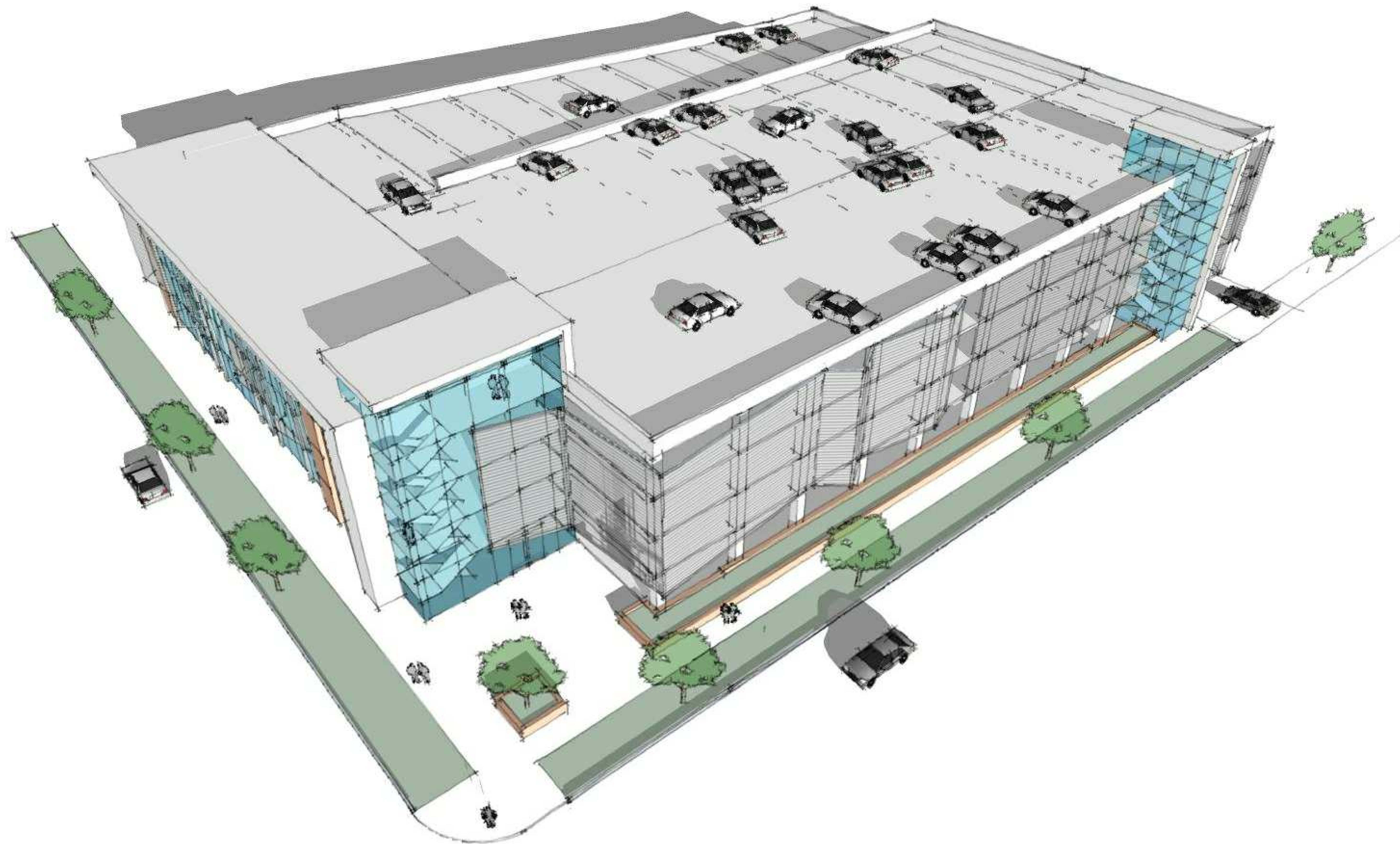


CITY OF MADISON PARKING UTILITY CAPITOL EAST PARKING GARAGE

PROJECT DESCRIPTION: NEW GARAGE AND COMMERCIAL
SPACE FOR THE EAST DISTRICT OF MADISON WISCONSIN

CITY CONTRACT NUMBER _____
SCHEMATIC DESIGN DOCUMENTS

03-15-2017

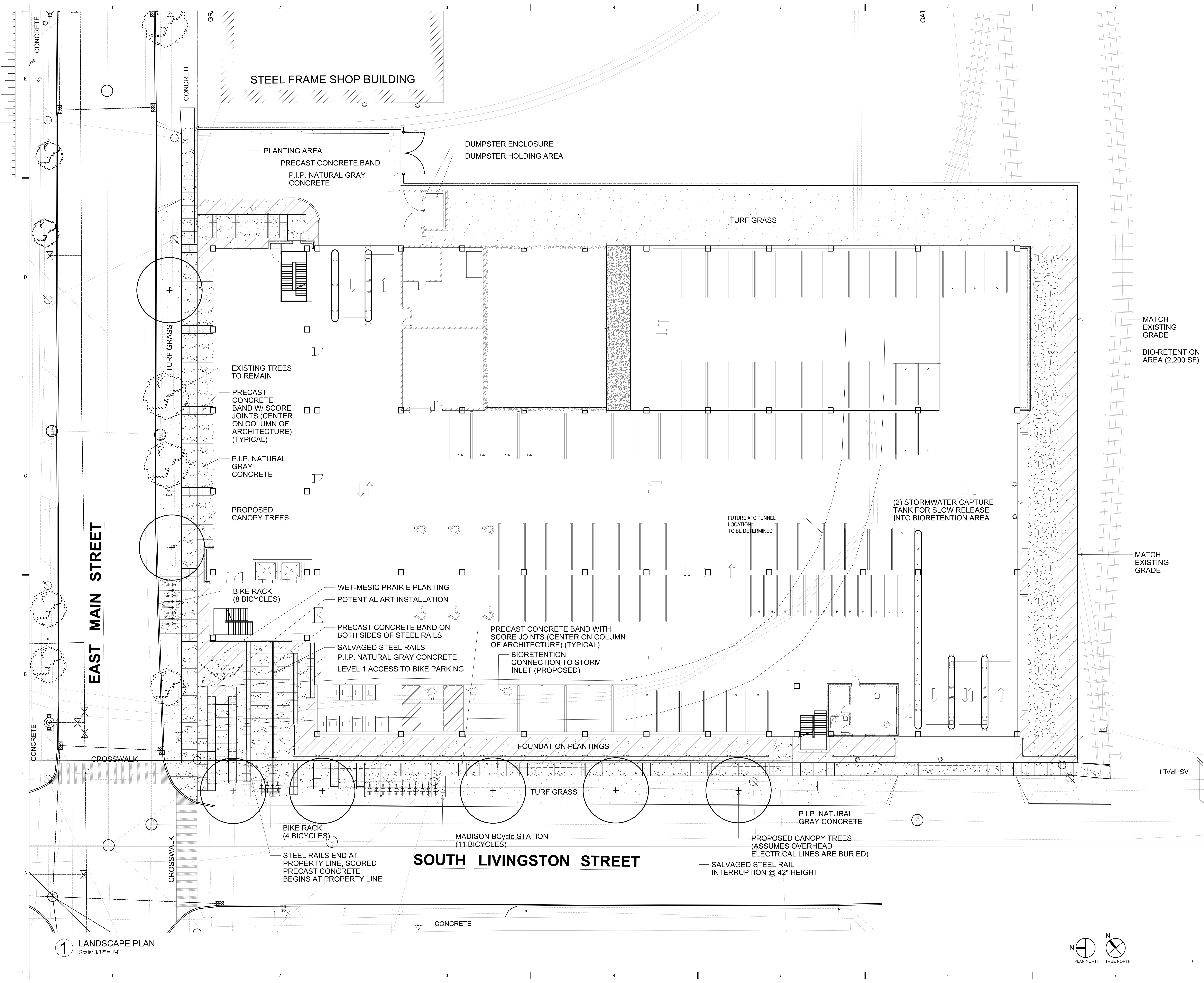


B | W | B | R

GRÄEF

KEN SAIKI DESIGN
LANDSCAPE
ARCHITECTS





1 01 Code
A-091 1/16" = 1'-0"

2 02 Code
A-091 1/16" = 1'-0"

CODE SUMMARY

PROJECT DESCRIPTION	
(description)	
GENERAL TYPE OF PROJECT	YES NO
NEW BUILDING	● ●
ADDITION	● ●
REMODEL	● ●
AUTHORITY HAVING JURISDICTION (A/HJ)	YES NO
CITY OF MADISON	● ●
STATE OF WISCONSIN	● ●
DEPARTMENT OF HEALTH (DOH)	● ●
THE JOINT COMMISSION (TJC)	● ●
CENTER FOR MEDICARE/MEDICAID SERVICES (CMS)	● ●

APPLICABLE REGULATIONS	YES	NO
2009 IBC / 2011 WISCONSIN COMMERCIAL BUILDING CODE	●	
2000 NFPA 101 (LIFE SAFETY CODE)		●
ANSI A117.1.03		●
MIN ACC CODE '15	●	
ADAAG	●	
MIN STATE RULES		●
2010 FGI GUIDELINES		●

OCCUPANCY CLASSIFICATION(S)				
OCCUPANCIES	(IBC CH 3 & 4) (LSC CH 12-42)	(input)	YES	NO
CHANGE OF OCCUPANCY?	(If Remodelling)			●

TYPE(S) OF CONSTRUCTION	
CONSTRUCTION TYPE(S)	IBC (Chapter 6) <i>(input)</i> LSC (Chapter ???) <i>(input)</i>
AREA SEPARATIONS / FIRE WALLS	SEE CODE PLANS

ALLOWABLE AREA PER FLOOR		(Section 506)
BASIC ALLOWABLE AREA (Permissible Size)		(In Sqm)
FRONTAGE INCREASE	$I_f = 100 \left(\frac{F}{P} - 0.25 \right) \frac{W}{30}$ OR USE $\left(\frac{\text{Perimeter with } > 30' \text{ of open}}{\text{Total perimeter}} \right) - 0.25 \times \text{BASIC ALLOWABLE}$	+
SPRINKLER INCREASE (Choose One)		YES/NO
BASIC ALLOWABLE AREA X 0.1 (HOUR CONSTRUCTION SUST)		●
BASIC ALLOWABLE AREA X 2 (MULTIPLE STORY BUILDING)		●
BASIC ALLOWABLE AREA X 3 (SINGLE STORY BUILDING)		●
TOTAL ALLOWABLE AREA/FLOOR		(In Sqm)

ACTUAL AREA PER FLOOR	ACTUAL	ALLOWABLE (from above)
FIRST FLOOR	(input)	(input)
SECOND FLOOR	(input)	(input)
TOTAL		

BUILDING HEIGHT		YES NO
ONE HOUR SPRINKLER SUBSET	(Table 501, footcandle 3)	☐ ☒
EXTRA FLOOR HEIGHT FOR SPRINKLER	(ISA-2)	☐ ☒
	ACTUAL HEIGHT	ALLOWABLE HEIGHT
(Table 503)	FEET <i>(input)</i>	<i>(input)</i>
(Table 503)	STORIES <i>(input)</i>	<i>(input)</i>

EGRESS		YES NO
AREAS OF REFUGE REQUIRED		●
ACCESSIBLE MEANS OF EGRESS ("TWO") REQUIRED		
ELEVATOR REQUIRED AS MEANS OF EGRESS		
MEANS OF EGRESS CAPACITY (width in inches)	(Inq)	

OCCUPANT LOAD OF BUILDING			
AREA/LOCATION	ACTUAL AREA	SF/OCCUPANT	OCCUPANTS
FIRST LEVEL	(input)	(input, ie 15)	(input)
SECOND LEVEL	(input)		
FIRST LEVEL	(input)		
SECOND LEVEL	(input)		
TOTAL BUILDING OCCUPANT LOAD:			(input)

PLUMBING FIXTURES			
	PROVIDED	RCD	FACTOR (IRC CH 12)
TOILETS	--	-- M _ F	1/25 for first 50 occupants, then 1/50
URINALS	--	--	--
LAVATORIES	--	--	1/40 for first 10 occupants, then 1/60
DRINKING FOUNTAINS	--	--	1/100 occupants
SERVICE SINKS	--	--	--

FIRE-RESISTIVE REQUIREMENTS		COMPLY WITH
	ROUTING PER	TEST
STRUCTURAL FRAME		
COLUMNS	(ingap)	(ingap)
GIRDERS	(ingap)	(ingap)
TRUSSES	(ingap)	(ingap)
BEARING WALLS		
EXTERIOR BEARING WALLS	(ingap)	(ingap)
INTERIOR BEARING WALLS	(ingap)	(ingap)
NONBEARING WALLS AND PARTITIONS		
COVER	See Code and Section 504.5	
INTERIOR	See Code Plans, PC Plans, & Spec	
FLOOR CONSTRUCTION		
FLOORING/ASSEMBLY	(ingap)	(ingap)
PRIME & SEC. FLOOR BEAMS, JOISTS	(ingap)	(ingap)
ROOF CONSTRUCTION		
ROOFCEILING/ASSEMBLY	(ingap)	(ingap)
PRIME & SEC. ROOF BEAMS, JOISTS	(ingap)	(ingap)
OTHER		
SHAFTS AND PASSAGeways	(ingap)	(ingap)
EXTERIOR DOORS AND WINDOWS	(ingap)	(ingap)

MISCELLANEOUS		YES	NO
FIRE RESISTIVE CORRIDORS?	(IBC Table 501.6)		●
SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS)	(IBC 403.3)		●
INCIDENTAL USE AREA RATING(S)	(IBC Table 508.2.5) (others in USC 11.2 Occupancy)		SEE PLAN

OCCUPANCY	EXITS		CORRIDORS		ROOMS (UND)	
	Walls & Ceiling	Flooring*	Walls & Ceiling	Flooring*	Walls & Ceiling	Flooring*
A-2	N/A	N/A	B	DOC-FF-1	C	DOC-FF-1
B	N/A	N/A	C	DOC-FF-1	C	DOC-FF-1
I-2	N/A	N/A	B	Class II	B**	DOC-FF-1

* Not applicable to non-flush flooring materials
 ** Class I materials permitted in administrative spaces and other spaces of capacity of 5-4 occupants

ADDITIONAL NOTES

CODE PLAN SYMBOLS LEGEND

FIRE RESISTANCE RATINGS		Notes (EN 1363-1)
	SHOKE PARTITION	
	1HC70 CONST. OF CONCRETE WALLS 4.5C(X)3.0	
	FIRE PARTITION	
	CONCRETE WALLS (EC 708)	
	1HR FIRE RATED ASSEMBLY	
	NON-DIFFUSIBLE (EC 708:2.2)	
	PROTECTION OF HAZARDOUS (EC 708:3.2)	
	1HR FIRE RATED ASSEMBLY	
	FIRE DAMPER USUALLY REQUIRED	
	1HR FIRE RATED ASSEMBLY WITH SMOKE PROTECTION	
	FIRE AND SMOKE DAMPER USUALLY REQUIRED	
	2HR FIRE RATED ASSEMBLY	
	FIRE DAMPER USUALLY REQUIRED	
	2HR FIRE RATED ASSEMBLY WITH SMOKE PROTECTION	
	FIRE AND SMOKE DAMPER USUALLY REQUIRED	
	3HR FIRE RATED ASSEMBLY	
	FIRE DAMPER USUALLY REQUIRED	
	3HR FIRE RATED ASSEMBLY WITH SMOKE PROTECTION	
	FIRE AND SMOKE DAMPER USUALLY REQUIRED	
	FIRE WALL	
	FW/FW FW/FW FW/FW (EC 708)	

MEANS OF EGRESS	EA	EXIT ACCESS
	EX	EXIT
	ED	EXIT DISCHARGE
	HE	HORIZONTAL EXIT
	DE	DELAYED EGRESS

MISCELLANEOUS	FE	FIRE EXTINGUISHER
	FEC	FIRE EXTINGUISHER CABINET
	FV	FIRE VALVE
	FVC	FIRE VALVE CABINET
	---	PROJECT LIMITS LINE

WALL CLASSIFICATION		SMOKE RESISTANT
		SBF IRC 710, 716.5.5
		<i>— remove floors per year project</i>
	H H H H H H H H	HORIZONTAL EXIT
		SEE IRC 1025 FOR I-3 OCCUPANCY. SEE ALSO 408.2
O S O S O S O S O S		OCCUPANCY SEPARATION:
		SEE IRC 508.2.5, 712 LSC XX.1.2 (IFR BARRIER)
		HEALTHCARE SUITE: SEE IRC 1014.2.2
		EXIT REQUIREMENTS DEFINE SPACE: 5,000 SF MAX. PATIENT TREATMENT SUITE 5,000 SF MAX. PATIENT SLEEPING SUITE.

AREA CLASSIFICATION		EGRESS PATH
	<i>calculate, see the CH₂ and CH₃ symbols</i>	EGRESS PATH SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
		EXIT PASSAGEWAY
		SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
		SHWFT
		SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
		FIRE DAMPER REQUIRED AT BOTTOM OF SHWFT
		INCIDENTAL USE
		SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
		SINCE REQUIRED TO TRANSMIT TRANSFER OF SHADE
		COLOR, TINT, AND SHIFTS REQUIRED (EC 900.2.5, LSC 900.2.2)

NOT ALL SYM change if your project is different

GRĀEF

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Madison, VM 53718-8346
608 / 242 1550
608 / 242 0787 fax

www.graef-usa.com

CONSULTANTS:

B	W	B	R
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PROJECT TITLE:

Capitol East Parking Garage

Enter address here

CLIENT:

CITY OF MADISON PARKING UTILITY
215 MARTIN LUTHER KING JR BLVD



ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER: 3.2016187.00

DATE: 03/15/2017

DRAWN BY: Author

CHECKED BY: Checker

APPROVED BY: Approver

SCALE: AS NOTED

SET TYPE: SD

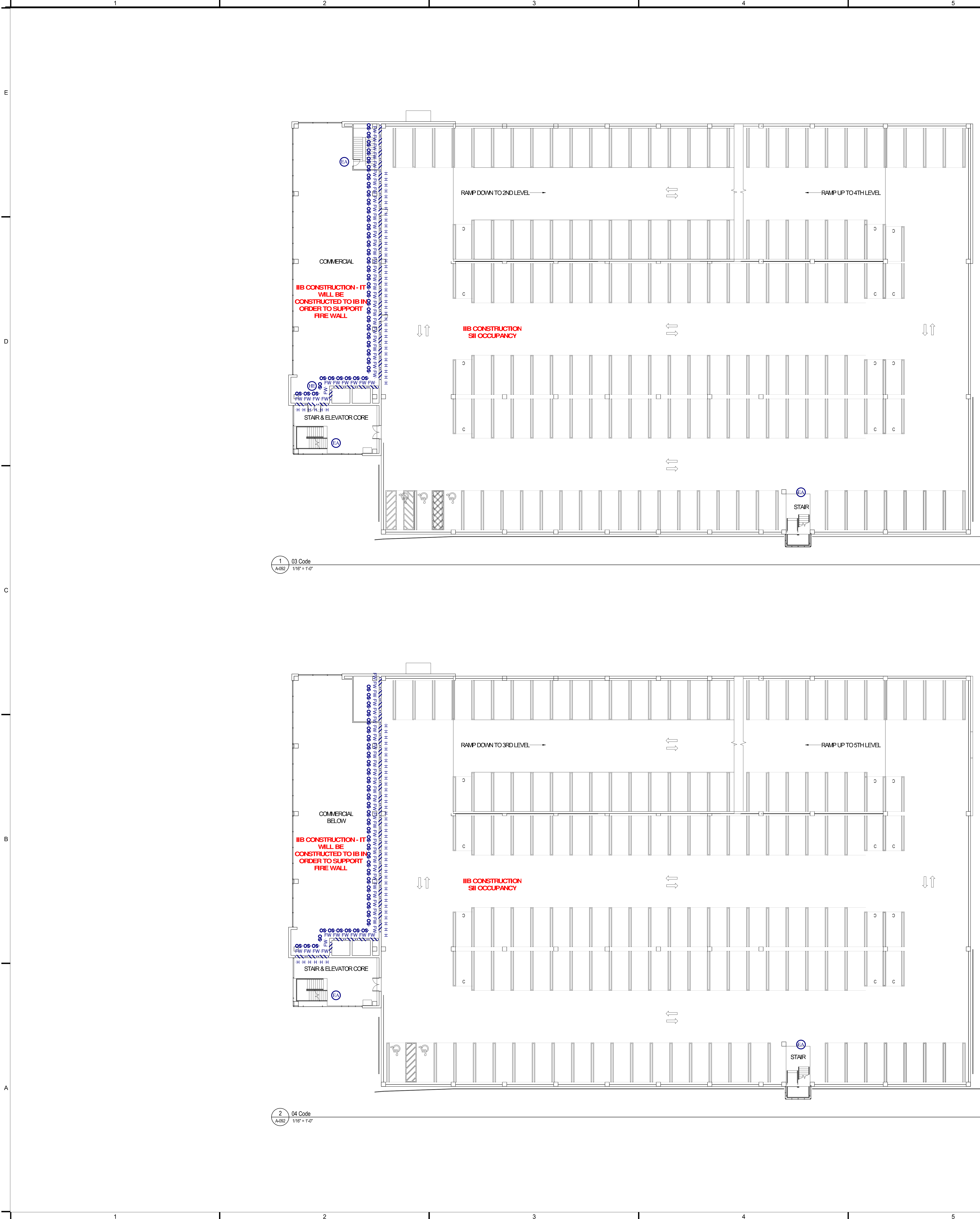
SHEET TITLE:

FIRST & SECOND LEVEL - CODE

SHEET NUMBER:

A-091

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3/14/2017 2:02:34 PM



CODE SUMMARY

PROJECT DESCRIPTION (description)	
GENERAL TYPE OF PROJECT	
NEW BUILDING	YES NO
ADDITION	
REMODEL	
AUTHORITIES HAVING JURISDICTION (A/H's)	
CITY OF MADISON	YES NO
STATE OF WISCONSIN	
DEPARTMENT OF HEALTH (DOH)	
THE JOINT COMMISSION (TJC)	
CENTER FOR MEDICARE/MEDICAID SERVICES (CMS)	
APPLICABLE REGULATIONS	
2009 IBC / 2011 WISCONSIN COMMERCIAL BUILDING CODE	YES NO
2000 NFPA 101 (LIFE SAFETY CODE)	
ANSI A117.1 103	
MINI ACC CODE '15	
ADAMS	
MINI STATE RULES	
2010 FGI GUIDELINES	
OCCUPANCY CLASSIFICATIONS (IBC CH 10.2.4) (LSC CH 12.42)	
OCCUPANCIES	YES NO
CHANGE OF OCCUPANCY? (If Remodeling)	
SEPARATED OCCUPANCIES? (IBC Section 508)	
FIRE BARRIER RATINGS (Section 707)	SEE CODE PLANS
TYPES OF CONSTRUCTION (IBC Chapter 6) (Input) (LSC Chapter 777) (Input)	
CONSTRUCTION TYPES	SEE CODE PLANS
AREA SEPARATIONS / FIRE WALLS	SEE CODE PLANS
ALLOWABLE AREA PER FLOOR (Section 508)	
BASIC ALLOWABLE AREA (from Table 503)	(Input)
PERCENTAGE INCREASE	(Input)
SPRINKLER INCREASE	(Input)
BASIC ALLOWABLE AREA X 0.75 (HORIZONTAL CONSTRUCTION)	(Input)
BASIC ALLOWABLE AREA X 0.75 (MULTI-STORY BUILDINGS)	(Input)
BASIC ALLOWABLE AREA X 0.75 (SINGLE-STORY BUILDINGS)	(Input)
TOTAL ALLOWABLE AREA/FLOOR	(Input)
ACTUAL AREA PER FLOOR	
FIRST FLOOR	ACTUAL ALLOWABLE (from above)
SECOND FLOOR	(Input) (Input)
TOTAL	(Input) (Input)
BUILDING HEIGHT	
EXTERIOR SPRINKLER SYSTEM	YES NO
EXTERIOR SPRINKLER SYSTEM	(Input)
ACTUAL HEIGHT	ALLOWABLE HEIGHT
FEET	(Input) (Input)
STORIES	(Input) (Input)
EGRESS	
AREAS OF REFUGE REQUIRED	YES NO
ACCESSIBLE MEANS OF EGRESS (MOP) REQUIRED	
ELEVATOR REQUIRED AS MEANS OF EGRESS	
MEANS OF EGRESS CAPACITY (with in inches)	(Input)
OCCUPANT LOAD OF BUILDING	
AREA LOCATION	ACTUAL AREA (SFOCCUPANT) OCCUPANTS
FIRST LEVEL	(Input) (Input) (Input)
SECOND LEVEL	(Input) (Input) (Input)
FIRST LEVEL	(Input) (Input) (Input)
SECOND LEVEL	(Input) (Input) (Input)
TOTAL BUILDING OCCUPANT LOAD	(Input)
PLUMBING FIXTURES	
PROVIDED	RATIO FACTOR (IBC CH 10.2)
TOILETS	M, F
URINALS	
LAVATORIES	
DRINKING FOUNTAIN	
SERVICE SINKS	
FIRE-RESISTIVE REQUIREMENTS (TABLE 601)	
STRUCTURAL FRAME	RATING (HRS) TEST
COLUMNS	(Input) (Input)
GIRDERS	(Input) (Input)
TRUSSES	(Input) (Input)
BEARING WALLS	
EXTERIOR BEARING WALLS	(Input) (Input)
INTERIOR BEARING WALLS	(Input) (Input)
NONBEARING WALLS AND PARTITIONS	(IBC Table 601 and Section 602.4.6)
EXTERIOR	(Input) (Input)
INTERIOR	(See Code Plans, PG Plans, & Spec)
FLOOR CONSTRUCTION	
FLOOR/CEILING ASSEMBLY	(Input) (Input)
FRAME & SEC. FLOOR BEAMS, JOISTS	(Input) (Input)
ROOF CONSTRUCTION	
ROOF/CEILING ASSEMBLY	(Input) (Input)
FRAME & SEC. ROOF BEAMS, JOISTS	(Input) (Input)
OTHER	(Input) (Input)
SHAFTS AND EXIT PASSAGEWAYS	(Input) (Input)
EXTERIOR DOORS AND WINDOWS	(Input) (Input)
MISCELLANEOUS	
FIRE RESISTIVE CORRIDORS? (IBC Table 1010.1)	YES NO
SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS) (IBC 407.3)	
INCIDENTAL USE AREA RATINGS (IBC Table 1010.2.2) (Refer to LSC CH 12.42) (SEE PLANS)	
INTERIOR FINISHES CLASSIFICATION (Table 1010.3.1 & Section 601)	
OCCUPANCY	EXIT CORRIDORS ROOMS (UNO)
A-2	N/A N/A B DCC-F1-1 C DCC-F1-2
B	N/A N/A C DCC-F1-1 C DCC-F1-2
I-2	N/A N/A B Class II B** DCC-F1-2
ADDITIONAL NOTES	

CODE PLAN SYMBOLS LEGEND

FIRE RESISTANCE RATINGS	
SMOKE PARTITION (IBC 710)	CORSET OF CORRIDOR WALLS (LSC 10.3.6.2)
FIRE PARTITION	CORRIDOR WALLS (IBC 710)
1 HR FIRE RATED ASSEMBLY	1 HR FIRE RATED ASSEMBLY
PROTECTION OF HAZARDOUS (LSC 10.3.2)	1 HR FIRE RATED ASSEMBLY
FIRE DAMPER USUALLY REQUIRED	1 HR FIRE RATED ASSEMBLY WITH SMOKE PROTECTION
2 HR FIRE RATED ASSEMBLY	2 HR FIRE RATED ASSEMBLY
FIRE DAMPER USUALLY REQUIRED	2 HR FIRE RATED ASSEMBLY WITH SMOKE PROTECTION
3 HR FIRE RATED ASSEMBLY	3 HR FIRE RATED ASSEMBLY
FIRE DAMPER USUALLY REQUIRED	3 HR FIRE RATED ASSEMBLY WITH SMOKE PROTECTION
FW FW FW FW FW	FW FW FW FW FW
MEANS OF EGRESS	
EXIT ACCESS	EXIT
EXIT DISCHARGE	EXIT DISCHARGE
HORIZONTAL EXIT	HORIZONTAL EXIT
DELAYED EGRESS	DELAYED EGRESS
MISCELLANEOUS	
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FV	FIRE VALVE
FVC	FIRE VALVE CABINET
---	PROJECT LIMITS LINE
WALL CLASSIFICATION	
SMOKE BOUNDARY	SEE IBC 710.10.5.5 LSC 10.3.1.8.3
HORIZONTAL EXIT	SEE IBC 10.2.5.2 LSC 10.3.1.2
OCCUPANCY SEPARATION	SEE IBC 10.2.5.2 LSC 10.3.1.2
HEALTHCARE SUITE	SEE IBC 10.2.5.2 LSC 10.3.1.2
AREA CLASSIFICATION	
EGRESS PATH	SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
EXIT PASSAGEWAY	SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
SHIFT	SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS
INCIDENTAL USE	SURROUNDING SYMBOLS INDICATE RATING AND DAMPER REQUIREMENTS

PROJECT INFORMATION:

PROJECT NUMBER: 3.2016187.00

DATE: 03/15/2017

DRAWN BY: Author

CHECKED BY: Checker

APPROVED BY: Approver

SCALE: AS NOTED

SET TYPE: SD

SHEET TYPE: THIRD & FOURTH LEVEL - CODE PLAN

SHEET NUMBER:

CONSULTANTS:

BWB R

CLIENT:

CITY OF MADISON PARKING UTILITY

215 MARTIN LUTHER KING, JR. BLVD.
MADISON, WISCONSIN 53703-2085

ISSUE:

PROJECT TITLE:

Capitol East Parking Garage

Enter address here

5126 West Terrace Drive,
Suite 111
Madison, WI 53718-8346
608 / 242 1550
608 / 242 0787 fax

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GRAEF

A-092



EXTERIOR ELEVATION KEYED NOTES

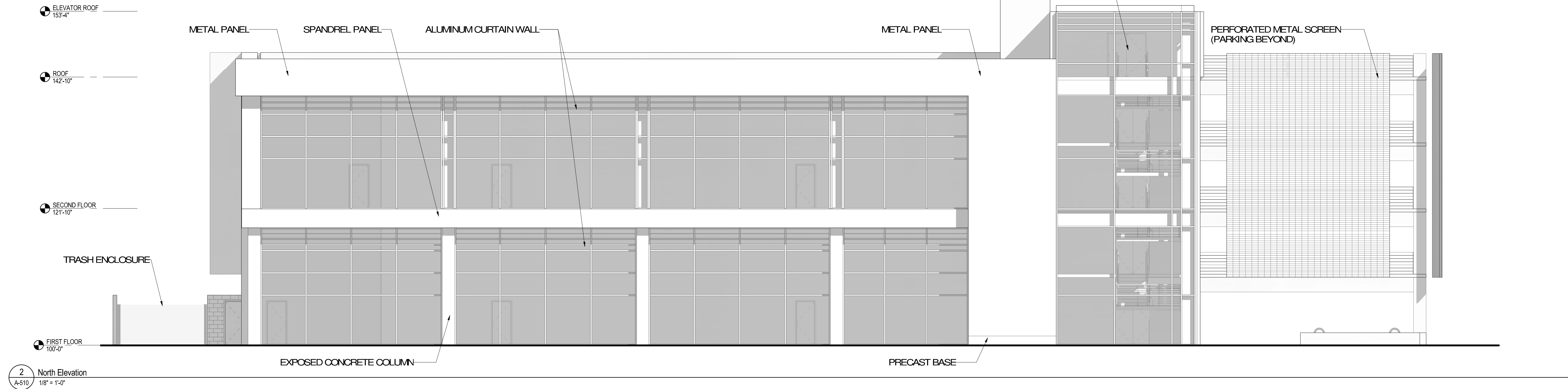
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<E04> DESCRIPTION
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Then purge the family called: **Keynote (instances) - DWG08.rvt**

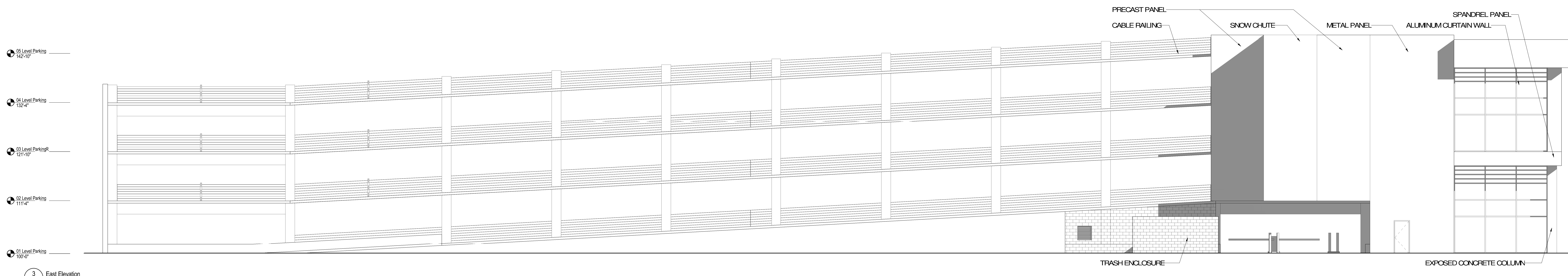
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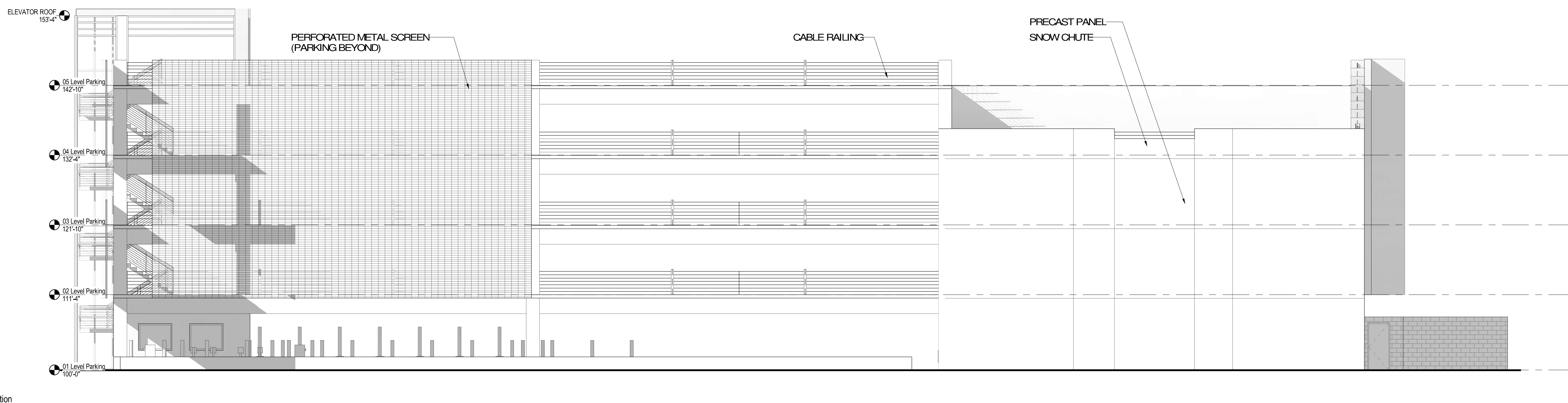
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



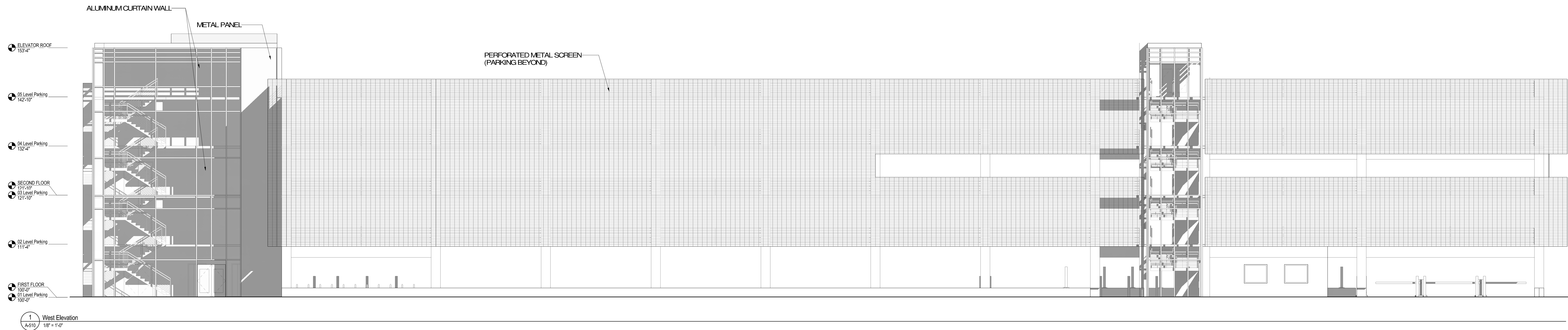
2 North Elevation
A-510 1/8" = 1'-0"



3 East Elevation
A-510 1/8" = 1'-0"



4 South Elevation
A-510 1/8" = 1'-0"



1 West Elevation
A-510 1/8" = 1'-0"