# DEPARTMENT OF VETERANS AFFAIRS
# BOSTON HEALTHCARE SYSTEM

## Bulk Oxygen Corrections

# CONSTRUCTION DOCUMENTS

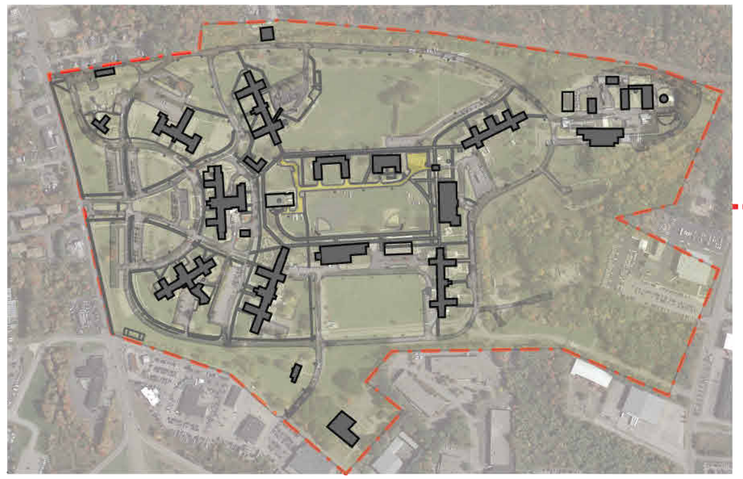
March 26, 2026

VA Project # 523-25-003
VA Contract # 36C24125R0010
VA PO # 523C7043

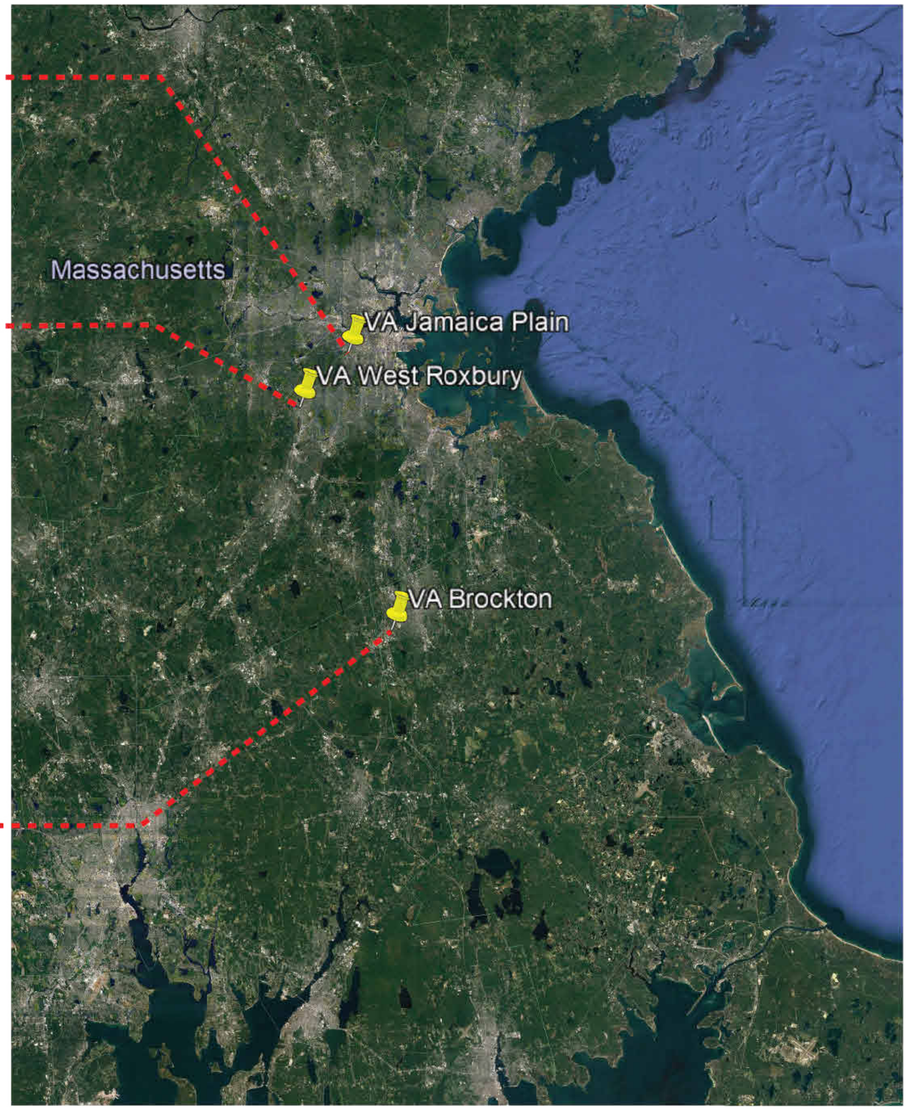
WPA Project # WPA1502

VAMC JAMAICA PLAIN- VOLUME 2

VAMC WEST ROXBURY - VOLUME 3



VAMC BROCKTON - VOLUME 1





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| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: COVER

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections

Location: VA Boston Healthcare System

Project Number: VA Project # 523-25-003; WPA Project # WPA1502

Medical Center: V1-VAMC Brockton; V2-VAMC Jamaica Plain; V3-VAMC West Roxbury

Issue Date: 03/26/2026

Checked:

Drawn:

Drawing Number: V0-GI000

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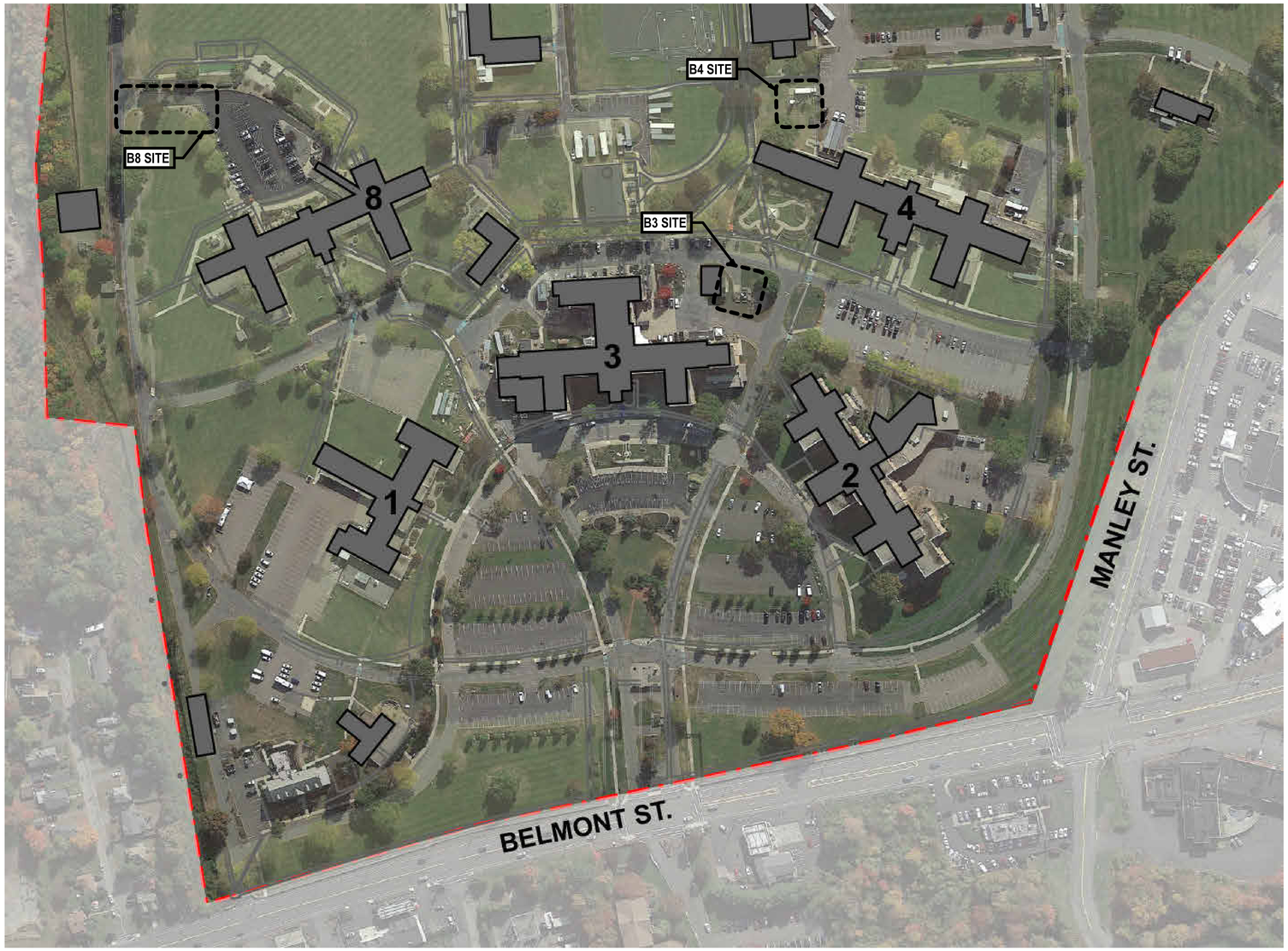
VA FORM 08 - 6231

# DEPARTMENT OF VETERANS AFFAIRS
# BOSTON HEALTHCARE SYSTEM

## Bulk Oxygen Corrections

940 Belmont Street, Brockton, MA 02301




# CONSTRUCTION DOCUMENTS
# VOLUME 1
# VAMC BROCKTON

March 26, 2026

VA Project # 523-25-003
VA Contract # 36C24125R0010
VA PO # 523C7043

WPA Project # WPA1502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| Revisions: | Date: |
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: COVER - VAMC BROCKTON
Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections
Location: Brockton VA Medical Center, VA Boston Healthcare System
Issue Date: 03/26/2026
Checked:
Drawn:

Project Number: VA Project # 523-25-003, WPA Project # WPA1502
Medical Center: VAMC Brockton
Drawing Number: V1-GI000

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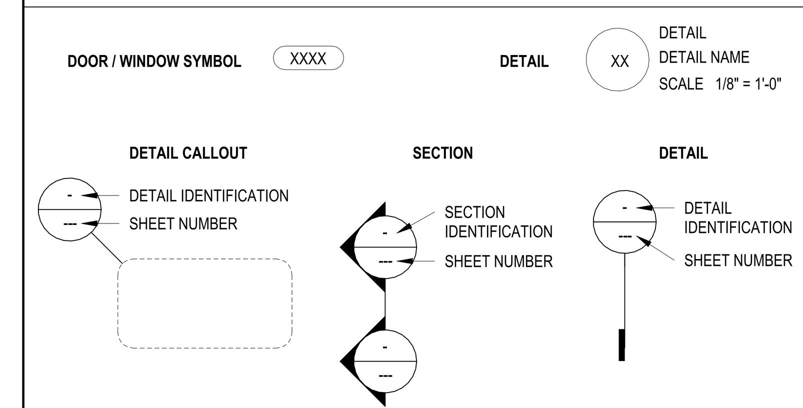
## ABBREVIATIONS

| | |
|---|---|
| & | AND |
| L | ANGLE |
| @ | AT |
| CL | CENTERLINE |
| Ø | DIAMETER |
| # | POUND |
| AD | AREA DRAIN |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| ALUM | ALUMINUM |
| ALT | ALTERNATE |
| AV | AUDIOVISUAL |
| AVB | AIR VAPOR BARRIER |
| BO | BOTTOM OF |
| BOT | BOTTOM |
| BOS | BOTTOM OF STEEL |
| B/T | BENCH TOP |
| B/W | BETWEEN |
| CC | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| CG | CORNER GUARD |
| CH | CEILING HEIGHT |
| CJ | CONTROL JOINT |
| CLG | CEILING |
| CMU | CONCRETE MASONRY UNIT |
| CO | CASED OPENING |
| COL | COLUMN |
| COMMS | COMMUNICATIONS |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| COORD | COORDINATE |
| CPT | CARPET |
| CR | CARD READER |
| CT | CERAMIC TILE |
| CUH | CABINET UNIT HEATER |
| CW | CURTAIN WALL |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| E | EAST |
| EIFS | EXTERIOR INSULATION & FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| EMER SHR | EMERGENCY SHOWER |
| EMERG | EMERGENCY |
| EP | ELECTRICAL PANEL |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EWS | EYE WASH STATION |
| EXIST | EXISTING |
| EXT | EXTERIOR |
| F/F | FACE TO FACE |
| FACP | FIRE ALARM CONTROL PANEL |
| FCO | FLOOR CLEANOUT |
| FCU | FAN COIL UNIT |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FDV | FIRE DEPARTMENT VALVE |
| FEC | FIRE EXTINGUISHER CABINET |
| FE | FIRE EXTINGUISHER |
| FF | FINISH FACE |
| FH | FIRE HYDRANT |
| FHC | FIRE HOSE CABINET |
| FHR | FIRE HOSE RACK |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FTR | FINNED TUBE RADIATION |
| G | GAS |
| GALV | GALVANIZED |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GFRG | GLASS FIBER REINFORCED GYPSUM |
| GWB | GYPSUM WALL BOARD |
| HB | HOSE BIBB |
| HORIZ | HORIZONTAL |
| HPT | HIGH POINT |
| HR | HOUR |
| HVAC | HEATING, VENTILATION, AIR CONDITIONING |
| HW | HOT WATER |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| IG | INSULATED GLASS |
| INT | INTERIOR |
| L | LEFT |
| LGMF | LIGHT GAUGE METAL FRAMING |
| LPT | LOW POINT |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MH | MANHOLE |
| MH | MENTAL HEALTH |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| N | NORTH |
| NIC | NOT IN CONTRACT |
| NRP | NON-REMOVABLE PIN |
| NTS | NOT TO SCALE |
| OA | OVERALL |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
| OF/CI | OWNER FURNISHED/CONTRACTOR INSTALLED |
| OFD | OVERFLOW DRAIN |
| OPH | OPPOSITE HAND |
| O | OXYGEN |
| R | RISER |
| RCP | REFLECTED CEILING PLAN |
| RD | ROOF DRAIN |
| REINF | REINFORCED |
| REQ/REQ'D | REQUIRED |
| RM | ROOM |
| RO | ROUGH OPENING |
| RWL | RAIN WATER LEADER |
| S | SOUTH |
| SIM | SIMILAR |
| SOG | SLAB ON GRADE |
| SST | STAINLESS STEEL |
| STRUC | STRUCTURAL |
| TD | TRENCH DRAIN |
| TO | TOP OF |
| TOC | TOP OF CONCRETE SLAB |
| TOS | TOP OF STEEL |
| TOW | TOP OF WALL |
| TPO | THERMOPLASTIC POLYOLEFIN |
| TYP | TYPICAL |
| UL | UNDERWRITERS LABORATORIES |
| UON | UNLESS OTHERWISE NOTED |
| VC | VA FURNISHED, CONTRACTOR INSTALLED |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| VV | VA FURNISHED, VA INSTALLED |
| W | WEST |
| WH | WALL HYDRANT |

## GENERAL NOTES

1. CONTRACTOR SHALL NOT SHUT-OFF AND/OR INTERRUPT O2 SUPPLY TO HOSPITAL WITHOUT EXPLICIT WRITTEN PERMISSION FROM THE AUTHORIZED VA COR. CONTRACTOR SHALL BE REQUIRED TO COORDINATE TEMPORARY O2 SUPPLY FOR ALL SHUTDOWN(S) USING THE VA FACILITY SUPPLIERS. ALL REQUEST(S) FOR SHUT DOWN SHALL BE MADE MIN. OF 2 WEEKS IN ADVANCE.
2. CONTRACTOR SHALL PREPARE AND REVIEW WORK PLAN WITH THE VA COR AND PROVIDE ADDITIONAL DOCUMENTATION AS REQUIRED BY VA PRIOR TO START OF WORK.
3. CONTRACTOR IS REQUIRED TO PROVIDE GROUND PENETRATING RADAR SCANS OF ALL AREAS WHERE EXCAVATION IS REQUIRED. CONTRACTOR SHALL NOTIFY THE COR OF ANY POTENTIAL CONFLICTS.
4. CONTRACTOR TO NOTIFY COR OF BELOW GRADE CONFLICTS WITH NEW LAYOUT AND ADJUST LOCATION OF PIERS AND FOUNDATIONS TO ACCOMMODATE.
5. DO NOT SCALE DRAWINGS.
6. DIMENSIONS ARE INTENDED TO COMMUNICATE DESIGN INTENT ONLY AND SHALL NOT BE USED FOR THE PURPOSES OF FABRICATION OR INSTALLATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS INDICATED ON DRAWINGS PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR TO NOTE TERMS SUCH AS "FLUSH," "ALIGN," "MATCH," "CENTER" AND SIMILAR AS THESE TAKE PRECEDENT OVER DIMENSIONAL NOTATION AND SCHEDULED SYSTEMS.
7. CONTRACTOR SHALL INSTALL MATERIALS IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. SUBMITTAL SHOP DRAWINGS:
   A. ORIGINAL DRAWINGS SHALL BE PREPARED BY CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR, WHICH ILLUSTRATE SOME PORTION OF THE WORK, SHOWING FABRICATION, LAYOUT, SETTING, OR ERECTION OF DETAILS.
   B. SHOP DRAWINGS SHALL BE PREPARED BY A QUALIFIED DETAILER.
   C. DETAILS SHALL BE IDENTIFIED BY REFERENCE TO SHEET AND DETAIL NUMBERS INDICATED ON CONTRACT DRAWINGS.
   D. DO NOT REPRODUCE CONTRACT DOCUMENTS.
   E. THE CONTRACTOR SHALL COORDINATE ALL SUCH DRAWINGS, AND REVIEW THEM FOR ACCURACY, COMPLETENESS, AND COMPLIANCE WITH CONTRACT REQUIREMENTS AND SHALL INDICATE ITS APPROVAL THEREON AS EVIDENCE OF SUCH COORDINATION AND REVIEW.
9. CONTRACT LIMIT LINES SHALL BE WHERE INDICATED ON THE DRAWINGS. HOWEVER, IN ORDER TO COMPLETE OR FACILITATE INDICATED WORK, CONTRACTOR MAY BE REQUIRED TO CARRY OUT WORK ADJACENT TO, BUT OUTSIDE INDICATED LIMITS. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS TO BUILDINGS TO COORDINATE WORK.
10. PROVIDE SECURE CONSTRUCTION FENCING AROUND ALL AREA OF CONSTRUCTION, EXCAVATION, AND STORAGE AREAS.
11. THE DEPARTMENT OF VETERANS AFFAIRS IS THE AUTHORITY HAVING JURISDICTION. THE MASSACHUSETTS OFFICE OF PUBLIC SAFETY AND INSPECTION NOR THE LOCAL INSPECTIONAL SERVICES HAS JURISDICTION OVER THIS PROJECT. THE PROJECT HAS BEEN DESIGNED TO MEET NFPA AND CERTAIN CRITERIA OF MA BUILDING CODES AS NOTED.

## SYMBOLS




## LINETYPES

OVERHEAD (OVERCOUNTER AND SOFFITS)

BELOW AND BEYOND (UNDERCOUNTER AND FOOTINGS)

REFERENCE (COLUMN LINES AND MATCHLINES)

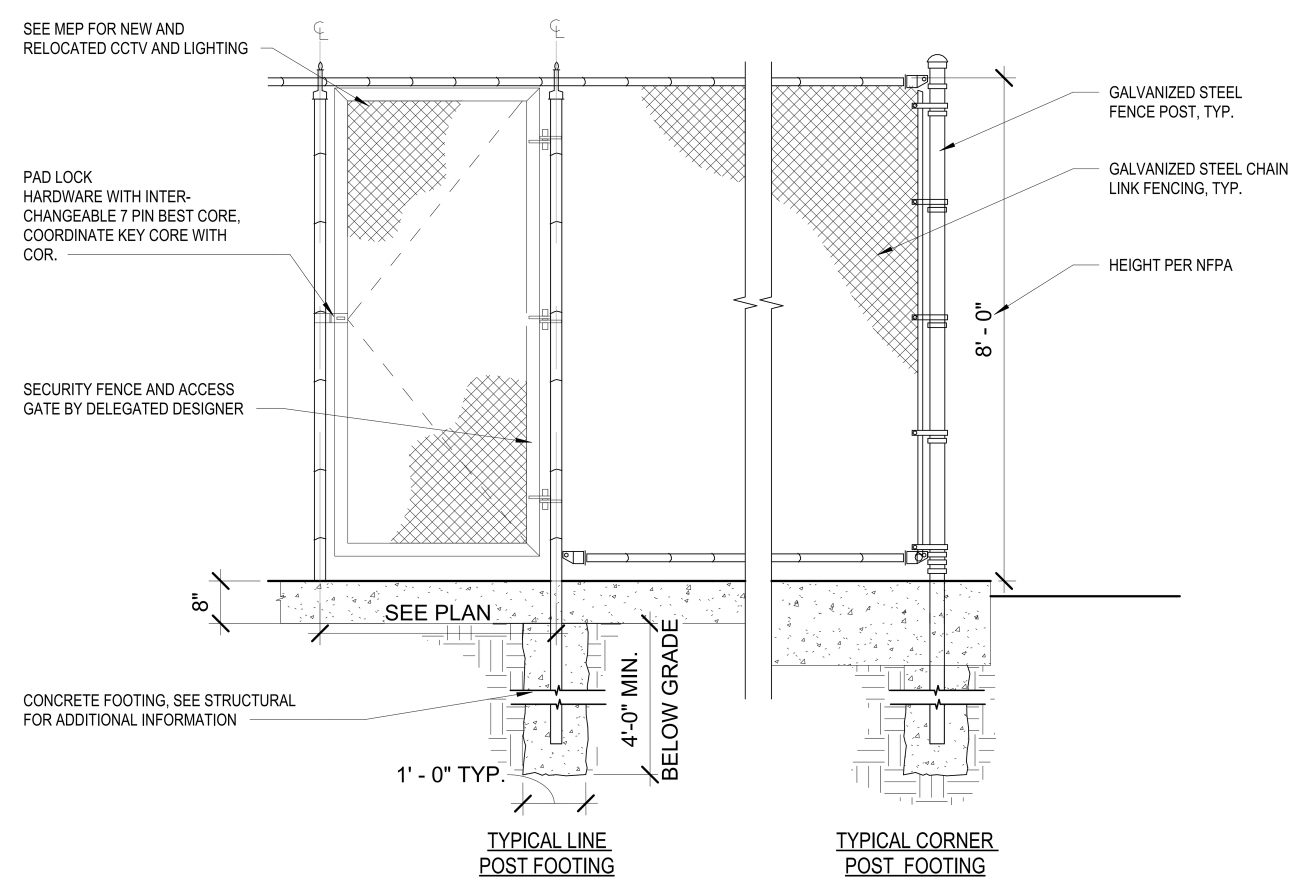
BREAK LINE

DOCUMENT REVISION

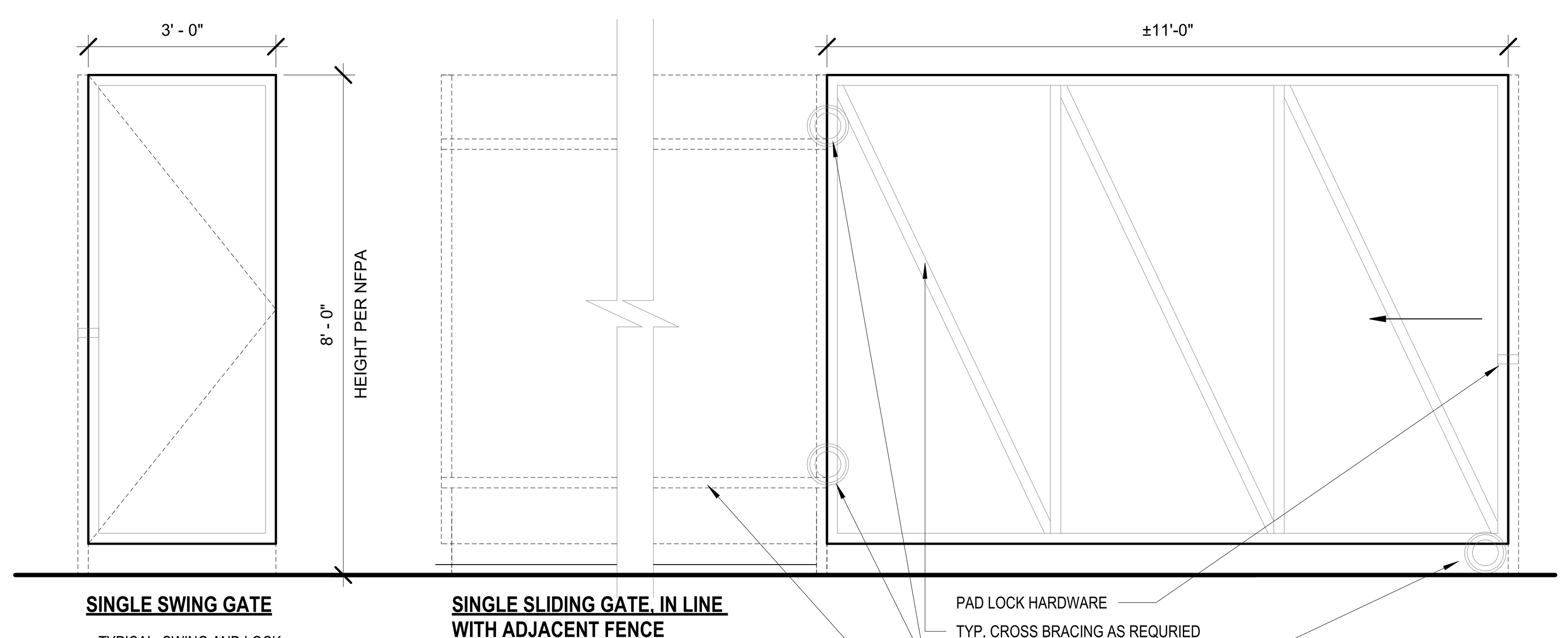
LIMIT OF WORK

## SHEET LIST

| Sheet Number | Sheet Name |
|---|---|
| GENERAL INFORMATION | |
| V1-GI000 | COVER - VAMC BROCKTON |
| V1-GI001 | GENERAL NOTES, PROJECT INFORMATION, SHEET LIST |
| CIVIL | |
| V1-C101 | SITE DEMOLITION PLAN BUILDING 3 |
| V1-C102 | SITE DEMOLITION PLAN BUILDING 4 & 8 |
| V1-C201 | CIVIL LAYOUT PLAN BUILDING 3 |
| V1-C202 | CIVIL LAYOUT PLAN BUILDING 4 & 8 |
| V1-C301 | CIVIL DETAILS |
| STRUCTURAL | |
| V1-ST101 | STRUCTURAL DETAILS |
| V1-ST102 | STRUCTURAL DETAILS |
| PLUMBING | |
| V1-P001 | PLUMBING LEGEND |
| V1-P201 | PLUMBING PLAN |
| ELECTRICAL | |
| V1-E201 | ELECTRICAL PLAN BUILDING 3, 4, AND 8 |
| 12 | |




02 CHAIN LINK FENCE DETAIL
SCALE: 1/2" = 1'-0"




**SINGLE SWING GATE**

TYPICAL, SWING AND LOCK SIDE MIRROR AS PER SPECIFIC INSTALLATION.

HARDWARE:
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE

**SINGLE SLIDING GATE, IN LINE WITH ADJACENT FENCE**

TYPICAL, LOCK SIDE MIRROR AS PER SPECIFIC INSTALLATION.

HARDWARE:
- ROLLER SLIDE
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE
- PROVIDE ROLLER TRACKS AND ROLLER WHEEL

## Gate Schedule - Brockton

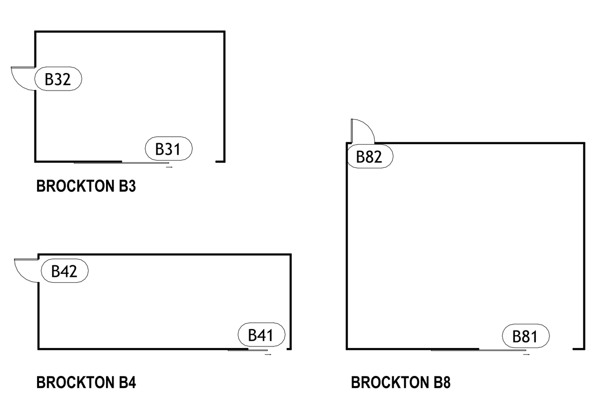
| Mark | Width | Material | Hardware | Gate Type |
|---|---|---|---|---|
| B31 | 12' - 0" | GALV. STEEL CHAIN LINK | HW-2 | Single Sliding |
| B32 | 3' - 0" | GALV. STEEL CHAIN LINK | HW-1 | Single Swing |
| B41 | 5' - 0" | GALV. STEEL CHAIN LINK | HW-2 | Single Sliding |
| B42 | 3' - 0" | GALV. STEEL CHAIN LINK | HW-1 | Single Swing |
| B81 | 12' - 0" | GALV. STEEL CHAIN LINK | HW-2 | Single Sliding |
| B82 | 3' - 0" | GALV. STEEL CHAIN LINK | HW-1 | Single Swing |

### HARDWARE TYPES:

HW-1
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE

HW-2
- ROLLER SLIDE
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE
- PROVIDE ROLLER TRACKS AND ROLLER WHEEL

### GATE NUMBERS:




01 GATE SCHEDULE & LEGENDS - BROCKTON
SCALE: 1/2" = 1'-0"

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Office of Construction and Facilities Management

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Key Plan

Drawing Title: GENERAL NOTES, PROJECT INFORMATION, SHEET LIST

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections

Project Number: VA Project # 523-25-003, WPA Project # WPA1502

Location: Brockton VA Medical Center, VA Boston Healthcare System

Medical Center: VAMC Brockton

Issue Date: 03/26/2026

Checked

Drawn

Drawing Number: V1-GI001

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## GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS", PREPARED FOR WILLIAM PEVEAR ARCHITECTS, PREPARED BY NITSCH ENGINERING, DATED MARCH 3, 2025.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25023C0166J, EFFECTIVE DATE 07/17/2012 AND 25023C0158J, EFFECTIVE DATE 07/17/2012. THE SITE IS LOCATED IN ZONE X.
3. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE. THE CONTRACTOR TO PROVIDE GPR SCAN TO CONFIRM/LOCATE AND IDENTIFY BELOW GRADE INFRASTRUCTURE.
4. THE CONTRACTOR TO COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
8. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
10. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
12. ELEVATIONS REFER TO BOSTON CITY BASE.

## EROSION AND SEDIMENT CONTROL NOTES:

1. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
3. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
4. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
5. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
7. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSIVE CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
8. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
9. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
10. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUDED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
12. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
13. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
14. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE VA. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

## DEMOLITION NOTES:

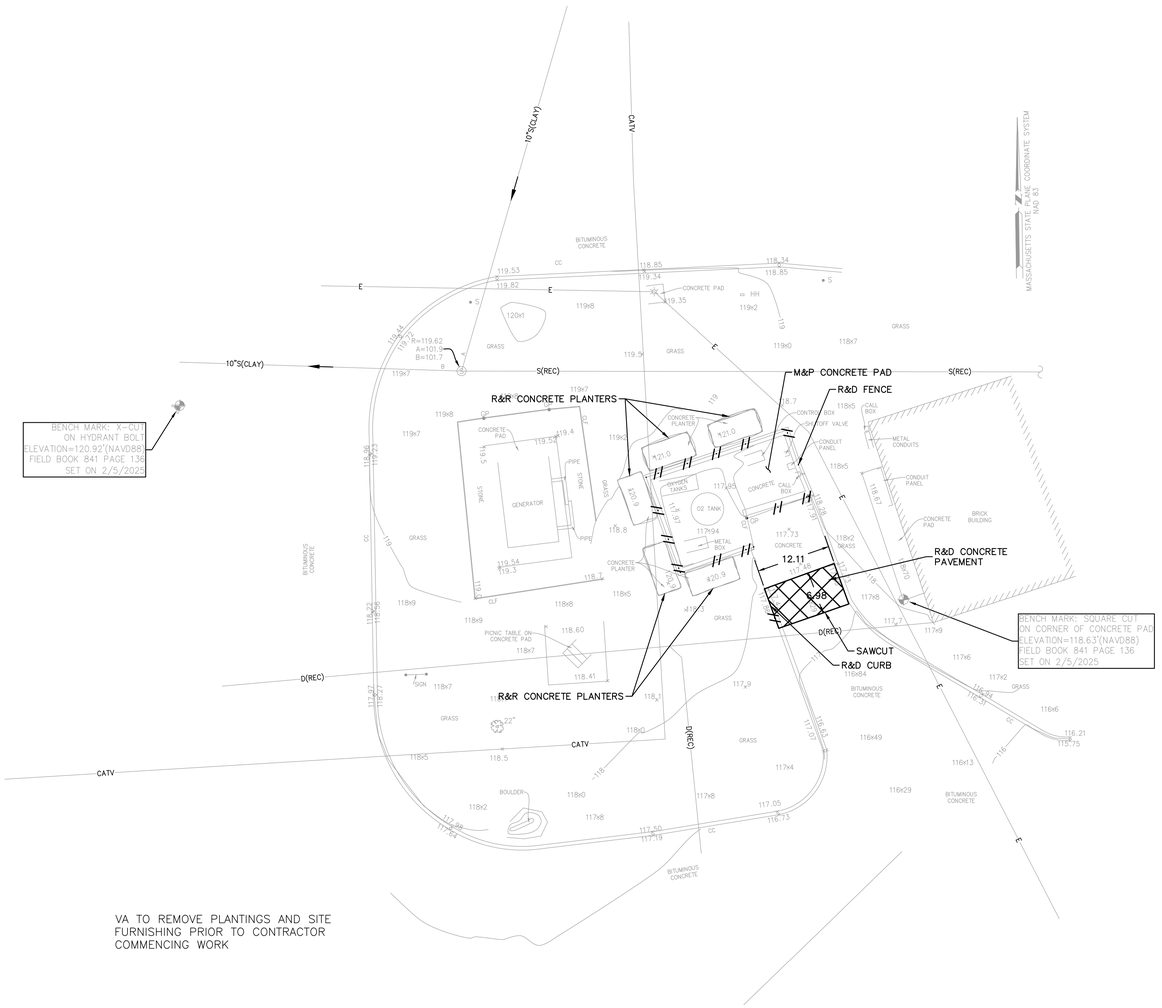
1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

## PROPOSED LEGEND

- LIMIT OF WORK
- EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
- EROSION CONTROL BARRIER
- CONSTRUCTION FENCE
- W — DOMESTIC WATER PIPE
- FP — FIRE PROTECTION PIPE
- S — SANITARY SEWER PIPE
- SFM — SEWER FORCE MAIN PIPE
- DFM — DRAIN FORCE MAIN PIPE
- D — STORM DRAIN PIPE
- G — GAS PIPE
- E — ELECTRIC DUCTBANK
- T/C — TELECOM DUCTBANK
- CW — CHILLED WATER PIPE
- STM — STEAM PIPE
- CR — CONDENSATE RETURN PIPE
- HW — HOT WATER PIPE/RETURN
- HHW — HEATING HOT WATER
- RW — REUSE WATER PIPE
- GW — GREY WATER PIPE
- X — FUTURE UTILITY, SHOWN FOR INFORMATION ONLY
- INLET PROTECTION
- ELEVATION CONTOURS
- MATCH LINE
- CENTERLINE
- CO — CLEANOUT
- AREA DRAIN
- ACCESS BASIN
- DRAIN MANHOLE
- WATER QUALITY STRUCTURE
- CATCH BASIN
- DOUBLE CATCH BASIN
- WATER QUALITY INLET
- SEWER MANHOLE
- STMH — STEAM MANHOLE
- TMH — TELECOM MANHOLE
- EMH — ELECTRIC MANHOLE
- CWV — CHILLED WATER VALVE
- WV — WATER VALVE
- HYD — FIRE HYDRANT

## ABBREVIATIONS

| | |
|---|---|
| AB | ACCESS BASIN |
| AD | AREA DRAIN |
| BC | BOTTOM OF CURB ELEVATION |
| BW | BOTTOM OF WALL ELEVATION |
| CB | CATCH BASIN |
| CCB | CAPE COD BERM |
| CI | CAST IRON |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CO | CLEANOUT |
| COP | CENTER OF PIPE |
| CLDI | CEMENT LINED DUCTILE IRON PIPE |
| CP | CARRIER PIPE |
| CPP | CORRUGATED POLYETHYLENE PIPE |
| DCB | DOUBLE CATCH BASIN |
| DMH | DRAIN MANHOLE |
| EHH | ELECTRIC HANDHOLE |
| EJ | EXPANSION JOINT |
| EMH | ELECTRIC MANHOLE |
| FD | FOUNDATION DRAIN |
| FFE | FINISHED FLOOR ELEVATION |
| HP | HIGH POINT |
| HYD | FIRE HYDRANT |
| INV | INVERT ELEVATION |
| LF | LINEAR FEET |
| LOW | LIMIT OF WORK |
| LP | LOW POINT |
| LW | LAB WASTE |
| M&P | MAINTAIN AND PROTECT |
| NIC | NOT IN CONTRACT |
| OC | ON CENTER |
| OCS | OUTLET CONTROL STRUCTURE |
| PD | PERIMETER DRAIN |
| PERF | PERFORATED |
| PVC | POLYVINYL CHLORIDE PIPE |
| R&D | REMOVE AND DISPOSE |
| R&R | REMOVE AND REUSE |
| R&S | REMOVE AND STOCKPILE |
| RD | ROOF DRAIN |
| RIM | RIM ELEVATION |
| SMH | SEWER MANHOLE |
| SS | SEWER SERVICE |
| TC | TOP OF CURB ELEVATION |
| TW | TOP OF WALL ELEVATION |
| THH | TELECOM HANDHOLE |
| TMH | TELECOM MANHOLE |
| TOP | TOP OF PIPE |
| TOD | TOP OF DUCT BANK |
| TYP | TYPICAL |
| UD | UNDERDRAIN |
| USD | UNDERSLAB DRAIN |
| VGC | VERTICAL GRANITE CURB |
| WQI | WATER QUALITY INLET |
| WQS | WATER QUALITY STRUCTURE |
| WV | WATER VALVE |




VA TO REMOVE PLANTINGS AND SITE FURNISHING PRIOR TO CONTRACTOR COMMENCING WORK

BUILDING 3 SITE DEMOLITION PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

| Revisions: | Date: |
|---|---|
| | |

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**STAMP**

Office of Construction and Facilities Management
VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
SITE DEMOLITION PLAN
BUILDING 3

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

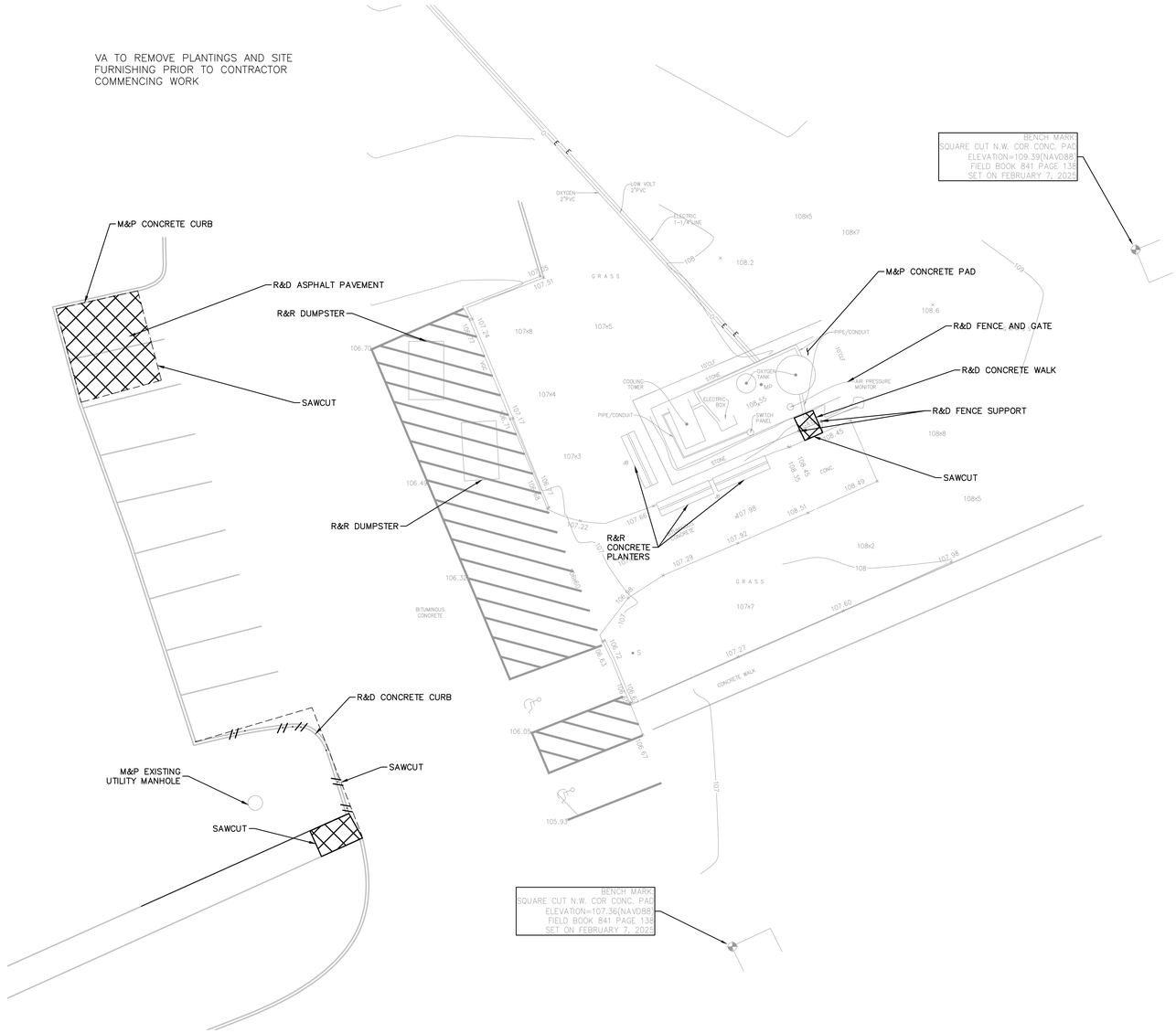
**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn |
|---|---|---|
| 03/26/2026 | JMS | JRD |

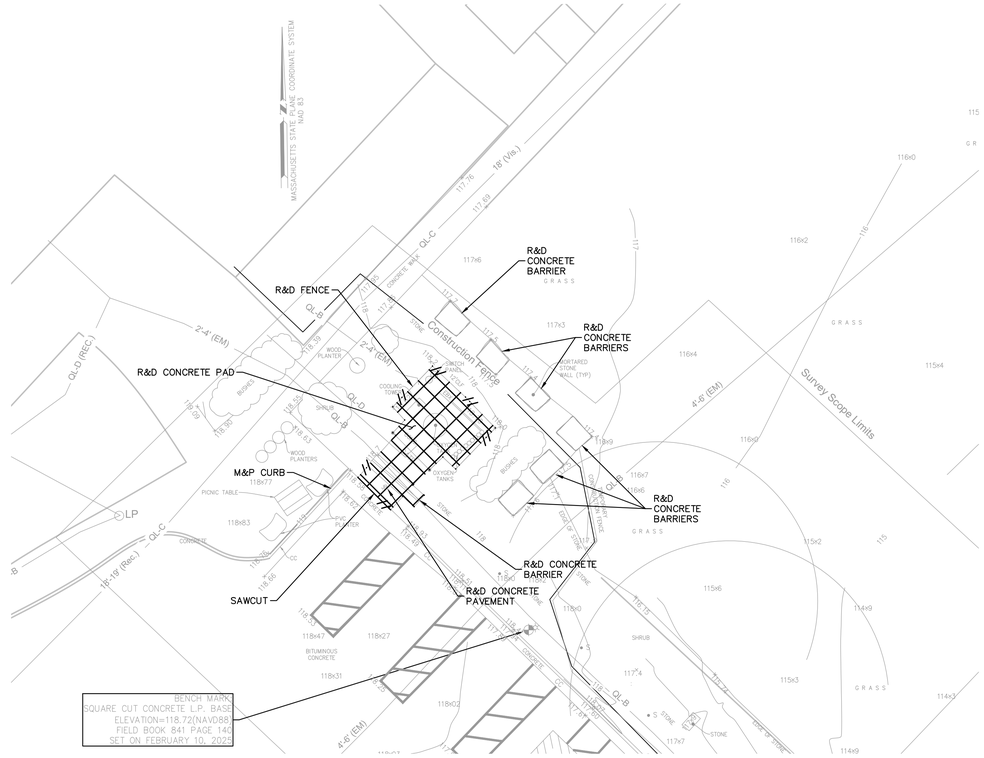
**Drawing Number**
V1-C101

VA FORM 08 - 6231

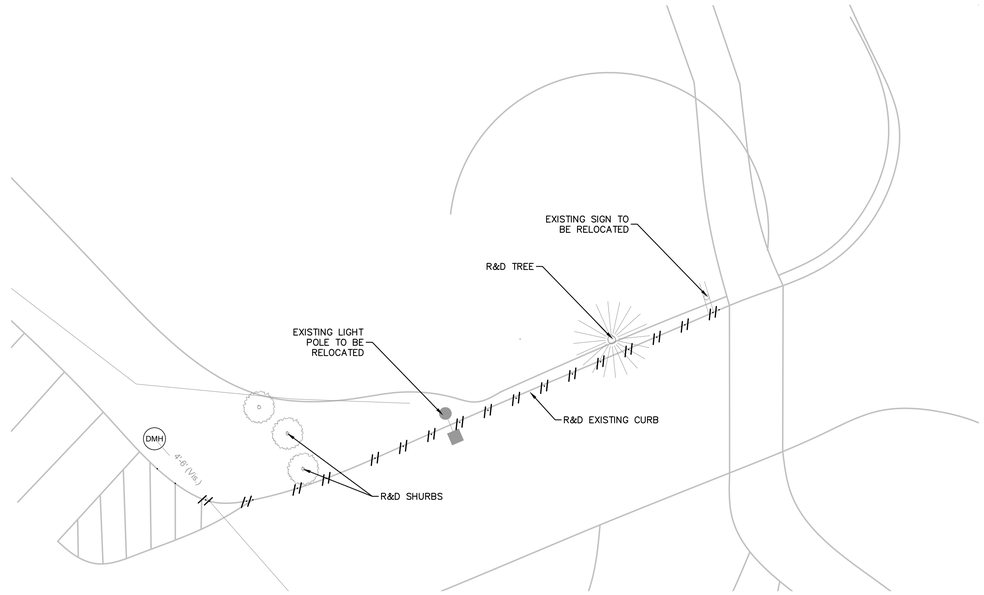
VA TO REMOVE PLANTINGS AND SITE FURNISHING PRIOR TO CONTRACTOR COMMENCING WORK




BUILDING 4 SITE DEMOLITION PLAN




BUILDING 8 (OLD LOCATION)
SITE DEMOLITION PLAN




BUILDING 8 (NEW LOCATION)
SITE DEMOLITION PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
SITE DEMOLITION PLAN
BUILDING 4 & 8

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Brockton

**Issue Date** 03/26/2026
**Checked** JMS
**Drawn** JRD

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Drawing Number**
V1-C102

VA FORM 08 - 6231

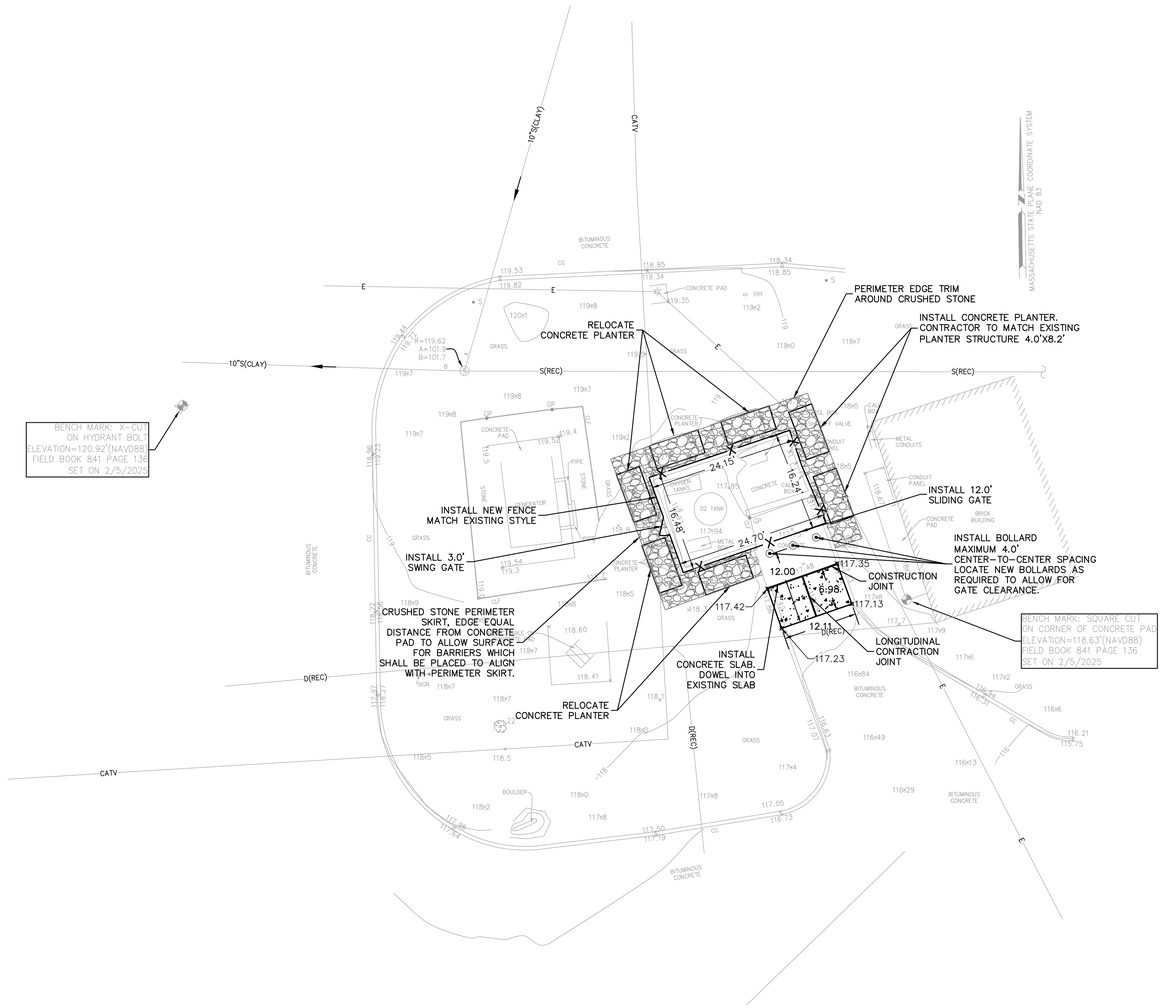
## EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%.
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
6. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
8. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING.
11. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
12. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
16. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO OWNER.
17. CONTRACTOR SHALL ADJUST LOCATIONS OF FENCE POST AND/OR BOLLARDS TO ACCOMMODATE BELOW GRADE INFRASTRUCTURE AS REQUIRED. MAINTAIN MIN SPACING AND ADJUST MULTIPLE AS REQUIRED TO MAINTAIN MIN. SPACING INDICATED AND AS PER MANUFACTURES INSTALLATION RECOMMENDATIONS. NOTIFY COR OF ANY DISCREPANCIES.

## ADDITIONAL NOTES:

1. RESTRIPE IN KIND FOR DISTURBED PAVEMENT AREAS

CONCRETE PLANTER AT BUILDING 3




BUILDING 3 SITE LAYOUT PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
CIVIL LAYOUT PLAN BUILDING 3

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

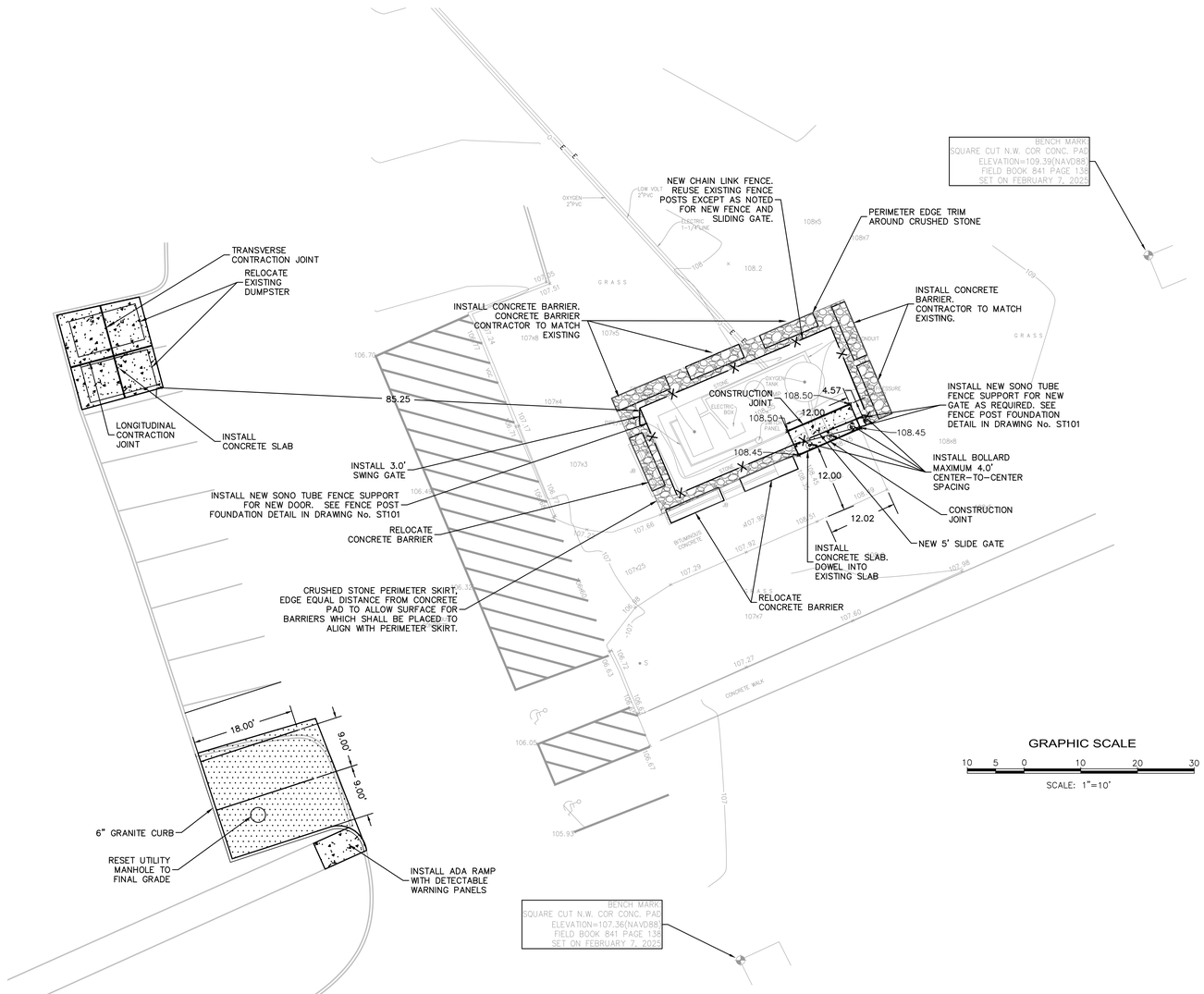
**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

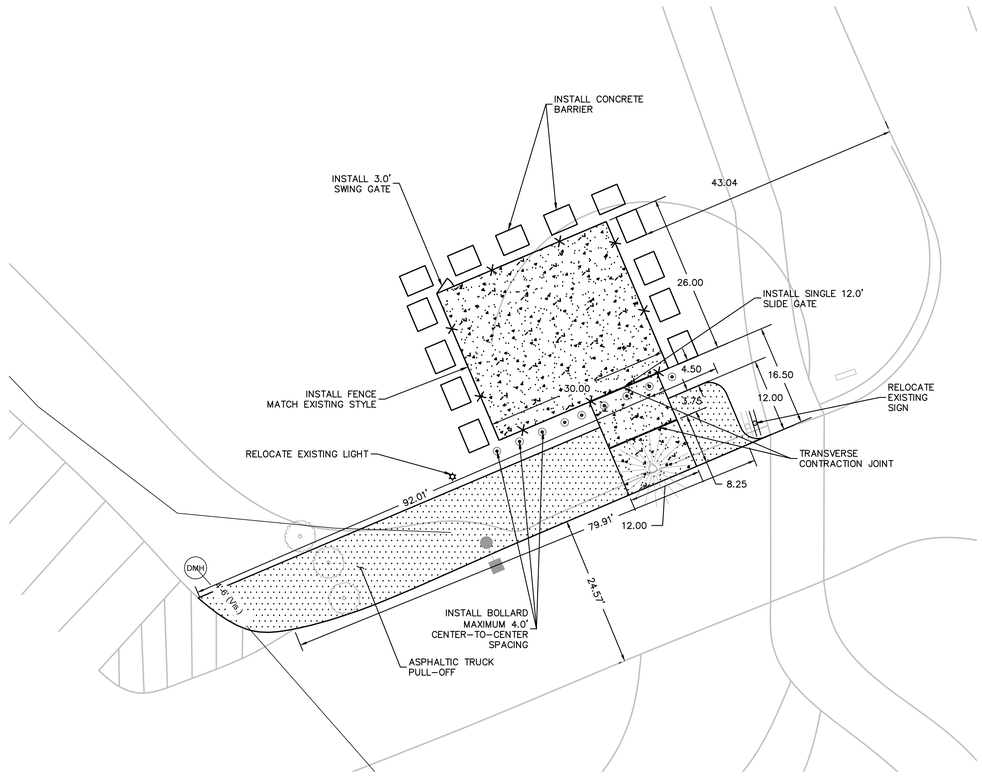
**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | JMS | JRD | V1-C201 |

VA FORM 08 - 6231




BUILDING 4 SITE LAYOUT PLAN




BUILDING 8 SITE LAYOUT PLAN

BARRIER AT BUILDING 4

| Revisions: | Date: |
|---|---|
| | |

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**Key Plan**

**Drawing Title**
CIVIL LAYOUT PLAN BUILDING 4 & 8

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | JMS | JRD | V1-C202 |

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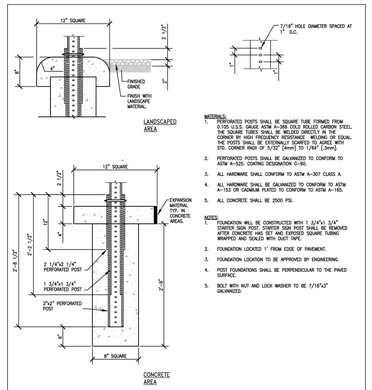
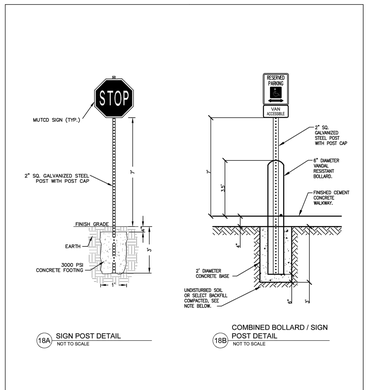
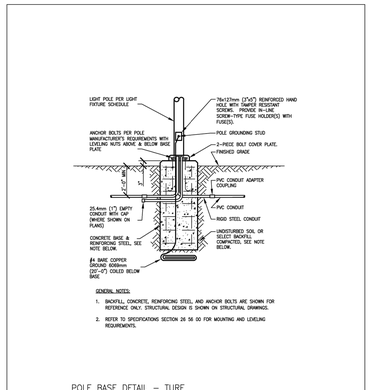



17 SIGN POST DETAIL SQUARE TUBE FOUNDATION
NOT TO SCALE

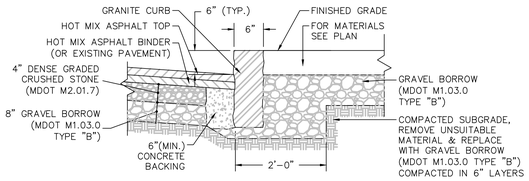



18A SIGN POST DETAIL
NOT TO SCALE

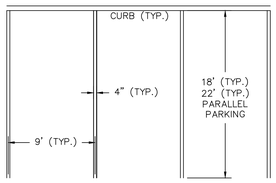
18B COMBINED BOLLARD / SIGN POST DETAIL
NOT TO SCALE




41 POLE BASE DETAIL – TURF AREAS – OPTION 1
NOT TO SCALE



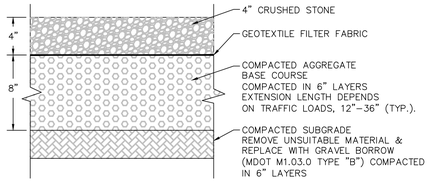

TYPICAL PAVEMENT AND GRANITE CURB SECTION DETAIL
NOT TO SCALE



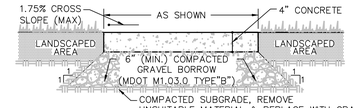

NOTE:

STRIPING SHALL BE INSTALLED PER SPECIFICATIONS

TYPICAL PARKING STRIPING DETAIL
NOT TO SCALE

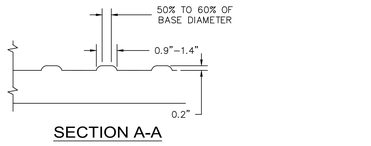



CRUSHED STONE PERIMETER SKIRT DETAIL
NOT TO SCALE

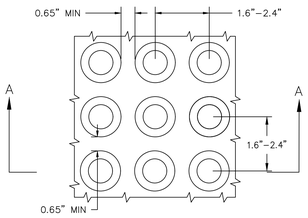



NOTES:
1. CONTRACTOR SHALL INSTALL AN EXPANSION JOINT AT ALL BUILDINGS AND ALL SIDEWALK INTERSECTIONS OR AT START OF CURVED SECTIONS AND SHALL INSTALL LATERAL CONTROL JOINTS AS REQUIRED (8'–0" MAX. SPACING). SLOPE SIDEWALK AS SHOWN ON PLANS OR ROADWAY SECTIONS (MINIMUM SLOPE = 1% )
2. CONCRETE SHALL BE 4000 PSI.

CONCRETE WALKWAY DETAIL
NOT TO SCALE



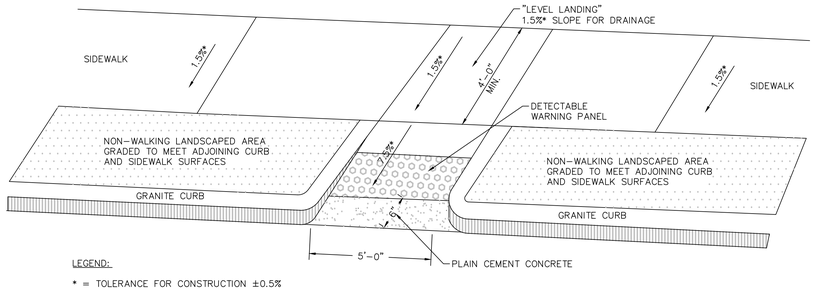

SECTION A-A




NOTES:
1. DETECTABLE WARNING PANELS SHALL BE PERMANENTLY APPLIED TO THE RAMP.
2. DETECTABLE WARNING PANELS SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKWAY SURFACES PER THE FOLLOWING COLOR SCHEDULE:
   - PALE YELLOW ON CEMENT CONCRETE PEDESTRIAN RAMPS
3. DETECTABLE WARNING PANELS SHALL BE AS MANUFACTURED BY ADA SOLUTIONS, INC. OF NORTH BILLERICA, MA OR AN APPROVED EQUAL.
4. DETECTABLE WARNING PANELS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

DETECTABLE WARNING PANEL

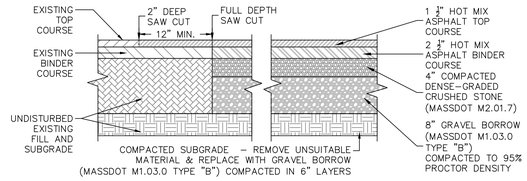
DETECTABLE WARNING PANEL FOR PEDESTRIAN RAMPS DETAIL
NOT TO SCALE



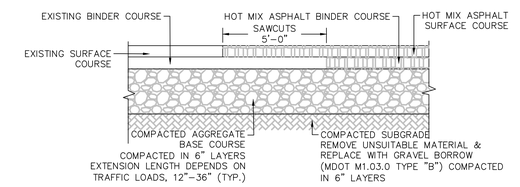

LEGEND:

* = TOLERANCE FOR CONSTRUCTION ±0.5%

ACCESSIBLE RAMP WITH RETURNED SIDES DETAIL
NOT TO SCALE




HOT MIX ASPHALT PAVING (TWO COURSES) DETAIL
NOT TO SCALE




PAVEMENT MATCHING DETAIL
NOT TO SCALE

| Office of Construction and Facilities Management | Construction Standards | BROCKTON VAMC<br>940 BELMONT STREET<br>BROCKTON, MA 02401 | Drawing Title<br>SIGN POST DETAIL<br>SQUARE TUBE<br>FOUNDATION | Issue Date<br>3-29-19<br>Drawing No.<br>17 |
|---|---|---|---|---|
| VA U.S. Department of Veterans Affairs | | | | |

| Office of Construction and Facilities Management | Construction Standards | BROCKTON VAMC<br>940 BELMONT STREET<br>BROCKTON, MA 02401 | Drawing Title<br>SIGN POST DETAILS | Issue Date<br>3-29-19<br>Drawing No.<br>18 |
|---|---|---|---|---|
| VA U.S. Department of Veterans Affairs | | | | |

| Office of Construction and Facilities Management | Construction Standards | BROCKTON VAMC<br>940 BELMONT STREET<br>BROCKTON, MA 02401 | Drawing Title<br>POLE BASE DETAIL - TURF AREAS - OPTION 1 | Issue Date<br>3-29-19<br>Drawing No.<br>41 |
|---|---|---|---|---|
| VA U.S. Department of Veterans Affairs | | | | |

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
CIVIL DETAILS

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | JMS | JRD | V1-C301 |

VA FORM 08 - 6231

## STRUCTURAL NOTES:

DESIGN
IN ACCORDANCE WITH:
1. 2023 U.S. DEPARTMENT OF VETERANS AFFAIRS STRUCTURAL DESIGN MANUAL (PG-18-10)
2. 2023 NFPA 55: COMPRESSED GASES AND CRYOGENIC FLUIDS CODE

FOUNDATIONS & STRUCTURAL SLABS
FOUNDATIONS AND STRUCTURAL SLABS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE PRIOR APPROVAL OF THE COR.

ALL FOUNDATIONS AND SLABS SHALL BEAR ON SUITABLE COMPACTED EXISTING SOIL OR COMPACTED GRAVEL FILL. NO FOUNDATIONS OR SLABS SHALL BE CAST IN WATER OR ON FROZEN GROUND.

LAYOUT COORDINATION
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS VIA SURVEY, FIELD MEASUREMENTS, TEST PROBES, TEST PITS, AND ANY OTHER MEANS PRIOR TO CONSTRUCTION.

UNSUITABLE MATERIAL
ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE PROPOSED STRUCTURE TO A MINIMUM DEPTH OF 12" BELOW THE STRUCTURE AND BE DISPOSED OF LEGALLY, AS DIRECTED BY THE COR.

CONCRETE
ALL CONCRETE SHALL BE READY-MIXED AND COMPLY WITH ACI 318 AND ASTM C94. ANCHOR RODS SHALL BE ASTM F1554 GRADE 55, SHALL COMPLY WITH ACI 318 AND BE GALVANIZED PER ASTM A153.

THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 5000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00, UNLESS OTHERWISE NOTED.

FOR BOLLARDS, BOLLARD FOUNDATIONS, AND FENCE POST FOUNDATIONS, THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 3000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00.

NON-SHRINK GROUT TO COMPLY WITH ASTM C1107.

REINFORCEMENT
1. REINFORCING STEEL AND DOWELS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

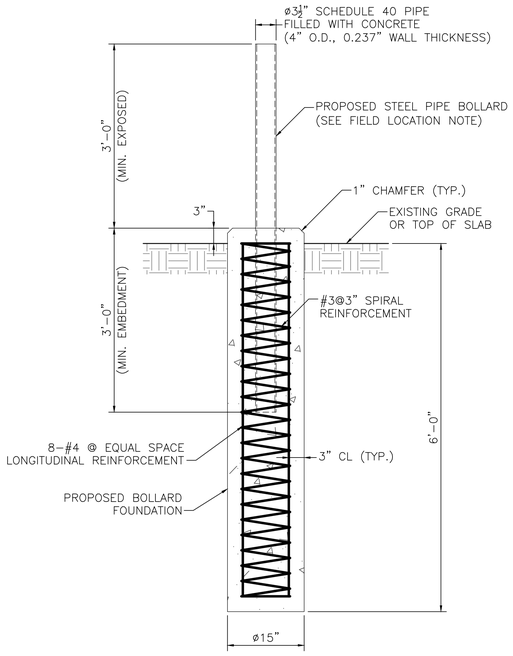
| MODIFICATION CONDITION | #4 BARS | #5 BARS |
|---|---|---|
| 1. NONE | 16" | 17" |
| 2. 12" OF CONCRETE BELOW BAR | 18" | 22" |
| 3. COATED BARS, COVER < $3d_b$, OR CLEAR SPACING < $6d_b$ | 21" | 26" |
| 4. COATED BARS, ALL OTHER CASES | 17" | 21" |
| 5. CONDITION 2. AND 3. | 23" | 29" |
| 6. CONDITION 2. AND 4. | 21" | 27" |

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS. REINFORCING STEEL SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE BOTTOM AND SIDE FACES OF CONCRETE AND SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE TOP FACE OF CONCRETE, UNLESS OTHERWISE SHOWN ON THE PLANS.

2. REINFORCING STEEL AND DOWELS SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775.
3. THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE REINFORCING BAR LAYOUT AND LOCATIONS OF ALL JOINTS FOR REVIEW AND APPROVAL OF THE COR.

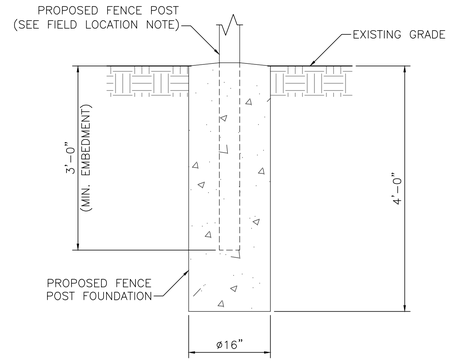
STEEL PIPE BOLLARD:
STEEL PIPE BOLLARDS SHALL BE ASTM A53 TYPE S GRADE A GALVANIZED STEEL.

BOLLARDS SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO. 1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS, AND STRIPES CONSISTING OF 4" BANDS OF YELLOW REFLECTORIZED TAPE.

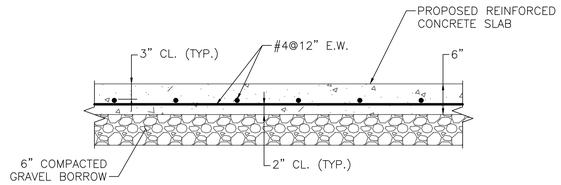



BOLLARD DETAIL
SCALE: 1" = 1'-0"

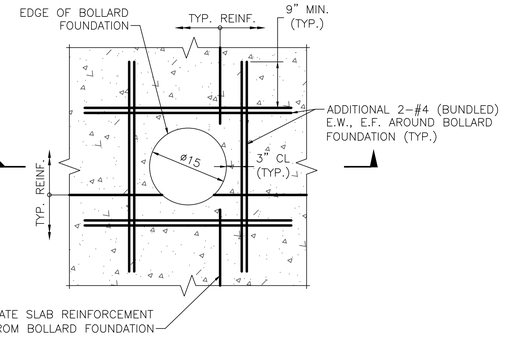
FIELD LOCATION NOTE:
REFERENCE GENERAL NOTES IN DRAWING No. C101 FOR FIELD LOCATION ADJUSTMENTS TO ACCOMMODATE UTILITIES OR OTHER INFRASTRUCTURE BELOW GRADE, AS REQUIRED.



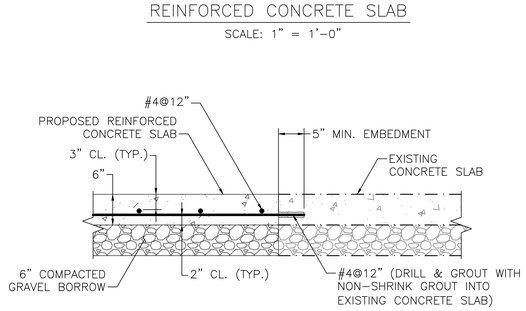

FENCE POST FOUNDATION DETAIL
SCALE: 1" = 1'-0"




TYPICAL SECTION
REINFORCED CONCRETE SLAB
SCALE: 1" = 1'-0"

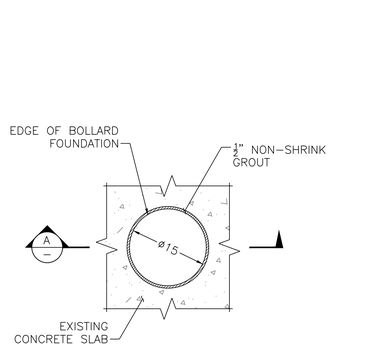



DETAIL
BOLLARD THROUGH PROPOSED CONCRETE SLAB
SCALE: 1" = 1'-0"

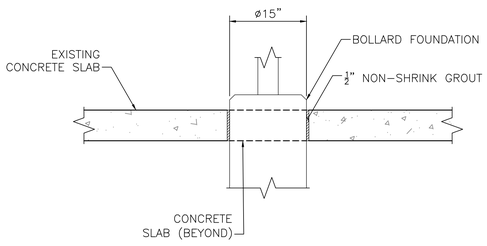



NOTE:
THIS DETAIL IS APPLICABLE AT LOCATIONS WHERE AN EXTENSION TO AN EXISTING CONCRETE SLAB IS REQUIRED TO COMPLY WITH NFPA 55.

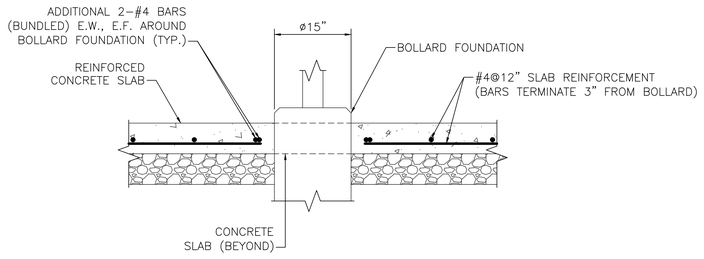
TYPICAL SECTION
REINFORCED CONCRETE SLAB CONSTRUCTION JOINT
SCALE: 1" = 1'-0"



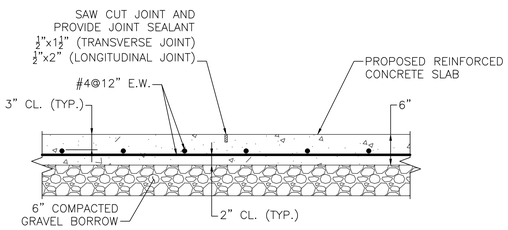

DETAIL
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"




SECTION A
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"




SECTION B
BOLLARD THROUGH PROPOSED CONCRETE SLAB
SCALE: 1" = 1'-0"




NOTE:
REFERENCE DRAWING NOS. C201 & C202 FOR CONTRACTION JOINT LOCATIONS.

TYPICAL SECTION
REINFORCED CONCRETE SLAB CONTRACTION JOINT
SCALE: 1" = 1'-0"

| Revisions: | Date: |
|---|---|

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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
STRUCTURAL DETAILS 1 OF 2

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

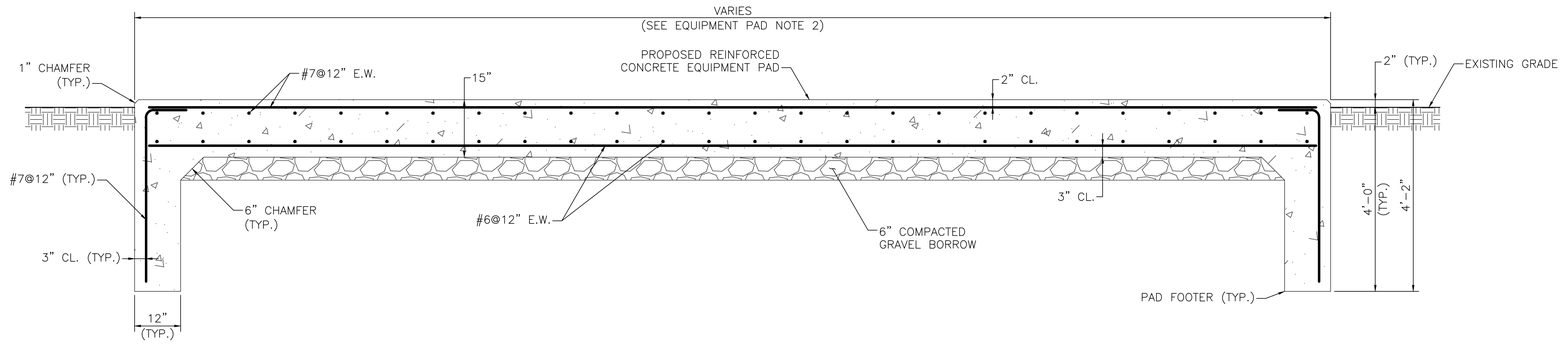
**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | NLR | BJD | V1-ST101 |

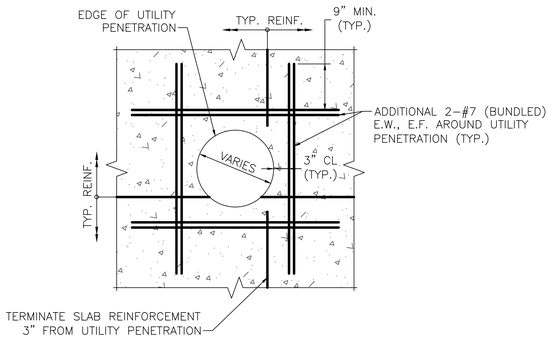
VA FORM 08-6231

EQUIPMENT PAD NOTES:

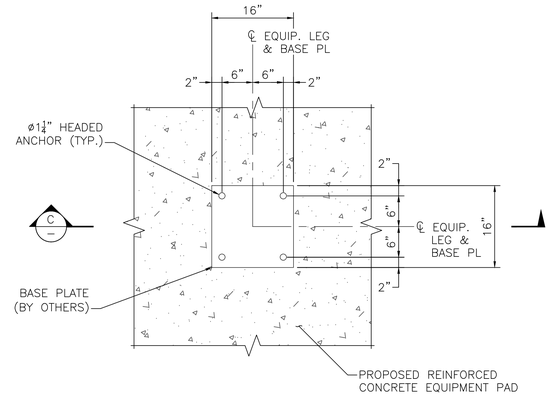
1. DESIGN OF EQUIPMENT PAD TO SUPPORT BULK OXYGEN SYSTEM HAS BEEN PERFORMED WITH PRELIMINARY EQUIPMENT SPECIFICATIONS, ATTACHMENT DETAILS, AND EQUIPMENT CONFIGURATION PROVIDED IN "GENERIC TM6000" PLANS BY PRAXAIR DATED APRIL 3, 2005. DESIGN TO BE CONFIRMED WITH EQUIPMENT SPECIFICATIONS TO BE PROVIDED BY LINDE.
2. REFERENCE DRAWING No. C202 FOR PROPOSED EQUIPMENT PAD LAYOUT.



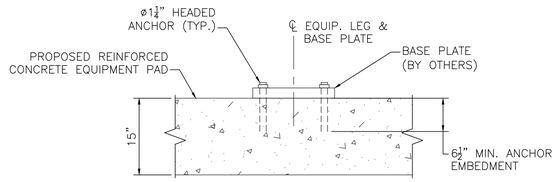

TYPICAL SECTION
BUILDING 8 BULK 02 EQUIPMENT PAD
SCALE: 3/4" = 1'-0"




DETAIL
UTILITY PENETRATION THROUGH EQUIPMENT PAD
SCALE: 1" = 1'-0"




DETAIL
EQUIPMENT ATTACHMENT
SCALE: 1" = 1'-0"




SECTION C
EQUIPMENT ATTACHMENT
SCALE: 1" = 1'-0"

| Revisions: | Date: |
|---|---|
| | |

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VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
STRUCTURAL DETAILS
2 OF 2

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn |
|---|---|---|
| 03/26/2026 | NLR | BJD |

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Drawing Number**
V1-ST102

VA FORM 08-6231

# PIPING SYMBOLS AND ABBREVIATIONS

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT.

## SHEET SYMBOLS

- EQ / # — SCHEDULED EQUIPMENT DESIGNATION. -TOP INDICATES EQUIPMENT ABBREVIATION -BOTTOM INDICATES EQUIPMENT NUMBER REFER TO EQUIPMENT SCHEDULES
- 2 — SPECIALTY ITEMS (I.E. GAUGE FILTER, ETC.) REFER TO EQUIPMENT LIST
- REFER / P-1 — PLAN CONTINUATION REFERENCE. -BOTTOM INDICATES ON WHICH SHEET CONTINUATION APPEARS
- 1 / P-1 — SECTION DESIGNATION. -TOP INDICATES SECTION NUMBER, -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- 2 / P-1 — DETAIL REFERENCE. -TOP INDICATES SECTION NUMBER, -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- A/15B-6 — DETAIL REFERENCE, INDICATING DETAIL NUMBER / SHEET ON WHICH DETAIL APPEARS.
- MATCHLINE DESIGNATION
- ELEVATION DESIGNATION. REFERENCE OFFICIAL PROJECT DATUM
- 1 — REVISION REFERENCE. REFER TO SHEET REVISION BLOCK
- 1 — SHEET KEYNOTE REFERENCE
- ROOM NAME / 101 — ROOM NAME & NUMBER DESIGNATION
- 1001 — CONSTRUCTION BULLETIN REVISION NUMBER
- POINT OF NEW CONNECTION TO EXISTING
- HALFTONE LIGHT LINE INDICATES EXISTING WORK
- HEAVY DASHED LINE WITH HATCH INDICATES EXISTING WORK TO BE DEMOLISHED
- HEAVY LINE INDICATES NEW WORK

## PIPING SYSTEM LABELS

WATER

| | |
|---|---|
| DCW | DOMESTIC COLD WATER |
| DHW | DOMESTIC HOT WATER |
| DHR | DOMESTIC HOT WATER RETURN |
| CSW | COLD SOFT WATER |
| HT | HEAT TRACE HOT WATER |
| NPW | NON-POTABLE WATER |
| DI | DEIONIZED WATER |
| RO | REVERSE OSMOSIS WATER |
| PW | PURE WATER |
| PCW | PROCESS COLD WATER |
| PHW | PROCESS HOT WATER |
| PHR | PROCESS HOT WATER RETURN |
| LCW | LAB COLD WATER |
| LHW | LAB HOT WATER |
| LHR | LAB HOT WATER RETURN |
| TF | TRAP FILLER LINE |
| TW | TEMPERED WATER |

GASES

| | |
|---|---|
| AR | ARGON |
| CA | COMPRESSED AIR |
| CO2 | CARBON DIOXIDE |
| H2 | HYDROGEN |
| LA | LABORATORY COMPRESSED AIR |
| LN2 | LIQUID NITROGEN |
| LVAC | LABORATORY VACUUM |
| MA | MEDICAL COMPRESSED AIR |
| MV | MEDICAL VACUUM |
| NG | NATURAL GAS |
| N2 | NITROGEN |
| N2O | NITROUS OXIDE |
| O2 | OXYGEN |
| WAGD | WASTE ANESTHETIC GAS DISPOSAL |
| WGE | WASTE GAS EVACUATION |

WASTE OR STORM

| | |
|---|---|
| SAN | WASTE OR SOIL |
| SD | SUBSOIL DRAIN |
| S | STORM |
| OD | OVERFLOW DRAIN |
| FM | FORCE MAIN |
| CWW | CLEARWATER WASTE |
| IW | INDIRECT WASTE |
| GW | GREASE WASTE |
| CRW | CORROSION RESISTANT WASTE |
| | UNDERFLOOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN |

VENT

| | |
|---|---|
| V | VENT |
| CWV | CLEARWATER VENT |
| CRV | CORROSION RESISTANT VENT |

## PIPING SYMBOLS

SINGLE | DOUBLE

- ELBOW DOWN
- ELBOW UP
- BOTTOM CONNECTION (45° OR 90°)
- TOP CONNECTION (45° OR 90°)
- D — 45° PIPE RISE(R) / DROP(D)
- TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE)
- EXISTING PIPING TO REMAIN
- LINE CONTINUATION BREAK
- FLOW DIRECTION
- N/A — CONNECTION POINT
- OR — ECCENTRIC REDUCER
- CONCENTRIC REDUCER

## PIPE FITTINGS, VALVES, & SPECIALTIES

- PLUG VALVE
- GATE VALVE
- DIAPHRAGM VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BALANCING VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID VALVE
- BACKWATER VALVE
- THERMOSTATIC MIXING VALVE
- TEMPERATURE BLENDING VALVE
- PRESSURE RELIEF VALVE
- VALVE IN VERTICAL
- RPBP OR — REDUCED PRESSURE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- ZVB — ZONE VALVE BOX LABEL IS SHOWN ON FRONT OF VALVE BOX TO INDICATE ORIENTATION
- AAP OR MAP — AREA OR MASTER ALARM PANEL LABEL IS SHOWN ON FRONT OF PANEL TO INDICATE ORIENTATION
- EXPANSION JOINT
- PIPE FLEXIBLE CONNECTION
- DIRECTION OF PITCH (DOWN)
- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- WATER SYSTEM PIPELINE STRAINER
- PIPE GUIDE
- PIPE SLEEVE
- ANCHOR
- FLANGE
- UNION
- PIPE CAP
- FILTER
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- M — WATER METER
- WATER HAMMER ARRESTOR
- PRESSURE OR VACUUM SWITCH
- HEAT TRACE TERMINATION POINT
- HEAT TRACE POWER CONNECTION POINT
- HOSE BIBB
- WALL HYDRANT
- $ — SLIDE-OXYGEN OR VACUUM BOTTLE
- OUTLET
- FLOW SENSING DEVICE

## CIVIL UTILITIES SYSTEMS

| | |
|---|---|
| W | WATER LINE |
| SAN | SANITARY SEWER |
| STM | STORM SEWER |
| FM | FORCE MAIN |
| F | FIRE MAIN |
| | SHUTOFF VALVE |
| PIV | POST INDICATOR VALVE |

- FIRE HYDRANT
- MANHOLE
- CATCH BASIN OR INLET
- CURB INLET

## DRAINS AND CLEANOUTS

- FLOOR DRAIN/FLOOR SINK
- ROOF DRAIN
- HUB DRAIN
- FIXTURE WASTE TRAP
- CLEANOUT
- FCO — FLOOR CLEANOUT

## FIXTURE INSTALLATION

| FIXTURE | BARRIER FREE DESIGN | NON-BARRIER FREE |
|---|---|---|
| WATER CLOSET | FLOOR TO RIM - 17" | FLOOR TO RIM - 15" |
| URINAL | FLOOR TO RIM - 17", MIN. ONE PER ROOM | FLOOR TO RIM - 24" |
| LAVATORY | FLOOR TO RIM - 34", MAX. FLOOR TO UNDER APRON - 29" | FLOOR TO RIM - 31" |
| DRINKING FOUNTAIN | FLOOR TO SPOUT - 36", MAX. FLOOR TO UNDER APRON - 27" | FLOOR TO RIM - 40" |
| SHOWER VALVE | FLOOR TO VALVE - 42" | FLOOR TO VALVE - 48" |
| SHOWER HEAD | FLOOR TO HEAD - 60" ON HOSE ADJ. - 48" | FLOOR TO HEAD - 78", VARIES |

## ABBREVIATIONS

A - AIR
AAP - AREA ALARM PANEL
ACC - ACCESS
ACFM - ACTUAL CUBIC FEET PER MINUTE
ADB - ACID DILUTION BASIN
ADJ - ADJUSTABLE
AFF - ABOVE FINISHED FLOOR
ALT - ALTERNATE
AMPS - AMPERES
AP - ACCESS PANEL
APPROX - APPROXIMATE
ARCH - ARCHITECTURAL
ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSY - ASSEMBLY

BHP - BRAKE HORSEPOWER
BLDG - BUILDING
BOP - BOTTOM OF PIPE ELEVATION
BOT - BOTTOM
BT - BATHTUB
BTU - BRITISH THERMAL UNIT
BTUH - BRITISH THERMAL UNITS PER HOUR
BTWN - BETWEEN

CA - COMPRESSED AIR
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFM - CUBIC FEET PER MINUTE
CLG - CEILING
CM - COFFEE MAKER
CMU - CONCRETE MASONRY UNIT
CO - CLEANOUT
CO2 - CARBON DIOXIDE
CONN - CONNECTION / CONNECT
CONTR - CONTRACTOR
CORR - CORRIDOR
CS - CLINICAL SINK / COLD SOFT WATER / CUP SINK
CTE - CONNECT TO EXISTING
CTR - CENTER
CU - COPPER
CRVTR - CORROSIVE VENT THROUGH ROOF
CWW - CLEARWATER WASTE

D - DEPTH / DRAIN LINE
DCW - DOMESTIC COLD WATER
DET - DETAIL
DFU - DRAINAGE FIXTURE UNIT
DHR - DOMESTIC HOT WATER RETURN
DHW - DOMESTIC HOT WATER
DIA - DIAMETER
DIM - DIMENSION
DISCH - DISCHARGE
DN - DOWN / DOWNSPOUT NOZZLE
DS - DOWNSPOUT
DW - DISHWASHER
DWG - DRAWING

EA - EACH
EEW - EMERGENCY EYEWASH
EFF - EFFICIENCY
EOSC - EMERGENCY OXYGEN SUPPLY CONNECTION
EJ - EXPANSION JOINT
ELEC - ELECTRICAL
ELEV - ELEVATION
EQUIP - EQUIPMENT
ET - EXPANSION TANK
ETR - EXISTING TO REMAIN
ES - EMERGENCY SHOWER
EWC - ELECTRIC WATER COOLER
EWT - ENTERING WATER TEMPERATURE
EXP - EXPANSION
EXT - EXTERIOR

°F - FAHRENHEIT
FCO - FLOOR CLEANOUT
FD - FLOOR DRAIN
FLA - FULL LOAD AMPERES
FLR - FLOOR
FM - FORCE MAIN
FP - FIREPROOF
FPM - FEET PER MINUTE
FS - FLOOR SINK
FSEC - FOOD SERVICE EQUIPMENT CONTRACTOR
FT - FEET
FTHD - FEET HEAD
FTG - FOOTING

G - GAS
GA - GAUGE
GAL - GALLON
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GPH - GALLONS PER HOUR
GPM - GALLONS PER MINUTE

HB - HOSE BIBB
HD - HUB DRAIN
HP - HORSEPOWER
HR - HOSE REEL
HT - HEAT TRACE HOT WATER
HTR - HEATER
HVAC - HEATING, VENTILATING, & AIR CONDITIONING
HZ - HERTZ

ID - INSIDE DIAMETER
IE - INVERT ELEVATION
IM - ICE MAKER
IN - INCHES
IN WC - INCHES WATER COLUMN
IW - INDIRECT WASTE

JS - JANITOR'S SINK

KW - KILOWATT

L - LENGTH
LA - LABORATORY COMPRESSED AIR
LAV - LAVATORY
LBS - POUNDS
LTG - LIGHTING
LWT - LEAVING WATER TEMPERATURE

MAP - MASTER ALARM PANEL
MAX - MAXIMUM
MB - MOP BASIN
MBH - ONE THOUSAND BTUH
MC - MECHANICAL CONTRACTOR
MEZZ - MEZZANINE
MFR - MANUFACTURER
MH - MANHOLE
MIN - MINIMUM / MINUTE
MISC - MISCELLANEOUS
MTD - MOUNTED
MTG - MOUNTING

NC - NORMALLY CLOSED
NIC - NOT IN CONTRACT
NO - NUMBER
NOM - NOMINAL
NPSH - NET POSITIVE SUCTION HEAD
NPT - NATIONAL PIPE THREAD
NTS - NOT TO SCALE

OC - ON CENTER
OD - OUTSIDE DIAMETER / OVERFLOW DRAIN
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED, OWNER INSTALLED

P - PUMP
PC - PLUMBING CONTRACTOR
PH - PHASE
PIV - POST INDICATOR VALVE
PLBG - PLUMBING
PRESS - PRESSURE
PRV - PRESSURE REDUCING VALVE
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PSIG - POUNDS PER SQUARE INCH GAUGE
PW - PURE WATER

R - RADIUS
RAD - REFRIGERATED AIR DRYER
RD - ROOF DRAIN
REC - RECESSED
RECPT - RECEPTACLE
REF - REFERENCE
REQD - REQUIRED
RI - ROUGH-IN
RPM - REVOLUTIONS PER MINUTE
RV - RELIEF VALVE

S - STORM
SAN - SANITARY
SCH - SCHEDULE
SCFM - STANDARD CUBIC FEET PER MINUTE
SD - SUBSOIL DRAIN
SF - SQUARE FEET
SH - SHOWER
SHT - SHEET
SPEC - SPECIFICATION
SQ - SQUARE
SR - SERVICE RECEPTOR
S/S - STAINLESS STEEL
STD - STANDARD
STRU - STRUCTURAL / STRUCTURE
SUCT - SUCTION

TD - TRENCH DRAIN
TDH - TOTAL DYNAMIC HEAD
TEMP - TEMPERATURE
TMV - THERMOSTATIC MIXING VALVE
TOB - TOP OF BEAM
TOD - TOP OF DECK
TOJ - TOP OF JOIST
TOS - TOP OF SLAB / TOP OF STEEL
TF - TRAP FILLER
TP - TRAP PRIMER
TYP - TYPICAL

UR - URINAL

V - VENT / VOLTS
VAC - VACUUM
VEL - VELOCITY
VFD - VARIABLE FREQUENCY DRIVE
VOL - VOLUME
VTR - VENT THRU ROOF

W - WASTE / WATER
W/ - WITH
W/O - WITHOUT
WAGD - WASTE ANESTHETIC GAS DISPOSAL
WB - WALL BOX
WC - WATER CLOSET
WCO - WALL CLEANOUT
WGE - WASTE GAS EXHAUST
WH - WALL HYDRANT
WHA - WATER HAMMER ARRESTOR
WHTR - WATER HEATER
WSFU - WATER SUPPLY FIXTURE UNIT

X - EXISTING

YCO - YARD CLEANOUT

ZVB - ZONE VALVE BOX




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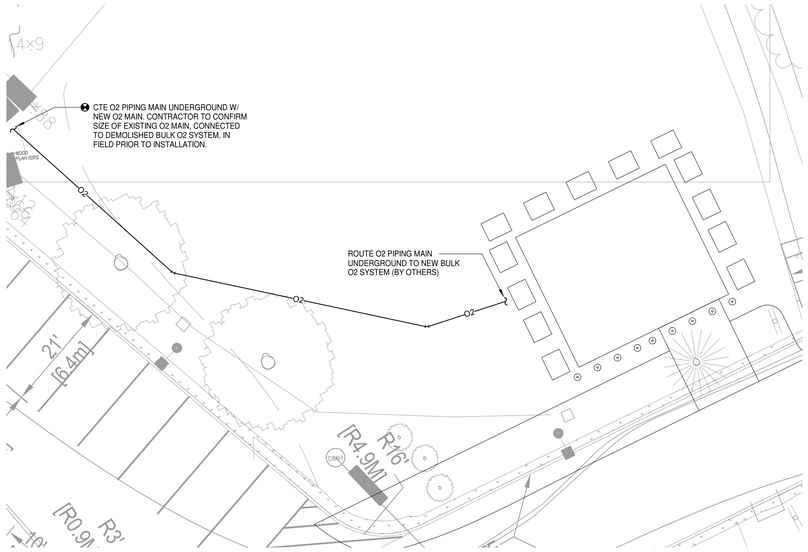



## 3 BUILDING 8 SITE PLAN

SCALE: 1" = 1'-0"

## 1 BUILDING 3 SITE PLAN

SCALE: 1" = 1'-0"

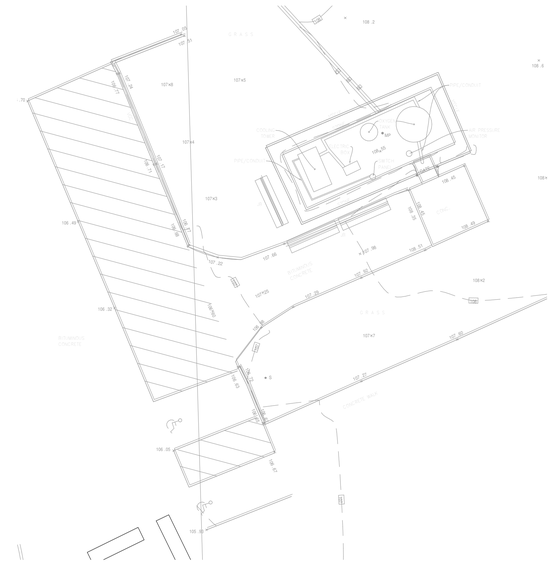
**DEMOLITION NOTES**

1. PROJECT CONDITIONS
   A. THE CONTRACTOR SHALL COMPLETELY FAMILIARIZE HIMSELF WITH ALL EXISTING BUILDING AND SITE CONDITIONS AND LIMITATIONS WHICH MAY HAVE A BEARING ON THE OPERATIONS HEREIN SPECIFIED, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE DRAWINGS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR UNFORESEEN CONDITIONS THAT CAN BE DETERMINED FROM A CAREFUL EXAMINATION OF THE SITE AND AREAS TO BE RENOVATED.
   B. ITEMS OF VALUE WHICH ARE NOT INDICATED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
   C. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
   D. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING USED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED. COORDINATE ALL WORK WITH OWNER.
   E. ALL WORK MUST BE COORDINATED W/ OWNER PRIOR TO ANY COMMENCEMENT OF WORK.
2. SCOPE OF WORK
   A. ELECTRICAL/SECURITY
      1. COORDINATE WITH OWNER FOR ELECTRICAL SHUTDOWN AND REMOVE ALL LIGHTING AND SECURITY DEVICES AFFIXED TO THE CHAIN-LINK FENCE TO ENABLE ITS REMOVAL.
      2. SECURELY STORE ALL LIGHTING FIXTURES AND SECURITY DEVICES IN A CLEAN, DRY ENVIRONMENT FOR FUTURE REINSTALLATION.
3. REGULATORS REQUIREMENTS
   A. STRICTLY COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. HANDLING OF MATERIALS
   A. REMOVE ALL MATERIAL DEBRIS FROM THE SITE AS IT ACCUMULATES. DO NOT STORE, SELL, BURN, OR OTHERWISE DISPOSE OF DEBRIS ON SITE. REMOVE ALL MATERIALS IN SUCH MANNER AS TO PREVENT SPILLAGE. KEEP ALL PAVEMENTS AND AREAS ADJACENT TO AND LEADING FROM THE SITE, CLEAN AND FREE OF MUD, DIRT, AND DEBRIS AT ALL TIMES.
5. TRANSFER OF RESPONSIBILITY AND DISPOSITION OF MATERIALS
   A. UPON RECEIPT OF NOTICE TO PROCEED WITH THE WORK, THE TITLE TO ALL MATERIALS FOR DEMOLITION SHALL BE VESTED IN THE CONTRACTOR WHEREUPON THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS, OR DAMAGE TO SAID PROPERTY. ALL SUCH ITEMS SHALL BE REMOVED FROM THE OWNER'S PROPERTY.
6. CLEAN-UP AND REPAIR
   A. UPON COMPLETION OF DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT AND DEMOLISHED MATERIALS FROM SITE. REMOVE PROTECTION AND LEAVE INTERIOR AREAS BROOM CLEAN.
   B. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO EXISTING CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.

**NEW WORK NOTES**

GENERAL:
1. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
2. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL.
3. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL HVAC, PROCESS PIPING, SPRINKLER PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
7. ALL PIPING. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN A APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROVIDED WITH FIRE RATED SEALS AS REQUIRED.
8. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
9. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.
   3. STRICTLY COMPLY WITH NFPA, NEC AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.



## 2 BUILDING 4 SITE PLAN

SCALE: 1" = 1'-0"

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|---|---|
| 100% Construction Documents | 03/26/2026 |
| Revisions: | Date: |

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**STAMP**

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
PLUMBING PLAN BUILDING 3,4 AND 8

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | | | V1-P201 |

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## DEMOLITION NOTES

1. PROJECT CONDITIONS
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   B. ITEMS OF VALUE WHICH ARE NOT INDICATED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
   C. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
   D. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING USED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED. COORDINATE ALL WORK WITH OWNER.
   E. ALL WORK MUST BE COORDINATED W/ OWNER PRIOR TO ANY COMMENCEMENT OF WORK.
2. SCOPE OF WORK
   A. ELECTRICAL/SECURITY
      1. COORDINATE WITH OWNER FOR ELECTRICAL SHUTDOWN AND REMOVE ALL LIGHTING AND SECURITY DEVICES AFFIXED TO THE CHAIN-LINK FENCE TO ENABLE ITS REMOVAL.
      2. SECURELY STORE ALL LIGHTING FIXTURES AND SECURITY DEVICES IN A CLEAN, DRY ENVIRONMENT FOR FUTURE REINSTALLATION.
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XR- REMOVE TO BE RELOCATED

## NEW WORK NOTES

GENERAL:
1. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
2. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
3. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL HVAC, PROCESS PIPING, SPRINKLER PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
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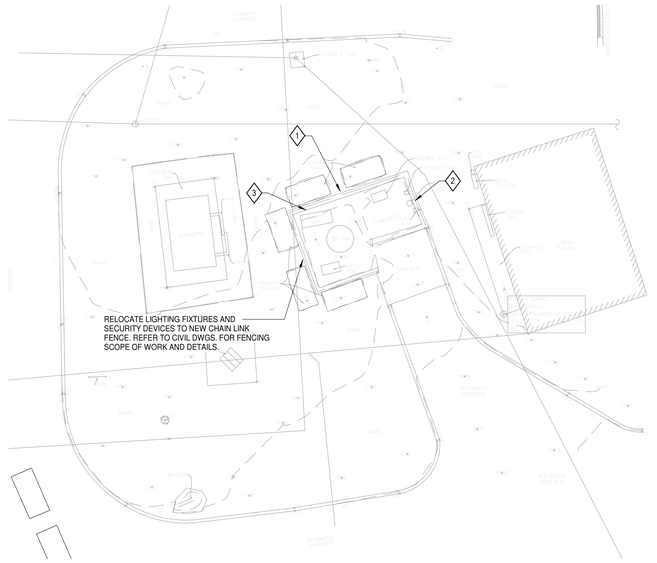
7. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.
   3. COORDINATE WITH OWNER TO RE-COMMISSION THE SYSTEM.

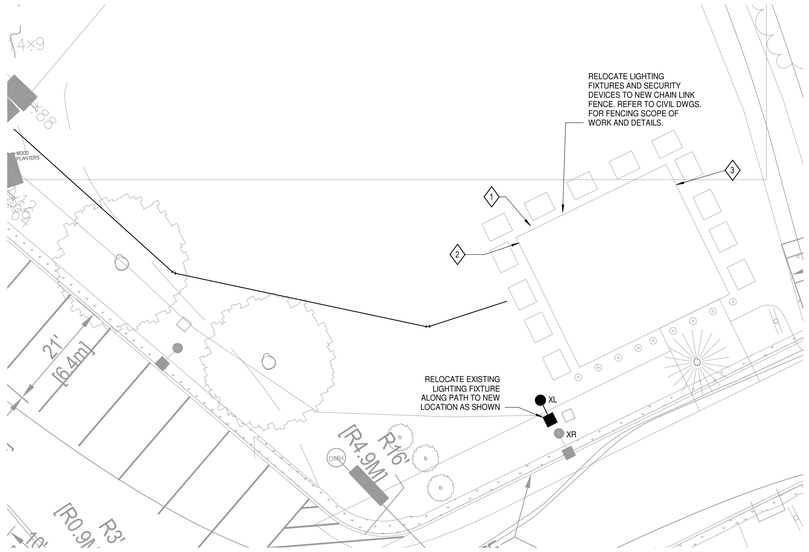
XL - RELOCATED

## KEY NOTES

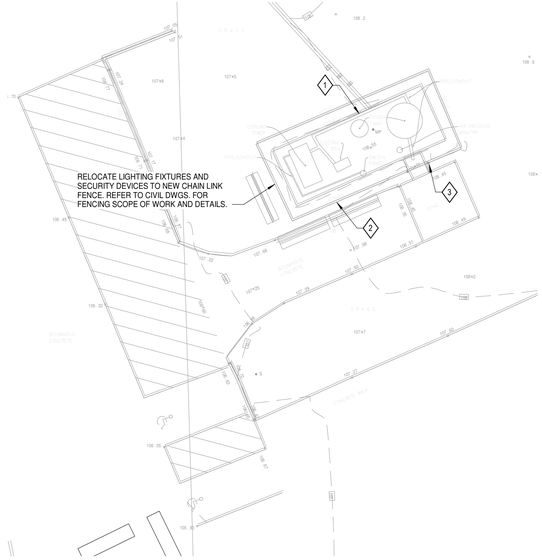
1. ANY EXISTING GROUNDING ELECTRODE CONNECTIONS ON FENCE SHALL BE REMOVED BY CONTRACTOR. GROUNDING ELECTRODE SHALL BE REINSTALLED ON NEW FENCE USING 4 AWG COPPER WIRE FOR NEC COMPLIANCE.
2. ANY EXISTING LIGHTING FIXTURES PRESENT ON FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. LIGHTING FIXTURES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.
3. ANY SECURITY DEVICES AFFIXED TO THE EXISTING FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. SECURITY DEVICES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.




### 1 BUILDING 3 SITE PLAN ELECTRICAL
SCALE: 1" = 1'-0"




### 3 BUILDING 8 SITE PLAN ELECTRICAL
SCALE: 1" = 1'-0"




### 2 BUILDING 4 SITE PLAN ELECTRICAL
SCALE: 1" = 1'-0"

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| 100% Construction Documents | 03/26/2026 |
| Revisions: | Date: |

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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
ELECTRICAL PLAN BUILDING 3,4 AND 8

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
Brockton VA Medical Center
VA Boston Healthcare System

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Medical Center**
VAMC Brockton

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | | | V1-E201 |

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# DEPARTMENT OF VETERANS AFFAIRS
# BOSTON HEALTHCARE SYSTEM

## Bulk Oxygen Corrections

150 S Huntington Ave, Boston, MA 02130

# CONSTRUCTION DOCUMENTS
# VOLUME 2
# VAMC JAMAICA PLAIN

March 26, 2026

VA Project # 523-25-003
VA Contract # 36C24125R0010
VA PO # 523C7043

WPA Project # WPA1502


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STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: COVER - VAMC JAMAICA PLAIN

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections

Location: Jamaica Plain VA Medical Center
VA Boston Healthcare System

Project Number: VA Project # 523-25-003
WPA Project # WPA1502

Medical Center: VAMC Jamaica Plain

Issue Date: 03/26/2026

Checked:

Drawn:

Drawing Number: V2-GI000

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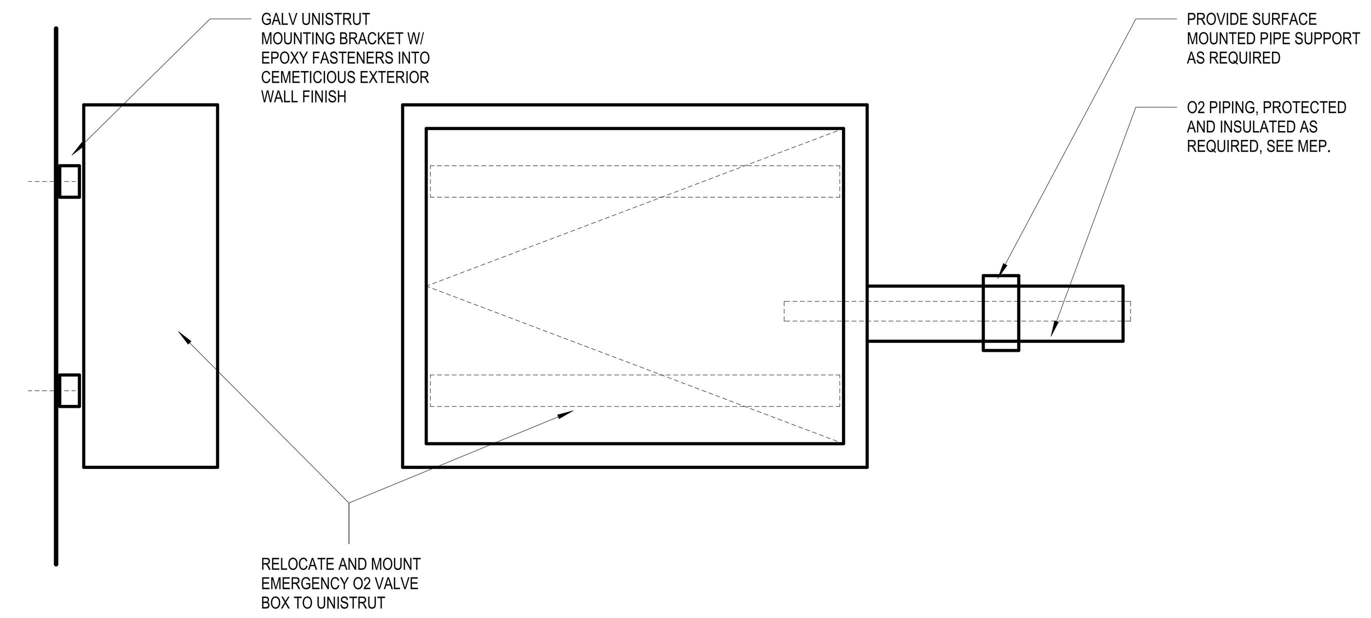
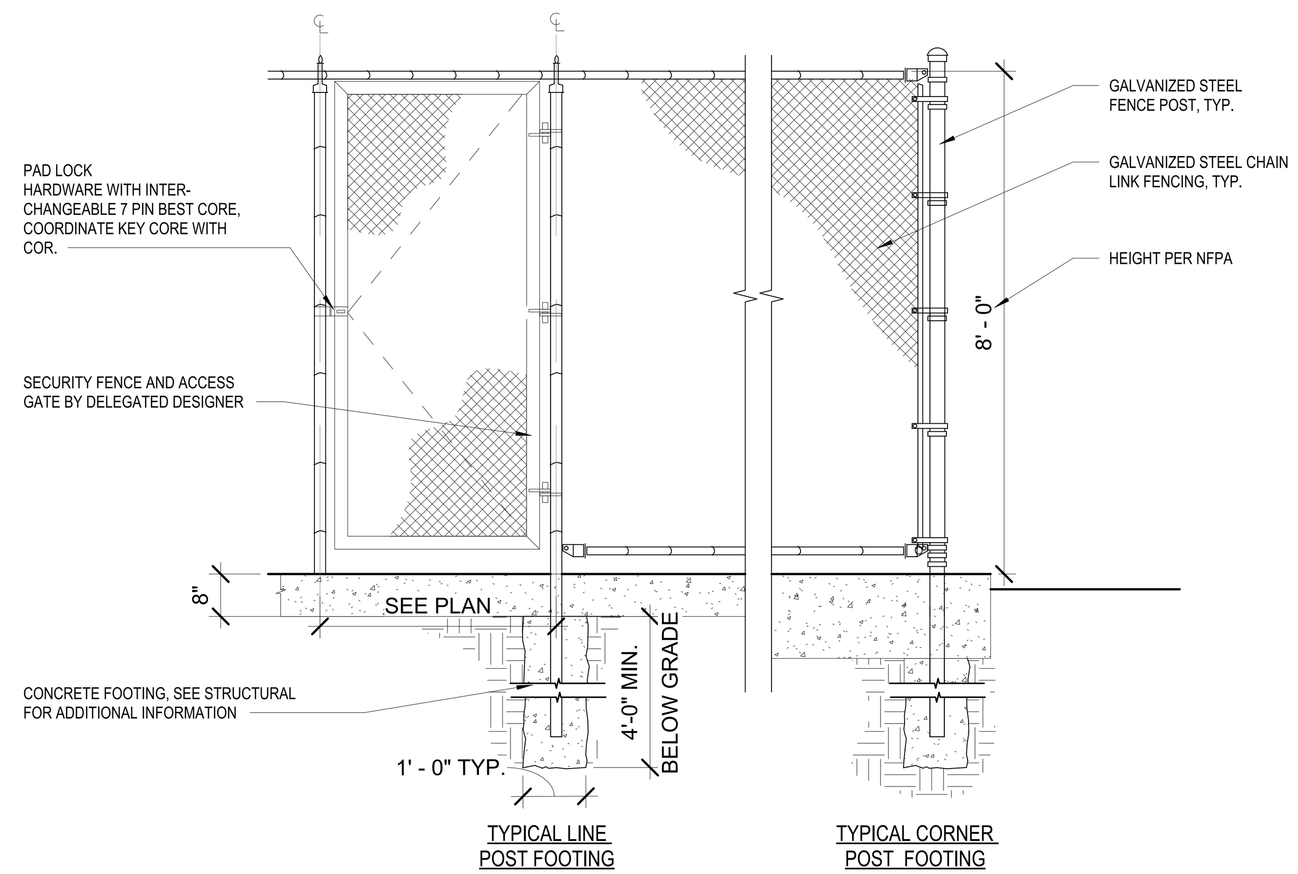
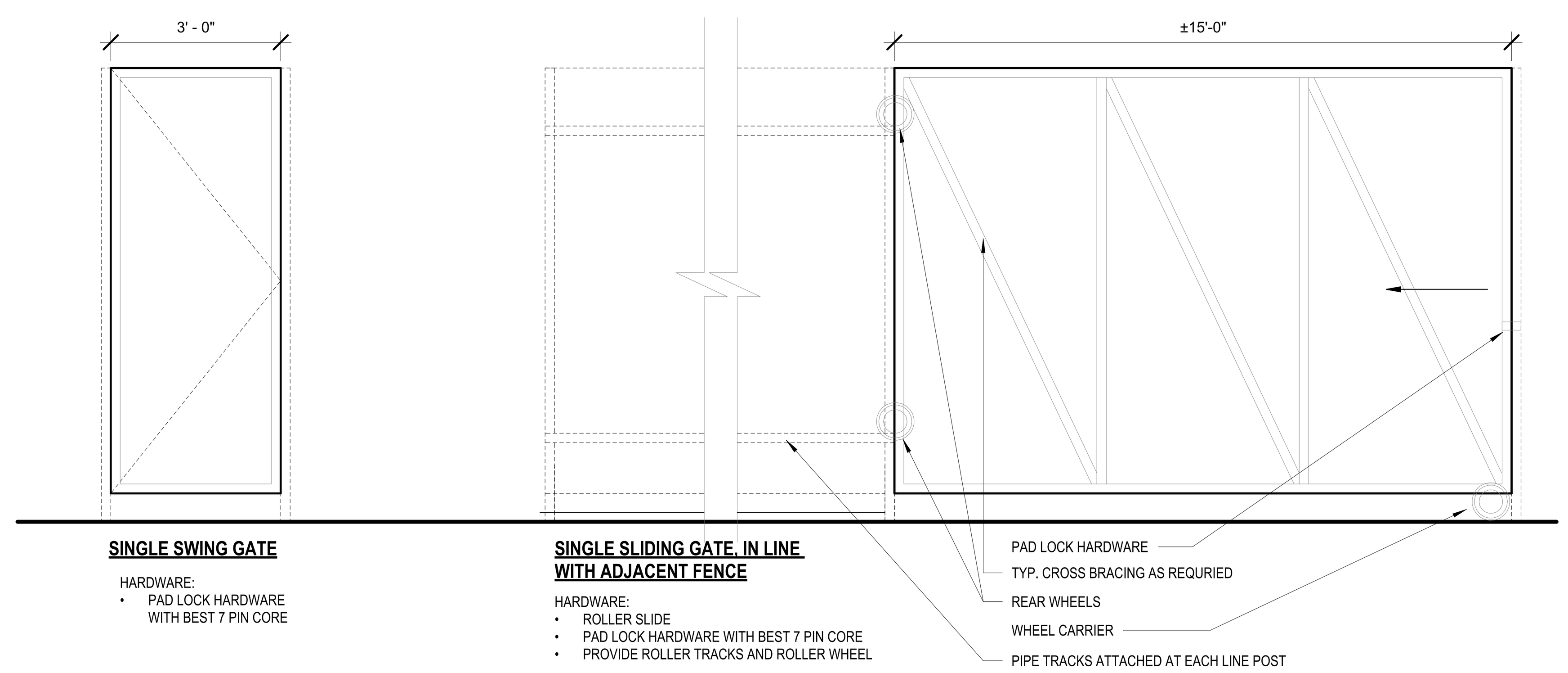



04 DETAIL AT RELOCATED EMERGENCY O2 CONNECTION-JP Copy 2
SCALE: 1 1/2" = 1'-0"




02 CHAIN LINK FENCE DETAIL Copy 2
SCALE: 1/2" = 1'-0"

| Gate Schedule - JP | | | | |
|---|---|---|---|---|
| Mark | Width | Material | Hardware | Gate Type |
| JP1 | 15' - 0" | GALV. STEEL CHAIN LINK | HW-2 | Single Sliding |
| JP2 | 3' - 0" | GALV. STEEL CHAIN LINK | HW-1 | Single Swing |

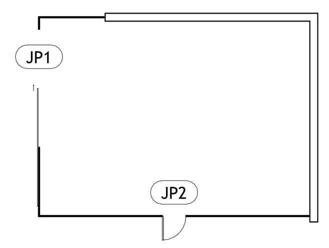



## HARDWARE TYPES:

HW-1
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE

HW-2
- ROLLER SLIDE
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE
- PROVIDE ROLLER TRACKS AND ROLLER WHEEL

## GATE NUMBERS:




01 GATE SCHEDULE & LEGENDS-JP
SCALE: 1/2" = 1'-0"

## ABBREVIATIONS

| | |
|---|---|
| & | AND |
| L | ANGLE |
| @ | AT |
| CL | CENTERLINE |
| Ø | DIAMETER |
| # | POUND |
| AD | AREA DRAIN |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| ALUM | ALUMINUM |
| ALT | ALTERNATE |
| AV | AUDIOVISUAL |
| AVB | AIR VAPOR BARRIER |
| BO | BOTTOM OF |
| BOT | BOTTOM |
| BOS | BOTTOM OF STEEL |
| B/T | BENCH TOP |
| B/W | BETWEEN |
| CC | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| CG | CORNER GUARD |
| CH | CEILING HEIGHT |
| CJ | CONTROL JOINT |
| CLG | CEILING |
| CMU | CONCRETE MASONRY UNIT |
| CO | CASED OPENING |
| COL | COLUMN |
| COMMS | COMMUNICATIONS |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| COORD | COORDINATE |
| CPT | CARPET |
| CR | CARD READER |
| CT | CERAMIC TILE |
| CUH | CABINET UNIT HEATER |
| CW | CURTAIN WALL |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| E | EAST |
| EIFS | EXTERIOR INSULATION & FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| EMER SHR | EMERGENCY SHOWER |
| EMERG | EMERGENCY |
| EP | ELECTRICAL PANEL |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EWS | EYE WASH STATION |
| EXIST | EXISTING |
| EXT | EXTERIOR |
| F/F | FACE TO FACE |
| FACP | FIRE ALARM CONTROL PANEL |
| FCO | FLOOR CLEANOUT |
| FCU | FAN COIL UNIT |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FDV | FIRE DEPARTMENT VALVE |
| FEC | FIRE EXTINGUISHER CABINET |
| FE | FIRE EXTINGUISHER |
| FF | FINISH FACE |
| FH | FIRE HYDRANT |
| FHC | FIRE HOSE CABINET |
| FHR | FIRE HOSE RACK |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FTR | FINNED TUBE RADIATION |
| G | GAS |
| GALV | GALVANIZED |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GFRG | GLASS FIBER REINFORCED GYPSUM |
| GWB | GYPSUM WALL BOARD |
| HB | HOSE BIBB |
| HORIZ | HORIZONTAL |
| HPT | HIGH POINT |
| HR | HOUR |
| HVAC | HEATING, VENTILATION, AIR CONDITIONING |
| HW | HOT WATER |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| IG | INSULATED GLASS |
| INT | INTERIOR |
| L | LEFT |
| LGMF | LIGHT GAUGE METAL FRAMING |
| LPT | LOW POINT |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MH | MANHOLE |
| MH | MENTAL HEALTH |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| N | NORTH |
| NIC | NOT IN CONTRACT |
| NRP | NON-REMOVABLE PIN |
| NTS | NOT TO SCALE |
| OA | OVERALL |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
| OF/CI | OWNER FURNISHED/CONTRACTOR INSTALLED |
| OFD | OVERFLOW DRAIN |
| OPH | OPPOSITE HAND |
| O | OXYGEN |
| R | RISER |
| RCP | REFLECTED CEILING PLAN |
| RD | ROOF DRAIN |
| REINF | REINFORCED |
| REQ/REQ'D | REQUIRED |
| RM | ROOM |
| RO | ROUGH OPENING |
| RWL | RAIN WATER LEADER |
| S | SOUTH |
| SIM | SIMILAR |
| SOG | SLAB ON GRADE |
| SST | STAINLESS STEEL |
| STRUC | STRUCTURAL |
| TD | TRENCH DRAIN |
| TO | TOP OF |
| TOC | TOP OF CONCRETE SLAB |
| TOS | TOP OF STEEL |
| TOW | TOP OF WALL |
| TPO | THERMOPLASTIC POLYOLEFIN |
| TYP | TYPICAL |
| UL | UNDERWRITERS LABORATORIES |
| UON | UNLESS OTHERWISE NOTED |
| VC | VA FURNISHED, CONTRACTOR INSTALLED |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| VV | VA FURNISHED, VA INSTALLED |
| W | WEST |
| WH | WALL HYDRANT |

## GENERAL NOTES

1. CONTRACTOR SHALL NOT SHUT-OFF AND/OR INTERRUPT O2 SUPPLY TO HOSPITAL WITHOUT EXPLICIT WRITTEN PERMISSION FROM THE AUTHORIZED VA COR. CONTRACTOR SHALL BE REQUIRED TO COORDINATE TEMPORARY O2 SUPPLY FOR ALL SHUTDOWN(S) USING THE VA FACILITY SUPPLIERS. ALL REQUEST(S) FOR SHUT DOWN SHALL BE MADE MIN. OF 2 WEEKS IN ADVANCE.
2. CONTRACTOR SHALL PREPARE AND REVIEW WORK PLAN WITH THE VA COR AND PROVIDE ADDITIONAL DOCUMENTATION AS REQUIRED BY VA PRIOR TO START OF WORK.
3. CONTRACTOR IS REQUIRED TO PROVIDE GROUND PENETRATING RADAR SCANS OF ALL AREAS WHERE EXCAVATION IS REQUIRED. CONTRACTOR SHALL NOTIFY THE COR OF ANY POTENTIAL CONFLICTS.
4. CONTRACTOR TO NOTIFY COR OF BELOW GRADE CONFLICTS WITH NEW LAYOUT AND ADJUST LOCATION OF PIERS AND FOUNDATIONS TO ACCOMMODATE.
5. DO NOT SCALE DRAWINGS.
6. DIMENSIONS ARE INTENDED TO COMMUNICATE DESIGN INTENT ONLY AND SHALL NOT BE USED FOR THE PURPOSES OF FABRICATION OR INSTALLATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS INDICATED ON DRAWINGS PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR TO NOTE TERMS SUCH AS "FLUSH," "ALIGN," "MATCH," "CENTER" AND SIMILAR AS THESE TAKE PRECEDENT OVER DIMENSIONAL NOTATION AND SCHEDULED SYSTEMS.
7. CONTRACTOR SHALL INSTALL MATERIALS IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. SUBMITTAL SHOP DRAWINGS:
   A. ORIGINAL DRAWINGS SHALL BE PREPARED BY CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR, WHICH ILLUSTRATE SOME PORTION OF THE WORK, SHOWING FABRICATION, LAYOUT, SETTING, OR ERECTION OF DETAILS.
   B. SHOP DRAWINGS SHALL BE PREPARED BY A QUALIFIED DETAILER.
   C. DETAILS SHALL BE IDENTIFIED BY REFERENCE TO SHEET AND DETAIL NUMBERS INDICATED ON CONTRACT DRAWINGS.
   D. DO NOT REPRODUCE CONTRACT DOCUMENTS.
   E. THE CONTRACTOR SHALL COORDINATE ALL SUCH DRAWINGS, AND REVIEW THEM FOR ACCURACY, COMPLETENESS, AND COMPLIANCE WITH CONTRACT REQUIREMENTS AND SHALL INDICATE ITS APPROVAL THEREON AS EVIDENCE OF SUCH COORDINATION AND REVIEW.
9. CONTRACT LIMIT LINES SHALL BE WHERE INDICATED ON THE DRAWINGS. HOWEVER, IN ORDER TO COMPLETE OR FACILITATE INDICATED WORK, CONTRACTOR MAY BE REQUIRED TO CARRY OUT WORK ADJACENT TO, BUT OUTSIDE INDICATED LIMITS. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS TO BUILDINGS TO COORDINATE WORK.
10. PROVIDE SECURE CONSTRUCTION FENCING AROUND ALL AREA OF CONSTRUCTION, EXCAVATION, AND STORAGE AREAS.
11. THE DEPARTMENT OF VETERANS AFFAIRS IS THE AUTHORITY HAVING JURISDICTION. THE MASSACHUSETTS OFFICE OF PUBLIC SAFETY AND INSPECTION NOR THE LOCAL INSPECTIONAL SERVICES HAS JURISDICTION OVER THIS PROJECT. THE PROJECT HAS BEEN DESIGNED TO MEET NFPA AND CERTAIN CRITERIA OF MA BUILDING CODES AS NOTED.

## SYMBOLS

DOOR / WINDOW SYMBOL — XXXX
DETAIL — XX — DETAIL, DETAIL NAME, SCALE 1/8" = 1'-0"

DETAIL CALLOUT — DETAIL IDENTIFICATION, SHEET NUMBER
SECTION — SECTION IDENTIFICATION, SHEET NUMBER
DETAIL — DETAIL IDENTIFICATION, SHEET NUMBER

## LINETYPES

OVERHEAD (OVERCOUNTER AND SOFFITS)
BELOW AND BEYOND (UNDERCOUNTER AND FOOTINGS)
REFERENCE (COLUMN LINES AND MATCHLINES)
BREAK LINE
DOCUMENT REVISION — 01
LIMIT OF WORK

## SHEET LIST

| Sheet Number | Sheet Name |
|---|---|
| GENERAL INFORMATION | |
| V2-GI000 | COVER - VAMC JAMAICA PLAIN |
| V2-GI001 | GENERAL NOTES, PROJECT INFORMATION, SHEET LIST |
| CIVIL | |
| V2-C101 | SITE DEMOLITION PLAN |
| V2-C202 | CIVIL LAYOUT PLAN |
| STRUCTURAL | |
| V2-ST101 | STRUCTURAL DETAILS |
| PLUMBING | |
| V2-P001 | PLUMBING LEGEND |
| V2-P201 | PLUMBING PLAN |
| ELECTRICAL | |
| V2-E201 | ELECTRICAL PLAN |
| 8 | |

Revisions: | Date:

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VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: GENERAL NOTES, PROJECT INFORMATION, SHEET LIST
Approved:

Phase: 65% DESIGN DEVELOPMENT

Project Title: Bulk Oxygen Corrections
Project Number: VA Project # 523-25-003, WPA Project # WPA1502
Location: Jamaica Plain VA Medical Center, VA Boston Healthcare System
Medical Center: VAMC Jamaica Plain
Issue Date: 04/04/2025 | Checked | Drawn
Drawing Number: V2-GI001

3/26/2026 9:07:39 AM
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VA FORM 08 - 6231

## GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS", PREPARED FOR WILLIAM PEVEAR ARCHITECTS, PREPARED BY NITSCH ENGINERING, DATED MARCH 3, 2025.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25025C0078H, EFFECTIVE DATE 07/03/2024. THE SITE IS LOCATED IN ZONE X.
3. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE. THE CONTRACTOR TO PROVIDE GPR SCAN TO CONFIRM/LOCATE AND IDENTIFY BELOW GRADE INFRASTRUCTURE.
4. THE CONTRACTOR TO COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
8. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
10. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
12. ELEVATIONS REFER TO BOSTON CITY BASE.

## EROSION AND SEDIMENT CONTROL NOTES:

1. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
3. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
4. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
5. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
7. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSIVE CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
8. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
9. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
10. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUDED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
12. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
13. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
14. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE VA. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.
15. SEE SPECIFICATIONS ABOUT CONTAMINATED SOIL REMOVAL FROM ALL JAMAICA PLAIN MEDICAL CENTER EXCAVATIONS

## DEMOLITION NOTES:

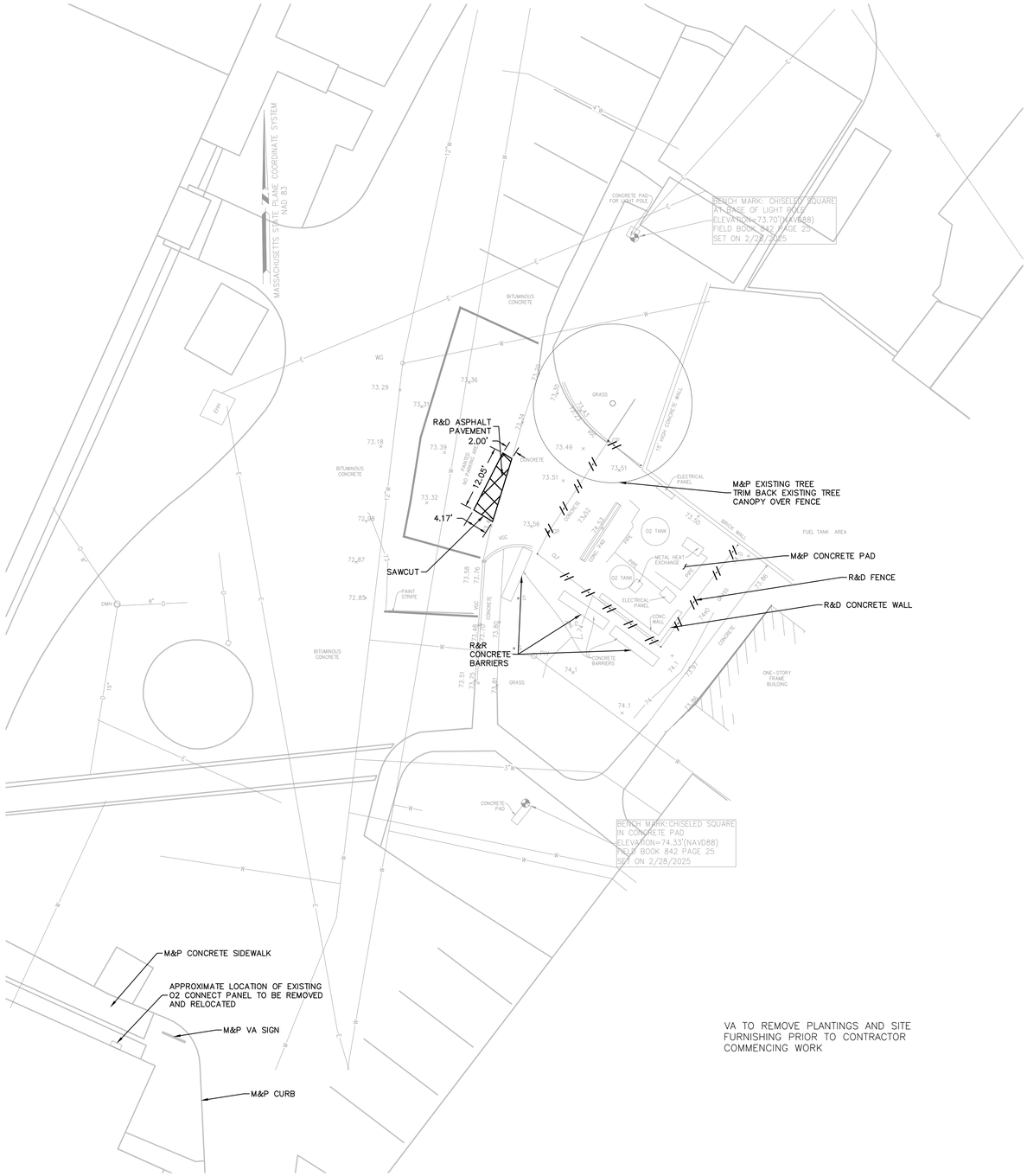
1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

## PROPOSED LEGEND

| | |
|---|---|
| | LIMIT OF WORK |
| // // | EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS |
| -o-o- | EROSION CONTROL BARRIER |
| -x-x- | CONSTRUCTION FENCE |
| W | DOMESTIC WATER PIPE |
| FP | FIRE PROTECTION PIPE |
| S | SANITARY SEWER PIPE |
| SFM | SEWER FORCE MAIN PIPE |
| DFM | DRAIN FORCE MAIN PIPE |
| D | STORM DRAIN PIPE |
| G | GAS PIPE |
| E | ELECTRIC DUCTBANK |
| T/C | TELECOM DUCTBANK |
| CW | CHILLED WATER PIPE |
| STM | STEAM PIPE |
| CR | CONDENSATE RETURN PIPE |
| HW | HOT WATER PIPE/RETURN |
| HHW | HEATING HOT WATER |
| RW | REUSE WATER PIPE |
| GW | GREY WATER PIPE |
| X | FUTURE UTILITY, SHOWN FOR INFORMATION ONLY |
| | INLET PROTECTION |
| | ELEVATION CONTOURS |
| | MATCH LINE |
| | CENTERLINE |
| CO | CLEANOUT |
| | AREA DRAIN |
| | ACCESS BASIN |
| | DRAIN MANHOLE |
| Q | WATER QUALITY STRUCTURE |
| | CATCH BASIN |
| | DOUBLE CATCH BASIN |
| | WATER QUALITY INLET |
| | SEWER MANHOLE |
| STMH | STEAM MANHOLE |
| TMH | TELECOM MANHOLE |
| EMH | ELECTRIC MANHOLE |
| CWV | CHILLED WATER VALVE |
| WV | WATER VALVE |
| HYD | FIRE HYDRANT |

## ABBREVIATIONS

| | |
|---|---|
| AB | ACCESS BASIN |
| AD | AREA DRAIN |
| BC | BOTTOM OF CURB ELEVATION |
| BW | BOTTOM OF WALL ELEVATION |
| CB | CATCH BASIN |
| CCB | CAPE COD BERM |
| CI | CAST IRON |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CO | CLEANOUT |
| COP | CENTER OF PIPE |
| CLDI | CEMENT LINED DUCTILE IRON PIPE |
| CP | CARRIER PIPE |
| CPP | CORRUGATED POLYETHYLENE PIPE |
| DCB | DOUBLE CATCH BASIN |
| DMH | DRAIN MANHOLE |
| EHH | ELECTRIC HANDHOLE |
| EJ | EXPANSION JOINT |
| EMH | ELECTRIC MANHOLE |
| FD | FOUNDATION DRAIN |
| FFE | FINISHED FLOOR ELEVATION |
| HP | HIGH POINT |
| HYD | FIRE HYDRANT |
| INV | INVERT ELEVATION |
| LF | LINEAR FEET |
| LOW | LIMIT OF WORK |
| LP | LOW POINT |
| LW | LAB WASTE |
| M&P | MAINTAIN AND PROTECT |
| NIC | NOT IN CONTRACT |
| OC | ON CENTER |
| OCS | OUTLET CONTROL STRUCTURE |
| PD | PERIMETER DRAIN |
| PERF | PERFORATED |
| PVC | POLYVINYL CHLORIDE PIPE |
| R&D | REMOVE AND DISPOSE |
| R&R | REMOVE AND REUSE |
| R&S | REMOVE AND STOCKPILE |
| RD | ROOF DRAIN |
| RIM | RIM ELEVATION |
| SMH | SEWER MANHOLE |
| SS | SEWER SERVICE |
| TC | TOP OF CURB ELEVATION |
| TW | TOP OF WALL ELEVATION |
| THH | TELECOM HANDHOLE |
| TMH | TELECOM MANHOLE |
| TOP | TOP OF PIPE |
| TOD | TOP OF DUCT BANK |
| TYP | TYPICAL |
| UD | UNDERDRAIN |
| USD | UNDERSLAB DRAIN |
| VGC | VERTICAL GRANITE CURB |
| WQI | WATER QUALITY INLET |
| WQS | WATER QUALITY STRUCTURE |
| WV | WATER VALVE |




SITE DEMOLITION PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
SITE DEMOLITION PLAN

**Phase**
CONSTRUCTION DOCUMENTS

**Approved:**

**Project Title**
Bulk Oxygen Corrections

**Location**
Jamaica Plain VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Jamaica Plain

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | JMS | JRD | V2-C101 |

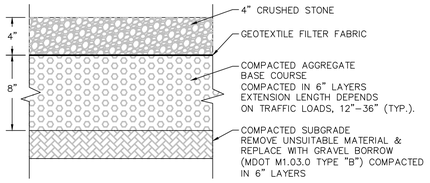
VA FORM 08-6231

## EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%.
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
6. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
8. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING.
11. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
12. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
16. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO OWNER.

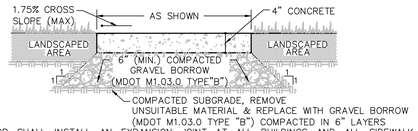
## ADDITIONAL NOTES:

1. RESTRIPE IN KIND FOR DISTURBED PAVEMENT AREAS




### CRUSHED STONE PERIMETER SKIRT DETAIL

NOT TO SCALE

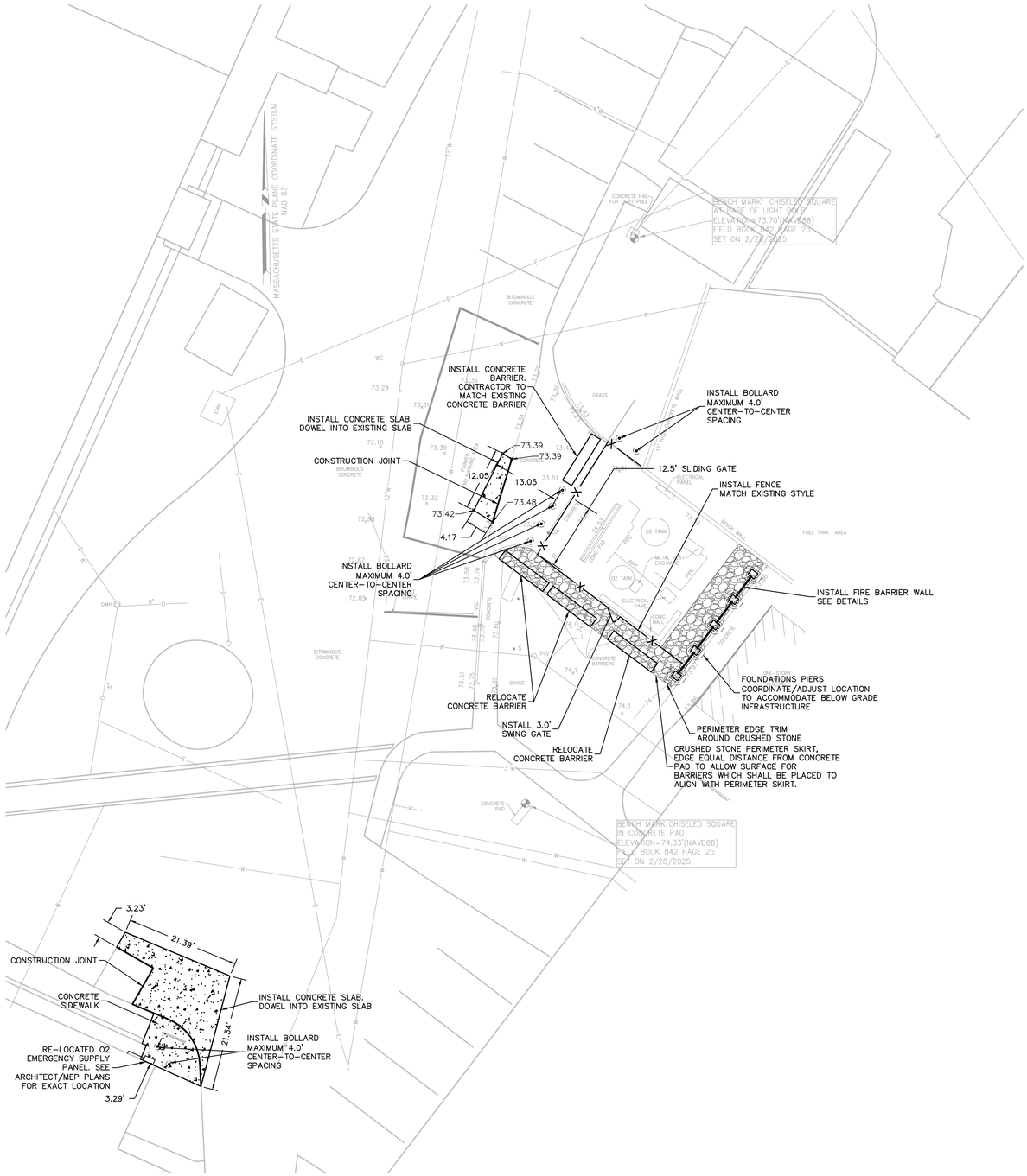



NOTES:
1. CONTRACTOR SHALL INSTALL AN EXPANSION JOINT AT ALL BUILDINGS AND ALL SIDEWALK INTERSECTIONS OR AT START OF CURVED SECTIONS AND SHALL INSTALL LATERAL CONTROL JOINTS AS REQUIRED (8'–0" MAX. SPACING). SLOPE SIDEWALK AS SHOWN ON PLANS OR ROADWAY SECTIONS (MINIMUM SLOPE = 1% )
2. CONCRETE SHALL BE 4000 PSI.

### CONCRETE WALKWAY DETAIL

NOT TO SCALE

CONCRETE BARRIER




SITE LAYOUT PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
CIVIL LAYOUT PLAN

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
Jamaica Plain VA Medical Center
VA Boston Healthcare System

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Medical Center**
VAMC Jamaica Plain

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | JMS | JRD | V2-C202 |

VA FORM 08 - 6231

## STRUCTURAL NOTES:

DESIGN
IN ACCORDANCE WITH:
1. 2023 U.S. DEPARTMENT OF VETERANS AFFAIRS STRUCTURAL DESIGN MANUAL (PG-18-10)
2. 2023 NFPA 55: COMPRESSED GASES AND CRYOGENIC FLUIDS CODE

EXCAVATIONS
CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF EXCAVATION (S.O.E) AS REQUIRED TO ENSURE COMPLETE SAFETY OF THE PROJECT'S CONSTRUCTION AND PREVENT ANY DAMAGE TO ADJACENT PROPERTIES, INCLUDING BUT NOT LIMITED TO EXISTING STREETS, PARKING LOTS, BUILDINGS AND UTILITY LINES.

CONTRACTOR'S S.O.E SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR'S DESIGN SHALL BE SUBMITTED TO THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) FOR REVIEW AND APPROVAL.

FOUNDATIONS & STRUCTURAL SLABS
FOUNDATIONS AND STRUCTURAL SLABS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE PRIOR APPROVAL OF THE COR.

ALL FOUNDATIONS AND SLABS SHALL BEAR ON SUITABLE COMPACTED EXISTING SOIL OR COMPACTED GRAVEL FILL. NO FOUNDATIONS OR SLABS SHALL BE CAST IN WATER OR ON FROZEN GROUND.

LAYOUT COORDINATION
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS VIA SURVEY, FIELD MEASUREMENTS, TEST PROBES, TEST PITS, AND ANY OTHER MEANS PRIOR TO CONSTRUCTION.

UNSUITABLE MATERIAL
ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE PROPOSED STRUCTURE TO A MINIMUM DEPTH OF 12" BELOW THE STRUCTURE AND BE DISPOSED OF LEGALLY, AS DIRECTED BY THE COR.

CONCRETE
ALL CONCRETE SHALL BE READY-MIXED AND COMPLY WITH ACI 318 AND ASTM C94. ANCHOR RODS SHALL BE ASTM F1554 GRADE 55, SHALL COMPLY WITH ACI 318 AND BE GALVANIZED PER ASTM A153.

THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 5000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00, UNLESS OTHERWISE NOTED.

FOR BOLLARDS, BOLLARD FOUNDATIONS, AND FENCE POST FOUNDATIONS, THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 3000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00.

NON-SHRINK GROUT TO COMPLY WITH ASTM C1107.

REINFORCEMENT
1. REINFORCING STEEL AND DOWELS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

| MODIFICATION CONDITION | #4 BARS | #5 BARS |
|---|---|---|
| 1. NONE | 16" | 17" |
| 2. 12" OF CONCRETE BELOW BAR | 18" | 22" |
| 3. COATED BARS, COVER < $3d_b$, OR CLEAR SPACING < $6d_b$ | 21" | 26" |
| 4. COATED BARS, ALL OTHER CASES | 17" | 21" |
| 5. CONDITION 2. AND 3. | 23" | 29" |
| 6. CONDITION 2. AND 4. | 21" | 27" |

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS. REINFORCING STEEL SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE BOTTOM AND SIDE FACES OF CONCRETE AND SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE TOP FACE OF CONCRETE, UNLESS OTHERWISE SHOWN ON THE PLANS.

2. REINFORCING STEEL AND DOWELS SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775.
3. THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE REINFORCING BAR LAYOUT AND LOCATIONS OF ALL JOINTS FOR REVIEW AND APPROVAL OF THE COR.

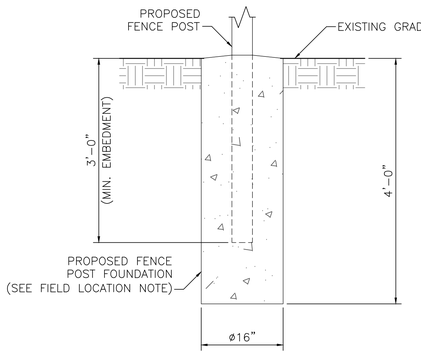
FIRE BARRIER WALL:
THE PREFABRICATED FIRE BARRIER WALL IS TO BE DESIGNED BY OTHERS. THE DELEGATED DESIGN ITEM SHALL BE DESIGNED IN ACCORDANCE WITH:
1. 2023 U.S. DEPARTMENT OF VETERANS AFFAIRS STRUCTURAL DESIGN MANUAL (PG-18-10)
2. 2023 NFPA 55: COMPRESSED GASES AND CRYOGENIC FLUIDS CODE

THE FIRE BARRIER WALL FOUNDATION AND ANCHORAGE HAVE BEEN DESIGNED FOR THE FOLLOWING LOADS, TAKEN FROM THE PRELIMINARY FIRE BARRIER WALL DESIGN BY OLDCASTLE INFRASTRUCTURE:
1. $P_u$ = 3.06KIPS
2. $M_u$ = 34.19K-FT
3. $V_u$ = 4.14KIPS

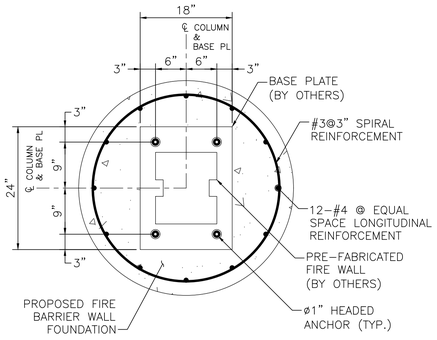
THE REACTIONS INTO THE FOUNDATION SHALL NOT EXCEED THE FORCES LISTED ABOVE WITHOUT APPROVAL BY THE COR.

STEEL PIPE BOLLARD:
STEEL PIPE BOLLARDS SHALL BE ASTM A53 TYPE S GRADE A GALVANIZED STEEL.

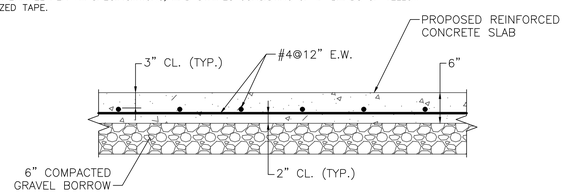
BOLLARDS SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO. 1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS, AND STRIPES CONSISTING OF 4" BANDS OF YELLOW REFLECTORIZED TAPE.



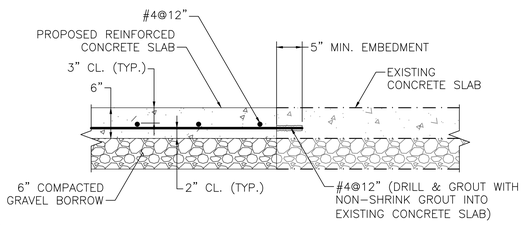

FENCE POST FOUNDATION DETAIL
SCALE: 1" = 1'-0"




SECTION B
FIRE BARRIER WALL FOUNDATION
SCALE: 1" = 1'-0"



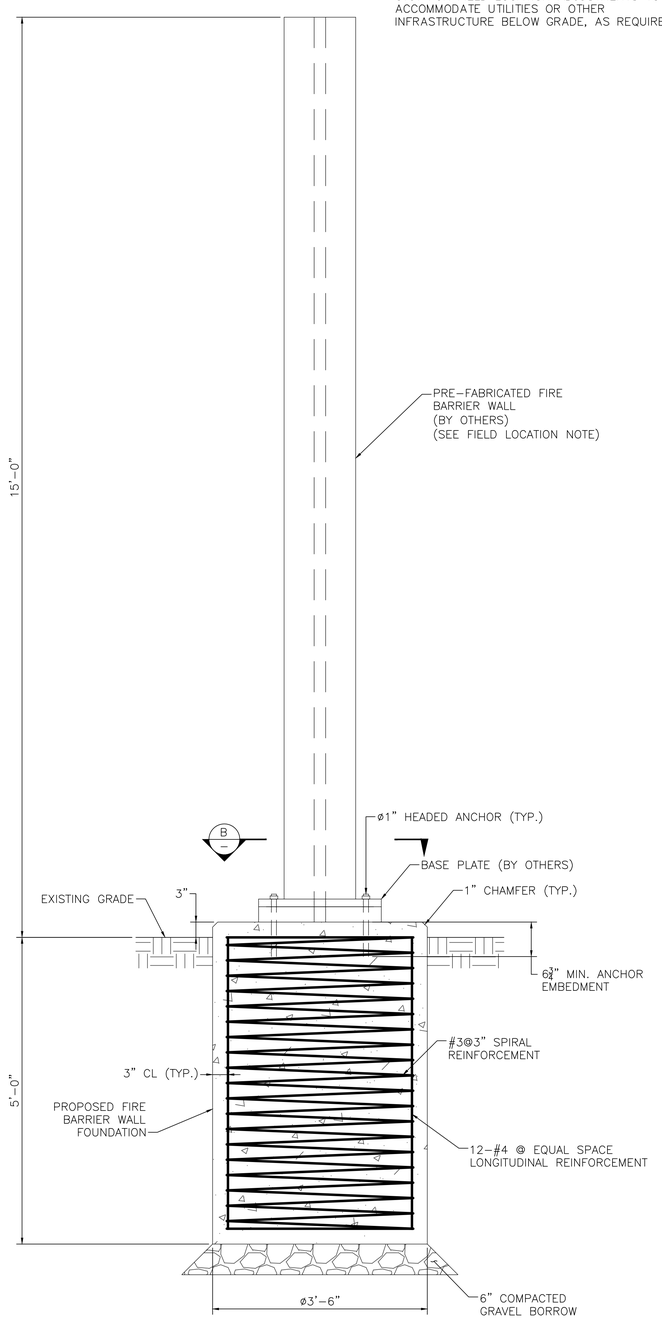

TYPICAL SECTION
REINFORCED CONCRETE SLAB
SCALE: 1" = 1'-0"



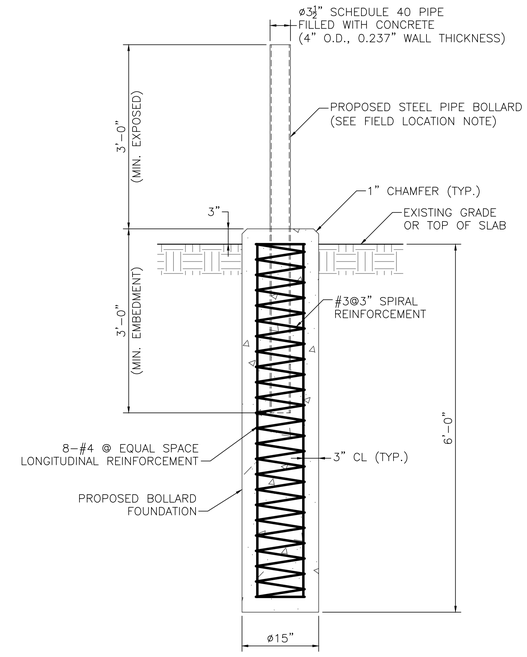

NOTE:
THIS DETAIL IS APPLICABLE AT LOCATIONS WHERE AN EXTENSION TO AN EXISTING CONCRETE SLAB IS REQUIRED TO COMPLY WITH NFPA 55.

TYPICAL SECTION
REINFORCED CONCRETE SLAB CONSTRUCTION JOINT
SCALE: 1" = 1'-0"

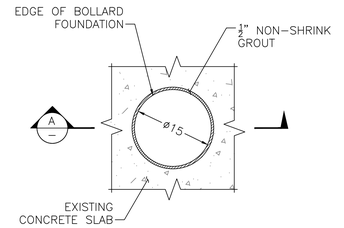
FIELD LOCATION NOTE:
REFERENCE GENERAL NOTES IN DRAWING No. C101 FOR FIELD LOCATION ADJUSTMENTS TO ACCOMMODATE UTILITIES OR OTHER INFRASTRUCTURE BELOW GRADE, AS REQUIRED.



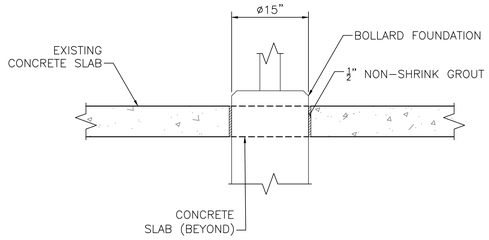

FIRE BARRIER WALL DETAIL
SCALE: 1" = 1'-0"




BOLLARD DETAIL
SCALE: 1" = 1'-0"




DETAIL
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"




SECTION A
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"

| Revisions: | Date: |
|---|---|
| | |

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**STAMP**

Office of Construction and Facilities Management
VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
STRUCTURAL DETAILS

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Location**
Jamaica Plain VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC Jamaica Plain

**Issue Date**
03/26/2026

**Checked**
NLR

**Drawn**
BJD

**Drawing Number**
V2-ST101

VA FORM 08 - 6231

# PIPING SYMBOLS AND ABBREVIATIONS

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT.

## SHEET SYMBOLS

- EQ / # — SCHEDULED EQUIPMENT DESIGNATION.
  -TOP INDICATES EQUIPMENT ABBREVIATION
  -BOTTOM INDICATES EQUIPMENT NUMBER
  REFER TO EQUIPMENT SCHEDULES
- 2 — SPECIALTY ITEMS (I.E. GAUGE FILTER, ETC.) REFER TO EQUIPMENT LIST
- REFER / P-1 — PLAN CONTINUATION REFERENCE.
  -BOTTOM INDICATES ON WHICH SHEET CONTINUATION APPEARS
- 1 / P-1 — SECTION DESIGNATION.
  -TOP INDICATES SECTION NUMBER,
  -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- 2 / P-1 — DETAIL REFERENCE.
  -TOP INDICATES SECTION NUMBER,
  -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- A/15B-6 — DETAIL REFERENCE, INDICATING DETAIL NUMBER / SHEET ON WHICH DETAIL APPEARS.
- MATCHLINE DESIGNATION
- ELEVATION DESIGNATION. REFERENCE OFFICIAL PROJECT DATUM
- 1 — REVISION REFERENCE. REFER TO SHEET REVISION BLOCK
- 1 — SHEET KEYNOTE REFERENCE
- ROOM NAME / 101 — ROOM NAME & NUMBER DESIGNATION
- 1001 — CONSTRUCTION BULLETIN REVISION NUMBER
- POINT OF NEW CONNECTION TO EXISTING
- HALFTONE LIGHT LINE INDICATES EXISTING WORK
- HEAVY DASHED LINE WITH HATCH INDICATES EXISTING WORK TO BE DEMOLISHED
- HEAVY LINE INDICATES NEW WORK

## PIPING SYSTEM LABELS

**WATER**

| Label | Description |
|---|---|
| DCW | DOMESTIC COLD WATER |
| DHW | DOMESTIC HOT WATER |
| DHR | DOMESTIC HOT WATER RETURN |
| CSW | COLD SOFT WATER |
| HT | HEAT TRACE HOT WATER |
| NPW | NON-POTABLE WATER |
| DI | DEIONIZED WATER |
| RO | REVERSE OSMOSIS WATER |
| PW | PURE WATER |
| PCW | PROCESS COLD WATER |
| PHW | PROCESS HOT WATER |
| PHR | PROCESS HOT WATER RETURN |
| LCW | LAB COLD WATER |
| LHW | LAB HOT WATER |
| LHR | LAB HOT WATER RETURN |
| TF | TRAP FILLER LINE |
| TW | TEMPERED WATER |

**GASES**

| Label | Description |
|---|---|
| AR | ARGON |
| CA | COMPRESSED AIR |
| CO2 | CARBON DIOXIDE |
| H2 | HYDROGEN |
| LA | LABORATORY COMPRESSED AIR |
| LN2 | LIQUID NITROGEN |
| LVAC | LABORATORY VACUUM |
| MA | MEDICAL COMPRESSED AIR |
| MV | MEDICAL VACUUM |
| NG | NATURAL GAS |
| N2 | NITROGEN |
| N2O | NITROUS OXIDE |
| O2 | OXYGEN |
| WAGD | WASTE ANESTHETIC GAS DISPOSAL |
| WGE | WASTE GAS EVACUATION |

**WASTE OR STORM**

| Label | Description |
|---|---|
| SAN | WASTE OR SOIL |
| SD | SUBSOIL DRAIN |
| S | STORM |
| OD | OVERFLOW DRAIN |
| FM | FORCE MAIN |
| CWW | CLEARWATER WASTE |
| IW | INDIRECT WASTE |
| GW | GREASE WASTE |
| CRW | CORROSION RESISTANT WASTE |
| | UNDERFLOOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN |

**VENT**

| Label | Description |
|---|---|
| V | VENT |
| CWV | CLEARWATER VENT |
| CRV | CORROSION RESISTANT VENT |

## PIPING SYMBOLS

SINGLE / DOUBLE

- ELBOW DOWN
- ELBOW UP
- BOTTOM CONNECTION (45° OR 90°)
- TOP CONNECTION (45° OR 90°)
- D — 45° PIPE RISE(R) / DROP(D)
- TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE)
- EXISTING PIPING TO REMAIN
- LINE CONTINUATION BREAK
- FLOW DIRECTION
- CONNECTION POINT (DOUBLE: N/A)
- ECCENTRIC REDUCER (SINGLE: OR)
- CONCENTRIC REDUCER

## PIPE FITTINGS, VALVES, & SPECIALTIES

- PLUG VALVE
- GATE VALVE
- DIAPHRAGM VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BALANCING VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID VALVE
- BACKWATER VALVE
- THERMOSTATIC MIXING VALVE
- TEMPERATURE BLENDING VALVE
- PRESSURE RELIEF VALVE
- VALVE IN VERTICAL
- RPBP OR — REDUCED PRESSURE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- ZVB — ZONE VALVE BOX LABEL IS SHOWN ON FRONT OF VALVE BOX TO INDICATE ORIENTATION
- AAP OR MAP — AREA OR MASTER ALARM PANEL LABEL IS SHOWN ON FRONT OF PANEL TO INDICATE ORIENTATION
- EXPANSION JOINT
- PIPE FLEXIBLE CONNECTION
- DIRECTION OF PITCH (DOWN)
- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- WATER SYSTEM PIPELINE STRAINER
- PIPE GUIDE
- PIPE SLEEVE
- ANCHOR
- FLANGE
- UNION
- PIPE CAP
- FILTER
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- M — WATER METER
- WATER HAMMER ARRESTOR
- PRESSURE OR VACUUM SWITCH
- HEAT TRACE TERMINATION POINT
- HEAT TRACE POWER CONNECTION POINT
- HOSE BIBB
- WALL HYDRANT
- $ — SLIDE-OXYGEN OR VACUUM BOTTLE
- OUTLET
- FLOW SENSING DEVICE

## CIVIL UTILITIES SYSTEMS

| Label | Description |
|---|---|
| W | WATER LINE |
| SAN | SANITARY SEWER |
| STM | STORM SEWER |
| FM | FORCE MAIN |
| F | FIRE MAIN |
| | SHUTOFF VALVE |
| PIV | POST INDICATOR VALVE |

- FIRE HYDRANT
- MANHOLE
- CATCH BASIN OR INLET
- CURB INLET

## DRAINS AND CLEANOUTS

- FLOOR DRAIN/FLOOR SINK
- ROOF DRAIN
- HUB DRAIN
- FIXTURE WASTE TRAP
- CLEANOUT
- FCO — FLOOR CLEANOUT

## FIXTURE INSTALLATION

| FIXTURE | BARRIER FREE DESIGN | NON-BARRIER FREE |
|---|---|---|
| WATER CLOSET | FLOOR TO RIM - 17" | FLOOR TO RIM - 15" |
| URINAL | FLOOR TO RIM - 17", MIN. ONE PER ROOM | FLOOR TO RIM - 24" |
| LAVATORY | FLOOR TO RIM - 34", MAX. FLOOR TO UNDER APRON - 29" | FLOOR TO RIM - 31" |
| DRINKING FOUNTAIN | FLOOR TO SPOUT - 36", MAX. FLOOR TO UNDER APRON - 27" | FLOOR TO RIM - 40" |
| SHOWER VALVE | FLOOR TO VALVE - 42" | FLOOR TO VALVE - 48" |
| SHOWER HEAD | FLOOR TO HEAD - 60" ON HOSE ADJ. - 48" | FLOOR TO HEAD - 78", VARIES |

## ABBREVIATIONS

A - AIR
AAP - AREA ALARM PANEL
ACC - ACCESS
ACFM - ACTUAL CUBIC FEET PER MINUTE
ADB - ACID DILUTION BASIN
ADJ - ADJUSTABLE
AFF - ABOVE FINISHED FLOOR
ALT - ALTERNATE
AMPS - AMPERES
AP - ACCESS PANEL
APPROX - APPROXIMATE
ARCH - ARCHITECTURAL
ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSY - ASSEMBLY

BHP - BRAKE HORSEPOWER
BLDG - BUILDING
BOP - BOTTOM OF PIPE ELEVATION
BOT - BOTTOM
BT - BATHTUB
BTU - BRITISH THERMAL UNIT
BTUH - BRITISH THERMAL UNITS PER HOUR
BTWN - BETWEEN

CA - COMPRESSED AIR
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFM - CUBIC FEET PER MINUTE
CLG - CEILING
CM - COFFEE MAKER
CMU - CONCRETE MASONRY UNIT
CO - CLEANOUT
CO2 - CARBON DIOXIDE
CONN - CONNECTION / CONNECT
CONTR - CONTRACTOR
CORR - CORRIDOR
CS - CLINICAL SINK / COLD SOFT WATER / CUP SINK
CTE - CONNECT TO EXISTING
CTR - CENTER
CU - COPPER
CRVTR - CORROSIVE VENT THROUGH ROOF
CWW - CLEARWATER WASTE

D - DEPTH / DRAIN LINE
DCW - DOMESTIC COLD WATER
DET - DETAIL
DFU - DRAINAGE FIXTURE UNIT
DHR - DOMESTIC HOT WATER RETURN
DHW - DOMESTIC HOT WATER
DIA - DIAMETER
DIM - DIMENSION
DISCH - DISCHARGE
DN - DOWN / DOWNSPOUT NOZZLE
DS - DOWNSPOUT
DW - DISHWASHER
DWG - DRAWING

EA - EACH
EEW - EMERGENCY EYEWASH
EFF - EFFICIENCY
EOSC - EMERGENCY OXYGEN SUPPLY CONNECTION
EJ - EXPANSION JOINT
ELEC - ELECTRICAL
ELEV - ELEVATION
EQUIP - EQUIPMENT
ET - EXPANSION TANK
ETR - EXISTING TO REMAIN
ES - EMERGENCY SHOWER
EWC - ELECTRIC WATER COOLER
EWT - ENTERING WATER TEMPERATURE
EXP - EXPANSION
EXT - EXTERIOR

°F - FAHRENHEIT
FCO - FLOOR CLEANOUT
FD - FLOOR DRAIN
FLA - FULL LOAD AMPERES
FLR - FLOOR
FM - FORCE MAIN
FP - FIREPROOF
FPM - FEET PER MINUTE
FS - FLOOR SINK
FSEC - FOOD SERVICE EQUIPMENT CONTRACTOR
FT - FEET
FTHD - FEET HEAD
FTG - FOOTING

G - GAS
GA - GAUGE
GAL - GALLON
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GPH - GALLONS PER HOUR
GPM - GALLONS PER MINUTE

HB - HOSE BIBB
HD - HUB DRAIN
HP - HORSEPOWER
HR - HOSE REEL
HT - HEAT TRACE HOT WATER
HTR - HEATER
HVAC - HEATING, VENTILATING, & AIR CONDITIONING
HZ - HERTZ

ID - INSIDE DIAMETER
IE - INVERT ELEVATION
IM - ICE MAKER
IN - INCHES
IN WC - INCHES WATER COLUMN
IW - INDIRECT WASTE

JS - JANITOR'S SINK

KW - KILOWATT

L - LENGTH
LA - LABORATORY COMPRESSED AIR
LAV - LAVATORY
LBS - POUNDS
LTG - LIGHTING
LWT - LEAVING WATER TEMPERATURE

MAP - MASTER ALARM PANEL
MAX - MAXIMUM
MB - MOP BASIN
MBH - ONE THOUSAND BTUH
MC - MECHANICAL CONTRACTOR
MEZZ - MEZZANINE
MFR - MANUFACTURER
MH - MANHOLE
MIN - MINIMUM / MINUTE
MISC - MISCELLANEOUS
MTD - MOUNTED
MTG - MOUNTING

NC - NORMALLY CLOSED
NIC - NOT IN CONTRACT
NO - NUMBER
NOM - NOMINAL
NPSH - NET POSITIVE SUCTION HEAD
NPT - NATIONAL PIPE THREAD
NTS - NOT TO SCALE

OC - ON CENTER
OD - OUTSIDE DIAMETER / OVERFLOW DRAIN
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED, OWNER INSTALLED

P - PUMP
PC - PLUMBING CONTRACTOR
PH - PHASE
PIV - POST INDICATOR VALVE
PLBG - PLUMBING
PRESS - PRESSURE
PRV - PRESSURE REDUCING VALVE
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PSIG - POUNDS PER SQUARE INCH GAUGE
PW - PURE WATER

R - RADIUS
RAD - REFRIGERATED AIR DRYER
RD - ROOF DRAIN
REC - RECESSED
RECPT - RECEPTACLE
REF - REFERENCE
REQD - REQUIRED
RI - ROUGH-IN
RPM - REVOLUTIONS PER MINUTE
RV - RELIEF VALVE

S - STORM
SAN - SANITARY
SCH - SCHEDULE
SCFM - STANDARD CUBIC FEET PER MINUTE
SD - SUBSOIL DRAIN
SF - SQUARE FEET
SH - SHOWER
SHT - SHEET
SPEC - SPECIFICATION
SQ - SQUARE
SR - SERVICE RECEPTOR
S/S - STAINLESS STEEL
STD - STANDARD
STRU - STRUCTURAL / STRUCTURE
SUCT - SUCTION

TD - TRENCH DRAIN
TDH - TOTAL DYNAMIC HEAD
TEMP - TEMPERATURE
TMV - THERMOSTATIC MIXING VALVE
TOB - TOP OF BEAM
TOD - TOP OF DECK
TOJ - TOP OF JOIST
TOS - TOP OF SLAB / TOP OF STEEL
TF - TRAP FILLER
TP - TRAP PRIMER
TYP - TYPICAL

UR - URINAL

V - VENT / VOLTS
VAC - VACUUM
VEL - VELOCITY
VFD - VARIABLE FREQUENCY DRIVE
VOL - VOLUME
VTR - VENT THRU ROOF

W - WASTE / WATER
W/ - WITH
W/O - WITHOUT
WAGD - WASTE ANESTHETIC GAS DISPOSAL
WB - WALL BOX
WC - WATER CLOSET
WCO - WALL CLEANOUT
WGE - WASTE GAS EXHAUST
WH - WALL HYDRANT
WHA - WATER HAMMER ARRESTOR
WHTR - WATER HEATER
WSFU - WATER SUPPLY FIXTURE UNIT

X - EXISTING

YCO - YARD CLEANOUT

ZVB - ZONE VALVE BOX

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|---|---|
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| Revisions: | Date: |

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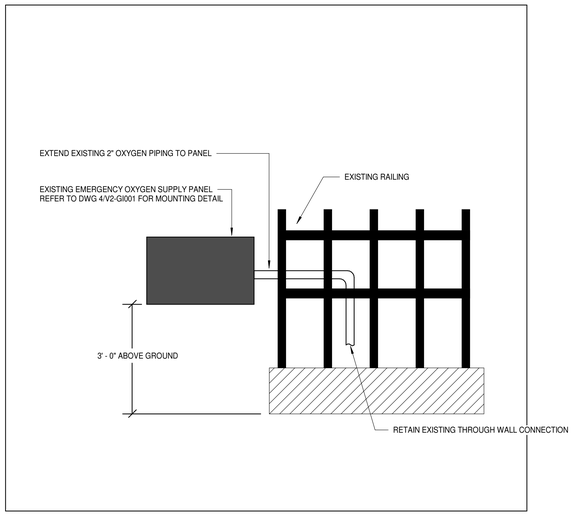
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: PLUMBING LEGEND
Approved:
Phase: BID DOCUMENTS
Project Title: Bulk Oxygen Corrections
Project Number: VA Project # 523-25-003, WPA Project # WPA1502
Location: VA Boston Healthcare System
Medical Center: VAMC Jamaica Plain
Issue Date: 07/16/2025
Checked:
Drawn:
Drawing Number: V2-P001




## 2 EMERGENCY OXYGEN SUPPLY CONNECTION

SCALE: NTS

**DEMOLITION NOTES**

1. PROJECT CONDITIONS
   A. THE CONTRACTOR SHALL COMPLETELY FAMILIARIZE HIMSELF WITH ALL EXISTING BUILDING AND SITE CONDITIONS AND LIMITATIONS WHICH MAY HAVE A BEARING ON THE OPERATIONS HEREIN SPECIFIED, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE DRAWINGS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR UNFORESEEN CONDITIONS THAT CAN BE DETERMINED FROM A CAREFUL EXAMINATION OF THE SITE AND AREAS TO BE RENOVATED.
   B. ITEMS OF VALUE WHICH ARE NOT INDICATED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
   C. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
   D. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING USED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED. COORDINATE ALL WORK WITH OWNER.
   E. ALL WORK MUST BE COORDINATED W/ OWNER PRIOR TO ANY COMMENCEMENT OF WORK.
2. SCOPE OF WORK
   A. PLUMBING
      1. COORDINATE WITH OWNER ON TEMPORARY OXYGEN SYSTEM SHUTDOWN. OXYGEN SOURCE VALVE SHALL BE IN THE CLOSED POSITION BEFORE PERFORMING ANY DEMOLITION WORK.
      2. CUT AND CAP 2" OXYGEN PIPING CONNECTING TO EMERGENCY OXYGEN SUPPLY CONNECTION PANEL(EOSC).
      3. REMOVE EMERGENCY OXYGEN SUPPLY PANEL FROM WALL AND STORE IN A CLEAN, DRY LOCATION. ALL OPENINGS IN THE PANEL SHALL BE COVERED TO AVOID ANY DUST,DIRT AND WATER FROM ENTERING.
3. REGULATORS REQUIREMENTS
   A. STRICTLY COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. HANDLING OF MATERIALS
   A. REMOVE ALL MATERIAL DEBRIS FROM THE SITE AS IT ACCUMULATES. DO NOT STORE, SELL, BURN, OR OTHERWISE DISPOSE OF DEBRIS ON SITE. REMOVE ALL MATERIALS IN SUCH MANNER AS TO PREVENT SPILLAGE. KEEP ALL PAVEMENTS AND AREAS ADJACENT TO AND LEADING FROM THE SITE, CLEAN AND FREE OF MUD, DIRT, AND DEBRIS AT ALL TIMES.
5. TRANSFER OF RESPONSIBILITY AND DISPOSITION OF MATERIALS
   A. UPON RECEIPT OF NOTICE TO PROCEED WITH THE WORK, THE TITLE TO ALL MATERIALS FOR DEMOLITION SHALL BE VESTED IN THE CONTRACTOR WHEREUPON THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS, OR DAMAGE TO SAID PROPERTY. ALL SUCH ITEMS SHALL BE REMOVED FROM THE OWNER'S PROPERTY.
6. CLEAN-UP AND REPAIR
   A. UPON COMPLETION OF DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT AND DEMOLISHED MATERIALS FROM SITE. REMOVE PROTECTION AND LEAVE INTERIOR AREAS BROOM CLEAN.
   B. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO EXISTING CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.

**NEW WORK NOTES**

GENERAL:
1. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
2. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL.
3. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL HVAC, PROCESS PIPING, SPRINKLER PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
7. ALL PIPING. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN A APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROVIDED WITH FIRE RATED SEALS AS REQUIRED.
8. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
9. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. PLUMBING
   1. MOUNT EXISTING EOSC PANEL TO NEW LOCATION AS INDICATED ON SITE PLAN.
   2. EXTEND AND CONNECT 2" OXYGEN PIPING TO PANEL.
   3. ENSURE ALL WORK COMPLIES WITH NFPA STANDARDS
   4. COORDINATE WITH OWNER TO RE-CERTIFY THE OXYGEN PRIOR TO RETURNING TO SERVICE.
B. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.

## 1 Jamaica Plain Site Plan

SCALE: 1" = 1'-0"

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| **100% Construction Documents** | **03/26/2026** |
| **Revisions:** | **Date:** |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
PLUMBING PLAN

**Approved:**

**Phase**
BID DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
VA Boston Healthcare System

**Issue Date**
07/16/2025

**Checked**

**Drawn**

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Medical Center**
VAMC Jamaica Plain

**Drawing Number**
V2-P201

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## DEMOLITION NOTES

1. PROJECT CONDITIONS
   A. THE CONTRACTOR SHALL COMPLETELY FAMILIARIZE HIMSELF WITH ALL EXISTING BUILDING AND SITE CONDITIONS AND LIMITATIONS WHICH MAY HAVE A BEARING ON THE OPERATIONS HEREIN SPECIFIED, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE DRAWINGS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR UNFORESEEN CONDITIONS THAT CAN BE DETERMINED FROM A CAREFUL EXAMINATION OF THE SITE AND AREAS TO BE RENOVATED.
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   E. ALL WORK MUST BE COORDINATED W/ OWNER PRIOR TO ANY COMMENCEMENT OF WORK.
2. SCOPE OF WORK
   A. ELECTRICAL/SECURITY
      1. COORDINATE WITH OWNER FOR ELECTRICAL SHUTDOWN AND REMOVE ALL LIGHTING AND SECURITY DEVICES AFFIXED TO THE CHAIN-LINK FENCE TO ENABLE ITS REMOVAL.
      2. SECURELY STORE ALL LIGHTING FIXTURES AND SECURITY DEVICES IN A CLEAN, DRY ENVIRONMENT FOR FUTURE REINSTALLATION.
3. REGULATORS REQUIREMENTS
   A. STRICTLY COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. HANDLING OF MATERIALS
   A. REMOVE ALL MATERIAL DEBRIS FROM THE SITE AS IT ACCUMULATES. DO NOT STORE, SELL, BURN, OR OTHERWISE DISPOSE OF DEBRIS ON SITE. REMOVE ALL MATERIALS IN SUCH MANNER AS TO PREVENT SPILLAGE. KEEP ALL PAVEMENTS AND AREAS ADJACENT TO AND LEADING FROM THE SITE, CLEAN AND FREE OF MUD, DIRT, AND DEBRIS AT ALL TIMES.
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## NEW WORK NOTES

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2. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
3. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
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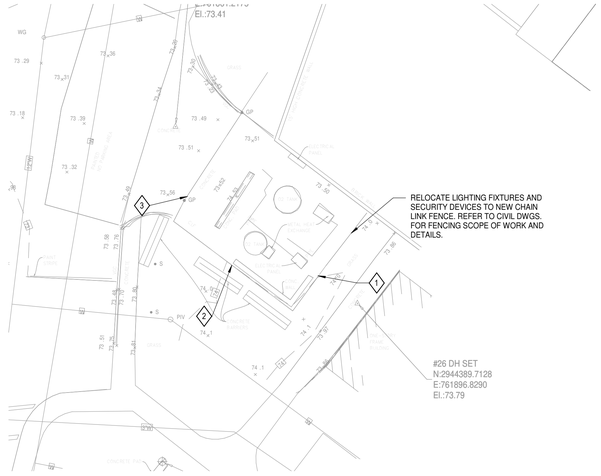
6. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
7. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.
   3. COORDINATE WITH OWNER TO RE-COMMISSION THE SYSTEM.

## KEY NOTES

1. ANY EXISTING GROUNDING ELECTRODE CONNECTIONS ON FENCE SHALL BE REMOVED BY CONTRACTOR. GROUNDING ELECTRODE SHALL BE REINSTALLED ON NEW FENCE USING 4 AWG COPPER WIRE FOR NEC COMPLIANCE.
2. ANY EXISTING LIGHTING FIXTURES PRESENT ON FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. LIGHTING FIXTURES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.
3. ANY SECURITY DEVICES AFFIXED TO THE EXISTING FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. SECURITY DEVICES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.




1 **JAMAICA PLAIN SITE PLAN ELECTRICAL**
SCALE: 1" = 1'-0"

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| Revisions: | Date: |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
ELECTRICAL PLAN

**Approved:**

**Phase**
BID DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
VA Boston Healthcare System

**Issue Date**
07/16/2025

**Checked**

**Drawn**

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Medical Center**
VAMC Jamaica Plain

**Drawing Number**
V2-E201

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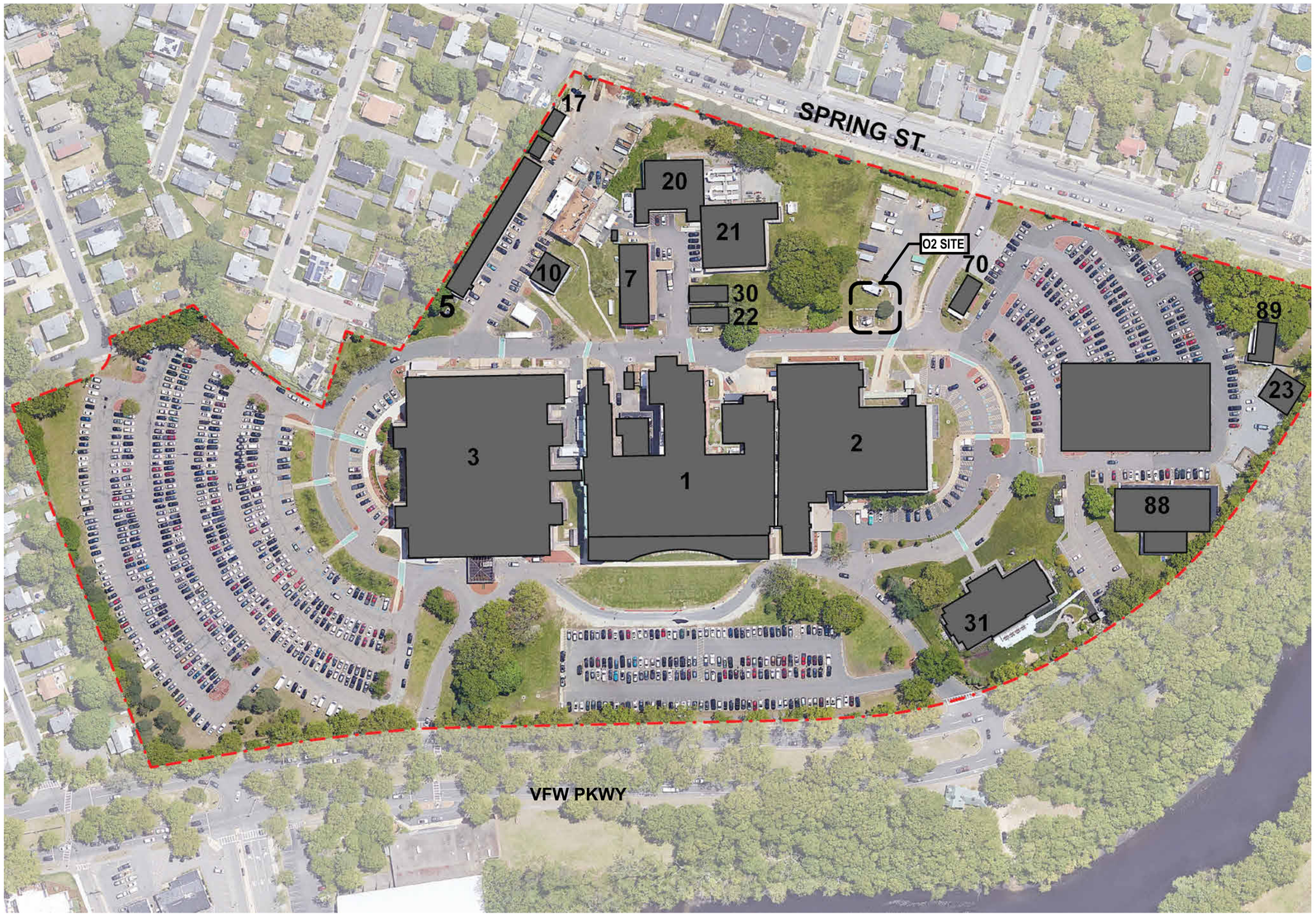
# DEPARTMENT OF VETERANS AFFAIRS
# BOSTON HEALTHCARE SYSTEM

## Bulk Oxygen Corrections

1400 VFW Pkwy, West Roxbury, MA 02132




# CONSTRUCTION DOCUMENTS
# VOLUME 3
# VAMC WEST ROXBURY

March 26, 2026

VA Project # 523-25-003
VA Contract # 36C24125R0010
VA PO # 523C7043

WPA Project # WPA1502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| Revisions: | Date: |
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: COVER - VAMC WEST ROXBURY

Phase: CONSTRUCTION DOCUMENTS

Approved:

Project Title: Bulk Oxygen Corrections

Project Number: VA Project # 523-25-003 WPA Project # WPA1502

Location: West Roxbury VA Medical Center VA Boston Healthcare System

Medical Center: VAMC West Roxbury

Issue Date: 03/26/2026

Checked:

Drawn:

Drawing Number: V3-GI000

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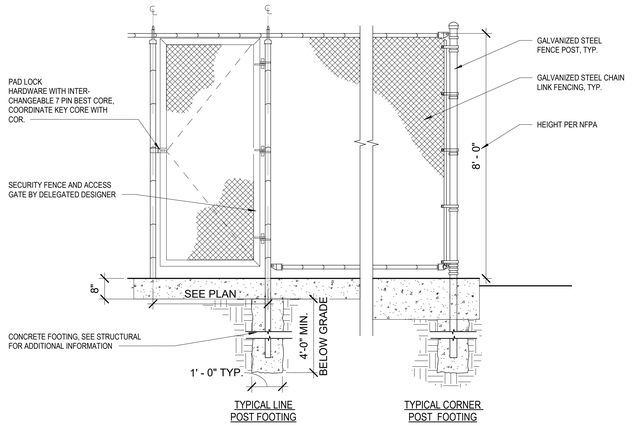



TYPICAL LINE POST FOOTING

TYPICAL CORNER POST FOOTING

02 CHAIN LINK FENCE DETAIL Copy 1
SCALE: 1/2" = 1'-0"

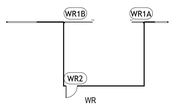
| Gate Schedule - WR | | | | |
|---|---|---|---|---|
| Mark | Width | Material | Hardware | Gate Type |
| WR1A | 6' - 0" | GALV. STEEL CHAIN LINK | HW-2 | Double Sliding Leaf A |
| WR1B | 14' - 6" | GALV. STEEL CHAIN LINK | HW-2 | Double Sliding Leaf B |
| WR2 | 3' - 0" | GALV. STEEL CHAIN LINK | HW-1 | Single Swing |

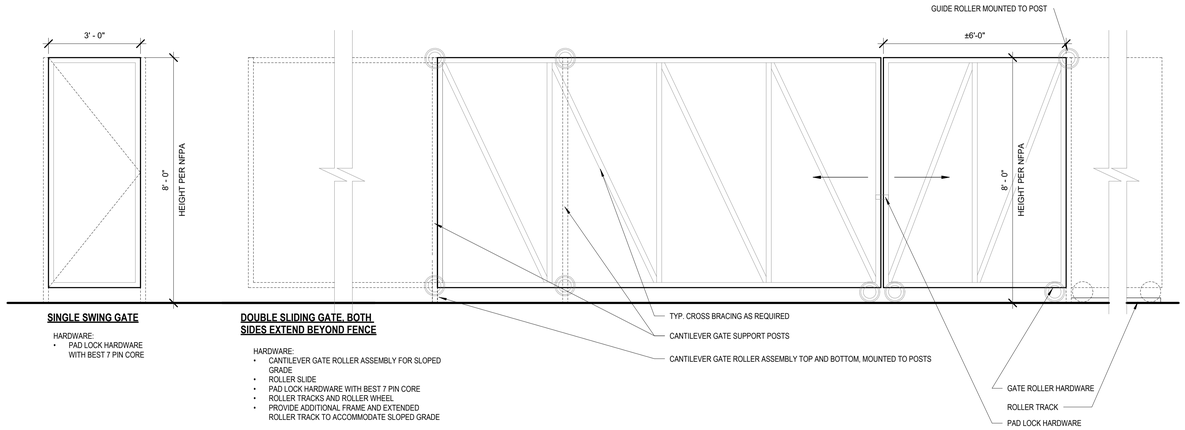
## HARDWARE TYPES:

HW-1
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE

HW-2
- ROLLER SLIDE
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE
- PROVIDE ROLLER TRACKS AND ROLLER WHEEL
- PROVIDE ADDITIONAL FRAME AND EXTENDED ROLLER TRACK TO ACCOMMODATE SLOPED GRADE

## GATE NUMBERS:




01 GATE SCHEDULE & LEGENDS - WR
SCALE: 1/2" = 1'-0"

## ABBREVIATIONS

| | |
|---|---|
| & | AND |
| L | ANGLE |
| @ | AT |
| CL | CENTERLINE |
| Ø | DIAMETER |
| # | POUND |
| AD | AREA DRAIN |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| ALUM | ALUMINUM |
| ALT | ALTERNATE |
| AV | AUDIOVISUAL |
| AVB | AIR VAPOR BARRIER |
| BO | BOTTOM OF |
| BOT | BOTTOM |
| BOS | BOTTOM OF STEEL |
| B/T | BENCH TOP |
| B/W | BETWEEN |
| CC | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED |
| CG | CORNER GUARD |
| CH | CEILING HEIGHT |
| CJ | CONTROL JOINT |
| CLG | CEILING |
| CMU | CONCRETE MASONRY UNIT |
| CO | CASED OPENING |
| COL | COLUMN |
| COMMS | COMMUNICATIONS |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| COORD | COORDINATE |
| CPT | CARPET |
| CR | CARD READER |
| CT | CERAMIC TILE |
| CUH | CABINET UNIT HEATER |
| CW | CURTAIN WALL |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DN | DOWN |
| DWG | DRAWING |
| E | EAST |
| EIFS | EXTERIOR INSULATION & FINISH SYSTEM |
| EJ | EXPANSION JOINT |
| EMER SHR | EMERGENCY SHOWER |
| EMERG | EMERGENCY |
| EP | ELECTRICAL PANEL |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| EWS | EYE WASH STATION |
| EXIST | EXISTING |
| EXT | EXTERIOR |
| F/F | FACE TO FACE |
| FACP | FIRE ALARM CONTROL PANEL |
| FCO | FLOOR CLEANOUT |
| FCU | FAN COIL UNIT |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FDV | FIRE DEPARTMENT VALVE |
| FEC | FIRE EXTINGUISHER CABINET |
| FE | FIRE EXTINGUISHER |
| FF | FINISH FACE |
| FH | FIRE HYDRANT |
| FHC | FIRE HOSE CABINET |
| FHR | FIRE HOSE RACK |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FTR | FINNED TUBE RADIATION |
| G | GAS |
| GALV | GALVANIZED |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFRC | GLASS FIBER REINFORCED CONCRETE |
| GFRG | GLASS FIBER REINFORCED GYPSUM |
| GWB | GYPSUM WALL BOARD |
| HB | HOSE BIBB |
| HORIZ | HORIZONTAL |
| HPT | HIGH POINT |
| HR | HOUR |
| HVAC | HEATING, VENTILATION, AIR CONDITIONING |
| HW | HOT WATER |
| ID | INSIDE DIAMETER |
| IF | INSIDE FACE |
| IG | INSULATED GLASS |
| INT | INTERIOR |
| L | LEFT |
| LGMF | LIGHT GAUGE METAL FRAMING |
| LPT | LOW POINT |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MH | MANHOLE |
| MH | MENTAL HEALTH |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MO | MASONRY OPENING |
| N | NORTH |
| NIC | NOT IN CONTRACT |
| NRP | NON-REMOVABLE PIN |
| NTS | NOT TO SCALE |
| OA | OVERALL |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OF | OUTSIDE FACE |
| OFCI | OWNER FURNISHED/CONTRACTOR INSTALLED |
| OFD | OVERFLOW DRAIN |
| OPH | OPPOSITE HAND |
| O | OXYGEN |
| R | RISER |
| RCP | REFLECTED CEILING PLAN |
| RD | ROOF DRAIN |
| REINF | REINFORCED |
| REQ/REQ'D | REQUIRED |
| RM | ROOM |
| RO | ROUGH OPENING |
| RWL | RAIN WATER LEADER |
| S | SOUTH |
| SIM | SIMILAR |
| SOG | SLAB ON GRADE |
| SST | STAINLESS STEEL |
| STRUC | STRUCTURAL |
| TD | TRENCH DRAIN |
| TO | TOP OF |
| TOC | TOP OF CONCRETE SLAB |
| TOS | TOP OF STEEL |
| TOW | TOP OF WALL |
| TPO | THERMOPLASTIC POLYOLEFIN |
| TYP | TYPICAL |
| UL | UNDERWRITERS LABORATORIES |
| UON | UNLESS OTHERWISE NOTED |
| VC | VA FURNISHED, CONTRACTOR INSTALLED |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| VV | VA FURNISHED, VA INSTALLED |
| W | WEST |
| WH | WALL HYDRANT |

## GENERAL NOTES

1. CONTRACTOR SHALL NOT SHUT-OFF AND/OR INTERRUPT O2 SUPPLY TO HOSPITAL WITHOUT EXPLICIT WRITTEN PERMISSION FROM THE AUTHORIZED VA COR. CONTRACTOR SHALL BE REQUIRED TO COORDINATE TEMPORARY O2 SUPPLY FOR ALL SHUTDOWN(S) USING THE VA FACILITY SUPPLIERS. ALL REQUEST(S) FOR SHUT DOWN SHALL BE MADE MIN. OF 2 WEEKS IN ADVANCE.
2. CONTRACTOR SHALL PREPARE AND REVIEW WORK PLAN WITH THE VA COR AND PROVIDE ADDITIONAL DOCUMENTATION AS REQUIRED BY VA PRIOR TO START OF WORK.
3. CONTRACTOR IS REQUIRED TO PROVIDE GROUND PENETRATING RADAR SCANS OF ALL AREAS WHERE EXCAVATION IS REQUIRED. CONTRACTOR SHALL NOTIFY THE COR OF ANY POTENTIAL CONFLICTS.
4. CONTRACTOR TO NOTIFY COR OF BELOW GRADE CONFLICTS WITH NEW LAYOUT AND ADJUST LOCATION OF PIERS AND FOUNDATIONS TO ACCOMMODATE.
5. DO NOT SCALE DRAWINGS.
6. DIMENSIONS ARE INTENDED TO COMMUNICATE DESIGN INTENT ONLY AND SHALL NOT BE USED FOR THE PURPOSES OF FABRICATION OR INSTALLATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS INDICATED ON DRAWINGS PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR TO NOTE TERMS SUCH AS "FLUSH," "ALIGN," "MATCH," "CENTER" AND SIMILAR AS THESE TAKE PRECEDENT OVER DIMENSIONAL NOTATION AND SCHEDULED SYSTEMS.
7. CONTRACTOR SHALL INSTALL MATERIALS IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. SUBMITTAL SHOP DRAWINGS:
   A. ORIGINAL DRAWINGS SHALL BE PREPARED BY CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR, WHICH ILLUSTRATE SOME PORTION OF THE WORK, SHOWING FABRICATION, LAYOUT, SETTING, OR ERECTION OF DETAILS.
   B. SHOP DRAWINGS SHALL BE PREPARED BY A QUALIFIED DETAILER.
   C. DETAILS SHALL BE IDENTIFIED BY REFERENCE TO SHEET AND DETAIL NUMBERS INDICATED ON CONTRACT DRAWINGS.
   D. DO NOT REPRODUCE CONTRACT DOCUMENTS.
   E. THE CONTRACTOR SHALL COORDINATE ALL SUCH DRAWINGS, AND REVIEW THEM FOR ACCURACY, COMPLETENESS, AND COMPLIANCE WITH CONTRACT REQUIREMENTS AND SHALL INDICATE ITS APPROVAL THEREON AS EVIDENCE OF SUCH COORDINATION AND REVIEW.
9. CONTRACT LIMIT LINES SHALL BE WHERE INDICATED ON THE DRAWINGS. HOWEVER, IN ORDER TO COMPLETE OR FACILITATE INDICATED WORK, CONTRACTOR MAY BE REQUIRED TO CARRY OUT WORK ADJACENT TO, BUT OUTSIDE INDICATED LIMITS. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS TO BUILDINGS TO COORDINATE WORK.
10. PROVIDE SECURE CONSTRUCTION FENCING AROUND ALL AREA OF CONSTRUCTION, EXCAVATION, AND STORAGE AREAS.
11. THE DEPARTMENT OF VETERANS AFFAIRS IS THE AUTHORITY HAVING JURISDICTION. THE MASSACHUSETTS OFFICE OF PUBLIC SAFETY AND INSPECTION NOR THE LOCAL INSPECTIONAL SERVICES HAS JURISDICTION OVER THIS PROJECT. THE PROJECT HAS BEEN DESIGNED TO MEET NFPA AND CERTAIN CRITERIA OF MA BUILDING CODES AS NOTED.

## SYMBOLS

DOOR / WINDOW SYMBOL (XXXX)

DETAIL (XX) DETAIL NAME SCALE 1/8" = 1'-0"

DETAIL CALLOUT: DETAIL IDENTIFICATION / SHEET NUMBER

SECTION: SECTION IDENTIFICATION / SHEET NUMBER

DETAIL: DETAIL IDENTIFICATION / SHEET NUMBER

## LINETYPES

OVERHEAD (OVERCOUNTER AND SOFFITS)

BELOW AND BEYOND (UNDERCOUNTER AND FOOTINGS)

REFERENCE (COLUMN LINES AND MATCHLINES)

BREAK LINE

DOCUMENT REVISION (01)

LIMIT OF WORK

## SHEET LIST

| Sheet Number | Sheet Name |
|---|---|
| GENERAL INFORMATION | |
| V3-GI000 | COVER - VAMC WEST ROXBURY |
| V3-GI001 | GENERAL NOTES, PROJECT INFORMATION, SHEET LIST |
| CIVIL | |
| V3-C101 | SITE DEMOLITION PLAN |
| V3-C201 | CIVIL LAYOUT PLAN |
| STRUCTURAL | |
| V3-ST101 | STRUCTURAL DETAILS |
| PLUMBING | |
| V3-P001 | PLUMBING LEGEND |
| V3-P201 | PLUMBING PLAN |
| ELECTRICAL | |
| V3-E201 | ELECTRICAL PLAN |
| 8 | |

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: GENERAL NOTES, PROJECT INFORMATION, SHEET LIST

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections

Location: West Roxbury VA Medical Center
VA Boston Healthcare System

Medical Center: VAMC West Roxbury

Issue Date: 03/26/2026

Checked:

Drawn:

Project Number: VA Project # 523-25-003
WPA Project # WPA1502

Drawing Number: V3-GI001

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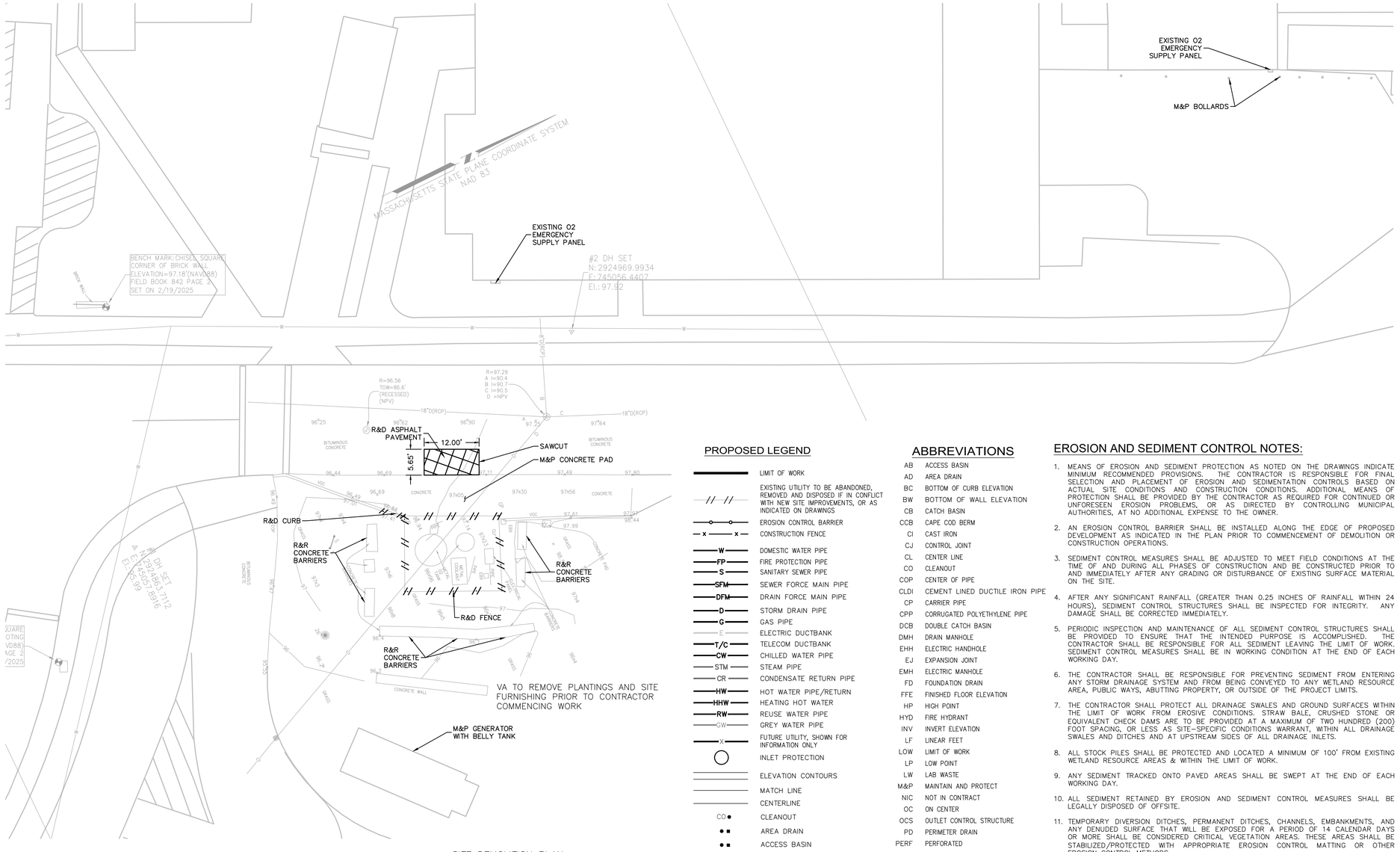
3/26/2026 9:07:40 AM

VA FORM 08 - 6231




SITE DEMOLITION PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

## PROPOSED LEGEND

- LIMIT OF WORK
- EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
- EROSION CONTROL BARRIER
- CONSTRUCTION FENCE
- W — DOMESTIC WATER PIPE
- FP — FIRE PROTECTION PIPE
- S — SANITARY SEWER PIPE
- SFM — SEWER FORCE MAIN PIPE
- DFM — DRAIN FORCE MAIN PIPE
- D — STORM DRAIN PIPE
- G — GAS PIPE
- E — ELECTRIC DUCTBANK
- T/C — TELECOM DUCTBANK
- CW — CHILLED WATER PIPE
- STM — STEAM PIPE
- CR — CONDENSATE RETURN PIPE
- HW — HOT WATER PIPE/RETURN
- HHW — HEATING HOT WATER
- RW — REUSE WATER PIPE
- GW — GREY WATER PIPE
- X — FUTURE UTILITY, SHOWN FOR INFORMATION ONLY
- INLET PROTECTION
- ELEVATION CONTOURS
- MATCH LINE
- CENTERLINE
- CO — CLEANOUT
- AREA DRAIN
- ACCESS BASIN
- DRAIN MANHOLE
- WATER QUALITY STRUCTURE
- CATCH BASIN
- DOUBLE CATCH BASIN
- WATER QUALITY INLET
- SEWER MANHOLE
- STMH — STEAM MANHOLE
- TMH — TELECOM MANHOLE
- EMH — ELECTRIC MANHOLE
- CWV — CHILLED WATER VALVE
- WV — WATER VALVE
- HYD — FIRE HYDRANT

## ABBREVIATIONS

| | |
|---|---|
| AB | ACCESS BASIN |
| AD | AREA DRAIN |
| BC | BOTTOM OF CURB ELEVATION |
| BW | BOTTOM OF WALL ELEVATION |
| CB | CATCH BASIN |
| CCB | CAPE COD BERM |
| CI | CAST IRON |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CO | CLEANOUT |
| COP | CENTER OF PIPE |
| CLDI | CEMENT LINED DUCTILE IRON PIPE |
| CP | CARRIER PIPE |
| CPP | CORRUGATED POLYETHYLENE PIPE |
| DCB | DOUBLE CATCH BASIN |
| DMH | DRAIN MANHOLE |
| EHH | ELECTRIC HANDHOLE |
| EJ | EXPANSION JOINT |
| EMH | ELECTRIC MANHOLE |
| FD | FOUNDATION DRAIN |
| FFE | FINISHED FLOOR ELEVATION |
| HP | HIGH POINT |
| HYD | FIRE HYDRANT |
| INV | INVERT ELEVATION |
| LF | LINEAR FEET |
| LOW | LIMIT OF WORK |
| LP | LOW POINT |
| LW | LAB WASTE |
| M&P | MAINTAIN AND PROTECT |
| NIC | NOT IN CONTRACT |
| OC | ON CENTER |
| OCS | OUTLET CONTROL STRUCTURE |
| PD | PERIMETER DRAIN |
| PERF | PERFORATED |
| PVC | POLYVINYL CHLORIDE PIPE |
| R&D | REMOVE AND DISPOSE |
| R&R | REMOVE AND REUSE |
| R&S | REMOVE AND STOCKPILE |
| RD | ROOF DRAIN |
| RIM | RIM ELEVATION |
| SMH | SEWER MANHOLE |
| SS | SEWER SERVICE |
| TC | TOP OF CURB ELEVATION |
| TW | TOP OF WALL ELEVATION |
| THH | TELECOM HANDHOLE |
| TMH | TELECOM MANHOLE |
| TOP | TOP OF PIPE |
| TOD | TOP OF DUCT BANK |
| TYP | TYPICAL |
| UD | UNDERDRAIN |
| USD | UNDERSLAB DRAIN |
| VGC | VERTICAL GRANITE CURB |
| WQI | WATER QUALITY INLET |
| WQS | WATER QUALITY STRUCTURE |
| WV | WATER VALVE |

## EROSION AND SEDIMENT CONTROL NOTES:

1. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
3. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
4. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
5. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
7. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSIVE CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
8. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
9. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
10. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUDED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
12. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
13. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
14. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE VA. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

## GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS", PREPARED FOR WILLIAM PEVEAR ARCHITECTS, PREPARED BY NITSCH ENGINERING, DATED MARCH 3, 2025.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25025C0068H, EFFECTIVE DATE 07/03/2024. THE SITE IS LOCATED IN ZONE X.
3. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE. THE CONTRACTOR TO PROVIDE GPR SCAN TO CONFIRM/LOCATE AND IDENTIFY BELOW GRADE INFRASTRUCTURE.
4. THE CONTRACTOR TO COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
8. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
10. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
12. ELEVATIONS REFER TO BOSTON CITY BASE.

## DEMOLITION NOTES:

1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

| Revisions: | Date: |
|---|---|
| | |

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Office of Construction and Facilities Management
VA | U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
SITE DEMOLITION PLAN

**Approved:**

**Phase**
CONSTRUCTION DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Location**
West Roxbury VA Medical Center
VA Boston Healthcare System

**Medical Center**
VAMC West Roxbury

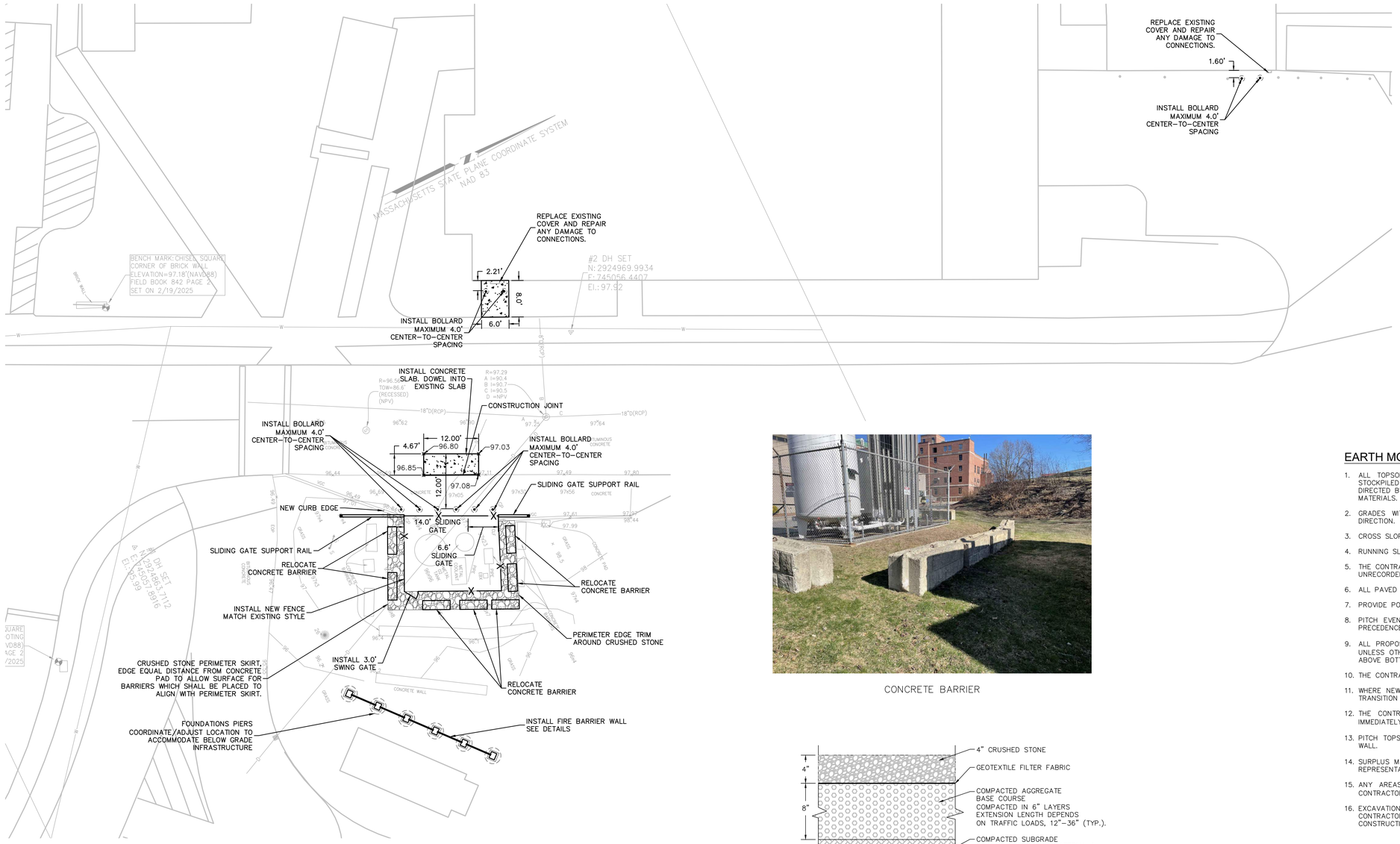
**Issue Date**
03/26/2026

**Checked**
JMS

**Drawn**
JRD

**Drawing Number**
V3-C101

VA FORM 08 - 6231




SITE LAYOUT PLAN

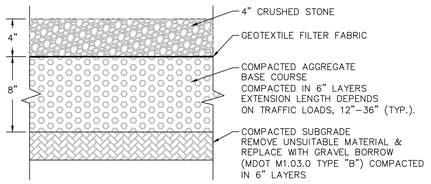
GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

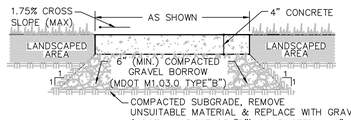


CONCRETE BARRIER




CRUSHED STONE PERIMETER SKIRT DETAIL

NOT TO SCALE




NOTES:
1. CONTRACTOR SHALL INSTALL AN EXPANSION JOINT AT ALL BUILDINGS AND ALL SIDEWALK INTERSECTIONS OR AT START OF CURVED SECTIONS AND SHALL INSTALL LATERAL CONTROL JOINTS AS REQUIRED (8'-0" MAX. SPACING). SLOPE SIDEWALK AS SHOWN ON PLANS OR ROADWAY SECTIONS (MINIMUM SLOPE = 1% )
2. CONCRETE SHALL BE 4000 PSI.

CONCRETE WALKWAY DETAIL

NOT TO SCALE

## EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%.
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
6. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
8. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING.
11. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
12. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
16. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO OWNER.

## ADDITIONAL NOTES:

1. RESTRIPE IN KIND FOR DISTURBED PAVEMENT AREAS

| Revisions: | Date: |
|---|---|
| | |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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: CIVIL LAYOUT PLAN

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections

Location: West Roxbury VA Medical Center
VA Boston Healthcare System

Medical Center: VAMC West Roxbury

Project Number: VA Project # 523-25-003
WPA Project # WPA1502

| Issue Date | Checked | Drawn | Drawing Number |
|---|---|---|---|
| 03/26/2026 | JMS | JRD | V3-C201 |

VA FORM 08 - 6231

## STRUCTURAL NOTES:

DESIGN
IN ACCORDANCE WITH:
1. 2023 U.S. DEPARTMENT OF VETERANS AFFAIRS STRUCTURAL DESIGN MANUAL (PG-18-10)
2. 2023 NFPA 55: COMPRESSED GASES AND CRYOGENIC FLUIDS CODE

EXCAVATIONS
CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF EXCAVATION (S.O.E) AS REQUIRED TO ENSURE COMPLETE SAFETY OF THE PROJECT'S CONSTRUCTION AND PREVENT ANY DAMAGE TO ADJACENT PROPERTIES, INCLUDING BUT NOT LIMITED TO EXISTING STREETS, PARKING LOTS, BUILDINGS AND UTILITY LINES.

CONTRACTOR'S S.O.E SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR'S DESIGN SHALL BE SUBMITTED TO THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) FOR REVIEW AND APPROVAL.

FOUNDATIONS & STRUCTURAL SLABS
FOUNDATIONS AND STRUCTURAL SLABS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE PRIOR APPROVAL OF THE COR.

ALL FOUNDATIONS AND SLABS SHALL BEAR ON SUITABLE COMPACTED EXISTING SOIL OR COMPACTED GRAVEL FILL. NO FOUNDATIONS OR SLABS SHALL BE CAST IN WATER OR ON FROZEN GROUND.

LAYOUT COORDINATION
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS VIA SURVEY, FIELD MEASUREMENTS, TEST PROBES, TEST PITS, AND ANY OTHER MEANS PRIOR TO CONSTRUCTION.

UNSUITABLE MATERIAL
ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE PROPOSED STRUCTURE TO A MINIMUM DEPTH OF 12" BELOW THE STRUCTURE AND BE DISPOSED OF LEGALLY, AS DIRECTED BY THE COR.

CONCRETE
ALL CONCRETE SHALL BE READY-MIXED AND COMPLY WITH ACI 318 AND ASTM C94. ANCHOR RODS SHALL BE ASTM F1554 GRADE 55, SHALL COMPLY WITH ACI 318 AND BE GALVANIZED PER ASTM A153.

THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 5000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00, UNLESS OTHERWISE NOTED.

FOR BOLLARDS, BOLLARD FOUNDATIONS, AND FENCE POST FOUNDATIONS, THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 3000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00.

NON-SHRINK GROUT TO COMPLY WITH ASTM C1107.

REINFORCEMENT
1. REINFORCING STEEL AND DOWELS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

| MODIFICATION CONDITION | #4 BARS | #5 BARS |
|---|---|---|
| 1. NONE | 16" | 17" |
| 2. 12" OF CONCRETE BELOW BAR | 18" | 22" |
| 3. COATED BARS, COVER < $3d_b$, OR CLEAR SPACING < $6d_b$ | 21" | 26" |
| 4. COATED BARS, ALL OTHER CASES | 17" | 21" |
| 5. CONDITION 2. AND 3. | 23" | 29" |
| 6. CONDITION 2. AND 4. | 21" | 27" |

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS. REINFORCING STEEL SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE BOTTOM AND SIDE FACES OF CONCRETE AND SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE TOP FACE OF CONCRETE, UNLESS OTHERWISE SHOWN ON THE PLANS.

2. REINFORCING STEEL AND DOWELS SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775.
3. THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE REINFORCING BAR LAYOUT AND LOCATIONS OF ALL JOINTS FOR REVIEW AND APPROVAL OF THE COR.

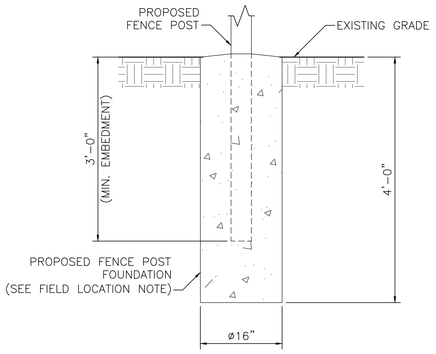
FIRE BARRIER WALL:
THE PREFABRICATED FIRE BARRIER WALL IS TO BE DESIGNED BY OTHERS. THE DELEGATED DESIGN ITEM SHALL BE DESIGNED IN ACCORDANCE WITH:
1. 2023 U.S. DEPARTMENT OF VETERANS AFFAIRS STRUCTURAL DESIGN MANUAL (PG-18-10)
2. 2023 NFPA 55: COMPRESSED GASES AND CRYOGENIC FLUIDS CODE

THE FIRE BARRIER WALL FOUNDATION AND ANCHORAGE HAVE BEEN DESIGNED FOR THE FOLLOWING LOADS, TAKEN FROM THE PRELIMINARY FIRE BARRIER WALL DESIGN BY OLDCASTLE INFRASTRUCTURE:
1. $P_u$ = 3.06KIPS
2. $M_u$ = 34.19K-FT
3. $V_u$ = 4.14KIPS

THE REACTIONS INTO THE FOUNDATION SHALL NOT EXCEED THE FORCES LISTED ABOVE WITHOUT APPROVAL BY THE COR.

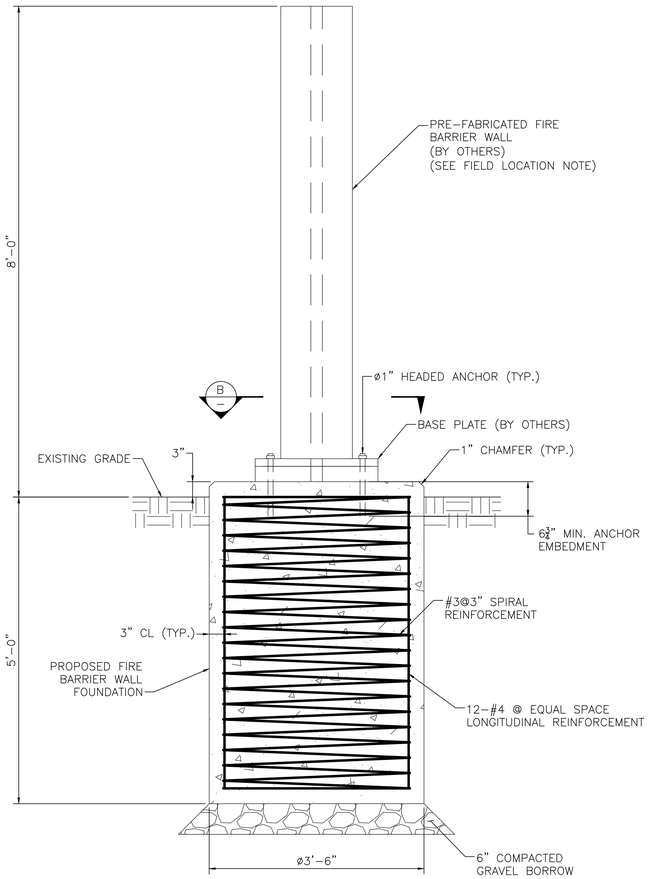
STEEL PIPE BOLLARD:
STEEL PIPE BOLLARDS SHALL BE ASTM A53 TYPE S GRADE A GALVANIZED STEEL.

BOLLARDS SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO. 1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS, AND STRIPES CONSISTING OF 4" BANDS OF YELLOW REFLECTORIZED TAPE.

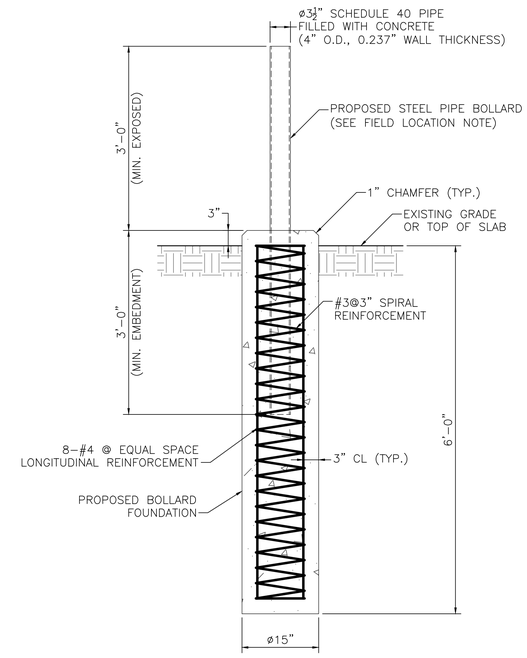



FENCE POST FOUNDATION DETAIL
SCALE: 1" = 1'-0"

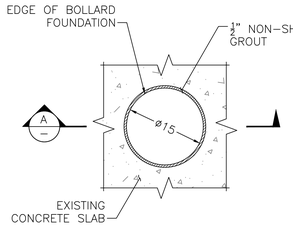
FIELD LOCATION NOTE:
REFERENCE GENERAL NOTES IN DRAWING No. C101 FOR FIELD LOCATION ADJUSTMENTS TO ACCOMMODATE UTILITIES OR OTHER INFRASTRUCTURE BELOW GRADE, AS REQUIRED.



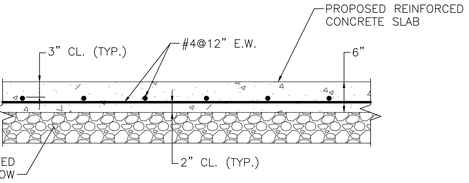

FIRE BARRIER WALL DETAIL
SCALE: 1" = 1'-0"



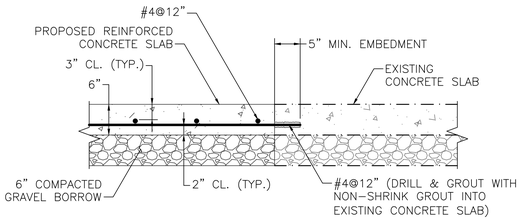

BOLLARD DETAIL
SCALE: 1" = 1'-0"




DETAIL
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"

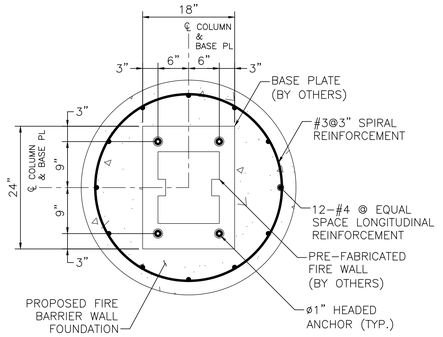



TYPICAL SECTION
REINFORCED CONCRETE SLAB
SCALE: 1" = 1'-0"

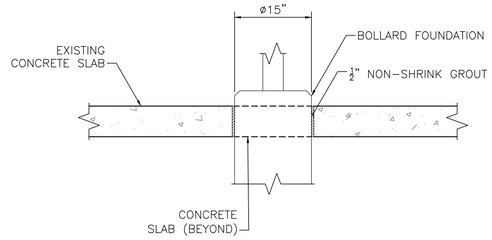



NOTE:
THIS DETAIL IS APPLICABLE AT LOCATIONS WHERE AN EXTENSION TO AN EXISTING CONCRETE SLAB IS REQUIRED TO COMPLY WITH NFPA 55.

TYPICAL SECTION
REINFORCED CONCRETE SLAB CONSTRUCTION JOINT
SCALE: 1" = 1'-0"




SECTION B
FIRE BARRIER WALL FOUNDATION
SCALE: 1" = 1'-0"




SECTION A
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"

| Revisions: | Date: |
|---|---|

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title:** STRUCTURAL DETAILS
**Approved:**

**Phase:** CONSTRUCTION DOCUMENTS

**Project Title:** Bulk Oxygen Corrections
**Location:** West Roxbury VA Medical Center, VA Boston Healthcare System
**Project Number:** VA Project # 523-25-003, WPA Project # WPA1502
**Medical Center:** VAMC West Roxbury
**Issue Date:** 03/26/2026
**Checked:** NLR
**Drawn:** BJD
**Drawing Number:** V3-ST101

VA FORM 08-6231

# PIPING SYMBOLS AND ABBREVIATIONS

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT.

## SHEET SYMBOLS

- EQ / # — SCHEDULED EQUIPMENT DESIGNATION.
  - -TOP INDICATES EQUIPMENT ABBREVIATION
  - -BOTTOM INDICATES EQUIPMENT NUMBER
  - REFER TO EQUIPMENT SCHEDULES
- 2 — SPECIALTY ITEMS (I.E. GAUGE FILTER, ETC.) REFER TO EQUIPMENT LIST
- REFER / P-1 — PLAN CONTINUATION REFERENCE.
  - -BOTTOM INDICATES ON WHICH SHEET CONTINUATION APPEARS
- 1 / P-1 — SECTION DESIGNATION.
  - -TOP INDICATES SECTION NUMBER,
  - -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- 2 / P-1 — DETAIL REFERENCE.
  - -TOP INDICATES SECTION NUMBER,
  - -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- A/15B-6 — DETAIL REFERENCE, INDICATING DETAIL NUMBER / SHEET ON WHICH DETAIL APPEARS.
- MATCHLINE DESIGNATION
- ELEVATION DESIGNATION. REFERENCE OFFICIAL PROJECT DATUM
- 1 — REVISION REFERENCE. REFER TO SHEET REVISION BLOCK
- 1 — SHEET KEYNOTE REFERENCE
- ROOM NAME / 101 — ROOM NAME & NUMBER DESIGNATION
- 1001 — CONSTRUCTION BULLETIN REVISION NUMBER
- POINT OF NEW CONNECTION TO EXISTING
- HALFTONE LIGHT LINE INDICATES EXISTING WORK
- HEAVY DASHED LINE WITH HATCH INDICATES EXISTING WORK TO BE DEMOLISHED
- HEAVY LINE INDICATES NEW WORK

## PIPING SYSTEM LABELS

WATER

| Label | Description |
|---|---|
| DCW | DOMESTIC COLD WATER |
| DHW | DOMESTIC HOT WATER |
| DHR | DOMESTIC HOT WATER RETURN |
| CSW | COLD SOFT WATER |
| HT | HEAT TRACE HOT WATER |
| NPW | NON-POTABLE WATER |
| DI | DEIONIZED WATER |
| RO | REVERSE OSMOSIS WATER |
| PW | PURE WATER |
| PCW | PROCESS COLD WATER |
| PHW | PROCESS HOT WATER |
| PHR | PROCESS HOT WATER RETURN |
| LCW | LAB COLD WATER |
| LHW | LAB HOT WATER |
| LHR | LAB HOT WATER RETURN |
| TF | TRAP FILLER LINE |
| TW | TEMPERED WATER |

GASES

| Label | Description |
|---|---|
| AR | ARGON |
| CA | COMPRESSED AIR |
| CO2 | CARBON DIOXIDE |
| H2 | HYDROGEN |
| LA | LABORATORY COMPRESSED AIR |
| LN2 | LIQUID NITROGEN |
| LVAC | LABORATORY VACUUM |
| MA | MEDICAL COMPRESSED AIR |
| MV | MEDICAL VACUUM |
| NG | NATURAL GAS |
| N2 | NITROGEN |
| N2O | NITROUS OXIDE |
| O2 | OXYGEN |
| WAGD | WASTE ANESTHETIC GAS DISPOSAL |
| WGE | WASTE GAS EVACUATION |

WASTE OR STORM

| Label | Description |
|---|---|
| SAN | WASTE OR SOIL |
| SD | SUBSOIL DRAIN |
| S | STORM |
| OD | OVERFLOW DRAIN |
| FM | FORCE MAIN |
| CWW | CLEARWATER WASTE |
| IW | INDIRECT WASTE |
| GW | GREASE WASTE |
| CRW | CORROSION RESISTANT WASTE |
| | UNDERFLOOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN |

VENT

| Label | Description |
|---|---|
| V | VENT |
| CWV | CLEARWATER VENT |
| CRV | CORROSION RESISTANT VENT |

## PIPING SYMBOLS

SINGLE / DOUBLE

- ELBOW DOWN
- ELBOW UP
- BOTTOM CONNECTION (45° OR 90°)
- TOP CONNECTION (45° OR 90°)
- D — 45° PIPE RISE(R) / DROP(D)
- TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE)
- EXISTING PIPING TO REMAIN
- LINE CONTINUATION BREAK
- FLOW DIRECTION
- CONNECTION POINT (DOUBLE: N/A)
- ECCENTRIC REDUCER (OR)
- CONCENTRIC REDUCER

## PIPE FITTINGS, VALVES, & SPECIALTIES

- PLUG VALVE
- GATE VALVE
- DIAPHRAGM VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BALANCING VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- SOLENOID VALVE (S)
- BACKWATER VALVE
- THERMOSTATIC MIXING VALVE
- TEMPERATURE BLENDING VALVE
- PRESSURE RELIEF VALVE
- VALVE IN VERTICAL
- RPBP OR — REDUCED PRESSURE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- ZVB — ZONE VALVE BOX LABEL IS SHOWN ON FRONT OF VALVE BOX TO INDICATE ORIENTATION
- AAP OR MAP — AREA OR MASTER ALARM PANEL LABEL IS SHOWN ON FRONT OF PANEL TO INDICATE ORIENTATION
- EXPANSION JOINT
- PIPE FLEXIBLE CONNECTION
- DIRECTION OF PITCH (DOWN)
- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- WATER SYSTEM PIPELINE STRAINER
- PIPE GUIDE
- PIPE SLEEVE
- ANCHOR
- FLANGE
- UNION
- PIPE CAP
- FILTER
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- M — WATER METER
- WATER HAMMER ARRESTOR
- PRESSURE OR VACUUM SWITCH
- HEAT TRACE TERMINATION POINT
- HEAT TRACE POWER CONNECTION POINT
- HOSE BIBB
- WALL HYDRANT
- $ — SLIDE-OXYGEN OR VACUUM BOTTLE
- OUTLET
- FLOW SENSING DEVICE

## CIVIL UTILITIES SYSTEMS

| Label | Description |
|---|---|
| W | WATER LINE |
| SAN | SANITARY SEWER |
| STM | STORM SEWER |
| FM | FORCE MAIN |
| F | FIRE MAIN |
| | SHUTOFF VALVE |
| PIV | POST INDICATOR VALVE |

- FIRE HYDRANT
- MANHOLE
- CATCH BASIN OR INLET
- CURB INLET

## DRAINS AND CLEANOUTS

- FLOOR DRAIN/FLOOR SINK
- ROOF DRAIN
- HUB DRAIN
- FIXTURE WASTE TRAP
- CLEANOUT
- FCO — FLOOR CLEANOUT

## FIXTURE INSTALLATION

| FIXTURE | BARRIER FREE DESIGN | NON-BARRIER FREE |
|---|---|---|
| WATER CLOSET | FLOOR TO RIM - 17" | FLOOR TO RIM - 15" |
| URINAL | FLOOR TO RIM - 17", MIN. ONE PER ROOM | FLOOR TO RIM - 24" |
| LAVATORY | FLOOR TO RIM - 34", MAX. FLOOR TO UNDER APRON - 29" | FLOOR TO RIM - 31" |
| DRINKING FOUNTAIN | FLOOR TO SPOUT - 36", MAX. FLOOR TO UNDER APRON - 27" | FLOOR TO RIM - 40" |
| SHOWER VALVE | FLOOR TO VALVE - 42" | FLOOR TO VALVE - 48" |
| SHOWER HEAD | FLOOR TO HEAD - 60" ON HOSE ADJ. - 48" | FLOOR TO HEAD - 78", VARIES |

## ABBREVIATIONS

| Abbreviation | Meaning |
|---|---|
| A | AIR |
| AAP | AREA ALARM PANEL |
| ACC | ACCESS |
| ACFM | ACTUAL CUBIC FEET PER MINUTE |
| ADB | ACID DILUTION BASIN |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| ALT | ALTERNATE |
| AMPS | AMPERES |
| AP | ACCESS PANEL |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| ASSY | ASSEMBLY |
| BHP | BRAKE HORSEPOWER |
| BLDG | BUILDING |
| BOP | BOTTOM OF PIPE ELEVATION |
| BOT | BOTTOM |
| BT | BATHTUB |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| BTWN | BETWEEN |
| CA | COMPRESSED AIR |
| CFCI | CONTRACTOR FURNISHED CONTRACTOR INSTALLED |
| CFM | CUBIC FEET PER MINUTE |
| CLG | CEILING |
| CM | COFFEE MAKER |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEANOUT |
| CO2 | CARBON DIOXIDE |
| CONN | CONNECTION / CONNECT |
| CONTR | CONTRACTOR |
| CORR | CORRIDOR |
| CS | CLINICAL SINK / COLD SOFT WATER / CUP SINK |
| CTE | CONNECT TO EXISTING |
| CTR | CENTER |
| CU | COPPER |
| CRVTR | CORROSIVE VENT THROUGH ROOF |
| CWW | CLEARWATER WASTE |
| D | DEPTH / DRAIN LINE |
| DCW | DOMESTIC COLD WATER |
| DET | DETAIL |
| DFU | DRAINAGE FIXTURE UNIT |
| DHR | DOMESTIC HOT WATER RETURN |
| DHW | DOMESTIC HOT WATER |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DISCH | DISCHARGE |
| DN | DOWN / DOWNSPOUT NOZZLE |
| DS | DOWNSPOUT |
| DW | DISHWASHER |
| DWG | DRAWING |
| EA | EACH |
| EEW | EMERGENCY EYEWASH |
| EFF | EFFICIENCY |
| EOSC | EMERGENCY OXYGEN SUPPLY CONNECTION |
| EJ | EXPANSION JOINT |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EQUIP | EQUIPMENT |
| ET | EXPANSION TANK |
| ETR | EXISTING TO REMAIN |
| ES | EMERGENCY SHOWER |
| EWC | ELECTRIC WATER COOLER |
| EWT | ENTERING WATER TEMPERATURE |
| EXP | EXPANSION |
| EXT | EXTERIOR |
| °F | FAHRENHEIT |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FLA | FULL LOAD AMPERES |
| FLR | FLOOR |
| FM | FORCE MAIN |
| FP | FIREPROOF |
| FPM | FEET PER MINUTE |
| FS | FLOOR SINK |
| FSEC | FOOD SERVICE EQUIPMENT CONTRACTOR |
| FT | FEET |
| FTHD | FEET HEAD |
| FTG | FOOTING |
| G | GAS |
| GA | GAUGE |
| GAL | GALLON |
| GALV | GALVANIZED |
| GC | GENERAL CONTRACTOR |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| HB | HOSE BIBB |
| HD | HUB DRAIN |
| HP | HORSEPOWER |
| HR | HOSE REEL |
| HT | HEAT TRACE HOT WATER |
| HTR | HEATER |
| HVAC | HEATING, VENTILATING, & AIR CONDITIONING |
| HZ | HERTZ |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IM | ICE MAKER |
| IN | INCHES |
| IN WC | INCHES WATER COLUMN |
| IW | INDIRECT WASTE |
| JS | JANITOR'S SINK |
| KW | KILOWATT |
| L | LENGTH |
| LA | LABORATORY COMPRESSED AIR |
| LAV | LAVATORY |
| LBS | POUNDS |
| LTG | LIGHTING |
| LWT | LEAVING WATER TEMPERATURE |
| MAP | MASTER ALARM PANEL |
| MAX | MAXIMUM |
| MB | MOP BASIN |
| MBH | ONE THOUSAND BTUH |
| MC | MECHANICAL CONTRACTOR |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MH | MANHOLE |
| MIN | MINIMUM / MINUTE |
| MISC | MISCELLANEOUS |
| MTD | MOUNTED |
| MTG | MOUNTING |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NPSH | NET POSITIVE SUCTION HEAD |
| NPT | NATIONAL PIPE THREAD |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER / OVERFLOW DRAIN |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED, OWNER INSTALLED |
| P | PUMP |
| PC | PLUMBING CONTRACTOR |
| PH | PHASE |
| PIV | POST INDICATOR VALVE |
| PLBG | PLUMBING |
| PRESS | PRESSURE |
| PRV | PRESSURE REDUCING VALVE |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| PW | PURE WATER |
| R | RADIUS |
| RAD | REFRIGERATED AIR DRYER |
| RD | ROOF DRAIN |
| REC | RECESSED |
| RECPT | RECEPTACLE |
| REF | REFERENCE |
| REQD | REQUIRED |
| RI | ROUGH-IN |
| RPM | REVOLUTIONS PER MINUTE |
| RV | RELIEF VALVE |
| S | STORM |
| SAN | SANITARY |
| SCH | SCHEDULE |
| SCFM | STANDARD CUBIC FEET PER MINUTE |
| SD | SUBSOIL DRAIN |
| SF | SQUARE FEET |
| SH | SHOWER |
| SHT | SHEET |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| SR | SERVICE RECEPTOR |
| S/S | STAINLESS STEEL |
| STD | STANDARD |
| STRU | STRUCTURAL / STRUCTURE |
| SUCT | SUCTION |
| TD | TRENCH DRAIN |
| TDH | TOTAL DYNAMIC HEAD |
| TEMP | TEMPERATURE |
| TMV | THERMOSTATIC MIXING VALVE |
| TOB | TOP OF BEAM |
| TOD | TOP OF DECK |
| TOJ | TOP OF JOIST |
| TOS | TOP OF SLAB / TOP OF STEEL |
| TF | TRAP FILLER |
| TP | TRAP PRIMER |
| TYP | TYPICAL |
| UR | URINAL |
| V | VENT / VOLTS |
| VAC | VACUUM |
| VEL | VELOCITY |
| VFD | VARIABLE FREQUENCY DRIVE |
| VOL | VOLUME |
| VTR | VENT THRU ROOF |
| W | WASTE / WATER |
| W/ | WITH |
| W/O | WITHOUT |
| WAGD | WASTE ANESTHETIC GAS DISPOSAL |
| WB | WALL BOX |
| WC | WATER CLOSET |
| WCO | WALL CLEANOUT |
| WGE | WASTE GAS EXHAUST |
| WH | WALL HYDRANT |
| WHA | WATER HAMMER ARRESTOR |
| WHTR | WATER HEATER |
| WSFU | WATER SUPPLY FIXTURE UNIT |
| X | EXISTING |
| YCO | YARD CLEANOUT |
| ZVB | ZONE VALVE BOX |

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| Revisions: | Date: |

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STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: PLUMBING LEGEND

Approved:

Phase: BID DOCUMENTS

Project Title: Bulk Oxygen Corrections

Project Number: VA Project # 523-25-003, WPA Project # WPA1502

Location: VA Boston Healthcare System

Medical Center: VAMC West Roxbury

Issue Date: 07/16/2025

Checked

Drawn

Drawing Number: V3-P001


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VA FORM 08 - 6231

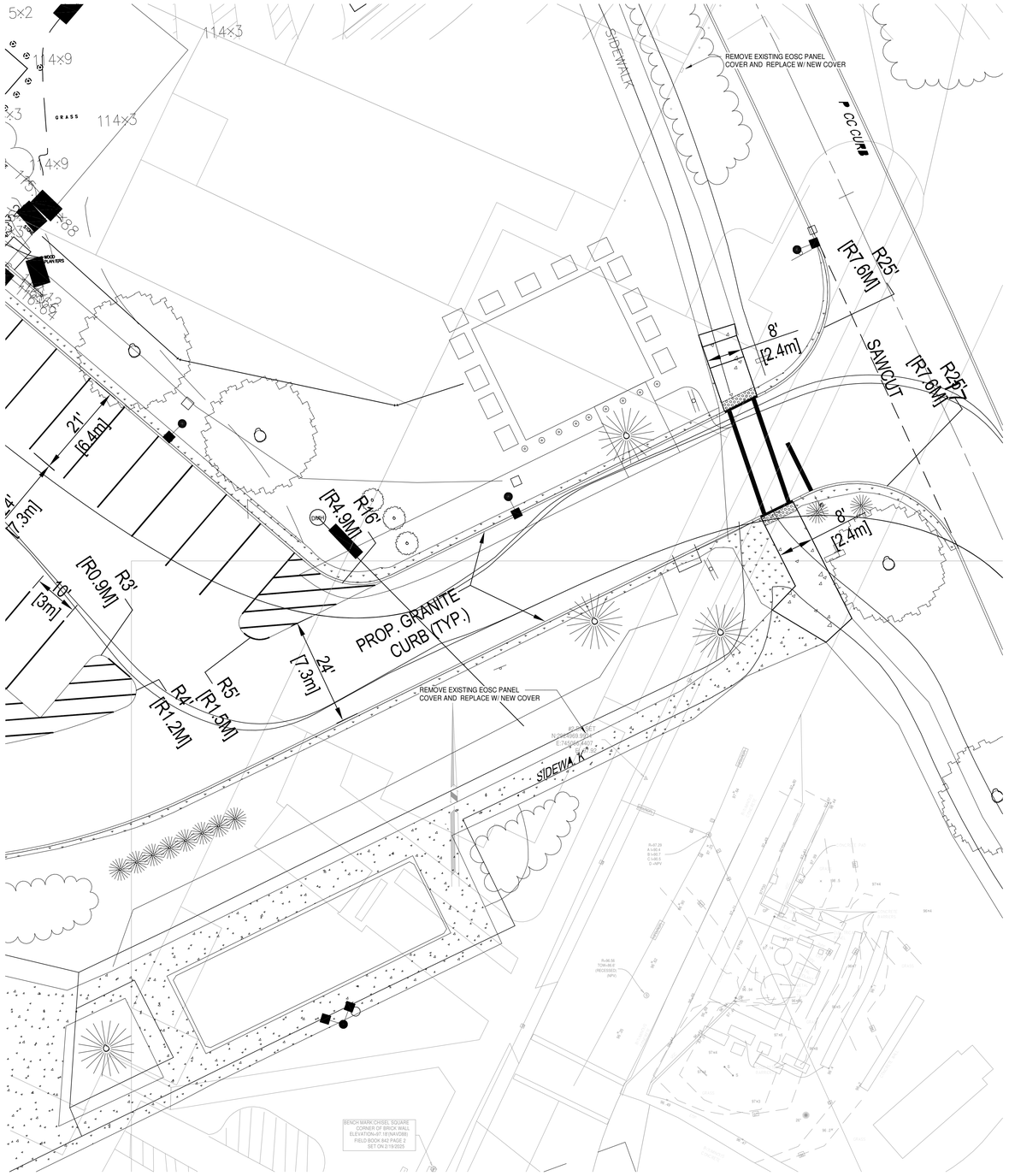
**DEMOLITION NOTES**

1. PROJECT CONDITIONS
   A. THE CONTRACTOR SHALL COMPLETELY FAMILIARIZE HIMSELF WITH ALL EXISTING BUILDING AND SITE CONDITIONS AND LIMITATIONS WHICH MAY HAVE A BEARING ON THE OPERATIONS HEREIN SPECIFIED, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE DRAWINGS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR UNFORESEEN CONDITIONS THAT CAN BE DETERMINED FROM A CAREFUL EXAMINATION OF THE SITE AND AREAS TO BE RENOVATED.
   B. ITEMS OF VALUE WHICH ARE NOT INDICATED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
   C. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
   D. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING USED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED. COORDINATE ALL WORK WITH OWNER.
   E. ALL WORK MUST BE COORDINATED W/ OWNER PRIOR TO ANY COMMENCEMENT OF WORK.
2. SCOPE OF WORK
   A. PLUMBING
      1. REMOVE EXISTING COVER.
   B. ELECTRICAL/SECURITY
      1. COORDINATE WITH OWNER FOR ELECTRICAL SHUTDOWN AND REMOVE ALL LIGHTING AND SECURITY DEVICES AFFIXED TO THE CHAIN-LINK FENCE TO ENABLE ITS REMOVAL.
      2. SECURELY STORE ALL LIGHTING FIXTURES AND SECURITY DEVICES IN A CLEAN, DRY ENVIRONMENT FOR FUTURE REINSTALLATION.
3. REGULATORS REQUIREMENTS
   A. STRICTLY COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. HANDLING OF MATERIALS
   A. REMOVE ALL MATERIAL DEBRIS FROM THE SITE AS IT ACCUMULATES. DO NOT STORE, SELL, BURN, OR OTHERWISE DISPOSE OF DEBRIS ON SITE. REMOVE ALL MATERIALS IN SUCH MANNER AS TO PREVENT SPILLAGE. KEEP ALL PAVEMENTS AND AREAS ADJACENT TO AND LEADING FROM THE SITE, CLEAN AND FREE OF MUD, DIRT, AND DEBRIS AT ALL TIMES.
5. TRANSFER OF RESPONSIBILITY AND DISPOSITION OF MATERIALS
   A. UPON RECEIPT OF NOTICE TO PROCEED WITH THE WORK, THE TITLE TO ALL MATERIALS FOR DEMOLITION SHALL BE VESTED IN THE CONTRACTOR WHEREUPON THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS, OR DAMAGE TO SAID PROPERTY. ALL SUCH ITEMS SHALL BE REMOVED FROM THE OWNER'S PROPERTY.
6. CLEAN-UP AND REPAIR
   A. UPON COMPLETION OF DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT AND DEMOLISHED MATERIALS FROM SITE. REMOVE PROTECTION AND LEAVE INTERIOR AREAS BROOM CLEAN.
   B. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO EXISTING CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.

**NEW WORK NOTES**

GENERAL:
1. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
2. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL.
3. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL HVAC, PROCESS PIPING, SPRINKLER PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
7. ALL PIPING. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN A APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROVIDED WITH FIRE RATED SEALS AS REQUIRED.
8. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
9. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. PLUMBING
   1. SUPPLY AND INSTALL A NEW PANEL COVER FROM THE ORIGINAL MANUFACTURER OR FABRICATE A COVER MATCHING THE EXISTING COVER'S DIMENSIONS, MATERIAL AND THICKNESS. THE COVER SHALL INCLUDE A LOCKING MECHANISM.
   2. IF A NEW PANEL COVER CANNOT BE SOURED OR FABRICATED, REMOVE EXISTING PANEL AND PROVIDE A NEW PANEL FROM BEACON MEDAES MODEL #140437-00.
   3. ENSURE ALL WORK COMPLIES WITH NFPA STANDARDS.
B. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.




**2 West Roxbury Site Plan**
SCALE: 1" = 1'-0"

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| **100% Construction Documents** | **03/26/2026** |
| **Revisions:** | **Date:** |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
PLUMBING PLAN

**Approved:**

**Phase**
BID DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
VA Boston Healthcare System

**Project Number**
VA Project # 523-25-003
WPA Project # WPA1502

**Medical Center**
VAMC West Roxbury

**Issue Date**
07/16/2025

**Checked**

**Drawn**

**Drawing Number**
V3-P201

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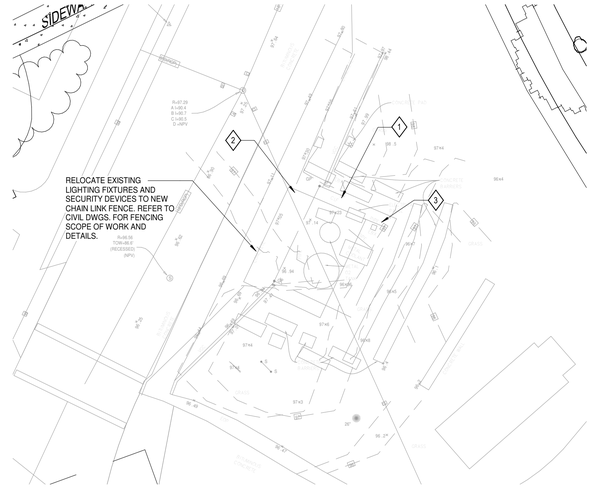
SCOPE OF WORK:
A. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.
   3. COORDINATE WITH OWNER TO RE-COMMISSION THE SYSTEM.

## KEY NOTES

1. ANY EXISTING GROUNDING ELECTRODE CONNECTIONS ON FENCE SHALL BE REMOVED BY CONTRACTOR. GROUNDING ELECTRODE SHALL BE REINSTALLED ON NEW FENCE USING 4 AWG COPPER WIRE FOR NEC COMPLIANCE.
2. ANY EXISTING LIGHTING FIXTURES PRESENT ON FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. LIGHTING FIXTURES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.
3. ANY SECURITY DEVICES AFFIXED TO THE EXISTING FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. SECURITY DEVICES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.




1 **WEST ROXBURY SITE PLAN ELECTRICAL**
SCALE: 1" = 1'-0"

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| **100% Construction Documents** | **03/26/2026** |
| **Revisions:** | **Date:** |

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

**Key Plan**

**Drawing Title**
ELECTRICAL PLAN

**Approved:**

**Phase**
BID DOCUMENTS

**Project Title**
Bulk Oxygen Corrections

**Location**
VA Boston Healthcare System

**Issue Date**
07/16/2025

**Checked**

**Drawn**

**Project Number**
VA Project # 523-25-003
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**Medical Center**
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**Drawing Number**
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