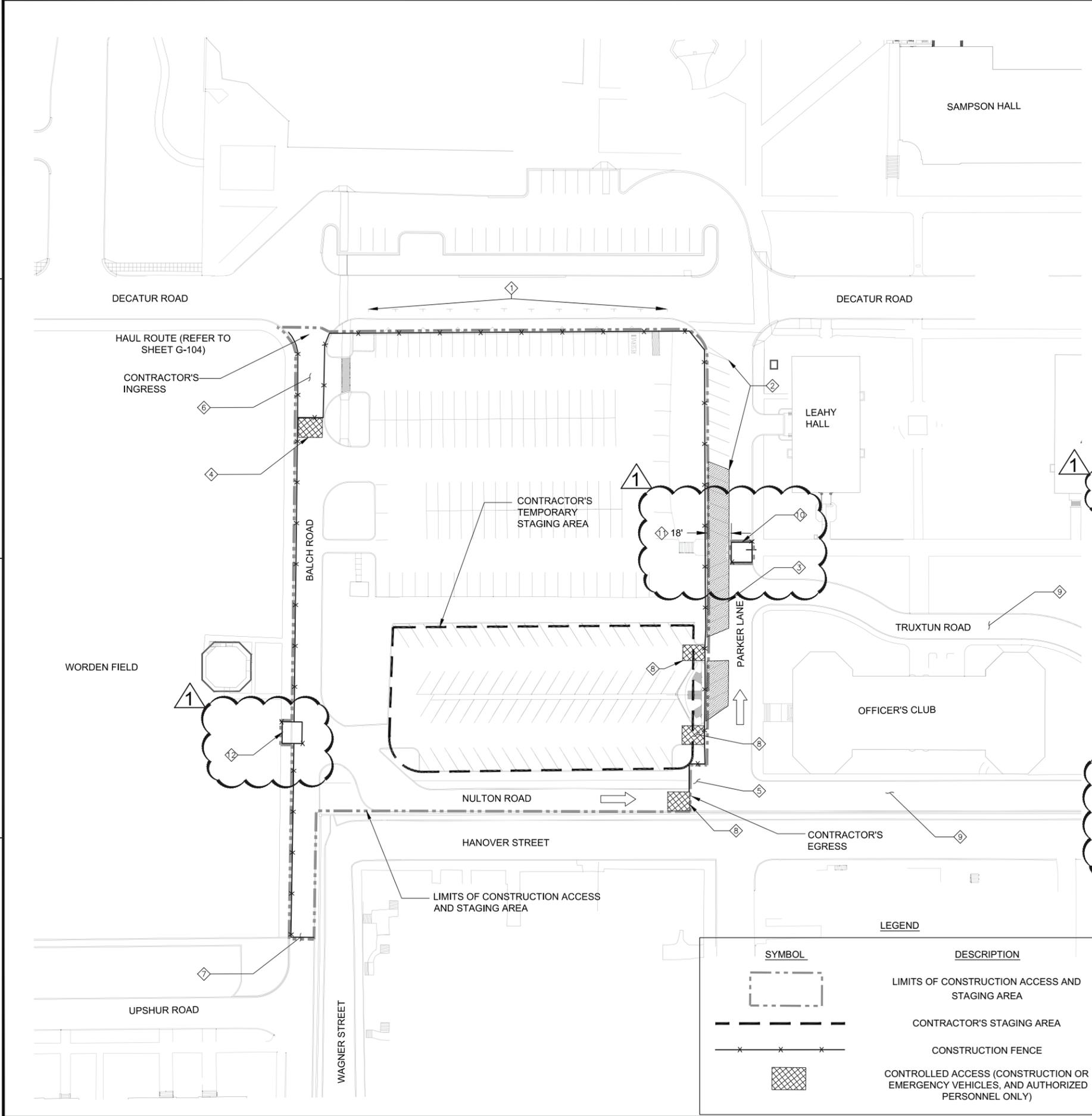


FILE NAME: C:\pwworking\jgho\working\13068314\NAVFAC\_P-621-G-105.dwg LAYOUT NAME: G-105 PLOTTED: Tuesday, February 17, 2015 - 2:51pm USER: rodright



SHEET NOTES:

1. THIS PLAN IS FOR INITIAL CONSTRUCTION ACCESS AND STAGING PURPOSES ONLY. AREAS OF SELECTED DEMOLITION AND LIMITED ACCESS ARE SHOWN ON SHEET G-106.
2. CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN TO THE COR FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH PWD ANNAPOLIS FOR WRITTEN APPROVAL OF THE TEMPORARY CLOSURE OF ANY ROAD, PARKING SPACE, OR SIDEWALK ASSOCIATED WITH THIS PROJECT.
4. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCING AND CONTROLLED ACCESS GATES TO RESTRICT THE UNAUTHORIZED VEHICULAR OR PEDESTRIAN ACCESS TO AREAS OF CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE CLEAR ACCESS TO EMERGENCY VEHICLES ALONG BALCH ROAD, AND NULTON ROAD AT ALL TIMES DURING CONSTRUCTION.
6. NO UTILITY TRENCHES OR STREET EXCAVATED AREAS ARE TO BE UNATTENDED. EXCAVATED PEDESTRIAN OR VEHICULAR TRAFFIC AREAS SHALL BE ADEQUATELY BACKFILLED OR COVERED WITH STEEL PLATES UNTIL WORK IS RESUMED. WHERE STEEL PLATES ARE USED, CONTRACTOR SHALL PROVIDE SIGNS AT THEIR LOCATION(S) SO THEY ARE NOT MOVED OR MISALIGNED BY MAINTENANCE VEHICLES.
7. ACCESS OF CONSTRUCTION VEHICLES AND PERSONNEL SHALL BE ONLY THROUGH GATE 8. REFER TO SHEET G-104 "SITE AND VICINITY MAP" FOR GATE LOCATION.
8. UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL RESTORE ALL EXISTING AREAS, AND FEATURES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION TO ITS ORIGINAL CONDITIONS.
9. IN ADDITION TO THE MINIMUM EROSION AND SEDIMENT CONTROLS PROVIDED IN THIS DEVELOPMENT PLAN, CONTRACTOR SHALL SWEEP ADJACENT DECATUR ROAD AND PARKER LANE AT THE END OF EACH WORKING DAY TO PREVENT THE TRANSPORT OF SEDIMENTS TO DOWNSTREAM AREAS AND AIRBORNE EROSION.

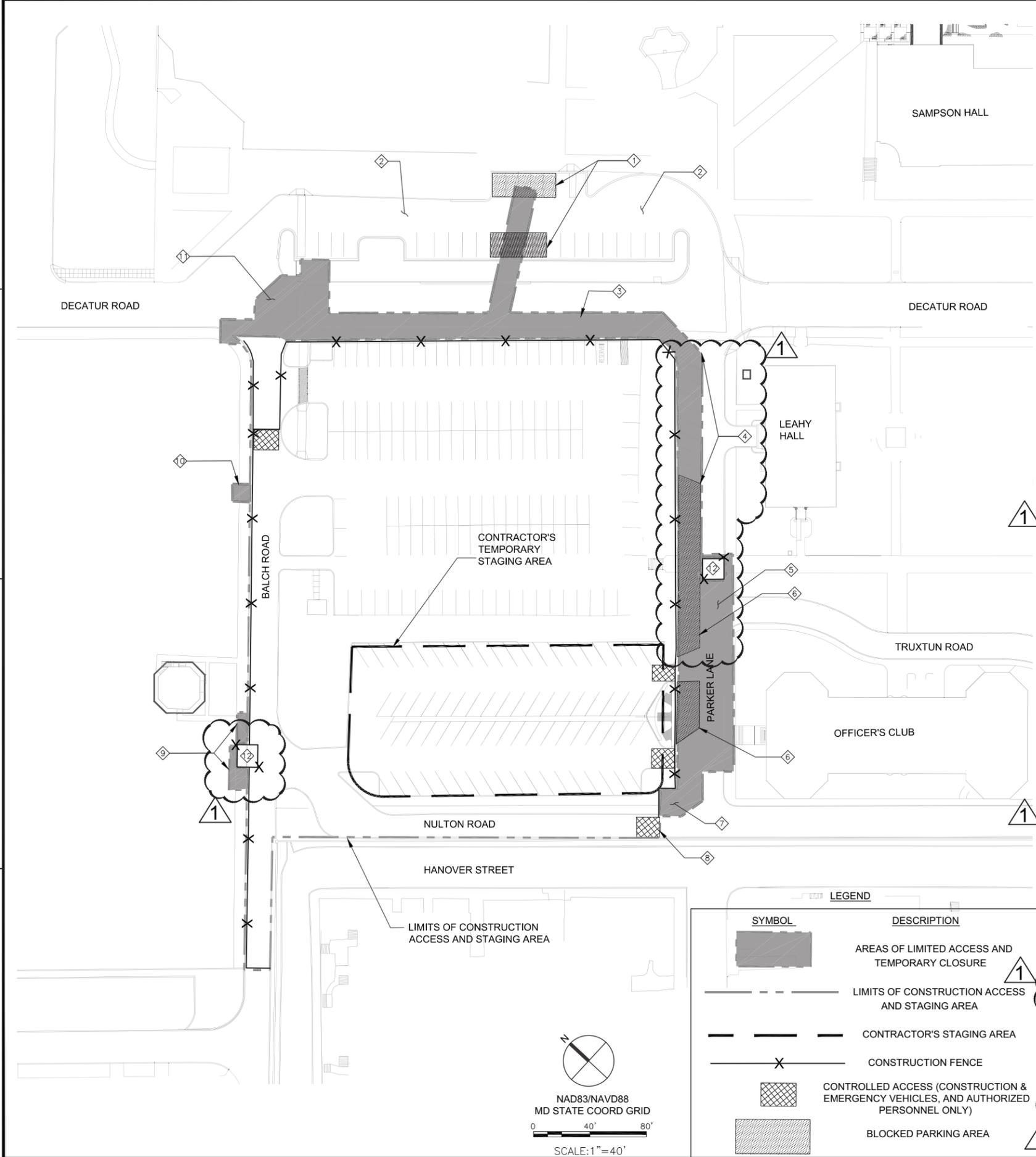
KEY NOTES:

- ① PARKING SPACES AND EXISTING SIDEWALK TO REMAIN ACCESSIBLE DURING CONSTRUCTION
- ② PARKING SPACES TO REMAIN ACCESSIBLE DURING CONSTRUCTION
- ③ CONTRACTOR MAY BLOCK ACCESS TO THIRTEEN PARKING SPACES TO ALLOW EGRESS/INGRESS OF CONSTRUCTION VEHICLES AND PERMIT TRAFFIC WITHOUT CONFLICTING WITH THE CONSTRUCTION FENCE.
- ④ PROVIDE CONTROLLED ACCESS FOR CONSTRUCTION/EMERGENCY VEHICLES AND AUTHORIZED PERSONNEL. ADDITIONALLY, PROVIDE TRAFFIC CONTROLS AND WARNING SIGNS FOR EGRESS/INGRESS OF EMERGENCY VEHICLES.
- ⑤ EXISTING TRASH DUMPSTER AND ASSOCIATED ENCLOSURE SHALL BE KEPT OUTSIDE OF THE CONSTRUCTION FENCE, AND SHALL REMAIN ACCESSIBLE AND OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE UNINTERRUPTED ACCESS TO THIS SERVICE AREA AT ALL TIMES. ONCE THE NEW DUMPSTER AREA IS READY TO BE CONSTRUCTED, THE CONTRACTOR SHALL COORDINATE WITH PWD ANNAPOLIS FOR THE CLOSURE OF NULTON ROAD FOR THE TEMPORARY LOCATION OF THE EXISTING DUMPSTER AND RECYCLING BINS ON THIS STREET UNTIL THE AREA IS READY FOR SERVICE.
- ⑥ CONTRACTOR SHALL ACCOMMODATE A MINIMUM 40 FT. LONG QUEUING LANE WITHIN THE CONSTRUCTION SITE FOR CONSTRUCTION VEHICLES AND DELIVERY.
- ⑦ NO PEDESTRIAN OR VEHICULAR ACCESS IN ANY DIRECTION FROM BALCH ROAD ONTO UPSHUR ROAD OR BOUNDARY ROAD. CONTRACTOR MAY INSTALL GATE FOR EMERGENCY USE ONLY. NO ACCESS OR TRAVEL THROUGH RESIDENTIAL AREA IS PERMITTED.
- ⑧ CONTRACTOR SHALL PROVIDE GATE FOR CONTRACTOR EGRESS AND EMERGENCY USE ONLY. KEEP AREA CLEAR DURING CONSTRUCTION.
- ⑨ CONTRACTOR SHALL NOT USE TRUXTON ROAD OR NULTON ROAD FOR ACCESSING THE SITE.
- ⑩ CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND AREA OF HTHW CONNECTION. PROVIDE ADDITIONAL SAFETY MEASURES TO PROTECT AREA FROM ONCOMING TRAFFIC.
- ⑪ PROVIDE A MINIMUM OF 18' CLEAR BETWEEN THE CONSTRUCTION FENCE AND THE FACE OF CURB TO ALLOW THE PASSAGE OF EMERGENCY AND CONSTRUCTION VEHICLES.
- ⑫ CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND AREA OF HTHW CONNECTION. PROVIDE ADDITIONAL SAFETY MEASURES TO PROTECT AREA FROM ONCOMING TRAFFIC.

SYMBOL	DESCRIPTION
	LIMITS OF CONSTRUCTION ACCESS AND STAGING AREA
	CONTRACTOR'S STAGING AREA
	CONSTRUCTION FENCE
	CONTROLLED ACCESS (CONSTRUCTION OR EMERGENCY VEHICLES, AND AUTHORIZED PERSONNEL ONLY)

DATE 02/17/15	APPR
HTHW CONNECT. FENCE AREA	DATE
SW	DESCRIPTION
 DEC. 12, 2014 SEAL <small>I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 3889, EXPIRATION DATE: 11/30/2018</small> <b>JACOBS</b> 1100 NORTH GLEBE ROAD SUITE 500 ARLINGTON, VIRGINIA 22201 571.218.1000 FAX: 571.218.1600 A/E INFO	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
N61152-NSA ANNAPOLIS	
SATISFACTORY TO DATE 10/28/2014	
DES	HR
DRW	HR
CHK	RC
<<PM/DM>> AD/IC	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<ODD>>	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND US NAVAL ACADEMY - ANNAPOLIS, MD ANNAPOLIS, MD US NAVAL ACADEMY <b>P-621 CENTER FOR CYBER SECURITY STUDIES</b> <b>PARKING GARAGE</b> CONSTRUCTION ACCESS & STAGING PLAN	SCALE: AS NOTED EPROJCT NO.: 1371895 CONSTR. CONTR. NO. NAVFAC DRAWING NO. <b>13068314</b> SHEET 05 OF 119 <b>G-105</b> <small>DRAWFORM REVISION: 10 MARCH 2009</small>

FILE NAME: C:\pwworking\gho\cadd\gho\NAVFAC\_P-621-G-106.dwg LAYOUT NAME: G-106 PLOTTED: Tuesday, February 17, 2015 - 5:02pm USER: rodright



**SHEET NOTES:**

- THIS PLAN DEPICTS CONSTRUCTION WORK WITHIN AREAS OF LIMITED ACCESS IN WHICH ONLY TEMPORARY CLOSURE IS ALLOWED. THIS SHEET ALONG WITH SHEET G-105 REPRESENT THE MAXIMUM EXTENT FOR CONSTRUCTION ACCESS AND STAGING AREAS. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM PWD ANNAPOLIS IN THE EVENT ADDITIONAL AREA(S) OR ADDITIONAL TIME OF ROAD CLOSURE AND PEDESTRIAN IS REQUIRED BEYOND WHAT IS INITIALLY APPROVED BY PWD.
- CONTRACTOR SHALL PROVIDE NOTIFICATION TO PWD 21 CALENDAR DAYS IN ADVANCE FOR ANY TEMPORARY CLOSURE OF THE AREAS AND STREETS SHOWN ON THIS SHEET. CONTRACTOR SHALL INCLUDE IN THE NOTIFICATION TO PWD THE ANTICIPATED DURATION OF THE PEDESTRIAN, PARKING AREA, OR STREET CLOSURE.
- CONTRACTOR SHALL PERFORM WORK IN AREAS OF LIMITED ACCESS DURING HOURS OF MINIMUM TRAFFIC AND WHEN MINIMUM PEDESTRIAN CIRCULATION IS EXPECTED.
- COMPLETE CLOSURE OF DECATUR ROAD IS NOT PERMITTED. CONTRACTOR SHALL PROVIDE FLAGGERS NECESSARY TO DIRECT TRAFFIC DURING THE TEMPORARY CLOSURE OF EACH ROAD LANE. CONTRACTOR SHALL NOT CLOSE DECATUR ROAD, AND THE ALUMNI LOT DRIVEWAY SIMULTANEOUSLY. CONTRACTOR MAY USE THE ALUMNI LOT DRIVEWAY AS ALTERNATIVE ROUTE IN THE EVENT OF DECATUR ROAD CLOSURE.
- COMPLETE CLOSURE OF THE PARKING LOT AND ASSOCIATED DRIVEWAY SERVICING ALUMNI HALL IS NOT PERMITTED. CONTRACTOR SHALL NOTIFY PWD OF THE TEMPORARY BLOCKING OF THE PARKING SPACES AND THE TIME REQUIRED TO FULLY COMPLETE THE STORM SEWER CONNECTION AND THE RESTORATION OF THE ASSOCIATED DISTURBED AREAS. THE SMALL PARKING LOT ADJACENT TO THE ALUMNI HALL BUILDING SHALL NOT BE AN ACCESSIBLE AREA TO CONSTRUCTION VEHICLES.
- CONTRACTOR MAY TEMPORARILY CLOSE PARKER LANE (BETWEEN NULTON ROAD, AND TRUXTON ROAD) IN BOTH DIRECTIONS FOR THE CONSTRUCTION OF THE HIGH TEMPERATURE HOT WATER LINES AND THEIR ASSOCIATED CONNECTIONS. CONTRACTOR SHALL PROVIDE EARLY NOTIFICATION TO PWD AS SPECIFIED IN ITEM 2 OF THESE NOTES SO IMPACT TO DELIVERIES AND TRASH COLLECTION SERVICES TO THE OFFICER'S CLUB BUILDING ARE MINIMIZED.
- CONTRACTOR MAY TEMPORARILY CLOSE THE SEGMENTS OF SIDEWALK BETWEEN BALCH ROAD AND THE WORDEN FIELD WHERE CONSTRUCTION WILL TAKE PLACE. CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNS TO WARN PEDESTRIAN OF THE WALKWAY SEGMENT CLOSURE.
- CONTRACTOR MAY TEMPORARILY BLOCK PARKING AREAS ALONG PARKER LANE TO ALLOW FOR THE CONSTRUCTION OF SIDEWALKS, CURBS, PAVEMENT CONSTRUCTION AND RESTORATION, PAVEMENT MARKING, AND STRIPING.
- CONTRACTOR SHALL PHASE THE CONSTRUCTION OF THE DUMPSTER AREA AND ASSOCIATED ENCLOSURE TOWARDS THE END OF CONSTRUCTION.
- CONSTRUCTION OUTAGES WITHIN AREAS OF LIMITED ACCESS SHALL NOT OCCUR UNTIL ALL NECESSARY MATERIALS AND EQUIPMENT ARE ON SITE AND READY FOR CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC ON PARKER LANE AFTER TEMPORARY PIPING BYPASS AND CONSTRUCTION FENCE ARE IN PLACE, UNTIL SUCH TIME THAT THE TEMPORARY PIPING BYPASS AND CONSTRUCTION FENCE ARE REMOVED.

**KEY NOTES:**

- TEMPORARILY BLOCK 9 PARKING SPACES TO ALLOW CONSTRUCTION OF STORM SEWER CONNECTION.
- DRIVEWAY AND PARKING SPACES ADJACENT THE CONSTRUCTION AREA ASSOCIATED WITH THE INSTALLATION OF THE STORM SEWER LINE SHALL BE ACCESSIBLE FOR TRAFFIC AT ALL TIMES. CONTRACTOR MAY USE FLAGGERS AND WARNING SIGNS AS NEEDED TO ROUTE THE TRAFFIC WHILE CONSTRUCTION TAKES PLACE.
- CONTRACTOR MAY TEMPORARILY BLOCK PARKING SPACES ONLY TO ALLOW FOR CONSTRUCTION OF THE SIDEWALK AND PAVEMENT MARKING ADJACENT TO DECATUR ROAD
- CONTRACTOR MAY TEMPORARILY BLOCK PARKING SPACES ONLY TO ALLOW FOR CONSTRUCTION OF THE SIDEWALK AND PAVEMENT MARKING ADJACENT TO PARKER LANE
- CONTRACTOR MAY TEMPORARILY CLOSE PARKER LANE IN BOTH DIRECTIONS TO ALLOW FOR CONSTRUCTION AND RE-CONNECTION OF THE HIGH TEMPERATURE HOT WATER LINES. CLOSURE OF TRUXTON ROAD AT ITS INTERSECTION WITH PARKER LANE SHALL BE KEPT TO ITS ABSOLUTE MINIMUM TO REDUCE ANY IMPACT ON THE OFFICER'S CLUB OPERATIONS AND TRAFFIC CONGESTION.
- CONTRACTOR MAY BLOCK ACCESS TO THIRTEEN PARKING SPACES TO ALLOW EGRESS/INGRESS OF CONSTRUCTION VEHICLES AND PERMIT TRAFFIC WITHOUT CONFLICTING WITH THE CONSTRUCTION FENCE.
- CONTRACTOR SHALL PROCEED WITH THE CONSTRUCTION OF THE DUMPSTER AREA ONCE THE SURFACE PARKING AREA AND DRIVEWAY ARE CONSTRUCTED TO ALLOW TRAFFIC FLOW BETWEEN BALCH ROAD AND PARKER LANE. THE CONTRACTOR MAY CLOSE NULTON ROAD AND TEMPORARILY RELOCATE THE RECYCLING, SOLID WASTE DISPOSAL BINS, AND GREASE DISPOSAL CONTAINER TO THIS STREET TO FACILITATE THE SOLID/GREASE WASTE PICKUP OPERATIONS DURING CONSTRUCTION. UPON COMPLETION OF THE NEW DUMPSTER ENCLOSURE, CONTRACTOR MAY RESTORE THE BINS AND GREASE DISPOSAL CONTAINER TO THE NEW DUMPSTER AREA, AND REOPEN NULTON ROAD. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE COR ON THE SOLID WASTE COLLECTION SERVICES RELOCATION OR REPLACEMENT OF THE SOLID WASTE STORAGE BINS AND GREASE DISPOSAL UNIT.
- CONTRACTOR SHALL REMOVE THE CONSTRUCTION ACCESS GATE PRIOR TO STARTING CONSTRUCTION OF THE NEW DUMPSTER ENCLOSURE.
- CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN ACCESS AROUND THE CONSTRUCTION FENCE TO ALLOW FOR CONSTRUCTION OF THE HIGH TEMPERATURE HOT WATER LINES.
- CONTRACTOR MAY TEMPORARILY CLOSE SEGMENT OF EXISTING SIDEWALK TO ALLOW FOR INSTALLATION OF THE NEW FIRE HYDRANT
- CONTRACTOR MAY PARTIALLY BLOCK DECATUR ROAD TO ALLOW FOR CONSTRUCTION OF UTILITIES AND ASSOCIATED CONNECTIONS. FULL CLOSURE OF DECATUR ROAD IS NOT PERMITTED. CONTRACTOR SHALL PHASE THE CONSTRUCTION OF THE UTILITIES TO ALLOW AT A MINIMUM ONE LANE OF TRAFFIC.
- REFER TO SHEET G-105 FOR NOTES REGARDING FENCING AROUND HTHW CONNECTION AREA. THESE AREAS WILL REMAIN FENCED UNTIL THE CONSTRUCTION OF THE HTHW IS COMPLETED.

DATE	02/17/15
DESCRIPTION	HTHW CONNECTION FENCE AREA
DATE	02/17/15
DESCRIPTION	HTHW CONNECTION FENCE AREA
DATE	02/17/15
DESCRIPTION	HTHW CONNECTION FENCE AREA

DEC. 12, 2014 SEAL

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 3889, EXPIRATION DATE: 11/30/2018

**JACOBS**  
1100 NORTH GLEBE ROAD  
SUITE 500  
ARLINGTON, VIRGINIA 22201  
571.218.1000  
FAX: 571.218.1600

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

N61152-NSA ANNAPOLIS

SATISFACTORY TO DATE 10/28/2014

DES	HR	DRW	HR	CHK	RC
<<PM/DM>>					AD/IC

BRANCH MANAGER

CHIEF ENG/ARCH

<<DD>>

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
US NAVAL ACADEMY - ANNAPOLIS, MD

US NAVAL ACADEMY  
ANNAPOLIS, MD

**P-621 CENTER FOR CYBER SECURITY STUDIES  
PARKING GARAGE**

CONSTRUCTION ACCESS & STAGING PLAN

SCALE: AS NOTED  
PROJECT NO.: 1371895  
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 13068315  
SHEET 06 OF 119

**G-106**

DRAWING REVISION: 10 MARCH 2009

GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT COMPLIANCE PROGRAM AT 410-537-3510 A MINIMUM OF SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY LAND DISTURBING ACTIVITY. CLEAR AND GRUB ONLY THOSE AREAS NECESSARY TO INSTALL THE SEDIMENT CONTROL MEASURES AS THEY ARE SEQUENCED.
2. ALL AREAS THAT DO NOT DRAIN TO AN MDE APPROVED E&S DEVICE SHALL BE STABILIZED AT THE END OF EACH DAY'S CONSTRUCTION.
3. THE LOCATION OF CONTRACTOR LAYDOWN AREAS AND STOCKPILE AREAS SHALL BE DETERMINED BY THE CONTRACTOR AND WILL BE COORDINATED WITH THE MDE INSPECTOR AT THE PRE-CONSTRUCTION MEETING. THESE AREAS WILL FALL WITHIN THE LIMITS OF DISTURBANCE OF THIS PROJECT.
...
18. REFER TO NOTES 6 AND 9 ON SHEET CG-105 AND NOTES 1 AND 4 ON SHEET CG-106 FOR WORK ON TEMPORARY CLOSURE AREAS, UTILITY TRENCH EXCAVATION, & SEDIMENT CLEANUP ON ADJACENT STREETS TO THE PARKING GARAGE STRUCTURE.

STANDARD EROSION AND SEDIMENT CONTROL NOTES

THE WATER MANAGEMENT ADMINISTRATION REQUIRES THAT THESE NOTES, IN THEIR ENTIRETY, BE INCLUDED ON THE EROSION AND SEDIMENT CONTROL PLAN. IT IS RECOGNIZED THAT EVERY NOTE MAY NOT APPLY TO ALL PROJECTS. THE REQUIREMENT OF ANY INDIVIDUAL NOTE NOT APPLICABLE TO THE SUBJECT PROJECT IS NOT BINDING UPON THE APPLICANT OR THE APPLICANT'S CONTRACTOR.

- 1. THE CONTRACTOR SHALL NOTIFY THE ADMINISTRATION (WMA) AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE ADMINISTRATION, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE OF WMA.
2. THE CONTRACTOR MUST NOTIFY WMA IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:
A. THE REQUIRED PRE-CONSTRUCTION MEETING.
B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
C. DURING THE INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
F. PRIOR TO FINAL ACCEPTANCE.

- 19. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OR BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE TRAP OR BASIN BOTTOM TO THE CREST OF THE OUTLET.
20. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.
21. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH A WMA APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.
...
27. SITE INFORMATION:
A. TOTAL AREA OF FACILITY : 2.7241 ACRES
B. AREA DISTURBED : 2.678 ACRES
C. AREA TO BE ROOFED OR PAVED : 1.95 ACRES
D. TOTAL CUT : 4000 CUBIC YARDS
E. TOTAL FILL : 3500 CUBIC YARDS
F. OFF-SITE WASTE / BORROW AREA LOCATION : 3500 CUBIC YARDS (TO BE DETERMINED BY CONTRACTOR.)

NOTE TO CONTRACTOR:

- 1. EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.

Vertical sidebar containing project information: DEPARTMENT OF THE NAVY, NAVAL FACILITIES ENGINEERING COMMAND, US NAVAL ACADEMY, ANAPOLIS, MD, P-621 CENTER FOR CYBER SECURITY STUDIES, PARKING GARAGE, EROSION AND SEDIMENT CONTROL NOTES. Includes logos for NAFAC and JACOBS, and a revision table.

D

C

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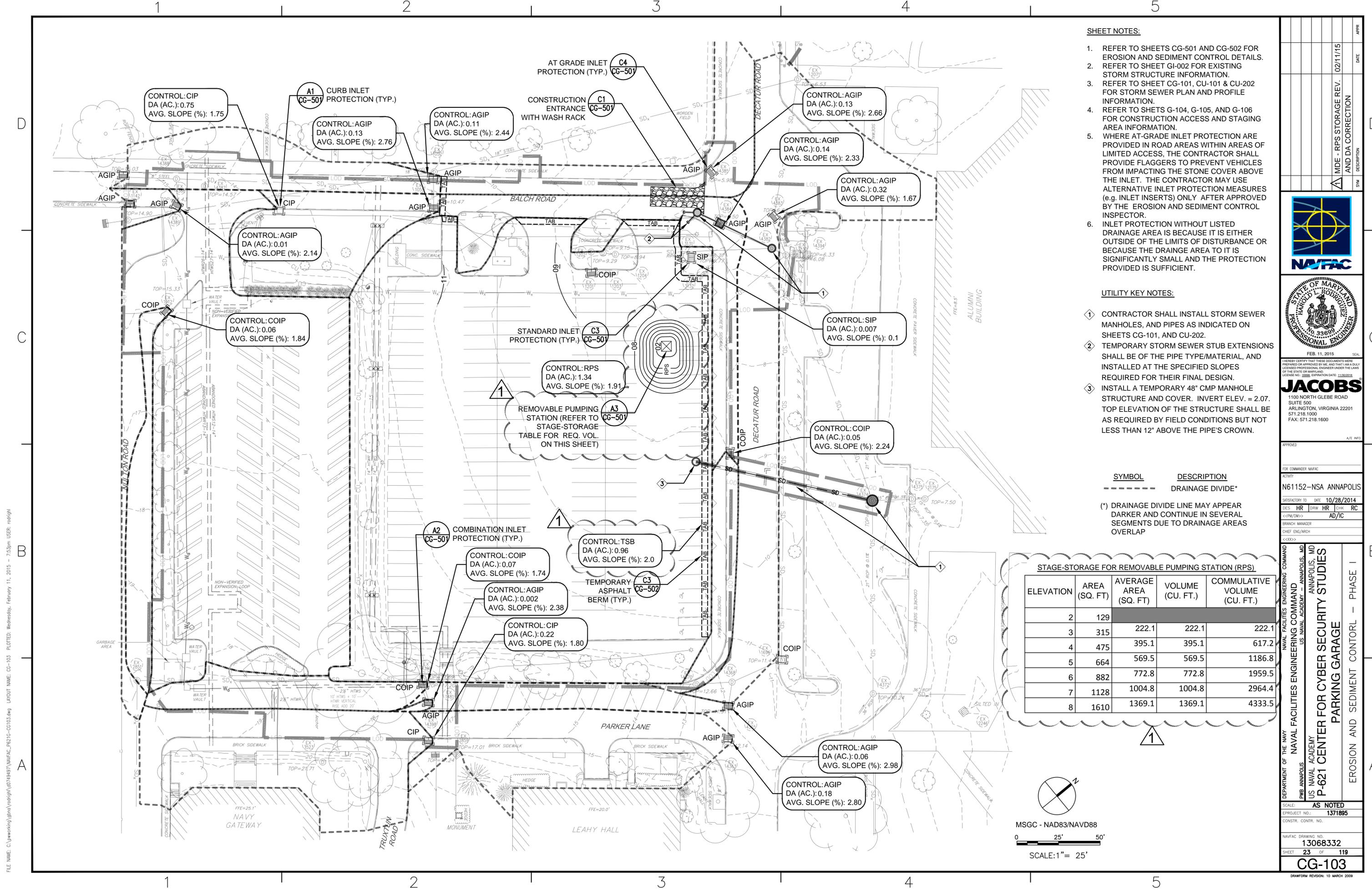
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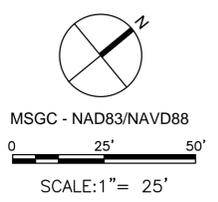
- SHEET NOTES:**
- REFER TO SHEETS CG-501 AND CG-502 FOR EROSION AND SEDIMENT CONTROL DETAILS.
  - REFER TO SHEET GI-002 FOR EXISTING STORM STRUCTURE INFORMATION.
  - REFER TO SHEET CG-101, CU-101 & CU-202 FOR STORM SEWER PLAN AND PROFILE INFORMATION.
  - REFER TO SHEETS G-104, G-105, AND G-106 FOR CONSTRUCTION ACCESS AND STAGING AREA INFORMATION.
  - WHERE AT-GRADE INLET PROTECTION ARE PROVIDED IN ROAD AREAS WITHIN AREAS OF LIMITED ACCESS, THE CONTRACTOR SHALL PROVIDE FLAGGERS TO PREVENT VEHICLES FROM IMPACTING THE STONE COVER ABOVE THE INLET. THE CONTRACTOR MAY USE ALTERNATIVE INLET PROTECTION MEASURES (e.g. INLET INSERTS) ONLY AFTER APPROVED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
  - INLET PROTECTION WITHOUT LISTED DRAINAGE AREA IS BECAUSE IT IS EITHER OUTSIDE OF THE LIMITS OF DISTURBANCE OR BECAUSE THE DRAINAGE AREA TO IT IS SIGNIFICANTLY SMALL AND THE PROTECTION PROVIDED IS SUFFICIENT.

- UTILITY KEY NOTES:**
- CONTRACTOR SHALL INSTALL STORM SEWER MANHOLES, AND PIPES AS INDICATED ON SHEETS CG-101, AND CU-202.
  - TEMPORARY STORM SEWER STUB EXTENSIONS SHALL BE OF THE PIPE TYPE/MATERIAL, AND INSTALLED AT THE SPECIFIED SLOPES REQUIRED FOR THEIR FINAL DESIGN.
  - INSTALL A TEMPORARY 48" CMP MANHOLE STRUCTURE AND COVER. INVERT ELEV. = 2.07. TOP ELEVATION OF THE STRUCTURE SHALL BE AS REQUIRED BY FIELD CONDITIONS BUT NOT LESS THAN 12" ABOVE THE PIPE'S CROWN.

**SYMBOL DESCRIPTION**  
 --- DRAINAGE DIVIDE\*  
 (\*) DRAINAGE DIVIDE LINE MAY APPEAR DARKER AND CONTINUE IN SEVERAL SEGMENTS DUE TO DRAINAGE AREAS OVERLAP

**STAGE-STORAGE FOR REMOVABLE PUMPING STATION (RPS)**

ELEVATION	AREA (SQ. FT)	AVERAGE AREA (SQ. FT)	VOLUME (CU. FT.)	COMMULATIVE VOLUME (CU. FT.)
2	129			
3	315	222.1	222.1	222.1
4	475	395.1	395.1	617.2
5	664	569.5	569.5	1186.8
6	882	772.8	772.8	1959.5
7	1128	1004.8	1004.8	2964.4
8	1610	1369.1	1369.1	4333.5



DATE: 02/11/15  
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 APPR: [Signature]  
 DATE: [Signature]  
 DATE: [Signature]

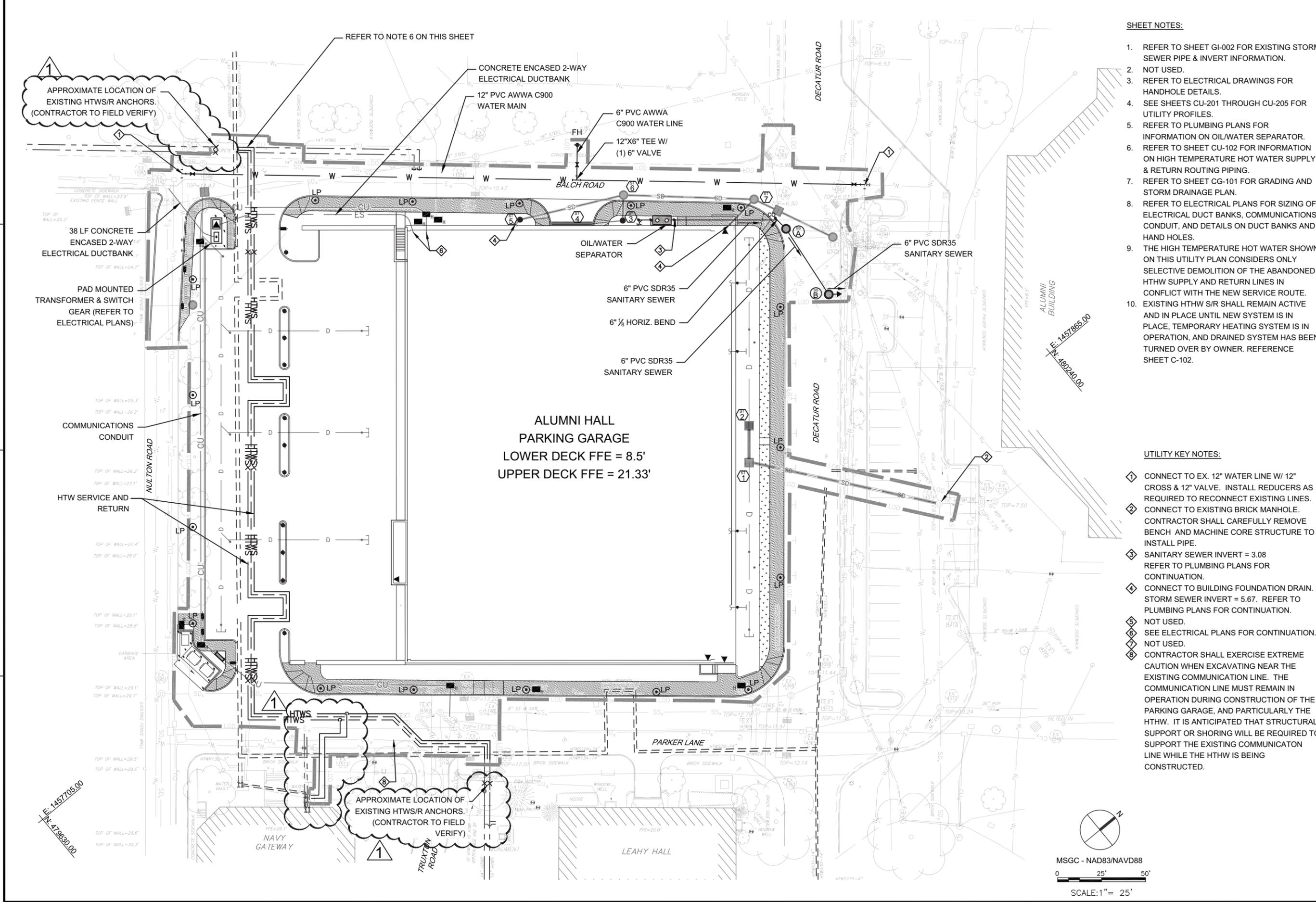
**JACOBS**  
 1100 NORTH GLEBE ROAD  
 SUITE 500  
 ARLINGTON, VIRGINIA 22201  
 571.218.1000  
 FAX: 571.218.1600

APPROVED: [Signature]  
 FOR COMMANDER: NAVAAC  
 ACTIVITY: N61152-NSA ANNAPOLIS  
 SATISFACTORY TO DATE: 10/28/2014  
 DES: HR | DRW: HR | CHK: RC  
 BRANCH MANAGER: AD/IC  
 CHIEF ENG/ARCH: [Signature]  
 DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND  
 US NAVAL ACADEMY - ANNAPOLIS, MD  
 US NAVAL ACADEMY - ANNAPOLIS, MD  
**P-621 CENTER FOR CYBER SECURITY STUDIES**  
**PARKING GARAGE**  
 EROSION AND SEDIMENT CONTROL - PHASE I

SCALE: AS NOTED  
 EPROJECT NO.: 1371895  
 CONSTR. CONTR. NO.:  
 NAVFAC DRAWING NO.: 13068332  
 SHEET 23 OF 119  
**CG-103**  
 DRAWING REVISION: 10 MARCH 2009

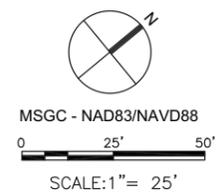
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FILE NAME: C:\working\jgms\working\071497\NAFAC\_P621G-CU101.dwg LAYOUT NAME: CU-101 PLOTTED: Tuesday, February 17, 2015 - 5:58pm USER: rodrigh



- SHEET NOTES:**
- REFER TO SHEET GI-002 FOR EXISTING STORM SEWER PIPE & INVERT INFORMATION.
  - NOT USED.
  - REFER TO ELECTRICAL DRAWINGS FOR HANDHOLE DETAILS.
  - SEE SHEETS CU-201 THROUGH CU-205 FOR UTILITY PROFILES.
  - REFER TO PLUMBING PLANS FOR INFORMATION ON OIL/WATER SEPARATOR.
  - REFER TO SHEET CU-102 FOR INFORMATION ON HIGH TEMPERATURE HOT WATER SUPPLY & RETURN ROUTING PIPING.
  - REFER TO SHEET CG-101 FOR GRADING AND STORM DRAINAGE PLAN.
  - REFER TO ELECTRICAL PLANS FOR SIZING OF ELECTRICAL DUCT BANKS, COMMUNICATIONS CONDUIT, AND DETAILS ON DUCT BANKS AND HAND HOLES.
  - THE HIGH TEMPERATURE HOT WATER SHOWN ON THIS UTILITY PLAN CONSIDERS ONLY SELECTIVE DEMOLITION OF THE ABANDONED HTHW SUPPLY AND RETURN LINES IN CONFLICT WITH THE NEW SERVICE ROUTE. EXISTING HTHW S/R SHALL REMAIN ACTIVE AND IN PLACE UNTIL NEW SYSTEM IS IN OPERATION, AND DRAINED SYSTEM HAS BEEN TURNED OVER BY OWNER. REFERENCE SHEET C-102.

- UTILITY KEY NOTES:**
- ① CONNECT TO EX. 12" WATER LINE W/ 12" CROSS & 12" VALVE. INSTALL REDUCERS AS REQUIRED TO RECONNECT EXISTING LINES.
  - ② CONNECT TO EXISTING BRICK MANHOLE. CONTRACTOR SHALL CAREFULLY REMOVE BENCH AND MACHINE CORE STRUCTURE TO INSTALL PIPE.
  - ③ SANITARY SEWER INVERT = 3.08 REFER TO PLUMBING PLANS FOR CONTINUATION.
  - ④ CONNECT TO BUILDING FOUNDATION DRAIN. STORM SEWER INVERT = 5.67. REFER TO PLUMBING PLANS FOR CONTINUATION.
  - ⑤ NOT USED.
  - ⑥ SEE ELECTRICAL PLANS FOR CONTINUATION. NOT USED.
  - ⑦ CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING NEAR THE EXISTING COMMUNICATION LINE. THE COMMUNICATION LINE MUST REMAIN IN OPERATION DURING CONSTRUCTION OF THE PARKING GARAGE, AND PARTICULARLY THE HTHW. IT IS ANTICIPATED THAT STRUCTURAL SUPPORT OR SHORING WILL BE REQUIRED TO SUPPORT THE EXISTING COMMUNICATION LINE WHILE THE HTHW IS BEING CONSTRUCTED.



DATE	02/17/15
DESCRIPTION	REV. NOTE TO REQ. FIELD VERIFICATION & LAT. REALIGN.
SYN	
APPR	

DEC. 12, 2014 SEAL

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 38888 EXPIRATION DATE: 11/03/2018

**JACOBS**

1100 NORTH GLEBE ROAD  
SUITE 500  
ARLINGTON, VIRGINIA 22201  
571.218.1000  
FAX: 571.218.1600

A/E NO.

APPROVED

FOR COMMANDER NAFAC

ACTIVITY

N61152-NSA ANNAPOLIS

SATISFACTORY TO DATE 10/28/2014

DES	HR	DRW	HR	CHK	RC
<<PM/DM>>					AD/IC

BRANCH MANAGER

CHEF ENG/ARCH

<<CD>>

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND

NAVAL FACILITIES ENGINEERING COMMAND

US NAVAL ACADEMY - ANNAPOLIS, MD

US NAVAL ACADEMY - ANNAPOLIS, MD

**P-621 CENTER FOR CYBER SECURITY STUDIES**

**PARKING GARAGE**

UTILITY PLAN

SCALE: AS NOTED

EPROJCT NO.: 1371895

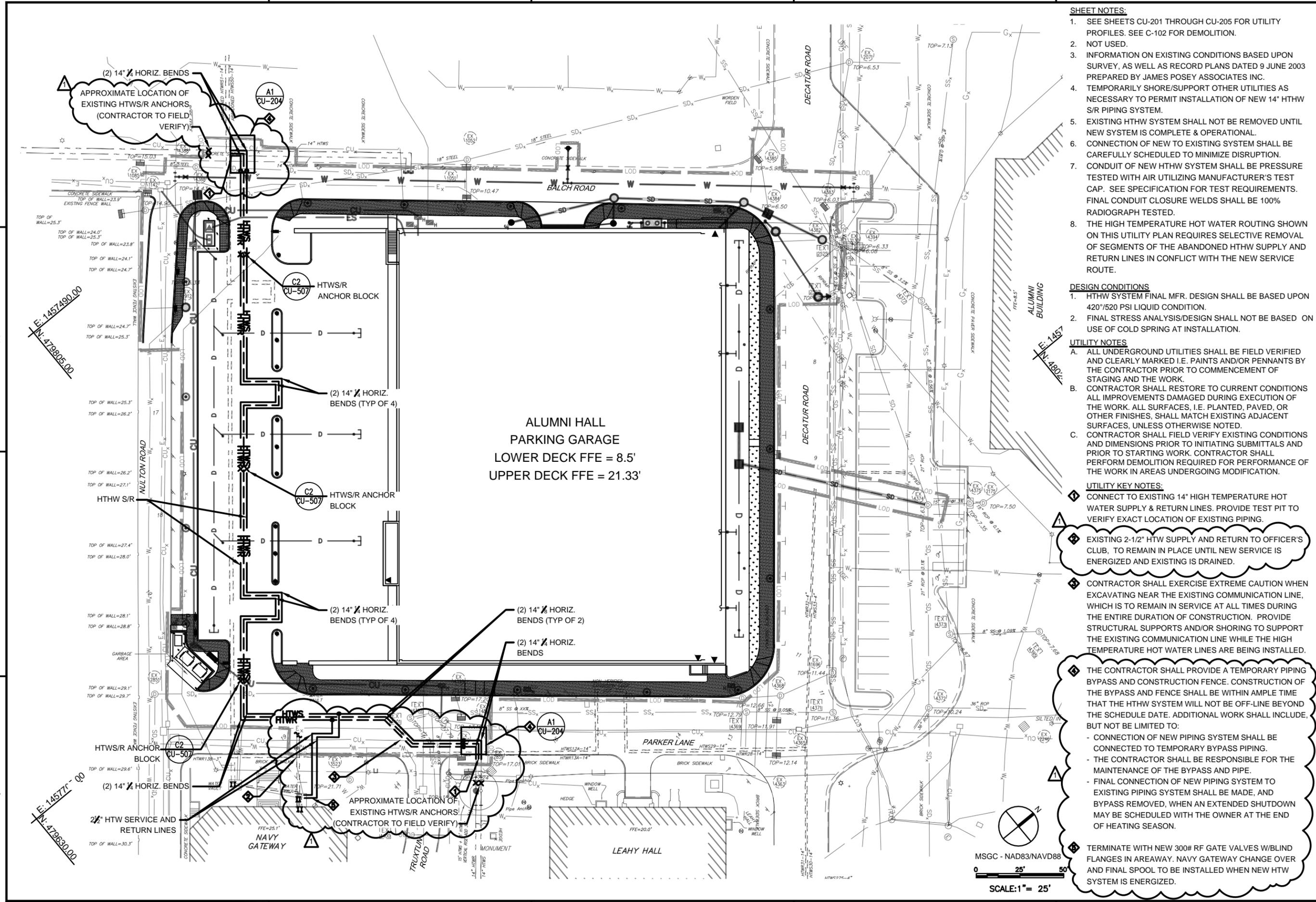
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 13068337

SHEET 28 OF 119

**CU-101**

DRAWING REVISION: 10 MARCH 2009

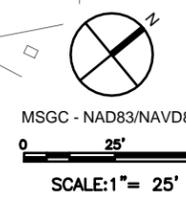


- SHEET NOTES:**
- SEE SHEETS CU-201 THROUGH CU-205 FOR UTILITY PROFILES. SEE C-102 FOR DEMOLITION.
  - NOT USED.
  - INFORMATION ON EXISTING CONDITIONS BASED UPON SURVEY, AS WELL AS RECORD PLANS DATED 9 JUNE 2003 PREPARED BY JAMES POSEY ASSOCIATES INC.
  - TEMPORARILY SHORE/SUPPORT OTHER UTILITIES AS NECESSARY TO PERMIT INSTALLATION OF NEW 14" HTHW S/R PIPING SYSTEM.
  - EXISTING HTHW SYSTEM SHALL NOT BE REMOVED UNTIL NEW SYSTEM IS COMPLETE & OPERATIONAL.
  - CONNECTION OF NEW TO EXISTING SYSTEM SHALL BE CAREFULLY SCHEDULED TO MINIMIZE DISRUPTION.
  - CONDUIT OF NEW HTHW SYSTEM SHALL BE PRESSURE TESTED WITH AIR UTILIZING MANUFACTURER'S TEST CAP. SEE SPECIFICATION FOR TEST REQUIREMENTS. FINAL CONDUIT CLOSURE WELDS SHALL BE 100% RADIOGRAPH TESTED.
  - THE HIGH TEMPERATURE HOT WATER ROUTING SHOWN ON THIS UTILITY PLAN REQUIRES SELECTIVE REMOVAL OF SEGMENTS OF THE ABANDONED HTHW SUPPLY AND RETURN LINES IN CONFLICT WITH THE NEW SERVICE ROUTE.

- DESIGN CONDITIONS**
- HTHW SYSTEM FINAL MFR. DESIGN SHALL BE BASED UPON 420"/520 PSI LIQUID CONDITION.
  - FINAL STRESS ANALYSIS/DESIGN SHALL NOT BE BASED ON USE OF COLD SPRING AT INSTALLATION.

- UTILITY NOTES**
- ALL UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED AND CLEARLY MARKED I.E. PAINTS AND/OR PENNANTS BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF STAGING AND THE WORK.
  - CONTRACTOR SHALL RESTORE TO CURRENT CONDITIONS ALL IMPROVEMENTS DAMAGED DURING EXECUTION OF THE WORK. ALL SURFACES, I.E. PLANTED, PAVED, OR OTHER FINISHES, SHALL MATCH EXISTING ADJACENT SURFACES, UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO INITIATING SUBMITTALS AND PRIOR TO STARTING WORK. CONTRACTOR SHALL PERFORM DEMOLITION REQUIRED FOR PERFORMANCE OF THE WORK IN AREAS UNDERGOING MODIFICATION.

- UTILITY KEY NOTES:**
- CONNECT TO EXISTING 14" HIGH TEMPERATURE HOT WATER SUPPLY & RETURN LINES. PROVIDE TEST PIT TO VERIFY EXACT LOCATION OF EXISTING PIPING.
  - EXISTING 2-1/2" HTW SUPPLY AND RETURN TO OFFICER'S CLUB, TO REMAIN IN PLACE UNTIL NEW SERVICE IS ENERGIZED AND EXISTING IS DRAINED.
  - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING NEAR THE EXISTING COMMUNICATION LINE, WHICH IS TO REMAIN IN SERVICE AT ALL TIMES DURING THE ENTIRE DURATION OF CONSTRUCTION. PROVIDE STRUCTURAL SUPPORTS AND/OR SHORING TO SUPPORT THE EXISTING COMMUNICATION LINE WHILE THE HIGH TEMPERATURE HOT WATER LINES ARE BEING INSTALLED.
  - THE CONTRACTOR SHALL PROVIDE A TEMPORARY PIPING BYPASS AND CONSTRUCTION FENCE. CONSTRUCTION OF THE BYPASS AND FENCE SHALL BE WITHIN AMPLE TIME THAT THE HTHW SYSTEM WILL NOT BE OFF-LINE BEYOND THE SCHEDULE DATE. ADDITIONAL WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:
    - CONNECTION OF NEW PIPING SYSTEM SHALL BE CONNECTED TO TEMPORARY BYPASS PIPING.
    - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BYPASS AND PIPE.
    - FINAL CONNECTION OF NEW PIPING SYSTEM TO EXISTING PIPING SYSTEM SHALL BE MADE, AND BYPASS REMOVED, WHEN AN EXTENDED SHUTDOWN MAY BE SCHEDULED WITH THE OWNER AT THE END OF HEATING SEASON.
  - TERMINATE WITH NEW 300# RF GATE VALVES W/BLIND FLANGES IN AREAWAY. NAVY GATEWAY CHANGE OVER AND FINAL SPOOL TO BE INSTALLED WHEN NEW HTW SYSTEM IS ENERGIZED.



DATE	02/17/15
DESCRIPTION	BYPASS MODIFICATIONS
SYN	

**JACOBS**  
1100 NORTH GLEBE ROAD  
SUITE 500  
ARLINGTON, VIRGINIA 22201  
571.218.1000  
FAX: 571.218.1600

APPROVED FOR COMMANDER NAVFAC

ACTIVITY: N61152-NSA ANNAPOLIS

SATISFACTORY TO DATE: 10/26/2014

DES: RU | DRW: CR | CHK: RC

BRANCH MANAGER: AD/IC

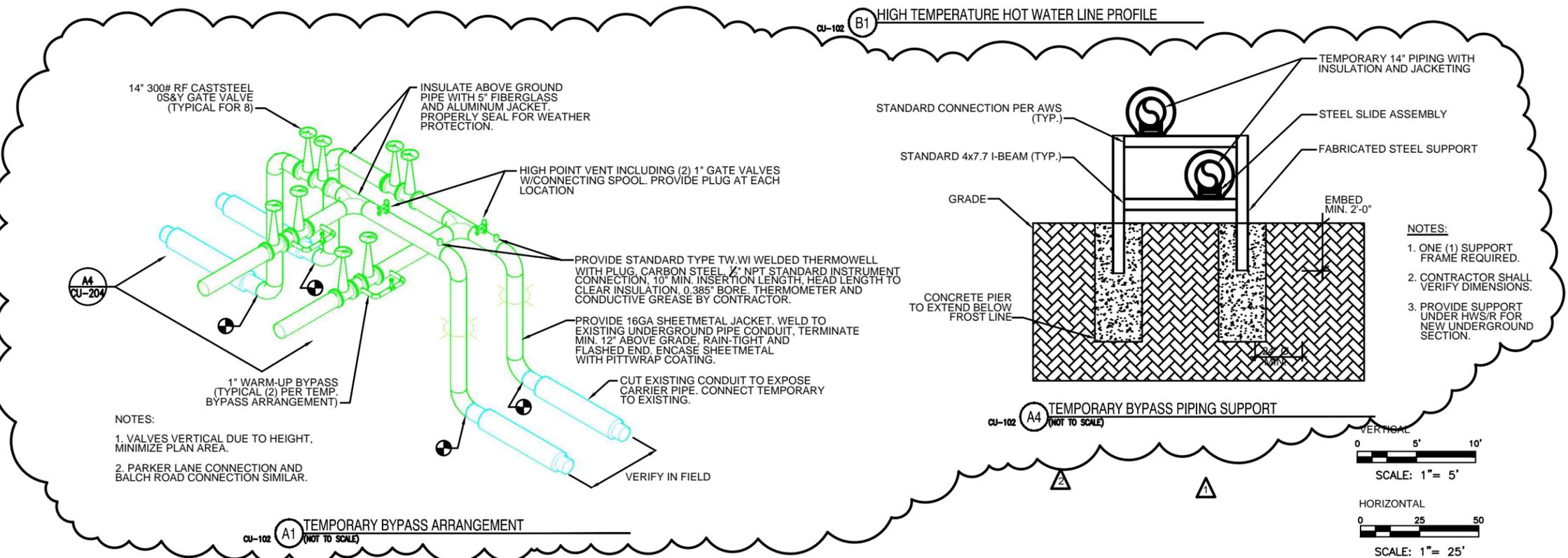
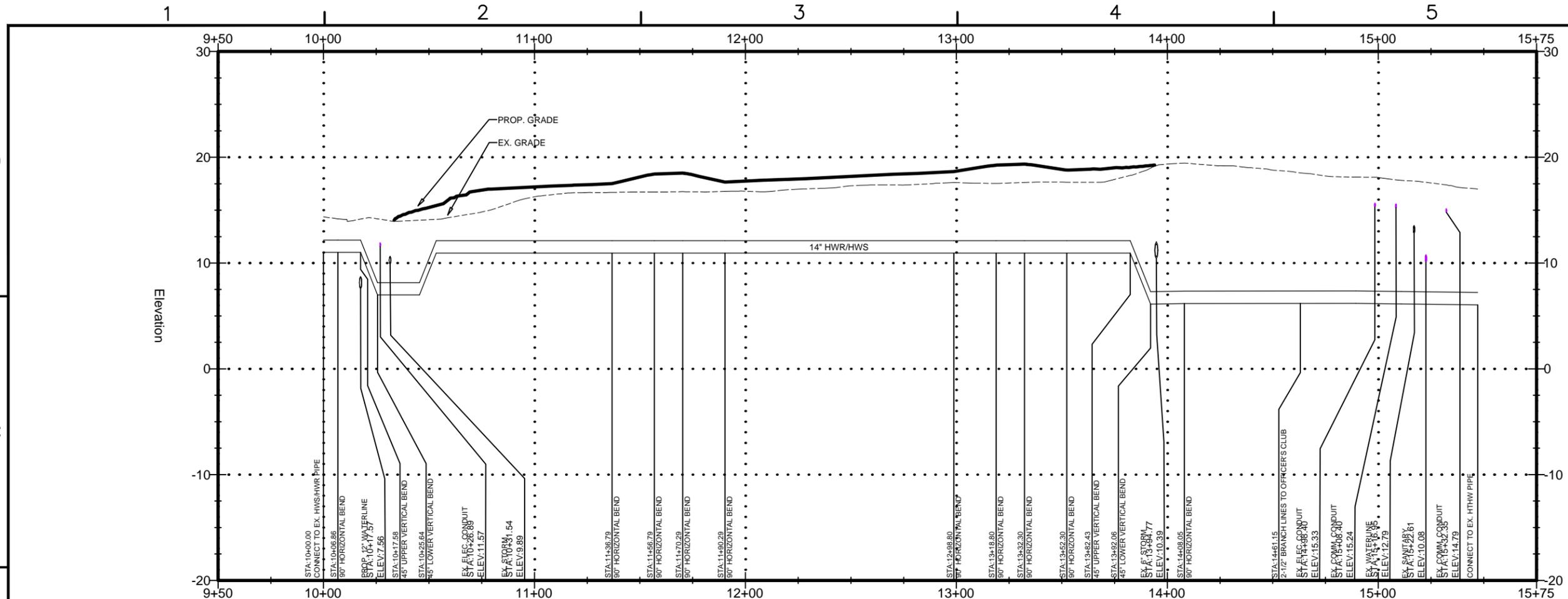
CHIEF ENG/ARCH: <<<>>

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - ANNAPOLIS, MD  
US NAVAL ACADEMY - ANNAPOLIS, MD  
P-621 CENTER FOR CYBER SECURITY STUDIES  
PARKING GARAGE

UTILITY PLAN - HIGH TEMP HOT WATER

SCALE: AS NOTED  
EPROJECT NO.: 1371886  
CONSTR. CONTR. NO.: 13068336  
SHEET 29 OF 119  
CU-102

FILE NAME: F:\yiche\Projects\NAFAC\Veraparis\HTRM\Replacement\Production\000\_DETULS\NAFAC\_PEG10-CU204.dwg LAYOUT NAME: CU-204 PLOTTED: Tuesday, February 17, 2015 - 12:35pm USER: jmdt



DATE	02/17/15
BY	BY-PASS MODIFICATIONS
DATE	01/22/15
BY	ADDED SUPPORT DETAIL
DATE	
BY	

**JACOBS**  
 1100 NORTH GLEBE ROAD  
 SUITE 500  
 ARLINGTON, VIRGINIA 22201  
 571.218.1000  
 FAX: 571.218.1600

FOR COMMANDER NAIFAC  
 N61152-NSA ANNAPOLIS  
 SATISFACTORY TO DATE 10/28/2014  
 DEC HR DRW HR CHK RC  
 <C/N/DB>  
 BRANCH MANAGER AD/IC  
 CHIEF ENG/PROJ  
 <C/D>

DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND  
 US NAVAL ACADEMY - ANNAPOLIS, MD  
 P-621 CENTER FOR CYBER SECURITY STUDIES  
 PARKING GARAGE  
 UTILITY PROFILES - HIGH TEMP. HOT WATER

SCALE: AS NOTED  
 EPROJECT NO.: 1371868  
 CONSTR. CONTR. NO.  
 NAFAC DRAWING NO. 13068342  
 SHEET 33 OF 119  
 CU-204  
 DRAWING REVISION 10 MARCH 2009