# Department of Veterans Affairs

PROJECT LOCATION:

## EDWARD HINES, JR. VA HOSPITAL

5000 SOUTH 5TH AVENUE
HINES, ILLINOIS 60141

PROJECT TITLE:

## RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

BUILDING NUMBER:

## 200

ARCHITECTS + ENGINEERS:

## BANCROFT ARCHITECTS + ENGINEERS

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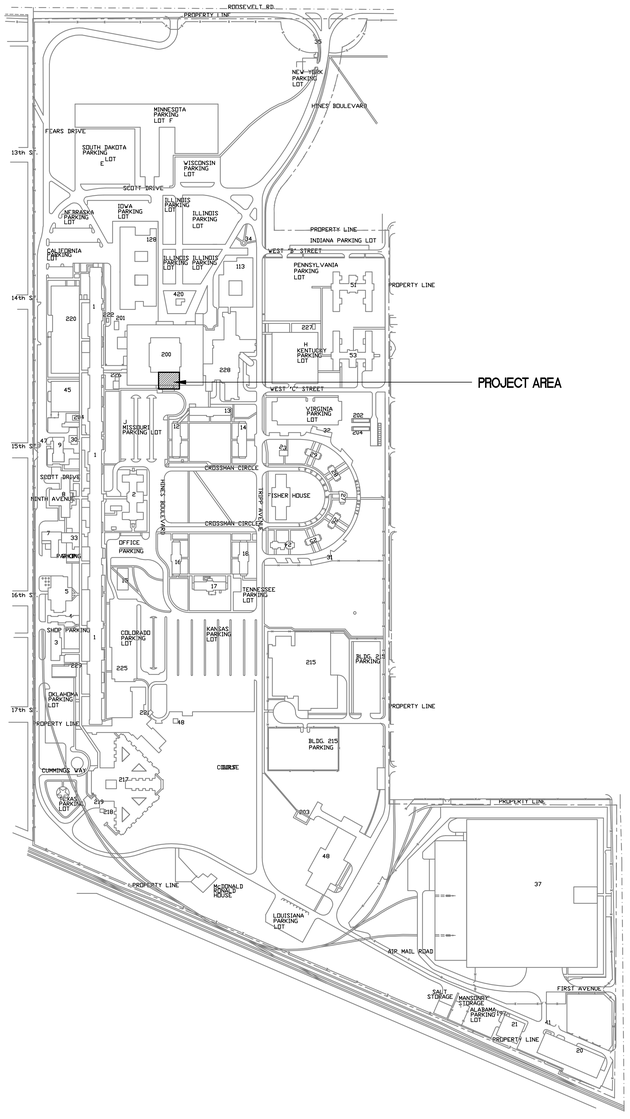
PROJECT NUMBERS:

VA CONTRACT NO. VA69D-13-C-0324
STATION PROJECT NO. 578-15-026
BANCROFT-AE PROJECT NO. 13-126

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| Drawing Title: COVER SHEET | Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM | Project Number: 578-15-026 | Office of Construction and Facilities Management |
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## GRAPHIC SYMBOLS

- DEMOLITION, ARCHITECTURAL AND ELEVATION KEYNOTE
- PARTITION TAG
- DOOR NUMBER
- WINDOW TAG
- NORTH ARROW
- INTERIOR ELEVATION (SINGLE)
- INTERIOR ELEVATION (MULTIPLE)
- WALL SECTION DETAIL NUMBER DRAWING NUMBER
- ELEVATION TAG
- DETAIL BUBBLE DETAIL NUMBER DRAWING NUMBER
- REVISION CLOUD AND NUMBER
- ROOM TAG ROOM NAME ROOM NUMBER

## MATERIAL INDICATIONS

- EARTH
- CONCRETE
- STEEL
- BATT INSUL.
- SHIM OR NAILER
- WOOD BLOCKING
- HARDWOOD
- METAL STUD
- GYPSUM BOARD SURFACE
- GYPSUM BOARD
- ACOUSTICAL CEILING TILE
- RIGID INSUL.

## ABBREVIATIONS

| | |
|---|---|
| ACT | ACOUSTICAL CEILING TILE |
| ADJ | ADJACENT |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| AMT | AMOUNT |
| APPROX | APPROXIMATE |
| AUTO | AUTOMATIC |
| AUX | AUXILIARY |
| AV | AUDIO VISUAL |
| AVG | AVERAGE |
| BAT | BATTEN |
| BD | BOARD |
| BLDG | BUILDING |
| BLK | BLOCKING |
| BM | BEAM |
| BO | BY OWNER |
| CEM | CEMENT |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CLG | CEILING |
| CLR | CLEAR |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| COORD | COORDINATE |
| CORR | CORRIDOR |
| CT | CERAMIC TILE |
| CTR | CENTER |
| CTRL | CONTROL |
| DAT | DATUM |
| DBL | DOUBLE |
| DEG | DEGREE |
| DEMO | DEMOLITION |
| DEPT | DEPARTMENT |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DIFF | DIFFUSER |
| DIM | DIMENSION |
| DN | DOWN |
| DR | DOOR |
| DTL | DETAIL |
| DWG | DRAWING |
| E | EAST |
| EA | EACH |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRIC |
| ELEV | ELEVATOR |
| ENCL | ENCLOSURE |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EXH | EXHAUST |
| EXIST | EXISTING |
| EXP | EXPOSED |
| EXT | EXTERIOR |
| FA | FIRE ALARM |
| FD | FLOOR DRAIN |
| FDN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEC | FIRE EXTINGUISHER CABINET |
| FF&E | FURNITURE, FIXTURE, AND EQUIPMENT |
| FHC | FIRE HOSE CABINET |
| FIG | FIGURE |
| FIN | FINISH |
| FIXT | FIXTURE |
| FL | FLOOR |
| FO | FACE OF |
| FP | FIRE PROTECTION OR FIREPROOF |
| FT | FOOT |
| FTG | FOOTING |
| GC | GENERAL CONTRACTOR |
| GL | GLASS |
| GYP BD | GYPSUM BOARD |
| HAZ MAT | HAZARDOUS MATERIALS |
| HDW | HARDWARE |
| HM | HOLLOW METAL |
| HT | HEIGHT |
| INCL | INCLUDED |
| INSUL | INSULATION |
| INT | INTERIOR |
| JAN | JANITOR |
| JST | JOIST |
| JT | JOINT |
| J-BOX | JUNCTION BOX |
| LAM | LAMINATE |
| LAV | LAVATORY |
| LED | LIGHT EMITTING DIODE |
| LF | LINEAR FEET (FOOT) |
| LL | LEAD LINED |
| LT | LIGHT |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MLWK | MILLWORK |
| MO | MASONRY OPENING |
| MR | MOISTURE RESISTANT |
| MTD | MOUNTED |
| MTG | MOUNTING |
| MTL | METAL |
| N | NORTH |
| N/A | NOT APPLICABLE |
| NAT | NATURAL |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| OA | OVERALL |
| OC | ON CENTER |
| OH | OPPOSITE HAND |
| OPNG | OPENING |
| OPT | OPTIONAL |
| PAT | PATTERN |
| PL | PLATE |
| PLAM | PLASTIC LAMINATE |
| PLAS | PLASTER OR PLASTIC |
| PR | PAIR |
| PRE | PREFINISHED |
| PREP | PREPARATION |
| PROVIDE | FURNISH AND INSTALL |
| PT | PAINT |
| PTME | PAINT TO MATCH EXISTING |
| PTN | PARTITION |
| PWR | POWER |
| QT | QUARRY TILE |
| QTR | QUARTER |
| QTY | QUANTITY |
| R | RADIUS |
| RB | RESILIENT BASE |
| RCP | REFLECTED CEILING PLAN |
| REC | RECESSED |
| RECPT | RECEPTACLE |
| REINF | REINFORCED |
| REQD | REQUIRED |
| RM | ROOM |
| RO | ROUGH OPENING |
| S | SOUTH |
| SAN | SANITARY |
| SCHED | SCHEDULE |
| SF | SQUARE FOOT (FEET) |
| SHT | SHEET |
| SIM | SIMILAR |
| SPEC | SPECIFICATION |
| SPKLR | SPRINKLER |
| SPKR | SPEAKER |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STD | STANDARD |
| STOR | STORAGE |
| SUSP | SUSPEND |
| SV | SHEET VINYL |
| T&G | TONGUE AND GROOVE |
| TEMP | TEMPERED |
| TERR | TERRAZZO |
| THK | THICK |
| TO | TOP OF ___ |
| TSTAT | THERMOSTAT |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| VAR | VARIES |
| VCT | VINYL COMPOSITION TILE |
| VENT | VENTILATION |
| VIF | VERIFY IN FIELD |
| VOL | VOLUME |
| VWC | VINYL WALL COVERING |
| W | WEST |
| W/ | WITH |
| W/O | WITHOUT |
| WC | WALL COVERING |
| WD | WOOD |
| WDW | WINDOW |
| WWF | WELDED WIRE FABRIC |

## DEMOLITION PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY, INCLUDING WALL SWITCHES, OUTLETS, THERMOSTATS, ETC. PATCH ABUTTING WALLS, FLOORS AND CEILINGS AS REQUIRED. REMOVE EXISTING ITEMS SCHEDULED TO REMAIN AS NECESSARY TO ALLOW THE COMPLETE DEMOLITION OF SELECTED ITEMS. REPAIR/REPLACE EXISTING ITEMS ONCE DEMOLITION IS COMPLETED.
- AREA NOT IN CONTRACT

## DEMOLITION CEILING PLAN LEGEND

- EXISTING CEILING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY.
- SMOKE DETECTOR
- VISUAL ALARM DEVICE
- AUDIO VISUAL ALARM DEVICE
- DOWNLIGHT
- 2'X4' LIGHT FIXTURE
- WIRELESS ACCESS POINT
- EXHAUST/RETURN GRILLE
- SUPPLY DIFFUSER
- 1x4 LIGHT FIXTURE
- REMOVE SPRINKLER HEAD

## ELECTRICAL DRAWING LEGEND

- SINGLE POLE TOGGLE SWITCH
- EXIT SIGN (DARKEN QUADRANT INDICATES ORIENTATION OF FACE)
- WALL MOUNTED EMERGENCY BATTERY LIGHT FIXTURE
- OCCUPANCY SENSOR, DUAL TECHNOLOGY (PIR/ULTRASONIC)
- VACANCY SENSOR
- HEAT DETECTOR
- MOTOR CONNECTION

## MECHANICAL DRAWING LEGEND

- SUPPLY AIR DIFUSER
- RETURN AIR GRILLE
- EXHAUST FAN AIR GRILLE/REGISTER WITH VOLUME DAMPER

## MISCELLANEOUS

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE AND ORDERLY WORK SITE AT ALL TIMES.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE LOADING/UNLOADIING AND HANDLING OF ALL MATERIAL TO AND FROM THE CONSTRUCTION SITE
3. ALL APPLICABLE OSHA REQUIREMENTS LOCAL BUILDING CODES AND THOSE OF ANY OTHER APPLICABLE REGULATORY AGENCY SHALL BE STRICTLY ADHERED TO.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
5. ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND STRUCTURAL, MECHANICAL, ELECTRICAL, PIPING, PLUMBING ANDFIRE PROOFING CONSULT THESE DRAWINGS FOR SLEEVES, DIMENSIONS AND OTHER DETAILS NOT SHOWN ON ARCHITECTURAL DRAWINGS.
6. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING & STABLE AFTER THE AREA IS COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCING TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THESE INCLUDE THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING GUYS OR TIE DOWNS.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING SHOP DRAWINGS OR ANY WORK.
8. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO OWNER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO DETAILS & GIVEN DIMENSIONS IN THE CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

## REFLECTED CEILING PLAN LEGEND

- CEILING OPEN TO STRUCTURE
- 2' X 2' SUSPENDED CEILING
- 2'x2' NIGHT LIGHT
- 2'x2' LIGHT FIXTURE
- 1'x4' STRIP LIGHT FIXTURE
- NIGHT STRIP LIGHT FIXTURE
- EXHAUST/RETURN GRILLE
- NEW SPRINKLER HEAD

## BASIS OF DESIGN

GENERAL

1. THE SCOPE OF THIS PROJECT IS TO DIVIDE THE EXISTING POOL ROOM INTO TWO ELECTRICAL ROOMS AND ONE STORAGE ROOM.

EXISTING CONDITIONS/DEMOLITION

1. THE EXISTING POOL AREA IS BEING RE-PURPOSED AND WILL BE USED AS ELECTRICAL ROOMS AND STORAGE ROOM. PROVIDE STEEL AND CONCRETE FLOOR AT THE POOL AREA TO SUPPORT THE (2) NORMAL SWITCHGEARS AND (2) EMERGENCY SWITCHGEARS IN TWO SEPARATE ROOMS.

DESIGN CRITERIA

1. THE ARCHITECTURAL DESIGN FOR THIS PROJECT IS BASED ON THE FOLLOWING PUBLICATIONS, CODES, SPECIFICATIONS, ETC.:
   - NFPA 101
   - INTERNATIONAL BUILDING CODE (IBC)
   - AMERICANS WITH DISABILITIES ACT (ADA)
   - ASHRAE STANDARD 90.1-2007
   - VA MASTER SPECIFICATIONS (H-08-1)
   - VA STANDARD DETAILS (H-08-4)

DESIGN CONDITIONS

1. REMOVING EXISTING BASE OF THE POOL AND THE AREA WILL BE CLOSED WITH STEEL I BEAMS AND TOPPED WITH CONCRETE SLAB ON REINFORCED COMPOSITE DECK. THE SPACE IS DIVIDED INTO 3 ROOMS, 2 ELECTRICAL ROOMS AND ONE GENERAL STORAGE ROOM.
2. STEEL BEAMS, COLUMNS, METAL DECK AND ALL THE WILL BE SPRAYED WITH ONE HOUR INTUMES FIRE RETARDANT SPRAY.
3. IN THE POOL AREA, THE EXISTING FLOOR CERAMIC TILES IN THE NEW ELECTRICAL ROOMS AND THE STORAGE ROOM WILL RECEIVE LAY-ARDEX SELF-LEVELING UNDER LAYMENT OR APPROVED EQUAL, WITH THE EPOXY FLOOR TOPPING. ALL THE EXISTING CERAMIC TILE WALLS NEED TO BE CLEANED AND PATCHED AS REQUIRED.
4. THE EXISTING ELECTRICAL STORAGE ROOM IS BEEN GUTTED OUT TO PROVIDE AN OPEN SPACE FOR NEW CONTROL ROOM.
5. THE CONTROL ROOM WILL RECEIVE VCT FLOORING. ALL THE WALLS NEED TO BE PAINTED.

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
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VA CONTRACT NO. VA69D-13-C-0324

| | |
|---|---|
| Drawing Title | GENERAL NOTES AND SYMBOLS |
| Approved: Project Director | |
| Project Title | RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM |
| Location | HINES, ILLINOIS |
| Date | 07/01/2015 |
| Checked | MP |
| Drawn | AKP |
| Project Number | 578-15-026 |
| Building Number | 200 |
| Drawing Number | G-001 |

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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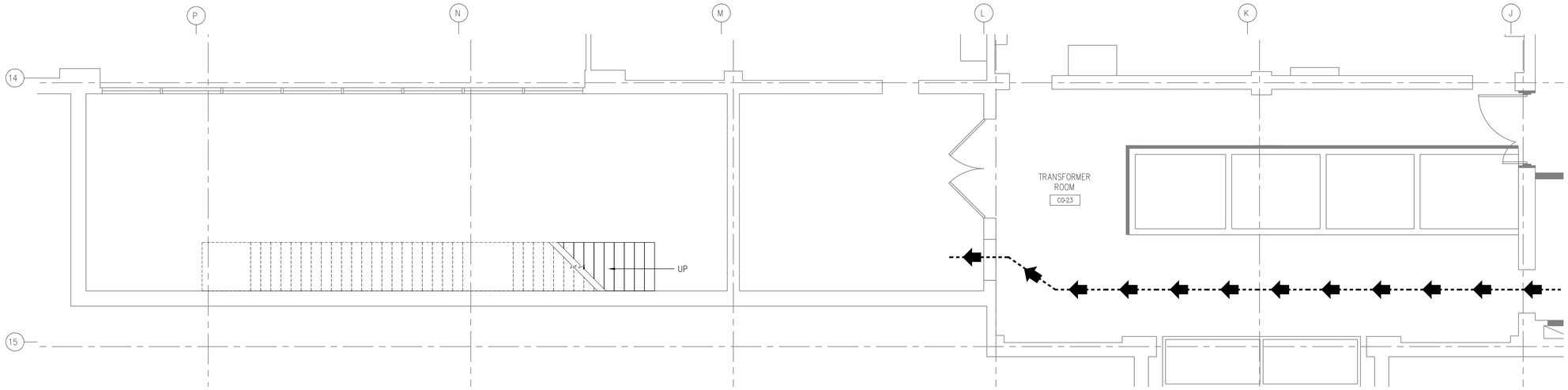


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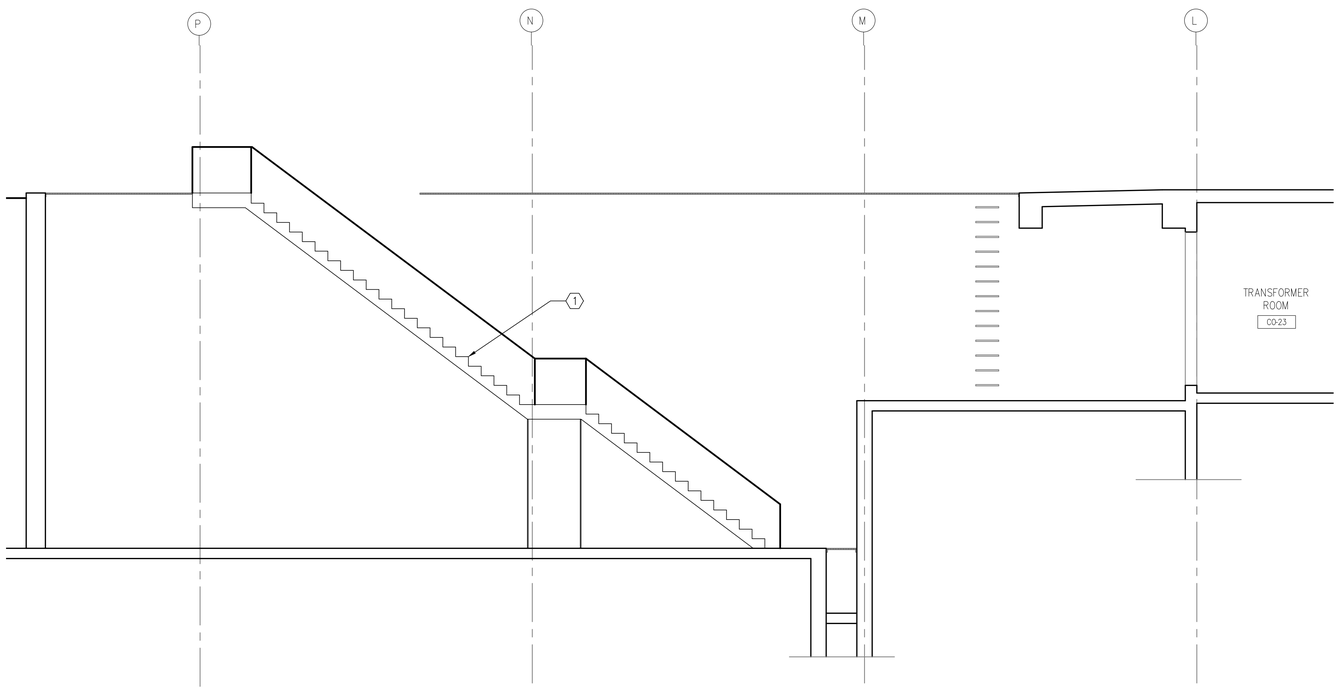
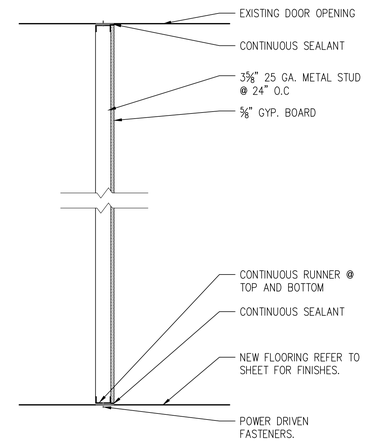
## A INFECTION CONTROL FLOOR PLAN
1/4"=1'-0"




## 1 TEMPORARY STAIR SECTION
1/4"=1'-0"




## 2 TEMP. METAL STUD WALL TYPE
1"=1'-0"

## INFECTIOUS CONTROL DESIGN NOTES:

| | |
|---|---|
| **TYPE A**<br>Minimal Fire Risk | **Inspection and Non-Invasive Activities.**<br>Includes, but is not limited to:<br>• removal of ceiling tiles for visual inspection limited t 1 tile per 50 square feet<br>• painting (but not sanding)<br>• wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.<br>• Removal of floor tile less than 25 square feet, non-ACM and no grinding or dust generating activities |
| **TYPE B**<br>Limited Fire Risk | **Small scale, short duration activities which create minimal dust**<br>Includes, but is not limited to:<br>• installation of telephone and computer cabling<br>• access to chase spaces<br>• cutting of walls or ceiling where dust migration can be controlled. |
| **TYPE C**<br>Moderate Fire Risk | **Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies**<br>Includes, but is not limited to:<br>• sanding of walls for painting or wall covering<br>• removal of floor coverings, ceiling tiles and casework<br>• new construction or renovations over 3 days duration<br>• major duct work, plumbing, piping, or electrical work<br>• soldering or brazing operations<br>• ANY activity that requires a burn permit |
| **TYPE D**<br>Significant Fire Risk | **Major demolition and construction projects**<br>Includes, but is not limited to:<br>• activities which require consecutive work shifts<br>• requires heavy demolition or removal of a complete building system<br>• new construction or renovations over 3 days duration |

## LEGEND

MATERIAL DELIVERY:
ROUTE FROM CONSTRUCTION AREA TO SERVICE ELEVATORS

## (X) KEY NOTES

1. TEMPORARY STAIRS DESIGNED BY CONTRACTOR BASED ON OSHA REQUIREMENTS.

## DESCRIPTION OF REQUIRED INFECTION CONTROL PRECAUTIONS BY CLASS

DURING CONSTRUCTION PROJECT

1. REMOVE OR ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM.
2. COMPLETE ALL CRITICAL BARRIERS I.E. SHEETROCK, PLYWOOD, PLASTIC, TO SEAL AREA FROM NON WORK AREA OR IMPLEMENT CONTROL CUBE METHOD (CART W/PLASTIC COVERING AND SEALED CONNECTION TO WORK SITE WITH HEPA VACUUM FOR VACUUMING PRIOR TO EXIT) BEFORE CONSTRUCTION BEGINS.
3. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
4. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING UNLESS SOLID LID.
1. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY OWNER'S SAFETY DEPARTMENT AND INFECTION CONTROL DEPARTMENT AND THOROUGHLY CLEANED BY THE OWNER'S ENVIRONMENTAL SERVICES DEPARTMENT.

UPON COMPLETION OF PROJECT

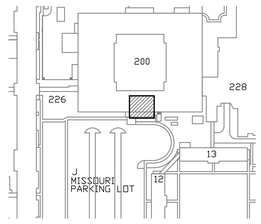
2. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
3. VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.
4. WET MOP AREA WITH DISINFECTANT.
5. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

## INFECTION CONTROL NOTES

- HVAC CONNECTIONS TO EXISTING SYSTEM TO BE DISCONNECTED DURING CONSTRUCTION.
- G.C TO SUPPLY A NEGATIVE PRESSURE MACHINE OF SUFFICIENT SIZE & QUANTITY TO ADEQUATELY HANDLE CONSTRUCTION AREAS.
- ALL AREAS OF NEGATIVE AIR WILL BE MONITORED BY A TRIATEK MONITOR PER ILLINOIS VA GUIDELINES.
- CONTRACTOR WILL VERIFY AND TEST NEGATIVE AIR FLOW.
- CONTRACTOR TO MAINTAIN A NEGATIVE AIR PRESSURE LOG.
- ALL CONSTRUCTION ENTRANCES TO BE PROPERLY LABELED TO COMPLY WITH VA AND OSHA REQUIREMENTS.
- CONTRACTOR TO PROVIDE HAND SANITIZERS AT ALL ENTRANCE POINTS.
- ALL NEW CONSTRUCTION MATERIALS, TOOLS AND EQUIPMENT PASSING THROUGH HOSPITAL TO BE COVERED WITH 4 MIL. POLY SHEETS.
- THE CONTRACTOR SHALL NOT BLOCK OR HINDER THE USE OF THE BUILDINGS BY PATIENTS, STALL & VISITORS.

## LEGEND

NEW PARTITION
EXISTING PARTITION
XXX DOOR TAG
X PARTITION TAG
EXISTING DOOR
NEW DOOR
XXXXX 1001 ROOM NAME AND NUMBER

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## KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| | |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |
| Revisions: | Date |

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Drawing Title: INFECTION CONTROL PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

Drawing Number: G-101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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STRUCTURAL GENERAL NOTES

BUILDING CODE IBC 2012

RISK CATEGORY
IV BUILDING ALTERATION - IBC CHAPTER 3404

STRUCTURAL LOADING DATA - TENANT STRUCTURAL IMPROVEMENTS

FLOOR LOAD
DEAD LOAD 75 psf
DEAD LOAD SUPERIMPOSED 50 psf
(2" TOPPING. FIREPROOFING + SUSPENDED MEP)
LIVE LOAD 300 psf

SNOW LOAD NA

WIND LOADS NA MWFRS

SEISMIC LOADS

| | |
|---|---|
| RISK CATEGORY | IV |
| SEISMIC IMPORTANCE FACTOR | 1.5 |
| Ss | 0.173 |
| S1 | 0.058 |
| SITE CLASS | D |
| Sds | 0.185 |
| Sd1 | 0.093 |
| SEISMIC DESIGN CATEGORY | B |

GENERAL
1. THE STRUCTURAL FRAMING INDICATED ON THE FOLLOWING STRUCTURAL DOCUMENTS ARE TENANT IMPROVEMENTS (ALTERATIONS) TO AN EXISTING STRUCTURE. STRUCTURAL IMPROVEMENTS ARE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE NOTED ABOVE AND SECTION 3404 OF IBC 2012.
2. ALL EXISTING FRAMING SHOWN IS BASED ON EITHER THE ORIGINAL STRUCTURAL DESIGN DRAWINGS OR FIELD SURVEY INFORMATION PROVIDED BY OTHERS.
3. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS INCLUDING ALL DIMENSIONS AND ELEVATIONS.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DESIGN DOCUMENTS. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
5. REFERENCE MUST BE MADE TO ALL BID DOCUMENTS AS WELL AS THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS AND WITH THE MECHANCIAL CONTRACTOR, THE LOCATION OF ALL MECHANCIAL EQUIPMENT.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF THE WEIGHT OF MECHANICAL UNITS ETC. ARE DIFFERENT FROM THE WEIGHTS POSTED ON THE DESIGN DRAWINGS. DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TO AVOID THE POSSIBILITY OF UNNECESSARY FUTURE PROBLEMS AND POSSIBLE FIELD ORDERS. FAILURE TO DO SO WILL PUT THE FULL RESPONSIBILITY OF CORRECTION ON THE CONTRACTOR.
8. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS. DO NOT SCALE DRAWINGS. THE STRUCTURAL ENGINEER HAS NO SUPERVISORY RESPONSIBLITY, HAS NO CONTROL OF OR RESPONSIBLITIY FOR THE MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCE OF CONSTRCUCTION, HAS NO RESPONSIBILITY FOR THE FAILURE OF ANY CONTRACTOR TO PERFORMTHE WORK IN ACCORDANCE WITH THE DESIGN DOCUMENTS AND NO RESPONSIBILITY TO DEVISE, IMPLEMENT OR ENFORCE ANY SAFETY PRECAUTIONS OR PROGRAMS FOR THE PROJECT.

SHORING AND UNDERPINNING FOUNDATIONS
1. ALL SHORING OF EXISTING FOUNDATIONS REQUIRED BY THE CONTRACTOR DUE TO EXCAVATIONS NEAR EXISTING STRUCTURES AND UNDERPINNING OF EXISTING FOUNDATIONS AS INDICATED ON THE DESIGN DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR'S GEOTECHNICAL AND LICENSED STRUCTURAL ENGINEERS. ANY UNDERPINNING PROCEDURES INDICATED ON THE DESIGN DRAWINGS ARE CONCEPTUAL ONLY AND SHALL BE CONFIRMED BY THE CONTRACTOR'S GEOTECHNICAL AND STRUCTURAL ENGINEERS. SUBMIT SHORING AND UNDERPINNING PROCEDURES AND SEALED CALCULATIONS TO THE ARCHITECT FOR RECORD PURPOSES ONLY.

CONCRETE
1. GENERAL REQUIREMENTS
2. ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-02, SPECIFICATION FOR STRUCTURAL CONCRETE, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

SUBMITTALS
1. CONCRETE MIXES WITH HISTORICAL TEST DATA.
2. MATERIAL CERTIFICATES: CEMENT, AGGREGATES, ADMIXTURES, REINFORCING STEEL REINFORCING STEEL PLACEMENT DRAWINGS

PRODUCTS
1. REINFORCING BARS: ASTM A615 GRADE 60
2. REINFORCING BARS WELDABLE: ASTM A706 GRADE 60
3. PLAIN WIRE FABRIC: ASTM A185
4. PORTLAND CEMENT: ASTM C150 TYPE I OR II.
5. AGGREGATES: ASTM C33
6. POTABLE ASTM C94

ADMIXTURES
1. AIR ENTRAINING ASTM C260
2. CHEMICAL ADMIXTURES ASTM C 494
3. AIR CONTENT FOR CONCRETE EXPOSED TO WEATHER: 4 TO 7%
4. SLUMP: 4"
5. CONCRETE STRENGTH: F'C 4,000 PSI AT 28 DAYS
6. MIXING PER ASTM C94
7. CURING COMPOUNDS: ASTM C309 OR C1315

EXECUTION
1. CONCRETE COVER
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER 2"
   CONCRETE NOT EXPOSED TO WEATHER 1-1/2"
2. ALL FOOTINGS, WALL FOOTINGS, GRADE BEAMS AND PILE/CAISSON CAPS SHALL BE FORMED UNLESS NOTED. LAP SPLICE LENGTHS PER ACI 318 CHAPTER 12 USING A CLASS B SPLICE. ALL WELDED WIRE FABRIC SHALL BE LAPPED ONE GRID MINIMUM ALL SLAB-ON-GRADE CONSTRUCTION JOINTS SHALL BE KEYED; REINFORCING SHALL NOT PASS THROUGH; 24 HOURS MINIMUM BETWEEN ADJACENT POURS. LOCATE JOINTS AS SHOWN ON PLANS; WHERE NOT SHOWN, CONTROL OR CONSTRUCTION JOINTS SHALL BE PLACED IN ACCORDANCE WITH ACI RECOMMENDATIONS I.E., A MAXIMUM PANEL SIZE (IN FEET) EQUAL TO APPROXIMATELY THREE TIMES THE THICKNESS OF THE SLAB (IN INCHES) IN BOTH DIRECTIONS. HOOK ENDS OF BARS INTERRUPTED BY OPENINGS. HOOK TOP BARS AT ALL EDGES. AT ALL WALL AND SLAB OPENINGS, PROVIDE 2-#5 BARS X OPENING WIDTH PLUS 4 FEET (2 FEET EACH SIDE) EACH FACE, UNLESS SHOWN OTHERWISE. PLACEMENT OF CONCRETE IN COLD WEATHER SHALL COMPLY WITH ACI306 PLACEMENT OF CONCRETE IN HOT WEATHER SHALL COMPLY WITH ACI305 TOLERANCES SHALL MEET ACI 117, ACI 301 AND ACI 318 AS A MINIMUM.

STRUCTURAL STEEL

GENERAL
1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" 2005, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" 2004, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," 2005 AND AWS D1.1 2004. THE PROVISIONS OF THE ALLOWABLE STRENGTH DESIGN METHOD (ASD) WAS USED AS A BASIS FOR DESIGN. ALL FORCES/REACTIONS INDICATED ON THE DESIGN DOCUMENTS ARE THEREFORE NON-FACTORED ASD FORCES/REACTIONS. THE CONTRACTOR'S STRUCTURAL STEEL DETAILER SHALL PREPARE STEEL ERECTION AND SHOP DRAWINGS IN ACCORDANCE WITH THE GUIDELINES AND GOOD PRACTICES NOTED IN THE AISC "DETAILING FOR STEEL CONSTRUCTION."THIRD EDITION

SUBMITTALS
1. CHECKED STEEL SHOP DRAWINGS.PREPARED IN ACCORDANCE WITH AISC DETAILING FOR STEEL CONSTRUCTION 3RD ED. CONNECTION CALCULATIONS PREPARED, SIGNED AND SEALED BY CONTRACTOR'S LICENSED STRUCTURAL ENGINEER. MATERIAL CERTIFICATES (UPON REQUEST) WELDING CERTIFICATES (UPON REQUEST)
2. STAIR/HANDRAIL/GUARDRAIL STRUCTURAL CALCULATIONS PREPARED, SIGNED AND SEALED BY CONTRACTOR'S LICENSED STRUCTURAL ENGINEER.

MATERIALS
1. ALL STRUCTURAL STEEL SHAPES SHALL BE ASTM A992 (Fy=50 ksi)
2. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A36 (Fy=36 KSI).
3. ALL STRUCTURAL TUBES SHALL BE ASTM A500 GRADE B (Fy=46 KSI).
4. ALL STRUCTURAL PIPES SHALL BE ASTM A53 GRADE B (Fy=35 KSI).
5. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", AWS D1.1.
6. ALL WELD ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDING TO CLEAN BARE STEEL.
7. ALL WELD SIZES SHOWN ARE SIZED FOR LOAD ONLY. WELDS SHALL BE INCREASED IN SIZE AS REQUIRED TO MEET AISC MINIMUMS.
8. ALL GROOVE WELDS SHOWN ARE FULL PENETRATION WELDS UNLESS NOTED OTHERWISE. WELDS NOTED AS PARTIAL PENETRATION GROOVE WELDS SHOW "EFFECTIVE" SIZE OF WELD. WELD JOINTS SHALL BE DETAILED BASED ON PROCESS USED AND POSITION OF WELD TO MEET THE "EFFECTIVE" SIZE SHOWN ON THE DRAWINGS.
9. ALL BOLTING SHALL BE WITH 3/4" DIAMETER A325 (BEARING TYPE) HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL CONFORM TO AISC "MANUAL OF STEEL CONSTRUCTION", 13TH ED., TABLE 10-1. MINIMUM CONNECTION CAPACITY SHALL BE 50% OF THE TOTAL UNIFORM LOAD CAPACITY NON COMPOSITE BEAMS AND 75% OF THE TOTAL UNIFORM LOAD CAPACITY FOR COMPOSITE BEAMS AS SHOWN IN TABLES OF "UNIFORM LOAD CONSTANTS" IN PART 3 OF THE MANUAL, UNLESS LARGER REACTIONS ARE SHOWN ON THE DRAWINGS.
10. PROVIDE FULL SIZE 1/4" SETTING PLATES ON 4,000 PSI NON-SHRINK GROUT FOR ALL COLUMNS AND (4)-3/4" DIAMETER ASTM F-1554-36 ANCHOR BOLTS, UNLESS NOTED. ERECT ALL MEMBERS WITH NATURAL CAMBER UP, EXCEPT FOR CERTAIN CANTILEVERED MEMBERS.
11. PROVIDE SUB-FRAMING FOR EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE STRUCTURE.
12. ALL STEEL SHALL BE SHOP COATED WITH PRIME PAINT AS SPECIFIED. MASK SURFACES TO BE FIELD WELDED AND AT BOLT HOLES IN FAYING SURFACES OF SLIP CRITICAL BOLTED CONNECTIONS.

EXECUTION

1. VERIFY THAT FIELD CONDITIONS ARE ACCEPTABLE AND ARE READY TO RECEIVE WORK.
2. STEEL ERECTION TOLERANCES SHALL BE IN ACCORDANCE WITH THE CODE OF STANDARD PRACTICE.

COMPOSITE METAL DECK

COMPOSITE METAL DECK SHALL CONFORM TO STEEL DECK INSTITUTE. COMPOSITE METAL DECK SHALL BE 2"-20 GAGE STEEL DECK, UNLESS NOTED, WITH INTERLOCKING SIDE LAPS (MIN. S=0.21 in3/FT). DECK SHALL HAVE ROLLED-IN EMBOSSMENTS (SHEAR LUGS) CAPABLE OF DEVELOPING COMPOSITE ACTION BETWEEN CONCRETE AND METAL DECK. LAY DECK 3 SPANS MINIMUM CONTINUOUS. PROVIDE MID-SPAN SHORING AS REQUIRED BY MANUFACTURER. WELDING SHALL BE SAME AS FOR METAL ROOF DECK. WELDING MAY BE OMITTED AT LOCATIONS WHERE SHEAR CONNECTORS ARE WELDED THRU DECK. SHEAR STUDS SHALL BE 3/4" DIAMETER HEADED STUDS WITH MINIMUM 1/2" CONCRETE COVER ABOVE THE STUD. QUANTITIES ARE INDICATED ON PLANS THUS (XX) WHERE XX IS THE QUANTITY OF STUDS EQUALLY SPACEDALONG THE BEAM. CONDUITS ARE NOT PERMITTED IN DECK SLABS.
IF CONSTRUCTION JOINTS IN THE SLAB ARE REQUIRED, THEY SHALL BE LOCATED AS FOLLOWS:
- JOINTS PARALLEL TO INFILL BEAMS
- LOCATE JOINT AT MID SPAN BETWEEN INFILL BEAMS.
- CONTINUE WWF THROUGH THE CONSTRUCTION JOINT OR PROVIDE #4X2' DOWELS 12" O.C.
- JOINTS PERPENDICULAR TO INFILL BEAMS - LOCATE JOINTS AT 1/4 SPAN OF THE INFILL BEAM. CONTINUE WWF THROUGH THE CONSTRUCTION JOINT OR PROVIDE #4X2' DOWELS 12" O.C.

SLEEVES, ANCHORAGES, OPENINGS, ETC.

IN GENERAL, STRUCTURAL DRAWINGS DO NOT SHOW EQUIPMENT PADS, DRAINS, HOLES, ANCHORAGES, INSERTS AND SLEEVES FOR ITEMS PASSING THROUGH OR ATTACHED TO CONCRETE OR FRAMING. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROJECT SPECIFICATIONS. ADJUST EQUIPMENT PADS AND SUBFRAMING TO FIT EQUIPMENT FURNISHED. PROVIDE SUBFRAMING FOR EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE STRUCTURE.

STRUCTURAL STABILITY AND CONSTRUCTION

1. INDIVIDUAL STRUCTURAL COMPONENTS ARE DESIGNED TO SUPPORT LOADS IN THEIR FINAL ERECTED POSITION AS PART OF THE TOTAL COMPLETED STRUCTURE. PROVIDE TEMPORARY GUYING AND BRACING AS REQUIRED UNTIL ALL CONSTRUCTION AFFECTING LATERAL STABILITY IS COMPLETED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR STABILITY OF STRUCTURE, ITS PARTS AND JOB SITE SAFETY BY USE OF GUYING, BRACING, SHORING, BARRICADES, SAFETY RAILINGS AND DEVICES DURING THE ENTIRE PERIOD OF CONSTRUCTION.

SHOP DRAWINGS AND TEST REPORTS

GENERAL CONTRACTOR SHALL CHECK ALL SHOP DRAWINGS BEFORE SUBMITTAL TO ARCHITECT/ENGINEER FOR REVIEW. REVIEW BY ARCHITECT/ENGINEER WILL BE FOR CONFORMANCE TO GENERAL LAYOUT AND DESIGN INTENT ONLY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ACCURACY OF DIMENSIONS, FABRICATION, FIT UP OF PARTS AND BILLS OF MATERIALS. CONTRACTOR SHALL COORDINATE WORK OF VARIOUS TRADES AND MAKE NECESSARY FIELD MEASUREMENTS. THE CONTRACT SPECIFICATIONS PROVIDE A COMPLETE LISTING OF SUBMITTALS.
THE FOLLOWING IS A SUMMARY OF THE REQUIRED SUBMITTALS:

CONCRETE
1. PRODUCT DATA SHEETS
2. PROPOSED CONCRETE MIX DESIGNS WITH ASSOCIATED HISTORICAL TEST DATA. MATERIAL CERTIFICATIONS
3. REINFORCING STEEL PLACEMENT DRAWINGS PER ACI 315
4. FIELD QUALITY CONTROL TESTS: SLUMP, AIR CONTENT, COMPRESSIVE STRENGTH ETC.

STRUCTURAL STEEL
1. PRODUCT DATA SHEETS
2. MATERIAL CERTIFICATIONS
3. STRUCTURAL STEEL SHOP DRAWINGS
4. CONNECTION DESIGN CALCULATIONS SIGNED AND SEALED BY PROFESSIONAL ENGINEER.

METAL DECK (ROOF/COMPOSITE/FORM ETC
1. PRODUCT DATA SHEETS
2. MATERIAL CERTIFICATIONS
3. SHOP DRAWINGS

UNDERPINNING SHORING PROCEDURES AND SEALED CALCULATIONS

DESIGN DELEGATION
CERTAIN COMPONENTS OF THE COMPLETED CONSTRUCTION ARE BEING DESIGN DELEGATED TO THE MANUFACTURER OF THE COMPONENT. THE FOLLOWING ARE DESIGNATED TO BE DESIGN DELEGATED ON THIS PROJECT
STRUCTURAL STEEL CONNECTIONS
TEMPORARY SHORING AND BRACING
TEMPORARY EARTH RETENTION SYSTEMS
OTHER WORK AS LISTED ON DRAWINGS, SPECIFICATIONS AND CUSTOMARY INDUSTRY STANDARDS. WHERE DELEGATION OF DESIGN IS SPECIFIED, THE MANUFACTURER SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A LICENSED STRUCTURAL ENGINEER IN THE STATE HAVING JURISDICTION. IS LOCATED. THE LICENSED STRUCTURAL ENGINEER SHALL DESIGN AND DETAIL COMPONENTS TO MEET GOVERNING BUILDING CODES, STANDARDS AND THE SPECIFIED PERFORMANCE CRITERIA. SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED FOR RECORD. THE DESIGN DELEGATED STRUCTURAL ENGINEER SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN OF THE COMPONENT.

DEMOLITION
THE CONTRACTOR SHALL CAREFULLY REMOVE ONLY THE EXISTING ITEMS IDENTIFIED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. IN NO CASE SHALL THE REMOVAL OF ANY PORTION OF THE EXISTING STRUCTURE BE PERFORMED IN SUCH A WAY AS TO AFFECT THE STRUCTURAL INTEGRITY OF THE REMAINING PORTION OF THE BUILDING. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY STRUCTURAL ITEMS WHICH NEED TO BE DEMOLISHED BUT ARE NOT CLEARLY IDENTIFIED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF THE DEMOLITION TO THE EXISTING STRUCTURE TO ONLY THAT REQUIRED TO INSTALL THE NEW BUILDING MODIFICATIONS.

STRUCTURAL TESTS AND INSPECTIONS (IBC 2012)

ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY IN ACCORDANCE WITH CHAPTER 17 OF IBC 2006. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF UNCORRECTED, THE SPECIAL INSPECTOR SHALL NOTIFY THE BUILDING OFFICIAL AND THE ENGINEER OR ARCHITECT OF RECORD.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.

JOB SITE VISITS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT CONSTITUTE AN OFFICIAL SPECIAL INSPECTION.

THE FOLLOWING LIST OF MATERIALS AND WORK REQUIRE SPECIAL INSPECTIONS

| | | VERIFICATION AND INSPECTION | YES | |
|---|---|---|---|---|
| | | | CONTINUOUS | PERIODIC |
| | | STEEL CONSTRUCTION (IBC - 1705.3) | | |
| | A | Material verification of high strength bolts, nuts and washers. | | X |
| | B | Inspection of high strength bolting | | |
| | | Bearing Type | | X |
| | | Slip critical type | NA | NA |
| | C | Inspection of welding | | |
| | | Complete and partial pen welds | X | |
| | | Multi pass fillet welds | NA | |
| | | Single pass fillet welds >5/16" | NA | |
| | | Single pass fillet welds <5/16" | | X |
| | | Floor and roof deck | | X |
| | D | Inspection of steel frame details | | X |
| | | | | |
| | | CONCRETE CONSTRUCTION (IBC 1705.4) | | |
| | A | Inspection of reinforcing steel | | X |
| | B | Inspection of bolts installed in concrete | X | |
| | C | Verify use of required mix design | | X |
| | D | Sampling fresh concrete and performing slump, air content and determining the temperature of fresh concrete at time of making specimens for strength tests. | X | |
| | E | Inspection of concrete placement | X | |
| | F | Inspection for maintenance of specified curing techniques | | X |
| | | | | |
| | | | | |
| | | | | |
| | | SOILS (IBC - 1705.70 | | |
| | A | Verify site has been prepared in accordance with approved soils report. | | X |
| | B | Fill placement - verify material, maximum lift thickness and compaction of fill are in accordance with the soils report. | | X |
| | C | Verify in place dry density of fill complies with soils report. | | X |
| | D | Confirm allowable soil bearing pressure complies with soils report. | X | |
| | | | | |

| | |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |
| Revisions: | Date |

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VA CONTRACT NO. VA69D-13-C-0324

| | |
|---|---|
| Drawing Title | STRUCTURAL GENERAL NOTES |
| Approved: Project Director | |
| Project Title | RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM |
| Location | HINES, ILLINOIS |
| Date | 07/01/2015 |
| Checked | MJW |
| Drawn | PCW |
| Project Number | 578-15-026 |
| Building Number | 200 |
| Drawing Number | S-001 |

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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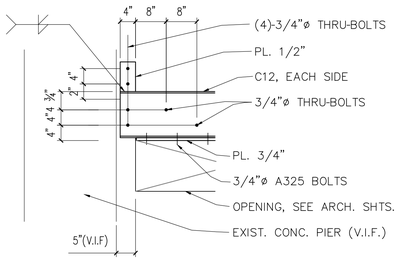
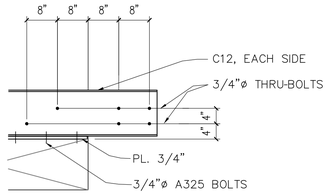
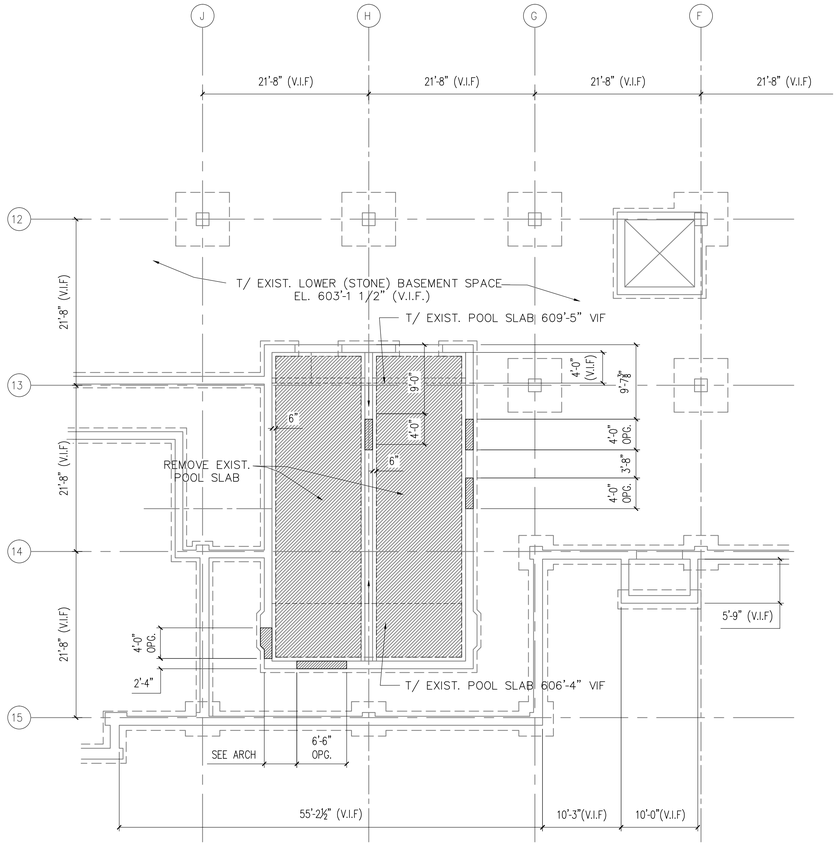



1 SECTION
3/4"=1'-0"




2 SECTION
3/4"=1'-0"

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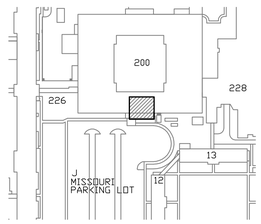
A PARTIAL FOUNDATION PLAN
1/8"=1'-0"

## KEYNOTES

1. PROVIDE 6" SLAB-ON-GRADE REINFORCED WITH 6x6-W2.9XW2.9 WELDED WIRE FABRIC. PLACE SLAB ON VAPOR BARRIER OVER 6" OF COMPACTED GRANULAR FILL. SLOPE SLAB TO FLOOR DRAINS.SEE ARCHITECTURAL AND PLUMBING SHTS.
2. PROVIDE 18" SLAB ON GRADE REINFORCED WITH #4@12 EACH WAY, TOP & BOTTOM. PLACE SLAB ON VAPOR BARRIER OVER 48" OF COMPACTED GRANULAR FILL.
3. PROVIDE 12" SLAB ON GRADE REINFORCED WITH #4@12 EACH WAY, TOP & BOTTOM. PLACE SLAB ON VAPOR BARRIER OVER 6" OF COMPACTED GRANULAR FILL.
4. PROVIDE #5 @ 40" O.C. 8" CMU REINFORCING, FULL HEIGHT OF WALL IN GROUTED CELLS. PROVIDE MATCHING DOWELS IN FOUNDATION WALLS. PROVIDE 2-#5 ADDITIONAL 8" CMU REINFORCING, FULL HEIGHT OF WALL IN GROUTED CELLS IN CORNERS, ALL EDGES, OF OPENINGS, AND EACH SIDE OF CONTROL JOINTS. PROVIDE MATCHING DOWELS FROM FOUNDATION.
5. PROVIDE 5" SLAB-ON-GRADE REINFORCED WITH 6x6-W2.9xW2.9WELDED WIRE FABRIC. PLACE SLAB OVER 6" OF COMPACTED GRANULAR FILL. SLOPE SLAB TO DRAIN AWAY FROM BUILDING.SEE ARCHITECTURAL FOR SLAB SLOPE REQUIREMENTS.

## STRUCTURAL NOTES

- INDICATES TOP OF FOUNDATION WALL TO BE DEPRESSED, SEE WALL SECTIONS

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KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
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| 85% DD SUBMITTAL | 2/25/2015 |

ENGINEERS + CONSULTANTS:

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Drawing Title: PARTIAL LOWER (STONE) BASEMENT FOUNDATION PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MJW | Drawn: PCW

Project Number: 578-15-026

Building Number: 200

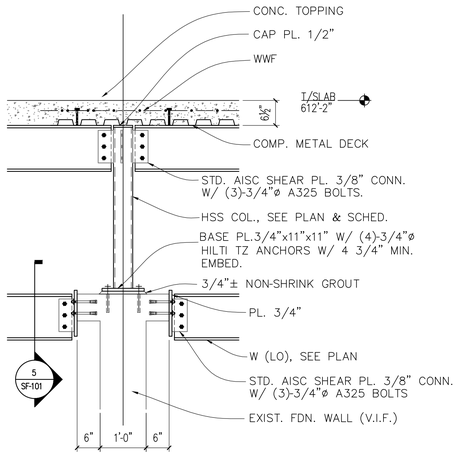
Drawing Number: SB-101

Office of Construction and Facilities Management

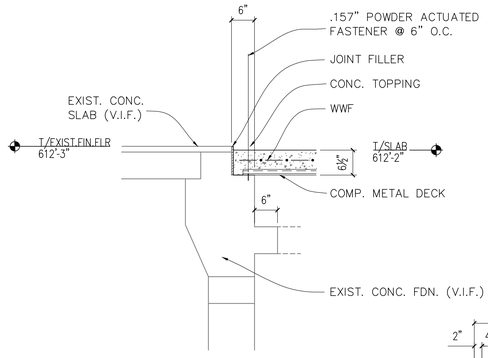
Department of Veterans Affairs

VA FORM 08-6231

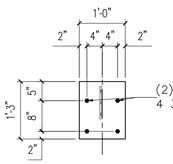
K:\CCG_PROJECTS\2013\3126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-SB-101.dwg 8-27-15 11:09:59 AM crollins



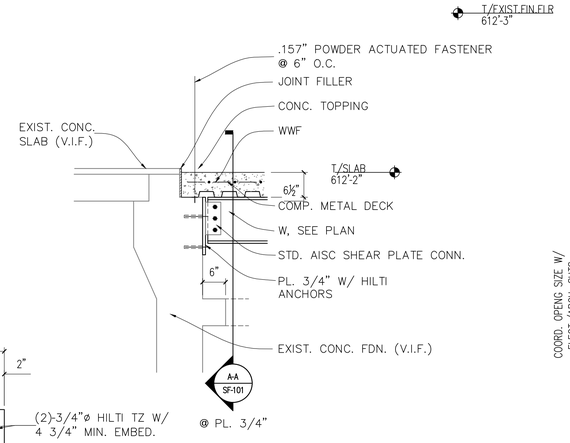

1 SECTION
3/4"=1'-0"



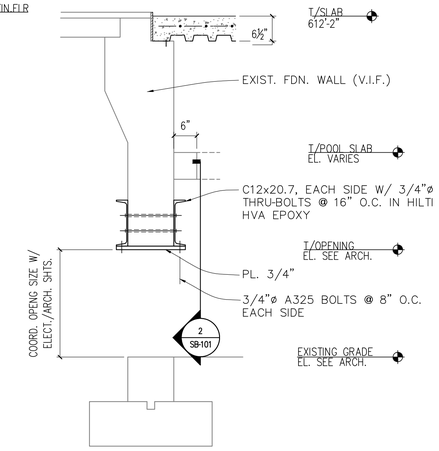

2 SECTION
3/4"=1'-0"




SECTION A-A




3 SECTION
3/4"=1'-0"



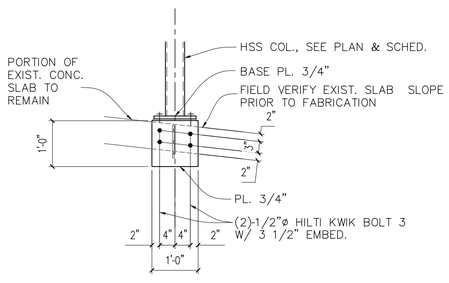

4 SECTION
3/4"=1'-0"

## STRUCTURAL GENERAL NOTES

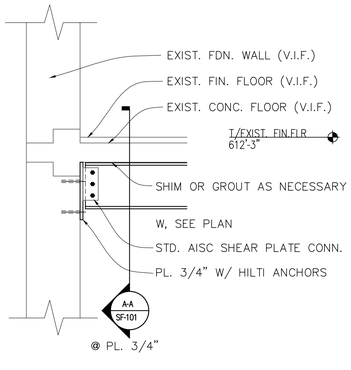
1. T/ EXISTING FINISH FLOOR EL. 612'-3" (V.I.F.)
   T/ EXISTING STRUCTURAL SLAB EL. 612'-1 1/2" (V.I.F.) T/ NEW COMPOSITE SLAB EL. 612'-0"
   T/ EXISTING LEDGE EL. 611'-7 1/2"
2. (x)- INDICATES MINIMUM QUANTITY OF 3/4"ø x 3 1/2" HEADED WELDED STUDS EVENLY SPACED ALONG BEAM. PROVIDE ADDITIONAL STUDS AS NECESSARY AT LOCATIONS WHERE SPACING EXCEEDS 32" O.C..

## KEY NOTES

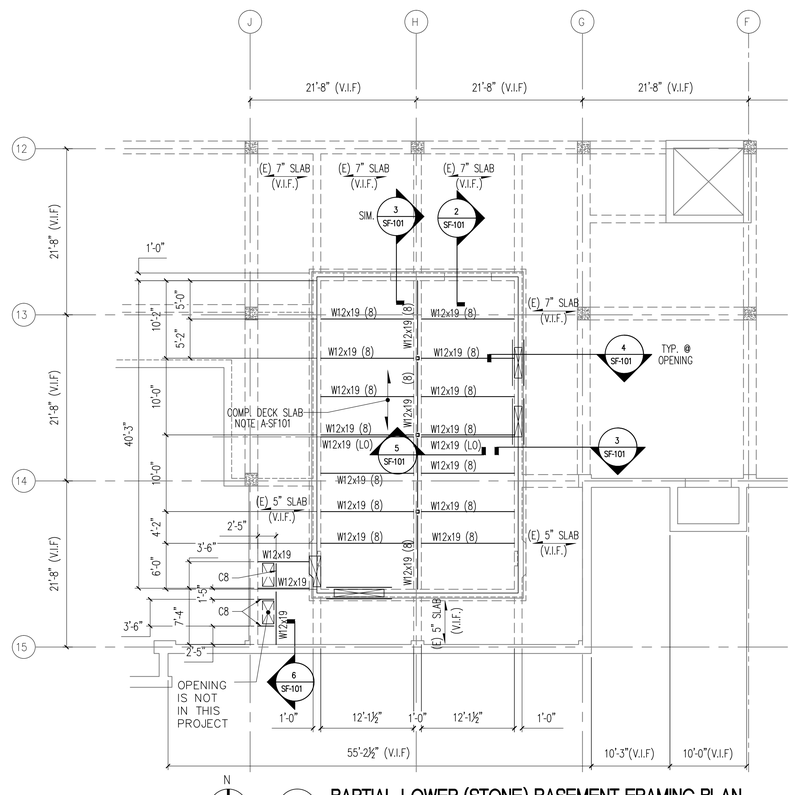
1. PROVIDE 4 1/2" NORMAL WEIGHT CONCRETE PLACED ON ON 2" - 20 GAUGE GALV. VLI COMPOSITE METAL DECK. REINFORCE SLAB WITH 6x6 - W2.1xW2.1 WELDED WIRE FABRIC PLACE PER STANDARD DETAILS. SHORE DECK PER MFR.S REQ'TS.
2. CAREFULLY SAWCUT NEW OPENINGS IN EXISTING CONCRETE SLAB AFTER NEW STEEL IS INSTALLED.




5 SECTION
3/4"=1'-0"




6 SECTION
3/4"=1'-0"

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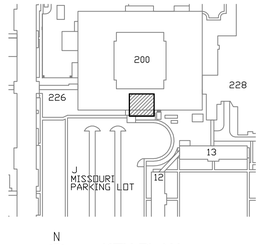
A PARTIAL LOWER (STONE) BASEMENT FRAMING PLAN
1/8"=1'-0"

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KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

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Drawing Title: PARTIAL LOWER (STONE) BASEMENT FRAMING PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MJW | Drawn: PCW

Project Number: 578-15-026

Building Number: 200

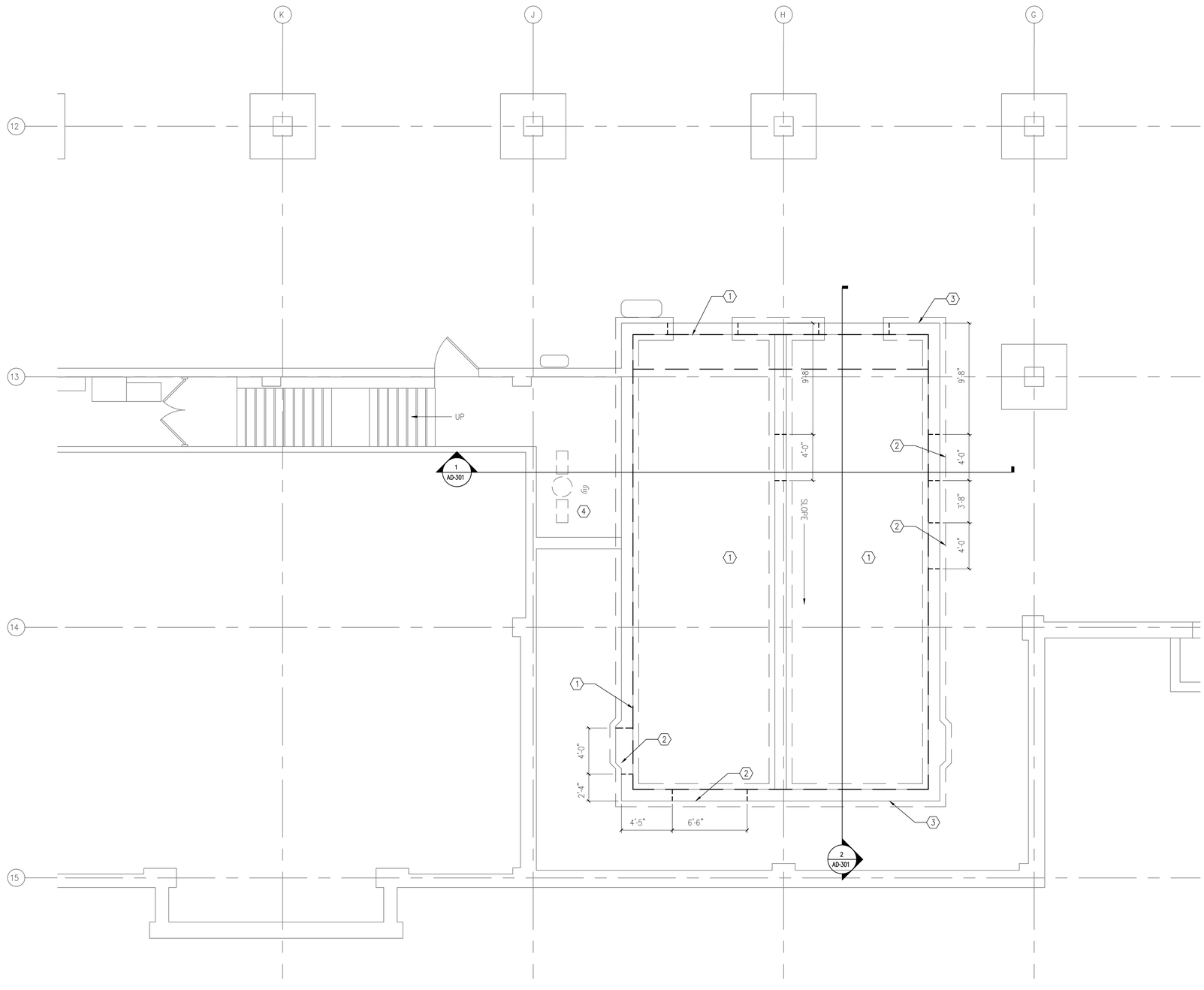
Drawing Number: SF-101

Office of Construction and Facilities Management

Department of Veterans Affairs

K:\CCG_PROJECTS\2013\13126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-SF-101.dwg 8-27-15 11:10:05 AM crollins

VA FORM 08-6231




N

A LOWER (STONE) BASEMENT-DEMOLITION WORK
1/4"=1'-0"

## GENERAL NOTES

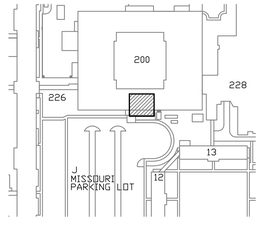
A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND CIVIL ITEMS THAT FACILITATES NEW CONSTRUCTION.
B. REFER TO FINISH SCHEDULE A-601 FOR ANY ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE ANY DEMOLITION/REMOVAL WORKS INDICATED ON DEMOLITION PLANS.
C. VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE ARCHITECT.
D. REFER TO MECHANICAL, PLUMBING/FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.
E. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILINGS SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE FOR PATCHING OR REPAIR.
F. ALL WORK SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNERS REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST INSPECTION PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE FOR INSPECTION.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY TEMPORARY SHORING AND BRACING REQUIRED DURING CONSTRUCTION. DESIGN OF TEMPORARY SHORING AND BRACING SHALL BE BY A COMPETENT STRUCTURAL ENGINEER.
H. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY WALL, FLOOR OR ROOF SYSTEM THAT IS TO REMAIN. THE OPENING SHALL BE INFILLED WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION AND RESTORED TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING. NEW PENETRATIONS THRU EXISTING WALLS, FLOORS OR ROOFS SHALL BE FIRE STOPPED TO MATCH EXISTING FIRE RATING.
I. DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, ETC. IN CEILINGS AND SOFFITS.
J. ALL INTERFERENCES OF STRUCTURAL WALLS, BEAMS, JOIST, COLUMNS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE/CORING SHALL BE REVIEWED BY THE ARCHITECT.
K. CAREFULLY REMOVE ITEMS MARKED-UP BY THE OWNER AS OWNER'S SALVAGE. TRANSPORT ITEMS TO OWNER'S DESIGNATED STORAGE AREA(S).
L. THE LOCATION OF EXISTING POOL, FOUNDATION, FOOTINGS, AND UTILITIES, SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS AND OWNER'S RECORDS. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE COR TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

## (X) KEY NOTES

1. REMOVE EXISTING CONCRETE OF THE BOTTOM OF THE POOL. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
2. CUT OPENING FOR NEW ELECTRICAL CONDUITS. REFER TO BUILDING SECTIONS SHEET A-301.
3. EXISTING POOL FOUNDATION WALL.
4. EXISTING POOL EQUIPMENTS TO BE REMOVED. REFER TO MECHANICAL AND ELECTRICAL DRAWING FOR MORE INFO.

## LEGEND

REMOVE
EXISTING DOOR
EXISTING PARTITION

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KEY PLAN
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VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: LOWER (STONE) BASEMENT-DEMOLITION WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

Drawing Number: AD-100

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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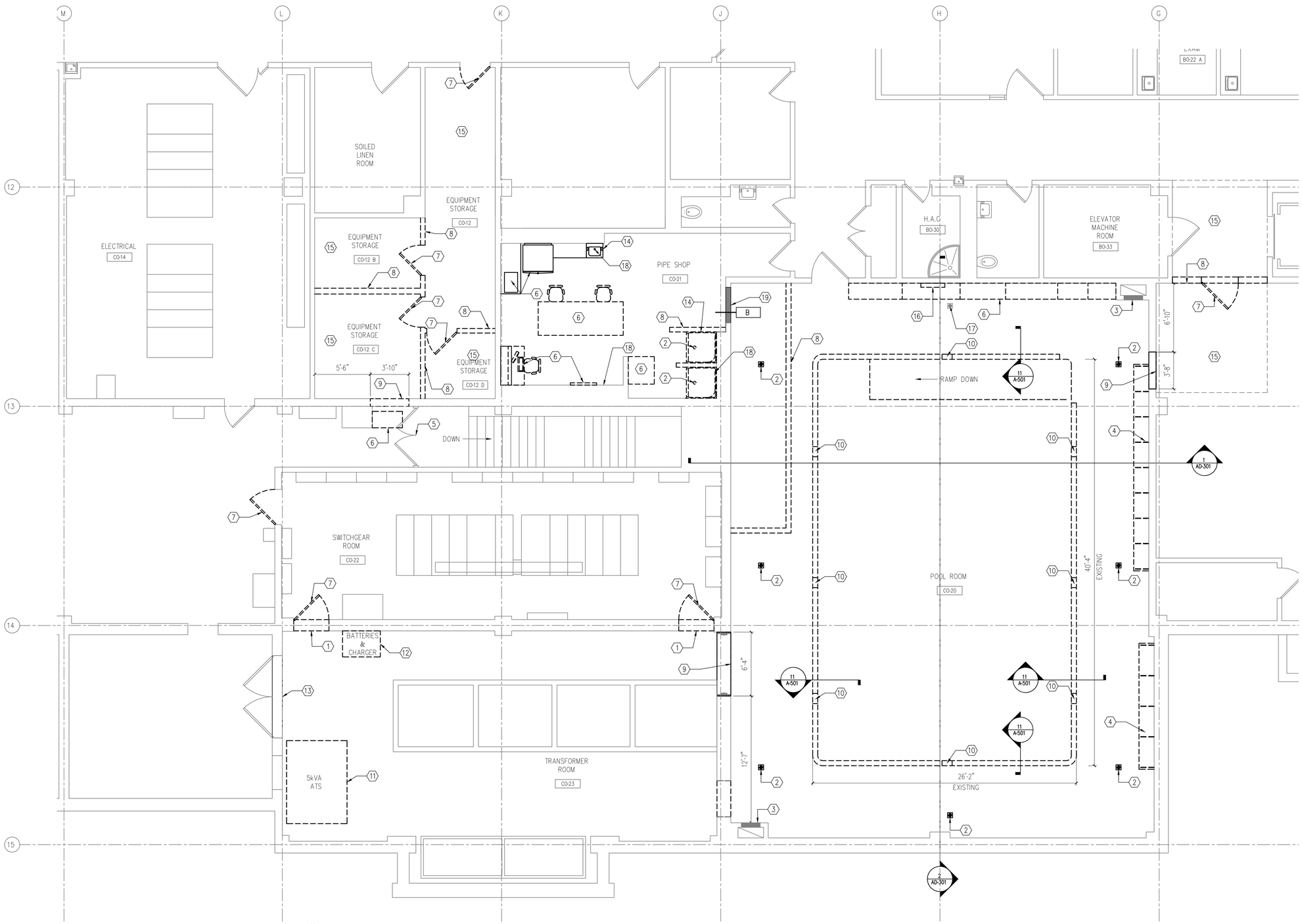



N

A EXISTING POOL ROOM - DEMOLITION WORK
1/4"=1'-0"

## DEMOLITION GENERAL NOTES

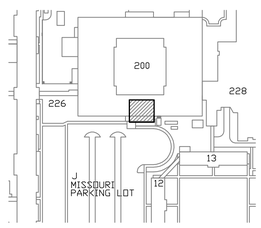
A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND CIVIL ITEMS THAT FACILITATES NEW CONSTRUCTION.
B. REFER TO A-601 FOR DOOR SCHEDULE AND DETAILS.
C. VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE ARCHITECT.
D. REFER TO MECHANICAL, PLUMBING/FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.
E. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILINGS SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE FOR PATCHING OR REPAIR.
F. ALL WORK SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNERS REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST INSPECTION PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE FOR INSPECTION.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY TEMPORARY SHORING AND BRACING REQUIRED DURING CONSTRUCTION.
H. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY WALL, FLOOR OR ROOF SYSTEM THAT IS TO REMAIN. THE OPENING SHALL BE INFILLED WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION AND RESTORED TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING. NEW PENETRATIONS THRU EXISTING WALLS, FLOORS OR ROOFS SHALL BE FIRE STOPPED TO MATCH EXISTING FIRE RATING.
I. DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, ETC. IN CEILINGS AND SOFFITS.
J. ALL INTERFERENCES OF STRUCTURAL WALLS, BEAMS, JOIST, COLUMNS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE/CORING SHALL BE REVIEWED BY THE ARCHITECT.
K. REMOVE ALL DEBRIS FROM AREA.
L. THE ITEMS THAT REMAINS PROPERTY OF GOVERNMENT SHALL BE REMOVED FROM PRESENT LOCATION IN SUCH A MANNER AS TO PREVENT DAMAGE. STORE ITEM AS DIRECTED BY OWNER

## (X) KEY NOTES

1. REMOVE EXISTING CURB SAND CONCRETE DOWN TO MATCH EXISTING FLOOR
2. EXISTING FLOOR DRAIN REFER TO PLUMBING DRAWING FOR CUTTING AND CAPPING THE DRAIN. REFER TO DETAIL 6/A-501
3. REMOVE EXISTING LOUVER AND FILL WALL WITH DRYWALL AND PROVIDE 4X4 CERAMIC TILES TO MATCH.
4. REMOVE EXISTING BENCHES. PATCH WALL TO MATCH
5. EXISTING DOUBLE DOOR.
6. REMOVE AND RELOCATE CABINET AND FURNITURE AS PER OWNERS REQUEST.
7. EXISTING DOOR TO BE REMOVED.
8. EXISTING WALL TO BE REMOVED IN ITS ENTIRELY TO FINISH FLOOR THIS INCLUDES WALL SWITCHES OUTLETS, ETC. PATCH BUTTING WALLS AND FLOOR AND CEILING AS REQ.
9. SAW CUT NEW OPENING IN EXISTING PARTITION WALL FOR NEW DOOR. TRIM OPENING TO MATCH EXISTING PAINT TO MATCH ADJACENT WALL.
10. EXISTING POOL GUTTER DRAIN. REFER TO PLUMBING DRAWINGS FOR DETAIL.
11. REMOVE EXISTING 5kVA ATS
12. REMOVE EXISTING BATTERIES AND CHARGERS
13. EXISTING CURB AND DOORS TO REMAIN. INSULATE DOOR AND PAINT DOOR TO MATCH EXISTING. REFER TO DOOR SCHEDULE. A-601
14. REMOVE EXISTING SHOWER STALLS AND SINK IN ITS ENTIRELY REFER TO PLUMBING DRAWINGS.
15. REMOVE EXISTING FLOORING. CLEAN AREA TO RECEIVE NEW FLOORING.
16. REMOVE EXISTING ELECTRIC WATER COOLER IN ITS ENTIRETY.
17. EXISTING FLOOR DRAIN TO REMAIN.
18. REMOVE ALL EXISTING PIPES AND PATCH WALL TO MATCH. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION.
19. PROVIDE TEMPORARY WALL. REFER TO DETAIL # 2 A-501

## LEGEND

- REMOVE
- EXISTING PARTITION
- EXISTING DOOR
- REMOVE DOOR




N

KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
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Drawing Title: EXISTING POOL ROOM-DEMOLITION WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

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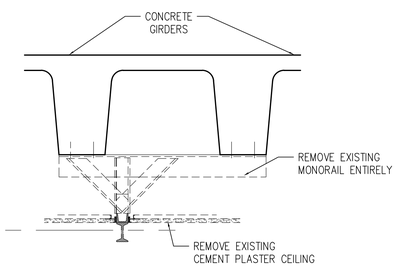
A DEMOLITION REFLECTED CEILING PLAN
1/4"=1'-0"




1 MONORAIL DETAIL
3/4"=1'-0"

## DEMOLITION GENERAL NOTES

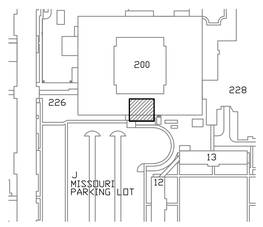
A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND CIVIL ITEMS THAT FACILITATES NEW CONSTRUCTION.
B. REFER TO FINISH SCHEDULE FOR ANY ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE ANY DEMOLITION/REMOVAL WORKS INDICATED ON DEMOLITION PLANS.
C. VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE ARCHITECT.
D. REFER TO MECHANICAL, PLUMBING/FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.
E. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILINGS SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE FOR PATCHING OR REPAIR.
F. ALL WORK SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNERS REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST INSPECTION PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE FOR INSPECTION.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY TEMPORARY SHORING AND BRACING REQUIRED DURING CONSTRUCTION. DESIGN OF TEMPORARY SHORING AND BRACING SHALL BE BY A COMPETENT STRUCTURAL ENGINEER.
H. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY WALL, FLOOR OR ROOF SYSTEM THAT IS TO REMAIN. THE OPENING SHALL BE INFILLED WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION AND RESTORED TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING. NEW PENETRATIONS THRU EXISTING WALLS, FLOORS OR ROOFS SHALL BE FIRE STOPPED TO MATCH EXISTING FIRE RATING.
I. DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, ETC. IN CEILINGS AND SOFFITS.
J. ALL DIMENSION ARE TO FACE OF FINISHED PARTITIONS OR SHALL BE FIELD VERIFIED WHERE APPLICABLE BY GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION.
K. CAREFULLY REMOVE ITEMS MARKED-UP BY THE OWNER AS OWNER'S SALVAGE. TRANSPORT ITEMS TO OWNER'S DESIGNATED STORAGE AREA(S).
L. REFER TO SHEET A-501 FOR TYPICAL PARTITION TYPES.
M. REFER TO SHEET A-601 FOR DOOR AND INTERIOR ROOM FINISHES SCHEDULE. NOTES AND DETAILS.

## (X) KEY NOTES

1. REMOVE EXISTING SUSPENDED CEILING
2. REMOVE EXISTING MONORAIL REFER TO DETAIL #1/AD131 ON THIS SHEET. RESTORE AND DELIVER TO HINES, VA MACHINE SHOP BUILDING 8.
3. REMOVE EXISTING DRYWALL CEILING
4. FIRE PROTECTION CONTRACTOR TO CUT AND REMOVE THE EXISTING SPRINKLER PIPE TO THE ADJACENT ROOM. PROVIDE NEW PIPE AND SPRINKLER HEAD AS PER DRAWING A-131. CONTACT TO VERIFY LOCATION.
5. REMOVE EXISTING SUSPENDED CEILING AND LIGHT FIXTURES IN THIS AREA.

## LEGEND

- REMOVE 2X4 LIGHT FIXTURE
- REMOVE 1X4 LIGHT FIXTURE
- REMOVE 2X2 LIGHT FIXTURE
- REMOVE RETURN GRILL
- E EXISTING SPRINKLER HEAD TO REMAIN
- R REMOVE SPRINKLER HEAD
- EXISTING RETURN GRILL
- REMOVE RETURN GRILL
- REMOVE EXISTING DIFFUSER

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Drawing Title: DEMOLITION REFLECTED CEILING PLAN AND DETAIL
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
Date: 07/01/2015
Checked: MP
Drawn: AKP
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Building Number: 200
Drawing Number: AD-131

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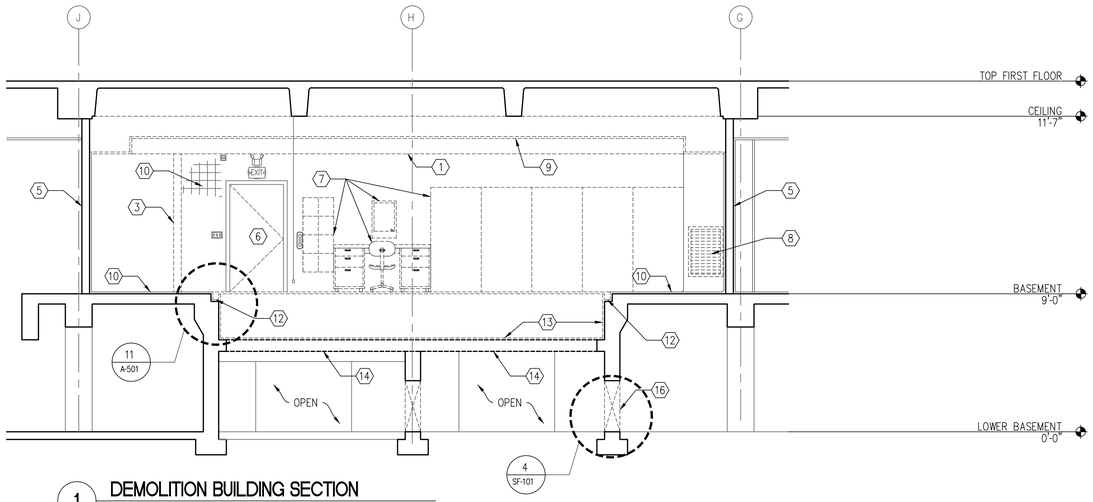
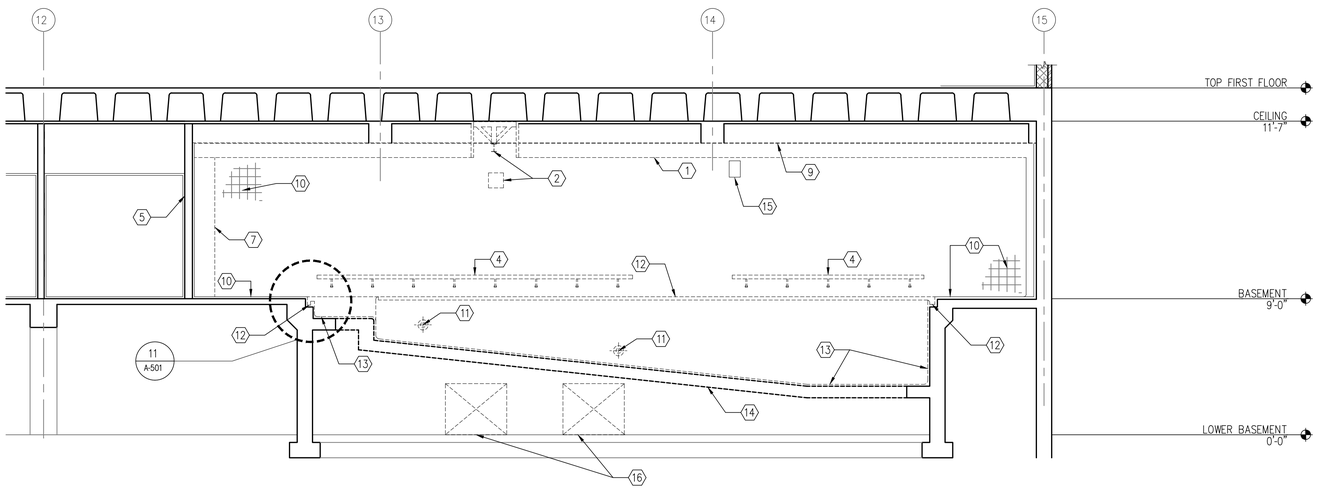
Department of Veterans Affairs

VA FORM 08-6231

K:\CCC_PROJECTS\2013\13-126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-AD131.dwg 8-27-15 11:10:20 AM crollins




1 DEMOLITION BUILDING SECTION
1/4"=1'-0"



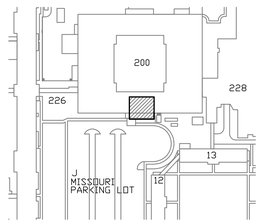

2 DEMOLITION BUILDING SECTION
1/4"=1'-0"

## DEMOLITION GENERAL NOTES

A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND CIVIL ITEMS THAT FACILITATES NEW CONSTRUCTION.
B. REFER TO FINISH SCHEDULE A-601 FOR ANY ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE ANY DEMOLITION/REMOVAL WORKS INDICATED ON DEMOLITION PLANS.
C. VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE ARCHITECT.
D. REFER TO MECHANICAL, PLUMBING/FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.
E. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILINGS SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE FOR PATCHING OR REPAIR.
F. ALL WORK SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNERS REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST INSPECTION PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE FOR INSPECTION.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY TEMPORARY SHORING AND BRACING REQUIRED DURING CONSTRUCTION. DESIGN OF TEMPORARY SHORING AND BRACING SHALL BE BY A COMPETENT STRUCTURAL ENGINEER.
H. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY WALL, FLOOR OR ROOF SYSTEM THAT IS TO REMAIN. THE OPENING SHALL BE INFILLED WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION AND RESTORED TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING. NEW PENETRATIONS THRU EXISTING WALLS, FLOORS OR ROOFS SHALL BE FIRE STOPPED TO MATCH EXISTING FIRE RATING.
I. DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, ETC. IN CEILINGS AND SOFFITS.
J. ALL INTERFERENCES OF STRUCTURAL WALLS, BEAMS, JOIST, COLUMNS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE/CORING SHALL BE REVIEWED BY THE ARCHITECT.
K. CAREFULLY REMOVE ITEMS MARKED-UP BY THE OWNER AS OWNER'S SALVAGE. TRANSPORT ITEMS TO OWNER'S DESIGNATED STORAGE AREA(S).

## (X) KEY NOTES

1. EXISTING SUSPENDED CEILING TO BE REMOVED.
2. EXISTING MONORAIL TO BE REMOVED ENTIRELY. PATCH TO MATCH. REFER TO DETAIL 1/AD-131
3. EXISTING WALL TO BE REMOVED.
4. REMOVE EXISTING BENCHES. PATCH WALLS TO MATCH EXISTING.
5. EXISTING WALL TO REMAIN
6. EXISTING DOOR TO REMAIN. PAINT TO MATCH.
7. REMOVE EXISTING FURNITURE AND WATER COOLER. RELOCATE AS PER OWNERS REQUEST.
8. REMOVE EXISTING LOUVER AND FILL WALL WITH DRYWALL. PROVIDE NEW CERAMIC TILE TO MATCH .REFER TO MECH. FOR MORE DETAIL.
9. EXISTING CEMENT PLASTER DROP CEILING TO BE REMOVED.
10. EXISTING CERAMIC TILE TO REMAIN.
11. POOL INLET CAPPED. REFER TO PLUMBING DRAWING FOR INFORMATION.
12. REMOVE EXISTING CERAMIC TILE NOSING AND GUTTER AROUND THE PERIMETER OF THE POOL.
13. REMOVE EXISTING CERAMIC TILE.
14. REMOVE BOTTOM OF THE POOL. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
15. EXISTING SHUT-OFF SWITCH.
16. CUT OPENING FOR ELECTRICAL CONDUITS.




N
KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

ENGINEERS + CONSULTANTS:
JOHNSONWILBUR ADAMS, INC.
STRUCTURAL ENGINEERING
175 N. Washington St.
Wheaton, Illinois 60187

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Drawing Title: DEMOLITION BUILDING SECTIONS AND NOTES
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
Date: 07/01/2015 | Checked: MP | Drawn: AKP
Project Number: 578-15-026
Building Number: 200
Drawing Number: AD-301
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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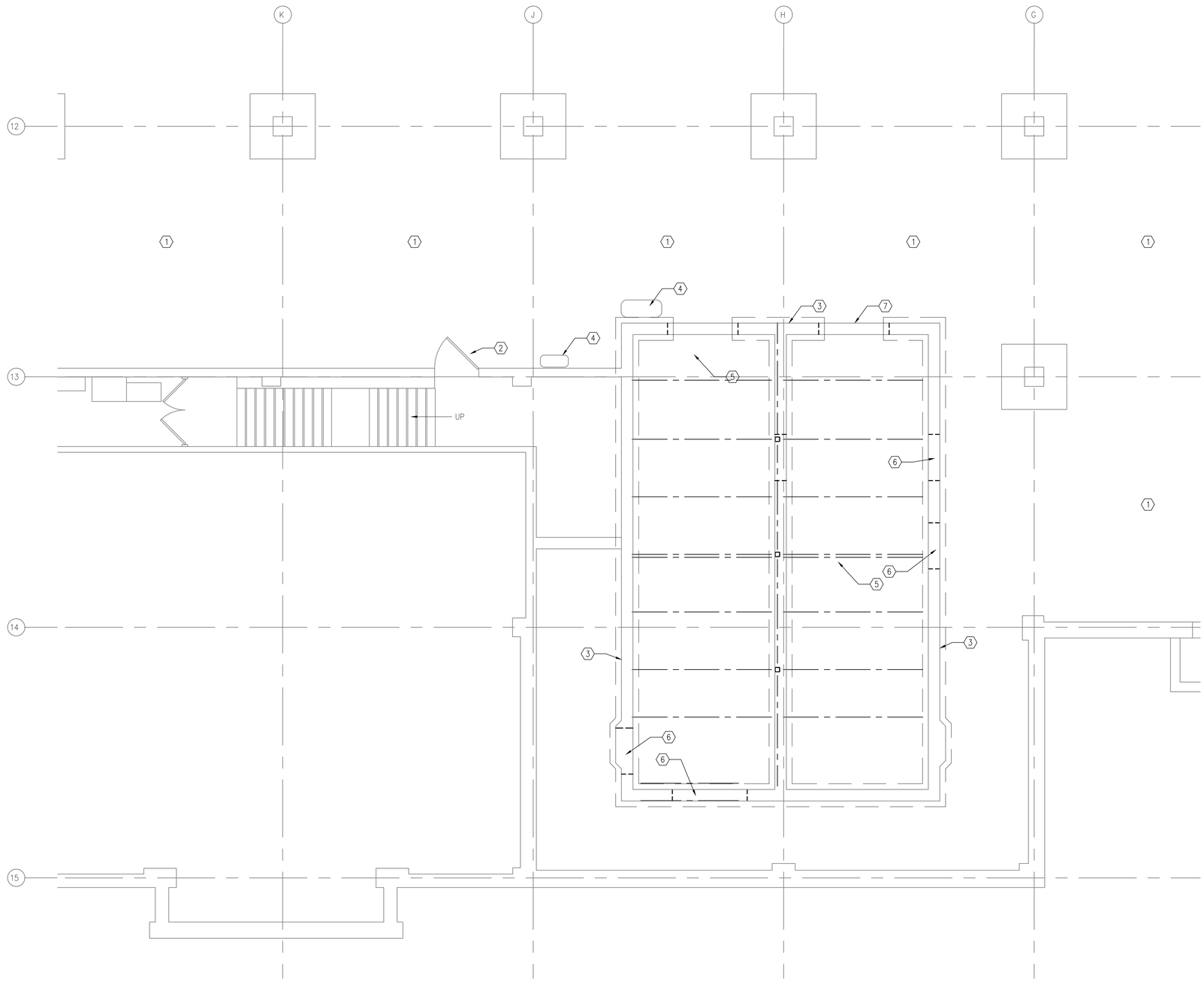



## GENERAL NOTES

A. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE AND ORDERLY WORK SITE AT ALL TIMES.
B. THE CONTRACTOR IS RESPONSIBLE FOR THE LOADING/UNLOADING AND HAULING OF ALL MATERIAL TO AND FROM THE CONSTRUCTION SITE.
C. ALL APPLICABLE OSHA REQUIREMENTS, LOCAL BUILDING CODES AND THOSE OF ANY OTHER APPLICABLE REGULATORY AGENCY SHALL BE STRICTLY ADHERED TO.
D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
E. ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND STRUCTURAL, MECHANICAL, ELECTRICAL, PIPING, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DIMENSIONS AND OTHER DETAILS NOT SHOWN ON ARCHITECTURAL DRAWINGS.
F. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORT AND STABLE AFTER THE BUILDING IS COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCING TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THESE INCLUDE THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING GUYS OR TIE DOWNS.
G. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARING SHOP DRAWINGS OR ANY WORK.
H. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO OWNER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO DETAILS AND GIVEN DIMENSIONS IN THE CONTRACT DOCUMENTS.
I. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

## (X) KEY NOTES

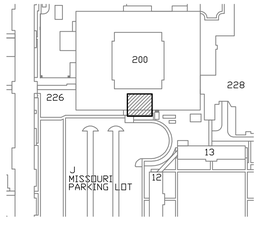
1. EXISTING GRAVEL AREA.
2. EXISTING DOOR TO REMAIN.
3. POOL FOUNDATION WALL TO REMAIN
4. EXISTING EQUIPMENT TO BE REMAIN.
5. STRUCTURAL BEAM FOR THE POOL INFILL. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
6. NEW OPENING FOR ELECTRICAL CONDUITS.
7. EXISTING OPENING

## LEGEND

EXISTING PARTITION
EXISTING DOOR

N

(A) LOWER (STONE) BASEMENT - EXISTING PLAN
1/4"=1'-0"

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KEY PLAN
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| Revisions | Date |
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Drawing Title: LOWER (STONE) BASEMENT-EXISTING PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

| Date | Checked | Drawn |
|---|---|---|
| 07/01/2015 | MP | AKP |

Project Number: 578-15-026

Building Number: 200

Drawing Number: A-100

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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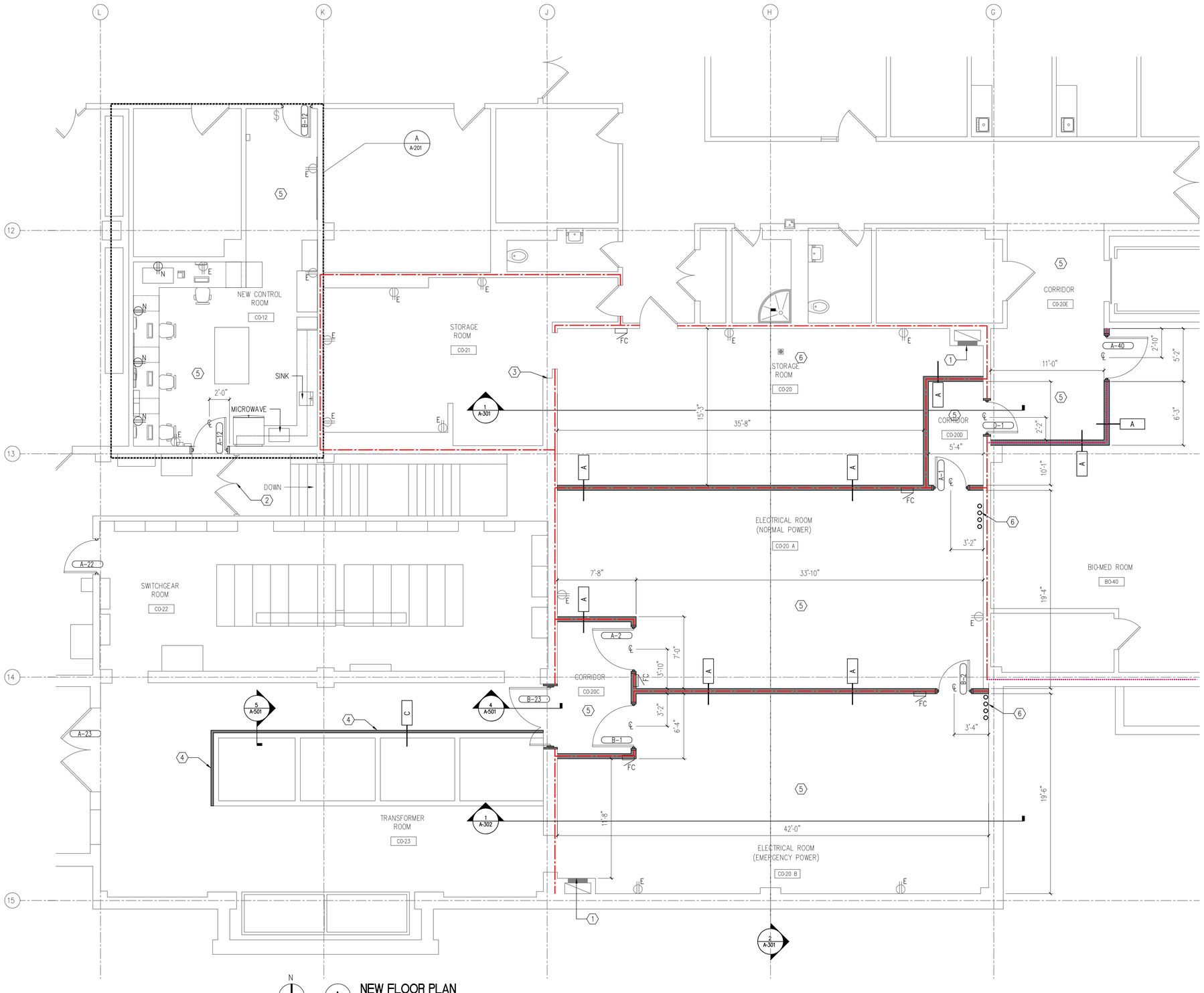



N

A NEW FLOOR PLAN
1/4"=1'-0"

## GENERAL NOTES

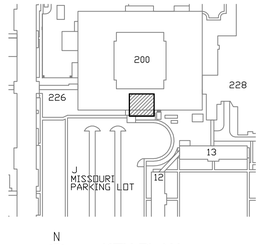
A. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE AND ORDERLY WORK SITE AT ALL TIMES.
B. THE CONTRACTOR IS RESPONSIBLE FOR THE LOADING/UNLOADING AND HAULING OF ALL MATERIAL TO AND FROM THE CONSTRUCTION SITE.
C. ALL APPLICABLE OSHA REQUIREMENTS, LOCAL BUILDING CODES AND THOSE OF ANY OTHER APPLICABLE REGULATORY AGENCY SHALL BE STRICTLY ADHERED TO.
D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
E. ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND STRUCTURAL, MECHANICAL, ELECTRICAL, PIPING, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DIMENSIONS AND OTHER DETAILS NOT SHOWN ON ARCHITECTURAL DRAWINGS.
F. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORT AND STABLE AFTER THE BUILDING IS COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCING TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THESE INCLUDE THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING GUYS OR TIE DOWNS.
G. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARING SHOP DRAWINGS OR ANY WORK.
H. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO OWNER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO DETAILS AND GIVEN DIMENSIONS IN THE CONTRACT DOCUMENTS.
I. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.
J. ALL DIM. ARE FACE OF FINISHED PARTITIONS AND AND SHALL BE FILED VERIFIED WHERE APPLICABLE BY GENERAL CONTRACTOR. PRIOR TO START OF CONSTRUCTION.
K. REFER TO SHEET A-501 FOR TYPICAL PARTITION TYPES.
L. REFER TO SHEET A-601 FOR DOOR AND ROOM FINISH SCHEDULE DETAILS.
M. REFER TO ELECTRICAL SHEETS E-101 FOR ELECTRICAL PLANS AND FIXTURES.
N. REFER TO MECHANICAL SHEETS M-001 TO M-501 FOR MECHANICAL DRAWINGS AND DETAILS

## (X) KEY NOTES

1. CLOSE VENT. REFER TO MECHANICAL DRAWING MD-101
2. EXISTING DOUBLE DOOR.
3. FINISH WALL. REFER TO ROOM FINISH SCHEDULE A-601
4. PROVIDE NEW PROTECTION WALL. REFER TO DETAIL #3/A-501.
5. NEW FLOORING REFER TO ROOM FINISH SCHEDULE A-601.
6. MECHANICAL CONTRACTOR TO CORE FLOOR FOR NEW MECHANICAL REFRIGERANT PIPING. VERIFY LOCATION OF EXISTING FLOOR REBAR BEFORE CORING
7. PROVIDE PANIC HARDWARE ON ALL DOORS FROM ELECTRICAL ROOMS TYP.

## LEGEND

| | |
|---|---|
| NEW PARTITION | EXISTING DOOR |
| EXISTING PARTITION | NEW DOOR |
| FIRE EXTINGUISHER CABINET | SMOKE RESISTIVE ENCLOSURE |
| EXISTING OUTLET | 1 HOUR FIRE/SMOKE BARRIER |
| NEW OUTLET | XXXXX 1001 ROOM NAME AND NUMBER |
| XXX DOOR TAG | X PARTITION TAG |

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NTS

VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: NEW FLOOR PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

Drawing Number: A-101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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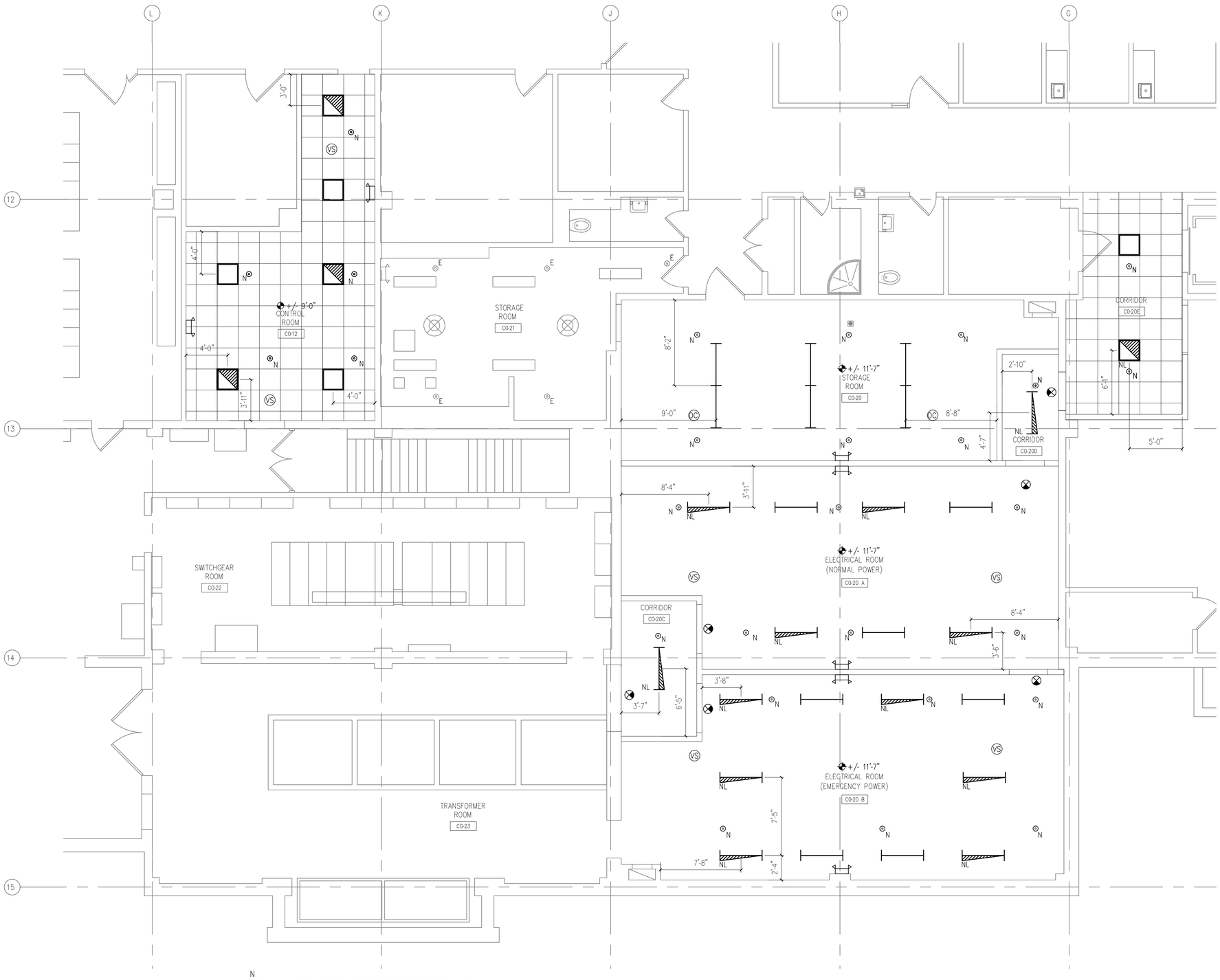



N

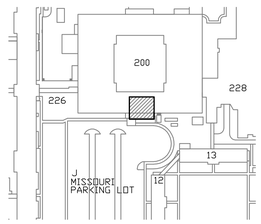
A REFLECTED CEILING PLAN
1/4"=1'-0"

## REFLECTED CEILING NOTES

A. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE AND ORDERLY WORK SITE AT ALL TIMES.
B. THE CONTRACTOR IS RESPONSIBLE FOR THE LOADING/UNLOADING AND HAULING OF ALL MATERIAL TO AND FROM THE CONSTRUCTION SITE.
C. ALL APPLICABLE OSHA REQUIREMENTS, LOCAL BUILDING CODES AND THOSE OF ANY OTHER APPLICABLE REGULATORY AGENCY SHALL BE STRICTLY ADHERED TO.
D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
E. CONTINUOUS METAL STUD RUNNER AND DRYWALL TO UNDERSIDE OF STRUCTURE.
F. 2'X4' SUSPENDED CEILING.
G. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO OWNER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO DETAILS AND GIVEN DIMENSIONS IN THE CONTRACT DOCUMENTS.
H. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

## LEGEND

- 2'X2' REFLECTED CEILING GRID
- 2'X2' LIGHT FIXTURE
- 1'x4' STRIP LIGHT FIXTURE
- 2X4 NIGHT LIGHT
- EXISTING SPRINKLER HEAD
- NEW SPRINKLER HEAD
- EXIT SIGN
- NIGHT STRIP LIGHT FIXTURE
- CEILING HEIGHT DESIGNATOR
- OCCUPANCY SENSOR, DUAL TECHNOLOGY (PIR/ULTRASONIC)
- VACANCY SENSOR
- WALL MOUNTED EMERGENCY BATTERY LIGHT FIXTURE

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Drawing Title: REFLECTED CEILING PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

Drawing Number: A-131

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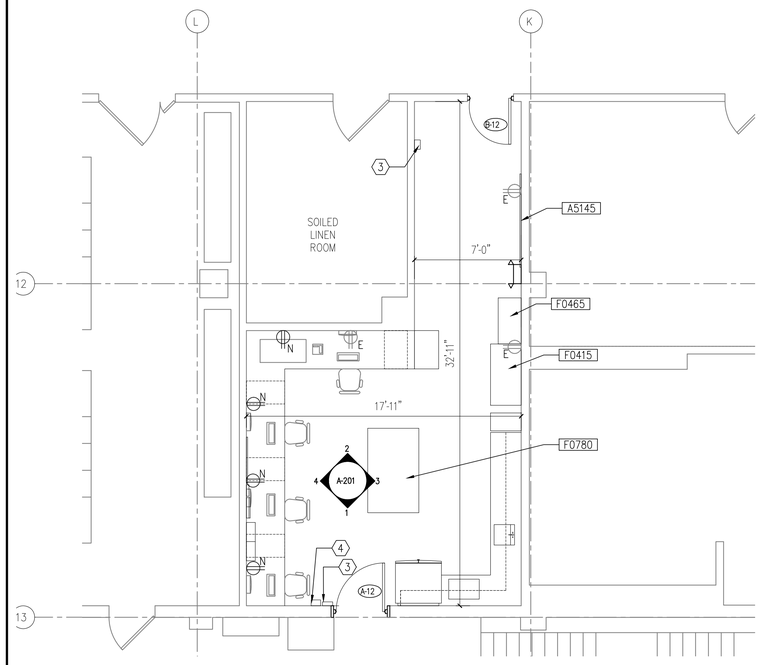
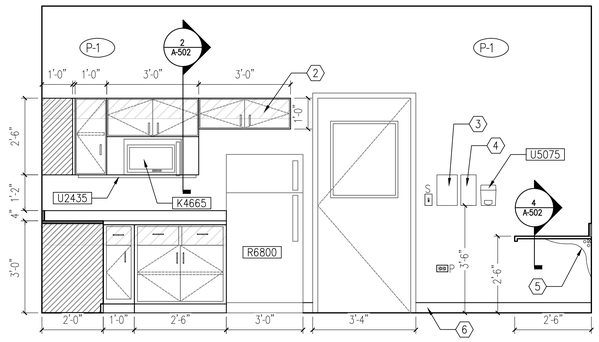
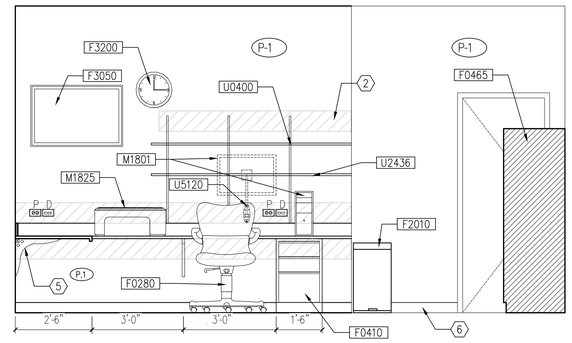


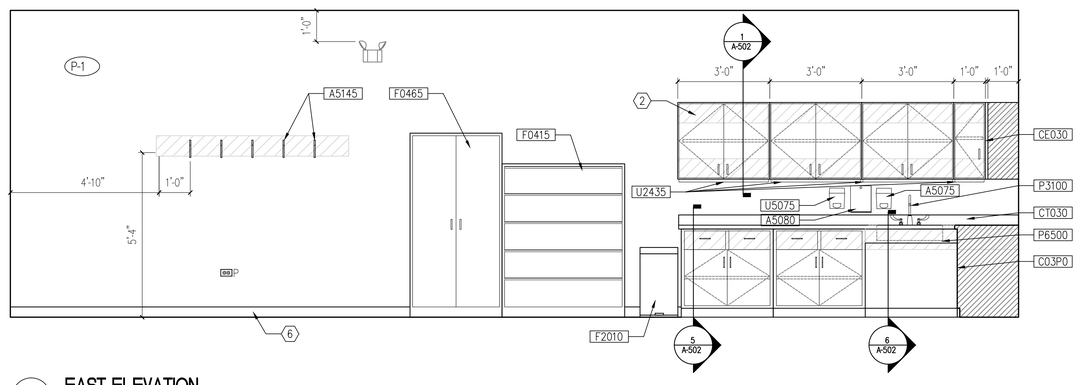

A CONTROL ROOM PLAN
1/4"=1'-0"



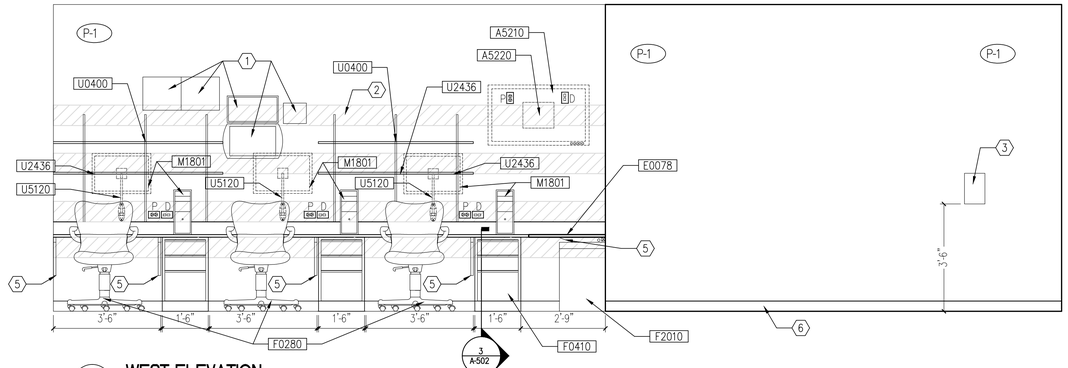

1 SOUTH ELEVATION
1/2"=1'-0"




2 NORTH ELEVATION
1/2"=1'-0"




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




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

## GENERAL NOTES

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H. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

## (X) KEY NOTES

1. ELECTRICAL EQUIPMENTS
2. 8" HIGH PLYWOOD OR STEEL BACKING PLATES BEHIND LOCATION OF WALL MOUNTED EQUIPMENT. REFER TO DETAIL 7&8/A-502
3. KEY BOX
4. DUSK MASK
5. METAL BRACING-SPEED BRACING REFER TO SECTION #4/A-502
6. VINYL BASE.

## INTERIOR ELEVATION LEGEND

P P — ELECTRICAL OUTLETS
D D — DATA & PHONE
XXX — DOOR TAG
S S — LIGHT SWITCHES

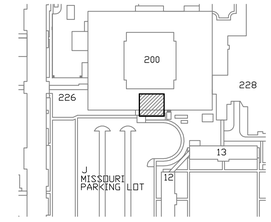
FURNITURE/ACCESSORY TAG
REFER TO FURNITURE AND ACCESSORY SCHEDULE FOR DESCRIPTION AND DESIGNATION OF WHETHER CONTRACTOR OR VA WILL PROVIDE/INSTALL. ALL FURNITURE AND ACCESSORIES ARE NEW UNLESS NOTED OTHERWISE.

(P-#) ACCENT PAINT TAG – REFER TO FINISH LEGEND 1-601

## FURNITURE/ ACCESSORY AND EQUIPMENT SCHEDULE

| Room Name & Number | JSN | JSN Name | Qty | Provided By | Manufacturer | Color/Finish | Comments |
|---|---|---|---|---|---|---|---|
| CONTROL ROOM -C0-20 | E0078 | Workstation top, Wall Mounted 30" H | 1 | CC | | | |
| | A1015 | Telephone, Multiple Line | AR | VV | | | |
| | F0280 | Chair, Swivel, Low Back | 4 | VV | | | |
| | F2010 | Basket, Wastepaper, Round, Metal | 2 | VV | | | |
| | F3200 | Clock, Battery, 12" Diameter | 1 | VV | | | |
| | M1825 | Printer, Computer | 1 | VV | | | |
| | M1801 | Computer, Microprocessing, w/Flat Panel Monitor | 4 | VV | | | |
| | | Receptacle, elect, quadruplex-computer equip. items | AR | CC | | | |
| | F0780 | Table, Work, 60" X 30" | 1 | VV | | | |
| | F3050 | Black Board | 1 | VV | Existing Relocated | | |
| | U5075 | Dispenser, Hand Sanitizer | 2 | VV | | | |
| | A5075 | Dispenser, Soap Disposable | 1 | VV | | | |
| | A1010 | Outlet, Telephone | 4 | CC | | | |
| | F0410 | Metal file, under counter | AR | VV | Herman Miller or Equal | | |
| | CT030 | Counter, solid surface top | 1 | CC | | | |
| | P3100 | Lavatory, Wrist Blades | 1 | CC | | | |
| | P6500 | Sink, SS, Single Compartment | 1 | CC | | | |
| | A5145 | Hook, Garment, Double, Surface Mounted | 6 | CC | Peter Pepper 2012 | ALUM. | Or Equal |
| | K4665 | Oven, Microwave, Consumer | 1 | VV | | | |
| | R6800 | Refrigerator, Freezer | 1 | VV | | | |
| | A5080 | Paper Towel Dispenser | 1 | VV | | | |
| | C03P0 | Cabinet, Base | AR | CC | | | |
| | CE030 | Cabinet, W/H | AR | CC | | | |
| | F0465 | Cabinet, Storage, 2-Doors, 5 Shelves | AR | CC | | | |
| | F0415 | File Cabinet, 24"D X 48" W X 60" | 1 | VV | | | |
| | A5210 | Bracket, Television, Wall Mounted, w/Adjust Arm | 1 | CC | 1019263 / Milestone AV Techonologies FPSM-W-1-AL or Equal | | Or Equal |
| | A5220 | Bracket, Television, Wall Backing | 1 | CC | TVMP-BK / Technical Connections UP-1 | | |
| | U5120 | Wall Mounted Monitor Arm | 4 | CC | Humanscale - M8HW - M8 Direct Hardwall Mount or Equal | | |
| | U0400 | Wall Mounted Standards/Shelf Bracket/Shelf | AR | VV | Herman Miller or Equal | | |
| | U2435 | Lamp, Task, Under Cabinet | AR | CC | | | |
| | U2436 | Lamp, Task, Workstation | AR | VV | | | |
| | | Fire Panel FTA 200 (1'-1" H X 7" D)(Red Box) | 2 | VC | Exist'g remove/relocate | | |
| | | Total Alert (16" X 21"H)(Beige Box) | 1 | VC | Exist'g remove/relocate | | |
| | | Kohler Power System (9' X 8"H)(Grey Box) | 1 | VC | Exist'g remove/relocate | | |
| | | Black Box (Fire System) | 1 | VC | Exist'g remove/relocate | | |
| | | Dust Mask- Clear holder | 1 | VV | Exist'g remove/relocate | | |
| | | Key Box (8" X1'-0" H) | 1 | VV | Exist'g remove/relocate | | |

NOTES:
TAG NUMBER STARTING WITH "U" DO NOT HAVE VA PROVIDED JSN NUMBER
CC - CONTRACTOR FURNISHED/INSTALLED
VV - GOVT FURNISHED & INSTALLED
VC- GOVT FURNISHED & CONTRACTOR INSTALLED
AR - "AS REQUIRED". FINAL QUANTITY NOT ESTABLISHED




N
KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

ENGINEERS + CONSULTANTS:
JOHNSONWILBUR ADAMS, INC.
STRUCTURAL ENGINEERING
175 N. Washington St.
Wheaton, Illinois 60187

ARCHITECT + ENGINEERS:
BANCROFT ARCHITECTS + ENGINEERS
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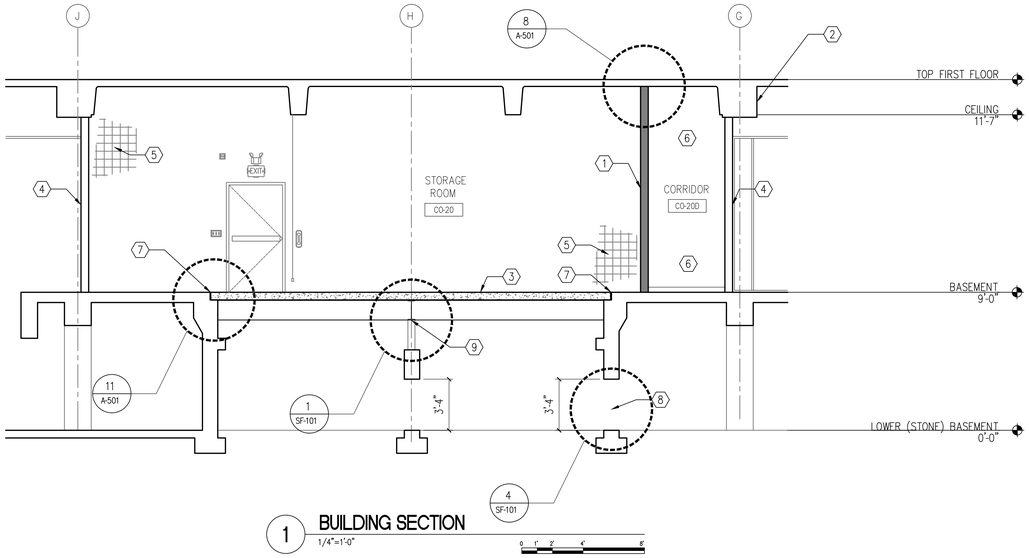
700 Nicholas Blvd. Suite 403
Elk Grove Village, IL 60007
T: 847.952.9362 F: 847.952.9403

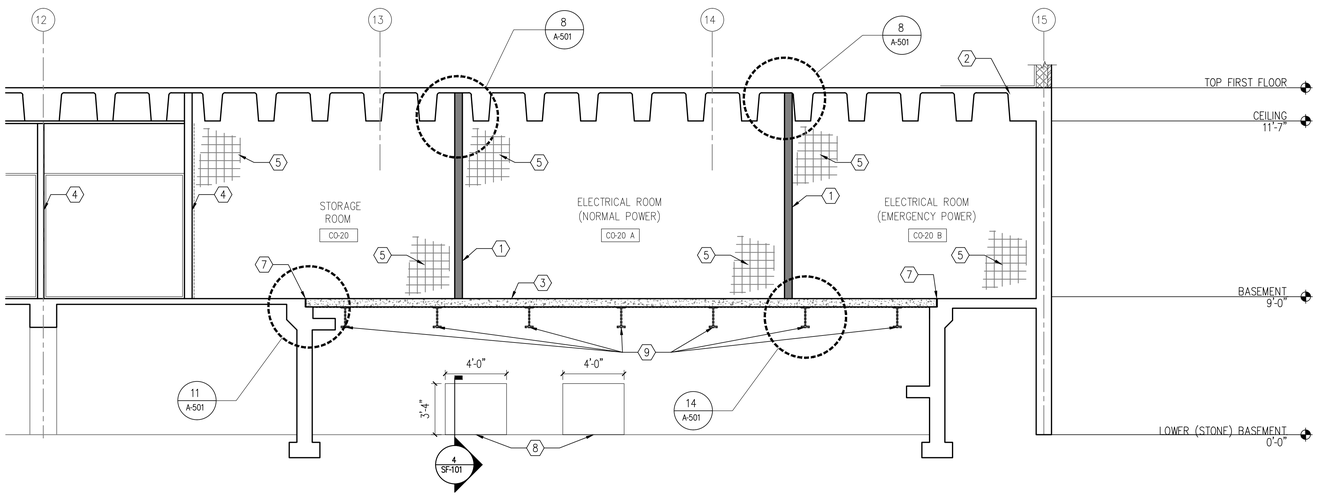
Drawing Title: CONTROL ROOM PLAN, ELEVATIONS AND FURNITURE AND EQUIPMENT SCH.
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
Date: 07/01/2015 | Checked: MP | Drawn: AKP
Project Number: 578-15-026
Building Number: 200
Drawing Number: A-201
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

K:\CCG_PROJECTS\2013\13126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-A-201.dwg 8-27-15 11:10:46 AM crollins




1 BUILDING SECTION
1/4"=1'-0"



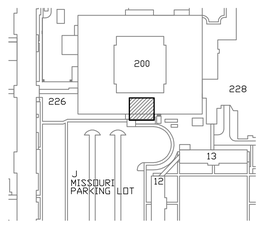

2 BUILDING SECTION
1/4"=1'-0"

## GENERAL NOTES

A. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE AND ORDERLY WORK SITE AT ALL TIMES.
B. THE CONTRACTOR IS RESPONSIBLE FOR THE LOADING/UNLOADING AND HAULING OF ALL MATERIAL TO AND FROM THE CONSTRUCTION SITE.
C. ALL APPLICABLE OSHA REQUIREMENTS, LOCAL BUILDING CODES AND THOSE OF ANY OTHER APPLICABLE REGULATORY AGENCY SHALL BE STRICTLY ADHERED TO.
D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
E. ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND STRUCTURAL, MECHANICAL, ELECTRICAL, PIPING, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DIMENSIONS AND OTHER DETAILS NOT SHOWN ON ARCHITECTURAL DRAWINGS.
F. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORT AND STABLE AFTER THE BUILDING IS COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCING TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THESE INCLUDE THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING GUYS OR TIE DOWNS.
G. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARING SHOP DRAWINGS OR ANY WORK.
H. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO OWNER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO DETAILS AND GIVEN DIMENSIONS IN THE CONTRACT DOCUMENTS.
I. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

## (X) KEY NOTES

1. NEW PARTITION WALL. REFER TO WALL TYPES 1/A-501
2. EXISTING STRUCTURE
3. NEW CONCRETE FLOOR SLAB. REFER TO STRUCTURE DRAWINGS FOR MORE INFORMATION AND DETAILS.
4. EXISTING WALL PARTITION TO REMAIN.
5. EXISTING CERAMIC TILE TO REMAIN ON THE WALLS. VERIFY ALL TILES, REPLACE DAMAGED TILES WITH SIMILAR TILE AS REQUIRED.
6. NEW DRYWALL TO BE PAINTED. REFER TO ROOM FINISH SCHEDULE. A-601.
7. EXPANSION JOINT. REFER TO DETAIL 1/AF-101.
8. ELECTRICAL CONDUIT OPENING
9. STRUCTURAL BEAM AND COL. REFER TO STRUCTURAL DRAWING 5/SF-101 FOR DETAIL INFORMATION.




N

KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

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STRUCTURAL ENGINEERING
175 N. Washington St.
Wheaton, Illinois 60187

ARCHITECT + ENGINEERS:

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T: 847.952.9362 F: 847.952.9403

Drawing Title: BUILDING SECTIONS

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

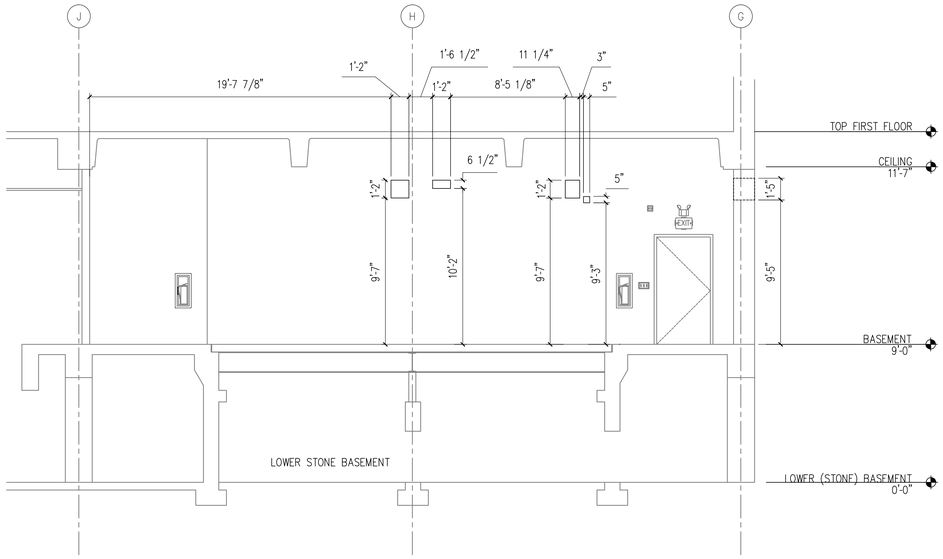
Drawing Number: A-301

Office of Construction and Facilities Management

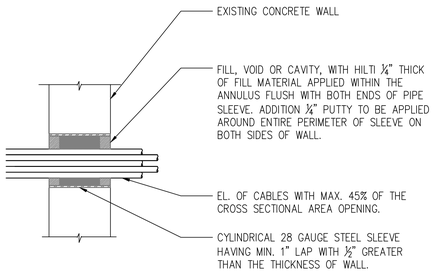
Department of Veterans Affairs

VA FORM 08-6231

K:\CCC_PROJECTS\2013\13-126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-A-301.dwg 8-27-15 11:10:54 AM crollins

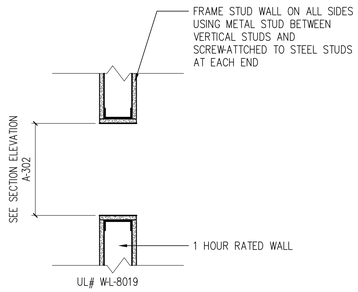



1 BUILDING SECTION
1/4"=1'-0"




NOTE:
1. CONCRETE WALL/FLOOR OPENING AND SLEEVE SHALL BE PROVIDED BY EL. CONTRACTOR.
2. PROVIDE DESIGN TO MEET UL# DESIGNATION C-AJ-3180

2 1HR PENETRATION DETAIL CONCRETE WALL
1"=1'-0"




3 1HR PENETRATION DETAIL GYPSUM WALL
1-1/2"=1'-0"

## GENERAL NOTES

A. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SAFE AND ORDERLY WORK SITE AT ALL TIMES.
B. THE CONTRACTOR IS RESPONSIBLE FOR THE LOADING/UNLOADING AND HAULING OF ALL MATERIAL TO AND FROM THE CONSTRUCTION SITE.
C. ALL APPLICABLE OSHA REQUIREMENTS, LOCAL BUILDING CODES AND THOSE OF ANY OTHER APPLICABLE REGULATORY AGENCY SHALL BE STRICTLY ADHERED TO.
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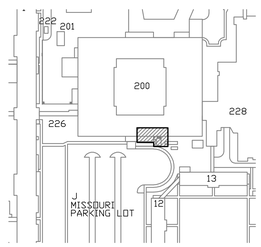
I. CONTRACTOR SHALL OBTAIN OWNER-WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

## (X) KEY NOTES

1.




KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| | |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 95% SUBMITTAL | 06/24/2015 |
| Revisions: | Date |

ENGINEERS + CONSULTANTS:
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700 Nicholas Blvd. Suite 403
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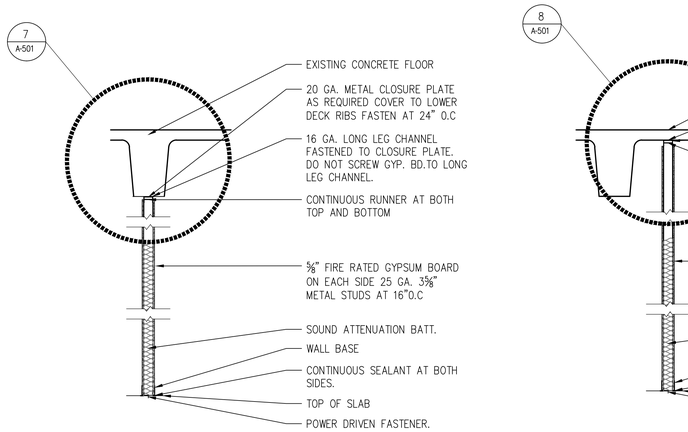
T: 847.952.9362 F: 847.952.9403
www.bancroft-ae.com

Drawing Title: POOL ROOM SECTION AND DETAILS
Approved: Project Director
Project Title: INSTALL ELECTRICAL SERVICE FOR RADIOLOGY EXPANSION, BUILDING 200
Location: HINES, ILLINOIS
Date: 06/24/2015
Checked: KR
Drawn: MP
Project Number: 578-15-033
Building Number: 200
Drawing Number: A-302

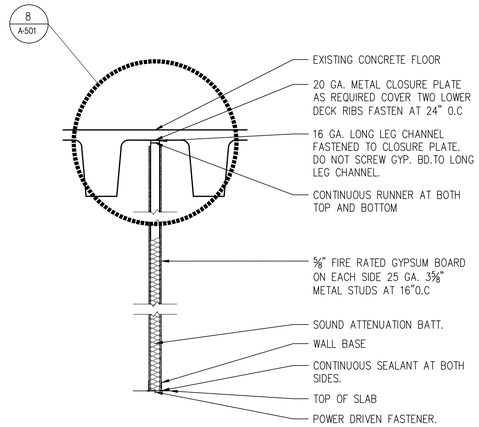
Office of Construction and Facilities Management
Department of Veterans Affairs

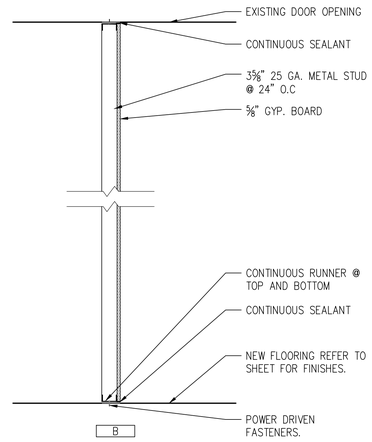
VA FORM 08-6231

K:\CCG_PROJECTS\2013\13-126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15-026-200-A-302.dwg 8-27-15 11:11:00 AM crollins

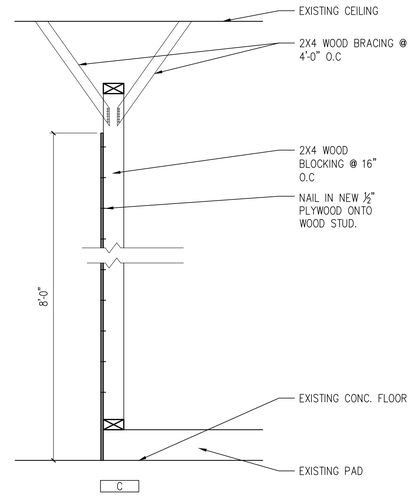



1 WALL TYPE
1/2"=1'-0"

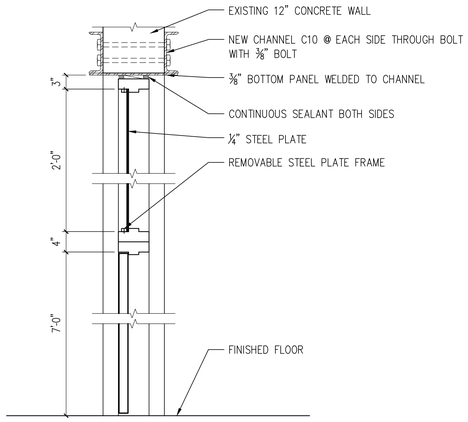


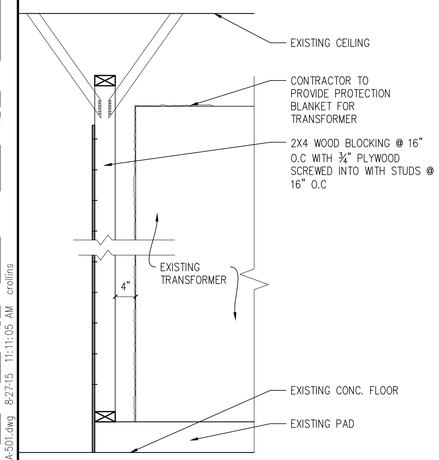

2 TEMP. METAL STUD WALL TYPE
1"=1'-0"



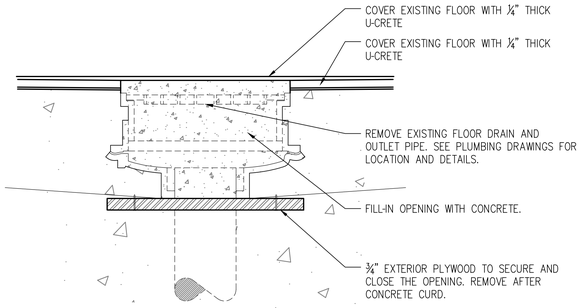

3 TEMP. WOOD WALL TYPE
1"=1'-0"



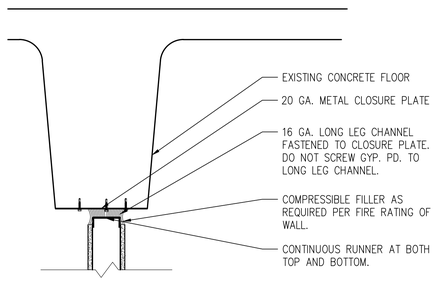

4 REMOVABLE TRANSOM DETAIL
1"=1'-0"



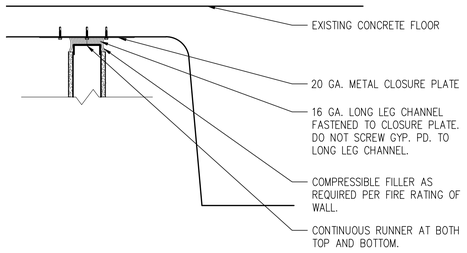

5 TEMP. WOOD WALL DETAIL
1"=1'-0"



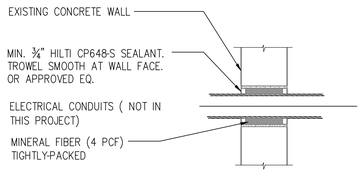

6 EXISTING FLOOR DRAIN ENCLOSURE
3"=1'-0"




7 DETAIL
1-1/2"=1'-0"

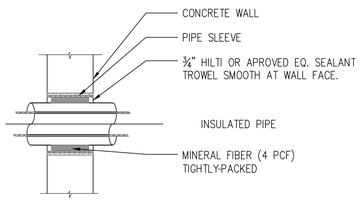



8 DETAIL
1-1/2"=1'-0"



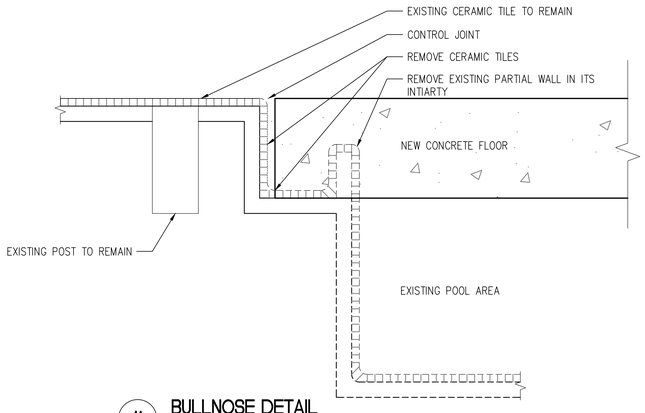

NOTE:
1. CUT OPENING THRU WALL SHALL BE PROVIDED BY THE CONTRACTOR
2. UL # W.J.5042

9 TYPICAL- 1HR PENETRATION DETAIL
3/4"=1'-0"

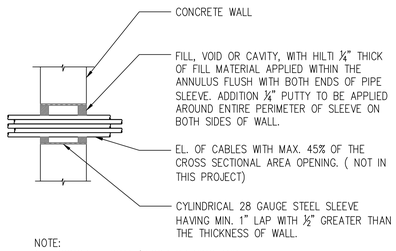



NOTE:
1. WALL OPENING AND SLEEVE SHALL BE PROVIDED AND INSTALLED AS FOLLOWS (CORE ONLY @ CONC. PER (12" O.C.)
2. PROVIDE DESIGN TO MEET UL DESIGNATION W-J-5042. PROVIDE SEALANT BY HILTI. OR APPROVED EQ.

10 TYPICAL- 1HR PENETRATION DETAIL
3/4"=1'-0"

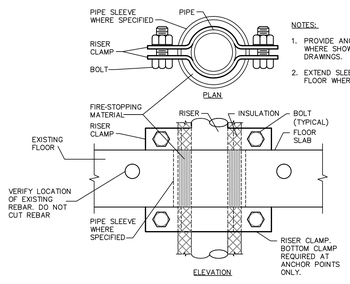



11 BULLNOSE DETAIL
3"=1'-0"

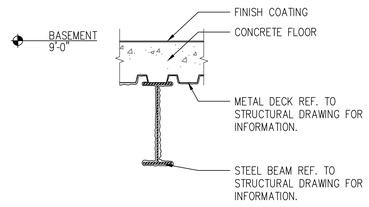



NOTE:
1. CONCRETE WALL/FLOOR OPENING AND SLEEVE SHALL BE PROVIDED BY CONTRACTOR.
2. PROVIDE DESIGN TO MEET UL# DESIGNATION C-AJ-3180

12 TYPICAL- 1HR PENETRATION DETAIL
3/4"=1'-0"




13 SUPPORT/ANCHOR FOR PIPE RISERS
NTS




NOTE:
1. PRIMER COATING 0.003" THICKNESS MODIFIED ALKYD PRIMER.
2. MASTIC COATING. APPLY 0.26" THICK COATING ON THE BOTTOM OF DECK AND STEEL BEAM PER MANUFACTURE REQUIREMENTS.

14 FIRE RESISTANCE DETAIL
1"=1'-0"

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

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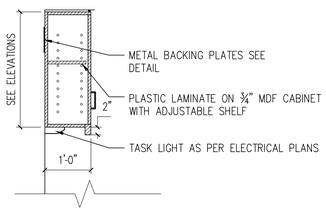
T: 847.952.9362 F: 847.952.9403

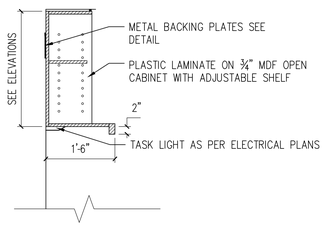
Drawing Title: DETAILS
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
Date: 07/01/2015
Checked: MP
Drawn: AKP
Project Number: 578-15-026
Building Number: 200
Drawing Number: A-501
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

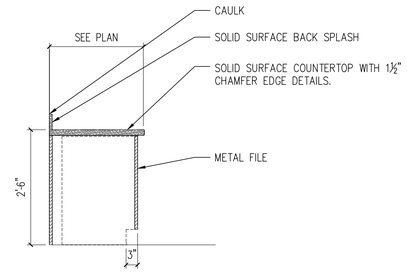
K:\CCG_PROJECTS\2013\13-126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-A-501.dwg 8-27-15 11:11:05 AM crollins




1 UPPER CABINET
3/4"=1'-0"




2 MICROWAVE UPPER CABINET
3/4"=1'-0"




3 METAL FILE
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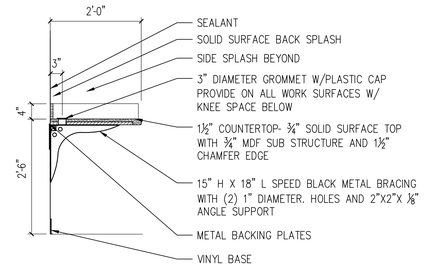
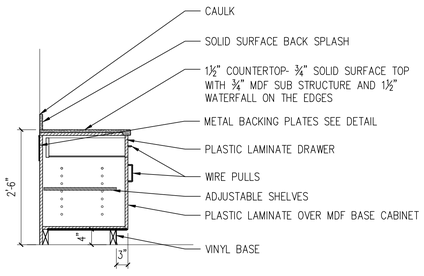
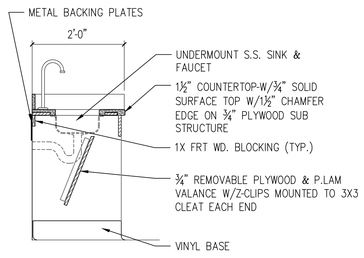



4 SOLID SURFACE COUNTER TOP
3/4"=1'-0"

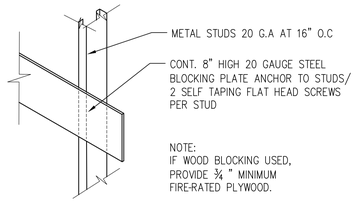



5 BASE CABINET
3/4"=1'-0"

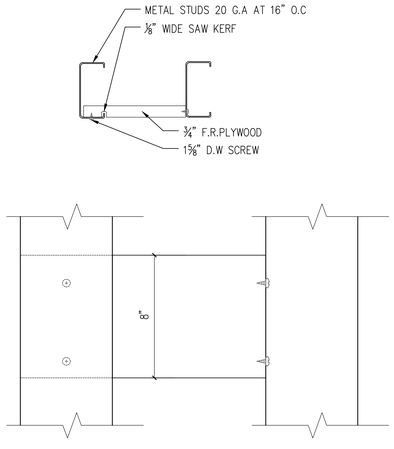



6 SINK BASE CABINET
3/4"=1'-0"

PROVIDE 8"H X 48"L X 20 GAUGE CONTINUOUS BACK-UP BLOCKING PLATES SECURELY ANCHORED WITH FLAT HEAD SCREWS OVER METAL STUDS BEHIND ALL TOILET ACCESSORIES, BASE CABINETS, WALL CABINETS, MILLWORK, SHELVING, VISUAL DISPLAY BOARDS, WALL/HANDRAIL (NEW WALLS) AND ALL OTHER SURFACE MOUNTED ITEMS.




7 BACKING STEEL PLATE DETAIL
1"=1'-0"




8 PLYWOOD BACKING DETAIL
3"=1'-0"

VA CONTRACT NO. VA69D-13-C-0324

| | |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |
| Revisions | Date |

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Elk Grove Village, IL 60007
T: 847.952.9362 F: 847.952.9403

Drawing Title: DETAILS

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

Drawing Number: A-502

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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# ROOM FINISH SCHEDULE

| Room No. | Room Name | Floor | | Base | | Walls | | | | | | | | | | | | CEILING | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | North | | | West | | | South | | | East | | | | | |
| | | Material | Color | Material | Color | Material | Finish | Color | Material | Finish | Color | Material | Finish | Color | Material | Finish | Color | Type | Height | |
| C0-20 | STORAGE ROOM | CONCRETE | SC-1 | CERAMIC | CTB-1 | EXISTG | EXIST-CT | N/A | GYP BD | EXIST-CT* | N/A | GYP BD | CERAMIC | CT-1 | EXISTG | EXIST-CT | N/A | N/A | | *OPENING FINISH WITH CT-1 |
| C0-20 A | NORMAL POWER ROOM | CONCRETE | SC-1 | CERAMIC | CTB-1 | GYP BD | CERAMIC | CT-1 | EXISTG | EXIST-CT* | N/A | GYP BD | CERAMIC | CT-1 | EXISTG | EXIST-CT | N/A | N/A | | *CT-1 FOR WALLS AROUND NEW ENTRY DOOR |
| C0-20 B | EMERGENCY POWER ROOM | CONCRETE | SC-1 | CERAMIC | CTB-1 | GYP BD | CERAMIC | CT-1 | GYP BD | CERAMIC | CT-1 | EXISTG | EXIST-CT | N/A | EXISTG | EXIST-CT | N/A | N/A | | |
| C0-20 C | CORRIDOR | CONCRETE | SC-1 | VINYL | VB-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | EXISTG | P-1 | N/A | | |
| C0-21 | STORAGE ROOM | CONCRETE | SC-1 | VINYL | VB-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | EXISTG | P-1 | GYP. BD | | SAME AS CORRIDOR |
| C0-12 | NEW CONTROL RM | QUARTZ | QT-1 | VINYL | VB-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | ACT-1 | 8'-0" | |
| C0-20D | CORRIDOR | CONCRETE | SC-1 | VINYL | VB-1 | GYP BD | PAINT | P-1 | EXISTG | PAINT | P-1 | GYP BD | PAINT | P-1 | GYP BD | PAINT | P-1 | ACT-1 | 8'-0" | |
| C0-20E | CORRIDOR | VINYL | VCT-1 | VINYL | VB-1 | N/A | N/A | N/A | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | EXISTG | PAINT | P-1 | ACT-1 | 8'-0" | |

**NOTE: ALL FINISHES TO BE VERIFIED BY EDWARD HINES JR. VA HOSPITAL INTERIOR DESIGNER.**

# ROOM FINISH LEGEND

| Key | Material | Manufacturer | Product Properties | Style/Color | Contact |
|---|---|---|---|---|---|
| **FLOOR FINISH** | | | | | |
| QT-1 | QUARTZ TILE | UPOFLOOR OR APPROVED EQUAL | 2.0MM/24" X 24"/QUARTZ | MOSAIC COLLECTION - COLOR: 619323\9323 | Mary Cotey - 847.340.2775 |
| SC-1 | CONCRETE SEAL COAT | PITTSBURGH OR APPROVED EQUAL | ACRYLIC -INTERIOR CLEAR SEALER | PERMA-CRETE PLEX-SEAL - 4-6200/MPI-99 | |
| VCT-1 | VINYL | ARMSTRONG OR APPROVED EQUAL | 12" X 12" X 1/8" GAUGE | MIGRATIONS/COLOR: TBD | Linda Hunt - 312-504-6104 |
| **WALL FINISH** | | | | | |
| P-1 | PAINT | PITTSBURGH PAINTS OR EQUAL | WONDER PURE - ZERO VOC PAINT | COLOR: EUROPEAN WHITE-653 320YY67/084) EGG SHELL FINISH | |
| P-2 | PAINT | PITTSBURGH PAINTS OR EQUAL | VELOUR- INTERIOR ALKYD ENAMEL PAINT (HM) | COLOR: DESERT CASTLE -541 (20YY 53/124) SEMI-GLOSS FINISH | |
| CT-1 | CERAMIC TILE | TBD | 4-1/4" X 4-1/4"/GLAZED WALL TILE | COLOR: TBD/SEMI-GLOSS (TO MATCH EXISTING) | |
| **WALL BASE** | | | | | |
| VB-1 | VINYL BASE | JOHNSONITE OR EQUAL | 4" - 1/8" GAUGE - THERMOPLASTIC VINYL | 4" VINYL BASE - COLOR: 101 SEAWEED | Carol Kotel-Lyne 630.659.4107 |
| CTB-1 | CERAMIC BASE | TBD | 4-1/4" X 4-1/4" COVE BASE | COLOR: TBD/SEMI-GLOSS (TO MATCH EXISTING) | |
| **MILLWORK SURFACE** | | | | | |
| SS-1 | ACRYLIC SOLID SURFACE | HANWHA L&C OR EQUAL | ACRYLIC | HANEX-COLOR: HL-703 - HAVANA SAND | |
| PL-1 | PLASTIC LAMINATE | WILSONART OR EQUAL | HIGH PRESSURE LAMINATE | COLOR: NATURAL TIGRIS 4669-60 | Kathy Walker 630-487-1642 |
| | SPEEDBRACE | FAST CAP OR EQUAL | 21" X 24" - SPEED BRACE - METAL | SB-21X24PRIMED | 888.443.3748 |
| **CEILING TILE** | | | | | |
| GYP. BD | GYPSUM BOARD | USG OR EQUAL | EXISITNG | P1 | |
| ACT-1 | ACOUSTICAL TILE | USG OR EQUAL | WET FORMED MINERAL FIBER | "F" FISSURED - 2" X 2"X 3/4" - WHITE - SQ. EDGE - 15/16" GRID | Andy Vegter - 847.707.0937 |
| **MISCELLANIOUS FINISHES** | | | | | |
| | | | | | |

**NOTE: ALL FINISHES TO BE VERIFIED BY EDWARD HINES JR. VA HOSPITAL INTERIOR DESIGNER.**

# DOOR SCHEDULE

| Number | Door Width Active Leaf | Door Width Inactive Leaf | Door Height | Door Thickness | Door Material | Door Finish | Door Glazing | Door Type | Frame Material | Frame Type | Frame Head | Frame Jamb | Frame Sill | Fire Rating | Hardware | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A-1 | 3'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | 1/4" | D | H.M | 1 | 2/A-601 | 5/A-601 | | 45 MIN | 1.1 | EM. PASS, D17, |
| A-2 | 4'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | N | A | H.M | 4 | 3/A-601 | 3/A-601 | | 45 MIN | 2.0 | EM. PASS, D17, WITH REMOVABLE TRANSOM |
| B-1 | 4'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | N | A | H.M | 4 | 3/A-602 | 3/A-601 | | 45 MIN | 2.0 | EM. PASS, D17, WITH REMOVABLE TRANSOM |
| B-2 | 3'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | 1/4" | D | H.M | 1 | 2/A-601 | 5/A-601 | | 45 MIN | 1.0 | EM. PASS, D17 |
| D-1 | 3'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | N | A | H.M | 1 | 4/A-601 | 4/A-601 | | 45 MIN | 3.0 | KEY AADI, D15 |
| A-12 | 3'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | 1/4" | D | H.M | 1 | 4/A-601 | 4/A-601 | | 45MIN | 3.1 | KEY AADI D3, D13 |
| B-12 | 3'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | 1/4" | D | H.M | 1 | 4/A-601 | 4/A-601 | | 45MIN | 3.2 | KEY AADI D3, D13 |
| A-23 | Existing | Existing | Existing | Existing | Existing | Existing | Existing | Existing | Existing | 2 | | | | | | PROVIDE INSUL. COVER DOOR WITH 1/4" STEEL PLATE. PAINTED, D8, D9 |
| B-23 | 4'-0" | 2'-0" | 7'-0" | 1 3/4" | H.M | PAINT | N | B | H.M | 3 | 1/A-601 | 4/A-601 | 6/-A601 | 45 MIN | 1.2 | EM. PASS, D15, WITH REMOVABLE TRANSOM |
| A-22 | 3'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | N | A | H.M | 1 | | | | 45 MIN | 1.0 | D15 |
| A-40 | 4'-0" | | 7'-0" | 1 3/4" | H.M | PAINT | N | A | H.M | 1 | 2/A-602 | 5/A-601 | | 45 MIN | 3.3 | KEY BIOMED, D15 |

## DOOR AND FRAME NOTES

1. ALL DOORS WILL BE SHOP PRIMED AND FILED FINISHED.
2. PAINT ALL UNFINISHED OR PRIMED, EXPOSED STEEL AT INTERIOR AND EXTERIOR TO MATCH EXISTING.
3. ALL GLAZING SHALL MEET THE REQUIREMENTS OF 2010 IBC.
4. THE MAXIMUM FORCE FOR PUSHING OR PULLING A DOOR SHALL BE: EXTERIOR DOOR-85 LBF INTERIOR DOOR-5LBF SLIDING DOOR- 5LBF
5. REFER TO ELECTRICAL DRAWINGS FOR EXIST SIGNS AND AUTOMATED ALARMING REQUIREMENTS.
6. DOOR FRAMES SHALL BE PROVIDED WITH MANUFACTURERS STANDARD DOOR SILENCERS.
7. DOOR FRAMES SHALL BE MORTISENED, REINFORCED, DRILLED AND TAPPED IN SHOP AS REQUIRED TO ACCEPT SPECIFIED FINISH HARDWARE.
8. PROVIDE ALL EXTERIOR DOORS INSULATED MAXIMUM U-FACTOR = 0.14.
9. METAL FACE SHEETS FOR EXTERIOR DOORS SHALL BE 16GA. AND FOR INTERIOR DOORS SHALL BE 18GA.
10. HOLLOW METAL DOOR FRAMES FOR EXTERIOR DOORS SHALL BE 6 GA. AND FOR INTERIOR DOORS SHALL BE 16 GA.
11. DOOR AND FRAME SIZES INDICATED ARE NOMINAL. PROVIDE ¼" UNDERCUT AT DOOR PANELS OF INTERIOR DOORS. PROVIDE UNDERCUT AT PANELS OF EXTERIOR DOORS TO ALLOW FOR THRESHOLD PLATE PLUS ⅛" CLEAR.
12. PAINT ALL UNFINISHED OR PRIMED, EXPOSED HOLLOW METAL AT INTERIOR AND EXTERIOR.
13. DOOR GLAZING SHALL BE WITH GLASS MEETING SAFETY STANDARDS OF 16 CRF 1201, AND ANSI Z97.1. NEW GLASS SHALL BE ¼" THICK, CLEAR, TEMPERED GLASS. PROVIDE SETTING BLOCKS, SPACERS AND GLAZING GASKETS AS CALLED FOR, AND/OR AS REQUIRED BY THE GLASS MANUFACTURER, FOR A QUALITY INSTALLATION.
14. SEE PLAN FOR ACTIVE LEAF LOCATION
15. PROVIDE CONCEALED VERTICAL ROD PANICS WITH TOP AND BOTTOM ROD, AND EXIT DEVICE AT ACTIVE LEAF.
16. SEE PLAN FOR DOOR SWING DIRECTIONS PROVIDE SURFACE MOUNTED VERTICAL ROD PANICS WITH TOP AND BOTTOM ROD AND EXIT DEVICE AT PUSH SIDE FACE OF EACH LEAF.

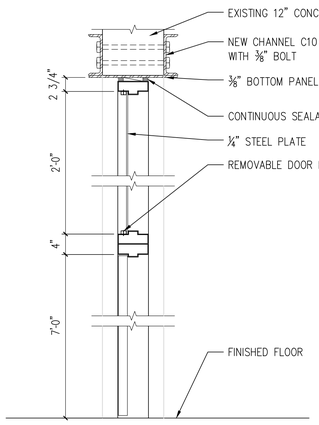
## PAINT NOTES

1. PROVIDE "STEEL-IT" PRODUCT FOR ALL EXTERIOR AND INTERIOR STEEL, MISCELLANEOUS STEEL.

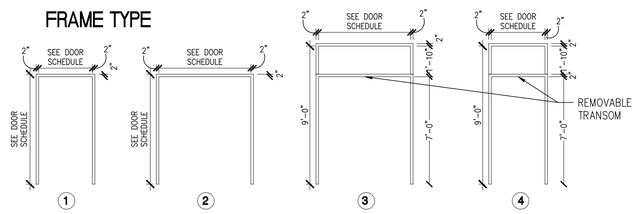
## HARDWARE NOTES

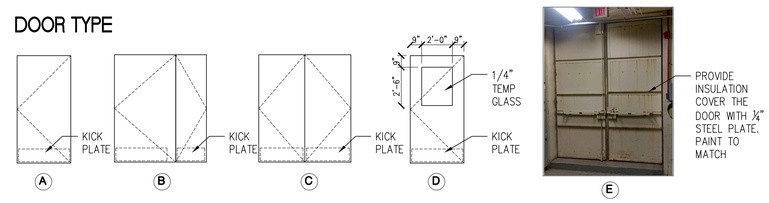
1. DOOR HARDWARE SHALL BE CAPABLE OF OPERATION WITH THE USE OF ONE HAND AND SHALL NOT REQUIRE TIGHT PINCHING, TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE.
2. ALL THE LOCKING HARDWARE MUST BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE OR EFFORT.
3. WHERE KICK PLATES ARE CALLED FOR, MOUNT TO PUSH SIDE OF DOOR.
4. ALL OPENING SIZES TO BE VERIFIED IN FIELD.
5. ALL LOCKING HARDWARE TO BE COORDINATED WITH OWNER.
6. GROUT NEW DOOR FRAMES SOLID.

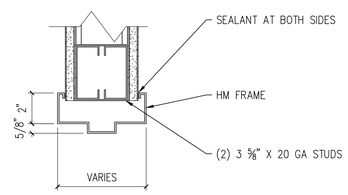
DOOR HARDWARE SCHEDULE
SEE SPECIFICATIONS FOR HARDWARE SETS.



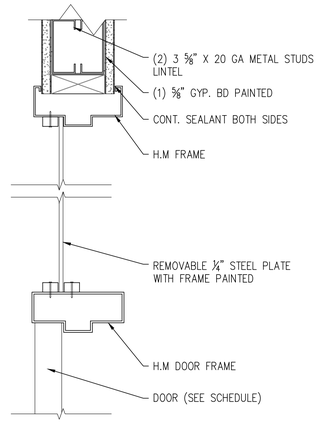

1 TYPICAL HEADER AT CONCRETE WALL
1"=1'-0"



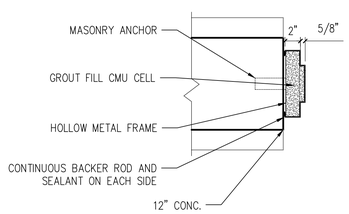



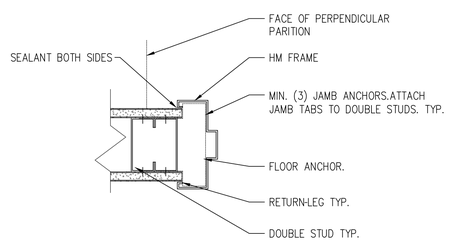

2 TYPICAL HEAD DETAIL
3"=1'-0"



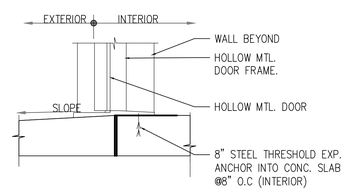

3 TYPICAL HEAD + JAM DETAIL
3"=1'-0"



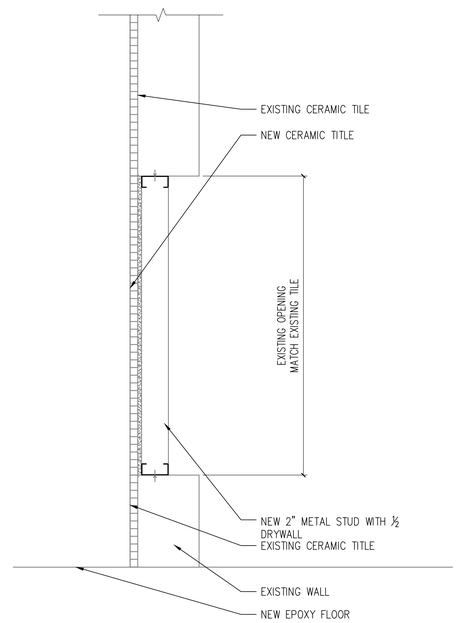

4 TYPICAL JAMB AND HEAD DETAIL AT CONCRETE WALL
1-1/2"=1'-0"




5 TYPICAL JAMB DETAIL
3"=1'-0"




6 TYPICAL SILL DETAIL
1-1/2"=1'-0"




7 RETURN VENT DETAIL
1-1/2"=1'-0"

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

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Drawing Title: DOOR AND FLOOR SCHEDULES AND DETAILS
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
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Project Number: 578-15-026
Building Number: 200
Drawing Number: A-601

Office of Construction and Facilities Management
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VA FORM 08-6231

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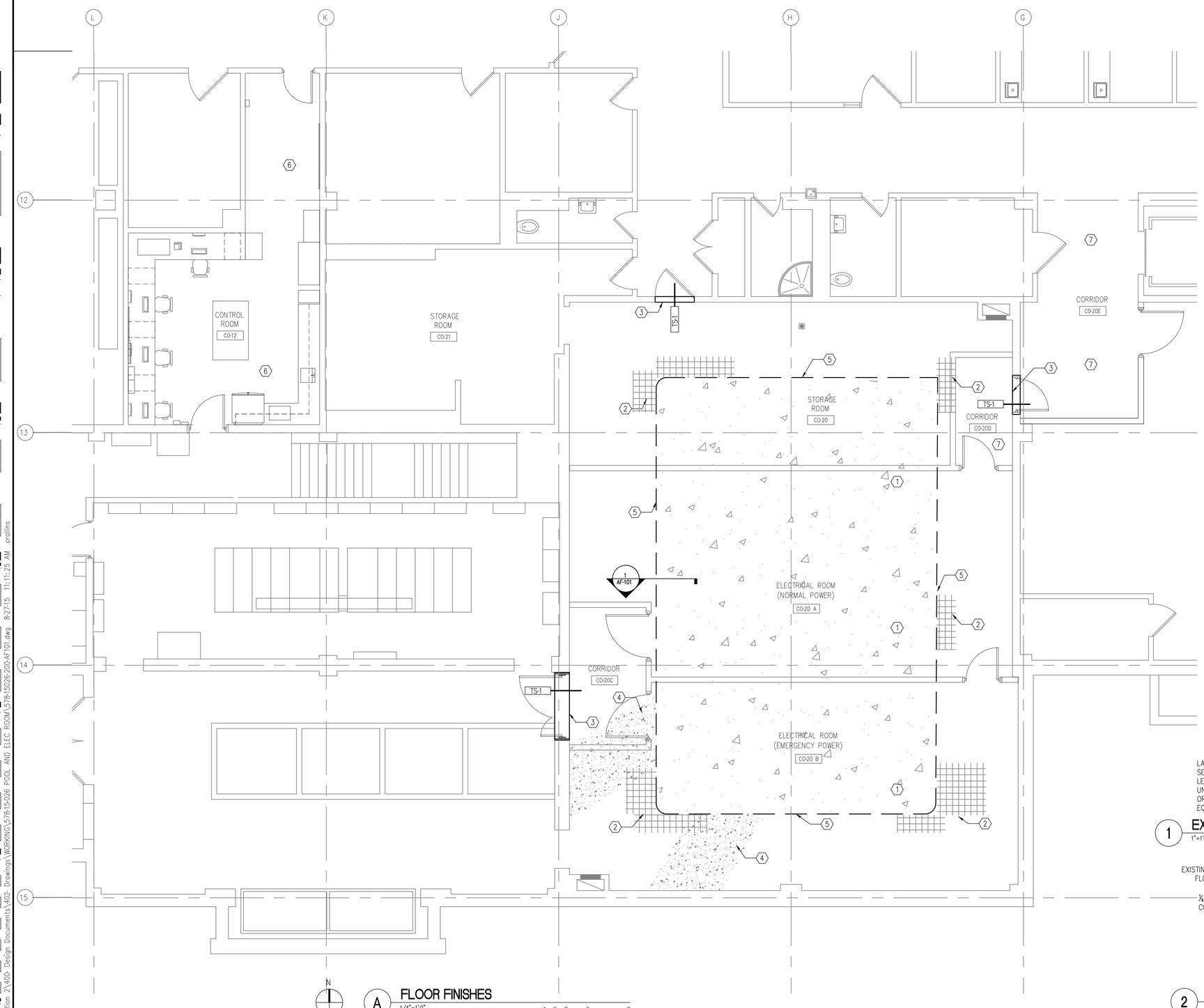


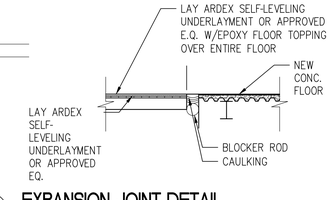

A FLOOR FINISHES
1/4"=1'-0"

## GENERAL NOTES

A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND CIVIL ITEMS THAT FACILITATES NEW CONSTRUCTION.
B. REFER TO FINISH SCHEDULE FOR ANY ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE ANY DEMOLITION/REMOVAL WORKS INDICATED ON DEMOLITION PLANS.
C. VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE ARCHITECT.
D. REFER TO MECHANICAL, PLUMBING/FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AS WELL AS EXISTING PIPING, CONDUITS, DUCTWORK ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.
E. ALL CONSTRUCTION TO REMAIN AFFECTED BY DEMOLITION SHALL BE PATCHED, PLASTERED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. ALL ADJACENT FLOORS AND CEILINGS SO AFFECTED BY DEMOLITION SHALL BE PATCHED AS TO LEAVE NO EVIDENCE FOR PATCHING OR REPAIR.
F. ALL WORK SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNERS REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST INSPECTION PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF THE WORK INACCESSIBLE FOR INSPECTION.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ANY TEMPORARY SHORING AND BRACING REQUIRED DURING CONSTRUCTION. DESIGN OF TEMPORARY SHORING AND BRACING SHALL BE BY A COMPETENT STRUCTURAL ENGINEER.
H. WHERE PIPES, CONDUITS, DUCTWORK, ETC. ARE TO BE REMOVED FROM ANY WALL, FLOOR OR ROOF SYSTEM THAT IS TO REMAIN. THE OPENING SHALL BE INFILLED WITH MATERIALS THAT MATCH THE EXISTING CONSTRUCTION AND RESTORED TO MAINTAIN DESIGNATED FIRE OR SMOKE RATING. NEW PENETRATIONS THRU EXISTING WALLS, FLOORS OR ROOFS SHALL BE FIRE STOPPED TO MATCH EXISTING FIRE RATING.
I. DEMOLISHED ITEMS ARE TO BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED PIPING, WIRING, HANGERS, SUPPORTS, ETC. IN CEILINGS AND SOFFITS.
J. ALL INTERFERENCES OF STRUCTURAL WALLS, BEAMS, JOIST, COLUMNS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NO FLOOR OR STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION OF A REGISTERED STRUCTURAL ENGINEER. ALL PROPOSED SLEEVE/CORING SHALL BE REVIEWED BY THE ARCHITECT.
K. CAREFULLY REMOVE ITEMS MARKED-UP BY THE OWNER AS OWNER'S SALVAGE. TRANSPORT ITEMS TO OWNER'S DESIGNATED STORAGE AREA(S).

## (X) KEY NOTES

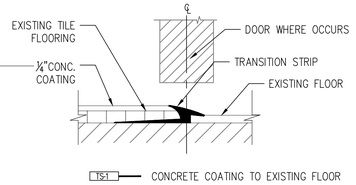
1. SEALED CONCRETE
2. EXISTING CERAMIC TILE
3. THRESHOLD
4. CONTRACTOR TO PREP EXISTING CERAMIC TILE WITH ARDEX K-15 SELF-LEVELING UNDERLAYMENT CONCRETE OR APPROVED EQ. TO COVERED AREA WITH ⅛" BASE EPOXY FLOORING MASTER TOP 1234 SYSTEM OR APPROVED EQ.
5. CONTROL JOINT ALL AROUND
6. NEW VCT FLOORING.
7. NEW FLOORING REFER TO ROOM FINISH SCHEDULE A-601.




1 EXPANSION JOINT DETAIL
1"=1'-0"

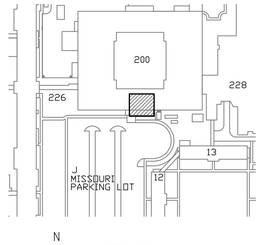
## LEGEND

NEW PARTITION
EXISTING PARTITION
EXISTING DOOR
NEW DOOR




TS1 — CONCRETE COATING TO EXISTING FLOOR

2 TRANSITION STRIP DETAIL
1"=1'-0"




KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
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| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
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Drawing Title: ROOM FINISHES, NOTES AND DETAILS

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: MP | Drawn: AKP

Project Number: 578-15-026

Building Number: 200

Drawing Number: AF-101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

K:\CCG_PROJECTS\2013\13-126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-AF101.dwg 8-27-15 11:11:25 AM crollins

# FIRE PROTECTION NOTES:

1. THESE PLANS HAVE BEEN PREPARED TO PROVIDE GUIDANCE FOR BIDDING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE FIRE PROTECTION CONTRACTOR SHALL ADHERE TO THIS PERFORMANCE SPECIFICATION AND PROVIDE A SPRINKLER DESIGN TO MEET ALL INTENTS OF THIS SPECIFICATION. THE WORK THAT IS INDICATED IN THIS DOCUMENT IS AN OVERVIEW OF THE PROJECT, INTENDED TO ESTABLISH THE SCOPE OF THE CONTRACTOR'S RESPONSIBILITIES. THE CONTRACTOR PRIOR TO BID SHALL CONSULT THE LOCAL AUTHORITY HAVING JURISDICTION FOR ANY ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKING DRAWINGS, EQUIPMENT, SPECIFICATIONS AND HYDRAULIC CALCULATIONS TO THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION, WITH THEIR ENGINEER SEAL. THE CONTRACTOR SHALL BE THE ENGINEER OF RECORD. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE AND FULLY OPERABLE SPRINKLER SYSTEM.

2. THE CONTRACTOR SHALL MAINTAIN AN APPROVED COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN "AS-BUILT DRAWINGS." ANY REVISIONS SHALL BE NOTED THEREIN AND SUBMITTED TO THE OWNER AT THE COMPLETION OF THE JOB. THE CONTRACTOR SHALL USE THE "AS-BUILT DRAWINGS" TO PROVIDE A REPRODUCIBLE RECORD SET OF THE COMPLETED SYSTEM AND SUBMIT THE RECORD SET TO THE OWNER.

3. THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE CODE AND DIRECTIVES, THE NFPA #13 EDITION REFERENCED BY THE CODE, THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER AND THE AHJ. COMPLETE SPRINKLER PROTECTION SHALL BE PROVIDED THROUGHOUT ALL INDICATED BUILDING AREAS.

4. ALL COMPONENTS OF THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE UL LISTED AND/OR FACTORY MUTUAL GLOBAL APPROVED, AND HAVE PRIOR APPROVAL OF THE AUTHORITY HAVING JURISDICTION FOR USE IN FIRE SPRINKLER SYSTEM.

   A. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE UL APPROVED.

5. THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

   A. SITE VISIT TO EXAMINE THE EXISTING CONDITIONS THAT MAY EFFECT THE EFFICIENT AND TIMELY PERFORMANCE OF THE WORK INDICATED.

   B. HYDRAULIC DESIGN OF WET SPRINKLER SYSTEMS, INCLUDING COORDINATED SHOP DRAWINGS AND CALCULATIONS, SUBMITTALS FOR APPROVALS TO ARCHITECT/ENGINEER, AHJ AND OWNER'S INSURANCE UNDERWRITER. CALCULATIONS SHALL BE BASED ON NFPA #13. CONDUCT SUCH A TEST IF RECORD DATA IS UNAVAILABLE OR OUT OF DATE.

   C. PIPE SLEEVES SET IN COORDINATED LOCATIONS, THROUGH WALLS, FLOORS AND STRUCTURAL ELEMENTS, WITH PLASTIC PLATES FOR EXPOSED TO VIEW PIPES, PASSING THROUGH FINISHED WALLS, FLOORS AND CEILINGS.

   D. ALL CUTTING, SEALING, PATCHING AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIALS FOR THOSE PENETRATIONS THAT ARE THROUGH FIRE RATED WALLS, A U.L. LISTED FIRE STOPPING MATERIAL SHALL BE USED TO MAINTAIN FIRE RESISTANCE RATING.

   E. ALL REQUIRED ACCEPTANCE TESTING AND DOCUMENTATION TO THE SATISFACTION OF THE AHJ.

   F. PROVIDE TEMPORARY FIRE PROTECTION AS REQUIRED BY THE AHJ, FOR ALL REQUIRED CONTRUCTION OPERATIONS.

   G. PROVIDE RECORD DRAWINGS, VALVE TAG SCHEDULES, TESTING CERTIFICATIONS AND PERSONNEL INSTRUCTION FOR EACH SYSTEM, PRIOR TO SYSTEM TURN-OVER TO THE OWNER.

   H. COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTIONS TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. EXTRA SPRINKLERS MAY BE REQUIRED AT NOT ADDITIONAL COST TO VA HOSPITAL. REFER TO SPECIFICATIONS FOR ANY OTHER ADDITIONAL REQUIREMENTS.

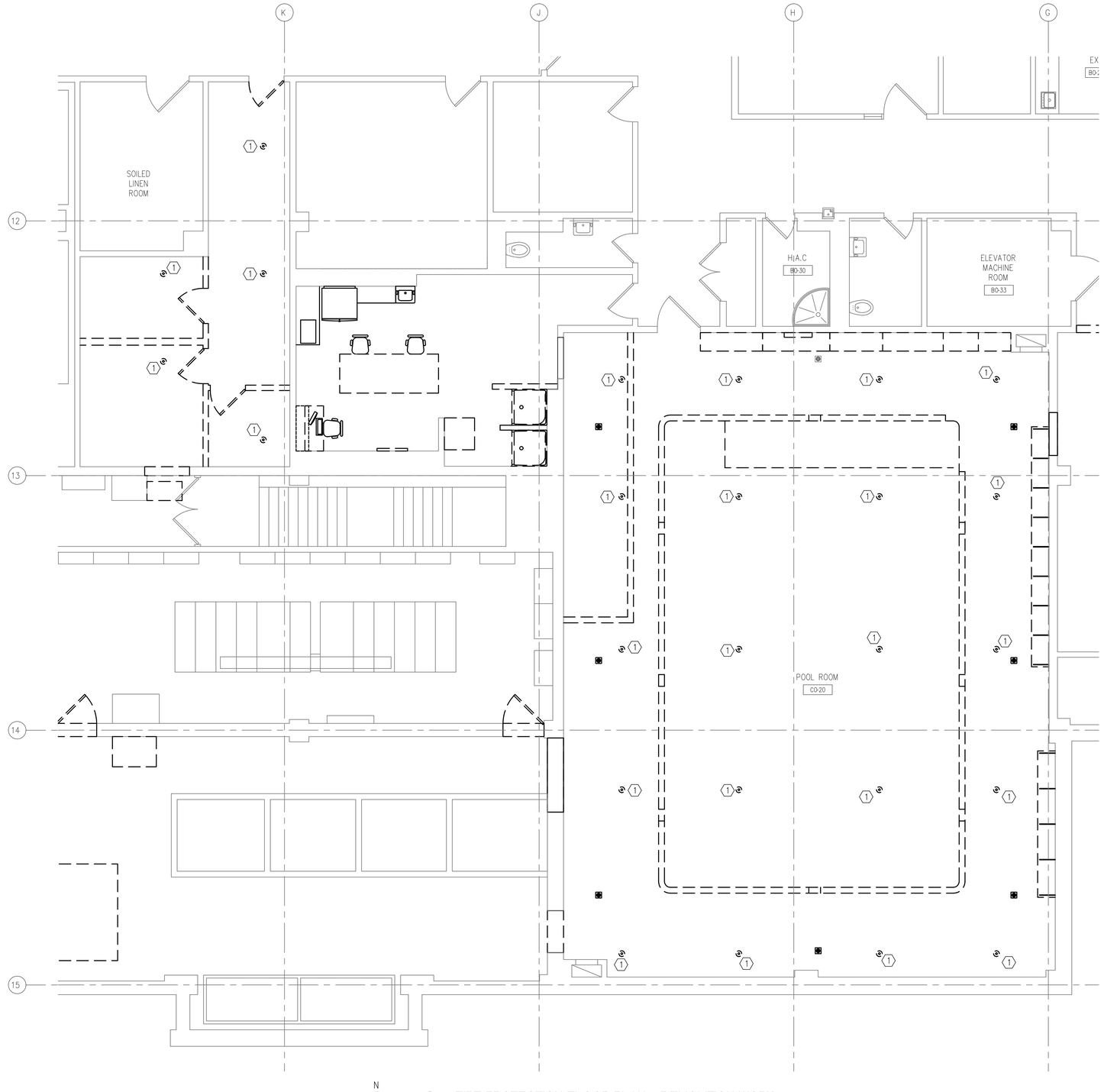
6. DESIGN EACH SPRINKLER SYSTEM GIVING FULL CONSIDERATION TO THE HORIZONTAL AND VERTICAL OBSTRUCTIONS TO SPRINKLER SPRAY PATTERNS, PRESENTED BY ARCHITECTURAL LAYOUTS OF ROOMS, DIFFERENT ADJACENT CEILING ELEVATIONS, BUILDING CONSTRUCTION, DUCTWORK AND MECHANICAL EQUIPMENT, SUSPENDED LIGHTS, ELECTRICAL EQUIPMENT AND CONDUIT BANKS. COORDINATE THE LOCATION AND LAYOUT OF SPRINKLERS, PIPING AND EQUIPMENT WITH THE DETAILED INSTALLATION DRAWINGS OF ALL OTHER TRADES.

7. SUBMIT AN RFI (REQUEST FOR INFORMATION), FOR ALL QUESTIONS RELATED TO THE FIRE PROTECTION DOCUMENTS.

8. PENETRATIONS OF RATED WALLS OR ASSEMBLIES SHALL BE "FIRE CAULKED" WITH APPROVED CAULKING PER METHODS REQUIRED BY PROJECT SPECIFICATIONS.

9. THE SPRINKLER CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATION TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH OTHER TRADES, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN APPROVAL OF THESE CHANGES BY THE AHJ, AND THE FIRE PROTECTION ENGINEER OF RECORD. IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE SPRINKLER CONTRACTOR MUST MAKE NOTE OF ALL FIELD OR COORDINATE CHANGES ON THE INSTALLATION DRAWINGS. ONCE COMPLETE, THE SPRINKLER CONTRACTOR SHALL SUPPLY ONE COPY OF AS-BUILT DRAWINGS TO VA HOSPITAL FIRE PROTECTION CONSULTANT FOR THEIR USE.

10. IN THE EVENT OF CONFLICT, AMBIGUITY OR INCONSISTENCY IN OR BETWEEN THE ELEMENTS COMPRISING THE CONTRACT DOCUMENTS, NOT CLARIFIED BY A MODIFICATION, THE CONTRACTOR WILL BE DEEMED TO HAVE ESTIMATED ON, AND AGREED TO PROVIDE, THE GREATER QUANTITY OR BETTER QUALITY OF PRODUCTS AND THE WORK IN ACCORDANCE WITH THE INTERPRETATION BY ARCHITECT OF WHICH CONFLICTING REQUIREMENT COVERNS, UNLESS HE SHALL HAVE, BEFORE SUBMISSION OF HIS BID, ASKED FOR AND OBTAINED WRITTEN DECISION OF THE ARCHITECT AS TO WHICH PRODUCTS AND WORK WILL BE REQUIRED. IF THE OWNER WITH CONSULTATION OF THE ARCHITECT DECIDES TO ACCEPT A LESSER QUANTITY OR LOWER QUALITY OF PRODUCTS AND WORK, THE CONTRACTOR SHALL REMIT TO THE OWNER THE DIFFERENCE BETWEEN THE COST OF THE WORK THAT THE OWNER ACCEPTS AND THE COST OF THE GREATER QUANTITY OR BETTER QUALITY OF PRODUCTS AND WORK.

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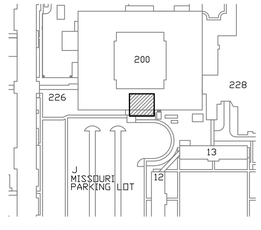
A FIRE PROTECTION FLOOR PLAN - DEMOLITION WORK
1/4"=1'-0"

## FIRE PROTECTION KEY NOTES

1. DEMO AND REMOVE EXISTING SPRINKLER HEADS AND ALL ASSOCIATED FIRE PROTECTION PIPING OUT OF THE NEW SWITCHGEAR SPACE. CAP AND SEAL ALL PIPING.
2. DEMO AND REMOVE EXISTING SPRINKLER HEADS AND PREPARE PIPING FOR NEW SPRINKLER HEAD CONNECTION.

## INTERIM LIFE SAFETY MEASURES - ILSM

1. OWNER WILL DRAIN THE FIRE PROTECTION ZONE FOR OUR PROJECT AREA/SPACE. CONTRACTOR SHALL ASSIST THE OWNER WITH THIS OPERATION AND SCOPE OF WORK.
2. CONTRACTOR SHALL THEN REMOVE AND CAP ALL FIRE PROTECTION PIPING WITHIN PROJECT AREA INDICATED.
3. OWNER WILL THEN REFILL FIRE PROTECTION SYSTEM WITH WATER.
4. CONTRACTOR SHALL INSPECT ALL TEMPORARY CAPS AT FIRE PROTECTION PIPING LOCATIONS FOR ANY WATER FLOW/LEAKS.
5. AT PROJECT COMPLETION PHASE OF WORK THE OWNER WILL DRAIN THE FIRE PROTECTION SYSTEM. CONTRACTOR SHALL ASSIST THE OWNER DURING THIS OPERATION.
6. ONCE FIRE PROTECTION SYSTEM IS DRAINED CONTRACTOR SHALL FURNISH AND INSTALL NEW SPRINKLER HEADS AS SPECIFIED.
7. AFTER NEW SPRINKLER HEADS ARE IN PLACE OWNER WILL REFILL FIRE PROTECTION SYSTEM WITH WATER.
8. CONTRACTOR SHALL INSPECT ALL NEW SPRINKLER HEADS TO VERIFY WATER TIGHT CONDITION.
9. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEAT DETECTORS AT ALL PROJECT ROOMS AND SPACES DURING CONSTRUCTION PHASE OF WORK, FURNISH AND INSTALL TEMPORARY CONDUITS, WIRING AND DEVICES AND CONNECT TO EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL CONSULT WITH JBVAMC FIRE ALARM CONTROL COMPANY AND PERFORM A CERTIFICATION TESTING THAT TEMPORARY DEVICES ARE IN OPERATION AND SUBMIT WRITTEN REPORT OF SAME. AT PROJECT COMPLETION PHASE CONTRACTOR SHALL REMOVE TEMPORARY HEAT DETECTORS AND RESPECTIVE FIRE ALARM WRING.

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| Revisions: | Date |

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Approved: Project Director

| Drawing Title | Project Title | Project Number |
|---|---|---|
| FIRE PROTECTION FLOOR PLAN-DEMOLITION WORK | RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM | 578-15-026 |
| | Location: HINES, ILLINOIS | Building Number: 200 |
| | Date: 07/01/2015 · Checked: SAT · Drawn: RAH | Drawing Number: FPD-101 |

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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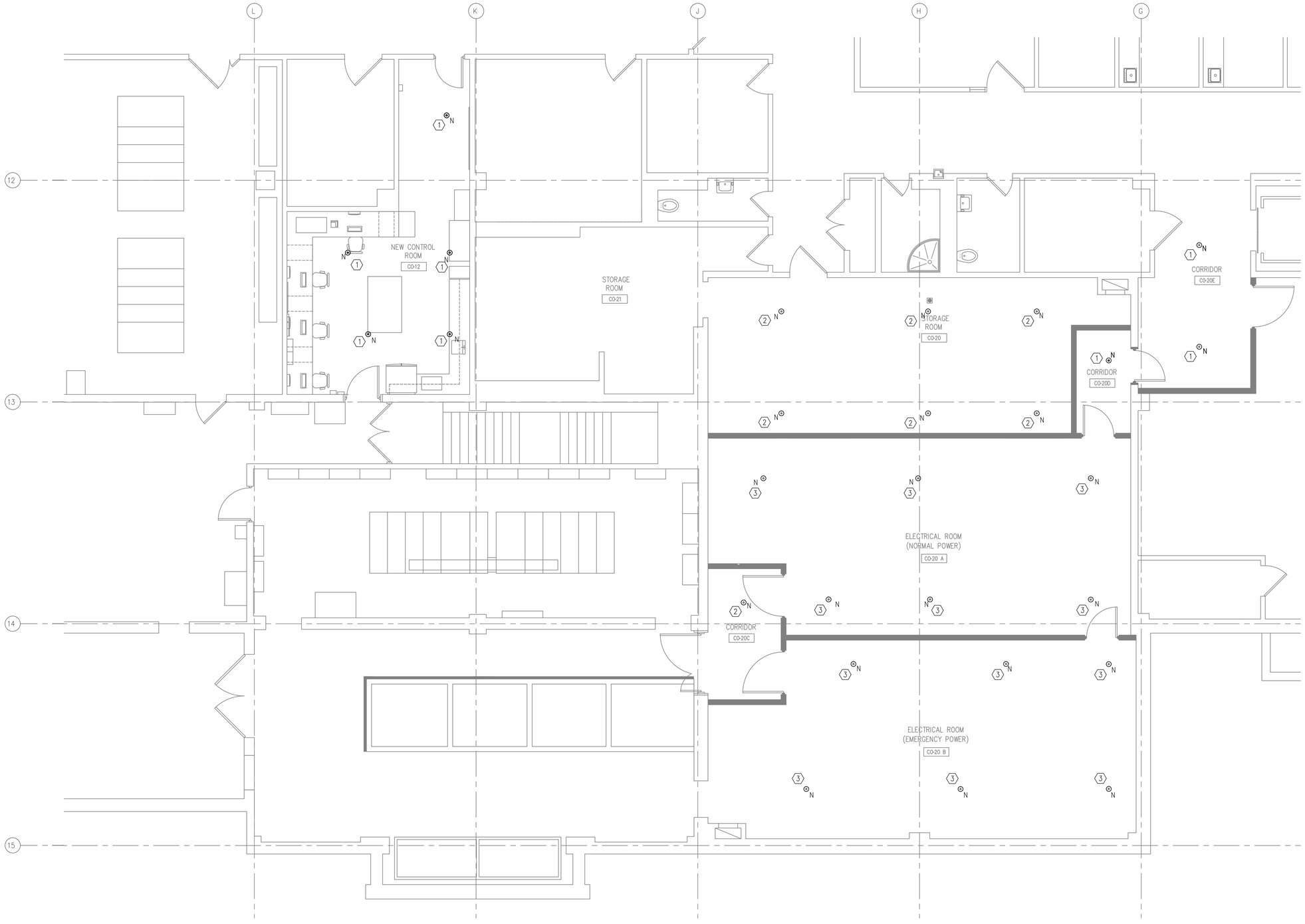


## FIRE PROTECTION GENERAL NOTES

1. INSTALL NEW SPRINKLER HEADS AND FIRE PROTECTION PIPING PER NFPA 13 AS NEEDED TO ACCOMMODATE NEW FLOOR LAYOUT. COORDINATE FINAL PIPE ROUTING WITH LIGHTING AND BUILDING STRUCTURE.
2. ALL NEW SPRINKLER HEADS SHALL BE INSTALLED IN THE CENTER OF THE CEILING TILE.
3. LOCATE SPRINKLERS AND PIPING AWAY FROM ELECTRICAL EQUIPMENT. NO BRANCH PIPING AND SPRINKLER HEADS SHALL BE DIRECTLY OVER ELECTRICAL EQUIPMENT.

## (X) FIRE PROTECTION KEY NOTES

1. SPRINKLERS ARE TO BE A MINIMUM TEMPERATURE OF 155°F, QUICK RESPONSE, AND CONCEALED TYPE. ALL SPRINKLER SHALL BE UL LISTED.
2. SPRINKLERS ARE TO BE A MINIMUM TEMPERATURE OF 155°F, QUICK RESPONSE, AND PENDENT TYPE. ALL SPRINKLER SHALL BE UL LISTED.
3. SPRINKLERS ARE TO BE A MINIMUM TEMPERATURE OF 255°F QUICK RESPONSE, AND PENDENT TYPE. ALL SPRINKLER SHALL BE UL LISTED.

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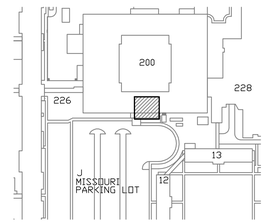
A FIRE PROTECTION FLOOR PLAN- NEW WORK
1/4"=1'-0"

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Drawing Title: FIRE PROTECTION FLOOR PLAN-NEW WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: PAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: FP-101

Office of Construction and Facilities Management

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# PLUMBING GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS:INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS AND ENTIRE PROJECT MANUAL. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL CHARGE TO THE VA.

2. PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF THEIR TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

3. PLUMBING DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE VA.

4. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE PROVIDED ON THE DRAWINGS, THE PLUMBING CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR A COMPLETE OPERATING SYSTEM FOR THIS ITEM.

5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT GOVERNING LOCAL, COUNTY STATE AND FEDERAL BUILDING CODE REQUIREMENTS AND REGULATIONS BUT IN COMPLIANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.

6. PLUMBING CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.

7. PLUMBING CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS/HER WORK AND MATERIALS FOR A PERIOD OF TIME, AS REQUIRED BY THE SPECIFICATIONS, AFTER FINAL ACCEPTANCE BY THE VA.

8. PLUMBING CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

9. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN THE NUMBERS REQUIRED BY THE SPECIFICATIONS. PRIOR TO THE START OF INSTALLATION FOR THE VA APPROVAL AND A SUCCESSFUL REVIEW BY THE ARCHITECT ENGINEER.

10. PLUMBING CONTRACTOR SHALL VERIFY ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATION PRIOR TO ROUGH-IN. AS REQUIRED BY THE FEDERAL CODES AND/OR REGULATIONS ALONG WITH THE EXPRESSED DESIGN INTENT PRESENTED WITHIN THESE DOCUMENTS. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED INCORRECTLY.

11. DO ALL CUTTING AND PATCHING (TO ORIGINAL STATE) OF BUILDING MATERIALS AS REQUIRED TO PROVIDE A FINISHED PRODUCT THAT IS LIKE NEW AND DOESN'T STAND OUT AS BEING DIFFERENT OR DISTINGUISHABLE AS A PATCH OR REPAIR.

12. PLUMBING CONTRACTOR SHALL PROVIDE ALL SLEEVES THRU WALLS AND CORING THROUGH FLOORS.

13. PLUMBING CONTRACTOR SHALL PROVIDE AS-BUILT CONTRACT DOCUMENTS TO THE VA BEFORE FINAL PAYMENT WILL BE ISSUED. THE CONTRACT RECORD DOCUMENTS SHALL BE PROVIDED AS AUTOCAD DWG FILES.

14. UPON COMPLETION OF THE WORK, PLUMBING CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES. REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNCRATED OR REMOVED FROM CARTONS

15. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING SANITARY, STORM, AND WATER SUPPLY ON THE SITE PRIOR TO THE PERFORMANCE OF ANY WORK.

16. PROVIDE SERVICE VALVES AT ALL BRANCH SUPPLY PIPING. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS.

17. BEFORE PLACING WATER SYSTEM IN OPERATION, CHLORINATE ENTIRE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL PLUMBING CODES, SUPPLY CERTIFICATE.

19. ALL NEW SANITARY PIPING SHALL BE GIVEN A FULL STATIC PRESSURE TEST. METHOD OF TEST AND REQUIREMENTS TO BE MET SHALL BE AS PER THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL CODE REQUIREMENTS.

20. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PUMPING AND DRAINING OF TRENCHES OR PITS NECESSARY FOR THE INSTALLATION OF HIS WORK.

21. PLUMBING CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR ALONG WITH EQUIPMENT FURNISHED BY VA AND INSTALLED BY THIS CONTRACTOR FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.

22. DISINFECTION OF POTABLE WATER SYSTEM SHALL BE AS FOLLOWS: GENERAL: NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652 LISTED IN CHAPTER 19, OR AS DESCRIBED IN THIS SECTION. THIS REQUIREMENT SHALL APPLY TO "ONSITE" OR "IN-PLANT" FABRICATION OF A SYSTEM OR TO A MODULAR PORTION OF A SYSTEM.

    a. THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.

    b. THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION AT LEAST 50 PARTS PER MILLION (50 mg/l) OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER CHLORINE SOLUTION AT LEAST 200 PARTS PER MILLION (200mg/l) OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED

    c. WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.

    d. THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.

23. PIPING SERVICE MARKING: VINYL CLOTH PRESSURE SENSITIVE MARKERS BLACK LETTER ON WHITE BACKGROUND
    a. PIPES 3" AND LARGER SPACING 30'-0" O.C. PIPES 2 1/2" AND SMALLER SPACING 20'-0" O.C.
    b. INSTALL DIRECTIONAL ARROWS ON ALL PIPING AT SAME SPACING

24. PLUMBING CONTRACTOR TO VERIFY IN FIELD AND PROVIDE EXTENSIONS REQUIRED TO ADJUST ALL FIXTURES TO GRADE LEVEL TO MAINTAIN INVERTS AS DETERMINED BY ALL FIXTURES RELATED (GREASE TRAPS, MAN HOLES, ETC.)

# PLUMBING MATERIAL AND PROCEDURE NOTES:

1. REFER TO SPECIFICATION FOR PLUMBING MATERIALS AND INSULATION.

PROCEDURES:

1. ALL SUSPENDED HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS SPACED NO FURTHER THAN 8' – 0" APART (4' –0" APART FOR PVC PIPING). NO PIPING SHALL BE SELF-SUPPORTING NOR BE SUPPORTED FROM EQUIPMENT CONNECTIONS.

2. ALL PARALLEL PIPES (TWO(2) OR MORE) SHALL BE SUPPORTED ON A CHANNEL TYPE TRAPEZE HANGER.

3. SUPPORTS AND HANGERS SHALL BE INSTALLED TO PERMIT FREE EXPANSION AND CONTRACTION IN PIPING SYSTEMS UNLESS PIPE REQUIRES FIRM ANCHOR CONTROL.

4. HORIZONTAL SOIL OR WASTE LINES SHALL BE AT A SLOPE OF NOT LESS THAN 1/8" PER FOOT AND SHALL BE HELD CLOSE TO THE CONSTRUCTION TO MAINTAIN A MAXIMUM OF HEAD ROOM. ALL CHANGES OF DIRECTION AND JUNCTIONS SHALL BE MADE WITH "Y" FITTINGS AND 1/8" BENDS. NO LINES OF ANY KIND SHALL BE LOCATED BELOW FREEZERS. ALL DRAIN LINES SHALL BE PROTECTED FROM FREEZING.

5. HOT AND COLD WATER PIPING SHALL BE PROPERLY PITCHED TO LOW POINTS IN THE SYSTEM WHERE DRAINS SHALL BE INSTALLED.

6. CLEANOUTS SHALL BE PLACED AT ALL DEAD ENDS, AT CHANGES OF DIRECTION, AT 50'-0" INTERVALS ON HORIZONTAL RUNS, OUT OF HIGH TRAFFIC AREAS, (NOT UNDER CASES) ETC. WHERE CLEANOUTS OCCUR IN CONCEALED SPACES, THEY SHALL BE PROVIDED WITH EXTENSIONS TO FLOOR ABOVE OR TO WALLS. A HAND-HOLE TEST TEE SHALL BE PLACED AT THE BASE OF EACH STACK.

7. VENT STACKS EXTENDING UP THROUGH THE ROOF SHALL BE FLASHED WITH SIX POUND SHEET LEAD. FLASHING SHALL EXTEND 12" IN ALL DIRECTIONS FROM THE VENT, CARRIED OVER AND TURNED DOWN THE INSIDE OF THE VENT. ALL SEAMS AND JOINTS OF FLASHING SHALL BE SOLDERED AND PROVEN WEATHERTIGHT. EXTEND VENTS A MIN. OF 12" ABOVE ROOF, AND 30" AWAY FROM PARAPET.

8. ALL SUPPLY PIPING TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.

9. ALL SUPPLY PIPING TO BE A MINIMUM OF 3/4" DIA.

10. EACH FIXTURE WILL HAVE A 1/2" X 12" AIR CHAMBER.

11. PROVIDE SERVICE VALVE AT BRANCHES AND AT ALL APPLIANCES.

12. ALL FIXTURES WILL BE PROVIDE WITH INTEGRAL STOPS.

13. BURIED SANITARY AND WASTE LINES WILL BE A MINIMUM OF 4" DIA.

14. ALL FLOOR DRAINS AND FIXTURES TO BE VENTED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.

15. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FINISHED CEILINGS AND SLOPED UP TOWARD MAIN STACK.

16. THE PLUMBING CONTRACTOR WILL NOT INSTALL COMBUSTIBLE PIPING MATERIAL IN OR THROUGH FIRE RATED ASSEMBLIES.

17. HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" DIA. AND UNDER.

18. HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THEN 1/8" PER FOOT FOR PIPING 4" DIA. AND OVER.

19. ALL EQUIPMENT DEVICES SHALL BE INSTALLED WITH UNIONS IN SUCH A MANNER TO FACILITATE EASY REMOVAL AND MAINTENANCE OF EQUIPMENT WITHOUT DISRUPTING SERVICE AND CAUSING MAJOR PIPING REVISIONS.

20. ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.

# PLUMBING SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| CW | COLD WATER |
| HW | HOT WATER |
| HWC | HOT WATER RECIRCULATION |
| SAN | SANITARY |
| V | VENT |
| SK | SINK |
| CO | CLEAN OUT |
| | EQUIPMENT TAG |
| | CONNECT NEW DUCT TO EXISTING DUCT |
| | PIPE UP |
| | PIPE DOWN |
| CO | CLEAN OUT |
| | EXISTING PIPING |
| | NEW PIPING |

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
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Drawing Title: PLUMBING NOTES AND SYMBOLS

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: P-001

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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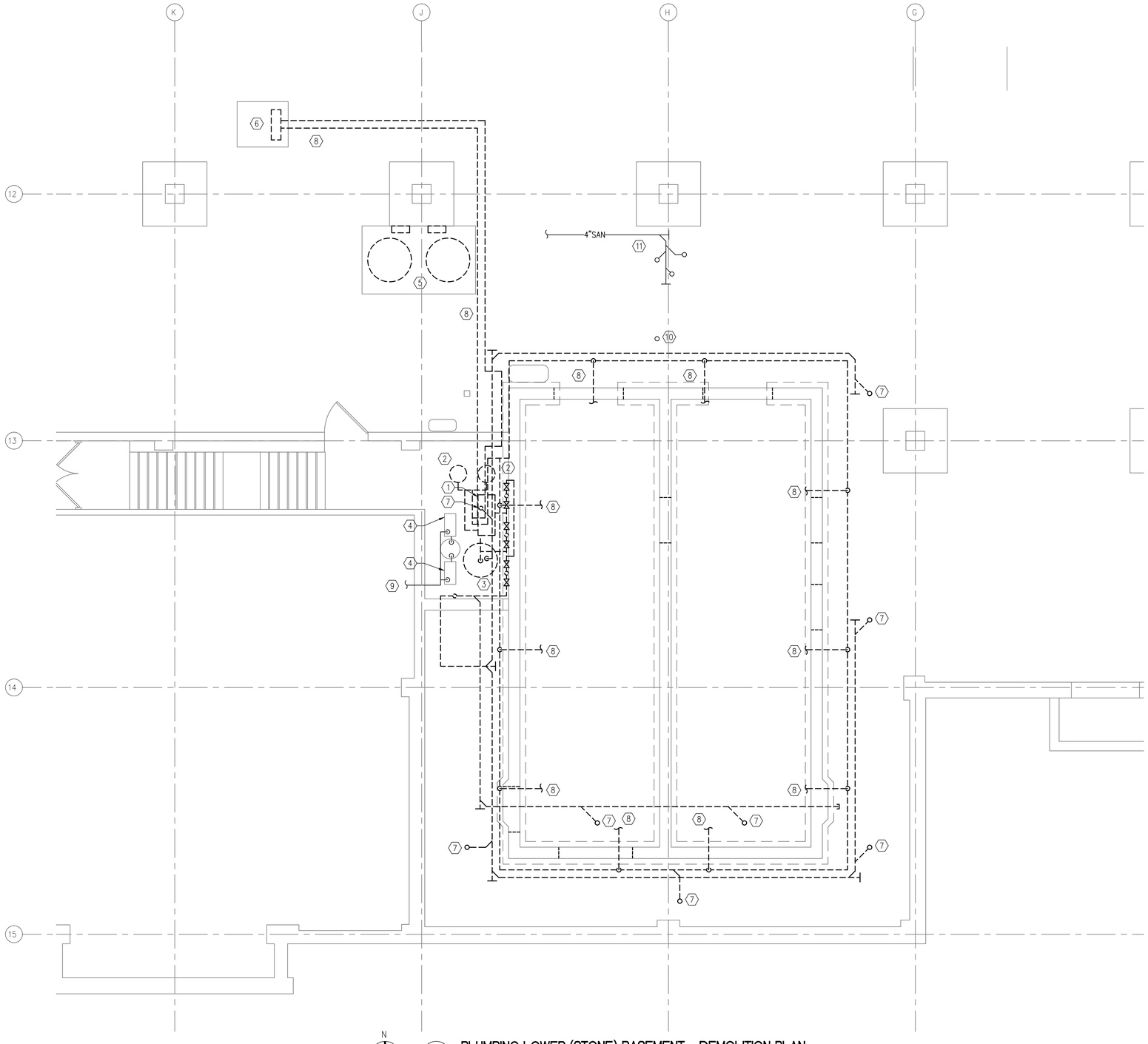
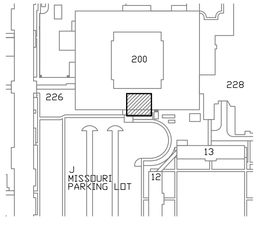



## PLUMBING KEY NOTES

1. DEMO AND REMOVE EXISTING POOL PUMP, PIPING, AND MISCELLANEOUS COMPONENTS AS SHOWN.
2. DEMO AND REMOVE EXISTING POOL FILTER TANKS, PIPING, AND MISCELLANEOUS COMPONENTS AS SHOWN.
3. DEMO AND REMOVE EXISTING TANK, PIPING, AND MISCELLANEOUS COMPONENTS AS SHOWN.
4. EXISTING PIT PUMP, PIPING, AND MISCELLANEOUS COMPONENTS TO REMAIN.
5. DEMO AND REMOVE EXISTING TANK, PIPING, AND MISCELLANEOUS COMPONENTS AS SHOWN.
6. DEMO AND REMOVE EXISTING PARTIAL HEAT EXCHANGER, PIPING, AND MISCELLANEOUS COMPONENTS AS SHOWN.
7. DEMO AND REMOVE EXISTING FLOOR DRAIN, SANITARY PIPING, AND MISCELLANEOUS COMPONENTS AS SHOWN.
8. DEMO AND REMOVE ALL POOL PIPING BACK TO MECHANICAL ROOM AS SHOWN.
9. EXISTING SANITARY PIPING TO REMAIN.
10. EXISTING FLOOR DRAIN TO REMAIN. DEMO AND REMOVE SANITARY PIPING AND MISCELLANEOUS COMPONENTS AS SHOWN. PREPARE FLOOR DRAIN FOR NEW PIPING CONNECTION.
11. EXISTING SANITARY PIPING TO REMAIN.

N

A PLUMBING LOWER (STONE) BASEMENT - DEMOLITION PLAN
1/4"=1'-0"

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KEY PLAN
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VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: PLUMBING LOWER (STONE) BASEMENT-DEMOLITION PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

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Building Number: 200

Drawing Number: PD-100

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Department of Veterans Affairs

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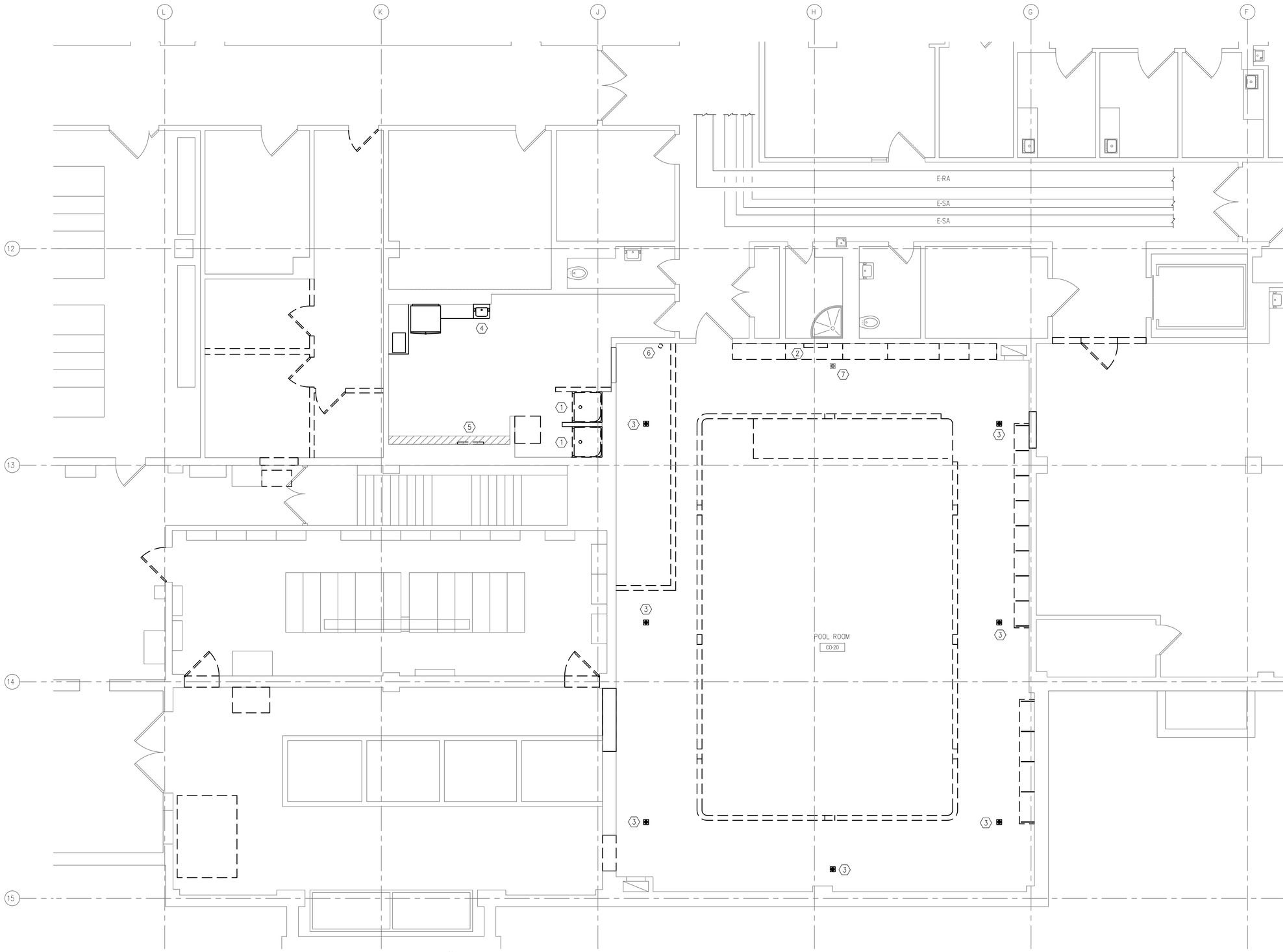
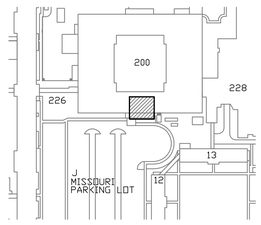



## PLUMBING KEY NOTES

1. DEMO AND REMOVE EXISTING SHOWER, SHOWER BASIN, DOMESTIC WATER PIPING, SANITARY, AND VENT PIPING BACK TO MAIN. CAP AND SEAL ALL PIPING.
2. DEMO AND REMOVE EXISTING WATER COOLER, COLD WATER, SANITARY, AND VENT PIPING BACK TO MAIN CAP AND SEAL ALL PIPING.
3. DEMO AND REMOVE EXISTING FLOOR DRAIN. PATCH AND FILL OPENING REFER TO ARCHITECTURAL DRAWING FOR MORE DETAILS.
4. DEMO AND REMOVE EXISTING SINK, DOMESTIC WATER PIPING, SANITARY, AND VENT PIPING BACK TO MAIN. CAP AND SEAL ALL PIPING.
5. DEMO AND REMOVE EXISTING DOMESTIC WATER STUB, SANITARY, AND VENT PIPING BACK TO MAIN. CAP AND SEAL PIPING.
6. DEMO AND REMOVE EXISTING DOMESTIC WATER BACK TO MAIN. CAP AND SEAL ALL PIPING.
7. EXISTING FLOOR DRAIN TO REMAIN. PREPARE FLOOR DRAIN FOR NEW PIPING CONNECTION.

N

A PLUMBING FLOOR PLAN - DEMOLITION WORK
1/4"=1'-0"

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KEY PLAN
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VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: PLUMBING BASEMENT-DEMOLITION PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

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Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

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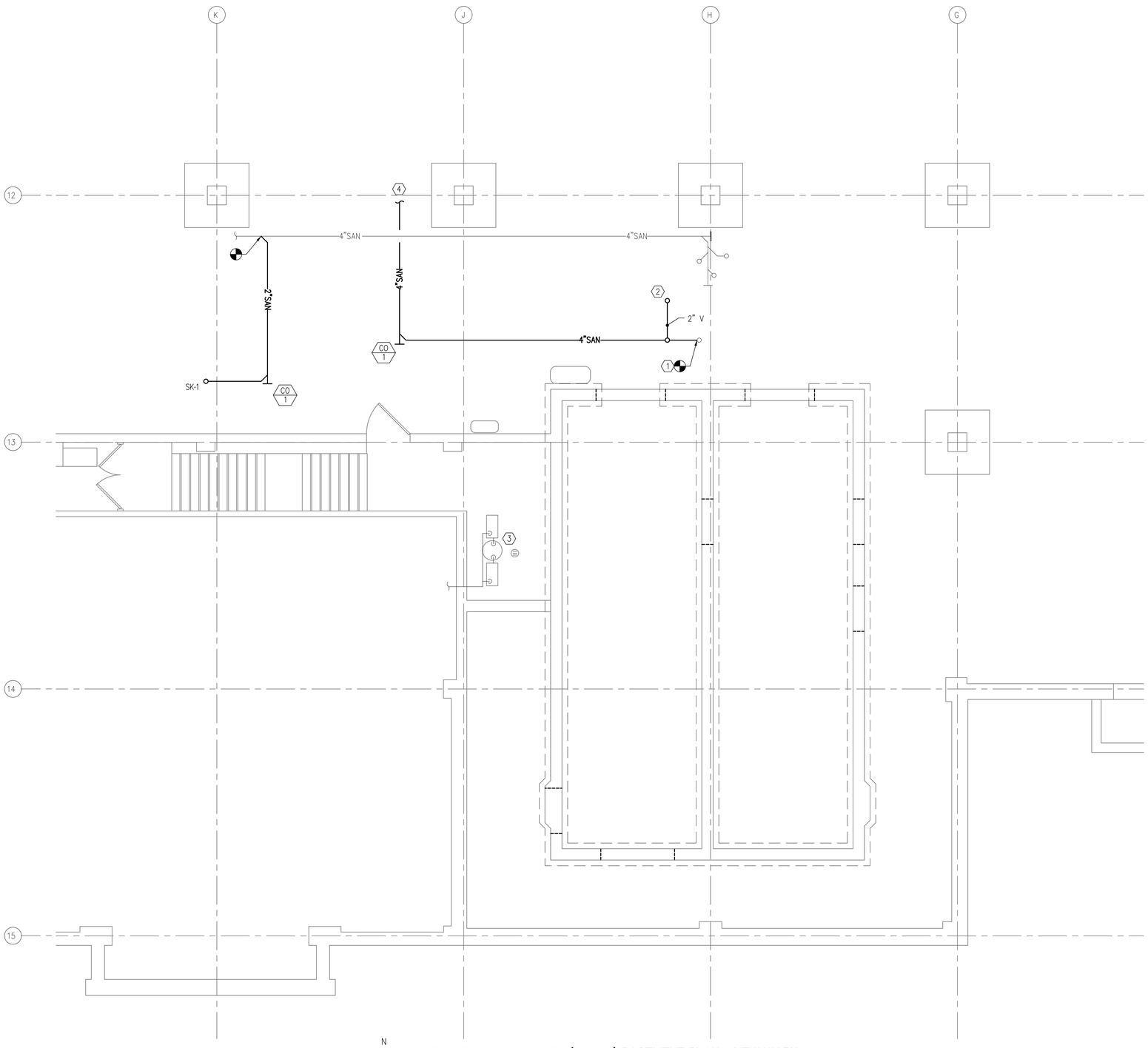



## PLUMBING KEY NOTES

1. CONNECT NEW 4" SANITARY PIPING TO EXISTING FLOOR DRAIN.
2. PROVIDE 2" VENT FROM THE FLOOR ABOVE. TIE VENT PIPING TO EXISTING STACK SERVING THE BATHROOM ABOVE.
3. EXISTING PUMPS AND SANITARY PIPING TO REMAIN.
4. ROUTE AND CONNECT NEW 4" SANITARY PIPING TO EXISTING VERTICAL RISER BETWEEN COLUMN K & J.

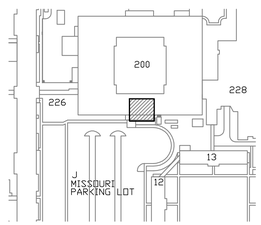
CO-1

BRONZE CLEANOUT PLUG, TAPERED THREAD PLUG, SECURE NICKEL BRONZE TOP SIMILAR TO ZURN 1470 OR VA APPROVED EQUAL.

N

A PLUMBING LOWER (STONE) BASEMENT PLAN - NEW WORK

1/4"=1'-0"

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Drawing Title: PLUMBING LOWER (STONE) BASEMENT PLAN-NEW WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: P-100

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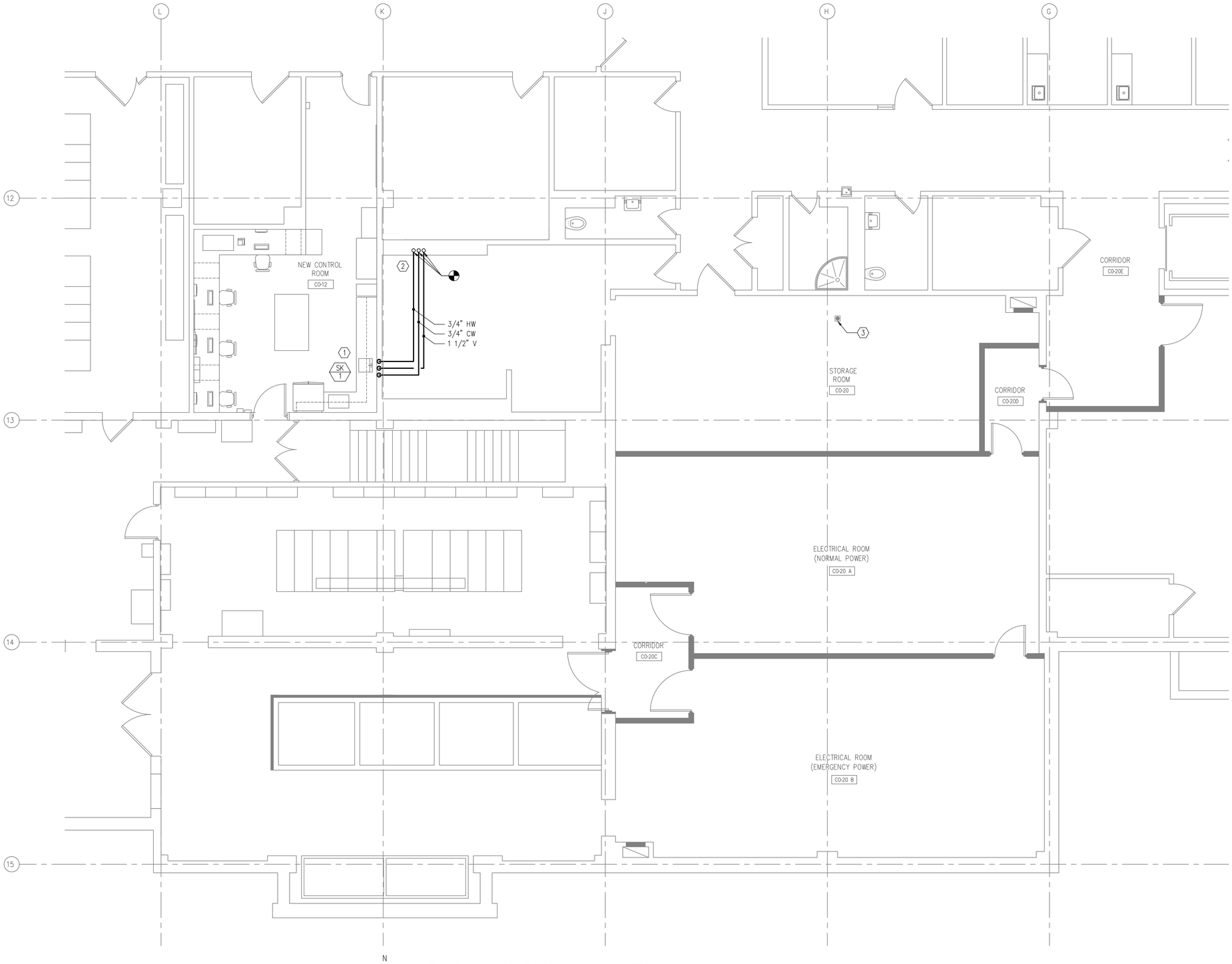



## PLUMBING KEY NOTES

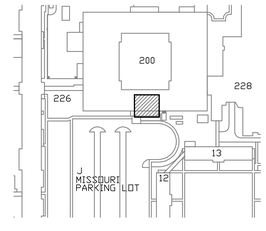
1. FURNISH AND INSTALL NEW STAINLESS STEEL SINK WITH ALL THE ASSOCIATED PIPING.
2. ROUTE PIPING FROM EXISTING CHASE TO SERVE NEW STAINLESS STEEL SINK 3/4" CW, 3/4" HW, 2" SAN, AND 1 1/2" V.
3. EXISTING FLOOR DRAIN TO REMAIN. PROVIDE NEW 4" INLINE DRAIN TRAP SEALER COMMERCIAL GRADE UV AND OZONE RESISTANT ABS PLASTIC HOUSING WITH PROPRIETARY EPDM RUBBER DIAPHRAGM AND SOFT RUBBER SEALING GASKET SIMILAR TO RECTOR SEAL MODEL SS4009V OR VA APPROVED EQUAL.

SK-1

TOP MOUNTED SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL. OVERALL DIMENSION 17"x16", INSIDE BOWL DIMENSION 14"x10"x4 1/2", FULLY UNDERCOATED, 3 1/2" DIAMETER DRAIN OUTLET, REMOVABLE STRAINER WITH NEOPRENE STOPPER.

TRIM: DECK MOUNTED 4" FIXED CENTERS SINGLE LEVER HOT AND COLD WATER MIXING SINK FAUCET. CHROME PLATED SOLID BRASS CONSTRUCTION. 4 3/4" CENTER TO CENTER INTEGRAL CAST BRASS SPOUT. 2 3/4" METAL LEVEL HANDLE WITH 3/8" COMPRESSION FLEXIBLE STAINLESS STEEL SUPPLY HOSES. MAXIMUM FLOW 2.2 GPM AERATOR. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

A PLUMBING FLOOR PLAN - NEW WORK
1/4"=1'-0"




KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: PLUMBING FLOOR PLAN-NEW WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

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Building Number: 200

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# MECHANICAL GENERAL NOTES:

1. THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL PLUMBING, ALL FIRE PROTECTION, ALL ELECTRICAL DRAWINGS AND ENTIRE PROJECT MANUAL. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL CHARGE TO THE OWNER.

2. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE OWNER AND THE ARCHITECT AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF THEIR TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTING CONDITIONS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

4. THIS CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, ON THE DRAWINGS WITHOUT DEVIATION. THIS CONTRACTOR IS INVITED TO SUBMIT SUBSTITUTIONS FROM THE BASE BID, ONLY IF THE SUBSTITUTIONS ARE APPROVED BY THE OWNER / COORDINATE AND SUCCESSFULLY REVIEWED BY THE ARCHITECT, PRIOR TO SUBMITTING THE BID.

5. IT IS THE INTENT OF THESE DOCUMENTS THAT THE MECHANICAL CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET NEW SYSTEMS INTO OPERATION.

6. SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, OR IF DUCTWORK CAN BE RUN TO BETTER ADVANTAGE, PREPARE AND SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY THE OWNER AND SUCCESSFULLY REVIEWED BY THE ARCHITECT, THEY SHALL BECOME A PART OF THE CONTRACT AFTER THEIR APPROVAL.

7. THIS CONTRACTOR SHALL VERIFY ALL MOUNTING, ALL ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, WEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.

8. AN INDEPENDENT BALANCING CONTRACTOR SHALL BE A SUBCONTRACTOR OF THE MECHANICAL CONTRACTOR AND SHALL BE RESPONSIBLE FOR BALANCING ALL NEW AND EXISTING DUCTWORK SYSTEMS RELATED TO THE PREMISES. SUCH BALANCING SHALL BE PERFORMED BY A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL AND NATIONAL ENVIRONMENTAL BALANCING BUREAU. SUBMIT THE REQUIRED COPIES OF THE AIR BALANCING REPORT TO THE OWNER FOR APPROVAL AND SUCCESSFUL REVIEW BY THE ARCHITECT. CONTAINING THE FOLLOWING INFORMATION:

   A. READING AND TESTS OF ALL AIR DEVICES SHALL INCLUDE REQUIRED VELOCITIES (FPM) TEST RESULTANT VELOCITIES, REQUIRED CAPACITIES (CFM) AND TEST RESULTANT CAPACITIES AFTER ADJUSTMENTS.

   B. IDENTIFY EACH AIR DEVICE BY LOCATION. TYPE AND SIZE.

   C. TEST AND ADJUST EACH AIR DEVICE TO WITHIN 10% OF DESIGN.

9. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TEMPERATURE CONTROL SYSTEM AS REQUIRED.

10. ALL THERMOSTATS SHALL BE MOUNTED AT +54" ABOVE FINISHED FLOOR (UNLESS OTHERWISE SPECIFIED). THERMOSTATS SHALL NOT INTERFERE WITH SHELVING, VENDING MACHINES, OTHER FIXTURES OR CONTROLS.

11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT FEDERAL BUILDING CODES, REGULATIONS, AND REQUIREMENTS, LOCAL UTILITY COMPANY REQUIREMENTS, AND ASHRAE STANDARDS.

12. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.

13. THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR THE PERIOD AS REQUIRED IN THE SPECIFICATIONS. FROM FINAL ACCEPTANCE BY THE OWNER/ COR.

14. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, IN., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

15. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR AND EQUIPMENT FURNISHED BY OWNER FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.

16. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED IN THE SPECIFICATIONS PRIOR TO THE START OF INSTALLATION FOR OWNER / COR APPROVAL AND THE SUCCESSFUL REVIEW BY THE ARCHITECT.

17. THIS CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE OWNER BEFORE FINAL PAYMENT WILL BE ISSUED. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED IN REPRODUCIBLE FORM.

18. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE STARTUP OF ALL HEATING, VENTING, AND AIR-CONDITIONING EQUIPMENT.

19. THIS CONTRACTOR SHALL PROVIDE A COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE NEW EQUIPMENT.

20. UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES. REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.

# MECHANICAL EQUIPMENT NOTES:

1. EQUIPMENT SHALL BE MANUFACTURER SPECIFIED.
2. ALL EQUIPMENT/DEVICES SHALL BE NEW AND OF FIRST RATE QUALITY (UNLESS OTHERWISE SPECIFIED) AND IS TO BEAR THE APPROPRIATE AGA, CSA OR UL APPROVED LABELS, LISTINGS, AND CERTIFICATIONS FOR THE SPECIFIC DESIGN PURPOSE.
3. ALL EQUIPMENT SOUND LEVELS SHALL NOT EXCEED 50 DB AT PROPERTY LINE.
4. ALL INTERCONNECTING WIRING AT UNIT SHALL BE FACTORY PREWIRED AND REQUIRE ONLY ONE (1) POWER CONNECTION TO THE UNIT BY THE ELECTRICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE BY THE ELECTRICAL CONTRACTOR.
5. SUBMIT THE REQUIRED NUMBER OF COPIES OF EACH CATALOG CUT, FOR THE EQUIPMENT SPECIFIED, TO THE OWNER/COR FOR APPROVAL AND TO THE ARCHITECT FOR APPROVAL HIS/HER SUCCESSFUL REVIEW PRIOR TO THE BEGINNING OF CONSTRUCTION. THIS CONTRACTOR SHALL ALSO ASSEMBLE PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEEM INSTALLED AND BIND TOGETHER WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS. SUMBIT THE REQUIRED NUMBER OF COPIES TO THE ARCHITECT FOR HIS/HER SUCCESSFUL REVIEW.
6. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL MEMBERS, SLEEVES, AND SHIMS REQUIRED TO LEVEL AND SUPPORT EQUIPMENT, ROOF CURBS AND EQUIPMENT SUPPORTS.

## CONTROLS

| | |
|---|---|
| AI | ANALOG INPUT |
| AO | ANALOG OUTPUT |
| BI | BINARY INPUT |
| BO | BINARY OUTPUT |
| CT | CURRENT TRANSMITTER |
| EP | POWER WIRING |
| (T) | THERMOSTAT |
| [T] | TEMPERATURE SENSOR |

# MECH. MATERIAL AND PROCEDURE NOTES:

## DUCTWORK:

1. ALL DUCTWORK SHALL BE FABRICATED FROM GALVANIZED METAL IN ACCORDANCE WITH SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION, DUCT SIZES SHOW INDICATE INSIDE DIMENSIONS.
2. ALL BRANCHES FROM THE MAIN LOW PRESSURE TRUNK SHALL BE FURNISHED AND INSTALLED WITH A SPLITTER DAMPER OR SIMILAR BALANCING DEVICE IN GENERAL ACCORDANCE WITH THE STANDARDS OF THE ASSOCIATED AIR BALANCE COUNCIL.
3. INSTALL FLEXIBLE CANVAS CONNECTION BETWEEN MECHANICAL EQUIPMENT AND SHEET METAL DUCTWORK. CANVAS NOT TO EXCEED 10" IN LENGTH.
4. ALL DUCTWORK ACCESS DOORS SHALL BE OF SUFFICIENT SIZE TO PERMIT EASY ACCESS AND THE SERVICING OF DAMPERS, CONTROLS, DEVICES, ETC. ACCESS DOORS SHALL BE VENTLOK COMPLETE WITH #50 HINGES WITH BRASS PINS, #100 LATCHES, DOOR GASKETS, ETC. DOORS LOCATED IN INSULATED DUCTWORK SHALL HAVE 1/2" THICK FIBERGLASS INSULATION BETWEEN TWO THICKNESS OF SHEET METAL.
5. DUCTWORK SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS REGARDING FIRE STOPPING, PROOFING AND DAMPERING. ACCESS DOORS OF SUFFICIENT SIZE FOR EASY ACCESS AND SERVICING SHALL BE PROVIDED AT ALL FIRE DAMPERS.
6. AIR VELOCITY IN LOW PRESSURE MAIN SUPPLY TRUNKS SHALL NOT EXCEED 2000 FPM, IN SUPPLY BRANCHES VELOCITY SHALL NOT EXCEED 1000 FPM, AND IN RETURN AIR DUCT VELOCITY SHALL NOT EXCEED 800 FPM.
7. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX TYPE S-LP-10. LENGTHS SHALL NOT EXCEED 5'-0". FLEXIBLE DUCTWORK SHALL MEET THE REQUIREMENTS OF UL 181 AND NFPA 90A, AND BE SUITABLE FOR DUCT STATIC PRESSURE OF A MINIMUM OF +10" W.C. DUCT SIZES SHOWN ON DRAWINGS FOR FLEXIBLE DUCTWORK ARE INSIDE DIMENSIONS. ALL DIFFUSER CONNECTIONS SHALL HAVE THREE SHEET METAL SCREWS THROUGH HELIX OF FLEXIBLE DUCT, BAND CLAMP & SILVER ALUM.TAPED

## DUCT INSULATION:

1. ALL SUPPLY AND RETURN DUCTWORK FROM HEATING/COOLING UNITS SHALL BE WRAPPED WITH 1 LB/FT DENSITY, 1-1/2" THICK FIBERGLASS DUCT INSULATION. WITH A "K" FACTOR OF 0.21 OR LESS. INSULATION SHALL BE PROVIDED WITH A KRAFT VAPOR JACKET, AND BE CHEMICALLY TREATED FOR FLAME SAFETY.
2. ALL SUPPLY AND RETURN DUCTWORK FROM HEATING/COOLING UNITS SHALL BE WRAPPED WITH 1.5 LB/FT DENSITY, 2" THICK FIBERGLASS DUCT INSULATION. WITH A "K" FACTOR OF 0.21 OR LESS. INSULATION SHALL BE PROVIDED WITH A KRAFT VAPOR JACKET, AND BE CHEMICALLY TREATED FOR FLAME SAFETY.-IN MECHANICAL ROOMS

## GRILLES, REGISTERS, AND DIFFUSERS:

1. SUPPLY REGISTERS AND DIFFUSERS SHALL BE FURNISHED AND INSTALLED WITH OPPOSED BLADE DAMPER AND HAVE FACE VELOCITY NOT TO EXCEED 500 FPM.
2. AIR DEVICES SHALL BE AS MANUFACTURED BY TITUS, METALAIRE OR CARNES. MODEL NUMBERS ARE BASED ON TITUS.
3. SUPPLY AIR REGISTERS MODEL 300RL, VOLUME DAMPER, HEAVY GAUGE STEEL, WITH A BAKED ON ENAMEL STANDARD WHITE FINISH.
4. RETURN AND EXHAUST AIR GRILLES MODEL 350RL, HEAVY GAUGE STEEL, WITH A BAKED ON ENAMEL STANDARD WHITE FINISH.

## REFRIGERANT PIPING AND INSULATION:

1. REFRIGERANT PIPING SHALL BE TYPE L HARD COPPER ACR TUBING WITH WROUGHT COPPER, SOLDER JOINT FITTINGS, SILVER SOLDERED.
2. ALL REFRIGERANT PIPING SHALL BE INSULATED EXCEPT WHERE THE UNINSULATED AREA DOES NOT RESULT IN AN ENERGY LOSS TO THE SYSTEM OR AN ADVERSE EFFECT TO THE SYSTEM FROM STRAY HEAT. PIPE INSULATION SHALL BE 3/4" THICK ON INTERIOR PIPING AND 1" ON EXTERIOR PIPING. INSULATED PIPING EXPOSED TO WEATHER SHALL BE ALL WEATHER SERVICE JACKET FOR OUTDOOR.

# BASIS OF DESIGNS

A. GENERAL

THE SCOPE OF THIS PROJECT IS TO REPLACE THE EXISTING POOL ROOM BELOW GRADE WITH TWO ELECTRICAL SWITCH GEAR ROOMS ONE WITH NORMAL AND ONE WITH EMERGENCY POWER.

PROVIDE HVAC TO HANDLE THE REQUIRED COOLING LOAD TO SWITCH GEAR ROOMS.

ALSO PROVIDE COOLING TO THE NEWLY CREATED STORAGE ROOM CO-20 AND CORRIDORS CO-20D AND CO-2E.

B. EXISTING CONDITIONS/DEMOLITION

CURRENTLY THE EXISTING POOL ROOM DOES NOT HAVE AIR HANDLING UNIT SERVING THE SPACE. THERE IS AN EXHAUST FAN THAT SERVES THE POOL ROOM THAT WILL BE DISCONNECTED AND ABANDONED IN PLACE. EXISTING EXHAUST GRILLES AND DUCTWORK IN THE POOL ROOM SHALL BE DEMOLISHED AND REMOVED DOWN TO THE FLOOR BELOW AND ALL DUCTWORK SHALL BE CAPPED AND SEALED. THERE ARE SIX GRILLES IN THE POOL ROOM THAT SHALL BE DEMOLISHED AND REMOVED ALONG WITH DUCTWORK BACK TO THE MAIN WITHIN THE PROJECT AREA. DEMO AND REMOVE PUMPS, PIPES, FLOOR DRAINS, AND CONTROLS ASSOCIATED WITH THE POOL ROOM.

THE EXISTING TERMINAL BOX SERVING EQUIPMENT STORAGE ROOMS AND THE PIPE SHOP SHALL REMAIN. HOWEVER, THE SUPPLY DUCT SERVING THE EQUIPMENT STORAGE ROOMS SHALL BE DEMOLISHED AND REMOVED WHILE THE SUPPLY BRANCH SERVING THE PIPE SHOP SHALL BE PARTIALLY DEMOLISHED.

C. DESIGN CRITERIA

THE MECHANICAL DESIGN FOR THIS PROJECT IS BASED ON, BUT NOT LIMITED TO, THE FOLLOWING PUBLICATIONS, CODES, SPECIFICATIONS, ETC.:

- VA HVAC DESIGN MANUAL 2011
- VA STANDARD DETAILS (H-08-04)
- INTERNATIONAL MECHANICAL CODE (IMC)
- ASHRAE STANDARD 170, VENTILATION OF HEALTH CARE FACILITIES.

D. DESIGN CONDITIONS

OUTDOOR DESIGN WEATHER CONDITIONS ARE BASED ON ENGINEERING WEATHER DATA FROM VA HVAC DESIGN MANUAL FOR CHICAGO O'HARE INTL AP. WINTER DESIGN CONDITION IS THE 99.6% OCCURRENCE DESIGN VALUE. SUMMER DESIGN CONDITION IS THE 0.4% OCCURRENCE DESIGN VALUE. INDOOR DESIGN CONDITION ARE BASED ON VA HVAC DESIGN MANUAL 2011.

OUTDOOR DESIGN CONDITIONS:
SUMMER: 92.1° F (db), 74.9° F (wb)
WINTER: -6° F (db)

INDOOR DESIGN CONDITIONS:
SUMMER: 80° F (db)
WINTER: 40° F

E. HVAC SYSTEM DESCRIPTION

THE ELECTRICAL SWITCH GEAR ROOMS WILL BE COOLED WITH DUCTLESS MINI-SPLIT CEILING MOUNTED FAN COIL UNITS. FCU-1 AND FCU-2 WILL PROVIDE COOLING (3.5 TON EACH) TO THE NORTH SWITCH GEAR ROOM WHILE FCU-3 AND FCU-4 WILL PROVIDE COOLING (3.5 TON EACH) TO THE SOUTH SWITCH GEAR ROOM. ALL FAN COIL UNITS WILL BE EQUIPPED WITH CONDENSATE PUMP AND 1" THICK MERV 8 FILTERS.

THE ASSOCIATED AIR COOLED CONDENSER FOR EACH FAN COIL UNIT WILL BE LOCATED AT THE LOWER LEVEL.

THE STORAGE ROOM CO-20 AND CORRIDORS CO-20D AND CO-20E WILL BE SERVED WITH A DUAL DUCT TERMINAL UNIT DDT-1.

F. DDC CONTROLS

MANUFACTURER'S PROGRAMMABLE THERMOSTAT WILL BE PROVIDED WITH THESE UNITS AND WILL BE MOUNTED IN THE SPACE TO MONITOR AND CONTROL THE ROOM TEMPERATURES.

# MECHANICAL SYMBOL LIST

| SYMBOL | DESCRIPTION |
|---|---|
| FCU-# | FAN COIL UNIT |
| ACCU-# | AIR COOLED CONDENSING UNIT |
| CFM | CUBIC FEET OF AIR PER MINUTE |
| DIFF | DIFFUSER |
| EA | EACH |
| ESP | EXTERNAL STATIC PRESSURE |
| FBO | FURNISHED BY OTHERS |
| GR | GRILLE |
| MVD | MANUAL VOLUME DAMPER |
| REG | REGISTER |
| TSP | TOTAL STATIC PRESSURE |
| DDT | DUAL DUCT TERMINAL |
| E-SA | EXISTING - SUPPLY AIR |
| E-RA | EXISTING - RETURN AIR |
| 10x8 | NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH) |
| | MANUAL VOLUME DAMPER |
| | EQUIPMENT TAG |
| L | LIQUID LINE |
| S | SUCTION LINE |
| | REDUCER |
| X / X / XXX | REGISTER / GRILLE / DIFFUSER TYPE<br>CONNECTION SIZE<br>CFM |
| UP | SUPPLY DUCT (UP & DOWN) |
| UP DN | RETURN DUCT (UP & DOWN) |
| DN | CONNECT NEW DUCT TO EXISTING DUCT |
| | LIMIT OF DEMOLITION |
| | ROUND AND SQUARE 4-WAY CEILING DIFFUSERS |
| | VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING) |
| | STANDARD RADIUS ELBOW (LONG RADIUS) |
| | EXISTING DUCT TO REMAIN |
| | ROUND DIFFUSER |

VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: MECHANICAL NOTES AND SYMBOLS

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: M-001

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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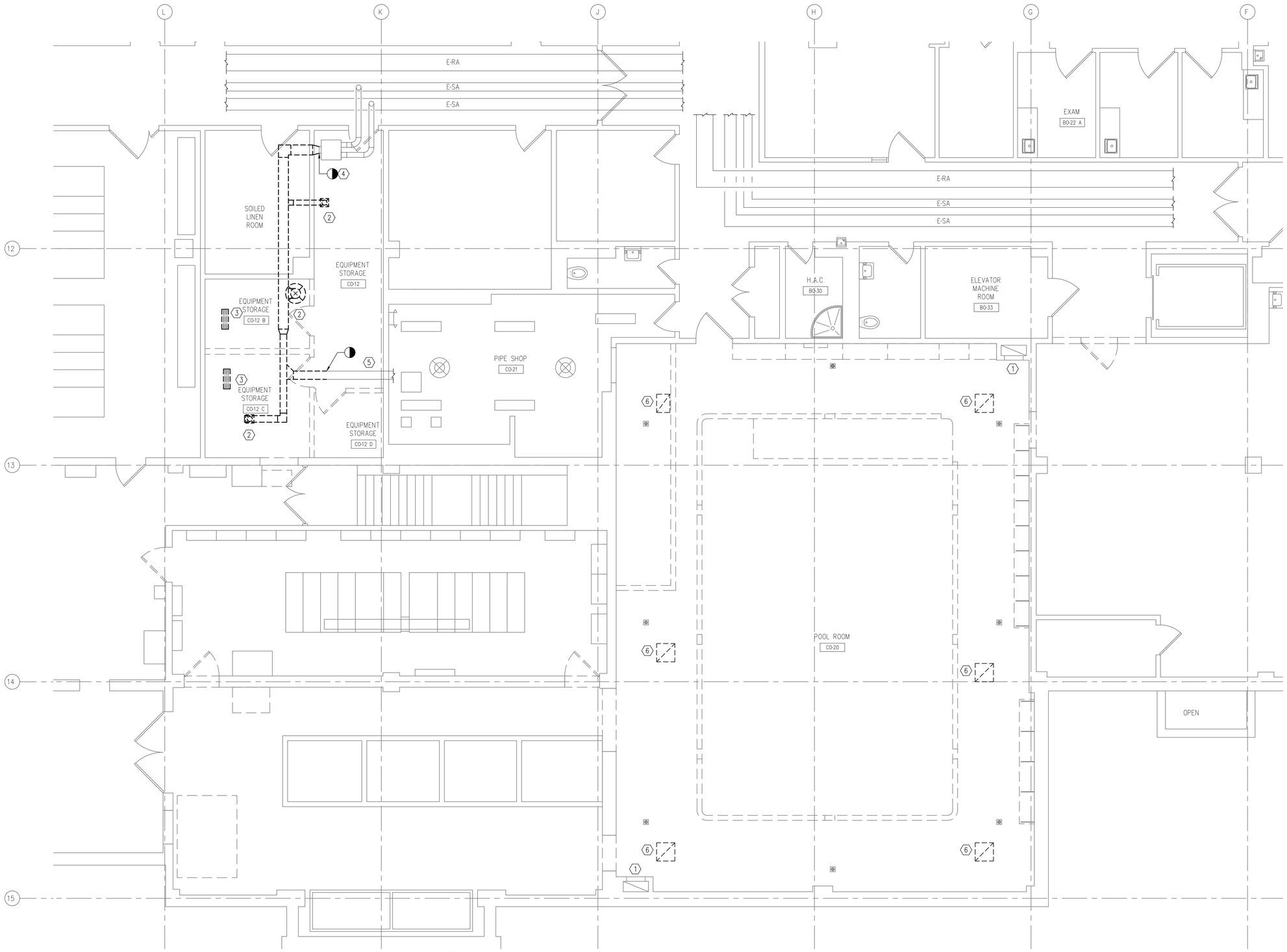


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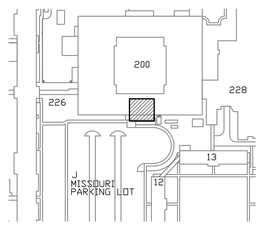
A MECHANICAL FLOOR PLAN - DEMOLITION WORK
1/4"=1'-0"

## MECHANICAL GENERAL NOTES

1. DEMO AND REMOVE ALL DIFFUSER/GRILL, PIPING, AND ALL MECHANICAL EQUIPMENT SERVING PROJECT AREA.
2. DISCONNECT AND ABANDON EXISTING EXHAUST FAN IN PLACE SERVING THE POOL SPACE.

## (X) MECHANICAL KEY NOTES

1. DEMO AND REMOVE EXISTING EXHAUST GRILLE AND DUCT WORK DOWN TO THE FLOOR BELOW. CAP AND SEAL ALL DUCTWORK.
2. DEMO AND REMOVE EXISTING SUPPLY GRILLE, ALL ASSOCIATED CONTROLS, AND DUCTWORK BACK TO TERMINAL BOX. PREPARE TERMINAL BOX FOR NEW CONNECTION.
3. DEMO AND REMOVE EXISTING EXHAUST GRILLE AND ALL ASSOCIATED DUCT WORK BACK TO MAIN. CAP AND SEAL ALL DUCTWORK.
4. EXISTING TERMINAL BOX TO REMAIN.
5. EXISTING DUCTWORK AND DIFFUSER SERVING EXISTING SPACE TO REMAIN. PREPARE DUCTWORK FOR NEW CONNECTION.
6. DEMO AND REMOVE GRILLE AND DUCTWORK BACK TO MAIN WITHIN PROJECT AREA. CAP AND SEAL DUCTWORK AS NEEDED. PATCH AND SEAL ANY OPENING TO MATCH EXISTING CONDITIONS.

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KEY PLAN
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VA CONTRACT NO. VA69D-13-C-0324

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Drawing Title: MECHANICAL FLOOR PLAN-DEMOLITION WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: MD-101

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Department of Veterans Affairs

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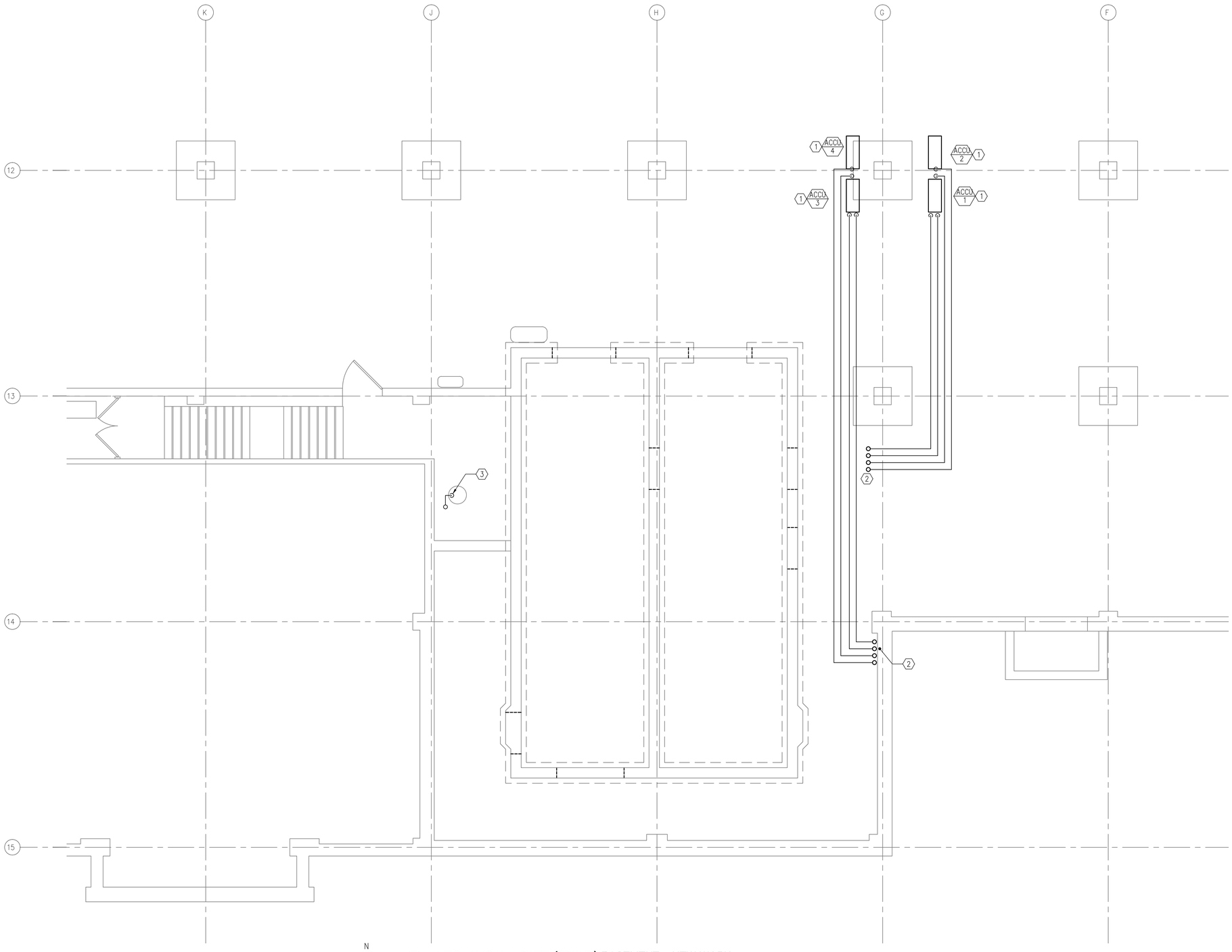


## MECHANICAL KEY NOTES

1. FURNISH AND INSTALL NEW AIR-COOLED CONDENSING UNIT PER THE MANUFACTURER'S INSTALLATION INSTRUCTION. PROVIDE MAINTENANCE AND CLEARANCE ACCESS PER MANUFACTURER'S INSTALLATION. PROVIDE NEW PRECAST CONCRETE PAD.
2. ROUTE REFRIGERANT PIPING FROM AIR-COOLED CONDENSING UNIT TO ITS ASSOCIATED COOLING UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATION.
3. ROUTE 1 1/2" CONDENSATE DRAIN INTO EXISTING PIT.

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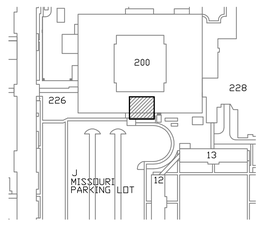
A MECHANICAL LOWER (STONE) BASEMENT - NEW WORK
1/4"=1'-0"

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KEY PLAN
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Drawing Title: MECHANICAL LOWER (STONE) BASEMENT PLAN-NEW WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: M-100

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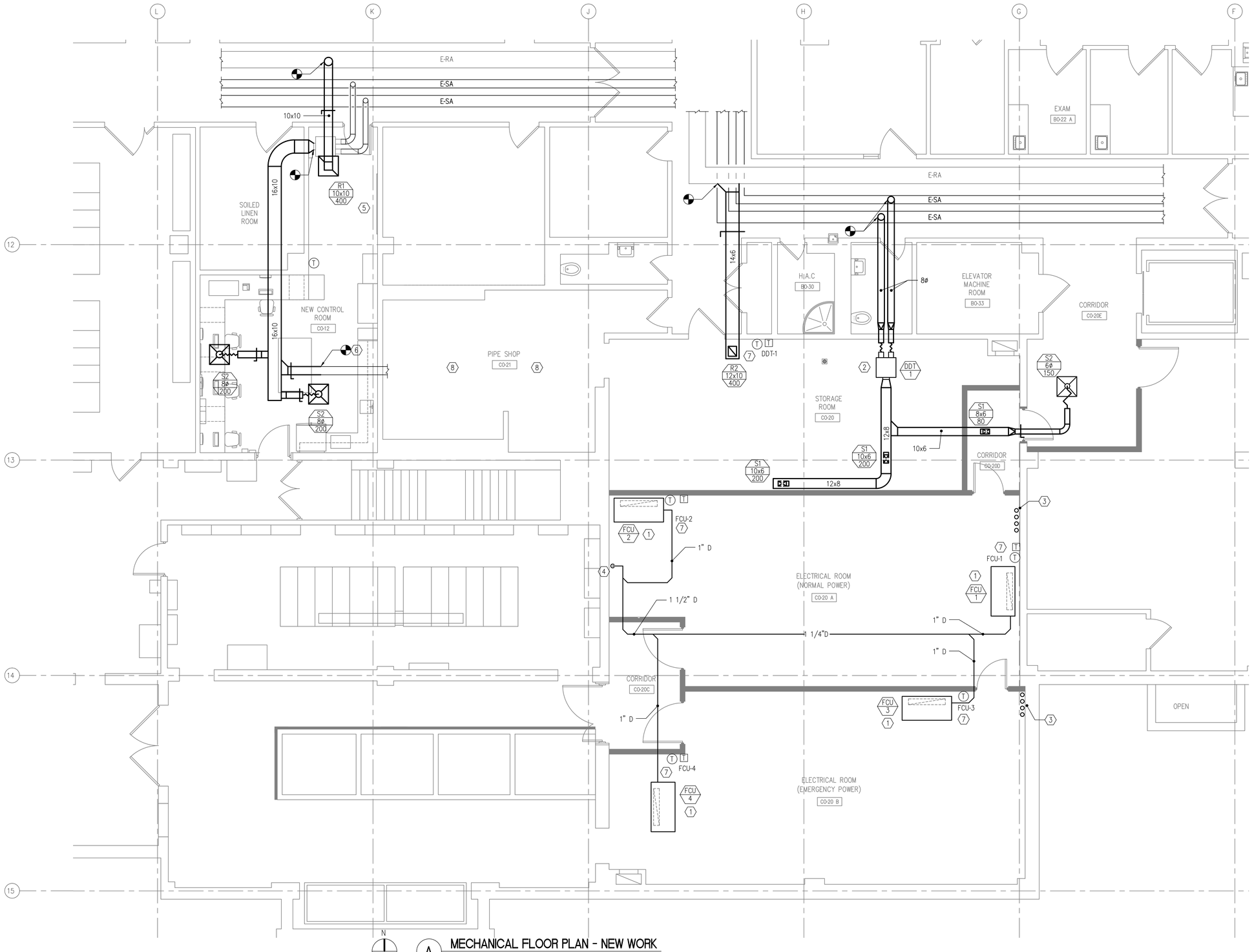
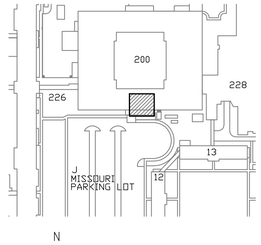



A MECHANICAL FLOOR PLAN - NEW WORK
1/4"=1'-0"

## X MECHANICAL KEY NOTES

1. FURNISH AND INSTALL NEW CEILING MOUNTED FAN COIL UNIT PER THE MANUFACTURER'S INSTALLATION INSTRUCTION. PROVIDE MAINTENANCE AND CLEARANCE ACCESS PER MANUFACTURER'S INSTALLATION.
2. FURNISH AND INSTALL NEW DUAL DUCT TERMINAL BOX PER THE MANUFACTURER'S INSTALLATION INSTRUCTION. PROVIDE MAINTENANCE AND CLEARANCE ACCESS PER MANUFACTURER'S INSTALLATION.
3. ROUTE REFRIGERANT PIPING AS SHOWN TO ITS ASSOCIATED COOLING UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATION. DETAIL #13/A-501
4. ROUTE 1 1/2" CONDENSATE DRAIN DOWN TO LOWER LEVEL AND DRAIN INTO EXISTING PIT.
5. PROVIDE NEW PROGRAMMABLE THERMOSTAT TO CONTROL EXISTING TERMINAL BOX. PROVIDE ALL NECESSARY WIRING FOR CONTROL.
6. ROUTE AND CONNECT NEW SUPPLY DUCTWORK TO EXISTING DUCTWORK. MATCH EXISTING DUCTWORK SIZE.
7. PROVIDE NEW PROGRAMMABLE THERMOSTAT TO CONTROL MECHANICAL EQUIPMENT. PROVIDE ALL NECESSARY WIRING FOR CONTROL.
8. EXISTING SUPPLY DIFFUSER TO REMAIN.




KEY PLAN
NTS

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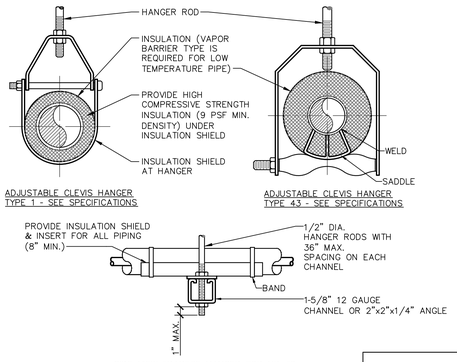
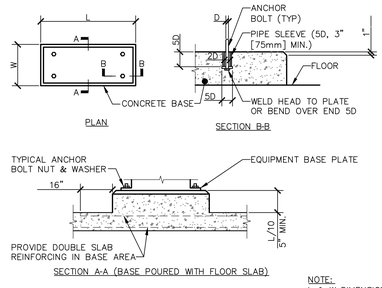



MAXIMUM PIPE/TUBING SUPPORT SPACING

| NOM. SIZE IN. | THRU 3/4 | 1 |
|---|---|---|
| PIPE FT. | 7 | 7 |
| TUBING FT. | 5 FT | 6 |

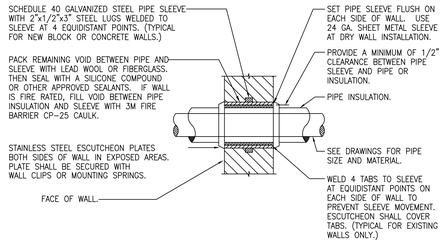
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

## 1 PIPE HANGERS
NTS



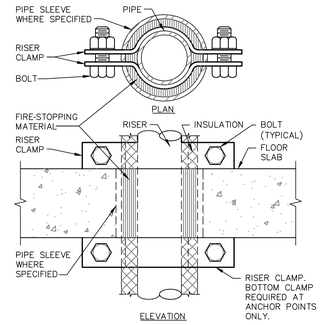

NOTE:
L & W DIMENSIONS SHALL BE 6" GREATER THAN THE EQUIPMENT BASE PLATE.

## 2 CONCRETE EQUIPMENT BASES
NTS

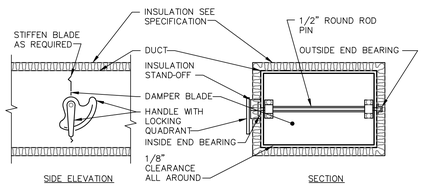



DETAIL NOTES:
1. I.D. OF OF PIPE SLEEVE TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR SLEEVES WITH OTHER TRADES AND/OR CONTRACTORS.
3. PIPE SLEEVES THRU SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

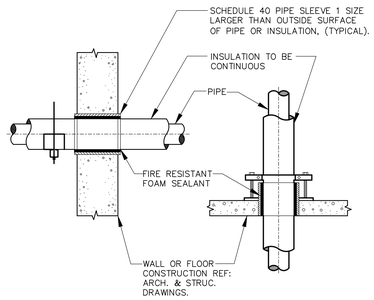
## 3 PIPE SLEEVE THRU INTERIOR 2 HOUR RATED FIRE WALL DETAIL
NO SCALE



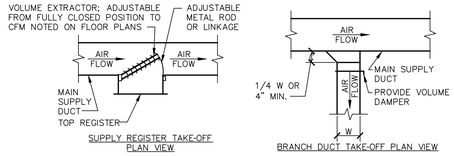

## 4 SUPPORT/ANCHOR FOR PIPE RISERS
NTS



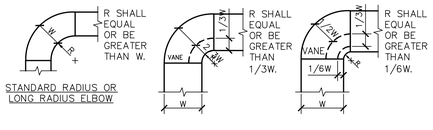

## 5 VOLUME DAMPER DETAIL
NTS




## 6 PIPE SLEEVE DETAILS
NTS

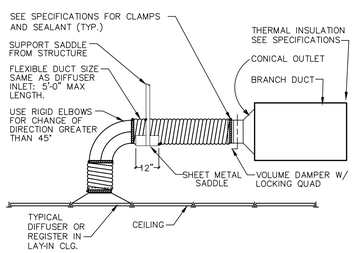



## 7 SUPPLY DUCTWORK TAKE-OFFS
NTS

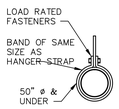



NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

## 8 DUCTWORK RADIUS ELBOWS
NTS



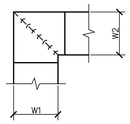

## 9 FLEXIBLE AIR DUCT CONNECTOR
NTS




| HANGER STRAPS OR RODS | | | |
|---|---|---|---|
| MAX. DUCT ø IN. | QUANTITY/SIZE IN. | MAX. LOAD LBS. | MAX. SPACING IN. |
| 26 | ONE 1 x 22 GA STRAP | 260 | 144 |
| 36 | ONE 1 x 18 GA STRAP | 420 | 144 |

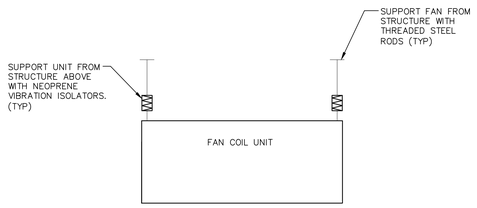
NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

## 10 ROUND DUCT HANGERS
NTS




NOTE:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

## 11 DUCTWORK SQUARE VANE ELBOWS
NTS




## 12 FAN COIL UNIT INSTALLATION DETAIL
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
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Drawing Title: MECHANICAL DETAILS
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
Date: 07/01/2015
Checked: SAT
Drawn: RAH
Project Number: 578-15-026
Building Number: 200
Drawing Number: M-501

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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# DUCTLESS SPLIT-SYSTEM & AIR CONDITIONER SCHEDULE

| MARK | TYPE | LOCATION | SUPPLY FAN CFM | DESIGN TONS | REFRIGERANT TYPE | COOLING CAPACITY: TOTAL COOLING (MBH) | COOLING CAPACITY: SENSIBLE COOLING (MBH) | COOLING CAPACITY: ENTERING AIR (°F) DB | COOLING CAPACITY: ENTERING AIR (°F) WB | MIN SEER WB | ELECTRICAL INDOOR UNIT: FAN MOTOR F.L.A | ELECTRICAL INDOOR UNIT: FAN MOTOR OUTPUT WATTS | ELECTRICAL INDOOR UNIT: MCA AMPS | ELECTRICAL OUTDOOR UNIT: MCA AMPS | ELECTRICAL OUTDOOR UNIT: MOCP AMPS | ELECTRICAL OUTDOOR UNIT: QUANTITY FANS | ELECTRICAL OUTDOOR UNIT: AMBIENT TEMP °F | ELECTRICAL VOLT / PHASE | SPLIT SYSTEM OUTDOOR UNIT: MARK OUTDOOR UNIT | SPLIT SYSTEM OUTDOOR UNIT: CAPACITY | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FCU-1 | CEILING MOUNTED | SWITCHGEAR ROOM | 1,000 | 3.5 | R410A | 42.0 | 29.8 | 80.0 | 67.0 | 15.8 | 0.97 | 160.0 | 2.0 | 26.0 | 40.0 | 2.0 | 95.0 | 208-1 | ACCU-1 | MATCH INDOOR UNIT | 1, 2, 3 AND 4 |
| FCU-2 | CEILING MOUNTED | SWITCHGEAR ROOM | 1,000 | 3.5 | R410A | 42.0 | 29.8 | 80.0 | 67.0 | 15.8 | 0.97 | 160.0 | 2.0 | 26.0 | 40.0 | 2.0 | 95.0 | 208-1 | ACCU-2 | MATCH INDOOR UNIT | 1, 2, 3, AND 4 |
| FCU-3 | CEILING MOUNTED | SWITCHGEAR ROOM | 1,000 | 3.5 | R410A | 42.0 | 29.8 | 80.0 | 67.0 | 15.8 | 0.97 | 160.0 | 2.0 | 26.0 | 40.0 | 2.0 | 95.0 | 208-1 | ACCU-3 | MATCH INDOOR UNIT | 1, 2, 3, AND 4 |
| FCU-4 | CEILING MOUNTED | SWITCHGEAR ROOM | 1,000 | 3.5 | R410A | 42.0 | 29.8 | 80.0 | 67.0 | 15.8 | 0.97 | 160.0 | 2.0 | 26.0 | 40.0 | 2.0 | 95.0 | 208-1 | ACCU-4 | MATCH INDOOR UNIT | 1, 2, 3, AND 4 |

**NOTES:**

1. BASIS OF DESIGN: MITSUBISHI ELECTRIC P SERIES MODEL NUMBER INDOOR UNIT: PEAD-A42AA4 OUTDOOR UNIT: PUY-A2NHA4 OR VA APPROVED EQUAL.
2. PROVIDE WITH MANUFACTURER'S STANDARD CONTROLS INCLUDIING WALL-MOUNTED THERMOSTAT, CONDENSATE PUMP, FB1 FILTER BOX WITH 1" THICK MERV 8, AND PLATFORM STANDS.
3. DISCONNECT SWITCHES BY E.C. AND CONTROLLER BY MANUFACTURER.
4. INDOOR UNITS RECEIVES POWER FROM OUTDOOR UNIT THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.

# DIFFUSER, REGISTER, AND GRILLE SCHEDULE

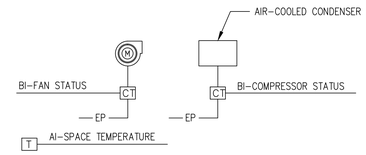
| MARK | TYPE | MATERIAL | MOUNTING | PANEL / FRAME SIZE inxin | NECK SIZE (in) | DAMPER | FINISH | MODEL (TITUS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| S1 | SINGLE DEFLECTION | STEEL | DUCT | SEE DWG | SEE DWG | NONE | WHITE | 301FL | 1 |
| S2 | PLAQUE FACE | STEEL | LAY-IN | SEE DWG | 24x24 | NONE | WHITE | TMS | 1 |
| R1 | PERFORATED | STEEL | LAY-IN | SEE DWG | 24x24 | NONE | WHITE | PXP-AA | 1 |
| R2 | 35 DEFLECTION | STEEL | DUCT | SEE DWG | SEE DWG | NONE | WHITE | 350R | 1 |

**NOTES**
1. BASIS OF DESIGN: TITUS-HVAC OR VA APPROVED EQUAL.

# DUAL DUCT TERMINAL BOX SCHEDULE

| MARK | LOCATION | MAX. CFM | MIN. CFM | COOLING CFM | HEATING CFM | INLET SIZE COOL/HEAT | MANUFACTURER | MODEL (TITUS) | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| DDT-1 | SINGLE DEFLECTION | 625 | 200 | 315 | 315 | 6 | TITUS | DEDV | 1 AND 2 |

**NOTES**
1. BASIS OF DESIGN: TITUS-HVAC OR VA APPROVED EQUAL.
2. PROVIDE DUAL DUCT TERMINAL BOX WITH BAFFLE AND CONTROL BY TEMPERATURE CONTRACTOR.

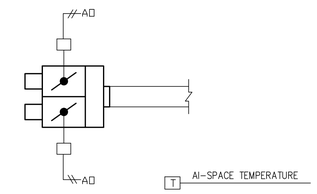



## DUCTLESS SPLIT SYSTEM

NTS

DUCTLESS SPLIT SYSTEMS (FCU-1 THRU FCU-4)

DUCTLESS SPLIT SYSTEMS SHALL HAVE SYSTEM MANUFACTURER'S STANDARD WALL-MOUNTED PROGRAMMABLE CONTROLLER. SYSTEM SHALL OPERATE UNDER ITS BUILT-IN, FACTORY INSTALLED CONTROL SYSTEM TO MAINTAIN ROOM TEMPERATURE SET POINT (72F). AN INDEPENDENT, WALL-MOUNTED TEMPERATURE SENSOR SHALL MONITOR ROOM TEMPERATURE AND SEND AN ALARM TO THE BMS PANEL IF ROOM TEMPERATURE RISES ABOVE 85F (ADJUSTABLE). HIGH TEMPERATURE ALARM SHALL REQUIRE MANUAL RESET. THE BMS SHALL MONITOR COMPRESSOR STATUS.




## DUAL DUCT TERMINAL BOX

NTS

DUAL DUCT TERMINAL BOX (DDT-1)
DDT PROGRAMMABLE CONTROLLER SHALL MODULATE THE DDT DAMPER TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR.

HEATING MODE:
THE DDT SHALL GO INTO HEATING MODE WHENEVER IT SENSE THE HOT DECK TEMPERATURE ABOVE 75°F. THE HEATING MODE THE BOX WILL MAINTAIN SPACE TEMPERATURE 72°F (ADJ.) THE HOT DECK DAMPER WILL MODULATE REVERSE ACTING BETWEEN MAXIMUM HEATING CFM (200) AND MINIMUM CFM (100). ON A FURTHER REDUCTION IN CALL FOR HEATING THE HOT DECK DAMPER WILL CONTINUE TO CLOSE AND THE COLD DECK DAMPER WILL START TO OPEN MIXING AIR TO MAINTAIN THE MINIMUM CFM (100). ON A FURTHER REDUCTION IN CALL FOR HEAT THE HOT DECK WILL STAY CLOSED AND THE COLD DECK WILL CONTINUE TO OPEN UNTIL THE MAXIMUM CFM IS REACHED (200). ON A CALL FOR MORE HEAT THE REVERSE WILL HAPPEN.

COOLING MODE:
THE BOX WILL GO INTO COOLING MODE WHENEVER IT SENSE HOT DECK TEMPERATURE BELOW 70°F. IN THE COOLING MODE THE COLD DECK DAMPER WILL MODULATE OPEN FROM THE MINIMUM CFM (100) UP TO 200 CFM, TO MAINTAIN SPACE TEMPERATURE. ON FURTHER CALL FOR COOLING THE COLD DECK DAMPER WILL STAY AT 200 CFM AND THE HOT DECK DAMPER WILL MODULATE OPEN UNIT AN ADDITIONAL 200 CFM IS REACHED (TOTAL MAXIMUM COOLING CFM IS 400 CFM). ON A REDUCED CALL FOR COOLING THE REVERSE WILL HAPPEN WITH THE HOT DECK DAMPER CLOSING FIRST, THEN THE COLD DECK DAMPER WILL MODULATE DOWN TO MINIMUM.

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
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| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

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Drawing Title: MECHANICAL SCHEDULES AND CONTROL DIAGRAM

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: SAT | Drawn: RAH

Project Number: 578-15-026

Building Number: 200

Drawing Number: M-601

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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# ELECTRICAL GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL ELECTRICAL, ALL PLUMBING, AND ENTIRE PROJECT MANUAL. ELECTRICAL CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
2. ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK, AND FULLY INFORM HIMSELF AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF, SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE OWNER AND ARCHITECT AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK AND THE WORK OF OTHER TRADES PRIOR AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.
3. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED, INSTALLED OR WIRED ON THE ELECTRICAL DRAWINGS, THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE COMPLETELY FOR ALL PURCHASES AND LABOR FOR A COMPLETE OPERATING SYSTEM FOR THIS ITEM.
4. ANY MENTION OF A SPECIFIC VOLTAGE ON THE ELECTRICAL DRAWINGS SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE VOLTAGE PRIOR TO PURCHASING OR ROUGH-IN WORK.
5. ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET MOUNTING ARRANGEMENTS, HEIGHTS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, HEIGHT OR LOCATION SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT WITH THE EQUIPMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR OUTLETS IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK ETC. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY DEVICE 10'-0" PRIOR TO ROUGH-IN WITHOUT ANY ADDITIONAL CHARGES BY THE ELECTRICAL CONTRACTOR.
6. ALL INSTRUMENTS, APPARATUS AND EQUIPMENT SHALL BE TESTED AND PROVED TO BE ELECTRICALLY AND MECHANICALLY WITHOUT DEFECTS. THE ELECTRICAL SYSTEM SHALL BE TESTED FOR GROUNDS OR SHORTS AND IF SHORTED OR GROUNDED, ALL SUCH WIRES SHALL BE REMOVED AND REPLACED. IF TROUBLE IS WITHIN CIRCUIT, ALL METERS, CABLES, EQUIPMENT OR APPARATUS NECESSARY FOR MAKING ALL TESTS SHALL BE FURNISHED AND PROVIDED BY ELECTRICAL CONTRACTOR.
7. ELECTRICAL CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA), AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
8. THE CONSULTING ENGINEER MAY MAKE PERIODIC VISITS TO THE JOB SITE TO OBSERVE THE PROGRESS OF THE WORK AND TO OBSERVE WHETHER OR NOT IT IS BEING PERFORMED IN ACCORDANCE WITH THE ELECTRICAL PLANS AND SPECIFICATIONS. THIS DOES NOT IN ANY WAY MEAN THAT THE ENGINEER IS A GUARANTOR OF THE CONTRACTOR'S WORK, OR RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE, IN CONTROL OF THE SAFETY OR ADEQUACY SAFETY OR ADEQUACY OF ANY SHIPMENT, BUILDING, SCAFFOLDING, FORMS OR OTHER WORK AIDS, OR FOR SUPERINTENDING, DIRECTING OR HAVING CHARGE AT THE ERECTION AND/OR CONSTRUCTION OF THE WORK.
9. UPON COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE OWNER'S PROPERTY, LEAVING THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY CARTON, DEBRIS, ETC. FOR EQUIPMENT INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY THE OWNER. THE ABOVE SHALL ALSO APPLY TO ALL EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTON, BY THE ELECTRICAL CONTRACTOR.
10. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR.
11. THE ELECTRICAL CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS AND TAXES APPLICABLE TO THIS DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THIS CONTRACT.
12. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING FOR HAND TOOLS AND CONSTRUCTION LIGHTING PER LATEST OSHA STANDARDS AND INCLUDE ALL COSTS IN THE BASE BID.
13. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD TO BE COORDINATED WITH VA REQUIREMENTS. AFTER THE FINAL ACCEPTANCE BY THE OWNER/COR.
14. ELECTRICAL CONTRACTOR SHALL FURNISH CONTRACT RECORD DOCUMENTS TO THE ARCHITECT/ENGINEER BEFORE FINAL PAYMENT WILL BE ISSUED. THE CONTRACT RECORD DOCUMENTS SHALL DIAGRAMMATICALLY INDICATE THE INSTALLED CONDITION AND BE IN REPRODUCIBLE DRAWING FORM.
15. THE ELECTRICAL INSTALLATION IS TO BE IN ACCORDANCE WITH ALL NATIONAL, STATE, LOCAL ELECTRICAL CODES AND LOCAL UTILITY COMPANY'S REQUIREMENTS. ANY MODIFICATION'S AND/OR ADDITIONS TO THESE PLANS, REQUIRED FOR PROPER COMPLIANCE TO ANY APPLICABLE CODES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN HIS/HER BASE BID.
16. THE ELECTRICAL INSTALLATION IS TO BE IN ACCORDANCE WITH ALL NATIONAL, STATE, LOCAL ELECTRICAL CODES AND LOCAL UTILITY COMPANY'S REQUIREMENTS. ANY MODIFICATION'S AND/OR ADDITIONS TO THESE PLANS, REQUIRED FOR PROPER COMPLIANCE TO ANY APPLICABLE CODES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN HIS/HER BASE BID.
17. ALL WIRE AND CABLE SHALL BE COPPER ONLY, TYPE "THWN" OR "XHHW". MINIMUM WIRE SIZE TO BE #12 EXCEPT FOR CONTROL WIRE. ALL WIRE SIZE #10 AWG AND SMALLER SHALL BE SOLID. ALL CABLE #8 AWG AND LARGER SHALL BE STRANDED. FOR ALL UNDERGROUND SERVICE CONDUCTORS FROM THE UTILITY COMPANY TRANSFORMER TO THE SERVICE EQUIPMENT SHALL BE TYPE "RHH-RHW-USE" (CROSS-LINKED POLYETHYLENE INSULATION).
18. ALL 20 AMPERE BRANCH CIRCUIT HOMERUNS 100' OR LONGER SHALL BE MINIMUM #10 AWG OR LARGER SIZED TO LIMIT VOLTAGE DROP TO CODE REQUIREMENTS.
19. NO ROMEX OR BX WILL BE PERMITTED.
20. ALL WIRE SHALL BE INSTALLED IN THIN WALL (E.M.T.) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" EXCEPT FOR DROPS FOR DEVICES, SWITCH LEGS, TEMPERATURE CONTROL CONDUITS, WHERE INDICATED OR AS CALLED FOR ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE.
21. ALL UNDERFLOOR, UNDERGROUND OR EXPOSED-TO-WEATHER CONDUIT SHALL BE HEAVYWALL GALVANIZED RIGID STEEL. (G.R.S.), MINIMUM 3/4".
22. ALL CONDUITS 2" OR LARGER SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT (I.M.C.).
23. ELECTRICAL CONTRACTOR SHALL INSTALL SIZE OF CONDUIT SHOWN AND AS SCHEDULED ABOVE AND SHALL NOT REDUCE SIZING OF CONDUITS TO SUIT WIRE FILL CAPACITY.
24. ALL CONDUIT FASTENERS, STRAPS, SUPPORTS ETC. MUST BE "BOLT-ON" GALVANIZED STEEL ON EXPOSED CONSTRUCTION AND IN WET AREAS. SNAP-ON BLACK METAL "CADDY" CLIPS IN METAL PARTITION WALLS AND ABOVE SUSPENDED CEILINGS WILL BE PERMITTED. ALL FASTENERS, STRAPS, CLIPS, ETC. SHALL BE UL LISTED FOR THEIR USE.
25. NO CONDUITS SHALL BE ROUTED THROUGH HVAC AIR DUCTS.
26. ALL CONDUIT RACEWAYS SHALL BE CONCEALED IN OR WITHIN: WALLS, CEILING CAVITY, ROOF CONSTRUCTION (WHERE APPROVED), SLAB, GRADE, ETC. UNLESS OTHERWISE NOTED. ANY RACEWAY THAT IS TO BE ROUTED EXPOSED SHALL BE APPROVED BY THE OWNER/COR AND SUCCESSFULLY REVIEWED BY THE ARCHITECT. PRIOR TO INSTALLATION. ALL CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS WITH 90° BENDS WHERE REQUIRED AND SHALL BE RACKED. PULL AND JUNCTION BOXES SHALL BE HELD TO A MINIMUM.
27. NO WIREWAY, THROUGH OR JUNCTION SHALL BE UTILIZED WHERE MORE THAN 8 CONDUITS ARE ENTERING OR LEAVING. MULTIPLE WIREWAYS, TROUGHS OR JUNCTIONS SHALL BE UTILIZED. IN NO CASE SHALL FEEDER OR CONDUIT OR CABLING BE MIXED WITH BRANCH CONDUIT.
28. NO CONDUITS SHALL BE ROUTED ON ROOF. ELECTRICAL CONTRACTOR SHALL COORDINATE ROOF PENETRATIONS WITH MECHANICAL PIPE CURBS. WHERE CONDUIT MUST BE RUN ON ROOF, IT SHALL BE RACKED WITH OTHER TRADES WHERE POSSIBLE OR PROVIDED WITH ITS OWN ROOF RACK SUPPORT SYSTEM WITH PROPER ROOF PLATE SO AS NOT TO CAUSE DAMAGE TO ROOF COVERING.
29. ELECTRICAL CONTRACTOR SHALL FIREPROOF ALL CONDUIT OPENINGS BETWEEN FLOORS AND ANY INTERSPACE FIRE SEPARATION BLOCK WALLS WITH AN OWNER APPROVED UL LISTED FIRE RETARDANT MATERIAL. AS SUCCESSFULLY REVIEWED BY THE ARCHITECT.
30. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THRU FLOORS. ELECTRICAL CONTRACTOR SHALL WEATHERPROOF ALL PENETRATIONS THRU FOUNDATION AND EXTERIOR WALLS.
31. FINAL EQUIPMENT CONNECTION TO PILOT CONTROL DEVICES SHALL BE MADE WITH 1'-0" MINIMUM LENGTH OF FLEXIBLE CONDUIT CONNECTION (IE. SOLENOID VALVES, MOTORIZED DAMPERS, ETC.).
32. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS AND FINAL POWER CONNECTIONS FOR FIRE PROTECTION FLOW SWITCHES, TAMPER SWITCHES AND ALARM BELLS AS REQUIRED.

# ELECTRICAL SYMBOL LIST:

| SYMBOL | DESCRIPTION |
|---|---|
| A.F.F. | ABOVE FINISHED FLOOR |
| E.C. | ELECTRICAL CONTRACTOR |
| EM | INDICATES FIXTURE CONNECTED TO EMERGENCY SERVICE |
| EWC | ELECTRIC WATER COOLER |
| GFI | GROUND FAULT INTERRUPTER |
| GND | GROUND INDICATES GREEN GROUND CONDUCTOR CONNECTED TO EQUIPMENT AND PANEL |
| NL | NIGHT LIGHT, 24 HOUR OPERATION |
| U.N.O. | UNLESS NOTED OTHERWISE |
| WP | WEATHERPROOF |
| $ | SINGLE POLE TOGGLE SWITCH, 20 AMPERE RATED, MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE.<br>SUBSCRIPT: "a" - LOWER CASE LETTER INDICATES SWITCH CONTROL<br>"3W" - DENOTES THREE WAY TOGGLE SWITCH<br>"2P" - DENOTES TWO POLE TOGGLE SWITCH<br>"P" - DENOTES LIGHTED HANDLE TOGGLE SWITCH, LIGHT IN SWITCH SHALL LIGHT WHEN EQUIPMENT IS OPERATING<br>"4W" - DENOTES FOUR WAY TOGGLE SWITCH |
| $T | THERMAL OVERLOAD TOGGLE SWITCH WITH PROPERLY SIZED HEATER ELEMENTS, 48" A.F.F. UNLESS EQUIPMENT MOUNTED |
| $D | SINGLE POLE SLIDE TYPE ARCHITECTURAL INCANDESCENT DIMMER SWITCH WITH FINS, 1200 WATT CAPACITY (LUTRON NOVA SERIES OR LEVITON). ALL NON-DIMMING SWITCHED ADJACENT TO OR IN SAME ROOM SHALL BE THE SLIDE TYPE TO MATCH DIMMERS.<br>SUBSCRIPT: "FD" - DENOTES FLUORESCENT DIMMER TO MATCH ABOVE<br>"LV" - DENOTES LOW VOLTAGE DIMMER TO MATCH ABOVE |
| | |
| | DUPLEX RECEPTACLE, 120 VOLT, 20 AMPERE RATED, 18" A.F.F. UNLESS NOTED OTHERWISE. HUBBELL OR LEVITON #53624, MTD HORIZONTALLY IN JUNCTION BOX.<br>SUBSCRIPT: "GFI" - DENOTES GROUND FAULT INTERRUPTER TYPE RECEPTACLE<br>"IG" - DENOTES ISOLATED GROUND TYPE RECEPTACLE HUBBELL OR LEVITON #IG5362 |
| | SURFACE MOUNTED DUPLEX, EXPOSED CONDUIT. |
| | DOUBLE DUPLEX RECEPTACLE, 120V, 20 AMP RATED 18" A.F.F. UNLESS OTHERWISE NOTED. MOUNTED IN COMMON JUNCTION BOX. |
| | SINGLE RECEPTACLE, 120V, 20 AMP RATED, SPECIFICATION GRADE, MOUNTED HORIZONTALLY 6" TO CENTERLINE, OF RECEPTACLE ABOVE COUNTER/BACK/SPLASH/DESK. |
| | DUPLEX RECEPTACLE, 120V, 20 AMPERE RATED 6" ABOVE FINISHED COUNTER TOP OR BACK SPLASH MOUNTED HORIZONTALLY. AT LOCATIONS WHERE THERE IS NO COUNTER TOP, RECEPTACLE SHALL BE MOUNTED 42" A.F.F. |
| | JUNCTION BOX WALL MOUNTED |
| | JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION |
| | MOTOR CONNECTION |
| | ELECTRICAL PANEL |
| | NON-FUSED DISCONNECT SWITCH, SIZE AND RATING AS NOTED ON DRAWINGS |
| | FUSED DISCONNECT SWITCH, SIZE AND RATING AS NOTED ON DRAWING |
| T | THERMOSTAT JUNCTION BOX MOUNTED 54" A.F.F. UNLESS OTHERWISE NOTED. |
| | COMBINATION MOTOR STARTER AND DISCONNECT SWITCH, SIZE AND RATING AS NOTED ON DRAWINGS. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION |
| | REGULAR POWER (LP PANEL) |
| | SAFETY POWER (SP PANEL) |
| | CRITICAL POWER (CP PANEL) |
| | OPEN CABLE LADDER TRAY |
| | EXIT SIGN |
| | 2 X 2 EMERG. LED LIGHT FIXTURE WITH DRIVER |
| | 2 X 4 EMERG. LED LIGHT FIXTURE WITH DRIVER |
| | 2 X 4 LED LIGHT FIXTURE WITH DRIVER |
| | 2 X 2 LED LIGHT FIXTURE WITH DRIVER |
| | LED DOWNLIGHT WITH DRIVER |
| | LED STRIP LIGHT FIXTURE |

# ELECTRICAL SYMBOL LIST: (CONT.)

| SYMBOL | DESCRIPTION |
|---|---|
| DS | OCCUPANCY SENSOR, DUAL TECHNOLOGY (PIR/ULTRASONIC) |
| VS | VACANCY SENSOR |
| HD | HEAT DETECTOR |
| | WALL MOUNTED EMERGENCY BATTERY LIGHT FIXTURE |
| | EXIT SIGN |
| | DUPLEX RECEPTACLE 42" AFF |
| | (1) TELEPHONE OUTLET, CAT 6<br>(1) DATA OUTLET, CAT 6 |
| U.N.O. | UNLESS NOTED OTHERWISE |

# BASIS OF DESIGN

1. PROVIDE DEMOLITION OF POOL PUMPS AND ASSOCIATED WIRING.
2. REMOVAL AND RELOCATION OF EXISTING ELECTRICAL EQUIPMENT SERVING LIFE SAFETY TO NEW CONTROL ROOM.
3. DEMOLITION WORK INCLUDE LIGHTING AND POWER OUTLET SERVING POOL ROOM AND ADJACENT ROOMS.
4. NEW POWER AND LIGHTS WILL BE INSTALLED IN NEW CONTROL ROOM, NEW ELECTRICAL ROOM, AND NEW HVAC EQUIPMENT ROOM IN THE BASEMENT.
5. PROVIDE NEW LIFE SAFETY EMERGENCY CIRCUIT TO CONTROL ROOM FOR RELOCATED LIFE SAFETY EQUIPMENT.
6. PROVIDE ALLOWANCE FOR NEW EMERGENCY CIRCUITS AND SUB FEEDER IF PANEL ELB DIRECTORY DOES NOT REFLECT ACTUAL CONDITIONS.

| Revisions: | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

ENGINEERS + CONSULTANTS:

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VA CONTRACT NO. VA69D-13-C-0324

| | | | |
|---|---|---|---|
| Drawing Title: ELECTRICAL GENERAL NOTES AND SYMBOLS | Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM | Project Number: 578-15-026 | Office of Construction and Facilities Management |
| Approved: Project Director | Location: HINES, ILLINOIS | Building Number: 200 | |
| | Date: 07/01/2015 / Checked: PP / Drawn: YY | Drawing Number: E-001 | Department of Veterans Affairs |

VA FORM 08-6231

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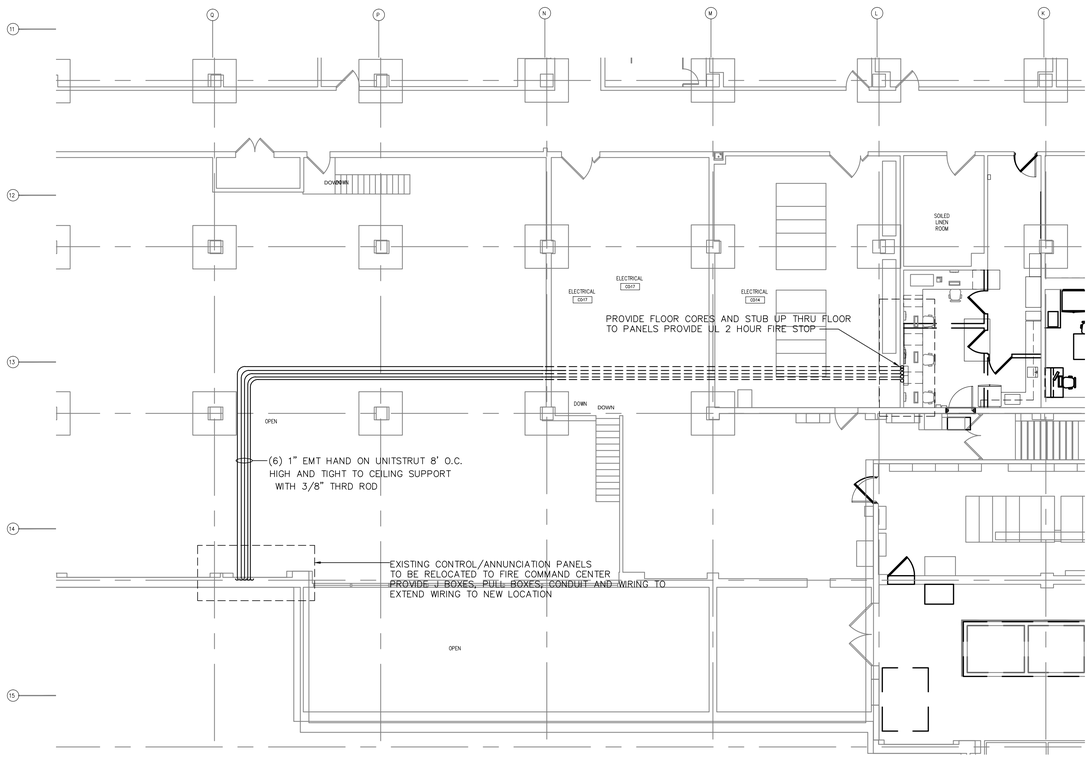
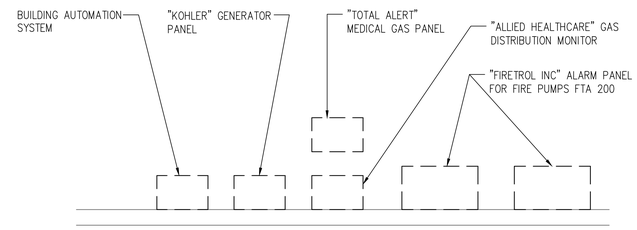



## ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL DISCONNECT PUMPS, CONTROL PANELS AND SWITCHES. REMOVE CONDUIT AND WIRING AS REQUIRED.




## 2 SOUTH WALL - EXISTING CONTROL ROOM EQUIPMENT PLAN

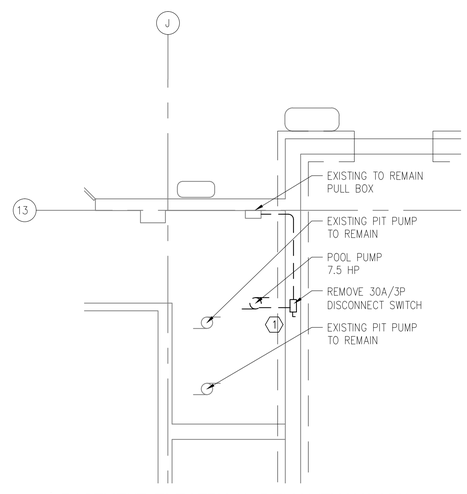
NTS

NOTE:

1. REMOVE PANELS AND DEVICES AND RELOCATE TO NEW CONTROL ROOM,
2. E.C. SHALL FURNISH AND INSTALL ALL WIRING AND CONDUIT TO RELOCATE ALL PANELS TO NEW FIRE COMMAND CENTER
3. E.C. SHALL COORIDINATE ALL INTERCONNECTIONS TO FACILITY ENGINEERING
4. PROVIDE FIRE STOP AT ALL FIRE COMMAND CENTER PENATRATIONS.

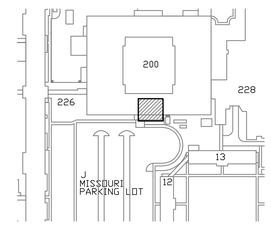
## A LOWER LEVEL - ELECTRICAL PARTIAL PLAN

1/8" = 1'-0"




## B LOWER (STONE) BASEMENT-ELECTRICAL DEMOLITION WORK

1/4"=1'-0"




## KEY PLAN

NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |

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Drawing Title: LOWER (STONE) BASEMENT-ELECTRICAL DEMOLITION WORK

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: PP | Drawn: YY

Project Number: 578-15-026

Building Number: 200

Drawing Number: ED-100

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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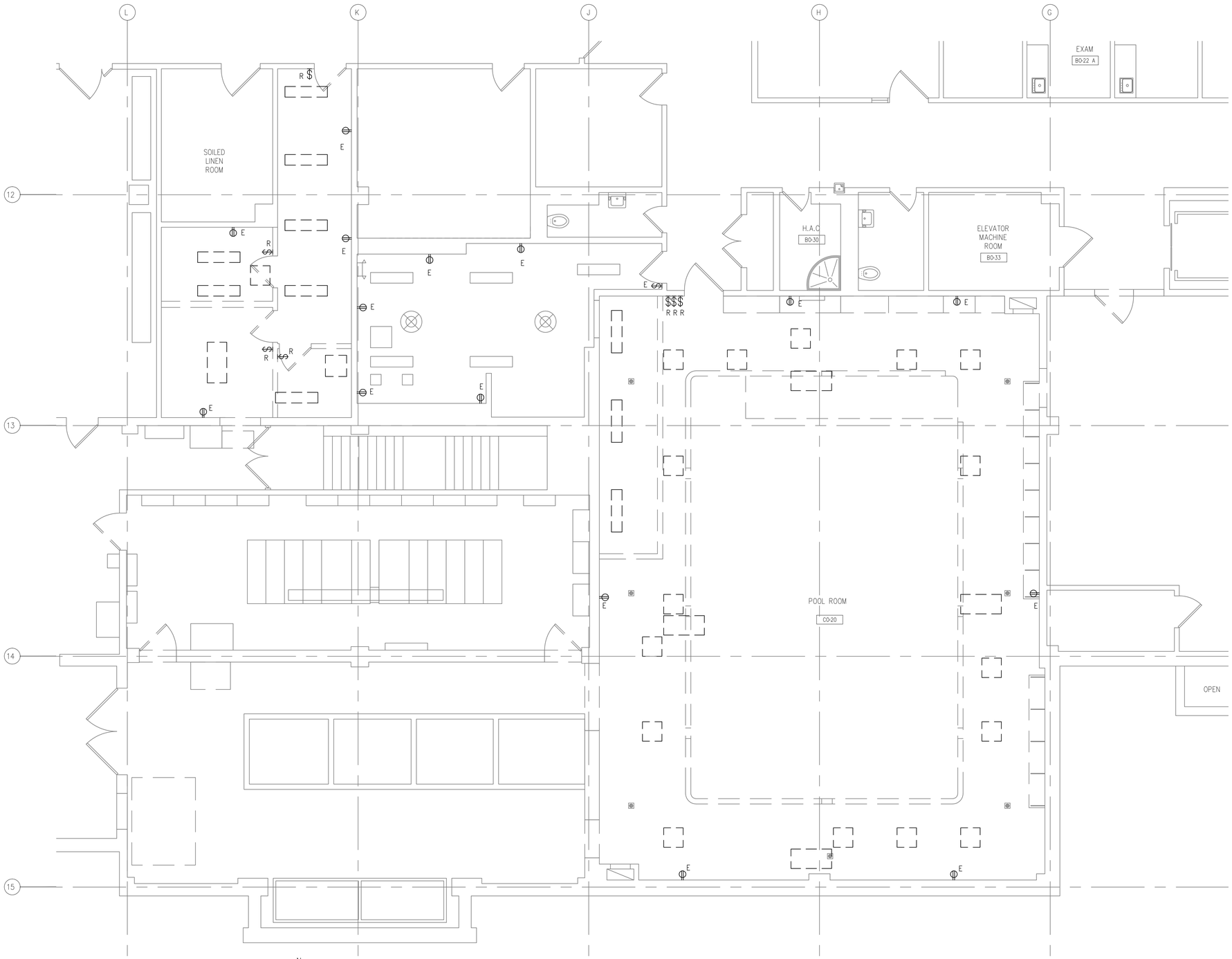


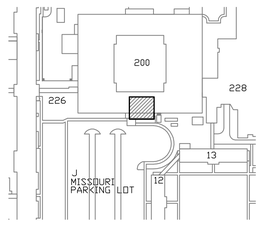

## ELECTRICAL NOTES

1. REMOVE DEVICES AS SHOWN. REUSE CIRCUITS SERVING THE AREA.

## ELECTRICAL SYMBOL LIST

- REMOVE SINGLE POLE TOGGLE SWITCH
- EXISTING DUPLEX RECEPTACLE
- REMOVE 2X4 LIGHT FIXTURE
- REMOVE 1X4 LIGHT FIXTURE
- REMOVE 2X2 LIGHT FIXTURE
- REMOVE RETURN GRILL
- REMOVE RETURN GRILL
- EXISTING RETURN GRILL
- EXISTING 2X4 LIGHT FIXTURE
- EXISTING 1X4 LIGHT FIXTURE
- EXISTING 2X2 LIGHT FIXTURE

A EXISTING POOL ROOM-ELECTRICAL DEMOLITION PLAN
1/4"=1'-0"




KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
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| 85% DD SUBMITTAL | 2/25/2015 |

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Drawing Title: EXISTING POOL ROOM-ELECTRICAL DEMOLITION PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: PP | Drawn: YY

Project Number: 578-15-026

Building Number: 200

Drawing Number: ED-101

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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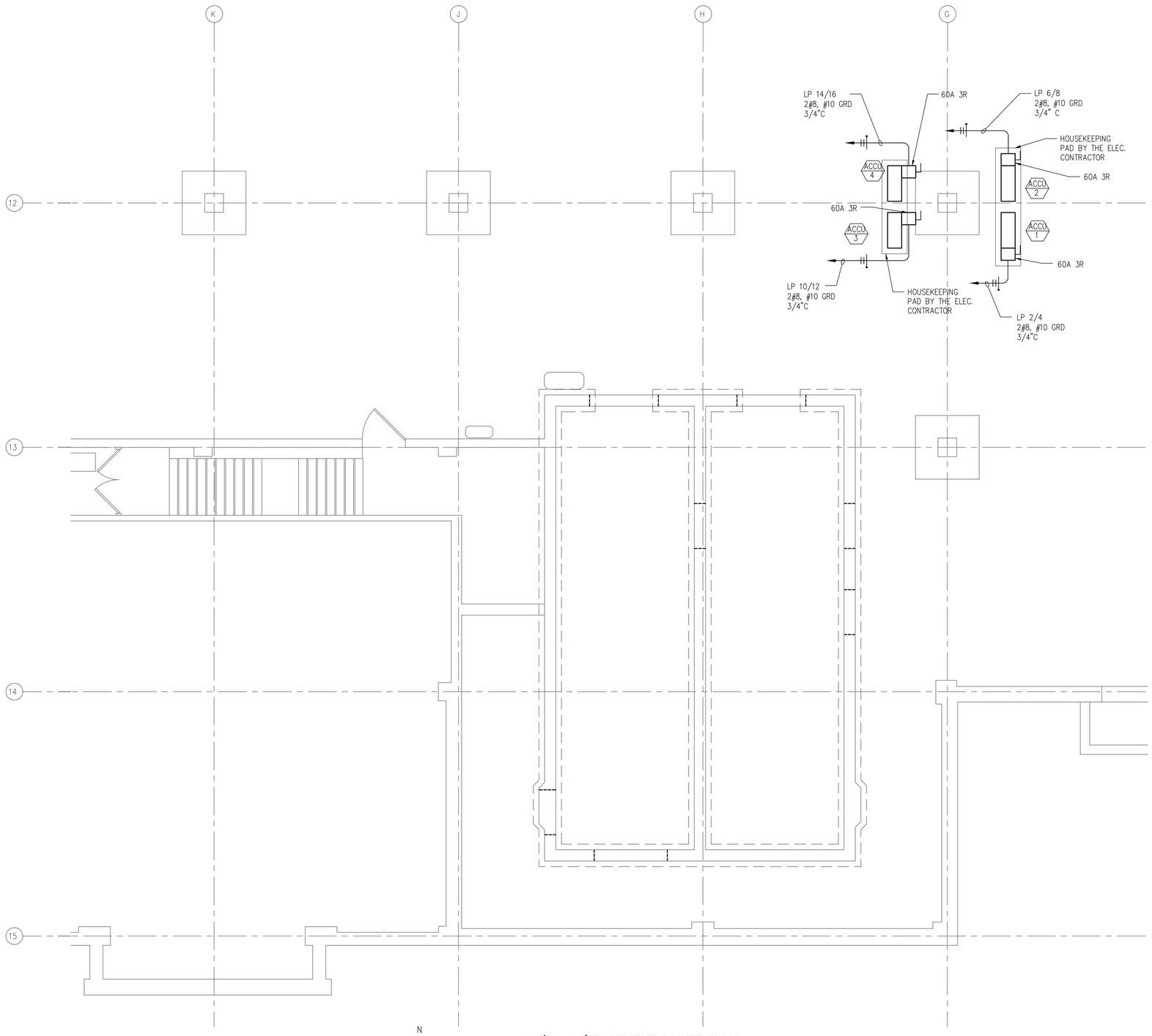


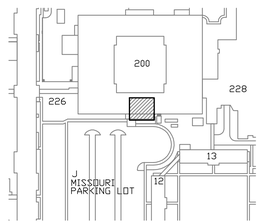

N

A LOWER (STONE) BASEMENT-POWER PLAN

1/4"=1'-0"

## ELECTRICAL NOTES

1. PANEL "LP-NL-B" LOCATED AT BASEMENT LEVEL.
2. PROVIDE DISCONNECT SWITCHES AS SHOWN.
3. CONTRACTOR SHALL PROVIDE POWER WIRING IN NEW CONDUIT FROM OUTDOOR ACCU UNITS TO RESPECTIVE FCU AS PER MANUFACTURER INSTALLATION INSTRUCTION.




N

KEY PLAN

NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
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Drawing Title: LOWER (STONE) BASEMENT-POWER PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: PP | Drawn: YY

Project Number: 578-15-026

Building Number: 200

Drawing Number: EP-100

Office of Construction and Facilities Management

Department of Veterans Affairs

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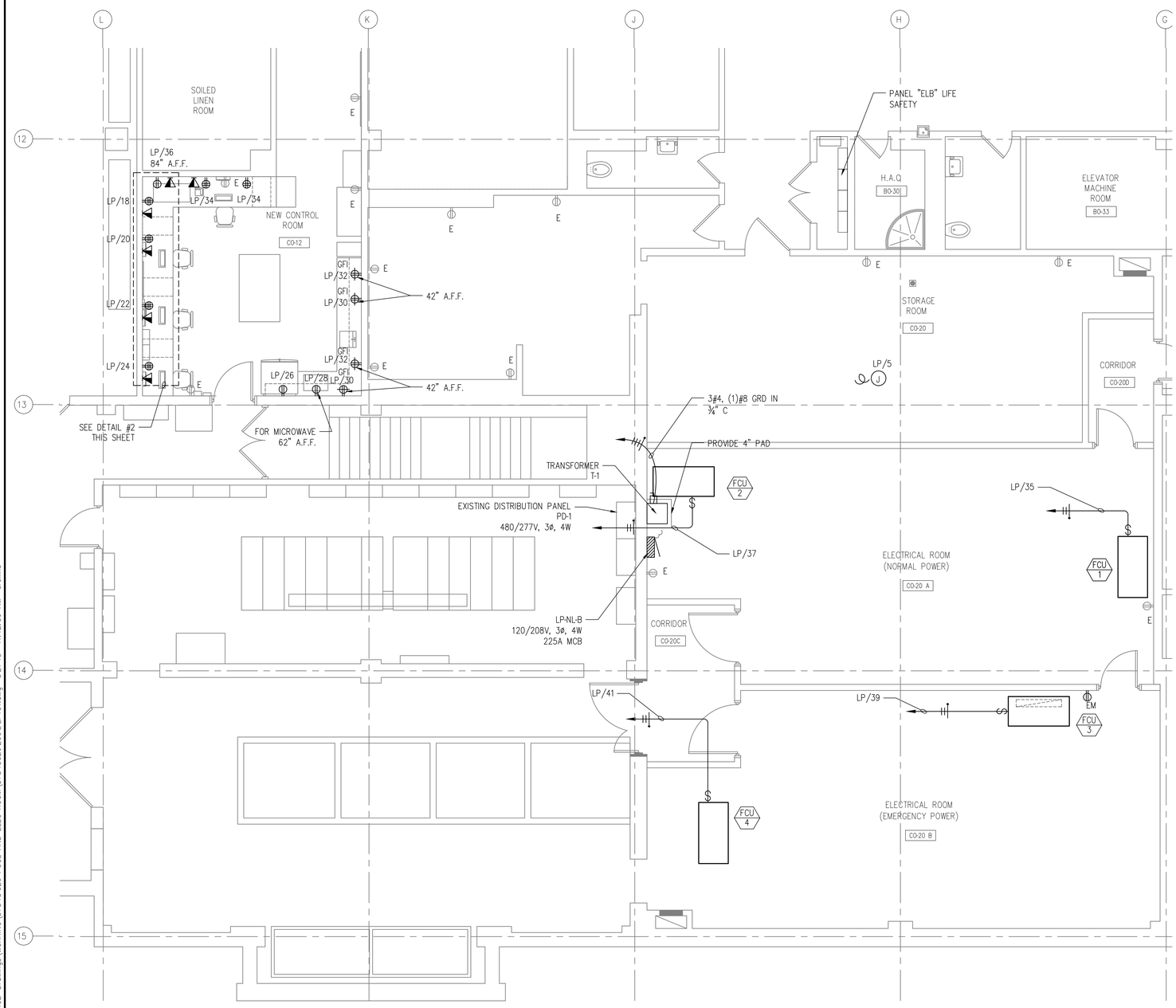
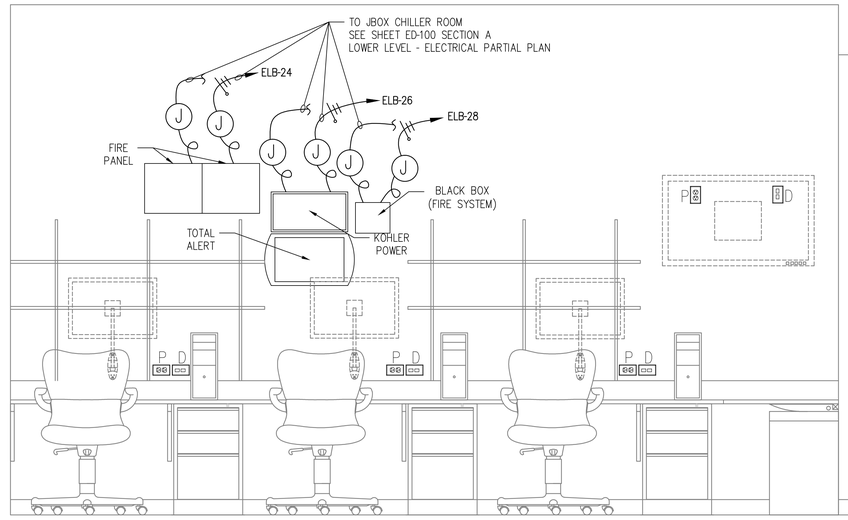
VA FORM 08-6231

## ELECTRICAL NOTES

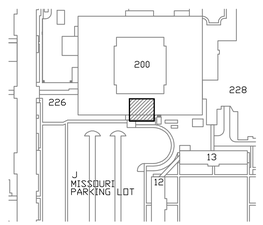
1. PROVIDE DISCONNECT SWITCH FOR FAN COIL UNITS.
2. CONNECT FAN COIL UNITS TO ACU'S LOCATED IN LOWER LEVEL.
3. REFER DRAWING EP-101 FOR ELB PANEL LOCATION AND PROVIDE POWER TO EMERGENCY OUTLETS IN ROOM CO-20A AND CO-20B.
4. FURNISH AND INSTALL TWO COMPARTMENT SURFACE RACEWAY FOR ROUTING POWER AND DATA CABLES.




A EXISTING POOL ROOM-POWER PLAN
1/4"=1'-0"




1 WEST WALL-EXISTING CONTROL ROOM PANELS
3/4"=1'-0"




KEY PLAN
NTS

VA CONTRACT NO. VA69D-13-C-0324

| Revisions | Date |
|---|---|
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Drawing Title: EXISTING POOL ROOM-POWER PLAN

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: CD | Drawn: YY

Project Number: 578-15-026

Building Number: 200

Drawing Number: EP-101

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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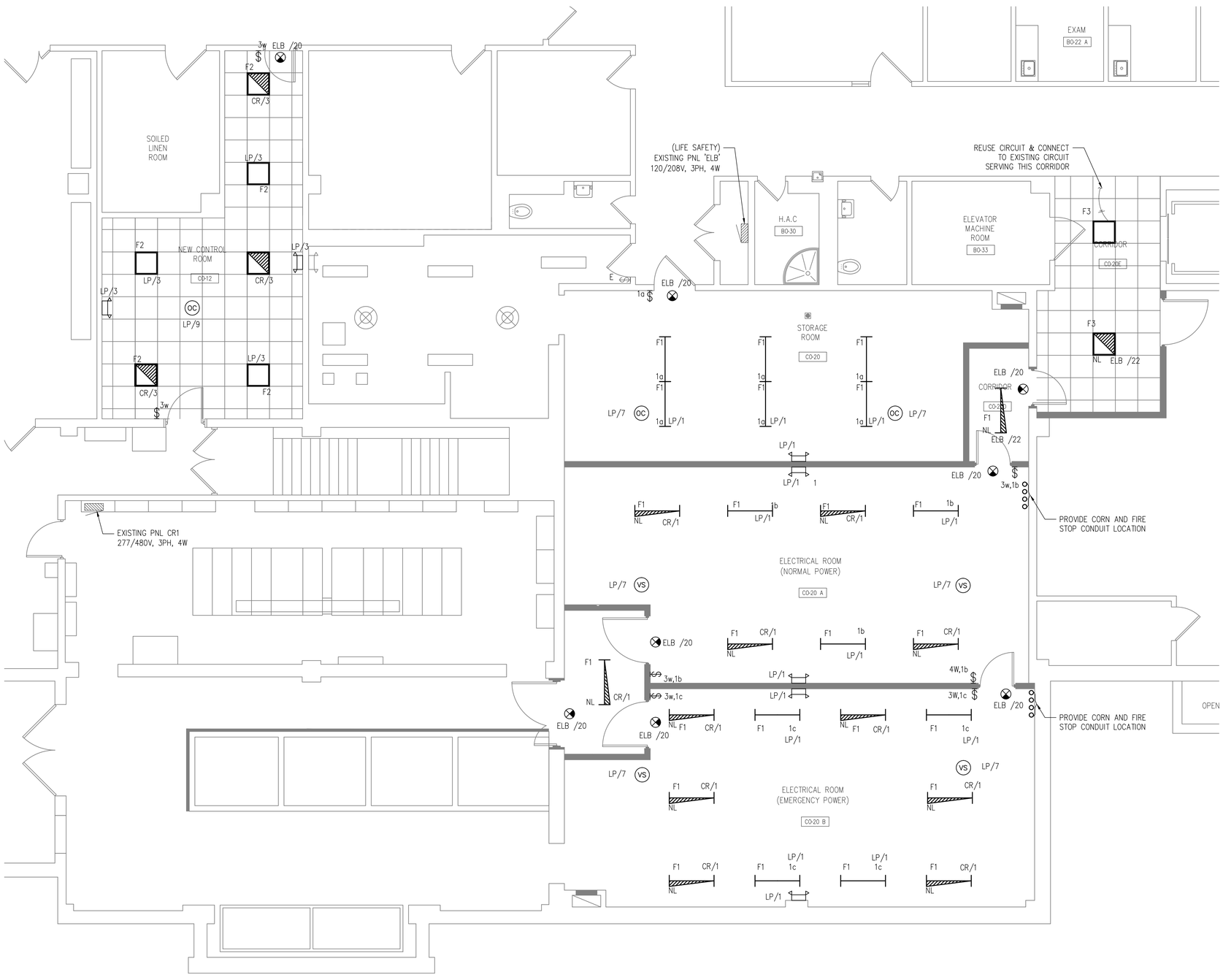
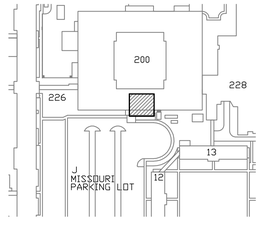



## ELECTRICAL NOTES

1. ALL DEVICES ARE NEW, U.N.O.
2. ALL 'NORMAL' LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUIT SERVING THE AREA. ALL 'EM' LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUIT SERVING THE AREA, TO EXISTING PANEL 'ELB'.
3. 90 MIN BATTERY PACK CONNECTED AHEAD OF SWITCH (TYPICAL).
4. REFER TO SHEET E-001 FOR LEGEND.
5. IN-ORDER TO COMPLY NEC CODE REQUIREMENT CONTRACTOR SHALL PROVIDE MANUAL MEANS TO BYPASS VACANCY SENSOR.
6. ALL CRITICAL LIGHTS TO PANEL CR1 PROVIDE NEW CIRCUIT BREAKERS.

A EXISTING POOL ROOM - LIGHTING PLAN
1/4"=1'-0"




KEY PLAN
NTS

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Drawing Title: EXISTING POOL ROOM-LIGHTING PLAN
Approved: Project Director
Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM
Location: HINES, ILLINOIS
Date: 07/01/2015
Checked: PP
Drawn: YY
Project Number: 578-15-026
Building Number: 200
Drawing Number: EL-101

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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## LIGHTING FIXTURE SCHEDULE

| FIXTURE | LAMP TYPE | DESCRIPTION | MANUFACTURER | CATALOG REFERENCE | SUPPLY VOLTAGE | WATTS | MOUNTING | NOTES |
|---|---|---|---|---|---|---|---|---|
| F1 | LED | 4' STRIPLIGHTLENSED LED W/DRIVER, 3500K, 5200 LUMENS | METALUX / LITHONIA / HUBBELL | SNLED-LD1-52-LW-UNV-L835-CD1-U | 120/277V | 53 | SUSPENDED | |
| F2 | LED | 2'X2' RECESSED LEDTROFFER W/DRIVER, 3500K, 6400 LUMENS | METALUX / LITHONIA / HUBBELL | 22EN-LD1-43-UNV-L835-CD1-U | 120/277V | 48 | RECESSED | |
| F3 | LED | 2'X2' RECESSED LEDTROFFER W/DRIVER, 3500K, 3400 LUMENS | METALUX / LITHONIA / HUBBELL | 22EN-LD1-34-UNV-L835-CD1-U | 120/277V | 35 | RECESSED | |
| | PAR36 | 90 MIN BATTERY PACK METAL BODY | SURE-LITES / LITHONIA / HUBBELL | AA8 SERIES | 120 | 7 | | |
| ⊗ | LED | 90 MIN EXIT SIGNAGES | SURE-LITES / LITHONIA / HUBBELL | LPX SERIES | 120 | 1 | | |

| PANEL NAME | LOCATION | MOUNTING | SUPPLIED FROM | VOLTAGE | BUS | MAIN |
|---|---|---|---|---|---|---|
| LP-NL-B | CO-20A | SURFACED | PD-1 | 208/120V. 3PH, 4W | 225A | 125A MCB |

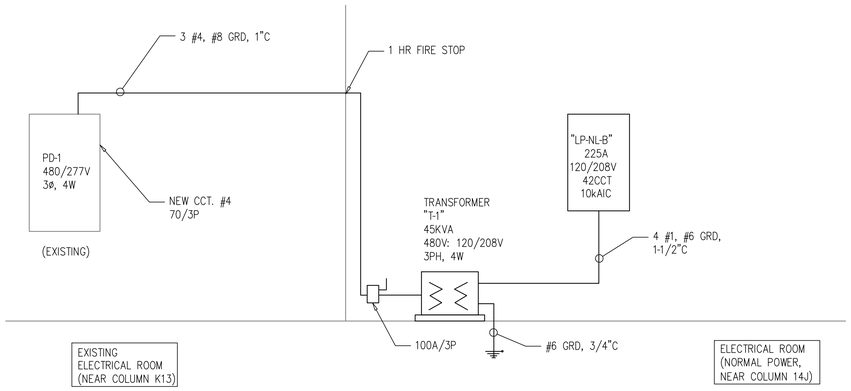
| CKT NO | LOAD DESCRIPTION | VA LOAD PH A | VA LOAD PH B | VA LOAD PH C | CODE | CB P | CB TR | BUS A | BUS B | BUS C | CB TR | CB P | CODE | VA LOAD PH A | VA LOAD PH B | VA LOAD PH C | LOAD DESCRIPTION | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LITES CO-20/20A/20B | 800 | | | L | 1 | 20 | X | | | 40 | 2 | E | 2800 | | | ACCU-1 | 2 |
| 3 | LITES RM CO-12 | | 500 | | L | 1 | 20 | | X | | | | E | | 2800 | | | 4 |
| 5 | DOT BOX | | | 100 | E | 1 | 20 | | | X | 40 | 2 | E | | | 2800 | ACCU-2 | 6 |
| 7 | PWR PAC CO20A/20B | 100 | | | E | 1 | 20 | X | | | | | E | 2800 | | | | 8 |
| 9 | PWR PAC RM CD12 | | 100 | | E | 1 | 20 | | X | | 40 | 2 | E | | 2800 | | ACCU-3 | 10 |
| 11 | SPARE | | | 0 | | 1 | 20 | | | X | | | E | | | 2800 | | 12 |
| 13 | SPARE | 0 | | | | 1 | 20 | X | | | 40 | 2 | E | 2800 | | | ACCU-4 | 14 |
| 15 | SPARE | | 0 | | | 1 | 20 | | X | | | | E | | 2800 | | | 16 |
| 17 | SPARE | | | 0 | | 1 | 20 | | | X | 20 | 1 | R | | | 200 | OUTLETS | 18 |
| 19 | SPARE | 0 | | | | 1 | 20 | X | | | 20 | 1 | R | 200 | | | OUTLETS | 20 |
| 21 | SPARE | | 0 | | | 1 | 20 | | X | | 20 | 1 | R | | 200 | | OUTLETS | 22 |
| 23 | SPARE | | | 0 | | 1 | 20 | | | X | 20 | 1 | R | | | 200 | OUTLETS | 24 |
| 25 | SPARE | 0 | | | | 1 | 20 | X | | | 20 | 1 | R | 200 | | | FRIG | 26 |
| 27 | SPARE | | 0 | | | 1 | 20 | | X | | 20 | 1 | R | | 200 | | MICRO | 28 |
| 29 | SPARE | | | 0 | | 1 | 20 | | | X | 20 | 1 | R | | | 200 | OUTLETS | 30 |
| 31 | SPARE | 0 | | | | 1 | 20 | X | | | 20 | 1 | R | 200 | | | OUTLETS | 32 |
| 33 | SPARE | | 0 | | | 1 | 20 | | X | | 20 | 1 | R | | 200 | | OUTLETS | 34 |
| 35 | FCU-1 | | | 200 | E | 1 | 20 | | | X | 20 | 1 | R | | | 0 | OUTLETS | 36 |
| 37 | FCU-2 | 200 | | | E | 1 | 20 | X | | | 20 | 1 | R | 400 | | | OUTLETS | 38 |
| 39 | FCU-3 | | 200 | | E | 1 | 20 | | X | | 20 | 1 | S | | 0 | | SPARE | 40 |
| 41 | FCU-4 | | | 200 | E | 1 | 20 | | | X | 20 | 1 | S | | | 0 | SPARE | 42 |

| LOAD DESCRIPTION | CONNECTED (KVA) | D.F. | DEMAND (KVA) | SUBFED LOADS (KVA) | | CONNECTED | VA |
|---|---|---|---|---|---|---|---|
| LIGHTING | 1.3 | 1.00 | 1.3 | LIGHTING | 0.0 | PH A | 10500 |
| RECEPT (FIRST 10 KW) | 2.2 | 1.00 | 2.2 | RECEPT | 0.0 | PH B | 9800 |
| RECEPT (REMAINDER) | 0.0 | 0.50 | 0.0 | MOTORS | 0.0 | PH C | 6700 |
| MOTORS | 0.0 | 1.00 | 0.0 | EQUIP | 0.0 | | |
| LARGEST MOTOR | 0.0 | 1.25 | 0.0 | HEATING | 0.0 | TOTAL | KVA / AMPS |
| EQUIPMENT | 23.5 | 1.00 | 23.5 | | | CONNECTED | 27.0 / 74.9 |
| HEATING | 0.0 | 1.00 | 0 | | | DEMAND | 27.0 / 32.5 |
| TOTAL | 27.0 | | 27.0 | | | DESIGN | |

- [x] GROUND BUS
- [ ] ISOLATED GROUND BUS
- [x] 100% NEUTRAL BUS
- [ ] 200% NEUTRAL BUS
- [x] INTEGRAL TVSS

ISC = 10KAIC

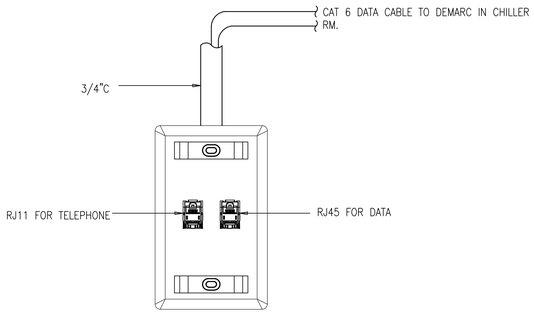
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| L | LIGHTING | M | MOTORS | E | EQUIPMENT | S | SUBFED |
| R | RECEPTACLE | LM | LARGEST MOTOR | H | HEATING | T | TRANSFORMER |




1 ELECTRICAL NORMAL DISTRIBUTION
NTS

## ELECTRICAL NOTES

1. CONTRACTOR SHALL FIELD LOCATE THE NEAREST TELEPHONE AND DATA CLOSET AND PROVIDE WIRING TO RESPECTIVE DEVICES.




2 TELEPHONE / DATA DETAIL
NTS

VA CONTRACT NO. VA69D-13-C-0324

| | |
|---|---|
| 100% BID SUBMITTAL | 08/28/2015 |
| 100% CD SUBMITTAL | 7/01/2015 |
| 100% CD SUBMITTAL | 3/20/2015 |
| 85% DD SUBMITTAL | 2/25/2015 |
| Revisions: | Date |

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Elk Grove Village, IL 60007
T: 847.932.9362 F: 847.932.9403

Drawing Title: ELECTRICAL POWER DISTRIBUITON AND DETAILS

Approved: Project Director

Project Title: RE-PURPOSE C-SECTION BASEMENT POOL AND ELECTRICAL ROOM

Location: HINES, ILLINOIS

Date: 07/01/2015 | Checked: PP | Drawn: YY

Project Number: 578-15-026

Building Number: 200

Drawing Number: E200

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

K:\CCG_PROJECTS\2013\13-126 - Hines option 2\400- Design Documents\402- Drawings\WORKING\578-15-026 POOL AND ELEC ROOM\578-15026-200-E-200.dwg 8-27-15 11:13:05 AM crollins