



APPLICATION FOR VARIANCE

State Form 44400 (R5 / 10-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_coda/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

15-06-02

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant Douglas M. Morris	Title Dir. Planning Design & Construction
Name of organization Butler University	Telephone number 317 940-9443
Address (number and street, city, state, and ZIP code) 4600 Sunset, Indianapolis, IN 46208	

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (If not submitted by the applicant)

Name of person on behalf of the applicant Matt Deiks	Title Sales Manager
Name of organization KONE Inc.	Telephone number (317) 788-0061
Address (number and street, city, state, and ZIP code) 5201 Park Emerson Drive, Suite O Indianapolis, IN 46203	

3. DESIGN PROFESSIONAL OF RECORD (If applicable)

Name of design professional	License number
Name of organization	Telephone number ()
Address (number and street, city, state, and ZIP code)	

4. PROJECT IDENTIFICATION

Name of project Butler Parking Garage elevator #1	State project number	County
Site address (number and street, city, state, and ZIP code) 4702 Sunset Ave., Indianapolis, IN 46208		
Type of project: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- Written documentation showing that the local fire official has received a copy of the variance application.
- Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

Yes (if yes, attach a copy of the Correction Order) No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) No

Violation issued by: Local Building Department State Fire and Building Code Enforcement Section
 Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved 2007 Indiana Elevator Code (ASME A17.1-2007)	Specific code section 2.18.5 Minimum Number and Diameter of Suspension Ropes
Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary) KONE EcoSpace Elevators with a capacity of 3,000-5,000# utilize 6mm steel wire governor rope instead of the required minimum dia. of 9.5mm per Section 2.18.5. Per the attached documentation, these cables meet ASME code Section 2.18.5.1 Factor of Safety.	

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

Refer to attached Rope Approval Binder and Section 3 inside the binder which has a copy of an independent 3rd party testing agency verifying the braking strength of the ropes

KONE will also provide a (if requested by the State of Indiana) rope gauge to each elevator inspector. These gauges measure the diameter of the ropes and determine if the ropes need to be replaced due to wear or rouging. (See attached Rope Gauge)

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

- Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services.
- Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure.
- Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements.
- Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

This elevator application deletes the need to build an elevator penthouse therefore lowering overall building costs. The elevator technology is addressed by and complies with more recent elevator standards not currently adopted by the State of Indiana.

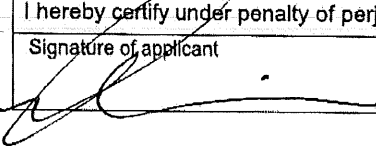
10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

Signature of applicant or person submitting application	Please print name Matt Delks	Date of signature (month, day, year)
Signature of design professional (if applicable)	Please print name	Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (if the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant 	Please print name Douglas W. Morris	Date of signature (month, day, year) 4/28/15
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APPLICATION FOR VARIANCE

Slate Form 44400 (R5 / 10-10)

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CODE SERVICES SECTION
402 West Washington Street, Room W246
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http://www.in.gov/dhs/fire/fp_bs_comm_code/



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Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

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Name of organization Butler University	Telephone number (317) 940-9443	
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2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (If not submitted by the applicant)		
Name of person on behalf of the applicant Matt Delks	Title Sales Manager	
Name of organization KONE Inc.	Telephone number (317) 788-0061	
Address (number and street, city, state, and ZIP code) 5201 Park Emerson Drive, Suite O Indianapolis, IN 46203		
3. DESIGN PROFESSIONAL OF RECORD (If applicable)		
Name of design professional	License number	
Name of organization	Telephone number ()	
Address (number and street, city, state, and ZIP code)		
4. PROJECT IDENTIFICATION		
Name of project Butler Parking Garage elevator #1	State project number	County
Site address (number and street, city, state, and ZIP code) 4702 Sunset Ave., Indianapolis, IN 46208		
Type of project: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		
5. REQUIRED ADDITIONAL INFORMATION		
The following required information has been included with this application (check as applicable):		
<input checked="" type="checkbox"/> A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)		
<input checked="" type="checkbox"/> One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.		
<input checked="" type="checkbox"/> Written documentation showing that the local fire official has received a copy of the variance application.		
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6. VIOLATION INFORMATION		
Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order? <input type="checkbox"/> Yes (if yes, attach a copy of the Correction Order) <input checked="" type="checkbox"/> No		
Has a violation been issued? <input type="checkbox"/> Yes (if yes, attach a copy of the Violation and answer the following) <input checked="" type="checkbox"/> No		
Violation issued by: <input type="checkbox"/> Local Building Department <input type="checkbox"/> State Fire and Building Code Enforcement Section <input type="checkbox"/> Local Fire Department		

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved	Specific code section
2007 Indiana Elevator Code (ASME A17.1-2007)	2.20.4 Minimum Number and Diameter of Suspension Ropes

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)
 KONE EcoSpace Elevators with a capacity of 3,000-5,000# utilize 8mm steel wire rope suspension cable instead of the required minimum dia. of 9.5mm per Section 2.20.4. Per the attached documentation, these cables meet ASME code Section 2.20.3 Factor of Safety along with the minimum number of ropes required in Section 2.20.4

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

Non-compliance with the rule will not be adverse to the public health, safety or welfare; or

Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts demonstrating that the above selected statement is true:
 Refer to attached Rope Approval Binder and Section 3 inside the binder which has a copy of an independent 3rd party testing agency verifying the braking strength of the ropes

KONE will also provide a (if requested by the State of Indiana) rope gauge to each elevator inspector. These gauges measure the diameter of the ropes and determine if the ropes need to be replaced due to wear or rouging. (See attached Rope Gauge)

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

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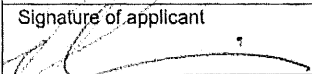
10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

Signature of applicant or person submitting application	Please print name	Date of signature (month, day, year)
	Matt Delks	
Signature of design professional (if applicable)	Please print name	Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (if the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant	Please print name	Date of signature (month, day, year)
	Douglas W. Mackey	4/17/15



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Variance number (Assigned by department)

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Name of organization KONE Inc.	Telephone number (317) 788-0061
Address (number and street, city, state, and ZIP code) 5201 Park Emerson Drive, Suite O Indianapolis, IN 46203	

3. DESIGN PROFESSIONAL OF RECORD (If applicable)

Name of design professional	License number
Name of organization	Telephone number ()
Address (number and street, city, state, and ZIP code)	

4. PROJECT IDENTIFICATION

Name of project Butler Parking Garage elevator #2	State project number	County
Site address (number and street, city, state, and ZIP code) 4702 Sunset Ave., Indianapolis, IN 46208		
Type of project: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		

5. REQUIRED ADDITIONAL INFORMATION

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Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) No

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7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved 2007 Indiana Elevator Code (ASME A17.1-2007)	Specific code section 2.18.5 Minimum Number and Diameter of Suspension Ropes
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Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)
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Signature of applicant or person submitting application	Please print name Matt Delks	Date of signature (month, day, year)
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Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant Douglas M. Morris	Title Dir. Planning Design & Construction
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Address (number and street, city, state, and ZIP code) 4600 Sunset, Indianapolis, IN 46208	

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Name of person on behalf of the applicant Matt Delks	Title Sales Manager
Name of organization KONE Inc.	Telephone number (317) 788-0061
Address (number and street, city, state, and ZIP code) 5201 Park Emerson Drive, Suite O Indianapolis, IN 46203	

3. DESIGN PROFESSIONAL OF RECORD (If applicable)

Name of design professional	License number
Name of organization	Telephone number ()
Address (number and street, city, state, and ZIP code)	

4. PROJECT IDENTIFICATION

Name of project Butler Parking Garage elevator #2	State project number	County
Site address (number and street, city, state, and ZIP code) 4702 Sunset Ave., Indianapolis, IN 46208		
Type of project: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		

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7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved 2007 Indiana Elevator Code (ASME A17.1-2007)	Specific code section 2.20.4 Minimum Number and Diameter of Suspension Ropes
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Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)
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Signature of design professional (if applicable)	Please print name	Date of signature (month, day, year)

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Signature of applicant 	Please print name Douglas M. Morley	Date of signature (month, day, year) 4/17/15
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3. DESIGN PROFESSIONAL OF RECORD (If applicable)

Name of design professional	License number
Name of organization	Telephone number ()
Address (number and street, city, state, and ZIP code)	

4. PROJECT IDENTIFICATION

Name of project Butler Parking Garage elevator #3	State project number	County
Site address (number and street, city, state, and ZIP code) 4702 Sunset Ave., Indianapolis, IN 46208		
Type of project: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		

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7. DESCRIPTION OF REQUESTED VARIANCE

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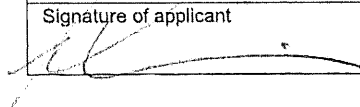
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11. STATEMENT OF AWARENESS (if the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant 	Please print name Douglas M. Moberg	Date of signature (month, day, year) 9/17/15
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Name of organization KONE Inc.	Telephone number (317) 788-0061
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Name of design professional	License number
Name of organization	Telephone number ()
Address (number and street, city, state, and ZIP code)	

4. PROJECT IDENTIFICATION

Name of project Butler Parking Garage elevator #3	State project number	County
Site address (number and street, city, state, and ZIP code) 4702 Sunset Ave., Indianapolis, IN 46208		
Type of project: <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- Written documentation showing that the local fire official has received a copy of the variance application.
- Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

- Yes (if yes, attach a copy of the Correction Order) No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) No

- Violation issued by: Local Building Department State Fire and Building Code Enforcement Section
 Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved 2007 Indiana Elevator Code (ASME A17.1-2007)	Specific code section 2.20.4 Minimum Number and Diameter of Suspension Ropes
Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary) KONE EcoSpace Elevators with a capacity of 3,000-5,000# utilize 8mm steel wire rope suspension cable instead of the required minimum dia. of 9.5mm per Section 2.20.4. Per the attached documentation, these cables meet ASME code Section 2.20.3 Factor of Safety along with the minimum number of ropes required in Section 2.20.4	

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

Refer to attached Rope Approval Binder and Section 3 inside the binder which has a copy of an independent 3rd party testing agency verifying the braking strength of the ropes

KONE will also provide a (if requested by the State of Indiana) rope gauge to each elevator inspector. These gauges measure the diameter of the ropes and determine if the ropes need to be replaced due to wear or rouging. (See attached Rope Gauge)

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

- Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services.
- Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure.
- Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements.
- Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

This elevator application deletes the need to build an elevator penthouse therefore lowering overall building costs. The elevator technology is addressed by and complies with more recent elevator standards not currently adopted by the State of Indiana.

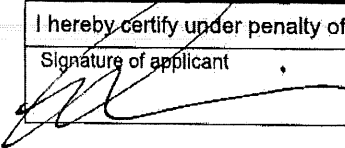
10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

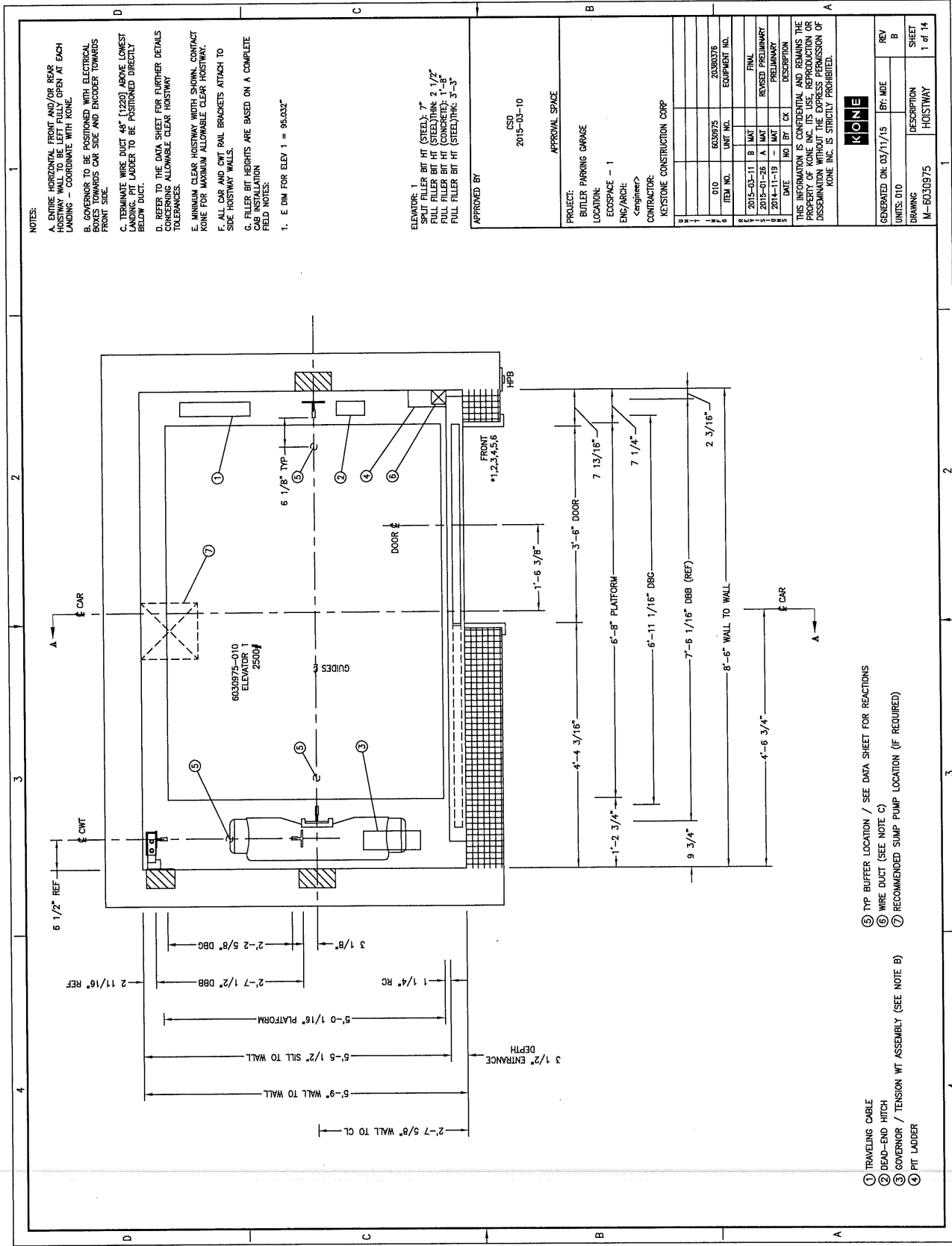
Signature of applicant or person submitting application	Please print name Matt Delks	Date of signature (month, day, year)
Signature of design professional (if applicable)	Please print name	Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant 	Please print name Douglas M. Morris	Date of signature (month, day, year) 4/29/15
--	--	---

elev. #1



NOTES:

- ENTIRE HORIZONTAL FRONT AND/OR REAR HOISTWAY WALL TO BE LEFT FULLY OPEN AT EACH LANDING - COORDINATE WITH KONE.
- GOVERNOR TO BE POSITIONED WITH ELECTRICAL BOXES TOWARDS CAR SIDE AND ENCOBER TOWARDS FRONT SIDE.
- TERMINATE WIRE DUCT 48" (1220) ABOVE LOWEST LANDING. PIT LADDER TO BE POSITIONED DIRECTLY BELOW DUCT.
- REFER TO THE DATA SHEET FOR FURTHER DETAILS CONCERNING ALLOWABLE CLEAR HOISTWAY TOLERANCES.
- MINIMUM CLEAR HOISTWAY WITH SHOWN CONTACT KONE FOR MAXIMUM ALLOWABLE CLEAR HOISTWAY.
- ALL CAR AND CWT RAIL BRACKETS ATTACH TO SIDE HOISTWAY WALLS.
- FILLER BIT HEIGHTS ARE BASED ON A COMPLETE PART INFORMATION FIELD NOTES.
- E DIM FOR ELEV 1 = 95.032"

ELEVATOR: 1. 6 FT HT (STEEL) - 37"
 FULL FILLER BIT HT (STEEL) THK: 2 1/2"
 FULL FILLER BIT HT (CONCRETE) 1"-8"
 FULL FILLER BIT HT (STEEL) THK: 3"-3"

APPROVED BY
 CSD
 2015-03-10
 APPROVAL SPACE

PROJECT:
 BUTLER PARKING GARAGE
 LOCATION:
 ECOSPACE - 1
 ENG/ARCH:
 <engineer>
 CONTRACTOR:
 KEYSTONE CONSTRUCTION CORP

ITEM NO.	UNIT NO.	EQUIPMENT NO.	DATE	NO	BY	CK	DESCRIPTION
010	6030975	20380076	2015-03-11	B	MAT		FINAL
			2015-01-26	A	MAT		REVISED PRELIMINARY
			2014-11-19	-	MAT		PRELIMINARY

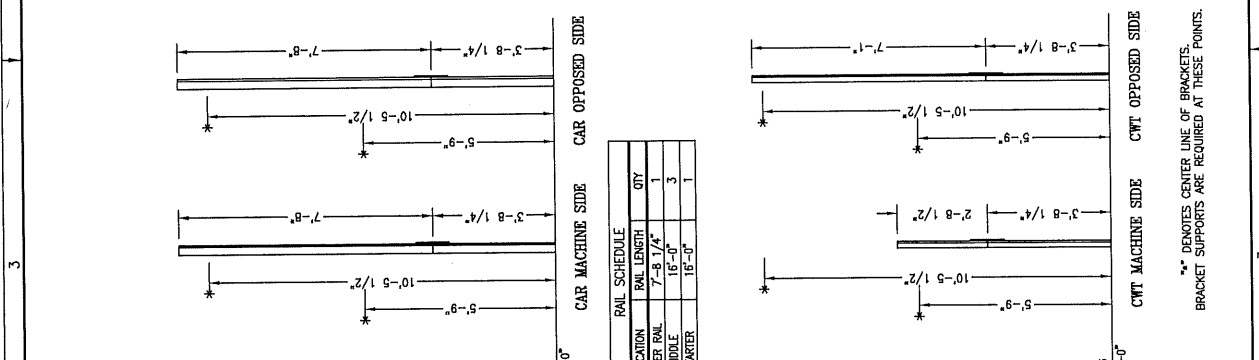
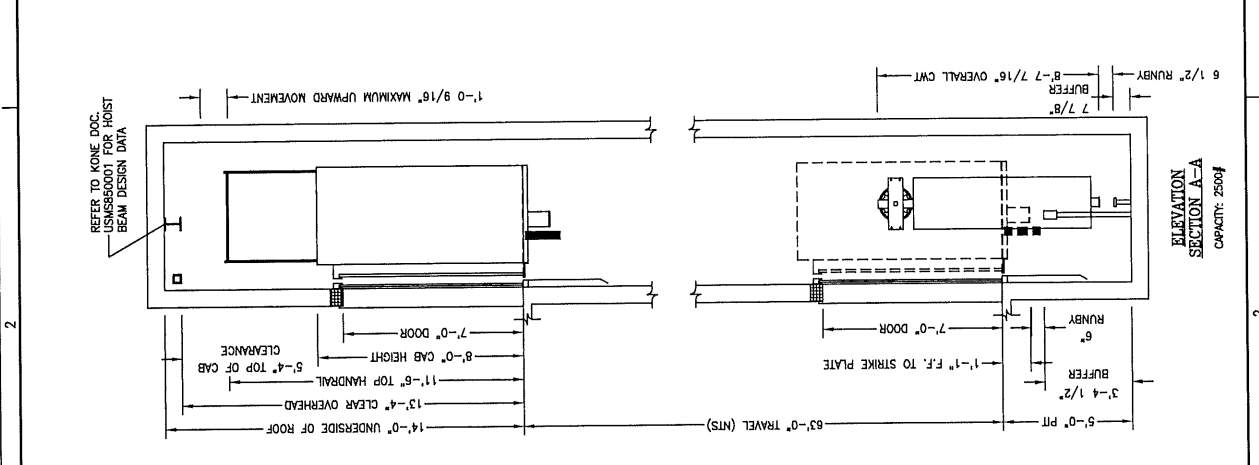
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KONE

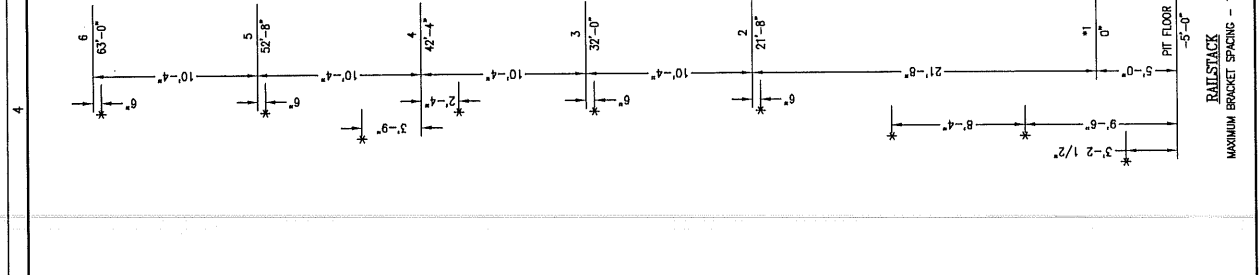
GENERATED ON: 03/11/15 BY: MDE
 UNITS: 010
 DRAWING: M-6030975 DESCRIPTION: HOISTWAY SHEET: 1 of 14

① TRAVELING CABLE
 ② DEAD-END HITCH
 ③ GOVERNOR / TENSION WT ASSEMBLY (SEE NOTE B)
 ④ PIT LADDER
 ⑤ TYP BUFFER LOCATION / SEE DATA SHEET FOR REACTIONS
 ⑥ WIRE DUCT (SEE NOTE C)
 ⑦ RECOMMENDED SUMP PUMP LOCATION (IF REQUIRED)

FLOOR NUM	FRONT	REAR	DISTANCE
1	#1		21'-3"
2			10'-4"
3			10'-4"
4			10'-4"
5			10'-4"
6			10'-4"



LOCATION	RAIL LENGTH	QTY
FILLET RAIL	7'-8 1/4"	1
MIDDLE	16'-0"	3
STARTER	16'-0"	1



DESIGNATION	FLOOR MARKING
MAIN ELEVATION LOBBY	#1
FIRE SERVICE RETURN	#1
ALTERNATE FIRE SERVICE RETURN	2
EMERGENCY POWER RETURN	#1

ELEVATIONS OR FLOOR MARKINGS OF THE FOLLOWING MUST BE NOTED WHEN APPLICABLE.

CSO
2015-03-10

APPROVAL SPACE

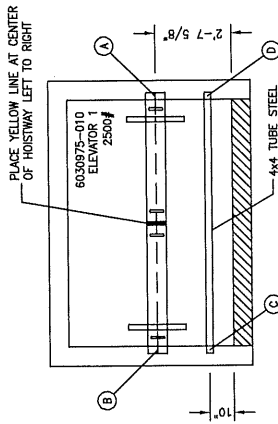
PROJECT: BUTLER PARKING GARAGE
LOCATION: ECOSPACE - 1
ENC/ARCH: <engineer>
CONTRACTOR: KEystone CONSTRUCTION CORP

D10	ITEM NO.	UNIT NO.	EQUIPMENT NO.
1	603975	20380376	
2	2015-03-11	B	FINAL
3	2015-01-26	A	REVISED PRELIMINARY
4	2014-11-19	-	PRELIMINARY
5	DATE	BY	DESCRIPTION

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KONE

GENERATED ON: 03/11/15
UNITS: 010
DRAWING: M-6030975
DESCRIPTION: RAILSTACK
SHEET: 2 of 14

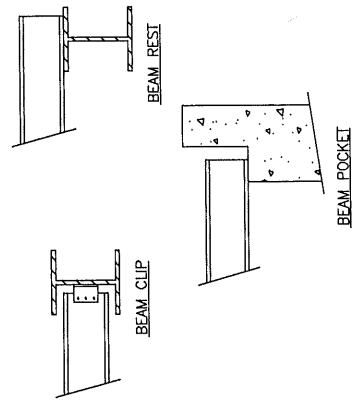


BUILDING LOADS FOR HOISTING BEAM & TUBE STEEL SUPPORT

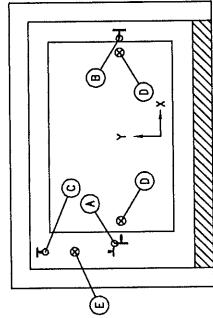
FOR ADJACENT HOISTWAYS COMBINED LOADS ON A COMMON STRUCTURAL SUPPORT SHOULD BE TAKEN INTO CONSIDERATION. REACTIONS SHOWN BELOW ARE FOR THIS ELEVATOR ONLY. PLANVIEW IS AT TOP OF OVERHEAD LOCKING DOWN ON THE BEAMS. REACTIONS ARE TO BE COMBINED TOWARDS THE PIT FLOOR. SEE BRACKET SHEET FOR THE ELEVATOR OF SUPPORTS

VERTICAL FORCES (lb)	A	B	C	D
REACTION LOCATION	5510	4640	5000	5000
Z DIRECTION				

*REACTIONS A AND B ARE SIZED TO SUPPORT THE MAXIMUM WORKING LOAD ON THE BEAM AND TUBE STEEL SUPPORT. FASTENING LIFELINES PER OSHA MINIMUM SUPPORT LOADS. REACTIONS A & B MAY BE CONSIDERED TO OCCUR SEPARATELY FROM C & D.



ATTACHMENT DETAILS



GUIDE RAIL REACTIONS*
FOR ADJACENT HOISTWAYS COMBINED LOADS ON A COMMON STRUCTURAL SUPPORT SHOULD BE TAKEN INTO CONSIDERATION. REACTIONS SHOWN BELOW ARE FOR THIS ELEVATOR ONLY.

NON-SEISMIC REACTIONS			
BRKTS ABOVE TOPMOST LANDING - IMPACT LOADING REACTIONS (lb)			
REACTION LOCATION	A	B	C
X DIRECTION	870	210	50
Y DIRECTION	320	900	100
MAX DEFLECTION NOT TO EXCEED 0.125" DUE TO APPLIED LOADS			

BRKTS BELOW TOPMOST LANDING - RUNNING REACTIONS (lb)			
REACTION LOCATION	A	B	C
X DIRECTION	260	210	50
Y DIRECTION	170	70	100
MAX DEFLECTION NOT TO EXCEED 0.125" DUE TO APPLIED LOADS			

*Governor system related loads are included in the rail reactions.

PIT FLOOR REACTIONS**

VERTICAL FORCES ONTO PIT FLOOR (lb)					
REACTION LOCATION	A	B	C	D	E
Z DIRECTION	12000	6000	3000	9600	14200

**VERTICAL REACTIONS A, B & C OCCUR SIMULTANEOUSLY. VERTICAL REACTIONS D & E OCCUR INDIVIDUALLY AND SEPARATELY FROM A, B & C.

APPROVED BY: CSO, 2015-03-10, APPROVAL SPACE

PROJECT: BUTLER PARKING GARAGE

LOCATION: ECOSPACE - 1

ENG/ARCH: <engineer>

CONTRACTOR: KEYSTONE CONSTRUCTION CORP

D10	ITEM NO.	QTY	EQUIPMENT NO.
6030975	20380376		

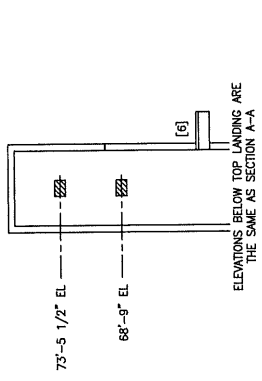
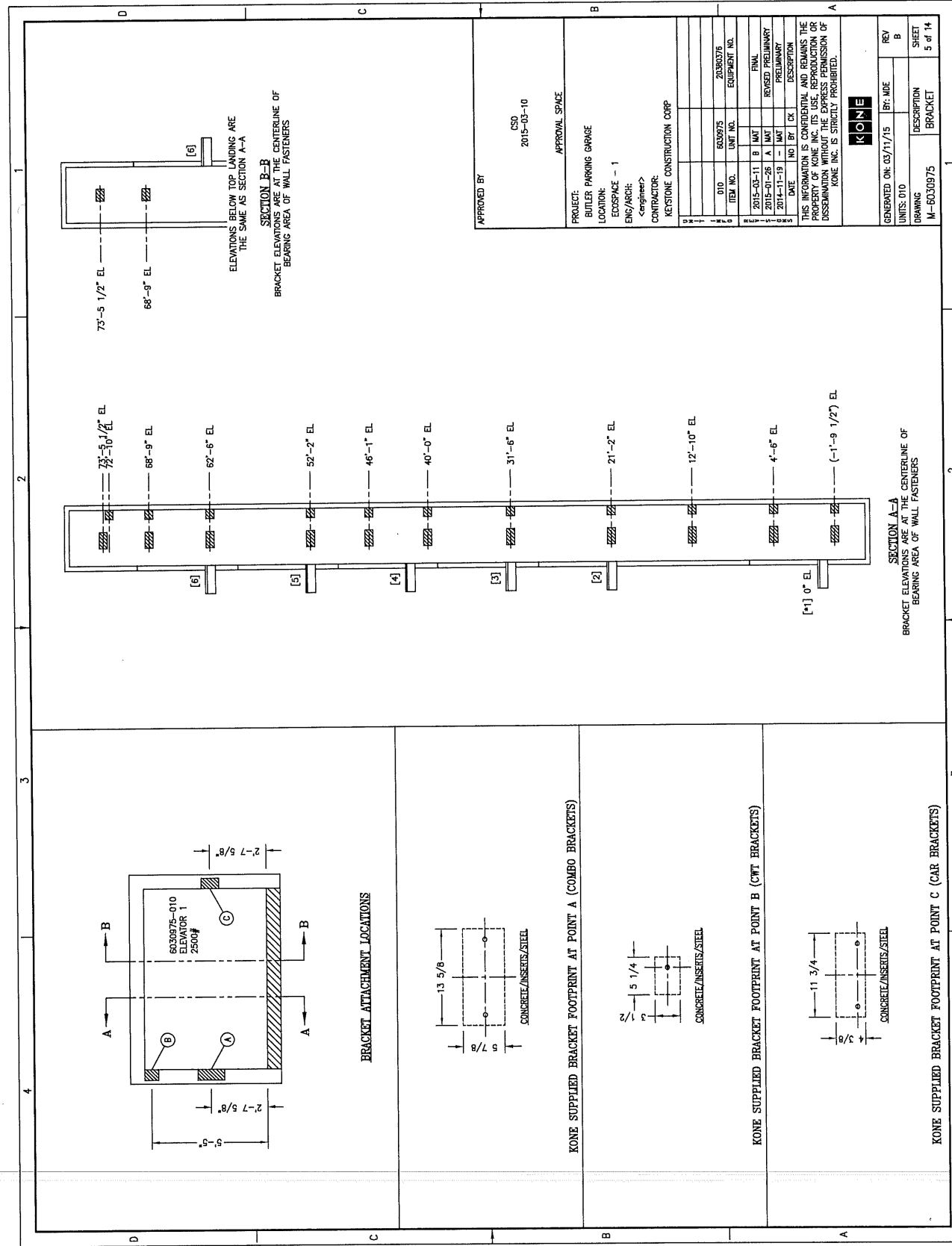
DATE	NO	BY	CHK	DESCRIPTION
2015-03-11	B	MAI		FINAL
2015-01-26	A	MAI		REVISED PRELIMINARY
2014-11-19				PRELIMINARY

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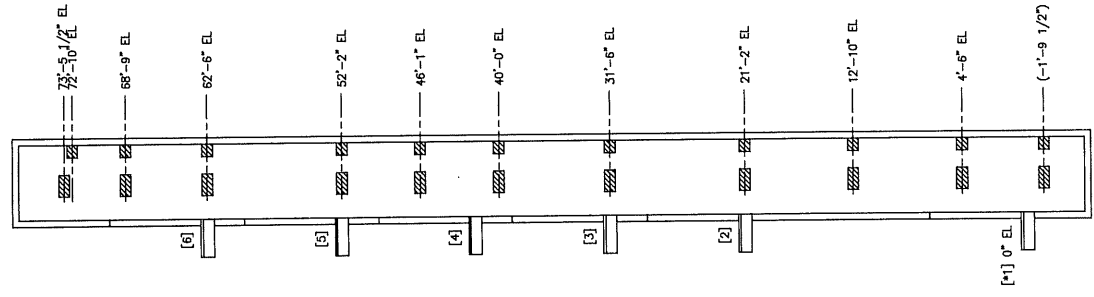
GENERATED ON: 03/11/15 BY: MDE REV: B

UNITS: D10

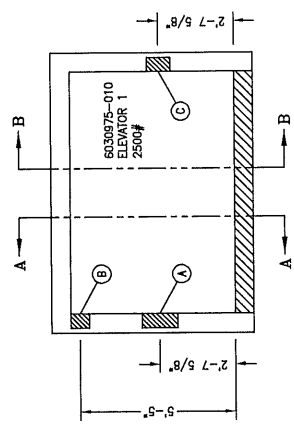
DRAWING: M-6030975 DESCRIPTION: REACTION SHEET 4 of 14



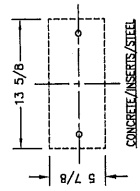
SECTION B-B
 BRACKET ELEVATIONS ARE AT THE CENTERLINE OF BEARING AREA OF WALL FASTENERS



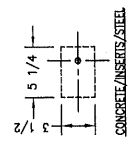
SECTION A-A
 BRACKET ELEVATIONS ARE AT THE CENTERLINE OF BEARING AREA OF WALL FASTENERS



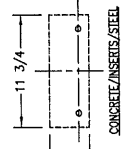
BRACKET ATTACHMENT LOCATIONS



KONE SUPPLIED BRACKET FOOTPRINT AT POINT A (COMBO BRACKETS)



KONE SUPPLIED BRACKET FOOTPRINT AT POINT B (CWT BRACKETS)



KONE SUPPLIED BRACKET FOOTPRINT AT POINT C (CAR BRACKETS)

APPROVED BY: CSD 2015-03-10

PROJECT: BUTLER PARKING GARAGE
 LOCATION: ECOSPACE - 1
 ENG/ARCH: <engineer>
 CONTRACTOR: KEystone CONSTRUCTION CORP

DATE	NO	BY	CHK	DESCRIPTION
2015-03-11	B	IMAT		FINAL
2015-01-26	A	IMAT		REVISED PRELIMINARY
2014-11-19	-	IMAT		PRELIMINARY

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UNIT NO.	6030975	EQUIPMENT NO.	20380376
DESCRIPTION	BRACKET		

GENERATED ON: 03/11/15 BY: MDE
 UNITS: 010
 DRAWING: M-6030975
 SHEET: 5 of 14

ELEVATOR: 1
 RATED CAPACITY: 2500LB(1134KG)
 RATED SPEED: 200FPM(1.00MPS)
 PLATFORM SHAPE: PASSENGER
 CLASS OF LOADING: PASSENGER
 NO OF LANDINGS: 6
 NO OF OPENINGS: 6

OPERATION: SHELLEY
 MECH. POWER REQUIRED: 6.5KW(8.7HP)
 CONTROLLER/DRIVE TYPE: KOMB31 W/KOM-40A
 MACHINE/MOTOR TYPE: MK10/11631-6 W/FAN
 EST WT MACHINE W/MOTOR: 820 LBS
 RATED MOTOR OUTPUT: 6.7KW(9.0HP) - BDRPM
 RATED CONTROLLER OUTPUT: 6.7KW(9.0HP)
 EST. CAR WT.: 2233 LBS

CWT GUIDE TYPE: SL67
 CAR GUIDE TYPE: SLG10A
 CAR SAFETY: SGB08-TYPE B
 CAR GOVERNOR TYPE: OL35
 EST WT INCL 50% D/BAL: 3481 LBS
 CWT FRAME TYPE: CWF10
 MIDDLE WEIGHT WIDTH: 9 1/2

FRONT DOORS: SINGLE SPD - RIGHT
 REAR DOORS: N/A
 INTERLOCKS: 740
 HOISTWAY WIDTH: 21
 HOISTWAY DEPTH: 21
 ROPE TYPE: 21
 GOVERNOR ROPE: 6.0mm
 COMPENSATION: NONE

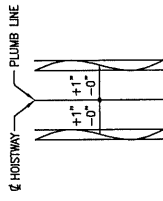
CAR BUFFER TYPE: POLYURETHANE
 CAR BUFFER STROKE: 4.0"
 CAR BUFFER QTY: 2
 CWT BUFFER TYPE: POLYURETHANE
 CWT BUFFER STROKE: 4.0"
 CWT BUFFER QTY: 1
 CAR GUIDE RAILS: 12 LB/FT
 CWT GUIDE RAILS: 8 LB/FT

ELECTRICAL
 MAXIMUM ALLOWABLE VOLTAGE VARIATION IS +/- 10%
 KONE CALC THE FOLLOWING FOR THIS ELEVATOR DUTY
 NAMEPLATE AMPS: 12
 MAX ACCEL AMPS: 19

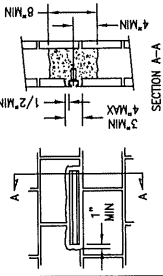
PROTECTION DEVICE REQUIRED PRIOR TO INSTALLATION
 MAX MOTOR BRANCH SHORT-CIRCUIT PROTECTION IS
 UL CLASS RFI FUSE (AMP): 15
 TRANS RATED VOLTAGE: 480, 3 PH, 60 HZ
 SUPPLIED VOLTAGE: 480

HEAT OUTPUTS ARE
 CONTROL/TRANS: 1.5KBTU/HR(0.44KW)
 MACHINE/MOTOR: 1.5KBTU/HR(0.44KW)

FLOOR, CAB & DOOR WEIGHTS
 EST WT. IS BASED ON A FINISH FLOOR THK OF
 1/2" (13mm) IF THE ACTUAL CAB & FLOOR WEIGHT
 DEVIATES, THE EQUIPMENT MAY NEED TO BE REVISED
 EST CAB WEIGHT: 2147.0 LBS
 EST FINISH FLOOR WEIGHT: 3.0 LBS/FT²
 EST FLOOR TOTAL WEIGHT: 87.0 LBS
 CAB & FLOOR WEIGHT: 2233.0 LBS
 MOVING MASS OF DOORS: 238 LBS



HOISTWAY TOLERANCES



APPROVED BY
 CSO
 2015-03-10
 APPROVAL SPACE

PROJECT:
 BUTLER PARKING GARAGE
 LOCATION:
 EOCSPACE - 1
 ENG/ARCH:
 <engineer>
 CONTRACTOR:
 KEYSTONE CONSTRUCTION CORP

ITEM NO.	UNIT NO.	EQUIPMENT NO.	DATE	NO	BY	CK	DESCRIPTION
010	6030975	20380376	2015-03-11	B	MMT		FINAL
			2015-01-26	A	MMT		REVISED PRELIMINARY
			2014-11-19	-	MMT		PRELIMINARY

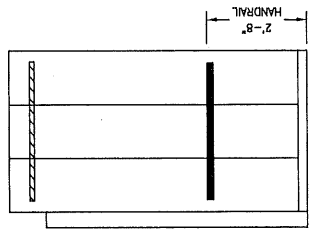
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KONE	
GENERATED ON: 03/11/15	REV BY: MDE
UNITS: DTD	B
DRAWING: M-6030975	DESCRIPTION: DATA
	SHEET: 6 of 14

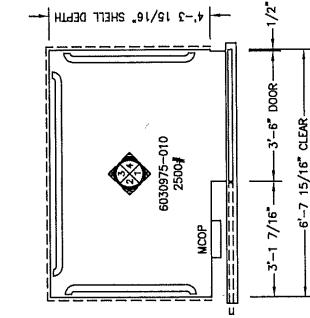
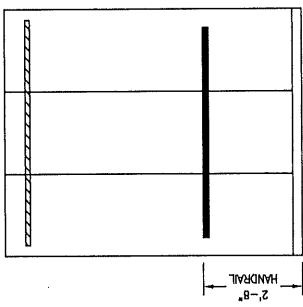
ITEM	TYPE	DESCRIPTION
CEILING PANEL FINISH	4SS	#4 STAINLESS
CEILING PANEL TYPE	P	POLYGL TRANSLUCENT
FRONT DOOR FINISH	4SS	#4 STAINLESS
FRONT DOOR MATERIAL THICKNS	16	16 GA
FRONT WALL FINISH	4SS	#4 STAINLESS
CAR SILL MATERIAL	AL	ALUMINUM
CAB SIDE WALL MATERIAL	10776-60	KENSINGTON MAPLE
CAB REAR WALL MATERIAL	10776-60	KENSINGTON MAPLE
PLASTIC LAMINATE FIRE RATING	BS	CLASS B RATING (STD COLOR)
CAR HANDRAIL	4SS	ROUND
HANDRAIL SIZE	2	2"
CAR FAN TYPE	1	FAN REQUIRED
FINISH FLOOR THK		2233 LBS
TOTAL CAB WEIGHT		PAIDS NOT REQUIRED
PROTECTION PAIDS		
CUSTOM PANEL WEIGHT		

ITEM	TYPE	DESCRIPTION
CEILING PANEL FINISH	4SS	#4 STAINLESS
CEILING PANEL TYPE	P	POLYGL TRANSLUCENT
FRONT DOOR FINISH	4SS	#4 STAINLESS
FRONT DOOR MATERIAL THICKNS	16	16 GA
FRONT WALL FINISH	4SS	#4 STAINLESS
CAR SILL MATERIAL	AL	ALUMINUM
CAB SIDE WALL MATERIAL	10776-60	KENSINGTON MAPLE
CAB REAR WALL MATERIAL	10776-60	KENSINGTON MAPLE
PLASTIC LAMINATE FIRE RATING	BS	CLASS B RATING (STD COLOR)
CAR HANDRAIL	4SS	ROUND
HANDRAIL SIZE	2	2"
CAR FAN TYPE	1	FAN REQUIRED
FINISH FLOOR THK		2233 LBS
TOTAL CAB WEIGHT		PAIDS NOT REQUIRED
PROTECTION PAIDS		
CUSTOM PANEL WEIGHT		

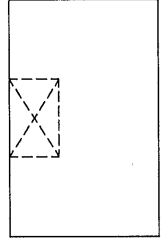
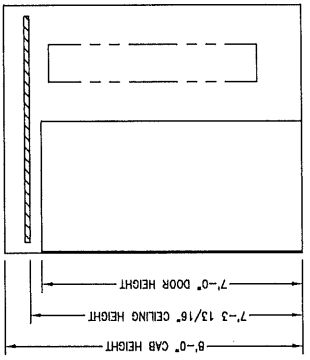
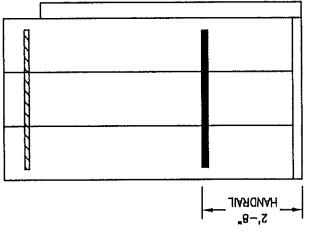
NOTE:
 A. EMERGENCY CAR LIGHTING IS PROVIDED
 B. CAB INTERIOR COMPLIES WITH THE LATEST EDITION ASME A17.1/CSA B44 INCLUDING SMOKE AND FLAME RATING CLASS B.



ELEVATION 3



ELEVATION 4



APPROVED BY: CSD 2015-03-10

PROJECT: BUTLER PARKING GARAGE

LOCATION: EGRESS - 1

ENG/ARCH: <engineer>

CONTRACTOR: KEYSTONE CONSTRUCTION CORP

ITEM NO.	UNIT NO.	EQUIPMENT NO.
010	6030975	20380376

DATE	NO	BY	DESCRIPTION
2015-03-11	B	MMT	FINAL
2015-01-26	A	MMT	REVISED PRELIMINARY
2014-1-19	-	MMT	PRELIMINARY

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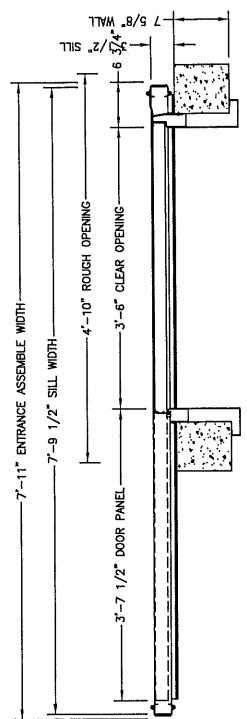
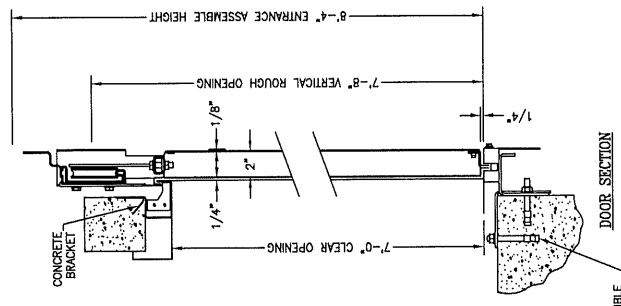
KONE

GENERATED ON: 03/11/15 BY: MDE

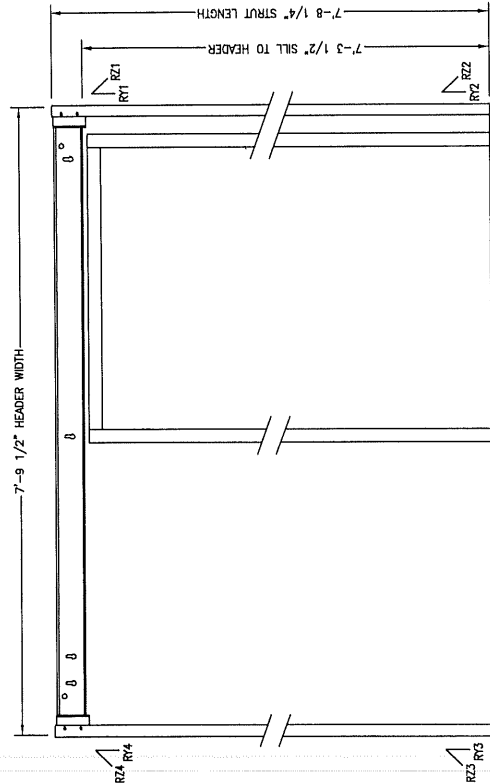
UNITS: 010 REV B

DRAWING: C-6030975 DESCRIPTION: CAB SHEET 9 of 14

ITEM	TYPE	DESCRIPTION
ELEVATOR NUM	1	CUSTOMER ELEVATOR NUM - 1
ENTRANCE DESIGN NUM	1	ANDY / SINGLE SPEED / RIGHT STRIKE
ENTRANCE LANDING	-	#1, 6
FIXTURES	-	KSS570
KEYWAY CUTOUT	-	REQUIRED
ACCESS SWITCH	-	REQUIRED
FIRE RECALL	-	NONE
STAR OF LIFE	-	REQUIRED
FRAME	20 GA	#1 STAINLESS STEEL
SOUND DEADENING	-	NONE
DOOR PANEL	20 GA	#1 STAINLESS STEEL
SILL	W/ROOF	EXTRUDED ALUMINUM
PASON / TOE-GUARD	16 GA	BALANIZED STEEL 46" WIDE
JAMB BRADLE	1ST	SURFACE MOUNTED, ADHESIVE, SS
LABELS	-	2 HOUR U.L. - CLASS B



PLAN VIEW



ELEVATION VIEW

NOTES:
A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET.

APPROVED BY
GSD
2015-03-10
APPROVAL SPACE

PROJECT:
BUTLER PARKING GARAGE
LOCATION:
ECCSPACE - 1
ENG/ARCH:
<signature>
CONTRACTOR:
KEystone CONSTRUCTION CORP

ITEM NO.	UNIT NO.	EQUIPMENT NO.		
D10	6030975	20380376		
2015-03-11	B	FINAL		
2015-01-26	A	REVISED PRELIMINARY		
2014-11-19	-	PRELIMINARY		
DATE	NO	BY	CHK	DESCRIPTION

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KONE

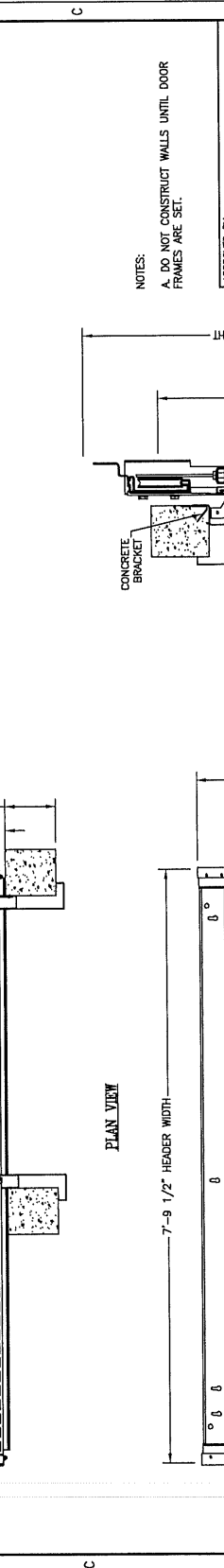
GENERATED ON: 03/11/15 BY: MDE REV: B

UNITS: D10

DRAWING: E-6030975 DESCRIPTION: ENTRANCE SHEET 10 of 14

REACT. PTL.	RZ (LBF)	RY (LBF)
1	430	80
2	365	80
3	150	35
4	180	35

ITEM	DESCRIPTION
ELEVATOR NUM	CUSTOMER ELEVATOR NUM - 1
ENTRANCE DESIGN NUM	ANDY / SINGLE SPEED / RIGHT STRIKE
ENTRANCE LANDING	2, 3, 4, 5
FIXTURES	KSS570
KEYWAY CUTOUT	REQUIRED
ACCESS SWITCH	NONE
FIRE RECALL	NONE
STAR OF LIFE	REQUIRED
FRAME	20 GA #4 STAINLESS STEEL
SOUND DEADENING	NONE
DOOR PANEL	20 GA #4 STAINLESS STEEL
WARRANTY	EXTRUDED ALUMINUM
FINISH / TOE-GUARD	PAINTED STEEL 48" WIDE
JAMB BRIMBLE	TST
LABELS	2 HOUR ULL - CLASS B



NOTES:
 A. DO NOT CONSTRUCT WALLS UNTIL DOOR FRAMES ARE SET.

APPROVED BY
 CSD
 2015-03-10
 APPROVAL SPACE

PROJECT:
 BUTLER PARKING GARAGE
 LOCATION:
 ECOSPACE - 1
 ENG/ARCH:
 <engineer>
 CONTRACTOR:
 KEystone CONSTRUCTION CORP

ITEM NO.	UNIT NO.	EQUIPMENT NO.
010	6030975	20380276
2015-03-11	B	FINAL
2015-01-26	A	REVISED PRELIMINARY
2014-11-19	-	PRELIMINARY
DATE	NO	BT
	CK	DESCRIPTION

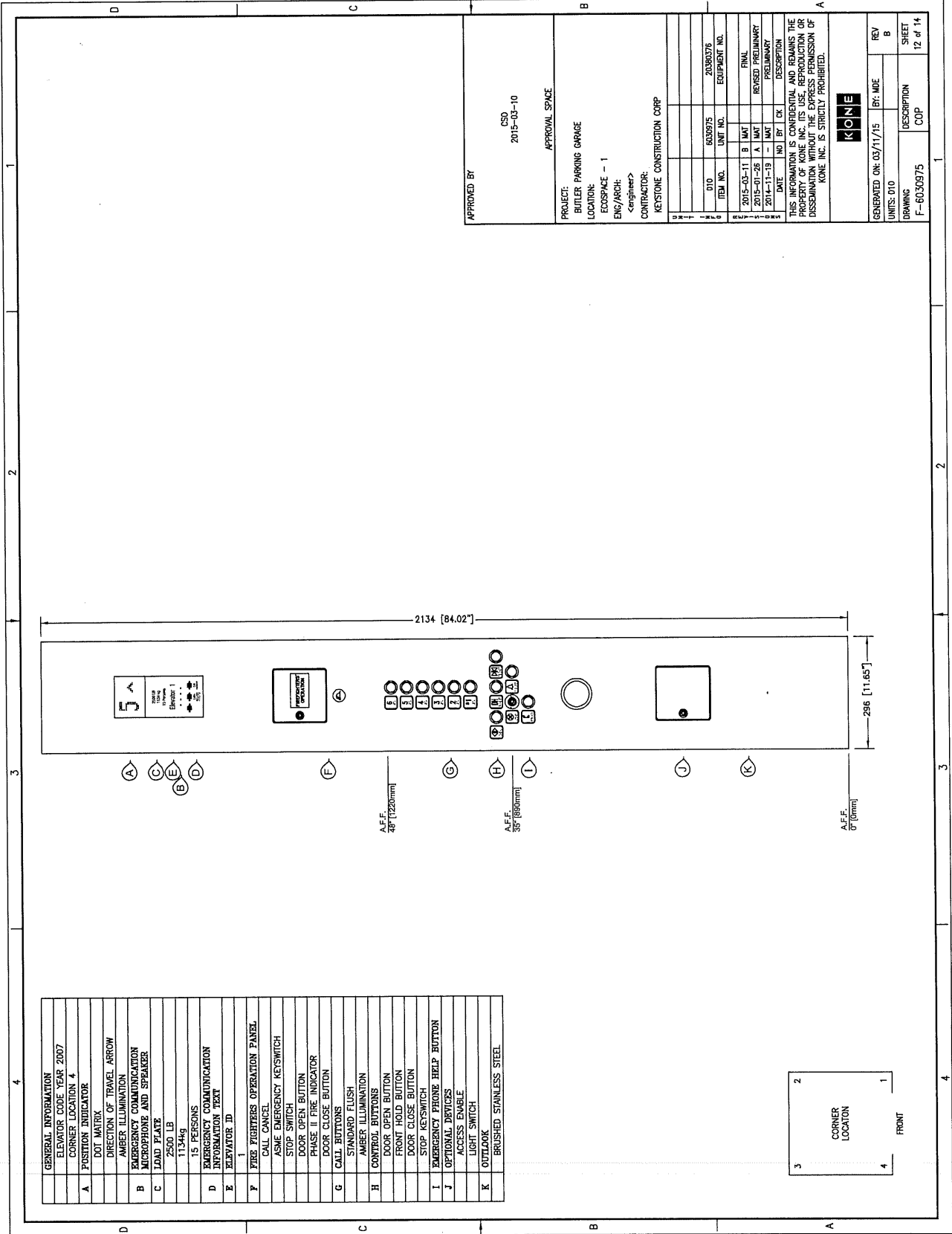
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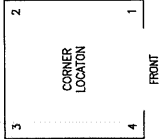
GENERATED ON: 03/11/15
 BY: MDE
 REV B

UNITS: DTD
 DRAWING: E-6030975
 DESCRIPTION: ENTRANCE
 SHEET: 11 of 14

REACT. PT.	RZ (LBF)	RY (LBF)
1	430	80
2	365	80
3	150	35
4	180	35



GENERAL INFORMATION
ELEVATOR CODE YEAR 2007
CORNER LOCATION #
POSITION INDICATOR
DOT MATRIX
DIRECTION OF TRAVEL ARROW
AMBER ILLUMINATION
EMERGENCY COMMUNICATION
MICROPHONE AND SPEAKER
LOAD PLATE
2500 LB
T1344g
15 PERSONS
EMERGENCY COMMUNICATION
INFORMATION TEXT
ELEVATOR ID
1
FIRE FIGHTERS OPERATION PANEL
CALL CANCEL
ASME EMERGENCY KEYSWITCH
STOP SWITCH
DOOR OPEN BUTTON
PHASE II FIRE INDICATOR
DOOR CLOSE BUTTON
CALL BUTTONS
STANDARD FLUSH
AMBER ILLUMINATION
CONTROL BUTTONS
DOOR OPEN BUTTON
FRONT HOLD BUTTON
DOOR CLOSE BUTTON
STOP KEYSWITCH
EMERGENCY PHONE HELP BUTTON
OPTIONAL DEVICES
ACCESS ENABLE
LIGHT SWITCH
OUTLOOK
BRUSHED STAINLESS STEEL



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2015-03-10

APPROVAL SPACE

PROJECT:
BUTLER PARKING GARAGE

LOCATION:
ECS/SPACE - 1

ENG/ARCH:
<engineer>

CONTRACTOR:
KEYSTONE CONSTRUCTION CORP

ITEM NO.	6030975	UNIT NO.	20380376
D10			
DATE	2015-03-11	BY	MMT
	2015-01-26		MMT
	2014-11-19		MMT
		BY	CK
		DESCRIPTION	
			FINAL
			REVISED PRELIMINARY
			PRELIMINARY

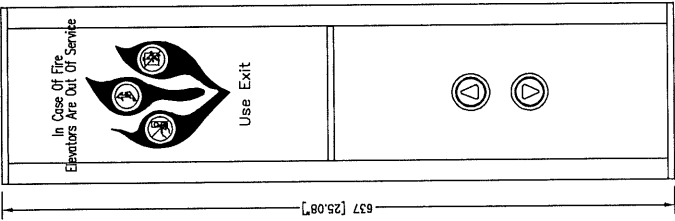
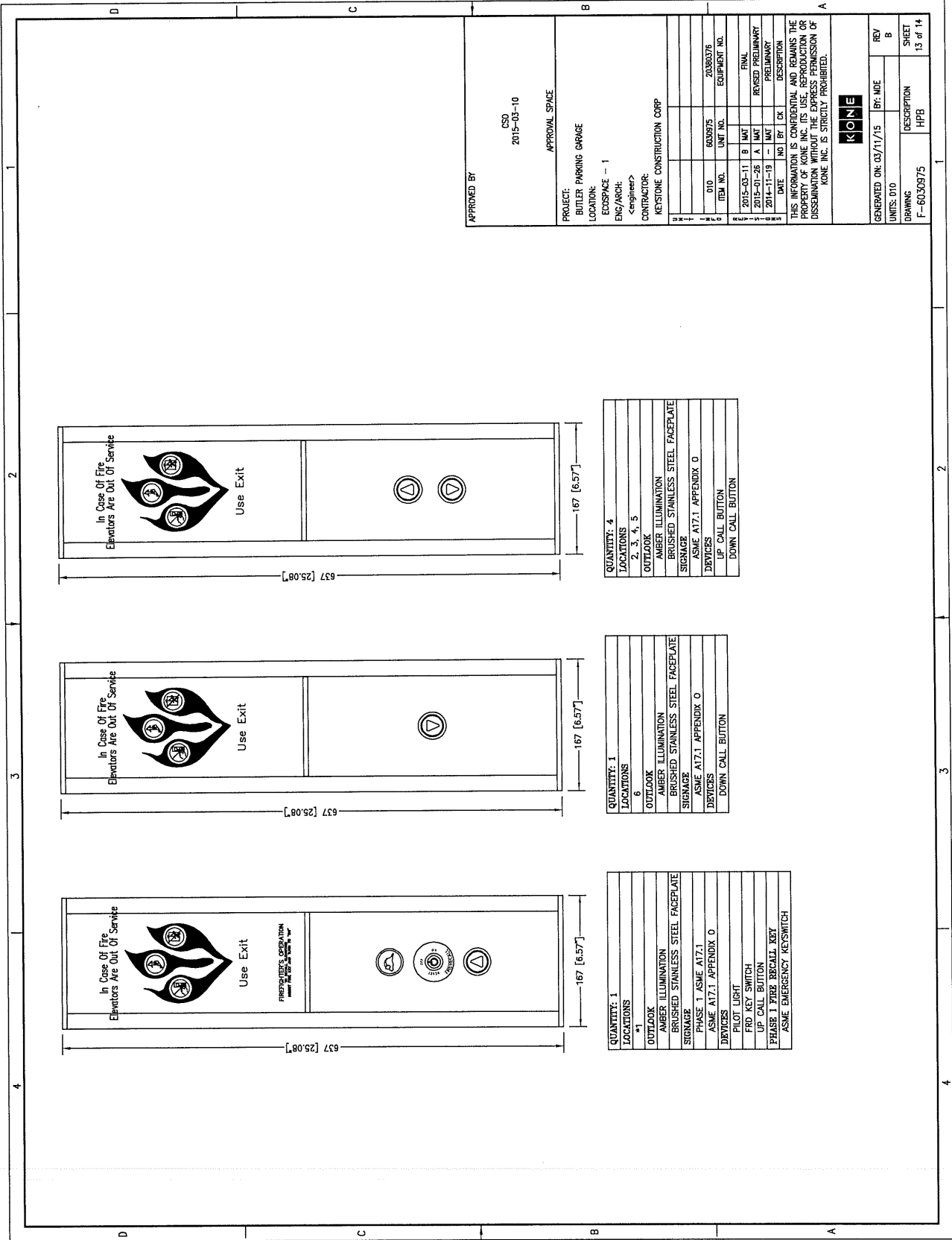
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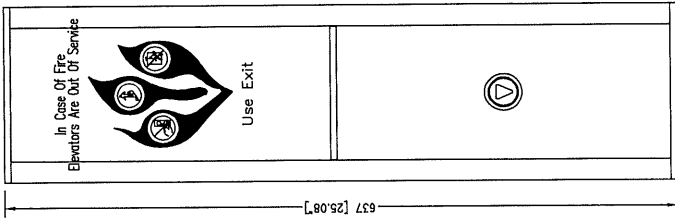
GENERATED ON: 03/11/15 BY: MDE REV B

UNITS: D10

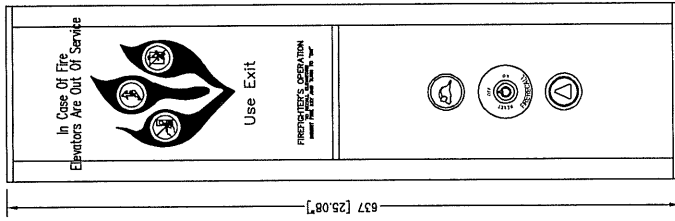
DRAWING DESCRIPTION SHEET
F-6030975 COP 12 of 14



QUANTITY:	4
LOCATIONS:	2, 3, 4, 5
OUTLOOK:	AMBER ILLUMINATION
SIGNAGE:	BRUSHED STAINLESS STEEL FACEPLATE
DEVICES:	ASME A17.1 APPENDIX O
	UP CALL BUTTON
	DOWN CALL BUTTON



QUANTITY:	1
LOCATIONS:	6
OUTLOOK:	AMBER ILLUMINATION
SIGNAGE:	BRUSHED STAINLESS STEEL FACEPLATE
DEVICES:	ASME A17.1 APPENDIX O
	DOWN CALL BUTTON



QUANTITY:	1
LOCATIONS:	#1
OUTLOOK:	AMBER ILLUMINATION
SIGNAGE:	BRUSHED STAINLESS STEEL FACEPLATE
DEVICES:	PHASE 1 ASME A17.1
	ASME A17.1 APPENDIX O
	PILOT LIGHT
	FRO KEY SWITCH
	UP CALL BUTTON
	PHASE 1 FIRE RECALL KEY
	ASME EMERGENCY KEYSWITCH

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<signature>

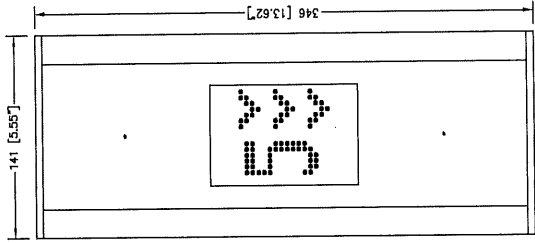
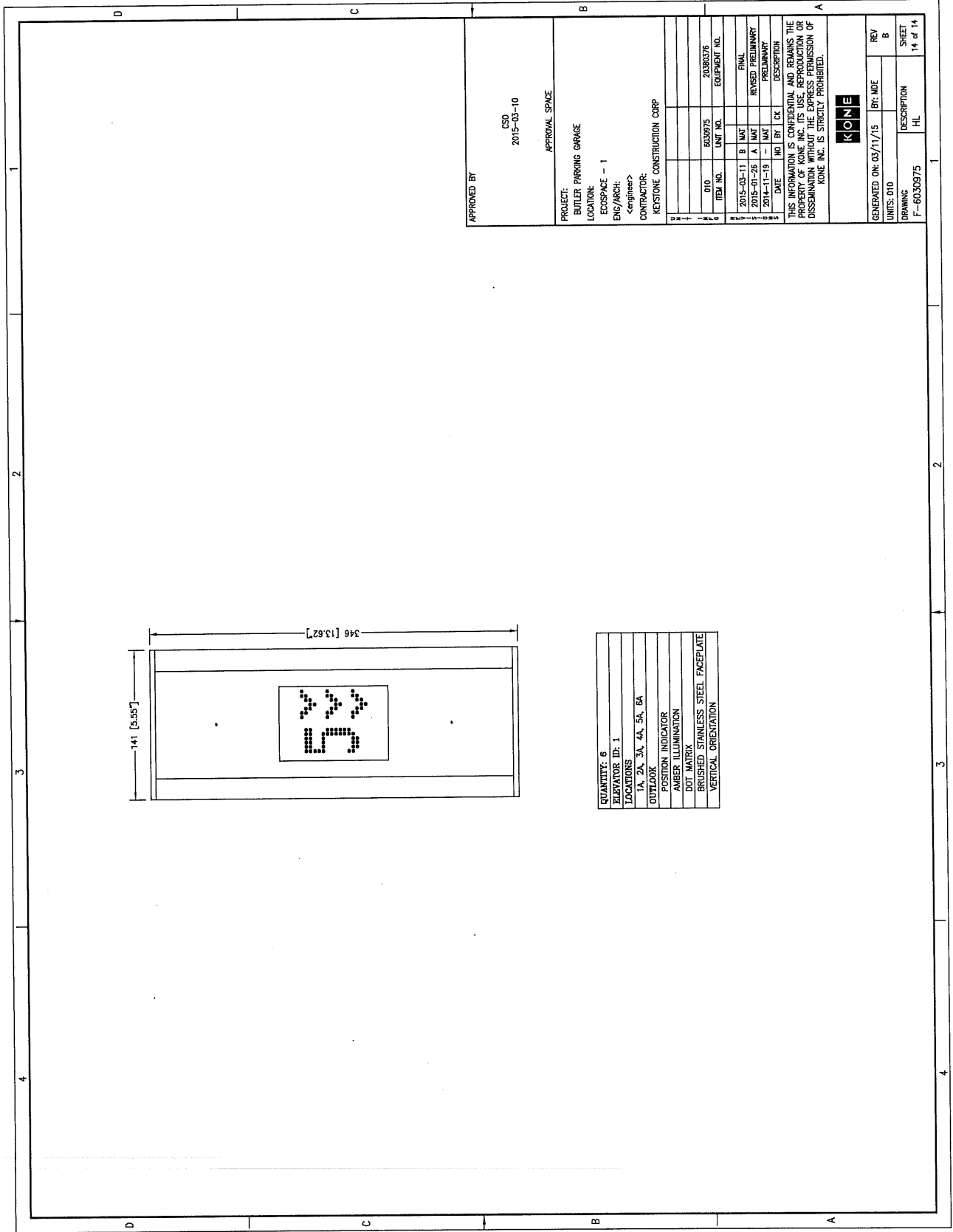
CONTRACTOR:
KEystone CONSTRUCTION CORP

D10	6030975	20380076		
ITEM NO.	UNIT NO.	EQUIPMENT NO.		
2015-03-11	B	MMT		
2015-01-26	A	MMT		
2014-11-19	-	MMT		
DATE	NO	BY	CK	DESCRIPTION
				FINAL
				REVISED PRELIMINARY
				PRELIMINARY

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KONE

GENERATED ON:	03/11/15	BY:	MJE	REV	B
UNITS:	D10				
DRAWING	F-6030975	DESCRIPTION	HPB	SHEET	13 of 14



QUANTITY:	6
ELEVATOR ID:	1
LOCATIONS:	1A, 2A, 3A, 4A, 5A, 6A
OUTLOOK:	
POSITION INDICATOR:	
AMBER ILLUMINATION:	
DOT MATRIX:	
BRUSHED STAINLESS STEEL FACEPLATE:	
VERTICAL ORIENTATION:	

APPROVED BY: _____

CSD
2015-03-10

APPROVAL SPACE

PROJECT:
BUTLER PARKING GARAGE

LOCATION:
ECCSPACE - 1

ENG/ARCH:
<engineer>

CONTRACTOR:
KEYSTONE CONSTRUCTION CORP

ITEM NO.	UNIT NO.	EQUIPMENT NO.	DATE	REV	BY	CK	DESCRIPTION
1							FINAL
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3							PRELIMINARY
4							

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KONE

GENERATED ON: 03/11/15 BY: MDE REV B

UNITS: D10

DRAWING: F-6030975 DESCRIPTION: HL

SHEET: 14 of 14