

NOTE:

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" [10mm] CADMIUM PLATED LAG BOLTS NOT OVER 12" [300mm] ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
3. RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

01 POWER ROOF VENTILATOR
1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL CARRY OUT AND ENFORCE ALL SAFETY REQUIREMENTS AS PER OSHA & VA STANDARDS.
2. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND NEW INSTALLATION PRIOR TO ANY DE-ENERGIZING OR REMOVAL TO VERIFY THAT SUCH DOES NOT AFFECT THE CONTINUED OPERATION OF THE FACILITY.
3. CONTRACTOR SHALL MAINTAIN THE AREA IN AN ORDERLY ARRANGEMENT ALLOWING ADEQUATE ARE FOR WORK AND TRAFFIC.
4. CONTRACTOR RESPONSIBLE TO OBTAIN COMPLETE SET OF PROJECT DRAWINGS & SPECIFICATIONS. CONTRACTOR RESPONSIBLE TO COORDINATE ALL WORK WITH ALL OTHER TRADES. VA SHALL NOT BE RESPONSIBLE FOR LACK OF COORDINATION BETWEEN TRADES.
5. *AFTER HOURS* SHALL BE DEFINED AS MON.-FRI. 4:30PM TIL 8PM, AND WEEKENDS & FEDERAL HOLIDAYS 8AM TIL 8PM.
6. CONTRACTOR TO COORDINATE ALL CORE DRILLING & HAMMER DRILLING WITH COTR PRIOR TO STARTING. ALL CORE DRILLING & HAMMER DRILLING WILL BE PERFORMED DURING AFTER HOURS.
7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT WORKERS, EQUIPMENT AND THE PUBLIC THROUGHOUT CONSTRUCTION PERIOD.
8. CONTRACTOR TO COORDINATE ALL CONNECTION/DISCONNECTION OR DISTURBANCE OF UTILITIES WITH ADJACENT FLOORS WITH COR. ANY WORK THAT WILL IMPACT SPACES OUTSIDE OF CONSTRUCTION ZONE SHALL BE PERFORMED AFTER HOURS.
9. CONTRACTOR SHALL OFFER ANY REMOVED EQUIPMENT (I.E. DIFFUSERS, VAV BOXES, VALVES, SINKS, WATER CLOSETS, LIGHT FIXTURES, SIGNAGE, ETC.) TO VA PRIOR TO DEMOLITION. IF THE VA DECIDES TO RETAIN ANY EQUIPMENT, CONTRACTOR SHALL BE RESPONSIBLE TO DISCONNECT EQUIPMENT AND TRANSPORT TO VA'S DESIRED LOCATION IN BUILDING 1. ANY EQUIPMENT TO BE DEMOLISHED WHICH IS NOT RETAINED BY THE VA SHALL BE REMOVED AND DISPOSED OF OFF SITE BY CONTRACTOR IN A LEGAL FASHION.
10. SHOP DRAWINGS OF ALL EQUIPMENT USED IN NEW WORK SHALL BE SUBMITTED TO ARCHITECT / ENGINEER FOR APPROVAL PRIOR TO INSTALLATION IN THE FIELD.

MECHANICAL EQUIPMENT:

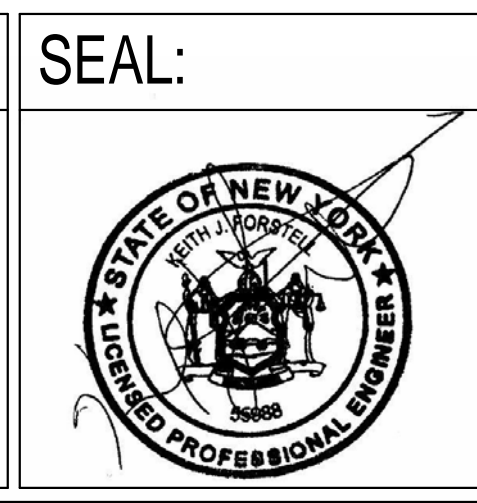
- 1) F-1 EXHAUST FAN TO BE GREENHECK MODEL G-085, 600 CFM, 15" STATIC, 120V/60HZ, 12" HIGH ROOF CURB, OR APPROVED EQUAL. PROVIDE LINE VOLTAGE THERMOSTAT WITH VANDAL RESISTANT COVER. REFER TO MECHANICAL PLANS FOR LOCATION.
- 2) LVR-1 INTAKE LOUVER TO BE RUSON MODEL ELES75DX, 24" X 24" 54% FREE AREA OR APPROVED EQUAL. PROVIDE MOTOR OPERATED DAMPER. DAMPER SHALL OPEN WHEN FAN F-1 IS ENERGIZED.
- 3) PTAC-1 PACKAGED TERMINAL AIR CONDITIONER (PTAC) HEAT PUMP WITH AUX. ELECTRIC HEAT. 345CFM, 7.7MBH COOLING, 6.3MBH HEATING, 208V/1PH/60HZ. FRIEDRICH MODEL PDH7K25, OR APPROVED EQUAL, WITH STANDARD WALL SLEEVE.

LEGEND	
○	NEW ELECTRONIC LINE VOLTAGE THERMOSTAT
●	LIMIT OF DEMOLITION
⊗	CONNECTION TO EXISTING UTILITIES
EF	EXHAUST FAN
CF	CIRCULATING FAN
AC	AIR CONDITIONER
CU	CONDENSING UNIT
CO	CARBON MONOXIDE DETECTOR
SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER
SD	SUPPLY DIFFUSER
RG	RETURN GRILLE
IBC	INTERNATIONAL BUILDING CODE
TYP	TYPICAL

three inches = one foot
one and one half inches = one foot
one inch = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot

Revisions:	Date	
4	100% Submission	02/16/15
3	95% Submission	08/28/14
2	65% Submission	08/07/14

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Drawing Title MECHANICAL NOTES & LEGENDS
Approved: Project Director - - -

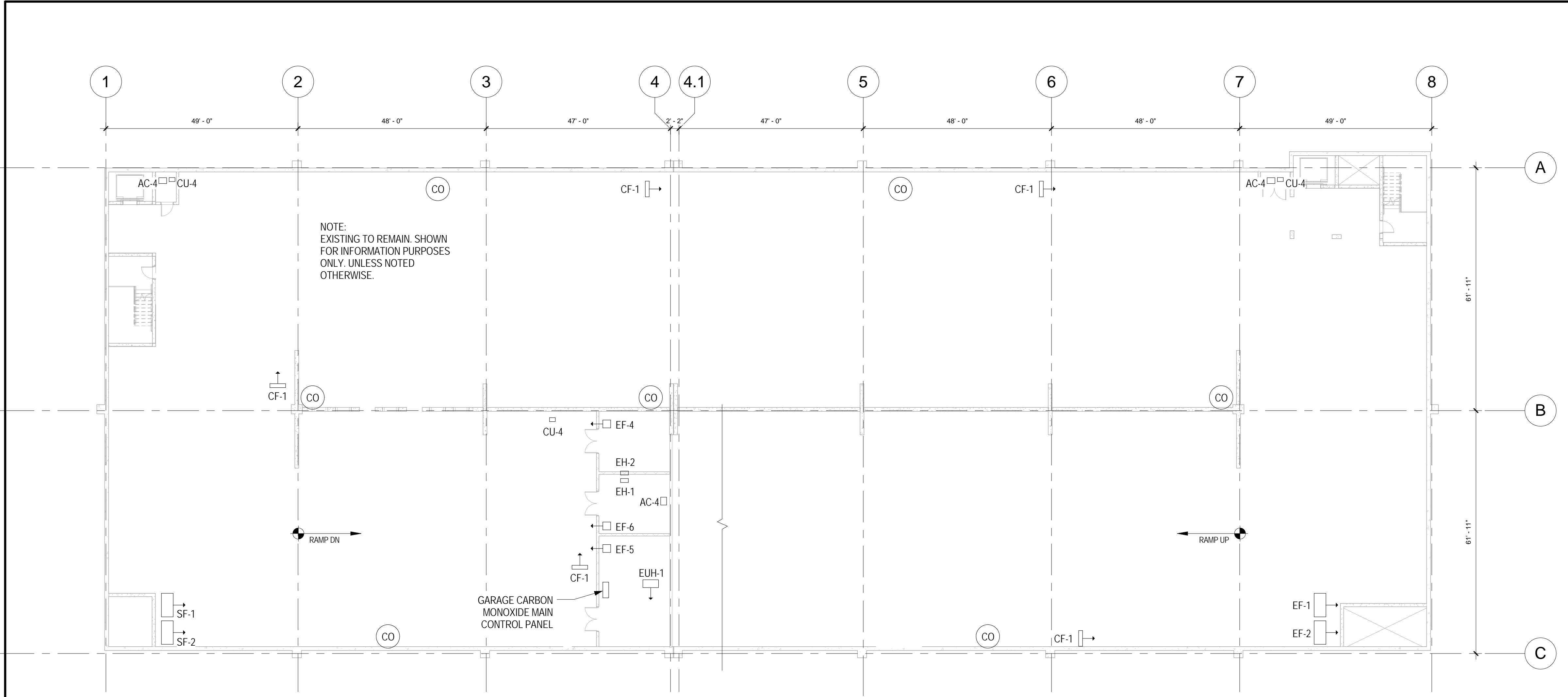
Project Title DC VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	Project Number 688-345
Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number -
Date 02/16/15	Drawing Number M0.0
Checked DD	Drawn DD
Dwg. 58 of 89	

As indicated

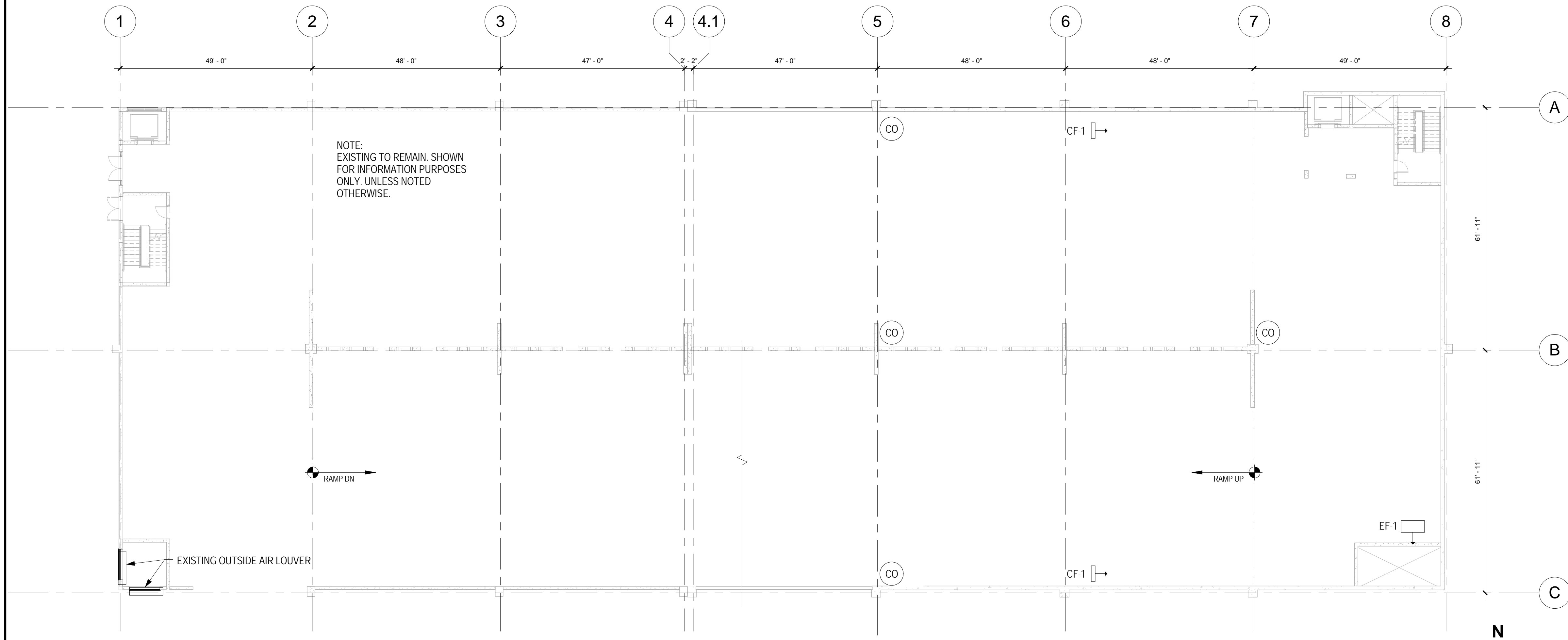
Office of
Construction
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Department of
Veterans Affairs

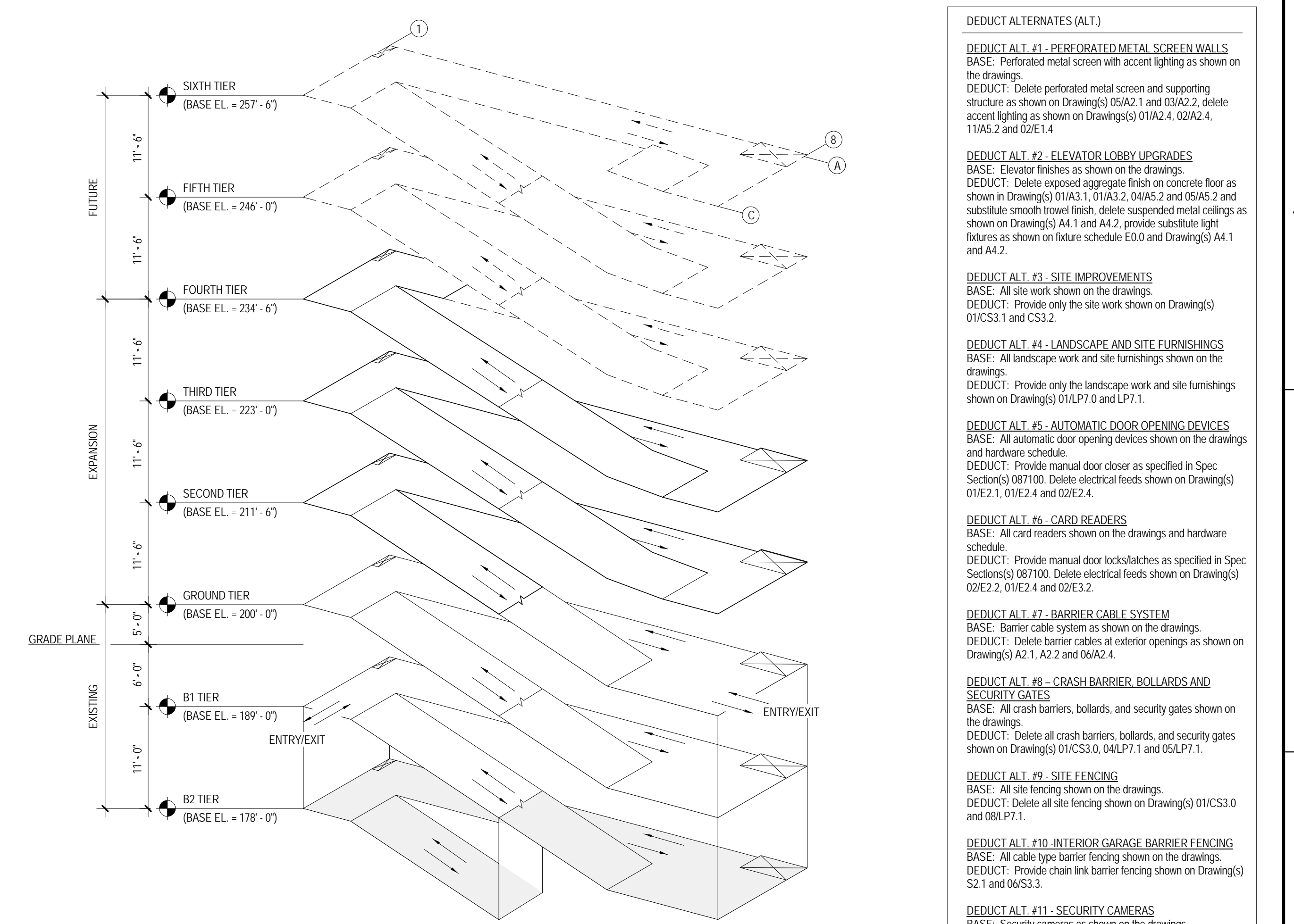
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 one sixteenth inch = one foot



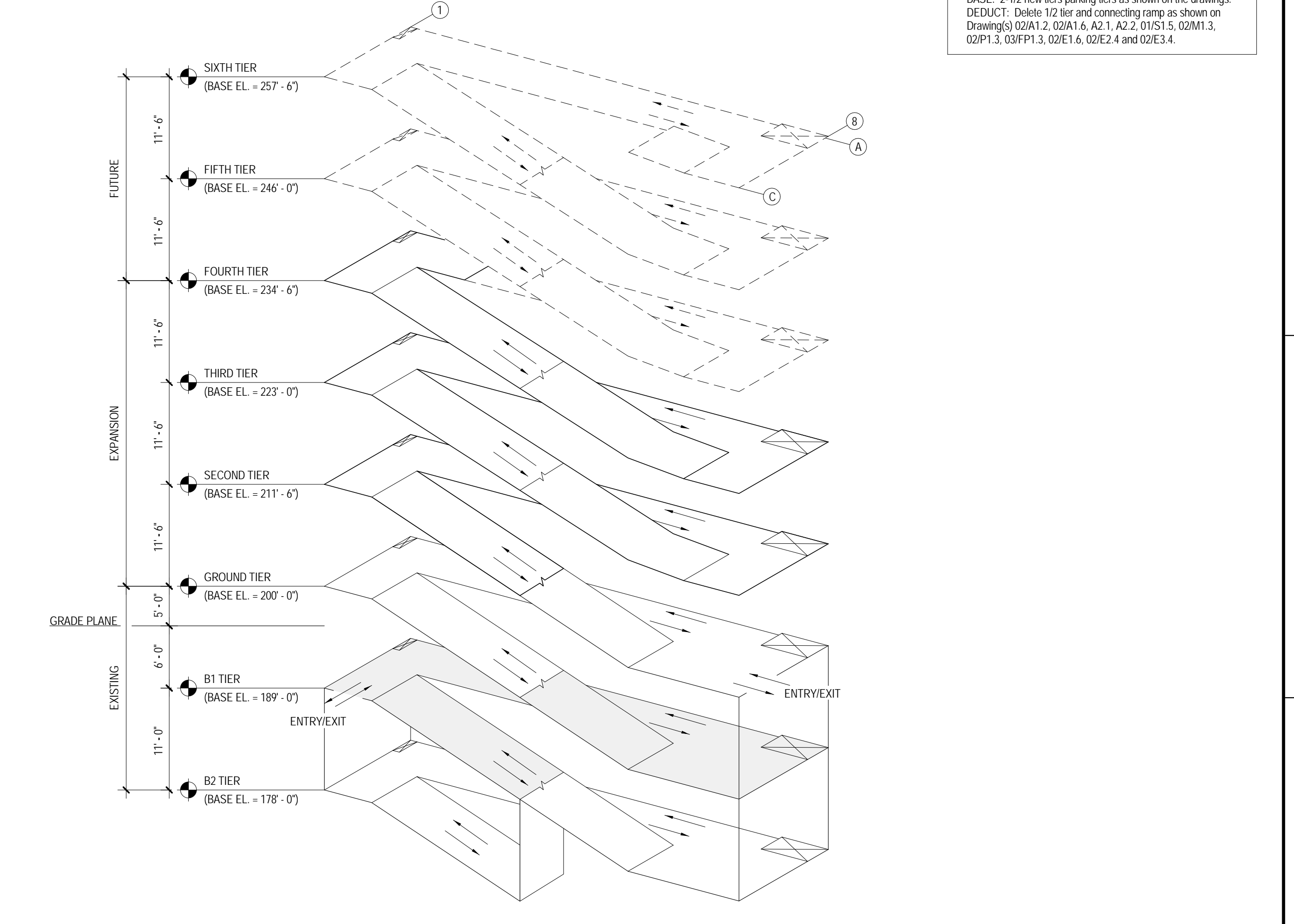
01 B2 TIER MECHANICAL PLAN - EXISTING
 1/16" = 1'-0"



02 B1 TIER MECHANICAL PLAN - EXISTING
 1/16" = 1'-0"



KEY PLAN ISOMETRIC



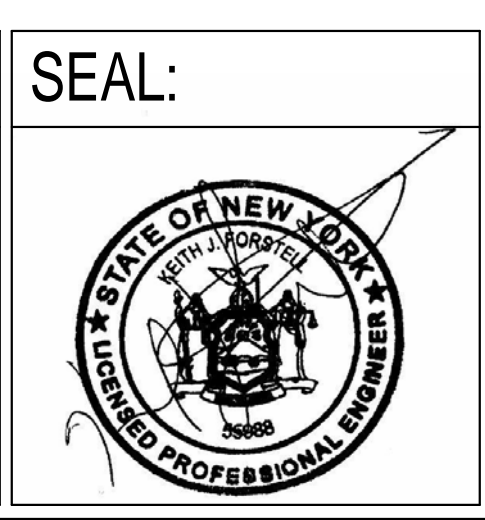
KEY PLAN ISOMETRIC

- DEDUCT ALTERNATES (ALT)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
 BASE: Perforated metal screen with accent lighting as shown on the drawings.
 DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05A2.1 and 03A2.2, delete accent lighting as shown on Drawing(s) 01A2.4, 02A2.4, 11A2.2 and 02E1.4.
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADS**
 BASE: Elevator finishes as shown on the drawings.
 DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing(s) 01A3.1, 01A3.2, 04A5.2 and 05A5.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on future schedule E0.0 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
 BASE: All site work shown on the drawings.
 DEDUCT: Provide only the site work shown on Drawing(s) 01C53.1 and C53.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
 BASE: All landscape work and site furnishings shown on the drawings.
 DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LPT.0 and LPT.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
 BASE: All automatic door opening devices shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door closer as specified in Spec Section(s) 081100. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
 BASE: All card readers shown on the drawings and hardware schedule.
 DEDUCT: Provide manual door lockslatches as specified in Spec Section(s) 081100. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
 BASE: Barrier cable system as shown on the drawings.
 DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
 BASE: All crash barriers, bollards, and security gates shown on the drawings.
 DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01C53.0, 04LPT.1 and 05LPT.1.
 - DEDUCT ALT. #9 - SITE FENCING**
 BASE: All site fencing shown on the drawings.
 DEDUCT: Delete all site fencing shown on Drawing(s) 01C53.0 and 08LPT.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
 BASE: All cable type barrier fencing shown on the drawings.
 DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
 - DEDUCT ALT. #11 - SECURITY CAMERAS**
 BASE: Security cameras as shown on the drawings.
 DEDUCT: Delete security cameras and accessories (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT. #12 - LED LIGHTING**
 BASE: LED lighting as shown on the drawings.
 DEDUCT: Provide substitute light fixtures as shown on future schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT. #13 - SECURITY BOOTH**
 BASE: Security booth as shown on the drawings.
 DEDUCT: Delete security booth and accessories shown on Drawing(s) A4.3, 02E1.4, 03E2.2 and 01E2.3.
 - DEDUCT ALT. #14 - PARKING LINES**
 BASE: 2 1/2 inch low lying parking lines as shown on the drawings.
 DEDUCT: Delete 1/2 inch and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 03P1.3, 03P1.3, 02E1.6, 02E2.4 and 02E3.4.

4	100% Submission	02/16/15
3	95% Submission	08/28/14
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Revisions:		Date

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STRUCTURAL ENGINEER Tim Haahr & Associates, Inc. 550 Towhunst Avenue, Suite 315 Baltimore, MD 21210	MEP ENGINEER DCS Infrastructure, Inc. 336 Rogerson Road Sparks, MD 21152	CIVIL ENGINEER KCI Technologies, Inc. 336 Rogerson Road Sparks, MD 21152



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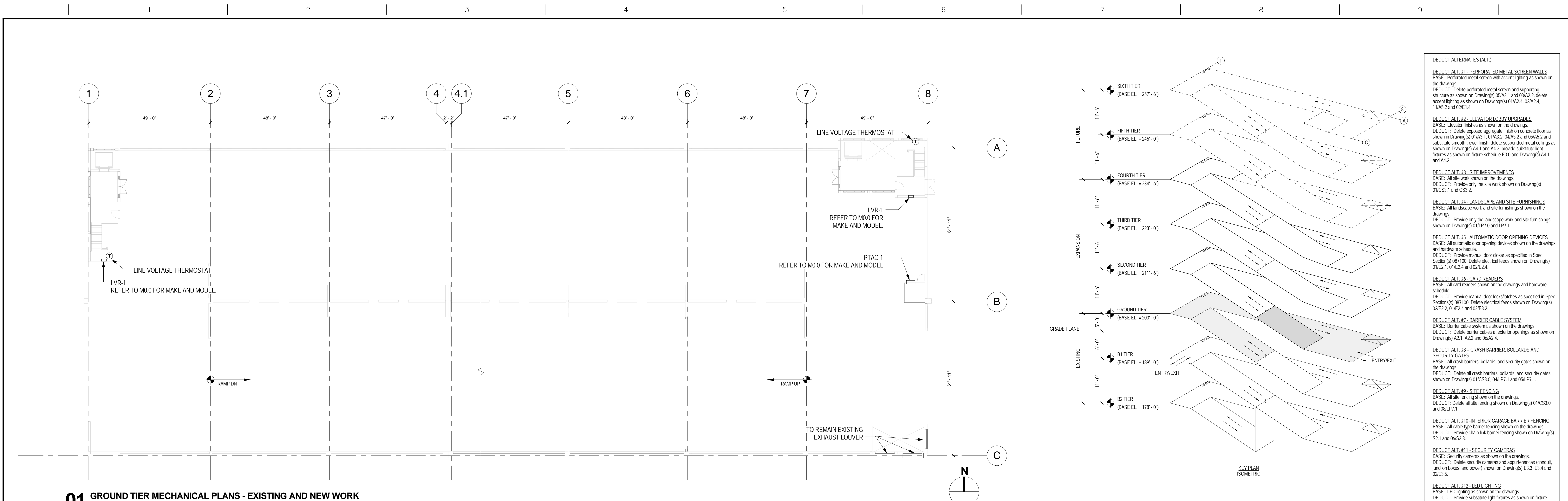
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Drawing Title B2 & B1 TIER MECHANICAL PLANS - EXISTING	Project Title DC VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1	Project Number 688-345
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.	Building Number
Date 02/16/15	Checked DD	Drawn MM

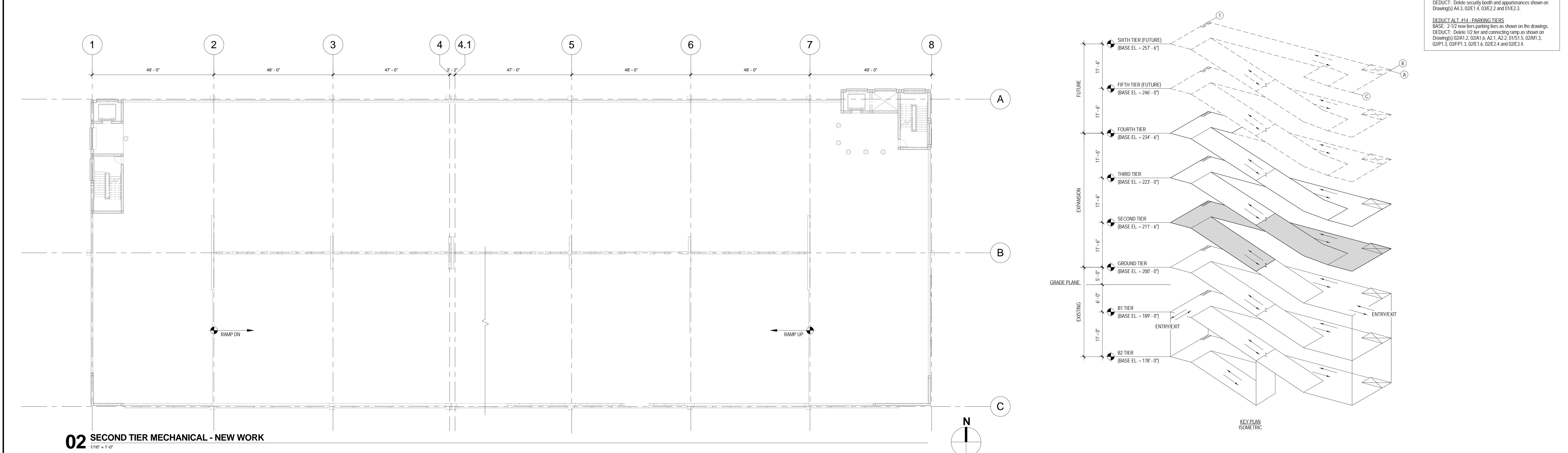
Drawing Number M1.1	Dwg. 59 of 89
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Office of
Construction
and Facilities
Management

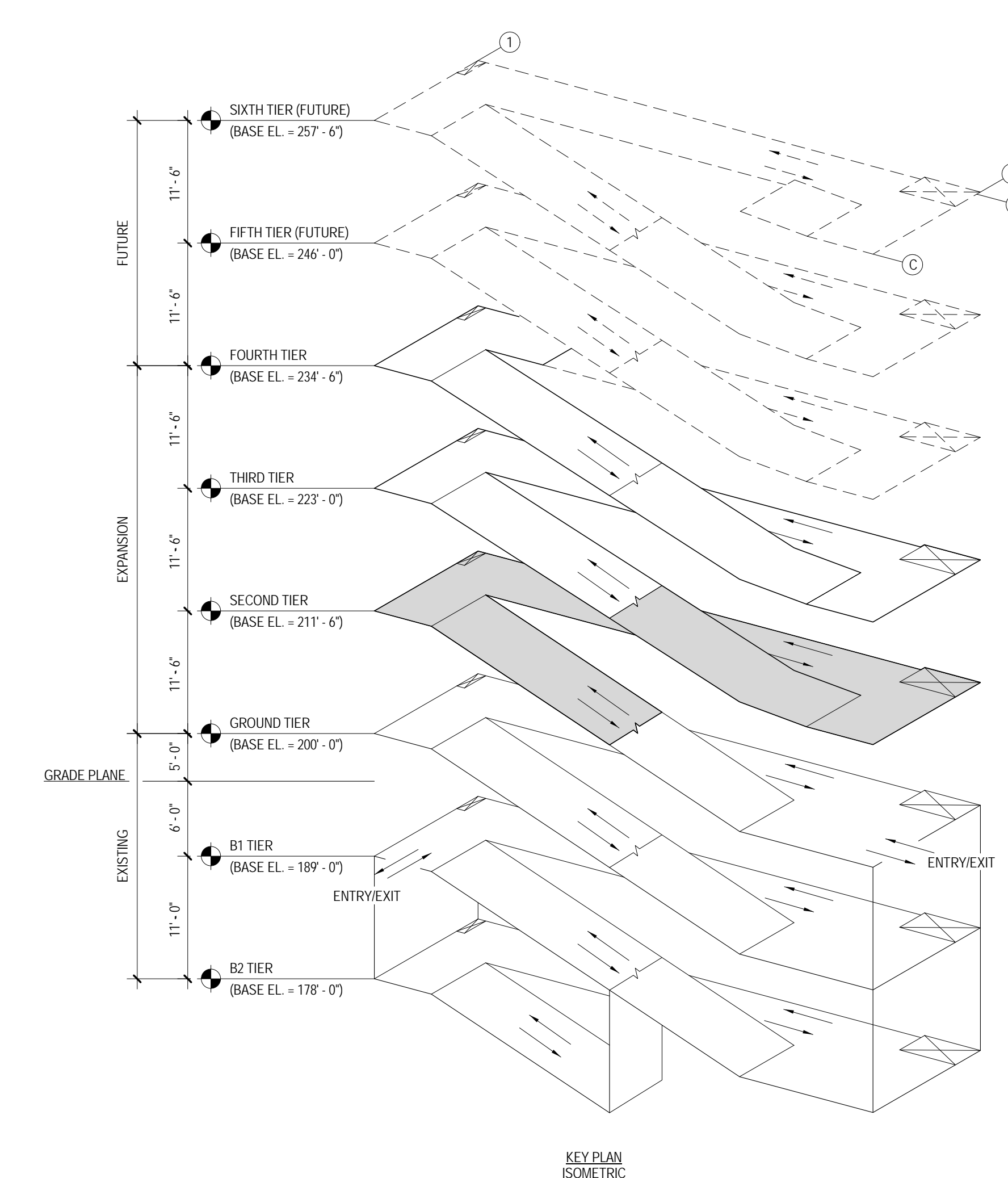
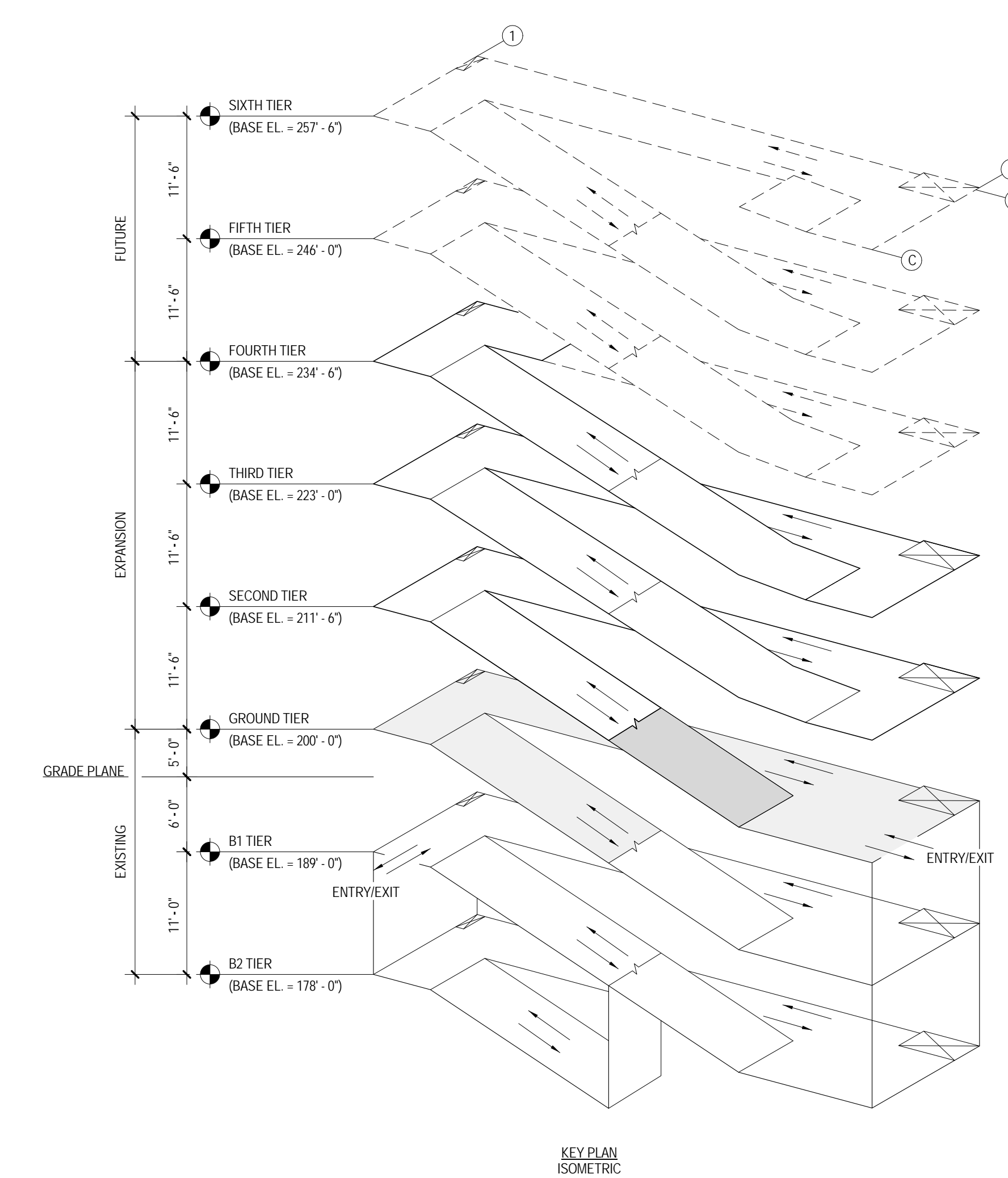
Department of
Veterans Affairs



01 GROUND TIER MECHANICAL PLANS - EXISTING AND NEW WORK
1/16" = 1'-0"



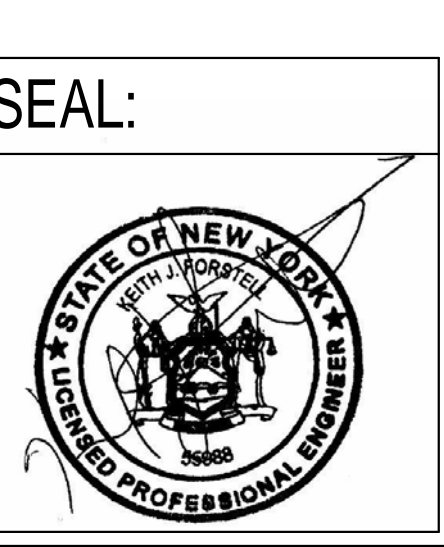
02 SECOND TIER MECHANICAL - NEW WORK
1/16" = 1'-0"



- DEDUCT ALTERNATES (ALT)**
- DEDUCT ALT #1 - PERFORATED METAL SCREEN WALLS**
BASE: Perforated metal screen with accent lighting as shown on the drawings.
DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawings 01A2.1 and 02A2.2, delete accent lighting as shown on Drawings 01A2.4, 02A2.4, 11A5.2 and 02E1.4
 - DEDUCT ALT #2 - ELEVATOR LOBBY UPGRADES**
BASE: Elevator finishes as shown on the drawings.
DEDUCT: Delete exposed aggregate finish on concrete floor as shown in Drawing 01A1.1, 01A3.2, 04A5.2 and 05A5.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawings A4.1 and A4.2, provide subsillie light fixtures as shown on fixture schedule E3.0 and Drawings A4.1 and A4.2.
 - DEDUCT ALT #3 - SITE IMPROVEMENTS**
BASE: All site work shown on the drawings.
DEDUCT: Provide only the site work shown on Drawing(s) 01CS3.1 and CS3.2.
 - DEDUCT ALT #4 - LANDSCAPE AND SITE FURNISHINGS**
BASE: All landscape work and site furnishings shown on the drawings.
DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LP7.0 and LP7.1.
 - DEDUCT ALT #5 - AUTOMATIC DOOR OPENING DEVICES**
BASE: All automatic door opening devices shown on the drawings and hardware schedule.
DEDUCT: Provide manual door closer as specified in Spec Section 087100. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT #6 - CARD READERS**
BASE: All card readers shown on the drawings and hardware schedule.
DEDUCT: Provide manual door locksets as specified in Spec Section 087100. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.7.
 - DEDUCT ALT #7 - BARRIER CABLE SYSTEM**
BASE: Barrier cable system as shown on the drawings.
DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 05A2.4.
 - DEDUCT ALT #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
BASE: All crash barriers, bollards, and security gates shown on the drawings.
DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01CS3.0, 04LP7.1 and 05LP7.1.
 - DEDUCT ALT #9 - SITE FENCING**
BASE: All site fencing shown on the drawings.
DEDUCT: Delete all site fencing shown on Drawing(s) 01CS3.0 and 05LP7.1.
 - DEDUCT ALT #10 - INTERIOR GARAGE BARRIER FENCING**
BASE: All cable type barrier fencing shown on the drawings.
DEDUCT: Provide chain link barrier fencing shown on Drawing(s) S2.1 and 06S3.3.
 - DEDUCT ALT #11 - SECURITY CAMERAS**
BASE: Security cameras as shown on the drawings.
DEDUCT: Delete security cameras and apparatuses (conduit, junction boxes, and power) shown on Drawing(s) E3.3, E3.4 and 02E3.5.
 - DEDUCT ALT #12 - LED LIGHTING**
BASE: LED lighting as shown on the drawings.
DEDUCT: Provide substitute light fixtures as shown on fixture schedule E0.0 and as shown on Drawing(s) E1.4, E1.5 and E1.6.
 - DEDUCT ALT #13 - SECURITY BOOTH**
BASE: Security booth as shown on the drawings.
DEDUCT: Delete security booth and apparatuses shown on Drawing(s) A4.3, 02E1.4, 02E2.2 and 01E2.3.
 - DEDUCT ALT #14 - PARKING TIERS**
BASE: 2-1/2 new tiers parking tiers as shown on the drawings.
DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.5, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

Revisions:	Date	
4	100% Submission	02/16/15
3	95% Submission	08/28/14
2	65% Submission	08/07/14

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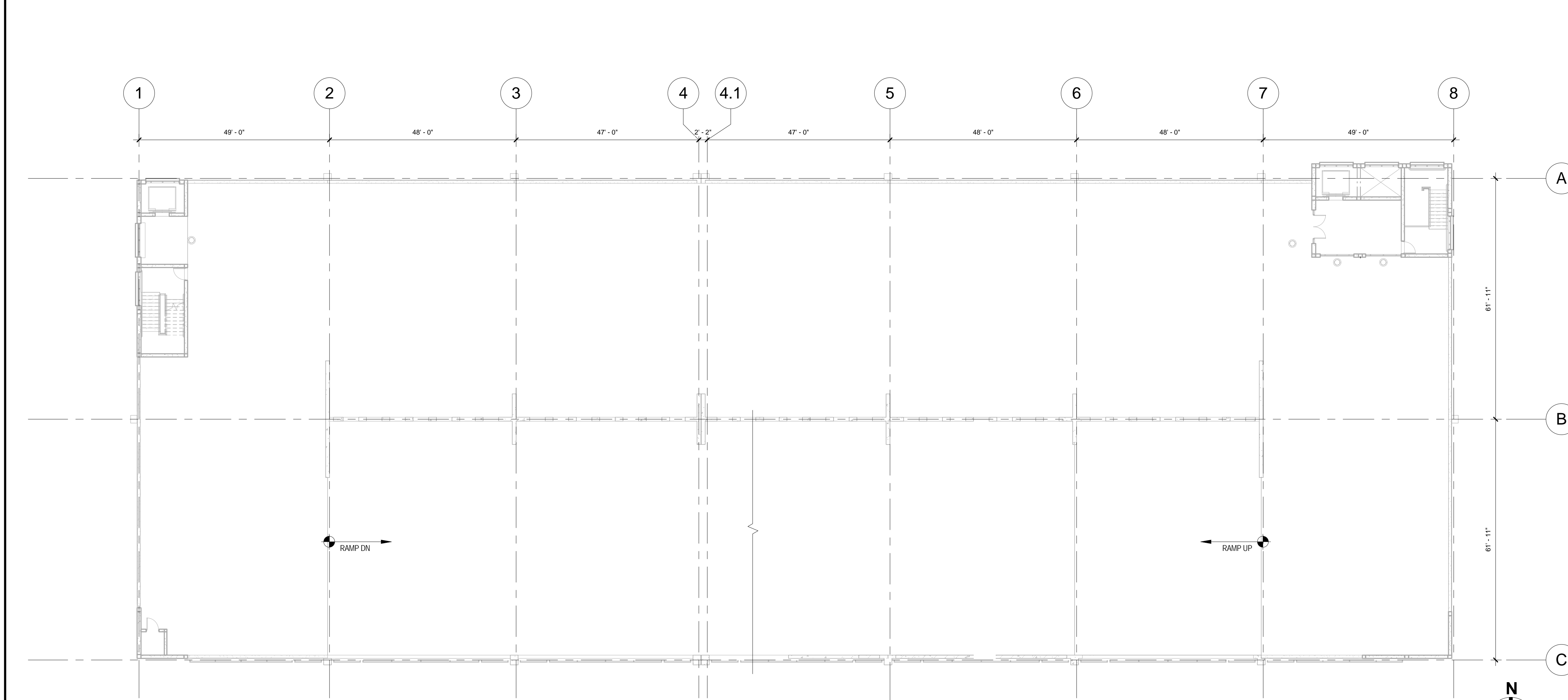
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Drawing Title GROUND & SECOND TIER MECHANICAL PLANS - EXISTING & NEW WORK	Project Title DC VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1
Approved: Project Director	Location 50 IRVING ST. N.W. WASHINGTON, D.C.
	Date 02/16/15
	Checked DD
	Drawn MM

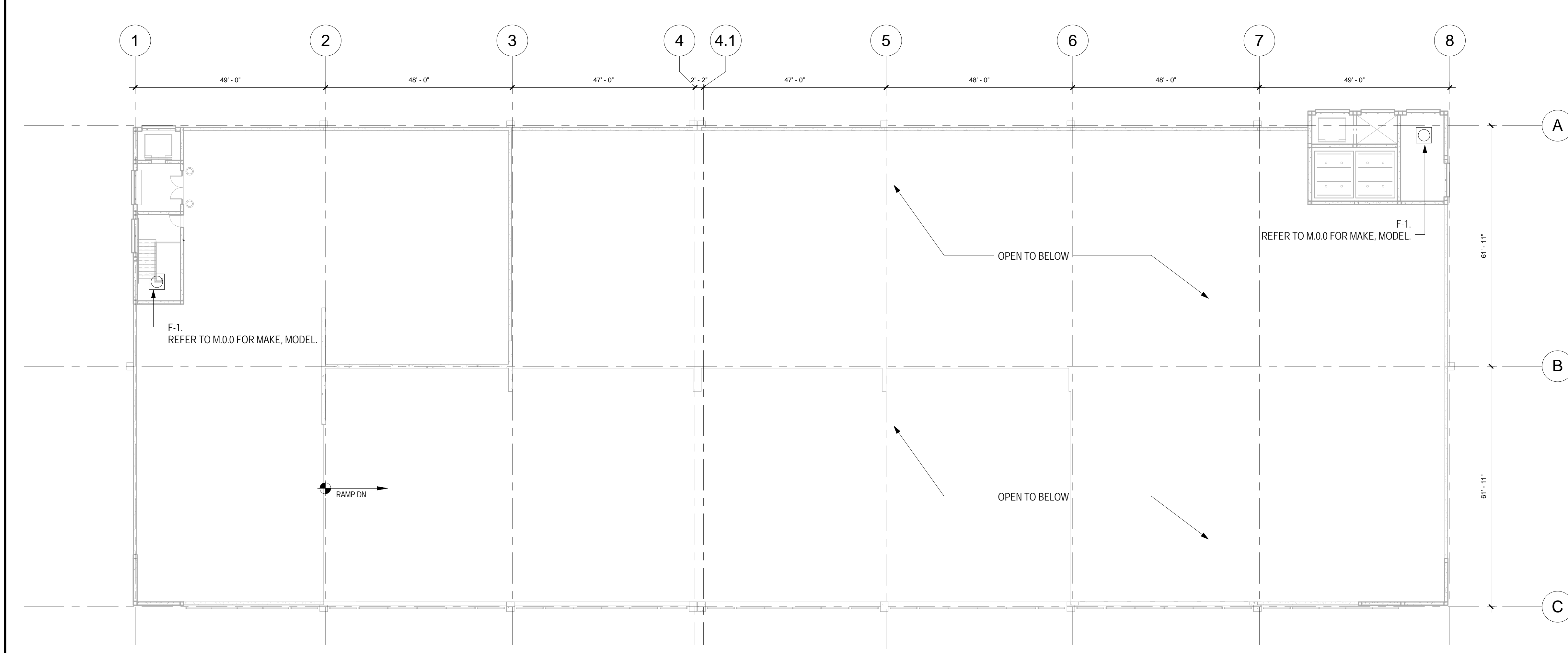
Project Number 688-345	Drawing Number M1.2
Building Number -	Dwg. 60 of 89

Office of Construction and Facilities Management

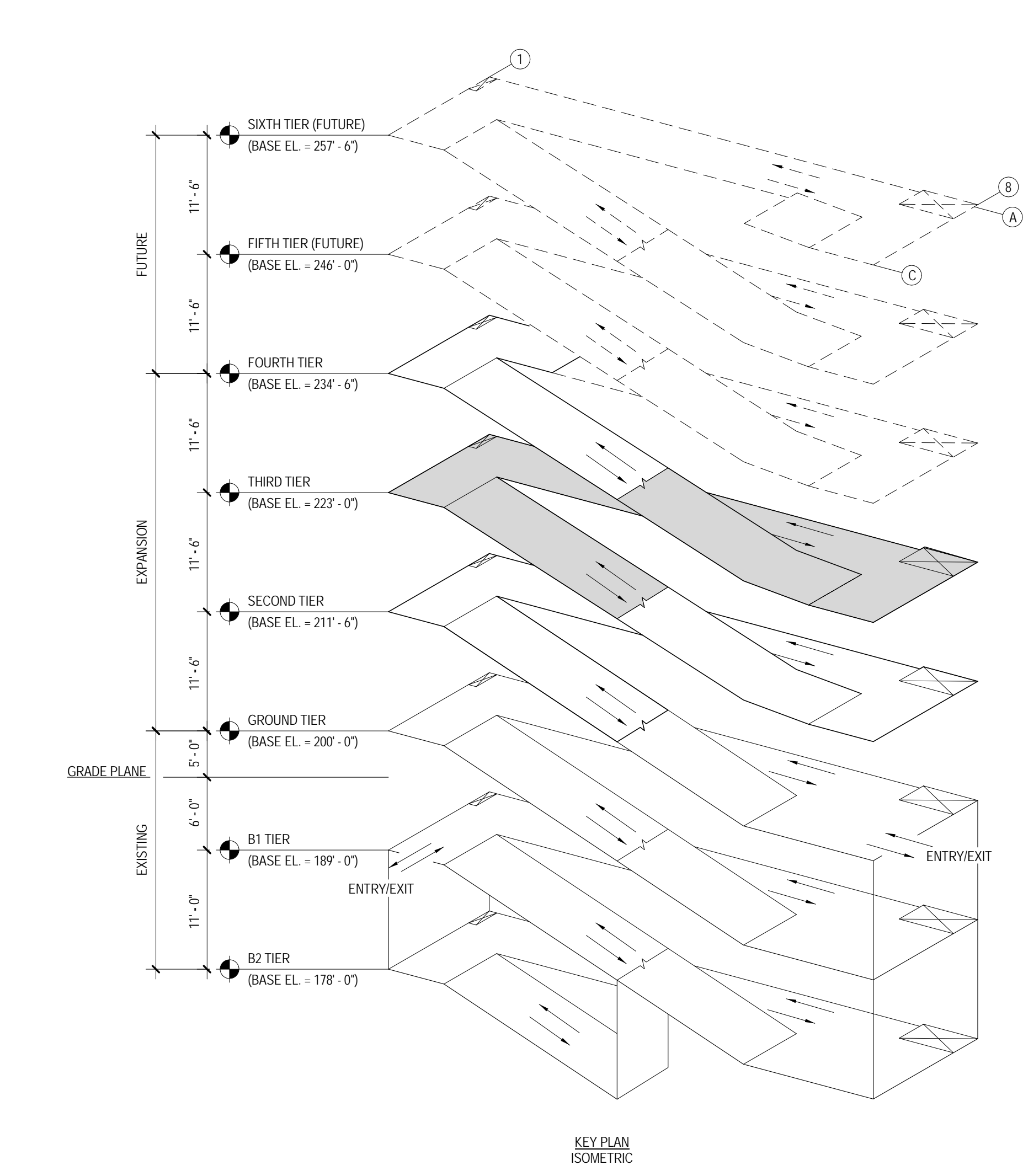
Department of Veterans Affairs



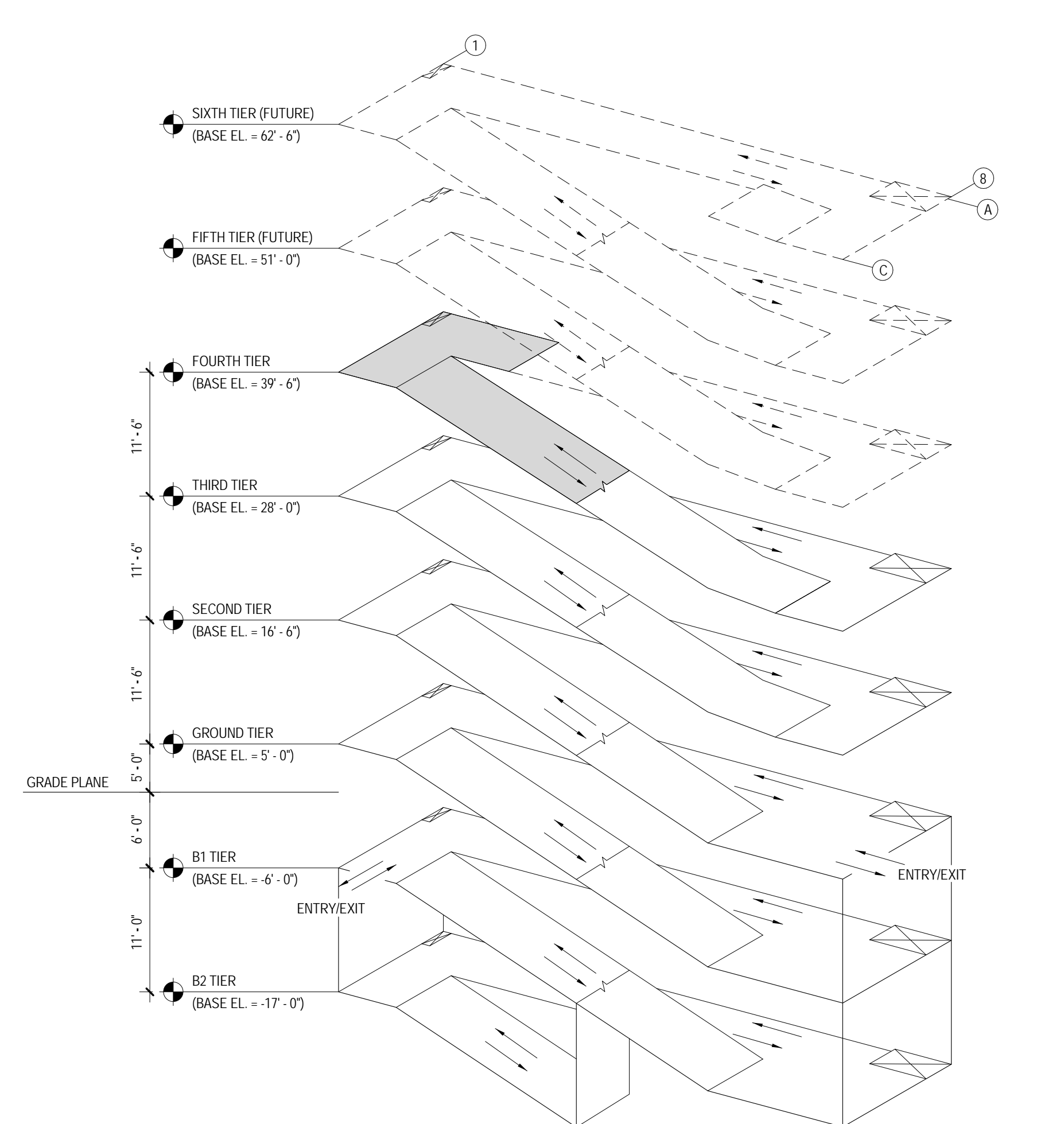
01 THIRD TIER MECHANICAL - NEW WORK
1/16" = 1'-0"



02 FOURTH TIER MECHANICAL PLAN - NEW WORK
1/16" = 1'-0"



KEY PLAN ISOMETRIC

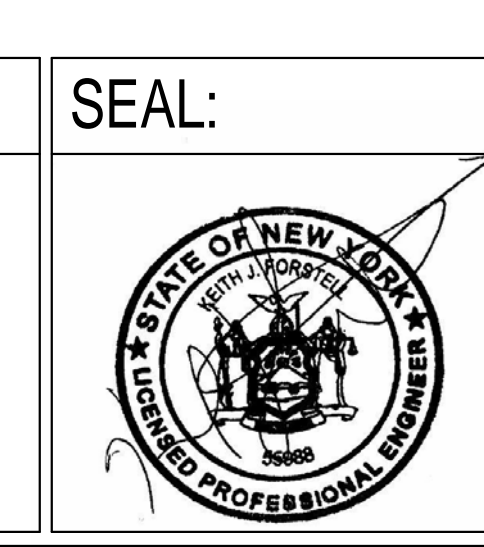


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- DEDUCT ALTERNATES (ALT)**
- DEDUCT ALT. #1 - PERFORATED METAL SCREEN WALLS**
BASE: Perforated metal screen with accent lighting as shown on the drawings.
DEDUCT: Delete perforated metal screen and supporting structure as shown on Drawing(s) 05A2.1 and 03A2.2. Delete accent lighting as shown on Drawing(s) 01A2.4, 02A2.4, 11A2.2 and 02E1.4.
 - DEDUCT ALT. #2 - ELEVATOR LOBBY UPGRADES**
BASE: Elevator finishes as shown on the drawings.
DEDUCT: Delete exposed aggregate finish on concrete floor as shown on Drawing(s) 01A3.1, 01A3.2, 04A5.2 and 05A5.2 and substitute smooth trowel finish, delete suspended metal ceilings as shown on Drawing(s) A4.1 and A4.2, provide substitute light fixtures as shown on future schedule E0.0 and Drawing(s) A4.1 and A4.2.
 - DEDUCT ALT. #3 - SITE IMPROVEMENTS**
BASE: All site work shown on the drawings.
DEDUCT: Provide only the site work shown on Drawing(s) 01VCS3.1 and CS3.2.
 - DEDUCT ALT. #4 - LANDSCAPE AND SITE FURNISHINGS**
BASE: All landscape work and site furnishings shown on the drawings.
DEDUCT: Provide only the landscape work and site furnishings shown on Drawing(s) 01LPT.0 and LP1.1.
 - DEDUCT ALT. #5 - AUTOMATIC DOOR OPENING DEVICES**
BASE: All automatic door opening devices shown on the drawings and hardware schedule.
DEDUCT: Provide manual door closer as specified in Spec Section(s) 08710.0. Delete electrical feeds shown on Drawing(s) 01E2.1, 01E2.4 and 02E2.4.
 - DEDUCT ALT. #6 - CARD READERS**
BASE: All card readers shown on the drawings and hardware schedule.
DEDUCT: Provide manual door locks/latches as specified in Spec Section(s) 08710.0. Delete electrical feeds shown on Drawing(s) 02E2.2, 01E2.4 and 02E3.2.
 - DEDUCT ALT. #7 - BARRIER CABLE SYSTEM**
BASE: Barrier cable system as shown on the drawings.
DEDUCT: Delete barrier cables at exterior openings as shown on Drawing(s) A2.1, A2.2 and 06A2.4.
 - DEDUCT ALT. #8 - CRASH BARRIER, BOLLARDS AND SECURITY GATES**
BASE: All crash barriers, bollards, and security gates shown on the drawings.
DEDUCT: Delete all crash barriers, bollards, and security gates shown on Drawing(s) 01VCS3.0, 04LP1.1 and 05LP1.1.
 - DEDUCT ALT. #9 - SITE FENCING**
BASE: All site fencing shown on the drawings.
DEDUCT: Delete all site fencing shown on Drawing(s) 01VCS3.0 and 06LP1.1.
 - DEDUCT ALT. #10 - INTERIOR GARAGE BARRIER FENCING**
BASE: All cable type barrier fencing shown on the drawings.
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BASE: Security cameras as shown on the drawings.
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BASE: LED lighting as shown on the drawings.
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 - DEDUCT ALT. #13 - SECURITY BOOTH**
BASE: Security booth as shown on the drawings.
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 - DEDUCT ALT. #14 - PARKING TIERS**
BASE: 2-1/2 new tiers parking tiers as shown on the drawings.
DEDUCT: Delete 1/2 tier and connecting ramp as shown on Drawing(s) 02A1.2, 02A1.6, A2.1, A2.2, 01S1.5, 02M1.3, 02P1.3, 03FP1.3, 02E1.6, 02E2.4 and 02E3.4.

Revisions:	Date
4 100% Submission	02/16/15
3 95% Submission	08/28/14
2 65% Submission	08/07/14

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ARCHITECTURE & PLANNING

DCS INFRASTRUCTURE
DESIGN & CONSTRUCTION SERVICES

MTARX

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Drawing Title
THIRD & FOURTH TIER MECHANICAL PLANS - NEW WORK

Approved: Project Director

Project Title
DC VA MEDICAL CENTER EXPAND VISITOR/PATIENT PARKING GARAGE - PHASE 1

Location
50 IRVING ST. N.W. WASHINGTON, D.C.

Date
02/16/15

Checked
DD

Drawn
DD

Project Number
688-345

Building Number
-

Drawing Number
M1.3

Dwg. 61 of 89

Office of Construction and Facilities Management

Department of Veterans Affairs