HELLMUTH, OBATA + KASSABAUM, L.P.

ARCHITECTURE, ENGINEERING, PLANNING
INTERIORS, GRAPHICS, CONSULTING

580-317 PARKING GARAGE A PHASE I

2002 Holcombe Blvd.
Houston, TX. 77030

Prepared for
MICHAEL E. DEBAKEY VA MEDICAL CENTER

Issue Information
ISSUE FOR ADDENDUM No. 001
01/19/2012

Dedicated to Design Excellence and the Team Approach

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○ SHEET PREVIOUSLY ISSUED

01	ISSUE FOR BID	08/08/2011
1	ADDENDUM No. 001	01/19/2012
Revisions:		Date:

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01-19-2012

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Drawing Title: DRAWING SHEET INDEX

Project Title: 580-317 PARKING GARAGE A PHASE I

Project Number: 580-317
HOK Project No. 10.10019.00

Building Number: A

Approved: Project Director
2002 Holcombe Blvd.
Houston, TX. 77030

Location: VAMC | HOUSTON, TX.

Date: 01/19/2012

Checked: R.GEORGE

Drawn: R.RODGERS

Drawing Number: GP001

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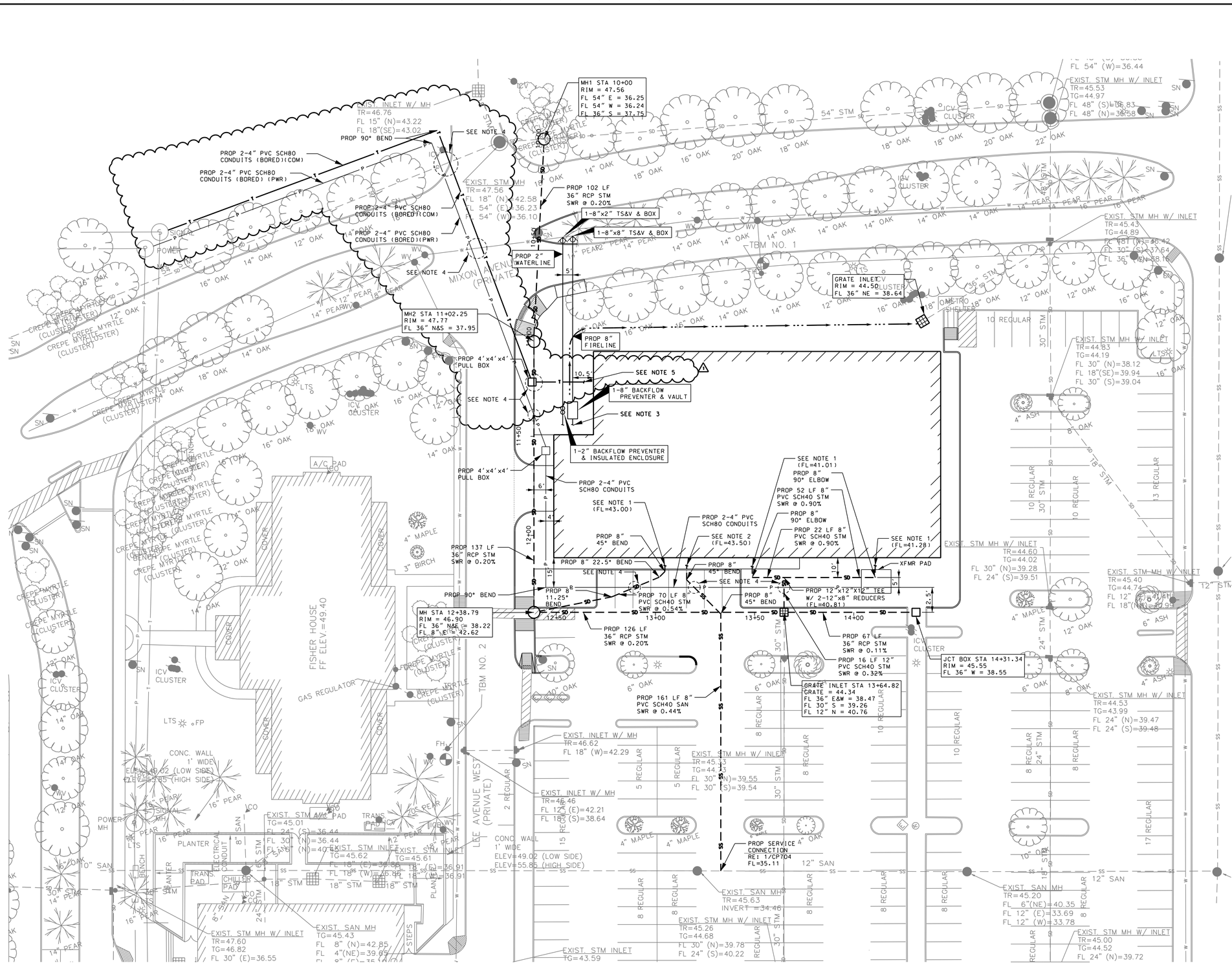
Department of Veterans Affairs

VA FORM 08-6231

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



1 UTILITY PLAN
SCALE: 1" = 20'

BENCHMARK

FLOODPLAIN REFERENCE MARK NUMBER 040105 IS A HCFCD BRASS DISK STAMPED D100 BM14 ON BRIDGE AT BRAESWOOD BOULEVARD AND BRAYS BAYOU, S. OF HOLCOMBE BOULEVARD LOCATED ON DOWNSTREAM, E. SIDEWALK OF BRIDGE, AT STREAM CENTER IN KEYMAP 533E IN THE BRAYS WATERSHED NEAR STREAM D100-00-00.

ELEVATION 43.679 FEET — NAVD 1988, 2001 ADJUSTED

NOTES

1. PROPOSED BUILDING STORM SEWER ROOF DRAIN CONNECTION. (RE: MEP DWGS)
2. PROPOSED BUILDING SANITARY SEWER CONNECTION. (RE: MEP DWGS)
3. PROPOSED DOMESTIC AND FIRE WATER CONNECTION. (RE: MEP DWGS)
4. PROVIDE MINIMUM 18" VERTICAL CLEARANCE BETWEEN OUTSIDE WALLS OF DUCT BANKS AND PIPED UTILITIES, 24" VERTICAL CLEARANCE PREFERRED.
5. PROPOSED BUILDING VOICE, FIBER, & FIRE ALARM (COM) CONNECTION. (RE: MEP DWGS) ⚠

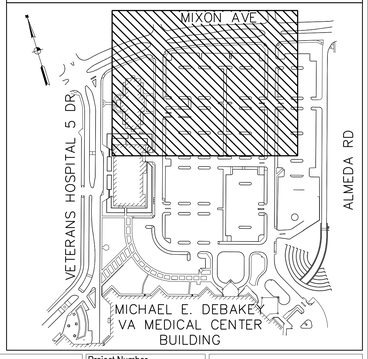
EXISTING FEATURES LEGEND

- EXISTING CONCRETE PAVEMENT
- EXISTING CURB LINE
- SD — EXISTING UNDERGROUND STORM SEWER
- SS — EXISTING UNDERGROUND SANITARY SEWER
- W — EXISTING UNDERGROUND WATER LINE
- P — EXISTING UNDERGROUND POWER LINE

PROPOSED FEATURES LEGEND

- PROPOSED CURB LINE
- SD — PROPOSED UNDERGROUND STORM SEWER
- SS — PROPOSED UNDERGROUND SANITARY SEWER
- W — PROPOSED UNDERGROUND WATER LINE
- P — PROPOSED UNDERGROUND POWER LINE
- PROPOSED GRASSY SWALE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED STORM SEWER INLET
- PROPOSED STORM SEWER JUNCTION BOX

KEY MAP



Revisions:	Date
01 ISSUE FOR BID	08/08/2011
02 ADDENDUM NO. 1 (ADD COMMUNICATION CABLE CONDUIT) ⚠	01/19/2012

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Drawing Title: UTILITY PLAN
Approved: Project Director: 2002 Holcombe Blvd. Houston, TX 77030

Project Title: 580-317 PARKING GARAGE A PHASE I -
Location: VAMC | HOUSTON, TEXAS
Date: AUGUST 8, 2011 | Checked: TJH | Drawn: KWB

Project Number: 580-317 (HOK Project No 10.10019.00)
Building Number: A
Drawing Number: CP601
Dwg. 6 of 12

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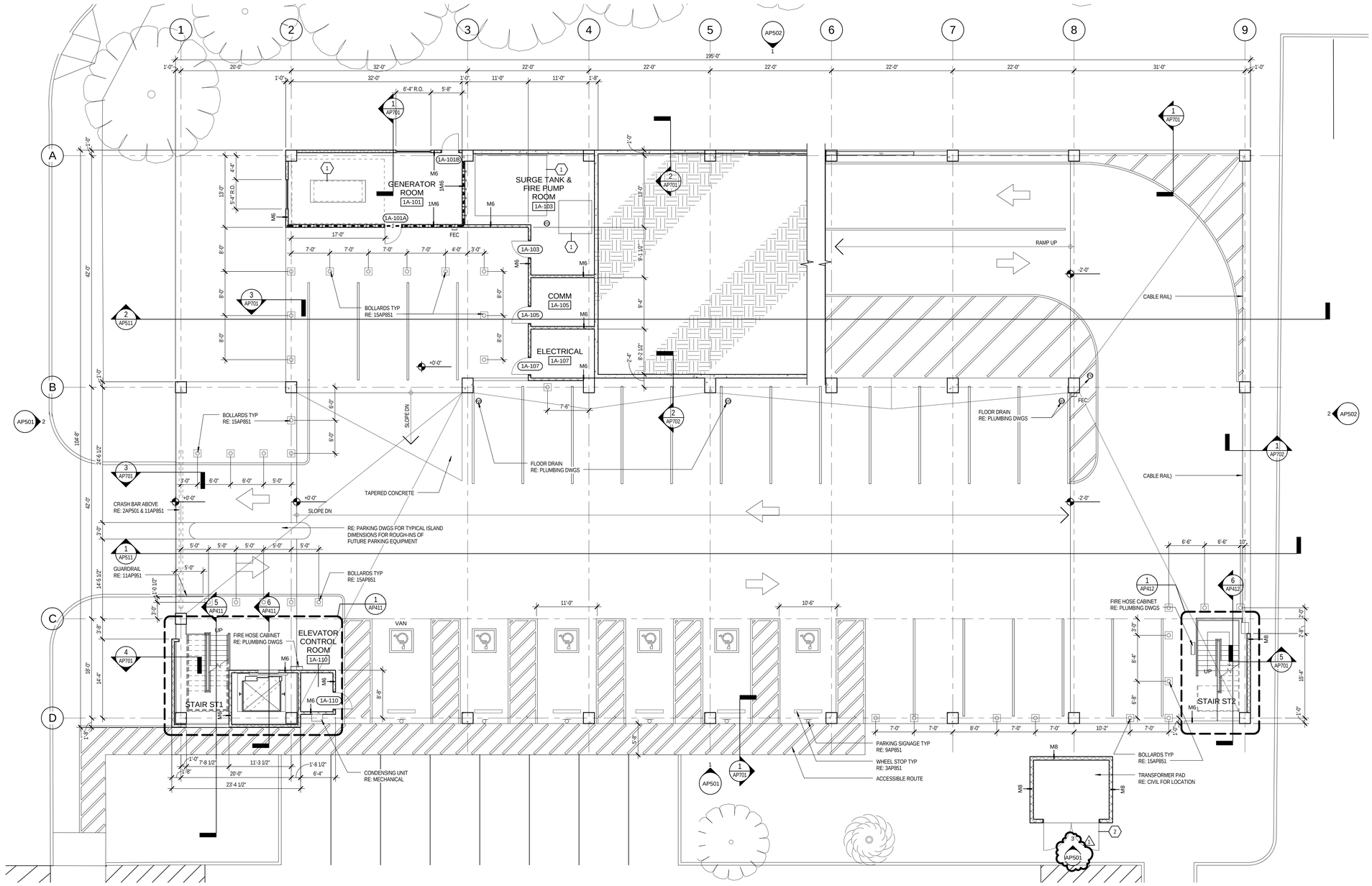
Department of Veterans Affairs

VA FORM 08-6231

FILE NAME: S:\Projects\HOK\MEDVAMC Garage Ph1\DGN\CP601-UTILITIES.dgn



1 FLOOR PLAN - LEVEL 1 - GARAGE
1/8" = 1'-0"

GENERAL NOTES:

A. FINISH FLOOR ELEVATION OF +0'-0" IN THIS SET OF DRAWINGS REFERS TO THE DATUM ELEVATION OF +47.50' (47'-6") IN THE CIVIL DRAWINGS.
B. PLAN DIMENSIONS ARE TO FINISHED FACE OF PARTITIONS AND GENERALLY ARE TIED TO A COLUMN CENTERLINE UNLESS SPECIFICALLY SHOWN CENTERED ON A PARTICULAR BUILDING ELEMENT I.E. A CHASE WALL, WINDOW MULLION, ETC.
C. PARTITION TYPES ARE SCHEDULED ON PLANS BY NUMBER. SEE THE "PARTITION TYPES AND GENERAL NOTES" AND "PARTITION TYPES", SHEETS AP901.
D. ALL PARTITIONS ARE TYPE "M6" U.N.O.
E. WALL AND PARTITION OPENINGS ARE SCHEDULED BY THE SPACE NUMBER THEY GIVE ACCESS TO. IN THE EVENT OF MORE THAN ONE OPENING IN A SINGLE SPACE A LETTER WILL BE NOTED ADJACENT TO EACH OPENING ON THE FLOOR PLANS. OPENINGS WILL BE SCHEDULED ACCORDINGLY IN CONJUNCTION WITH THE APPROPRIATE ROOM OR SPACE NO.
F. DETAILS MAY BE REFERENCED BY SYMBOL OR BY "NOTES TO SHEET" REFERENCES. KEYED OR NOTED DETAILS REPRESENT THE DESIRED CONFIGURATION AND FINISHES FOR ALL SIMILAR CONDITIONS.
G. FOR ROOM FINISHES, SEE FINISH PLANS. MINOR SPACES WILL BE FINISHED SIMILAR TO THE SCHEDULED ADJOINING SPACE, UNLESS SCHEDULED OTHERWISE.
H. FREESTANDING COLUMNS WILL RECEIVE THE SAME FINISHES AS THE NEAREST ADJACENT WALL UNLESS OTHERWISE NOTED OR DETAILED.
I. ENLARGED PLANS WILL GENERALLY CONTAIN THE DIMENSIONS, DETAIL REFERENCES, PARITION TYPES ETC., FOR THE DESCRIBED AREAS.
J. INFORMATION SHOWN OR REFERENCED ON ENLARGED AND/OR 1/4" SCALE DRAWINGS WILL GENERALLY NOT BE SHOWN ON THE SMALLER SCALE DRAWINGS.
K. INSTALL BACKING PLATES AT ALL WALL-MOUNTED RAILINGS, TV BRACKETS, AND TOILET AND SERVICE ACCESSORIES.
L. FIELD COORDINATE ALL FIELD ROUTED PIPE, CONDUIT RUNS, ETC., WITH LOCATIONS OF RECESSED ACCESSORIES AND EQUIPMENT. IN THE EVENT OF A CONFLICT, ACCESSORY LOCATIONS TAKE PRECEDENCE.
M. CLOSE ALL JOINTS BETWEEN PLUMBING FIXTURES/ACCESSORIES AND DISSIMILAR MATERIALS W/ SEALANT(I.E. BETWEEN SINKS AND COUNTERTOPS, TOILET...).
N. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT.
O. SEE STRUCTURAL DWGS FOR SPOT ELEVATIONS.
P. ALL NEW CONSTRUCTION PARTITIONS IN LINE WITH EXISTING PARTITIONS ARE TO BE ALIGNED WITH EXISTING PARTITIONS U.N.O.

FIRE TAPE LEGEND

■1■1■1■1■	1-HR FIRE RATED
■2■2■2■2■	2-HR FIRE RATED
■1S■1S■1S■1S■	1-HR FIRE/SMOKE RATED
■2S■2S■2S■2S■	2-HR FIRE/SMOKE RATED

LEVEL	PARKING SPACES
LEVEL 1	27
LEVEL 2	33
LEVEL 3	33
LEVEL 4	33
LEVEL 5	33
LEVEL 6	35
TOTAL	**194**

KEYNOTE SCHEDULE

1 PROVIDE HOUSEKEEPING PADS FOR GENERATOR, FIRE PUMP AND SURGE TANK. COORDINATE SIZE AND LOCATION PER FURNISHED EQUIPMENT AND IT'S REQUIREMENTS.
2 COORDINATE FINAL SIZE OF TRANSFORMER PAD AND SIZE & LOCATION OF GATE ONCE TRANSFORMER IS SELECTED.

FINISH LEGEND

PAINT		LOCATION
P 1	GENERAL PAINT COLOR MFR: TBD FINISH: TBD COLOR: TBD	CMU & CONCRETE WALLS
P 2	PAINT FOR STEEL MFR: TBD FINISH: TBD COLOR: TBD	METAL STAIRS, HANDRAILS, GUARDRAILS, ELEVATOR JAMBS, DOORS & DOOR FRAMES, GATES, AND MISC METALS
P 3	PAINT FOR ALUMINUM MFR: TBD FINISH: TBD COLOR: TBD	ALUMINUM METAL PANELS & LOUVERS
P 4	ACCENT PAINT MFR: FINISH: SEMI GLOSS COLOR: YELLOW B8	BOLLARDS AND CRASH BAR

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Revisions:		Date:

CONSULTANTS:

01-19-2012

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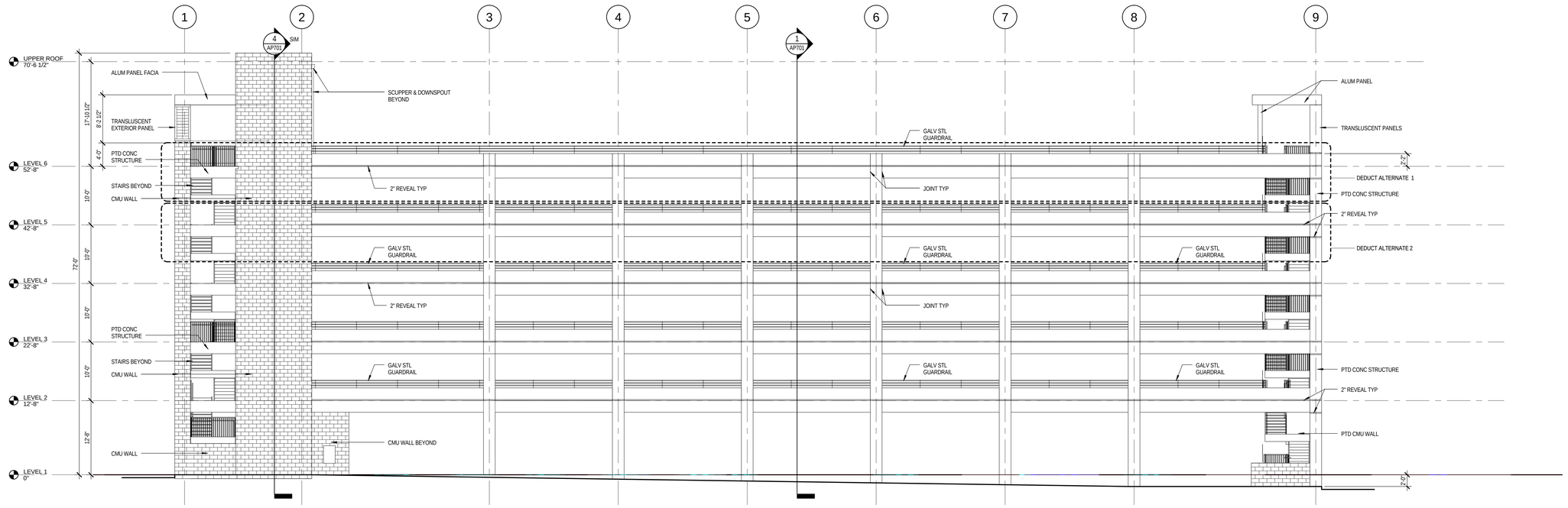
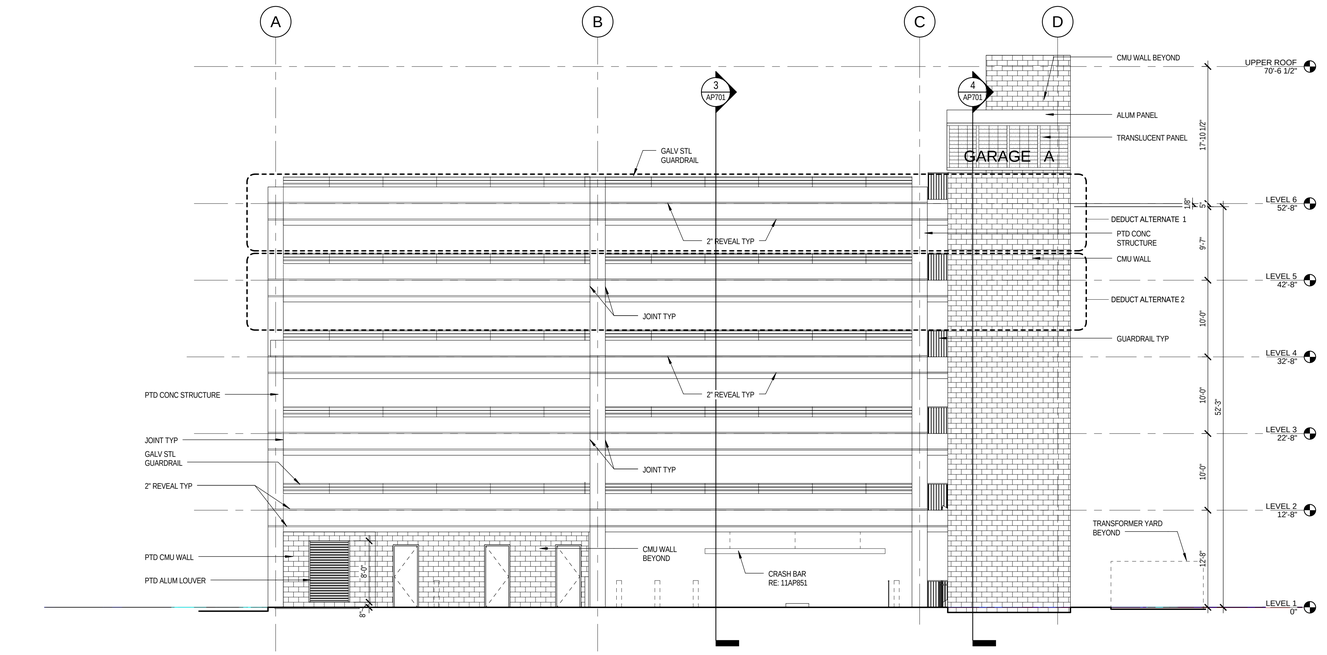
Drawing Title: FLOOR PLAN - LEVEL 1 - GARAGE
Approved: Project Director: 2002 Holcombe Blvd. Houston, TX. 77030
Project Title: 580-317 PARKING GARAGE A PHASE I
Location: VAMC | HOUSTON, TX.
Date: 01/19/2012
Checked: Checker
Drawn: R.GEORGE
Project Number: 580-317 HOK Project No 10.10019.00
Building Number: A
Drawing Number: AP211 Dwg ___ of 41

Office of Construction and Facilities Management
Department of Veterans Affairs

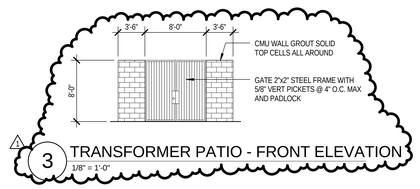
VA FORM 08-6231



1 SOUTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



3 TRANSFORMER PATIO - FRONT ELEVATION
1/8" = 1'-0"

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Drawing Title: GARAGE ELEVATIONS

Project Title: 580-317 PARKING GARAGE A PHASE I

Project Number: 580-317
HOK Project No. 10.10019.00

Building Number: A

Approved: Project Director
2002 Holcombe Blvd.
Houston, TX. 77030

Location: VAMC | HOUSTON, TX.

Date: 01/19/2012

Checked: R.GEORGE

Drawn: R.GEORGE

Drawing Number: AP501

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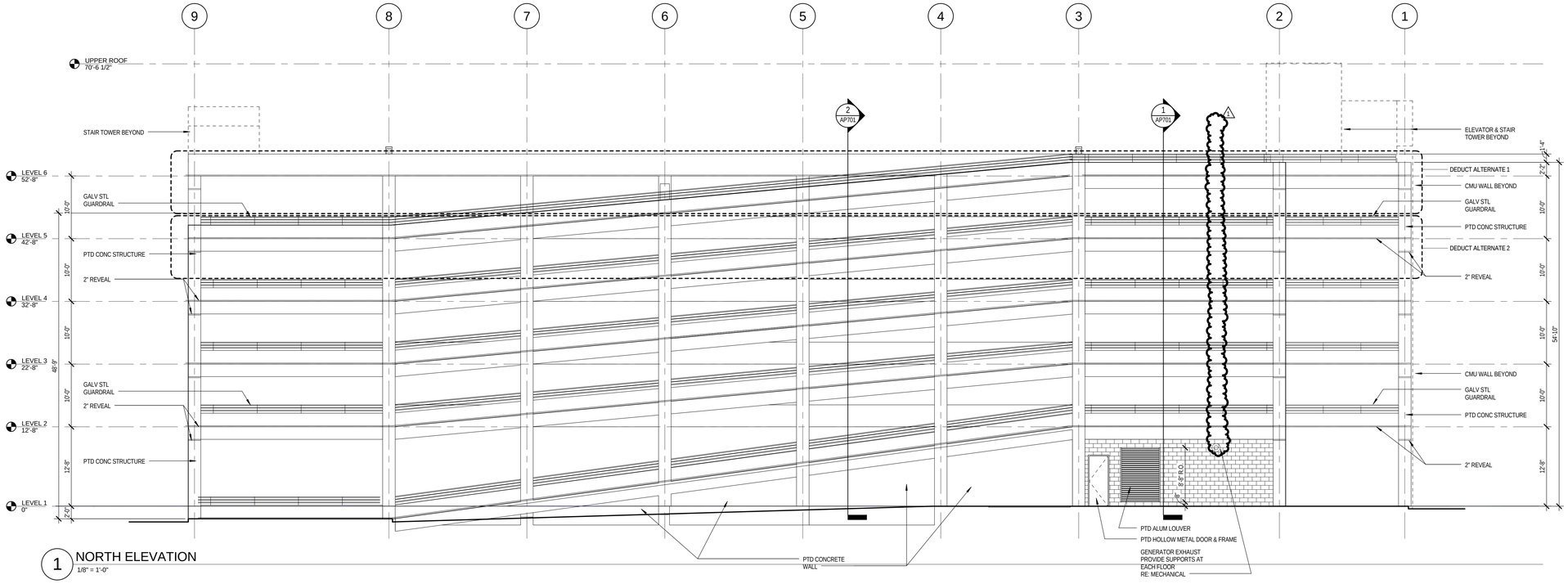
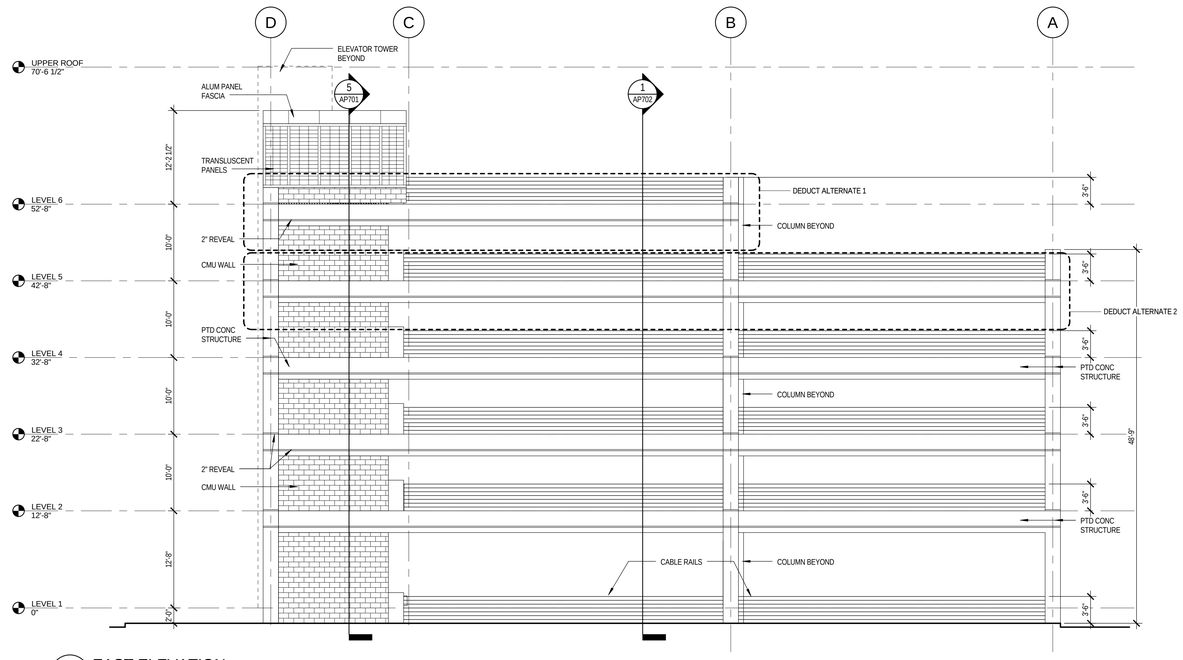
Office of Construction and Facilities Management

Department of Veterans Affairs

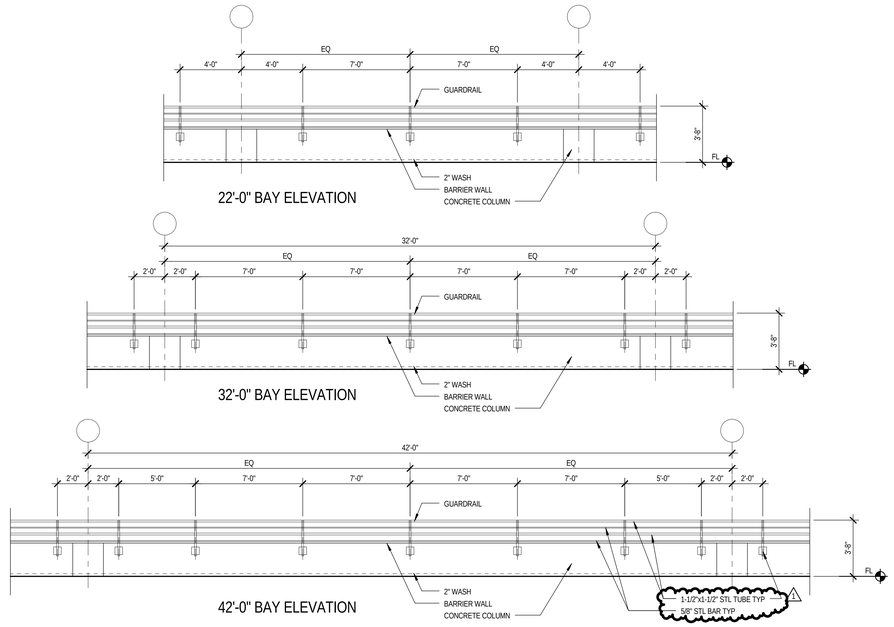
VA FORM 08-6231



1 NORTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



3 GUARDRAIL ELEVATION
1/4" = 1'-0"

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01-19-2012

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Drawing Title: GARAGE ELEVATIONS

Approved: Project Director
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Houston, TX. 77030

Project Title: 580-317 PARKING GARAGE A PHASE I

Location: VAMC | HOUSTON, TX.

Date: 01/19/2012 | Checked: R.GEORGE | Drawn: R.GEORGE

Project Number: 580-317
HOK Project No 10.10019.00

Building Number: A

Drawing Number: AP502

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Office of Construction and Facilities Management

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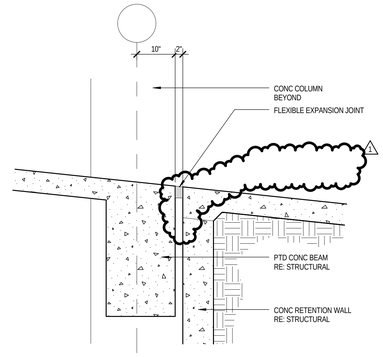
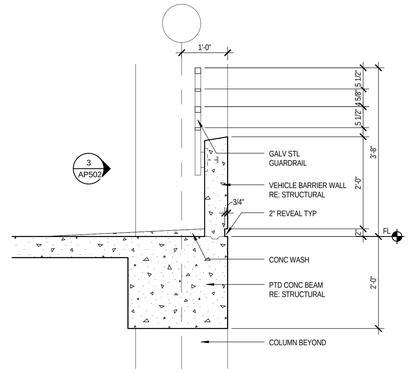
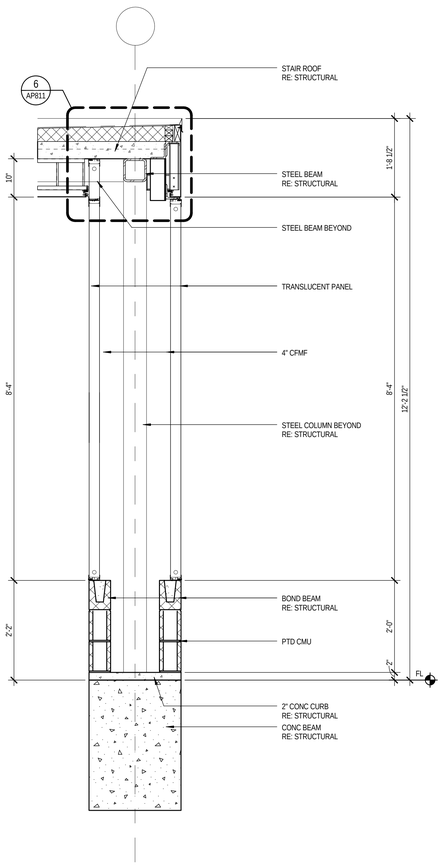
VA FORM 08-6231



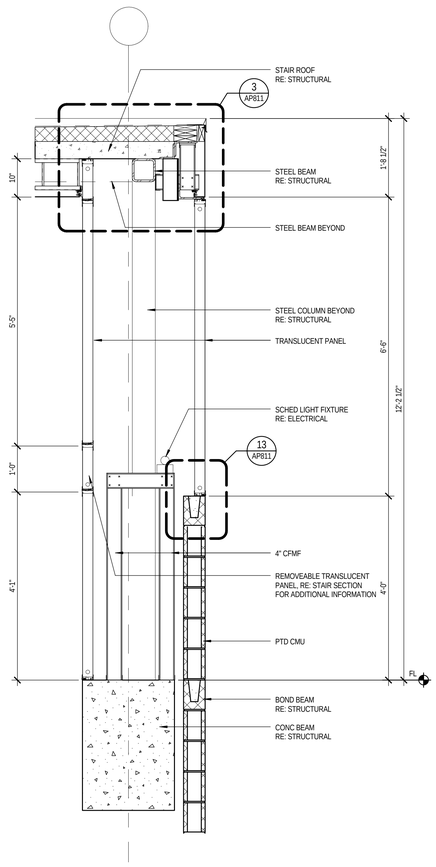
3 SECTION DETAIL - EXP JOINT AT RAMP
3/4" = 1'-0"



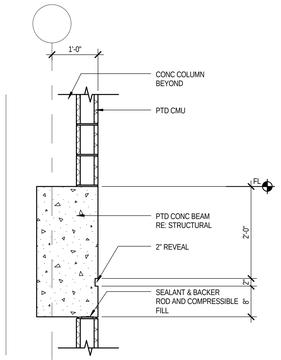
5 SECTION DETAIL TYPICAL EDGE OF SLAB
3/4" = 1'-0"



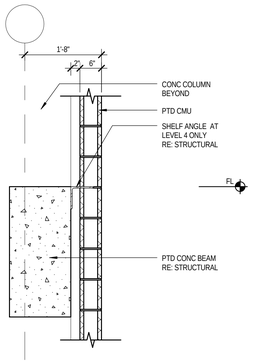
11 SECTION DETAIL AT TRANSLUSCENT PANEL ST2
3/4" = 1'-0"



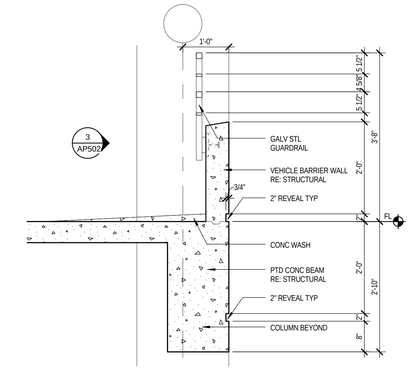
12 SECTION DETAIL AT TRANSLUCENT PANELS
3/4" = 1'-0"



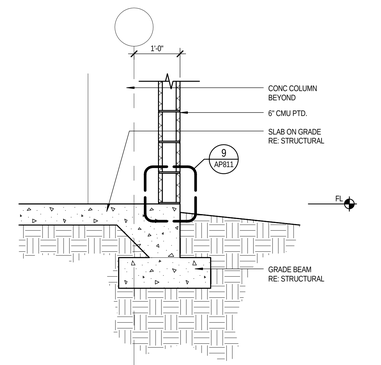
8 SECTION DETAIL CMU WALL ON SLAB
3/4" = 1'-0"



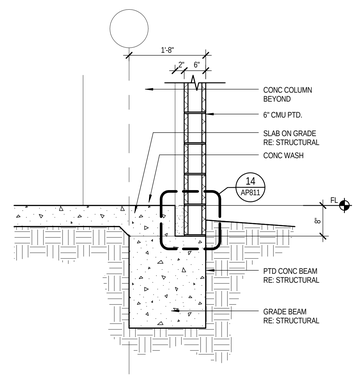
9 SECTION DETAIL CMU WALL BEYOND SLAB
3/4" = 1'-0"



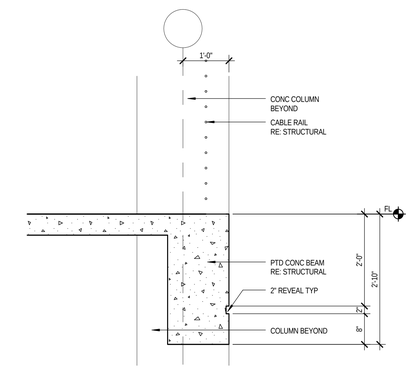
10 SECTION DETAIL TYP EDGE OF SLAB 34" BEAM
3/4" = 1'-0"



13 SECTION DTL - CMU WALL AT GROUND FLOOR
3/4" = 1'-0"



14 SECTION DETAIL AT LEDGE
3/4" = 1'-0"



15 SECTION DETAIL EDGE OF SLAB AT CABLES
3/4" = 1'-0"

01	ISSUE FOR BID	08/08/2011
1	ADDENDUM No. 001	01/19/2012
Revisions:		Date:

CONSULTANTS:

01-19-2012

ARCHITECT/ENGINEERS:

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Drawing Title: PLAN & SECTION DETAILS - GARAGE

Project Title: 580-317 PARKING GARAGE A PHASE I

Project Number: 580-317
HOK Project No 10.10019.00

Building Number: A

Approved: Project Director
2002 Holcombe Blvd.
Houston, TX. 77030

Location: VAMC | HOUSTON, TX.

Date: 01/19/2012

Checked: R.GEORGE

Drawn: R.GEORGE

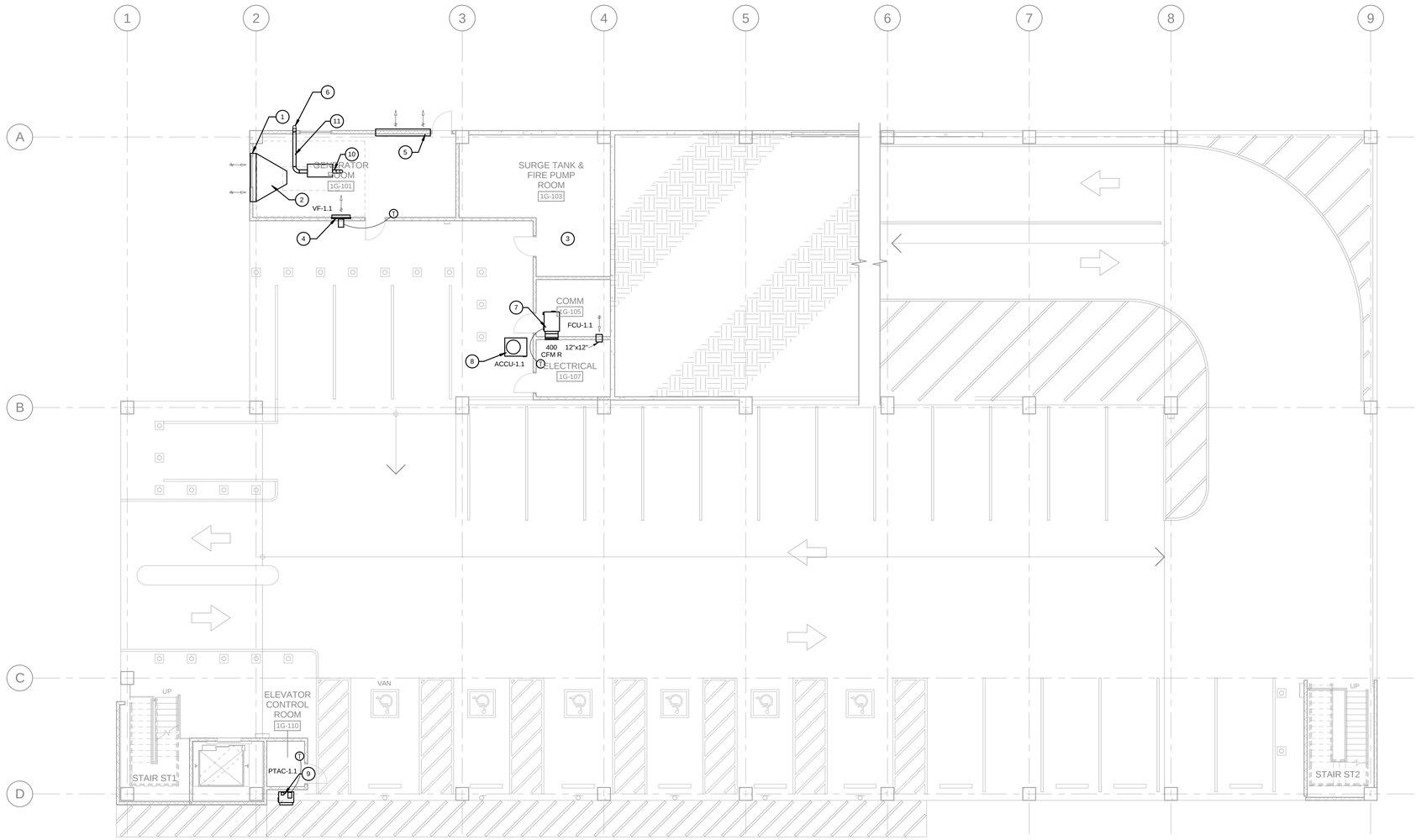
Drawing Number: AP801

Dwg ___ of 41

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 Level 1 - Garage Mechanical Plan
1/8" = 1'-0"

Keynote Legend

1	PROVIDE INTAKE LOUVER EQUAL TO RUSKIN MODEL L375D. LOUVER SHALL HAVE A MINIMUM FREE AREA OF 17.6 SQUARE FEET.
2	CONNECT SHEETMETAL SHROUD TO OUTSIDE AIR LOUVER AND TRANSITION TO RADIATOR INTAKE SIZE. CONNECT TO RADIATOR. PROVIDE ACCESS PANEL IN SHROUD.
3	PROVIDE HEAT TRACE FOR ALL PIPING SERVING SURGE TANK IN THIS ROOM.
4	PROVIDE SIDEWALL VENTILATION FAN. FAN SHALL ONLY OPERATE WHEN GENERATOR IS IN OPERATION. RE: MECHANICAL SCHEDULES.
5	PROVIDE EXHAUST LOUVER EQUAL TO RUSKIN MODEL L375D. LOUVER SHALL HAVE A MINIMUM FREE AREA OF 15.2 SQUARE FEET.
6	REFER TO DETAILS ON M4.10.
7	FAN COIL UNIT SHALL BE SUSPENDED FROM STRUCTURE. COORDINATE FINAL LOCATION SUCH THAT UNIT IS NOT LOCATED DIRECTLY ABOVE ANY ELECTRICAL EQUIPMENT. ROUTE CONDENSATE TO NEAREST FLOOR OR ROOF DRAIN.
8	AIR COOLED CONDENSING UNIT TO BE SUSPENDED ON UNI-STRUT RACK FROM STRUCTURE ABOVE. MOUNT RACK AT 96" A.F.F. COORDINATE FINAL LOCATION WITH OWNER AND ARCHITECT. FIELD COORDINATE ROUTING OF REFRIGERANT PIPING TO ASSOCIATED FAN COIL UNIT. SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9	PROVIDE PACKAGED WALL MOUNTED FAN COIL UNIT EQUAL TO BARD. RE: SCHEDULES.
10	GENERATOR EXHAUST SYSTEM WILL BE INSULATED WITH CALCIUM SILICATE, PER SPECS.
11	GENERATOR EXHAUST PIPE WILL BE WELDED 304L SS, SIZED PER GENERATOR MANUFACTURER'S GUIDELINES.

GARAGE GENERAL NOTES

A. ALL DUCTWORK SYSTEMS ARE TO BE CONSTRUCTED FOR +/- 2.0" S.P.

B. PROVIDE DUCT LINER IN SUPPLY AIR AND RETURN AIR DUCTWORK AT FCU.

C. RE: M4.10 FOR ALL APPLICABLE DETAILS.

01	ISSUE FOR BID	08/08/2011
1	ADDENDUM NO. 001	01/19/2012
Revisions:		Date:

CONSULTANTS:

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KURT G. ROBERTS
91845
1/19/2012

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Drawing Title: Level 1 - Garage Mechanical Plan

Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I

Location: VAMC | HOUSTON, TX.

Date: 08/08/2011 | Checked: KGR | Drawn: EAM

Project Number: 1054007.0 (HOK Project No)

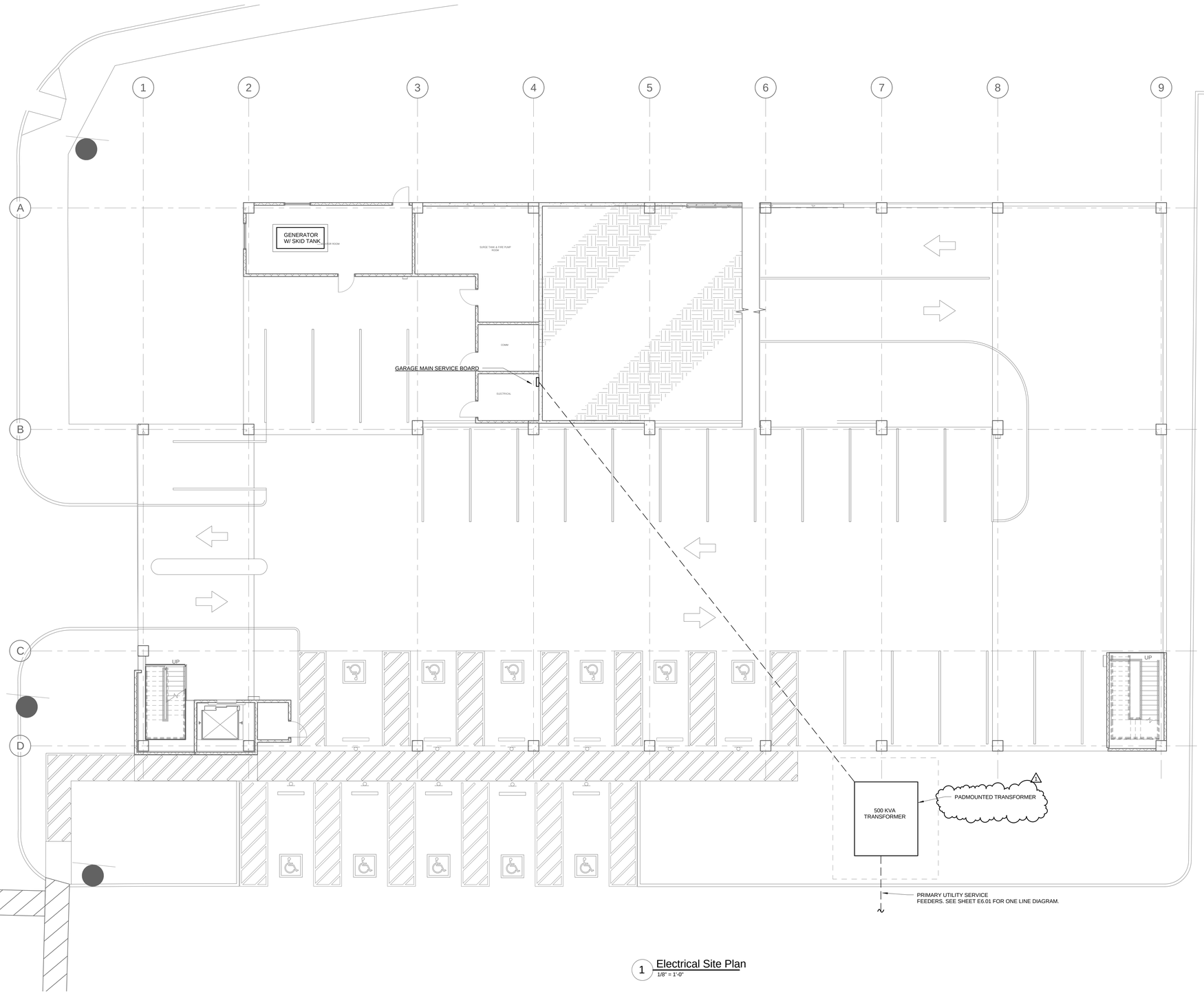
Building Number: A

Drawing Number: M2.10

Dwg ___ of 300

Office of Construction and Facilities Management

VA FORM 08-6231



1 Electrical Site Plan
1/8" = 1'-0"

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

01 ISSUE FOR BID	08/08/2011
1 ADDENDUM NO. 001	01/19/2012
Revisions:	Date:

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PROFESSIONAL ENGINEER
19 JAN 2012

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Drawing Title: Electrical Site Plan

Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I

Location: VAMC | HOUSTON, TX.

Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0
HOK Project No 10.10019.00

Building Number: 100

Drawing Number: EP1.01

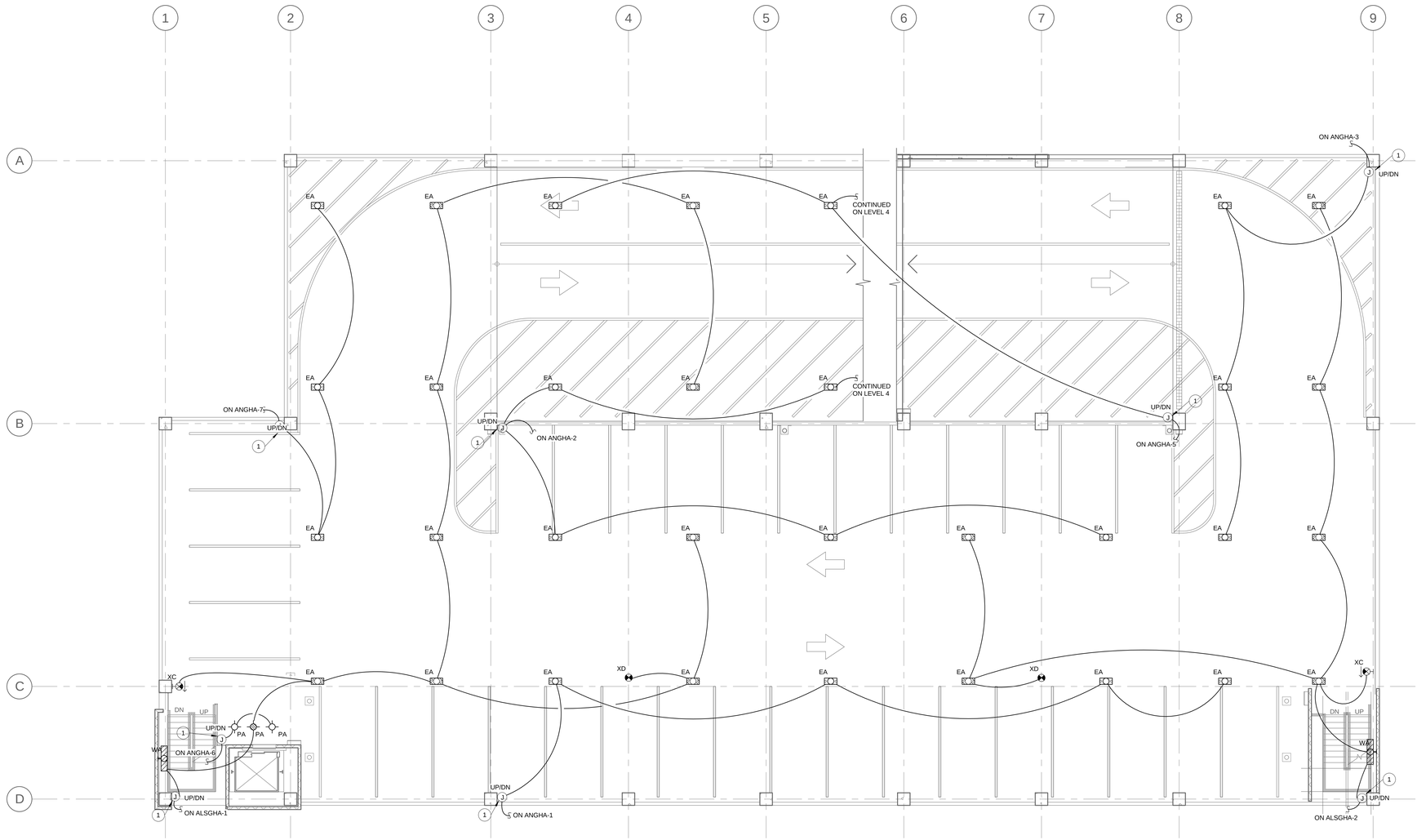
Office of Construction and Facilities Management

VA FORM 08-6231

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

KEYED NOTES

1. CONDUIT TO UPPER LEVELS.
2. NOT USED.



1 Level 5 - Garage Lighting Plan
1/8" = 1'-0"

01 ISSUE FOR BID	08/08/2011
1 ADDENDUM NO. 001	01/19/2012
Revisions:	Date:

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Drawing Title: Level 5 - Garage Lighting Plan

Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I

Location: VAMC | HOUSTON, TX.

Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0 (HOK Project No. 10.10019.00)

Building Number: 100

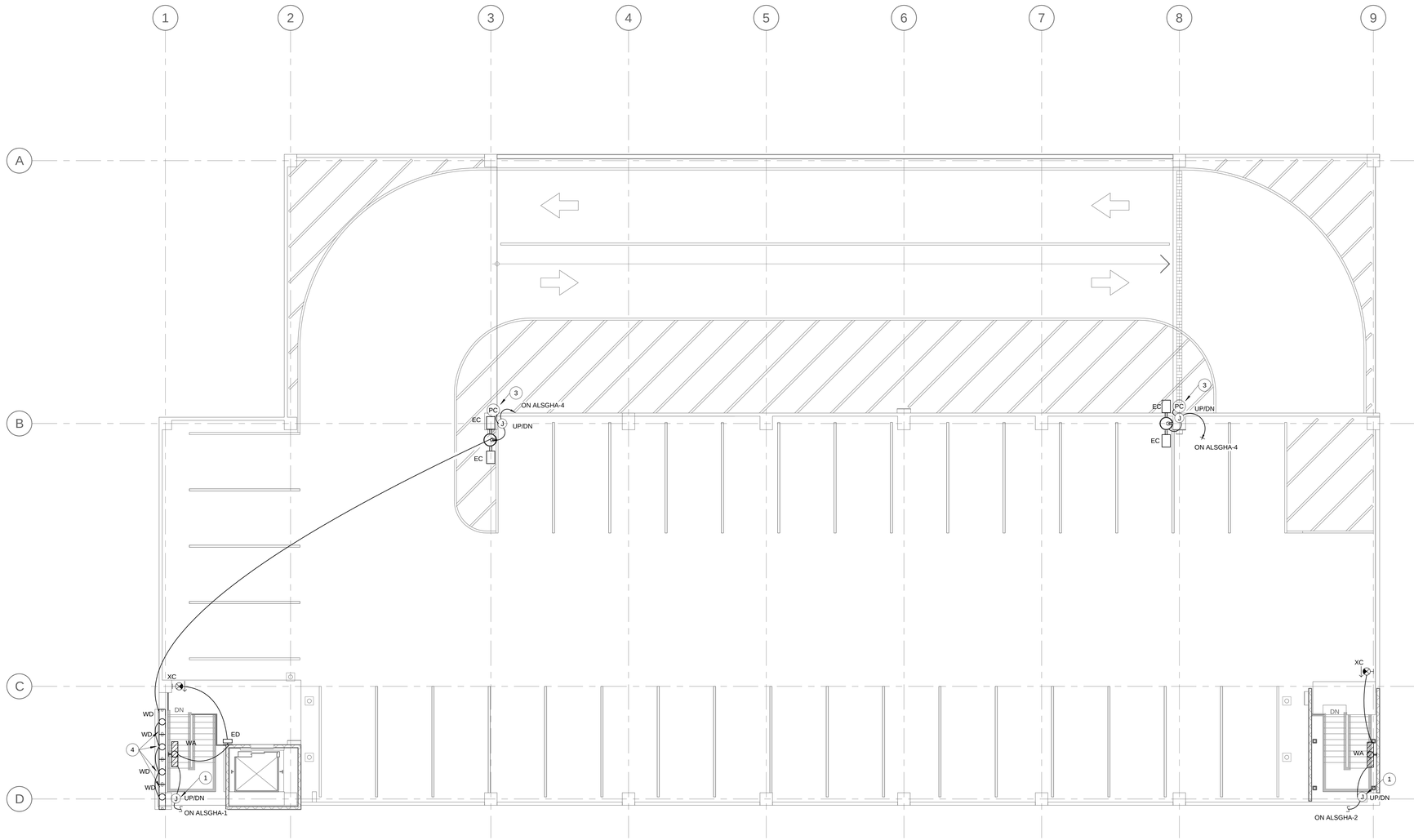
Drawing Number: EP2.14

Office of Construction and Facilities Management

VA FORM 08-6231

KEYED NOTES

1. CONDUIT TO LOWER LEVELS.
2. NOT USED.
3. CONTROLLED VIA PHOTOCELL.
4. 4' 2 LAMP STRIP MOUNTED AT BOTTOM OF TRANSLUCENT PANEL DIRECTED UPWARD. COORDINATE INSTALLATION WITH TRANSLUCENT PANEL MANUFACTURER.



1 Roof Level - Garage Lighting Plan
1/8" = 1'-0"

01 ISSUE FOR BID	08/08/2011
ADDENDUM NO. 001	01/19/2012
Revisions:	Date:

CONSULTANTS:

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19 JAN 2012

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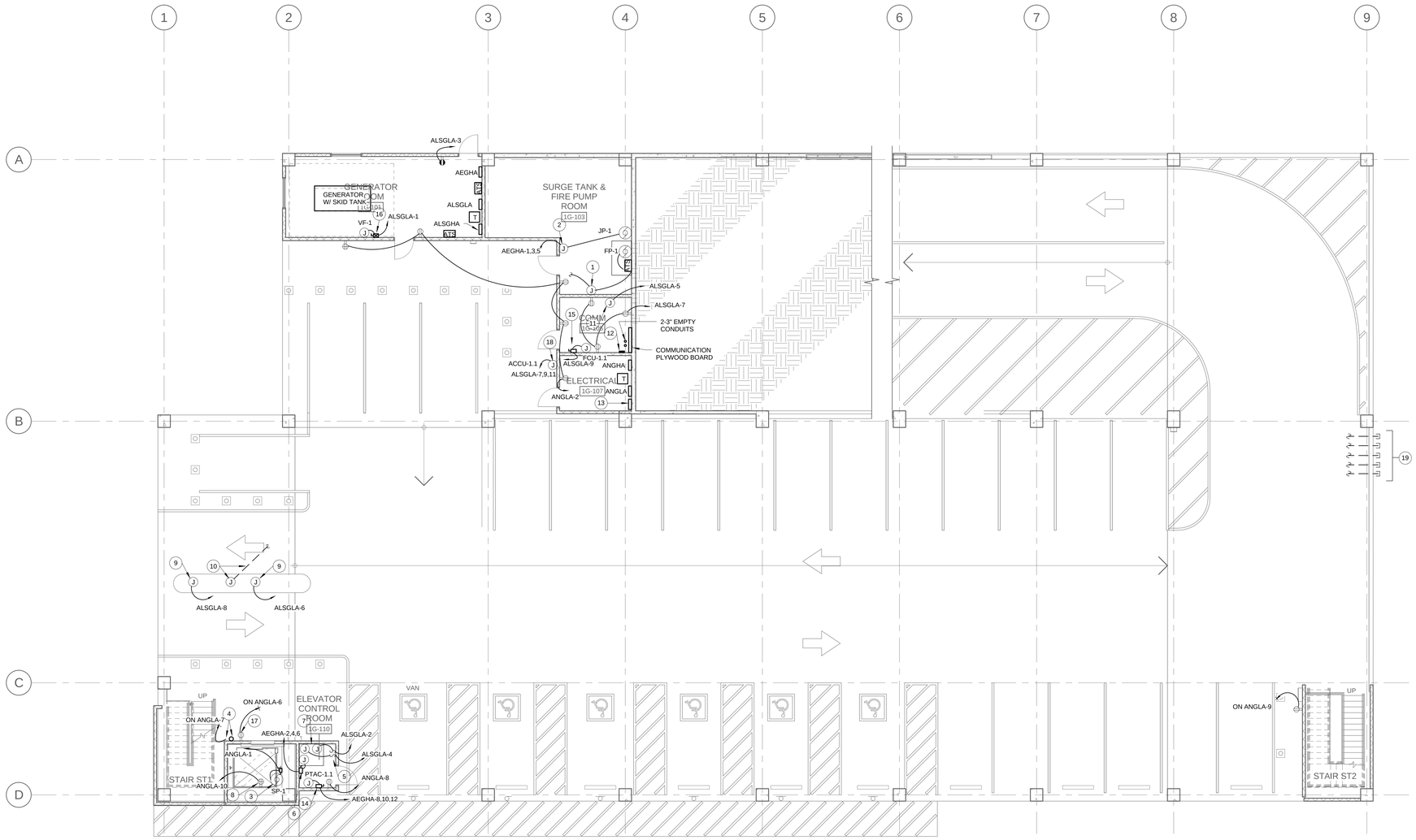
Drawing Title: Roof Level - Garage Lighting Plan
Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I
Location: VAMC | HOUSTON, TX.
Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0 (HOK Project No 10.10019.00)
Building Number: 100
Drawing Number: EP2.15

Office of Construction and Facilities Management

VA FORM 08-6231



KEYED NOTES

1. POWER FOR FIRE PUMP CONTROLLER. PROVIDE 3# 4/0, 1#3G, 2"C.
2. POWER FOR JOCKEY PUMP CONTROLLER. PROVIDE 3#12, 1#12G, 3/4"C.
3. POWER FOR SUMP PUMP. PROVIDE 30A/120V/1P/NF/NEMA 3R DISCONNECT.
4. POWER FOR EMERGENCY PHONE.PROVIDE (1) 3/4" CONDUITS FOR POWER, (1) 1" CONDUIT FOR DATA. TYPICAL ALL FLOORS.
5. PROVIDE FUSED LOCKABLE SWITCHES FOR CAB LIGHTS.
6. 100 AMP/480V/3P/70A FUSED/NEMA 1 DISCONNECT FOR ELEVATOR.
7. ELEVATOR CONTROL PANEL.
8. ELEVATOR PIT GFCI RECEPTACLE.
9. POWER FOR AUTOMATIC GATES.
10. PROVIDE (2) 2" CONDUITS FOR GATE CONTROLS. ROUTE TO COMMUNICATION ROOM.
11. J-BOX FOR TEL/COM EQUIPMENT.
12. PROVIDE TEL/COM GROUND BUS BAR.
13. PROVIDE ASTROMICAL TIME CLOCK WITH CONTACTORS.
14. POWER FOR PTAC-1.1. PROVIDE 30A/480V/15AF/3P NEMA 1 DISCONNECT.
15. POWER FOR FCU-1.1. PROVIDE 30A/120V/15AF/1P NEMA 1 DISCONNECT.
16. POWER FOR VF-1. PROVIDE 30A/120V/1P COMBINATION STARTER DISCONNECT. STARTER SIZE ZERO.
17. RECEPTACLE FOR LEVELS 1-6.
18. CONDENSING UNIT POWER.
19. PROVIDE CONDUITS FOR FUTURE GARAGE. REF. SHEET EP6.01.

1 Level 1 - Garage Power Plan
1/8" = 1'-0"

01 ISSUE FOR BID	08/08/2011
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Revisions:	Date:

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THOMAS N. DIVINE III 66402 LICENSED ARCHITECT
19 JAN 2012

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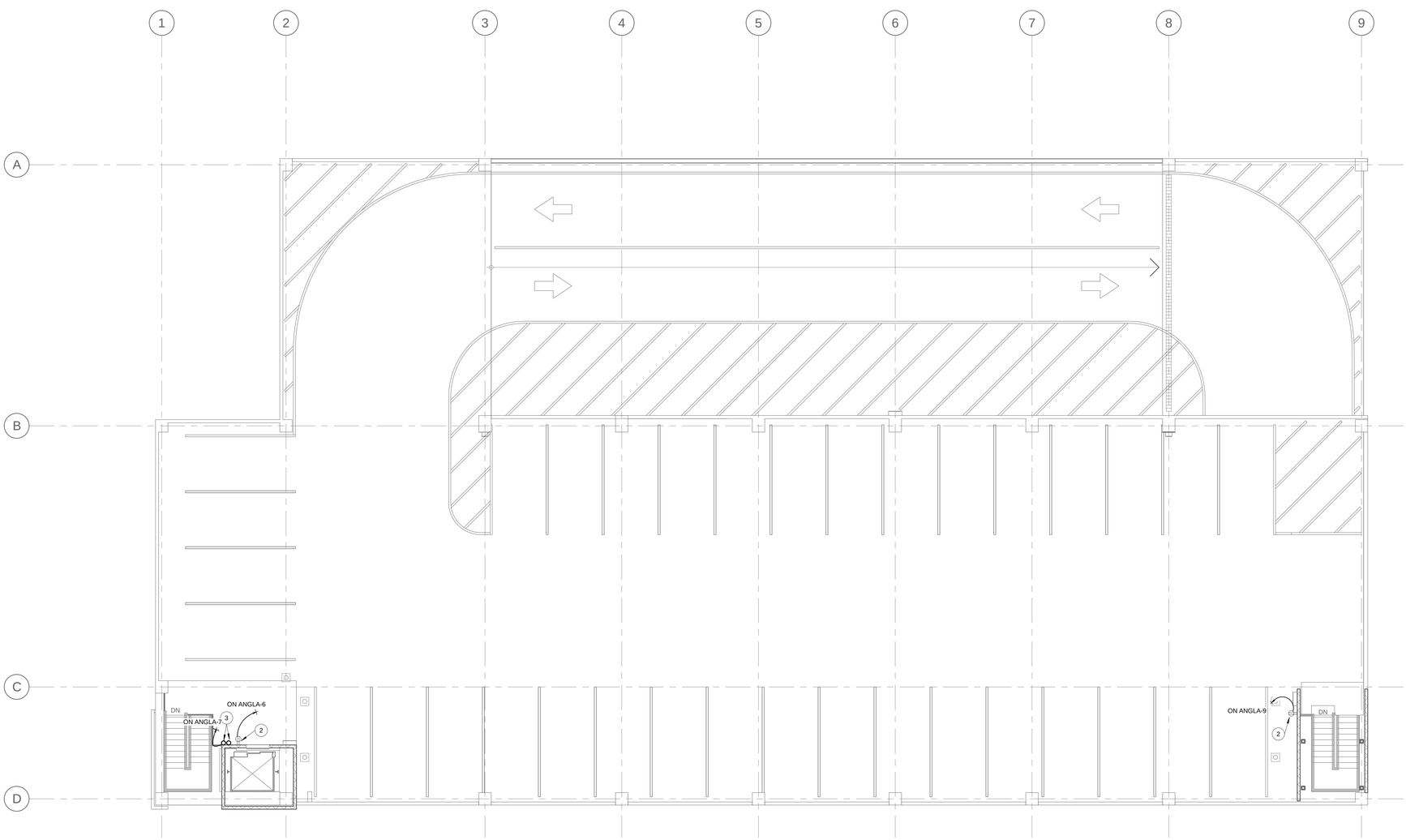
Drawing Title: Level 1 - Garage Power Plan
Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I
Location: VAMC | HOUSTON, TX.
Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0 (HOK Project No 10.10019.00)
Building Number: 100
Drawing Number: EP3.10

Office of Construction and Facilities Management

VA FORM 08-6231



KEYED NOTES

1. NOT USED.
2. RECEPTACLE FOR LEVELS 1-6. PROVIDE WEATHER PROOF GFCI RECEPTACLE.
3. POWER FOR EMERGENCY PHONE.PROVIDE (1) 3/4" CONDUITS FOR POWER, (1) 1" CONDUIT FOR DATA. TYPICAL ALL FLOORS.

1 Roof Level - Garage Power Plan
1/8" = 1'-0"

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

01 ISSUE FOR BID	08/08/2011
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STATE OF TEXAS
THOMAS M. DIVINE, III
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PROFESSIONAL ENGINEER
19 JAN 2012

ARCHITECT/ENGINEERS:

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Drawing Title: Roof Level - Garage Power Plan
Approved: Project Director

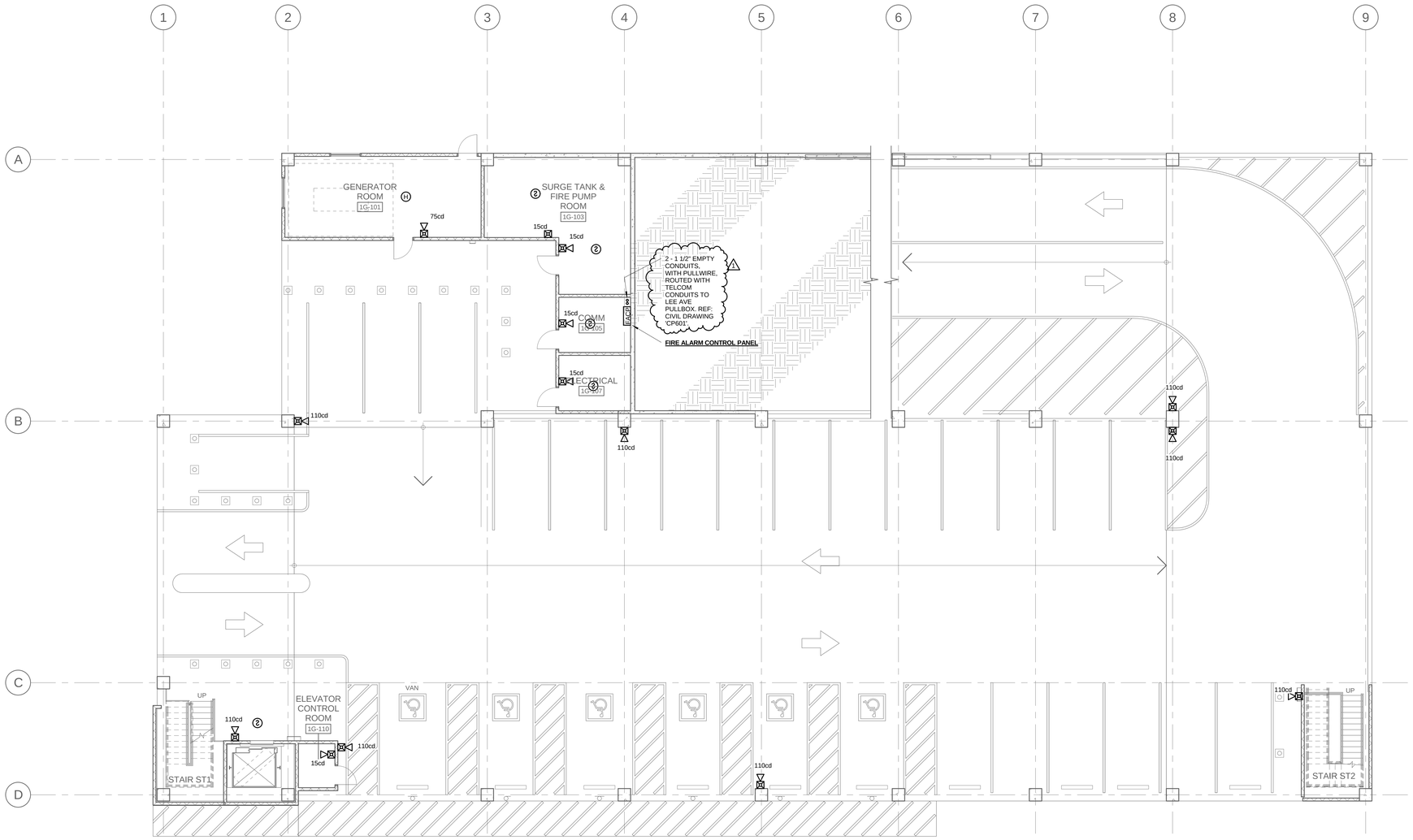
Project Title: 580-317 PARKING GARAGE A PHASE I
Location: VAMC | HOUSTON, TX.
Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0
HOK Project No 10.10019.00
Building Number: 100
Drawing Number: EP3.15

Office of Construction and Facilities Management

N

VA FORM 08-6231



1 Level 1 - Garage Fire Alarm Plan
1/8" = 1'-0"

01 ISSUE FOR BID	08/08/2011
1 ADDENDUM NO. 001	01/19/2012
Revisions:	Date:

CONSULTANTS:

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THOMAS W. DIVINE, III
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19 JAN 2012

ARCHITECT/ENGINEERS:

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Drawing Title: Level 1 - Garage Fire Alarm Plan

Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I

Location: VAMC | HOUSTON, TX.

Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0 (HOK Project No 10.10019.00)

Building Number: 100

Drawing Number: EP4.10

Office of Construction and Facilities Management

VA FORM 08-6231

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

TRANSFORMER SCHEDULE

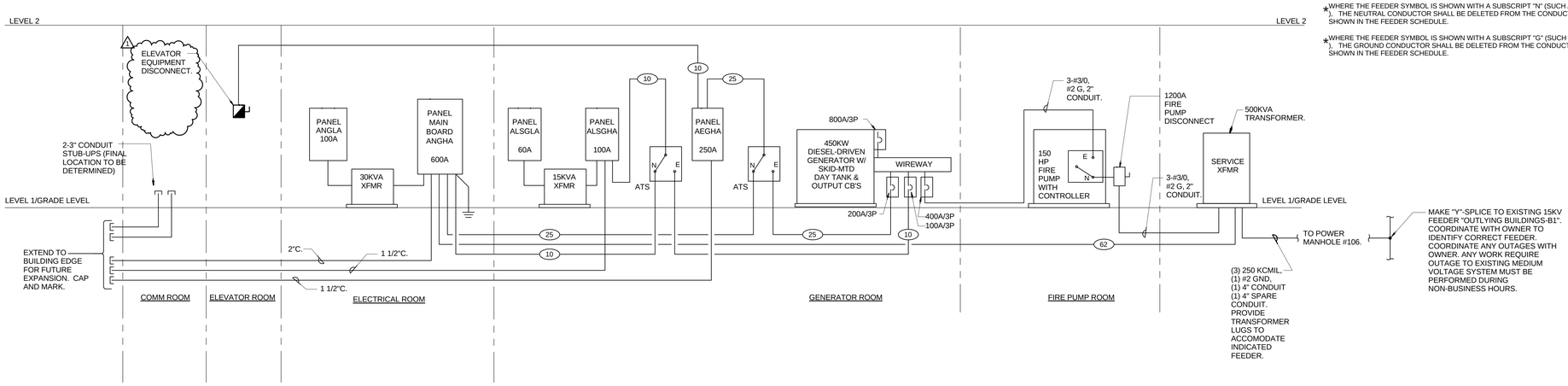
PRIMARY VOLTAGE - 480V DELTA				XFMR KVA	SECONDARY VOLTAGE - 120/208V WYE				GROUNDING ELECTRODE CONDUCTOR
FEEDER BREAKER	WIRE SIZE	CONDUIT SIZE	FLA		FLA	CONDUIT SIZE	WIRE SIZE	TERMINAL BREAKER	
30A/3P	3 #10, #10 G.	3/4 "	18	15	42	1"	4 #6, #8 G.	60A/3P	#8
50A/3P	3 #8, #10 G.	1"	36	30	83	1 1/4 "	4 #3, #8 G.	100A/3P	#8

FEEDER SCHEDULE

NUMBER	CONDUCTORS (THHN) - COPPER	CONDUIT	CONDUIT W/O NEUTRAL
02	4 #12, 1 #12G.	3/4 "	3/4 "
03	4 #10,1 #10G.	3/4 "	3/4 "
04	4 #8, 1 #10G.	1"	3/4 "
05	4 #6, 1 #8G.	1 1/4 "	1"
07	4 #4, 1 #8G.	1 1/4 "	1 1/4 "
10	4 #3, 1 #8G.	1 1/4 "	1 1/4 "
11	4 #2, 1 #6G.	1 1/2 "	1 1/4 "
13	4 #1, 1 #6G.	2"	1 1/2 "
15	4 #1/0, 1 #6G.	2"	1 1/2 "
17	4 #2/0, 1 #6G.	2"	2"
20	4 #3/0, 1 #6G.	2 1/2 "	2"
23	4 #4/0, 1 #4G.	2 1/2 "	2"
25	4 #250 Kcmil, 1 #4G.	3"	2 1/2 "
28	4 #300 Kcmil, 1 #4G.	3"	2 1/2 "
31	4 #350 Kcmil, 1 #3G.	3"	3"
33	4 #400 Kcmil, 1 #3G.	3"	3"
38	4 #500 Kcmil, 1 #3G.	3 1/2 "	3"
42	4 #600 Kcmil, 1 #2G.	4"	3 1/2 "
46	(2 SETS) 4 #4/0, 1 #2G.	2 1/2 "	2"
51	(2 SETS) 4 #250 Kcmil, 1 #2G.	3"	2 1/2 "
62	(2 SETS) 4 #350 Kcmil, 1 #1G.	3"	3"
75	(2 SETS) 4 #500 Kcmil, 1 #1/0G.	3 1/2 "	3 1/2 "
85	(3 SETS) 4 #300 Kcmil, 1 #1/0G.	3 1/2 "	3"
93	(3 SETS) 4 #350 Kcmil, 1 #2/0G.	3"	3"
100	(3 SETS) 4 #400 Kcmil, 1 #2/0G.	3 1/2 "	3"
126	(3 SETS) 4 #600 Kcmil, 1 #3/0G.	4"	3 1/2 "
142	(3 SETS) 4 #700 Kcmil, 1 #3/0G.	5"	4"
168	(4 SETS) 4 #600 Kcmil, 1 #4/0G.	4"	3 1/2 "
210	(5 SETS)4#600Kcmil, 1#250Kcmil G.	4"	3 1/2 "

*WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCRIPT "N" (SUCH AS (02)N), THE NEUTRAL CONDUCTOR SHALL BE DELETED FROM THE CONDUCTORS SHOWN IN THE FEEDER SCHEDULE.

*WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCRIPT "G" (SUCH AS (02)G), THE GROUND CONDUCTOR SHALL BE DELETED FROM THE CONDUCTORS SHOWN IN THE FEEDER SCHEDULE.



N

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CONSULTANTS:

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19 JAN 2012

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Drawing Title: Electrical Risers / 1 Line Diagrams

Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I

Location: VAMC | HOUSTON, TX.

Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0 (HOK Project No 10.10019.00)

Building Number: 100

Drawing Number: EP6.01

Office of Construction and Facilities Management

VA FORM 08-6231

PANEL: ALSGHA | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): 100 A MCB | CONTINUOUS(A): 10000
LOCATION: 1A-222A 1ST FLR ELEC | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 100
FED FROM: BUS-'ATS LS' | VOLTAGE: 480/277 | FAULT CURRENT(A): 10082

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	DC AMPS P	PHASE	DC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	LTS- WEST	#10	LIGHTING	3604	20 1	A	20 1	2285	LIGHTING	#10	LTS- EAST	2
3	LTS- EQUIPMENT ROOMS	#10	LIGHTING	640	20 1	B	20 1	1000	LIGHTING	#10	LTS- ROOF POLE	4
5	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	6
7	ACCU-1.1 CONDS UNIT	#12	MOTOR LOAD	10055	20 3	A	20 1	0	SPARE		SPARE	8
9	"			-	"	B	20 1	0	SPARE		SPARE	10
11	"			-	"	C	20 1	0	SPARE		SPARE	12
13	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	14
15	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	16
17	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	18
19	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	20
21	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	22
23	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	24
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35	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	36
37	SPACE		SPACE	0	0 1	A	0 3	6277	NONE		'XFMR ALSGLA'	38
39	SPACE		SPACE	0	0 1	B	"	-			"	40
41	SPACE		SPACE	0	0 1	C	"	-			"	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	21.09	35.6	* A-N	9876.0	35.6	CONNECTED	21.09	DATE: Jan 19, 2012
TOTAL DEMAND	22.68	40.6	* B-N	6383.9	23.0	DEMAND	22.68	TIME: 08:09:02
TOTAL DESIGN	22.68	40.6	* C-N	5338.2	19.3	DESIGN	22.68	

PANEL: ANGHA | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): 600 MCB | CONTINUOUS(A): 600
LOCATION: ELEC RM 2A-472 | DEVICE FAMILY: Plug In | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 22000
FED FROM: BUS-SERV XFMR SECONDARY | VOLTAGE: 480/277 | FAULT CURRENT(A): 11702

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	DC AMPS P	PHASE	DC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	LTS- CENTRAL	#10	LIGHTING	1300	20 1	A	20 1	1690	LIGHTING	#10	LTS- CORE TC	2
3	LTS-EAST	#10	LIGHTING	1040	20 1	B	20 1	256	LIGHTING	#12	LTS-EQUIPMENT ROOMS	4
5	LTS-RAMPS	#10	LIGHTING	1365	20 1	C	20 1	320	LIGHTING	#10	LTS- ELEV LOBBY TC	6
7	LTS-WEST	#10	LIGHTING	390	20 1	A	20 1	0	SPARE		SPARE	8
9	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	10
11	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	12
13	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	14
15	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	16
17	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	18
19	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	20
21	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	22
23	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	24
25	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	26
27	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	28
29	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	30
31	'BUS-EGHA'	SEE RISER	NONE	70354	250 3	A	0 1	0	SPACE		SPACE	32
33	"			-	"	B	0 1	0	SPACE		SPACE	34
35	"			-	"	C	0 1	0	SPACE		SPACE	36
37	'BUS-ATS LS'	SEE RISER	NONE	21093	100 3	A	70 3	6516	NONE	SEE RISER	'XFMR TANGLA'	38
39	"			-	"	B	"	-			"	40
41	"			-	"	C	"	-			"	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	96.74	118.3	* A-N	32779.4	118.3	CONNECTED	96.74	DATE: Jan 19, 2012
TOTAL DEMAND	85.19	105.4	* B-N	31921.0	115.2	DEMAND	85.19	TIME: 08:09:02
TOTAL DESIGN	85.19	105.4	* C-N	32072.7	115.7	DESIGN	85.19	

PANEL: ALSGLA | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): 60A MLO | CONTINUOUS(A): 60
LOCATION: ELEC RM 2A-472 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 10000
FED FROM: BUS-XFMR ALSGLA | VOLTAGE: 208/120 | FAULT CURRENT(A): 1049

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	DC AMPS P	PHASE	DC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	VF-1	#12	MOTOR LOAD	1130	20 1	A	20 1	500	LIGHTING	#12	ELEVATOR CAB LIGHTS	2
3	RECPT GEN ROOM	#12	RECEPTACLES	180	20 1	B	20 1	1180	MISCELLANEOU	#12	ELEVATOR CAB CONTOLS	4
5	SECURITY EQUIPMENT	#12	MISCELLANEOU	500	20 1	C	20 1	1176	MISCELLANEOU	#12	GATE OPEN MOTOR	6
7	TEL/COM EQUIPMENT	#12	RECEPTACLES	540	20 1	A	20 1	1176	MISCELLANEOU	#12	GATE CLOSE MOTOR	8
9	FCU-1.1	#12	MOTOR LOAD	500	20 1	B	20 1	0	SPARE		SPARE	10
11	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	12
13	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	14
15	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	16
17	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	18
19	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	20
21	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	22
23	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	24
25	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	26
27	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	28
29	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	30
31	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	32
33	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	34
35	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	36
37	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	38
39	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	40
41	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	24.3	24.3	* A-N	2912.9	24.3	CONNECTED	6.28	DATE: Jan 19, 2012
TOTAL DEMAND	6.32	24.8	* B-N	1795.4	14.9	DEMAND	6.32	TIME: 08:09:02
TOTAL DESIGN	6.32	24.8	* C-N	1676.0	14.0	DESIGN	6.32	

PANEL: ANGLA | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): 100 A MLO | CONTINUOUS(A): 100
LOCATION: ELEC RM 2A-472 | DEVICE FAMILY: Bolt On | MOUNTING: Flush | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 10000
FED FROM: BUS-'TANGLA' | VOLTAGE: 208/120 | FAULT CURRENT(A): 1830

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	DC AMPS P	PHASE	DC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	SUMP PUMP	#12	MISCELLANEOU	1176	20 1	A	20 1	900	RECEPTACLES	#12	RECPT LEVEL 1	2
3	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	4
5	SPARE		SPARE	0	20 1	C	20 1	1080	RECEPTACLES	#12	RECPT LEVEL 1-6	6
7	BLUE PHONE POWER	#12	MISCELLANEOU	1920	20 1	A	20 1	180	RECEPTACLES	#12	RECPT ELEVATOR ROOM	8
9	RECPT LEVEL 1-6	#12	RECEPTACLES	1080	20 1	B	20 1	180	RECEPTACLES	#12	RECPT ELEVATOR PIT	10
11	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	12
13	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	14
15	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	16
17	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	18
19	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	20
21	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	22
23	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	24
25	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	26
27	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	28
29	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	30
31	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	32
33	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	34
35	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	36
37	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	38
39	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	40
41	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	6.52	34.8	* A-N	4176.0	34.8	CONNECTED	6.52	DATE: Jan 19, 2012
TOTAL DEMAND	6.52	34.8	* B-N	1260.0	10.5	DEMAND	6.52	TIME: 08:09:02
TOTAL DESIGN	6.52	34.8	* C-N	1080.0	9.0	DESIGN	6.52	

PANEL: AEGHA | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): 250 MCB | CONTINUOUS(A): 250
LOCATION: 1A-222A 1ST FLR ELEC | DEVICE FAMILY: Plug In | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 35000
FED FROM: ATS BUS-'AEGHA' | VOLTAGE: 480/277 | FAULT CURRENT(A): 11094

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	DC AMPS P	PHASE	DC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	JOCKEY PUMP	#12	MOTOR LOAD	3989	20 3	A	80 3	28254	ELEVATORS	3#6,1#8G,1"C	ELEVATOR	2
3	"			-	"	B	"	-			"	4
5	"			-	"	C	"	-			"	6
7	FUTUR ELEVATOR	3#6,1#8G,1"C	ELEVATORS	28254	80 3	A	20 3	12450	MOTOR LOAD	#12	PTAC-1.1	8
9	"			-	"	B	"	-			"	10
11	"			-	"	C	"	-			"	12
13	SPARE		SPARE	0	20 1	A	20 1	0	SPARE		SPARE	14
15	SPARE		SPARE	0	20 1	B	20 1	0	SPARE		SPARE	16
17	SPARE		SPARE	0	20 1	C	20 1	0	SPARE		SPARE	18
19	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	20
21	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	22
23	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	24
25	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	26
27	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	28
29	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	30
31	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	32
33	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	34
35	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	36
37	SPACE		SPACE	0	0 1	A	0 1	0	SPACE		SPACE	38
39	SPACE		SPACE	0	0 1	B	0 1	0	SPACE		SPACE	40
41	SPACE		SPACE	0	0 1	C	0 1	0	SPACE		SPACE	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	70.35	84.6	* A-N	23451.3	84.6	CONNECTED	70.35	DATE: Jan 19, 2012
TOTAL DEMAND	56.40	67.8	* B-N	23451.3	84.6	DEMAND	56.40	TIME: 08:09:02
TOTAL DESIGN	56.40	67.8	* C-N	23451.3	84.6	DESIGN	56.40	

ALSGHA	ANGHA
ALSGLA	ANGLA
AEGHA	

01	ISSUE FOR BID	08/08/2011
1	ADDENDUM NO. 001	01/19/2012
Revisions:		Date:

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Drawing Title: Electrical Panel Schedules
Approved: Project Director

Project Title: 580-317 PARKING GARAGE A PHASE I
Location: VAMC | HOUSTON, TX.
Date: 08/08/2011 | Checked: TZD | Drawn: ISA

Project Number: 1054007.0 (HOK Project No. 10.10019.00)
Building Number: A
Drawing Number: E8.01
Dwg ___ of 300

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VA FORM 08-6231