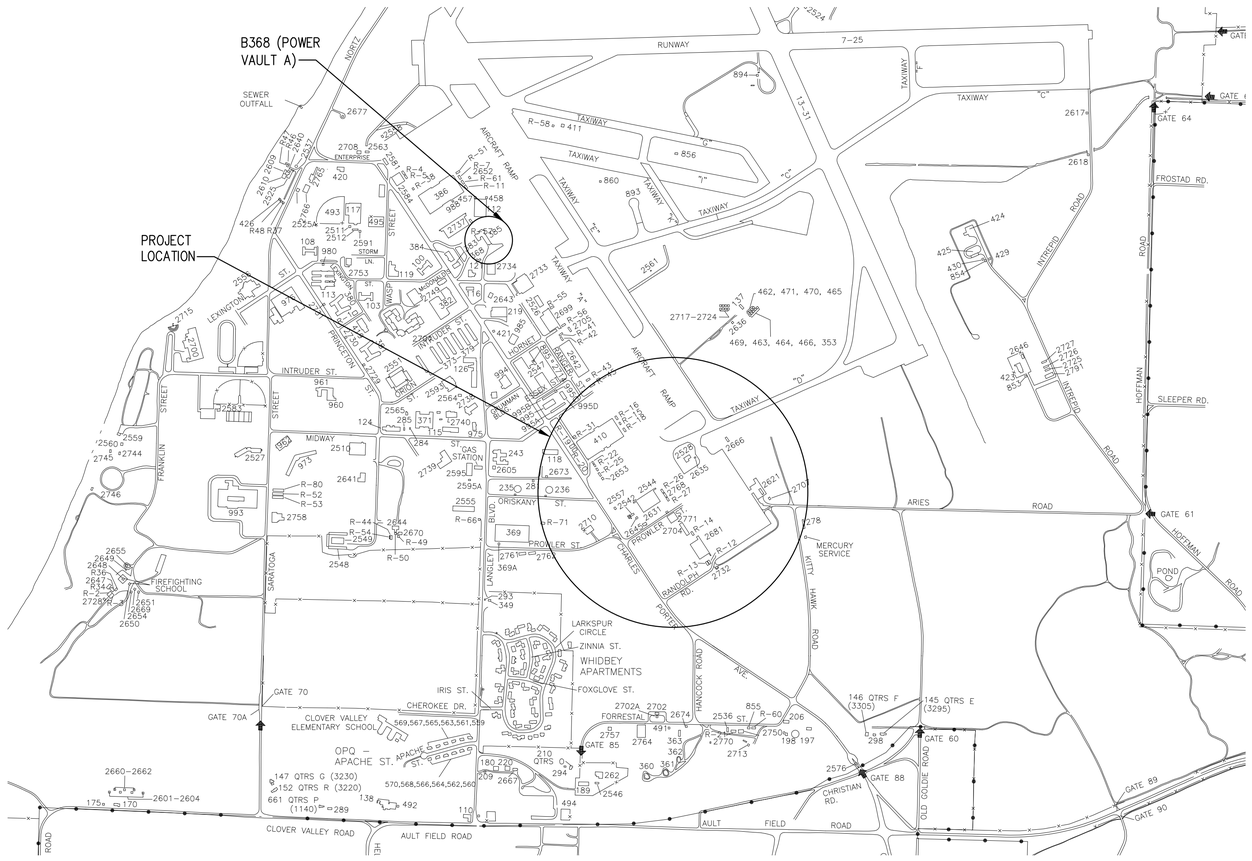
# FY-15 MCON PROJECT P-259
# P-8A AIRCRAFT APRON EXPANSION - PART A

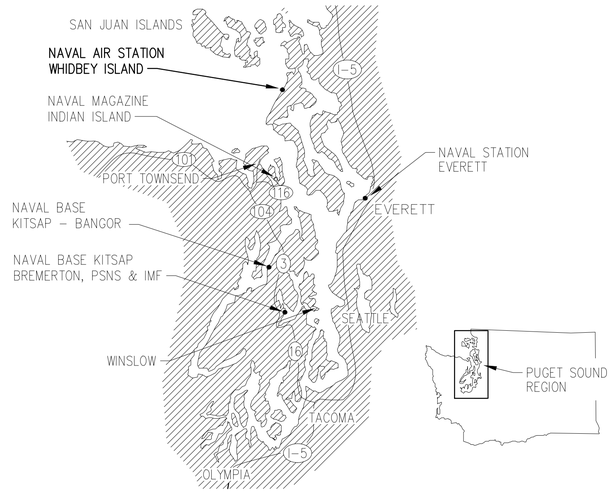
P-8A AIRCRAFT APRON EXPANSION - PART A
NAVAL AIR STATION - WHIDBEY ISLAND
OAK HARBOR, WASHINGTON
CONTRACT NO. N44255-15-C-6003

| ENVIRONMENTAL ENGINEER: | FIRE PROTECTION ENGINEER: | ELECTRICAL ENGINEER: | STRUCTURAL/CIVIL ENGINEER: | ARCHITECT: | MECHANICAL ENGINEER: |
|---|---|---|---|---|---|
| EHS INTERNATIONAL, INC. | FREDERICK DUHRING | SPARLING, INC. | KPFF CONSULTING ENGINEERS | FRASER & FOGLE ARCHITECTS | NOTKIN MECHANICAL ENGINEERS |

| FUEL SPECIALIST: | INTERIOR DESIGNER: | SURVEYING: | CORROSION CONTROL: | GEOTECHNICAL |
|---|---|---|---|---|
| ENTERPRISE ENGINEERING, INC. | 3B DESIGNS, LLC. | PACIFIC SURVEYING & ENGINEERING | NORTON CORROSION, LTD. | GEOENGINEERS, INC. |




AREA MAP (AULT FIELD)
SCALE: NONE




VICINITY MAP
SCALE: NONE

| APPR | DATE | DESCRIPTION | SYM |
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APPROVED
FOR COMMANDER NAVFAC 3/2/15
ACTIVITY
NAS WHIDBEY ISLAND
SATISFACTORY TO DATE
DES: BCD | DRW: JML | CHK: LDS
<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG./ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
AULT FIELD – OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
TITLE SHEET & LOCATION MAPS

SCALE: AS NOTED
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N44255-15-C-6003
NAVFAC DRAWING NO.
16030255
SHEET 1 OF 302
G-001
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APPROVED

FOR COMMANDER NAVFAC 3/2/15

ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES: BCD | DRW: JML | CHK: LDS

<<PM/CM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND - NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

DRAWING INDEX

SCALE: AS NOTED

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G-002

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L:\PROJECTS\214024 – NAVY – 11D008 – NASWI P252 HANGAR\SCHEDULES\[DRAWING INDEX P-259 PART A & B.XLSX]OVERALL INDEX PART A SHEET 4

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

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APPROVED
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ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES: BCD DRW: JML CHK: LDS

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

DRAWING INDEX

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030257

SHEET 3 OF 302

G-003

DRAWFORM REVISION: 10 MARCH 2009

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## GENERAL NOTES:
## ASBESTOS

1. THIS PROJECT INCLUDES THE DEMOLITION, REMOVAL AND DISPOSAL OF HAZARDOUS BUILDING MATERIALS (ASBESTOS AND HAZARDOUS METALS-CONTAINING PAINT AND COATINGS) FROM THE NAVAL AIR STATION WHIDBEY ISLAND AULT FIELD LOCATED IN OAK HARBOR, WASHINGTON.

2. LOCATIONS OF ACM SHOWN ON THE DRAWINGS ARE SCHEMATIC AND APPROXIMATE. A "PRE-DEMOLITION ASBESTOS INSPECTION" WAS ACCOMPLISHED FOR THE PLANNED BUILDING DEMOLITIONS TO LOCATE AND IDENTIFY ASBESTOS-CONTAINING MATERIALS (ACM) IMPACTED BY THE PROJECT (INCLUDED IN BID DOCUMENTS). IMPACTED BUILDINGS WILL BE COMPLETELY DEMOLISHED, THEREFORE ALL HAZARDOUS MATERIALS MUST BE REMOVED AND DISPOSED WITHIN THE SCOPE OF THIS PROJECT, AS INDICATED ON THE HAZARDOUS MATERIALS REMOVAL DRAWINGS, PRIOR TO DEMOLITION. IF ANY IDENTIFIED ACM, OR SUSPECT MATERIAL NOT ADDRESSED BY THE "PRE-DEMOLITION ASBESTOS INSPECTION" ARE TO BE IMPACTED AND ARE NOT CALLED-OUT FOR REMOVAL, CONSULT THE CONTRACTING OFFICER. ANY SUCH MATERIAL MUST BE TREATED AS ACM UNLESS SAMPLED BY A CERTIFIED AHERA BUILDING INSPECTOR AND DETERMINED TO BE NON-ASBESTOS.

   NOTE THAT THE "GOOD FAITH INSPECTION" WAS IN AREAS ANTICIPATED TO BE IMPACTED BY THE DEMOLITION WORK SCHEDULED.

3. REFER TO THE CONTRACT AND CONTRACTOR'S APPROVED WORK PLAN FOR ASBESTOS REMOVAL AND DISPOSAL PROCEDURES AND REQUIREMENTS.

4. USE PROJECT HAZARDOUS MATERIALS SUMMARY LISTED ON THIS SHEET FOR BASE BID QUANTITIES. QUANTITIES ARE CONSIDERED ACCURATE WITHIN PLUS (+) TEN PERCENT (10%). CONTACT THE CONTRACTING OFFICER WITH REGARD TO ANY VARIANCES IN QUANTITIES.

5. LESS THAN 1% (<1%) ACM BUILDING MATERIALS WERE IDENTIFIED DURING THE SURVEY AND WILL BE IMPACTED BY THE PLANNED WORK. REMOVAL AND DISPOSAL OF <1% ACM REQUIRES SPECIFIC TRAINING, WORK PRACTICES AND EXPOSURE ASSESSMENT. REFER TO THE ASBESTOS SPECIFICATION (02 82 14.00 10) AND APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS FOR REQUIREMENTS.

6. THE CONTRACTOR MUST FIELD VERIFY ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, PLUMBING, AND DETAILS AND DIMENSIONS THAT MAY IMPACT THE WORK. THE CONTRACTOR MUST VERIFY THE CONDITION, LOCATION, AND QUANTITIES OF HAZARDOUS MATERIALS IN THIS WORK AREA PRIOR TO SUBMITTING A BID.

## GENERAL NOTES:
## HAZARDOUS METALS-CONTAINING PAINT

1. INTERIOR AND EXTERIOR PAINTED SURFACES WERE FOUND TO CONTAIN HMCP (ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, AND MERCURY).

2. REFER TO THE HAZARDOUS MATERIALS REMOVAL SPECIFICATIONS SECTION 02 83 13.00 20 FOR HMCP DISTURBANCES, DISPOSAL, AND TESTING REQUIREMENTS.

3. THE CONTRACTOR SHALL ASSUME THAT HMCP IS PRESENT ON ANY PAINTED BUILDING MATERIALS NOT TESTED. ALL WORK THAT MAY DISTURB HMCP SHALL BE IN ACCORDANCE WITH, OSHA REGULATION 29 CFR 1926 AND 40 CFR 261, AND THE SPECIFICATIONS SECTION 02 83 13.00 20, INCLUDING DUST CONTROL, EMPLOYEE EXPOSURE ASSESSMENTS AND WASTE CHARACTERIZATION.

## GENERAL NOTES:
## MERCURY-CONTAINING LIGHT TUBES, HID LIGHTING AND PCB-CONTAINING LIGHT BALLASTS

1. HID AND FLUORESCENT LIGHT FIXTURES WILL BE IMPACTED BY THE PLANNED WORK. THE CONTRACTOR MUST INSPECT ALL IMPACTED LIGHT FIXTURES. ALL IMPACTED MAGNETIC LIGHT BALLASTS ARE ASSUMED TO CONTAIN > 2PPM PCBs AND THEREFORE MUST BE REMOVED, PACKAGED IN REQUIRED DOT CONTAINER, AND DISPOSED BY THE CONTRACTOR AS DEPARTMENT OF ECOLOGY DANGEROUS WASTE. IMPACTED ELECTRONIC LIGHT BALLASTS MAY BE DISPOSED AS NON-CONTAMINATED CONSTRUCTION DEBRIS. ALL FLUORESCENT LIGHT TUBES ARE MERCURY-CONTAINING. MERCURY-CONTAINING LIGHT TUBES MUST BE RECYCLED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS SECTION 02 84 16, WITHOUT BREAKAGE ON SITE. REFER TO CONTRACT SPECIFICATIONS 02 84 16 AND DRAWINGS, REGULATIONS, AND CONTRACTOR'S APPROVED WORK PLAN FOR PCB BALLAST, HID LAMP AND FLUORESCENT LIGHT TUBE DISPOSAL/RECYCLING PROCEDURES.

## ABBREVIATIONS / DEFINITIONS

ABBREV'NS – ABBREVIATIONS
ACM – ASBESTOS-CONTAINING MATERIAL
AHERA – ASBESTOS HAZARD EMERGENCY RESPONSE ACT
APPROX – APPROXIMATELY
BLDG – BUILDING
CAB – CEMENT ASBESTOS BOARD
CFR – CODE OF FEDERAL REGULATION
CMU – CONCRETE MASONRY UNIT
DOT – DEPARTMENT OF TRANSPORTATION
EA – EACH
GWB – GYPSUM WALLBOARD
H – HEIGHT
HID – HIGH INTENSITY DISCHARGE
HMCP – HAZARDOUS METALS-CONTAINING PAINT
L – LENGTH
LF – LINEAR FEET
MAT'LS – MATERIALS
OD – OUTSIDE DIAMETER
OSHA – U. S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH AGENCY
PCB – POLYCHLORINATED BIPHENYLS
PPM – PARTS PER MILLION
SF – SQUARE FEET
SUMM – SUMMARY
TSI – THERMAL SYSTEM INSULATION
TYP – TYPICAL
VCT – VINYL COMPOSITE TILE
W – WIDTH
W/ – WITH

## SHEET INDEX


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| H-111 | HAZMAT – BUILDING 2528 |
| H-121 | HAZMAT – BUILDING 2621 INTERIOR |
| H-122 | HAZMAT – BUILDING 2621 EXTERIOR AND ROOF |
| H-131 | HAZMAT – BUILDING 2635 INTERIOR AND ROOF |
| H-151 | HAZMAT – BUILDING 2786 INTERIOR |
| H-161 | HAZMAT – BUILDING 2800 INTERIOR |


## PROJECT HAZARDOUS MATERIALS SUMMARY

| QUANTITY/ UNITS | DESCRIPTION |
|---|---|
| | BUILDING 2528 |
| 3 EA | NON-ACM NEWER GRAY VENT FRAME CAULKING ON ACM SILVER PAINT ON OLD ACM GRAY VENT FRAME CAULKING (ON 3'X4' METAL VENT FRAME) |
| 3 EA | ACM GRAY 12" OD FLANGE GASKETS |
| 1,200 LF | ACM OFF-WHITE CAULKING AT SEAMS ON 4'X16' CORRUGATED METAL SIDING PANELS |
| 36 EA | ASSUMED ACM 8" OD FLANGE GASKETS |
| 189 EA | ASSUMED ACM 10" OD FLANGE GASKETS |
| 8 EA | ASSUMED ACM INTERNAL ARC-CHUTES IN SWITCHGEAR CABINETS (3'WX5'LX7'H) |
| 4 EA | ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL CONVERTER CABINETS (3'WX5'LX6'H) |
| 6 EA | ASSUMED ACM INTERNALS IN TRANSFER SWITCH CABINETS (2'WX3'LX4'H) |

## PROJECT HAZARDOUS MATERIALS SUMMARY

| QUANTITY/ UNITS | DESCRIPTION |
|---|---|
| | BUILDING 2528 (CONT.) |
| 3 EA | ASSUMED ACM CAULKING AND SEALANTS ASSOCIATED WITH METAL ROOF TOP EXHAUST VENTS (3'X5') |
| 2 EA | ASSUMED ACM CAULKING AND SEALANTS ASSOCIATED WITH METAL ROOF TOP EXHAUST VENT (18" OD) |
| 60 EA | MERCURY-CONTAINING FLUORESCENT LIGHT TUBES |
| 30 EA | PCB-CONTAINING MAGNETIC BALLASTS |
| | BUILDING 2621 |
| 1,350 SF | CAB INTERIOR WALL PANELS ASSUMED ACM MASTIC BEHIND CAB WALL PANELS |
| 400 SF | NON-ACM 12"X12" BEIGE VCT W/ ACM BLACK MASTIC, ON CONCRETE |
| 2 EA | ACM GRAY/WHITE VENT FRAME CAULKING W/ PAINT (2'X2' METAL-FRAMED) |
| 6 LF | ACM BEIGE CAULKING W/PAINT (1'X6' METAL AWNING FLASHING) |
| 2,200 SF | ACM BUILT-UP ROOFING W/ ACM FELT, ON NON-ACM BROWN PERLITE ON METAL DECKING |
| 2 EA | ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL PANELS |
| 1 EA | ASSUMED ACM BOILER INTERNALS (4'X4'X5') |
| 100 LF | ASSUMED ACM TSI CONCEALED IN WET WALLS AND ABOVE HARD LID CEILINGS |
| 74 EA | MERCURY-CONTAINING FLUORESCENT LIGHT TUBES |
| 37 EA | PCB-CONTAINING MAGNETIC BALLASTS |
| | BUILDING 2635 |
| 400 SF | ACM BLACK/GRAY ASPHALTIC ROOF REPAIR PATCHES |
| 10 EA | ACM BLACK FLANGE GASKET (12" OD) |
| 2 EA | ACM GRAY FLANGE GASKET (12" OD) |
| 2 EA | ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL PANEL |
| 34 EA | MERCURY-CONTAINING FLUORESCENT LIGHT TUBES |
| 17 EA | PCB-CONTAINING MAGNETIC BALLASTS |
| | BUILDING 2707 |
| | NONE REPORTED |
| | BUILDING 2786 |
| 1 EA | ASSUMED ACM MIRROR MASTIC (3'X4') ON GWB |
| 34 EA | MERCURY-CONTAINING FLUORESCENT LIGHT TUBES |
| 17 EA | PCB-CONTAINING MAGNETIC BALLASTS |
| | BUILDING 2800 |
| 1 EA | ASSUMED ACM MIRROR MASTIC (3'X4') ON GWB |
| 37 EA | MERCURY-CONTAINING FLUORESCENT LIGHT TUBES |
| 11 EA | PCB-CONTAINING MAGNETIC BALLASTS |
| 18 EA | HID BULBS ON 50' LIGHT POLES (2 BULBS PER POLE) |
| | APRON |
| 9 EA | PCB-CONTAINING MAGNETIC BALLASTS ON 50' LIGHT POLES |

APPR | DATE | DESCRIPTION | SYM

NAVFAC

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SATISFACTORY TO DATE
DES: DE DRW: FD CHK: HB
<<FPM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD – OAK HARBOR, WA
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
GENERAL NOTES, ABBREV'NS, & MAT'LS SUMM.

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030258
SHEET 4 OF 302
H-001
DRAWFORM REVISION: 10 MARCH 2009

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

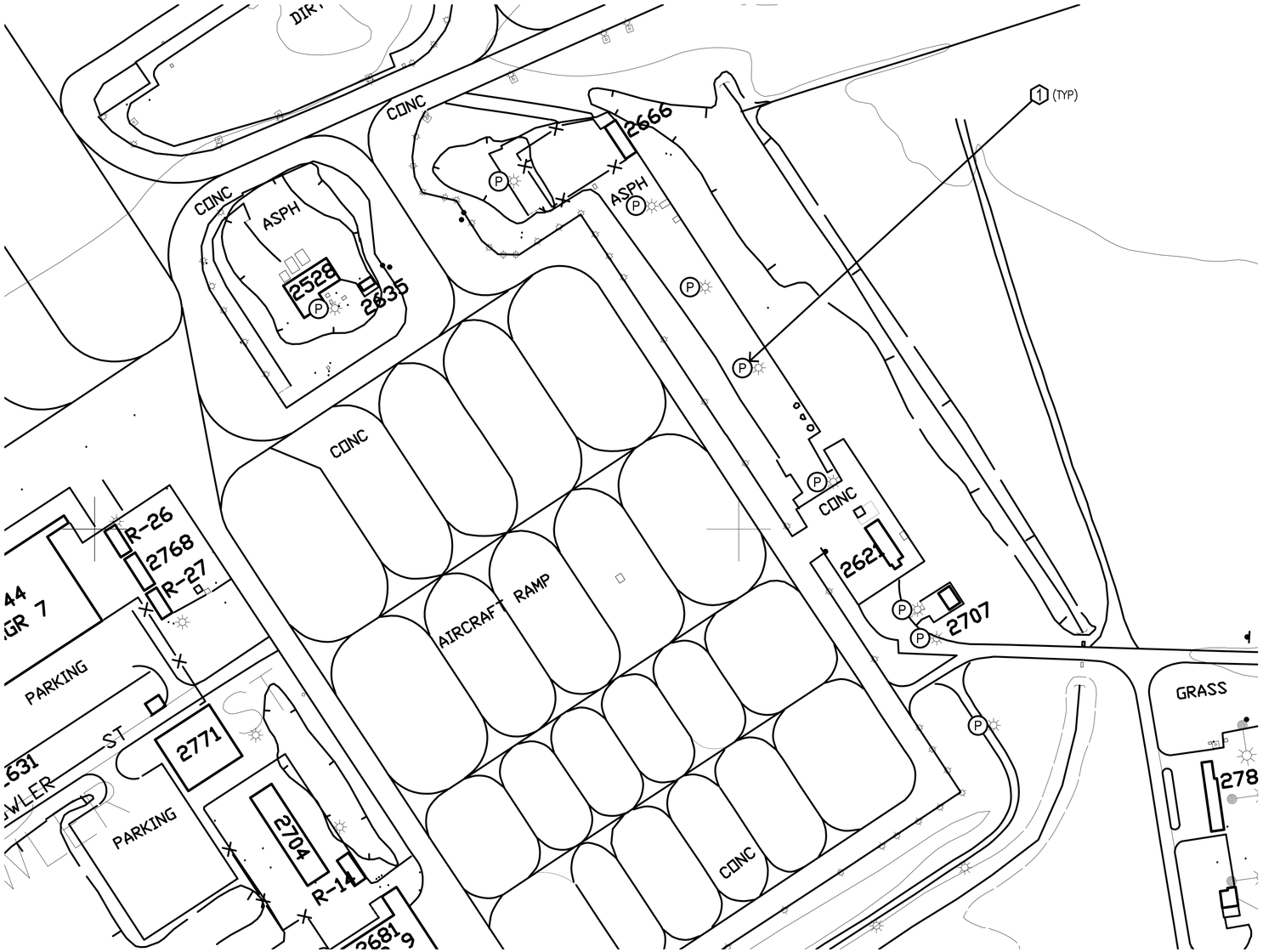
## SHEET NOTES

1. 50' LIGHT POLE WITH 2 HID BULBS: REMOVE, INSPECT, AND IF BALLASTS ARE MAGNETIC, DISPOSE AS PCB WASTE. RECYCLE HID BULBS AS UNIVERSAL WASTE. REFER ELECTRICAL DEMOLITION DRAWINGS.

## SHEET LEGEND

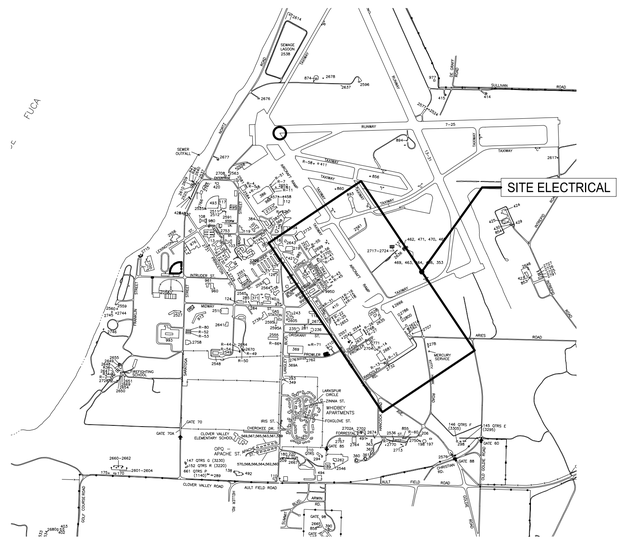
(P) 50' LIGHT POLE WITH 2 HID BULBS

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.




HAZMAT - SITE ELECTRICAL
SCALE: 1" = 100'

1" = 100'-0"
0 100 200 300




KEY PLAN
SCALE: 1" = 1000'

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|

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FOR COMMANDER NAVFAC 3/12/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES: DE | DRW: FD | CHK: HB |
|---|---|---|

<<FPM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH
<<>>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

HAZMAT – SITE ELECTRICAL

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030259
SHEET 5 OF 302

H-101

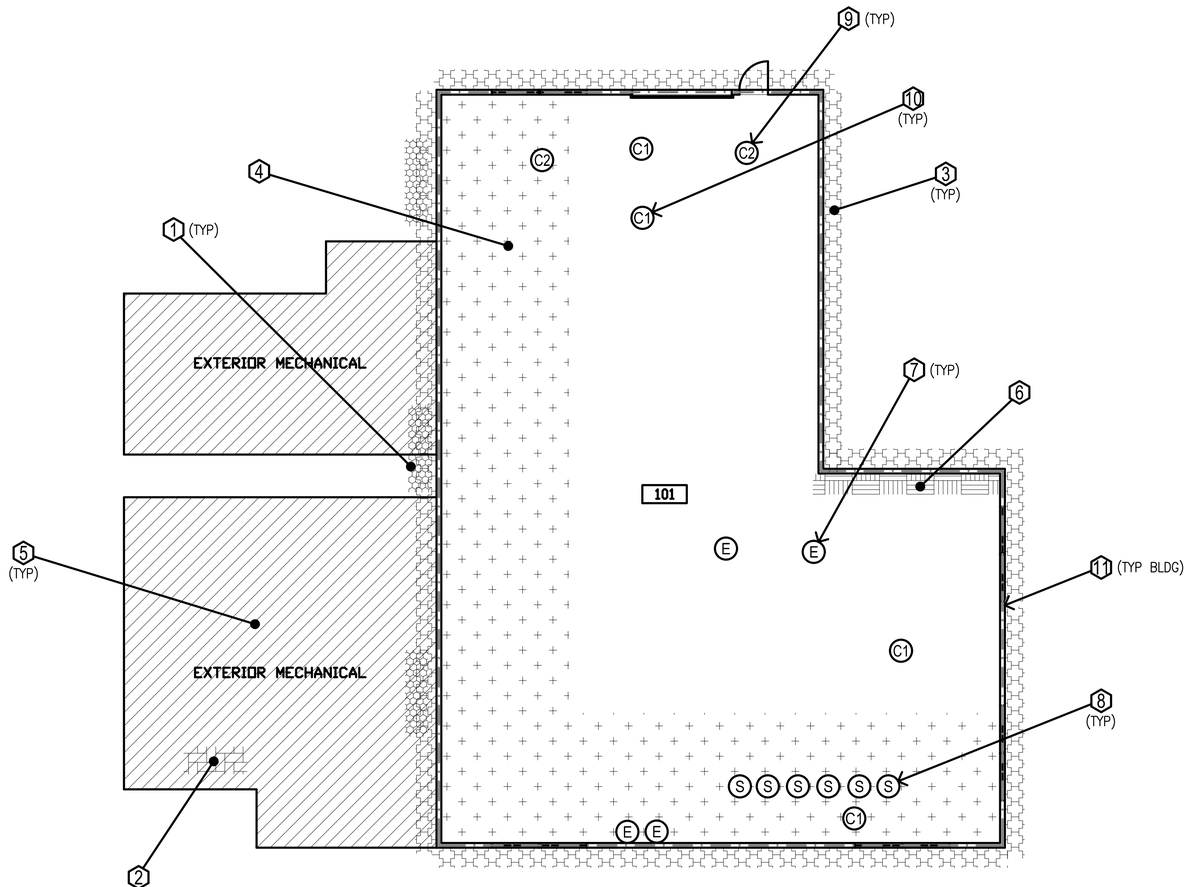
DRAWFORM REVISION: 10 MARCH 2009

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

## SHEET NOTES

1. REMOVE AND DISPOSE OF NON-ACM NEWER GRAY VENT FRAME CAULKING ON ACM SILVER PAINT ON OLD ACM GRAY VENT FRAME CAULKING (ON 3'X4' METAL VENT FRAME).
2. REMOVE AND DISPOSE OF ACM GRAY 12" OD FLANGE GASKETS.
3. REMOVE AND DISPOSE OF ACM OFF-WHITE CAULKING AT SEAMS ON 4'X16' CORRUGATED METAL SIDING PANELS ASSUMED.
4. REMOVE AND DISPOSE OF ASSUMED ACM 8" OD FLANGE GASKETS.
5. REMOVE AND DISPOSE OF ASSUMED ACM 10" OD FLANGE GASKETS.
6. REMOVE AND DISPOSE OF ASSUMED ACM INTERNAL ARC-CHUTES IN SWITCHGEAR CABINETS (3'WX5'LX7'H).
7. REMOVE AND DISPOSE OF ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL CONVERTER CABINETS (3'WX5'LX6'H).
8. REMOVE AND DISPOSE OF ASSUMED ACM INTERNALS IN TRANSFER SWITCH CABINETS (2'WX3'LX4'H).
9. REMOVE AND DISPOSE OF ASSUMED ACM CAULKING AND SEALANTS ASSOCIATED WITH METAL ROOF TOP EXHAUST VENTS (3'X5').
10. REMOVE AND DISPOSE OF ASSUMED ACM CAULKING AND SEALANTS ASSOCIATED WITH METAL ROOF TOP EXHAUST VENT (1 1/2' OD).
11. OPEN AND INSPECT ALL FLUORESCENT LIGHT FIXTURES. IF BALLASTS ARE MAGNETIC, REMOVE AND DISPOSE AS PCB WASTE. ELECTRONIC BALLASTS MAY BE RECYCLED FOR METALS. RECYCLE ALL FLUORESCENT LIGHT TUBES AS UNIVERSAL WASTE.




HAZMAT - BUILDING 2528

SCALE: 1/8" = 1'-0"

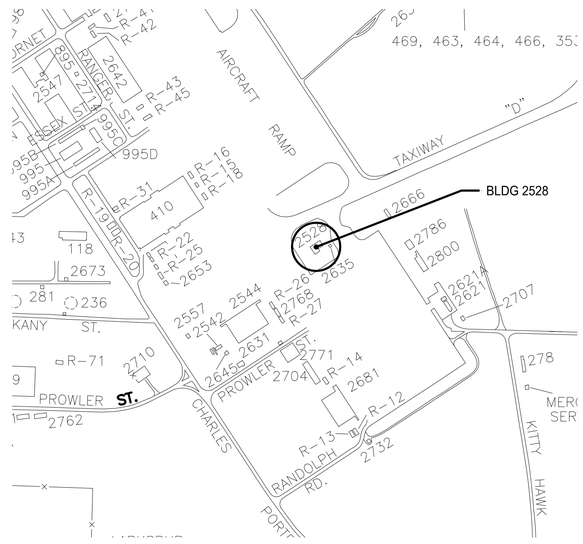
1/8" = 1'-0"

0 4 8 16 24

## SHEET LEGEND

- NON-ACM NEWER GRAY VENT FRAME CAULKING ON ACM SILVER PAINT ON OLD ACM GRAY VENT FRAME CAULKING (ON 3'X4' METAL VENT FRAME)
- ACM GRAY 12" OD FLANGE GASKETS
- ACM OFF-WHITE CAULKING AT SEAMS ON 4'X16' CORRUGATED METAL SIDING PANELS
- ASSUMED ACM 8" OD FLANGE GASKETS
- ASSUMED ACM 10" OD FLANGE GASKETS
- ASSUMED ACM INTERNAL ARC-CHUTES IN SWITCHGEAR CABINETS (3'WX5'LX7'H)
- (E) ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL CONVERTER CABINETS (3'WX5'LX6'H)
- (S) ASSUMED ACM INTERNALS IN TRANSFER SWITCH CABINETS (2'WX3'LX4'H)
- (C2) ASSUMED ACM CAULKING AND SEALANTS ASSOCIATED WITH METAL ROOF TOP EXHAUST VENTS (3'X5')
- (C1) ASSUMED ACM CAULKING AND SEALANTS ASSOCIATED WITH METAL ROOF TOP EXHAUST VENT (18" OD)

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.




KEY PLAN

SCALE: NONE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APPROVED
FOR COMMANDER NAVFAC 3/12/15

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES: DE | DRW: FD | CHK: HB |
|---|---|---|

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
ALT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

HAZMAT - BUILDING 2528

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.: N44255-15-C-6003

NAVFAC DRAWING NO.: 16030260

SHEET 6 OF 302

H-111

DRAWFORM REVISION: 10 MARCH 2009

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

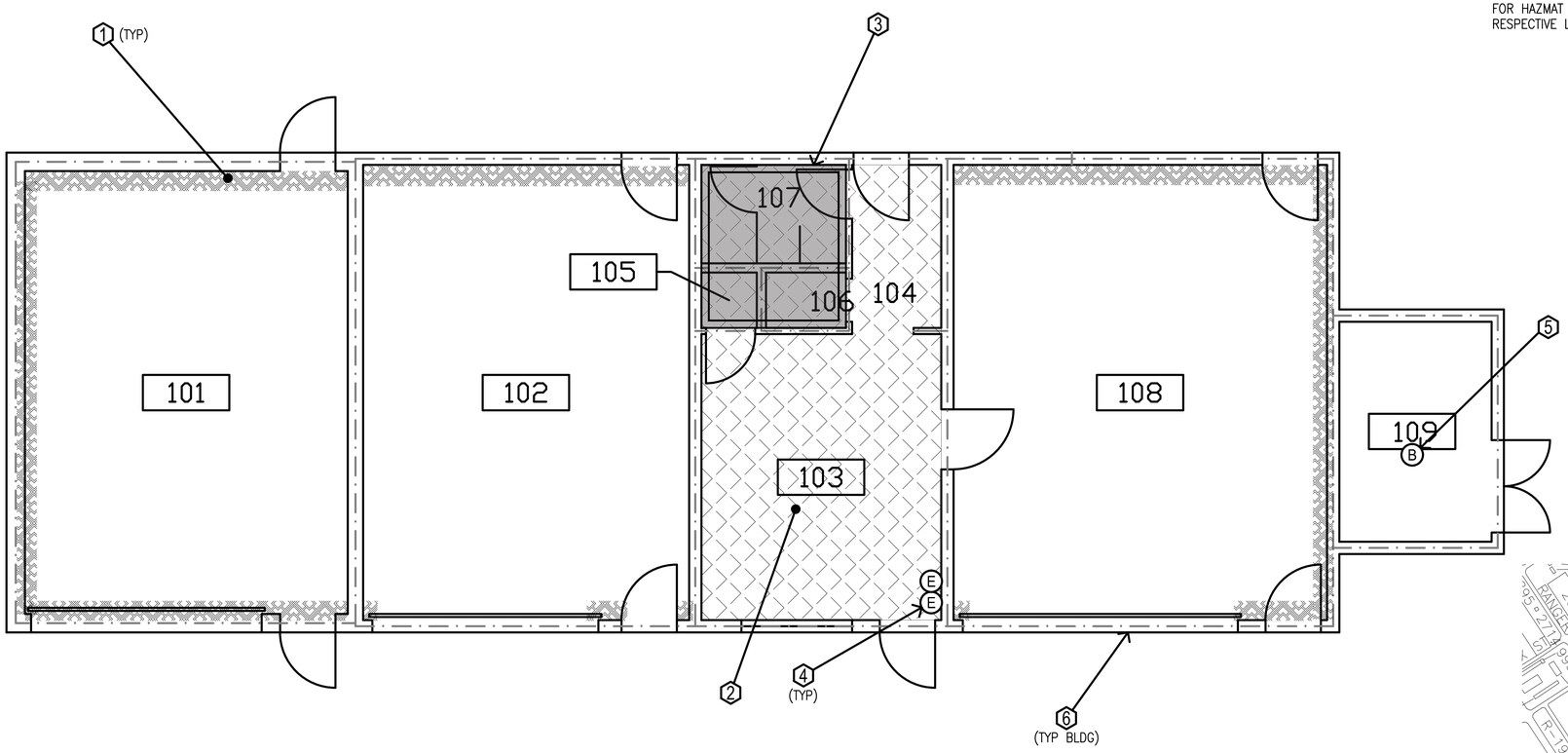
## SHEET NOTES

1. REMOVE AND DISPOSE OF CAB INTERIOR WALL PANELS WITH ASSUMED ACM MASTIC ON CMU.
2. REMOVE AND DISPOSE OF NON-ACM 12"X12" BEIGE VCT W/ ACM BLACK MASTIC, ON CONCRETE.
3. REMOVE AND DISPOSE OF ASSUMED ACM TSI CONCEALED IN WET WALLS AND ABOVE HARD LID CEILINGS.
4. REMOVE AND DISPOSE OF ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL PANELS.
5. REMOVE AND DISPOSE OF ASSUMED ACM BOILER INTERNALS (4'X4'X5').
6. OPEN AND INSPECT ALL FLUORESCENT LIGHT FIXTURES. IF BALLASTS ARE MAGNETIC, REMOVE AND DISPOSE AS PCB WASTE. ELECTRONIC BALLASTS MAY BE RECYCLED FOR METALS. RECYCLE ALL FLUORESCENT LIGHT TUBES AS UNIVERSAL WASTE.

## SHEET LEGEND

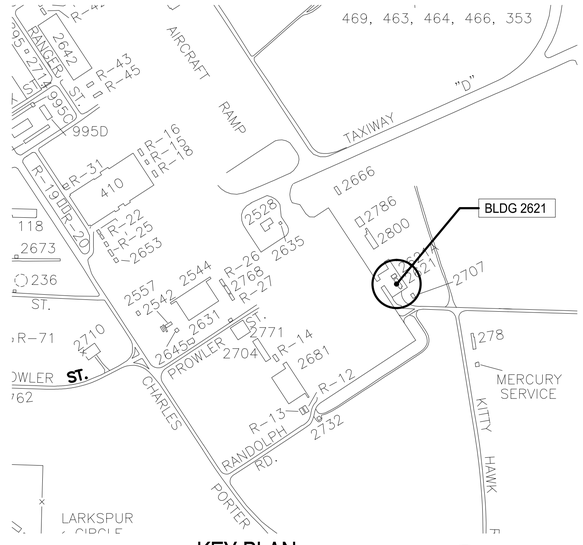
- CAB INTERIOR WALL PANELS WITH ASSUMED ACM MASTIC ON CMU
- NON-ACM 12"X12" BEIGE VCT W/ ACM BLACK MASTIC, ON CONCRETE
- ASSUMED ACM TSI CONCEALED IN WET WALLS AND ABOVE HARD LID CEILINGS
- (E) ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL PANELS
- (B) ASSUMED ACM BOILER INTERNALS (4'X4'X5')

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.




HAZMAT - BUILDING 2621 INTERIOR
SCALE: 1/4" = 1'-0"

1/4" = 1'-0"
0 2 4 8 12




KEY PLAN
SCALE: NONE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APPROVED
FOR COMMANDER NAVFAC 3/12/15
ACTIVITY
NAS WHIDBEY ISLAND
SATISFACTORY TO DATE
DES: DE | DRW: FD | CHK: HB
<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
HAZMAT - BUILDING 2621 INTERIOR

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030261
SHEET 7 OF 302
H-121

DRAWFORM REVISION: 10 MARCH 2009

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

## SHEET NOTES

1. REMOVE AND DISPOSE OF ACM BEIGE CAULKING W/PAINT (1'X6' METAL AWNING FLASHING).
2. REMOVE AND DISPOSE OF ACM BUILT-UP ROOFING W/ ACM FELT, ON NON-ACM BROWN PERLITE ON METAL DECKING.
3. REMOVE AND DISPOSE OF ACM GRAY/WHITE VENT FRAME CAULKING W/ PAINT (2'X2' METAL-FRAMED).

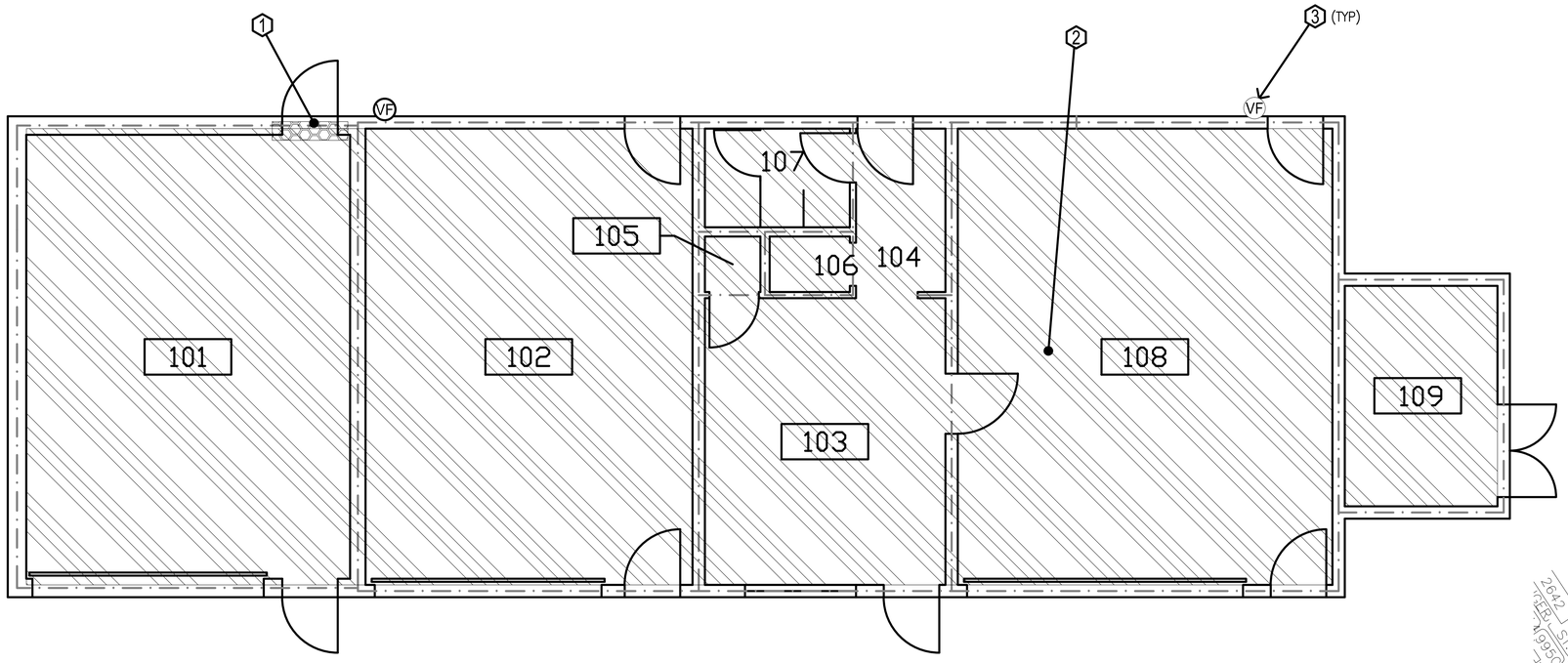
## SHEET LEGEND

ACM BEIGE CAULKING W/PAINT (1'X6' METAL AWNING FLASHING)

ACM BUILT-UP ROOFING W/ ACM FELT, ON NON-ACM BROWN PERLITE ON METAL DECKING

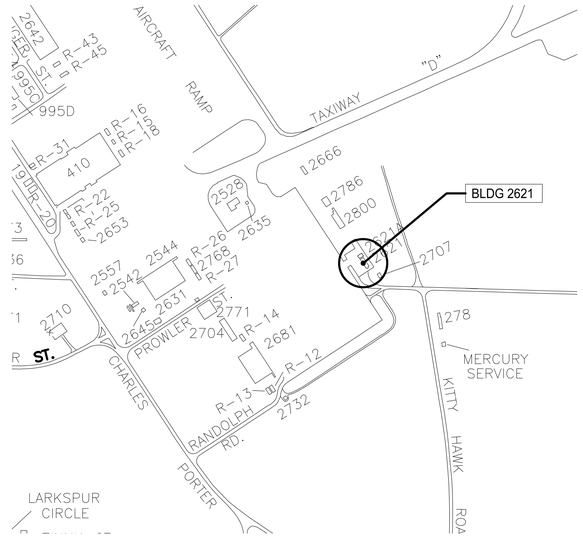
(VF) ACM GRAY/WHITE VENT FRAME CAULKING W/ PAINT (2'X2' METAL-FRAMED)

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.




HAZMAT - BUILDING 2621 EXTERIOR AND ROOF
SCALE: 1/4" = 1'-0"

1/4" = 1'-0"
0 2 4 8 12




KEY PLAN
SCALE: NONE

| NO. | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | | | |

NAVFAC

REGISTERED PROJECT DESIGNER
HERBERT BROD
REG. NO. 10664-01-01
06/12/2015
SEAL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APPROVED
FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES: DE | DRW: FD | CHK: HB

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
ALF FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

HAZMAT - BUILDING 2621 EXTERIOR AND ROOF

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.: N44255-15-C-6003
NAVFAC DRAWING NO.: 16030262
SHEET 8 OF 302

H-122

DRAWFORM REVISION: 10 MARCH 2009

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

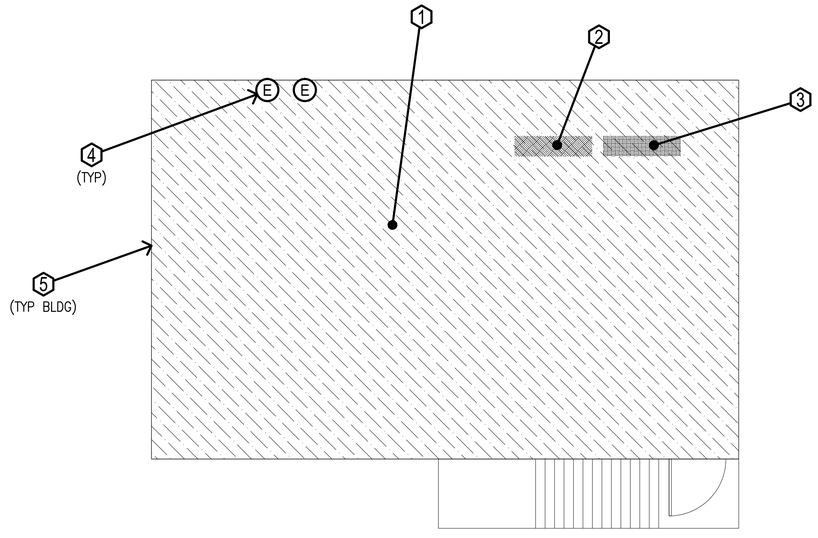
## SHEET NOTES

1. RMEOVE AND DISPOSE OF ACM BLACK/GRAY ASPHALTIC ROOF REPAIR PATCH.
2. REMOVE AND DISPOSE OF ACM BLACK FLANGE GASKET (12" OD).
3. REMOVE AND DISPOSE OF ACM GRAY FLANGE GASKET (12" OD).
4. REMOVE AND DISPOSE OF ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL PANEL.
5. OPEN AND INSPECT ALL FLUORESCENT LIGHT FIXTURES. IF BALLASTS ARE MAGNETIC, REMOVE AND DISPOSE AS PCB WASTE. ELECTRONIC BALLASTS MAY BE RECYCLED FOR METALS. RECYCLE ALL FLUORESCENT LIGHT TUBES AS UNIVERSAL WASTE.

## SHEET LEGEND

- ACM BLACK/GRAY ASPHALTIC ROOF REPAIR PATCH
- ACM BLACK FLANGE GASKET (12" OD)
- ACM GRAY FLANGE GASKET (12" OD)
- (E) ASSUMED ACM INTERNAL COMPONENTS IN ELECTRICAL PANEL

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.

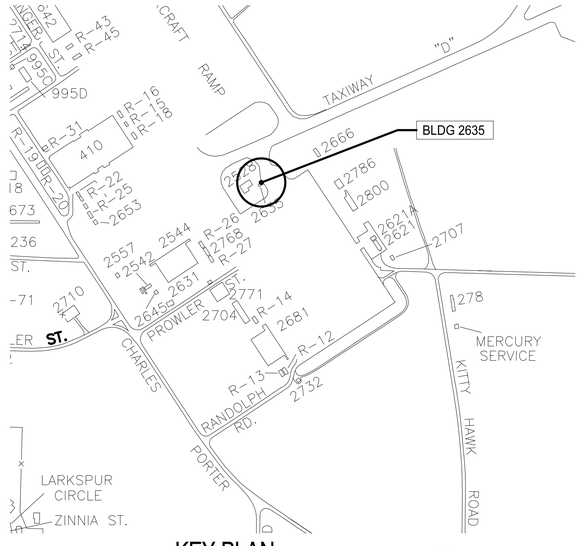



HAZMAT - BUILDING 2635 INTERIOR AND ROOF

SCALE: 1/4" = 1'-0"

1/4" = 1'-0"

0 2 4 8 12




KEY PLAN

SCALE: NONE

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

AHERA PROJECT DESIGNER
HERBERT BROD
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A/E INFO


APPROVED
FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES: DE DRW: FD CHK: HB

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

HAZMAT – BUILDING 2635 INTERIOR AND ROOF

SCALE: AS NOTED

EPROJECT NO.:

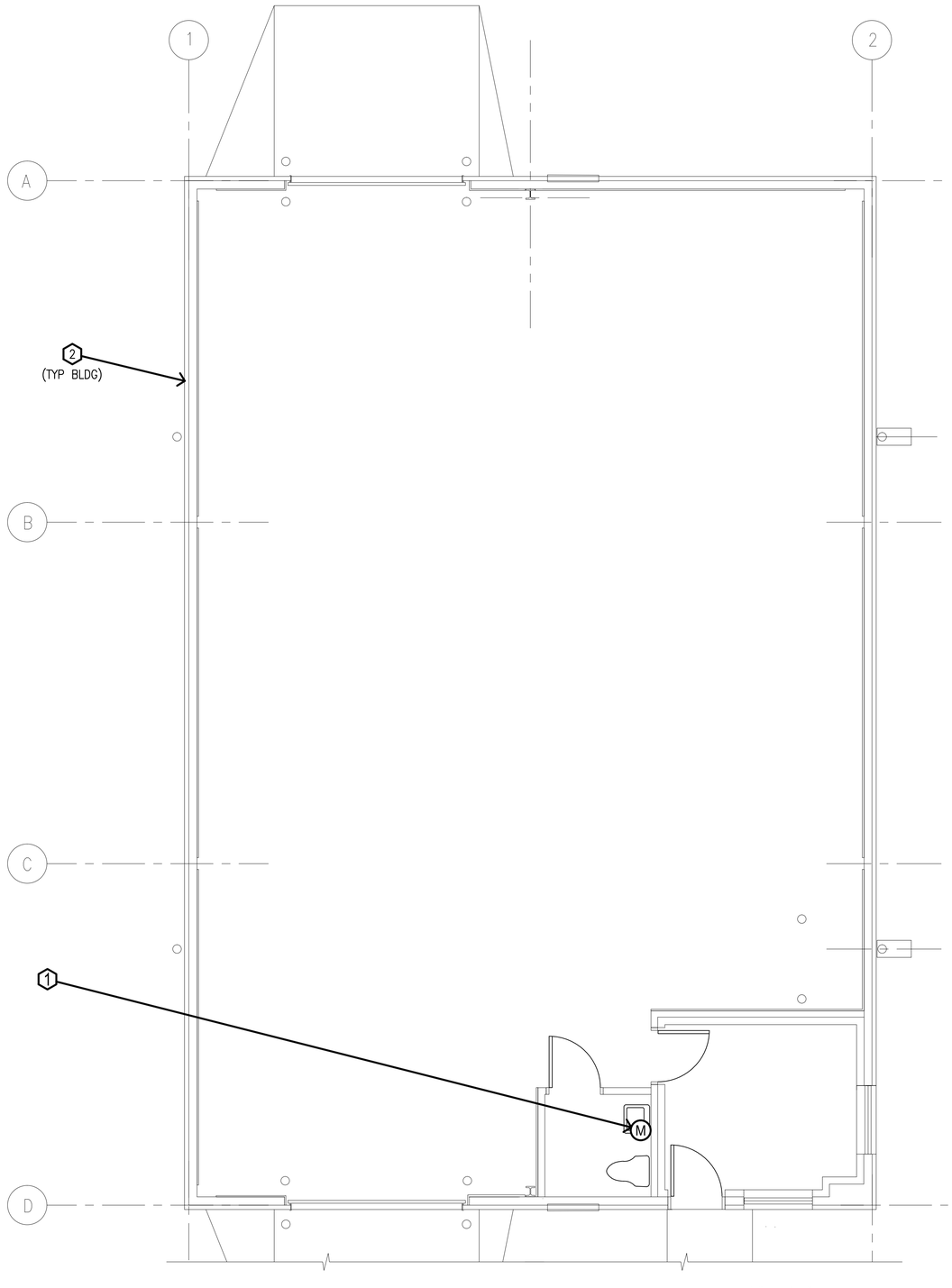
CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030263

SHEET 9 OF 302

H-131

DRAWFORM REVISION: 10 MARCH 2009




HAZMAT - BUILDING 2786 INTERIOR

SCALE: 1/4" = 1'-0"

1/4" = 1'-0"

0 2 4 8 12

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

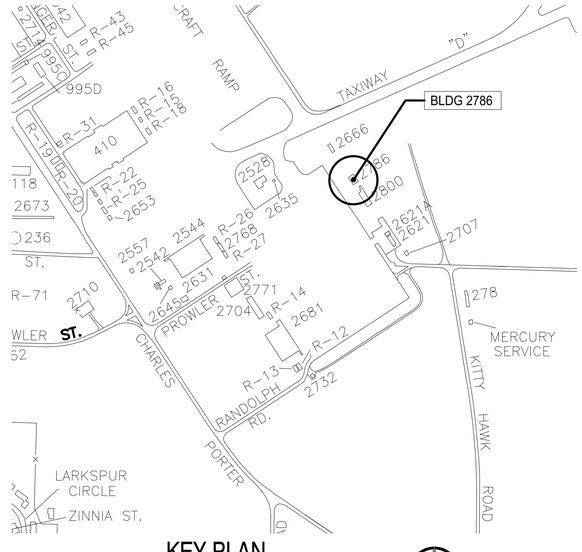
## SHEET NOTES

1. REMOVE AND DISPOSE OF ASSUMED ACM MIRROR MASTIC (3'x4') ON GWB.
2. OPEN AND INSPECT ALL FLUORESCENT LIGHT FIXTURES. IF BALLASTS ARE MAGNETIC, REMOVE AND DISPOSE AS PCB WASTE. ELECTRONIC BALLASTS MAY BE RECYCLED FOR METALS. RECYCLE ALL FLUORESCENT LIGHT TUBES AS UNIVERSAL WASTE.

## SHEET LEGEND

(M) ASSUMED ACM MIRROR MASTIC (3'x4') ON GWB

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.




KEY PLAN

SCALE: NONE

APPR | DATE | DESCRIPTION | SYM

NAVFAC

AREA PROJECT DATA MANAGER
HERBERT BROD
REG. NO. 10664-01-01
06/12/2015
SEAL

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A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/12/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES: DE | DRW: FD | CHK: HB

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

HAZMAT – BUILDING 2786 INTERIOR

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030264

SHEET 10 OF 302

H-151

DRAWFORM REVISION: 10 MARCH 2009

## GENERAL NOTES

FOR GENERAL NOTES, ABBREVIATIONS, AND MATERIALS SUMMARY, SEE SHEET H-001.

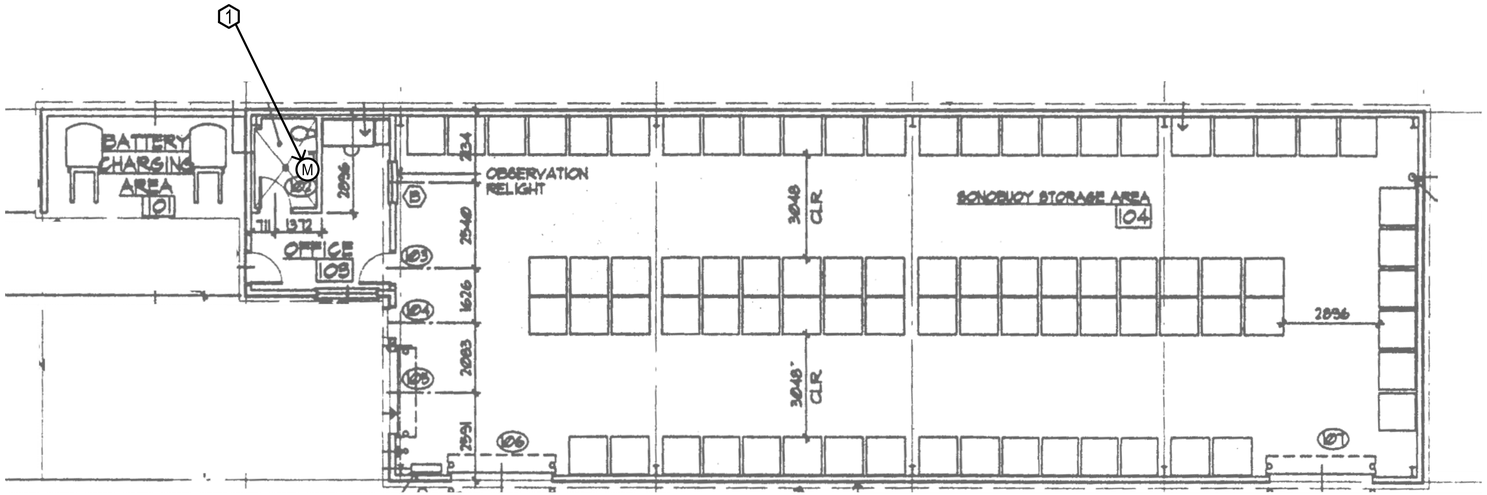
## SHEET NOTES

(1) REMOVE AND DISPOSE OF ASSUMED ACM MIRROR MASTIC (3'x4') ON GWB.

## SHEET LEGEND

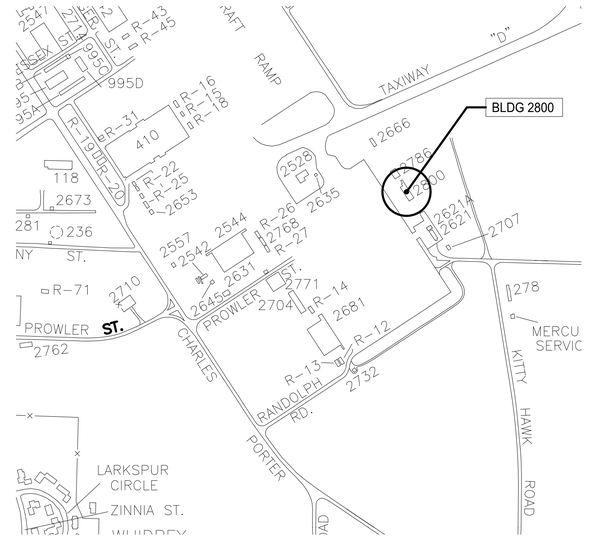
(M) ASSUMED ACM MIRROR MASTIC (3'x4') ON GWB

THE ABOVE LEGEND REFERS ONLY TO HAZMAT ITEMS SHOWN ON THIS SHEET.
FOR HAZMAT ITEMS SHOWN ON OTHER HAZMAT SHEETS RELATED TO THIS PROJECT, REFER TO THEIR RESPECTIVE LEGENDS OF THE SHEET ON WHICH THEY ARE SHOWN.




HAZMAT - BUILDING 2800 INTERIOR
SCALE: 1/8" = 1'-0"

1/8" = 1'-0"
0 4 8 16 24




KEY PLAN
SCALE: NONE

| NO. | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

NAVFAC PROJECT DESIGNER
HERBERT BROD
REG. NO. 10664-01-01
06/12/2015
SEAL

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A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND
SATISFACTORY TO DATE
DES: DE DRW: FD CHK: HB
<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

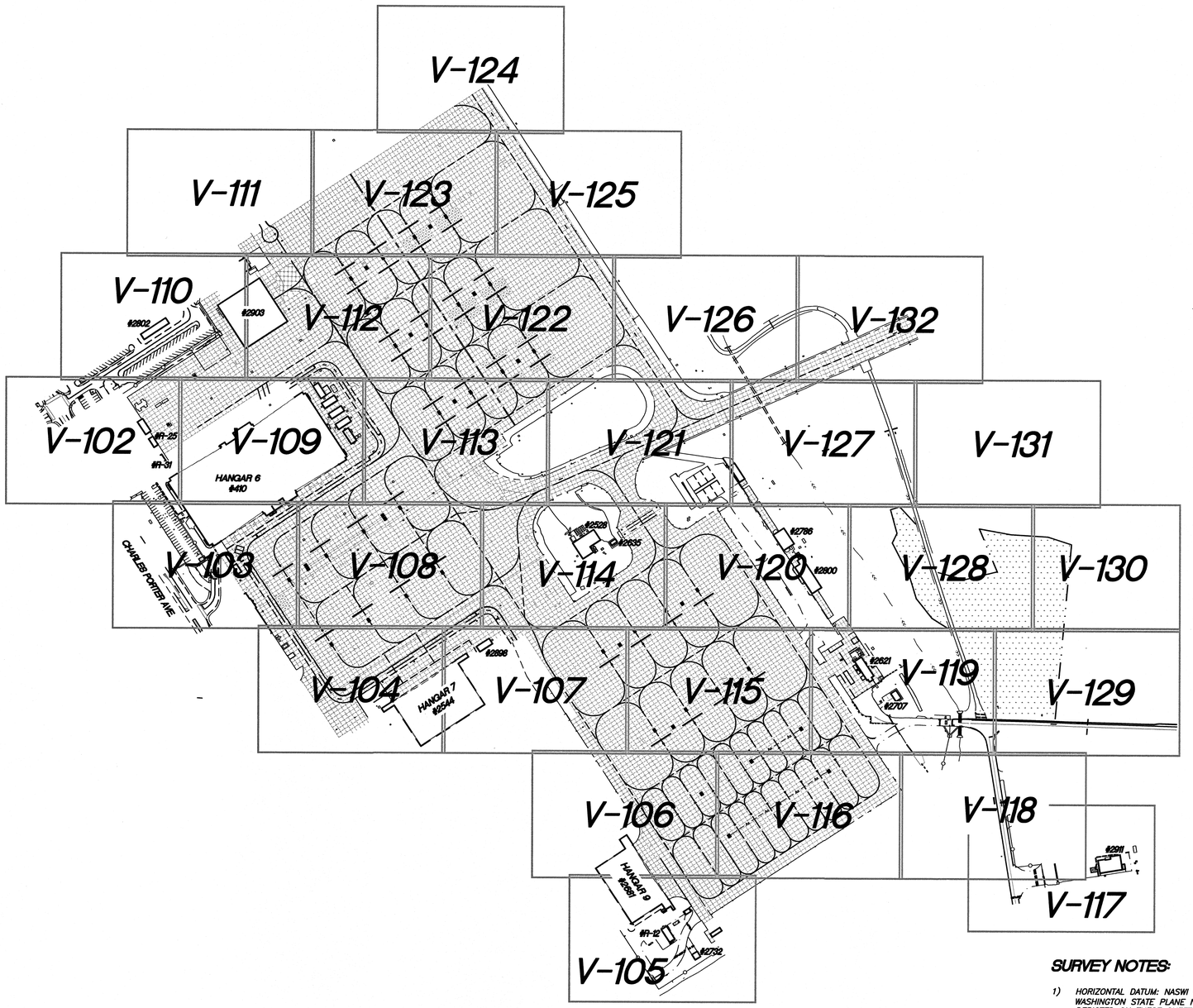
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
AULT FIELD – OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
HAZMAT – BUILDING 2800 INTERIOR

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030265
SHEET 11 OF 302
H-161

DRAWFORM REVISION: 10 MARCH 2009

| SURVEY CONTROL TABLE<br>HORIZONTAL DATUM: NASWI BASE DATUM<br>VERTICAL DATUM: NASWI BASE DATUM | | | | |
|---|---|---|---|---|
| POINT NO. | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 114 | 493241.1040 | 1194320.1940 | 32.89 | MON Z343 |
| 610 | 493005.3924 | 1193987.8182 | 48.81 | REBAR W/ ORANGE PLASTIC CAP |
| 611 | 493279.0284 | 1194228.7384 | 37.02 | NAIL W/ FLASHER |
| 612 | 493277.5970 | 1194454.7053 | 25.91 | REBAR W/ ORANGE PLASTIC CAP |
| 613 | 492992.5574 | 1194593.5737 | 51.13 | REBAR W/ ORANGE PLASTIC CAP |
| 614 | 492930.9200 | 1194847.5764 | 42.43 | REBAR W/ ORANGE PLASTIC CAP |
| 615 | 493083.0216 | 1194921.0771 | 45.36 | REBAR W/ ORANGE PLASTIC CAP |
| 616 | 492879.8571 | 1195274.6650 | 21.19 | NAIL W/ FLASHER |
| 617 | 493392.8483 | 1194881.3107 | 17.38 | REBAR W/ ORANGE PLASTIC CAP |
| 618 | 493407.9719 | 1194605.9990 | 20.28 | NAIL W/ FLASHER |
| 620 | 493449.8018 | 1194919.4185 | 17.19 | REBAR W/ ORANGE PLASTIC CAP |
| 621 | 493797.1243 | 1194593.1796 | 14.46 | SPIKE |
| 622 | 493134.2592 | 1195046.7612 | 19.14 | REBAR W/ ORANGE PLASTIC CAP |
| 623 | 493142.6450 | 1194612.9743 | 36.56 | NAIL W/ FLASHER |
| 624 | 494013.5693 | 1194928.6774 | 12.26 | REBAR W/ ORANGE PLASTIC CAP |
| 625 | 492996.2667 | 1195066.4550 | 36.31 | HUB W/TACK |
| 630 | 492240.4623 | 1197699.7472 | 12.85 | NAIL W/ FLASHER |
| 631 | 492827.5970 | 1197600.6526 | 12.98 | NAIL W/ FLASHER |
| 632 | 492777.1538 | 1198223.8776 | 17.66 | NAIL W/ FLASHER |
| 633 | 492432.7048 | 1198063.3200 | 16.46 | SPIKE |
| 650 | 492937.9484 | 1197116.5216 | 12.91 | SCRIBED 'X' |
| 651 | 492930.1825 | 1197324.9779 | 9.86 | SCRIBED 'X' |
| 652 | 492589.7997 | 1197347.0972 | 12.66 | SCRIBED 'X' |
| 653 | 492368.0811 | 1197032.4735 | 10.68 | SCRIBED 'X' |
| 654 | 492168.3266 | 1196706.9438 | 9.83 | SCRIBED 'X' |
| 655 | 492141.9071 | 1196486.4538 | 10.86 | SCRIBED 'X' |
| 656 | 492582.7202 | 1196432.9689 | 10.98 | SCRIBED 'X' |
| 657 | 492919.8678 | 1196201.8852 | 12.02 | SCRIBED 'X' |
| 658 | 493131.5772 | 1196029.1939 | 11.35 | SCRIBED 'X' |
| 659 | 492873.4616 | 1195600.3792 | 13.50 | SCRIBED 'X' |
| 660 | 493081.3997 | 1195363.9878 | 10.40 | SCRIBED 'X' |
| 661 | 492916.9864 | 1196820.6438 | 12.62 | SCRIBED 'X' |
| 662 | 493319.1220 | 1195165.1177 | 11.09 | SCRIBED 'X' |
| 663 | 493396.6748 | 1195100.3523 | 10.71 | SCRIBED 'X' |
| 664 | 493489.8731 | 1195390.9202 | 10.53 | SCRIBED 'X' |
| 665 | 493627.4118 | 1195601.5094 | 10.47 | SCRIBED 'X' |
| 666 | 493773.4402 | 1195618.1292 | 9.26 | SCRIBED 'X' |
| 667 | 493926.2395 | 1195516.3326 | 9.29 | SCRIBED 'X' |
| 668 | 493892.2670 | 1195427.5027 | 10.54 | SCRIBED 'X' |
| 670 | 493962.2541 | 1195243.7321 | 8.58 | SCRIBED 'X' |
| 671 | 494077.0292 | 1195408.8686 | 8.26 | SCRIBED 'X' |
| 672 | 494346.6062 | 1195271.4876 | 7.57 | SCRIBED 'X' |
| 673 | 494474.5927 | 1195596.8898 | 8.23 | SCRIBED 'X' |
| 674 | 494649.4047 | 1195863.6328 | 11.05 | SCRIBED 'X' |
| 675 | 494302.0358 | 1196107.5776 | 11.23 | SCRIBED 'X' |
| 676 | 494127.2837 | 1195863.9020 | 7.85 | SCRIBED 'X' |
| 677 | 493634.9934 | 1196065.7252 | 8.60 | REBAR W/ ORANGE PLASTIC CAP |
| 678 | 493819.4460 | 1196419.5454 | 9.50 | REBAR W/ ORANGE PLASTIC CAP |
| 679 | 493439.7587 | 1195702.8576 | 8.07 | SCRIBED 'X' |
| 680 | 493249.7836 | 1196366.0920 | 11.67 | SCRIBED 'X' |
| 681 | 493326.6627 | 1196726.5433 | 13.52 | SCRIBED 'X' |
| 682 | 493830.0737 | 1197138.6962 | 16.80 | REBAR W/ ORANGE PLASTIC CAP |
| 683 | 493368.6157 | 1196218.0701 | 10.72 | REBAR W/ ORANGE PLASTIC CAP |
| 684 | 493410.9980 | 1196433.2653 | 10.78 | REBAR W/ ORANGE PLASTIC CAP |
| 685 | 493720.5453 | 1196781.6507 | 14.69 | REBAR W/ ORANGE PLASTIC CAP |
| 686 | 493947.1644 | 1195664.3626 | 7.96 | SCRIBED 'X' |
| 687 | 493969.3681 | 1195041.9664 | 12.86 | REBAR W/ ORANGE PLASTIC CAP |
| 688 | 493739.7100 | 1195193.7141 | 10.55 | SCRIBED 'X' |
| 689 | 493918.1097 | 1195092.7138 | 8.36 | SCRIBED 'X' |
| 690 | 493927.8354 | 1195060.2158 | 8.32 | SCRIBED 'X' |
| 691 | 493853.1325 | 1195038.5041 | 8.80 | SCRIBED 'X' |
| 692 | 494096.8884 | 1197156.6630 | 21.93 | SPIKE |
| 913 | 493553.5870 | 1193965.2570 | 41.98 | MONUMENT |
| 33279 | 492254.9956 | 1196767.6345 | 10.66 | MONUMENT |
| 46330 | 493741.7660 | 1196719.8182 | 14.98 | BRASS MONUMENT |
| 46883 | 493945.1779 | 1197176.6350 | 23.49 | BRASS MONUMENT |
| 57080 | 492530.3625 | 1196586.5241 | 10.10 | MONUMENT |
| 80000 | 493281.2790 | 1196092.8685 | 10.80 | MONUMENT |




## EXISTING FEATURE SYMBOL LEGEND

- = EXISTING MONUMENT
- = SET REBAR & ORANGE PLASTIC CAP
- = SET HUB AND TACK
- = EXISTING P.K. NAIL
- = EXISTING NAIL/FLASHER
- x = EXISTING CHISELED "X"
- = EXISTING STORM DRAIN MANHOLE
- = EXISTING STORM DRAIN CLEANOUT
- = EXISTING AREA DRAIN
- = EXISTING CATCH BASIN
- DS = EXISTING DOWNSPOUT
- = EXISTING SANITARY SEWER MANHOLE
- = EXISTING SANITARY SEWER CLEANOUT
- = EXISTING GATE VALVE
- = EXISTING WATER METER
- W = EXISTING WATER WELL
- = EXISTING FIRE HYDRANT
- = EXISTING SPRINKLER
- = EXISTING BLOWOFF
- HB = EXISTING HOSE BIB OR COMPRESSED AIR BIB WHERE NOTED
- WM = EXISTING WATER MANHOLE
- FD = EXISTING FIRE STANDPIPE
- PIV = EXISTING POST INDICATOR VALVE
- = EXISTING BOLLARD OR COLUMN/POST AS NOTED
- = EXISTING GROUNDING ROD
- STOP = EXISTING STOP SIGN
- = EXISTING STREET SIGN
- TB = EXISTING TEST BORE
- = EXISTING AIRCRAFT TIE DOWN ANCHOR
- = EXISTING POWER POLE
- = EXISTING STREET LIGHT POLE
- = EXISTING YARD LIGHT
- = EXISTING GROUND GUY
- E = EXISTING ELECTRIC HANDHOLD
- = EXISTING ELECTRICAL VAULT/MANHOLE
- = EXISTING ELECTRICAL PEDESTAL/RISER
- E.M. = EXISTING ELECTRIC METER/SWITCH
- = EXISTING TELEPHONE PEDESTAL/RISER
- = EXISTING COMMUNICATIONS PEDESTAL/RISER
- = EXISTING GAS METER
- = EXISTING NATURAL GAS VALVE
- = EXISTING CARSONITE POST
- A = EXISTING COMPRESSED AIR MANHOLE
- AD = EXISTING COMPRESSED AIR DRAIN
- = EXISTING COMPRESSED AIR VALVE
- = EXISTING PINE/SPRUCE TREE
- = EXISTING LANDSCAPE TREE/UNKNOWN SPECIES TREE
- = EXISTING BUSH
- 15"ø = DIAMETER OF EXISTING TREE
- x500.0 = SPOT ELEVATION ON EXISTING GROUND

## SURVEY NOTES:

1) HORIZONTAL DATUM: NASWI BASE HORIZONTAL DATUM (NAD 83/91, WASHINGTON STATE PLANE NORTH ZONE). ONLY HORIZONTAL CONTROL POINTS DEPICTED ON THESE SHEETS SHOULD BE USED FOR ADDITIONAL RELATED SURVEYING AND CONSTRUCTION LAYOUT / STAKING (SEE CONTROL POINT TABLE FOR COORDINATES).
2) VERTICAL DATUM: NASWI BASE VERTICAL DATUM (NGVD 29 (MSL). ONLY VERTICAL CONTROL POINTS DEPICTED ON THESE SHEETS SHOULD BE USED FOR ADDITIONAL RELATED SURVEYING AND CONSTRUCTION LAYOUT / STAKING (SEE CONTROL POINT TABLE FOR ELEVATIONS).
3) SUB-SURFACE UTILITY LOCATES PROVIDED BY APS LOCATING, INC. & SUPPLEMENTED WITH AVAILABLE RECORD PLANS / AS-BUILTS.
4) FIELD SURVEY PERFORMED IN MAY & JUNE OF 2014. (CHARLES PORTER AVENUE UNDER CONSTRUCTION AT THE TIME OF THE SURVEY)

OVERALL KEY PLAN
SCALE: 1" = 100'-0"

GRAPHIC SCALE
(us survey feet)
0 100
100 50 200
1 inch = 100 feet

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|

NAVFAC

ADAM J. NELSON, STATE OF WASHINGTON, 19962, REGISTERED PROFESSIONAL LAND SURVEYOR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A/E INFO


APPROVED
FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|

<<CPM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<OIC>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

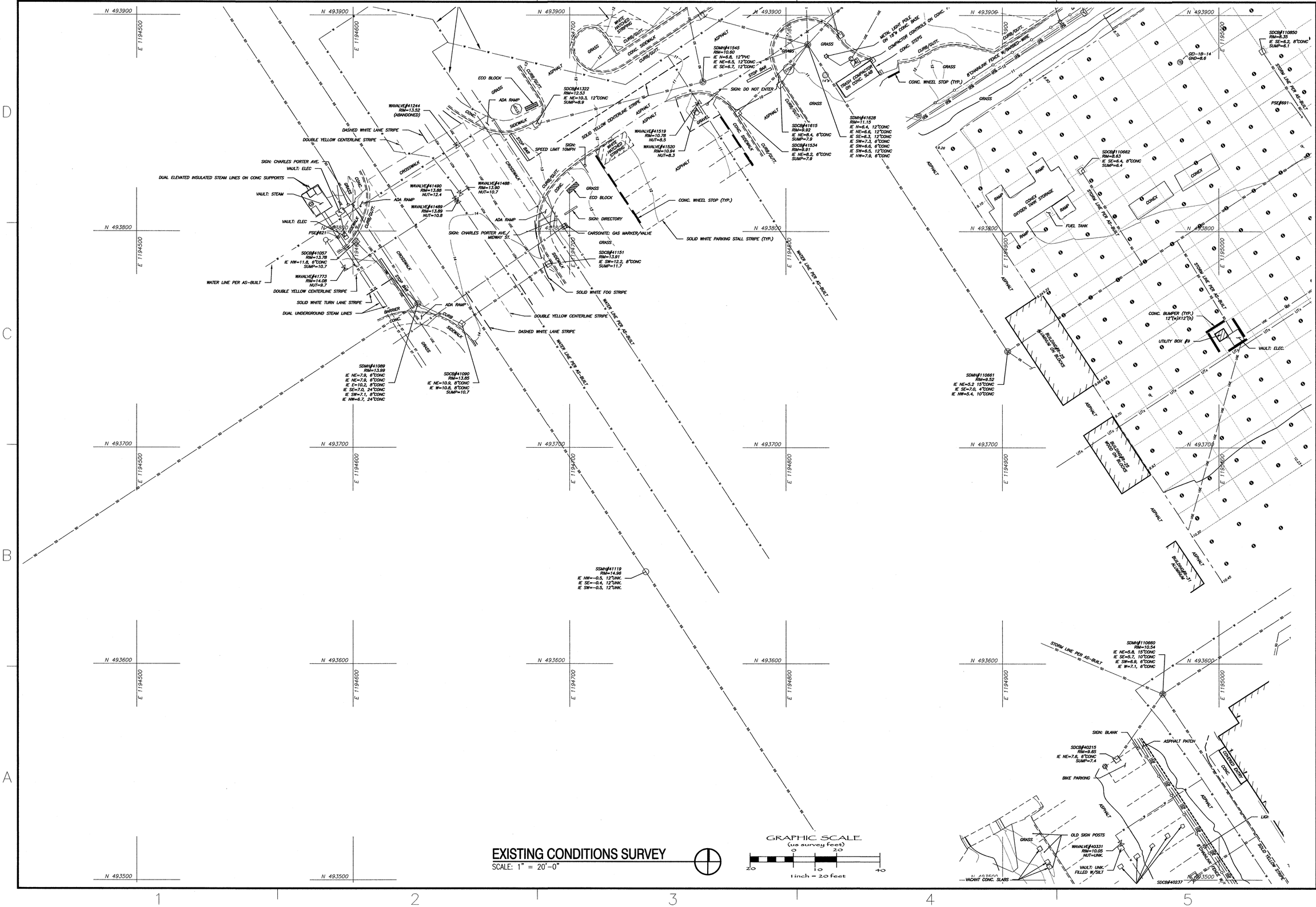
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

# OVERALL KEY PLAN / SURVEY INFO.

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030266
SHEET 12 OF 302

V-101




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AUX FIELD - OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

EPROJECT NO.:

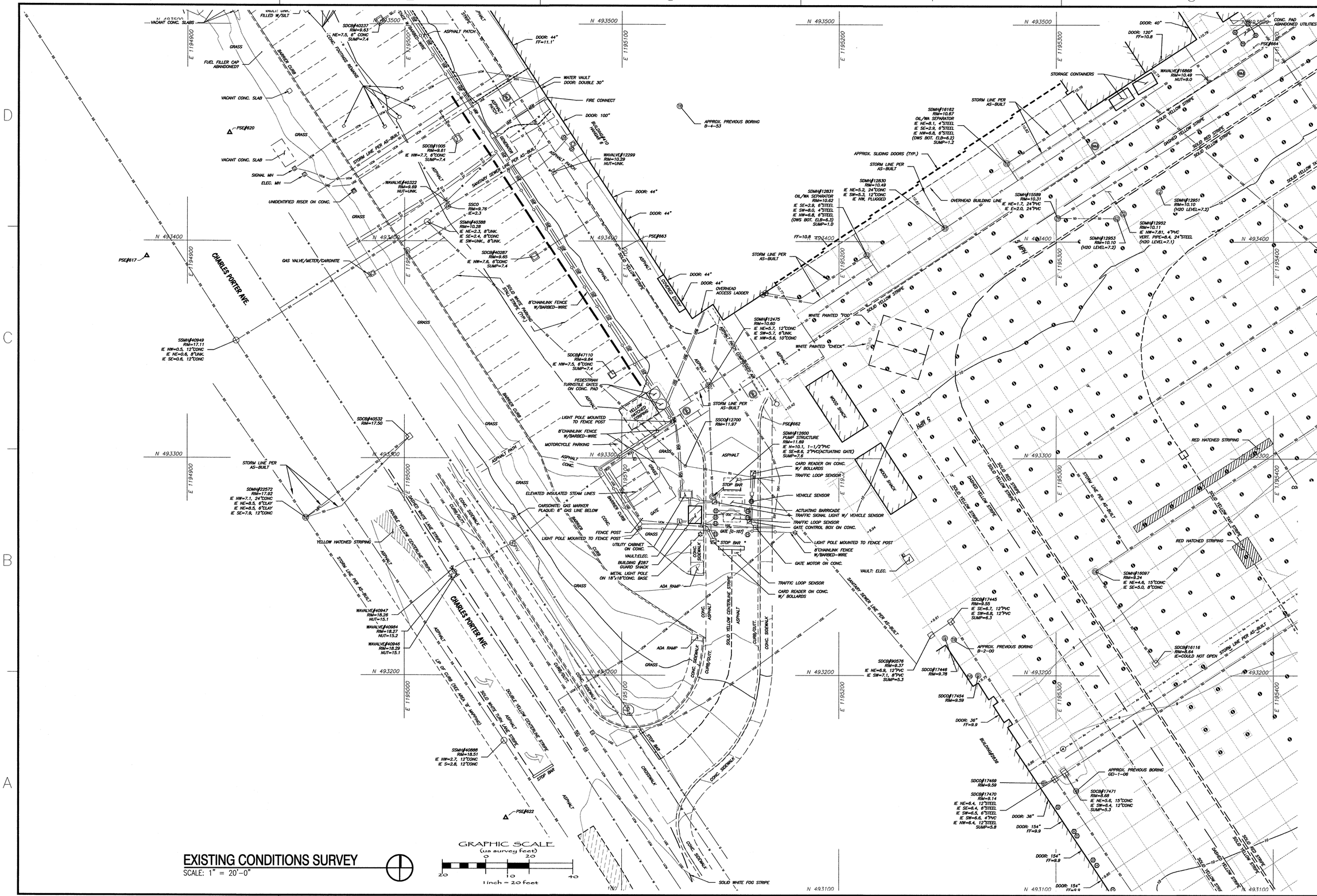
CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030267

SHEET 13 OF 302

V-102

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|




## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| APPR | DATE | DESCRIPTION | STM |
|---|---|---|---|
| | | | |

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14962
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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<OIC>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

| | |
|---|---|
| SCALE: | AS NOTED |
| EPROJECT NO.: | |
| CONSTR. CONTR. NO. | N44255-15-C-6003 |
| NAVFAC DRAWING NO. | 16030268 |
| SHEET | 14 OF 302 |

V-103

# EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

DOOR: 154" FF=9.9
DOOR: DOUBLE 36" FF=9.9
SDCB#17734 RIM=9.77 IE SE=7.0, 6"PVC IE NW=7.8, 6"PVC SUMP=5.4
SDCB#17747 RIM=10.03
SDCB#91115 IE=8.5 6"PVC
PSE#660
WATER COOLER ON CONC.
GENERATOR ON CONC.
GROUNDING ROD (2x)
TRANSFORMER ON CONC.
COVERED CONTAINMENT DIKE W/USED FUEL/OIL TANK & OIL WATER SEPARATOR IN
SDCULV#83275 IE=13.0 2"STEEL
SDCULV#83274 IE=12.0 2"STEEL
COVERED CONTAINMENT DIKE W/STEEL TANK "SPENT DE-ICING FLUID" 12"WIDE×30"TALL CONC. CONTAINMENT WALL
GRASS
APPROX. PREVIOUS BORING B-1-71
APPROX. PREVIOUS BORING B-1-00
ABANDONED LIGHT CAN
U.G. ELEC. PER AS-BUILTS (ABANDONED)
RED HATCHED STRIPING
SOLID YELLOW TAXI STRIPE
SOLID YELLOW STRIPE
SOLID RED STRIPE
DASHED YELLOW STRIPE
5 MPH
U.G. ELEC. PER AS-BUILTS
U.G. COMPRESSED AIR PER AS-BUILTS
ASPHALT
PSE#659
6" CONC. EXTRUDED CURB
APPROX. PREVIOUS BORING GEI-2-06
APPROX. PREVIOUS BORING GEI-4-06
APPROX. PREVIOUS BORING GEI-5-06
SDCB#83619 RIM=13.64 IE NE=7.4, 10"CONC IE SE=7.2, 6"STEEL SUMP=6.7
SDCB#83017 RIM=12.80 IE NE=8.4, 10"CONC IE SW=8.3, 10"CONC SUMP=8.3
SDCB#82946 RIM=12.78 IE SW=9.0, 10"CONC SUMP=9.0
SDCB#82604 RIM=11.91 IE NE=9.1, 12"CONC SUMP=8.9
SDCB#82330 RIM=11.54 IE NE=8.2, 12"CONC IE SW=8.2, 12"CONC SUMP=8.0
SDMH#82264 RIM=12.07 IE NE=7.3, 24"CONC IE S=7.5, 18"CONC IE SW=7.5, 18"CONC SUMP=7.1
SDMH#82263 RIM=12.08 IE SE=8.7, 15"PVC IE SW=8.3, 12"CONC SUMP=8.3
SDMH#82262 RIM=12.11 IE NE=8.3, 18"CONC IE SW=8.4, 10"CONC SUMP=8.1
SDMH#82244 RIM=12.29 IE NE=8.5, 10"CONC IE SW=8.5, 10"CONC IE W=9.1, 12"CONC SUMP=8.3
SDMH#82243 RIM=12.43 IE E=9.6, 12"CONC SUMP=1.9
WAVALVE#82242 RIM=12.23 NUT=8.9
SDCB#83618 RIM=10.72 IE NW=8.7, 10"CONC SUMP=8.6
FIRE ALARM MOUNTED TO BLDG.
WATER LINE PER AS-BUILT
OVERHEAD BUILDING LINE
APPROX. SLIDING DOORS (TYP.)
BUILDING#2244 HANGAR 7
FF=12.1


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A/E INFO


APPROVED
FOR COMMANDER NAVFAC 3/2/15
ACTIVITY: NAS WHIDBEY ISLAND
SATISFACTORY TO DATE
DES DRW RMT CHK AJN
<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND OAK HARBOR, WA

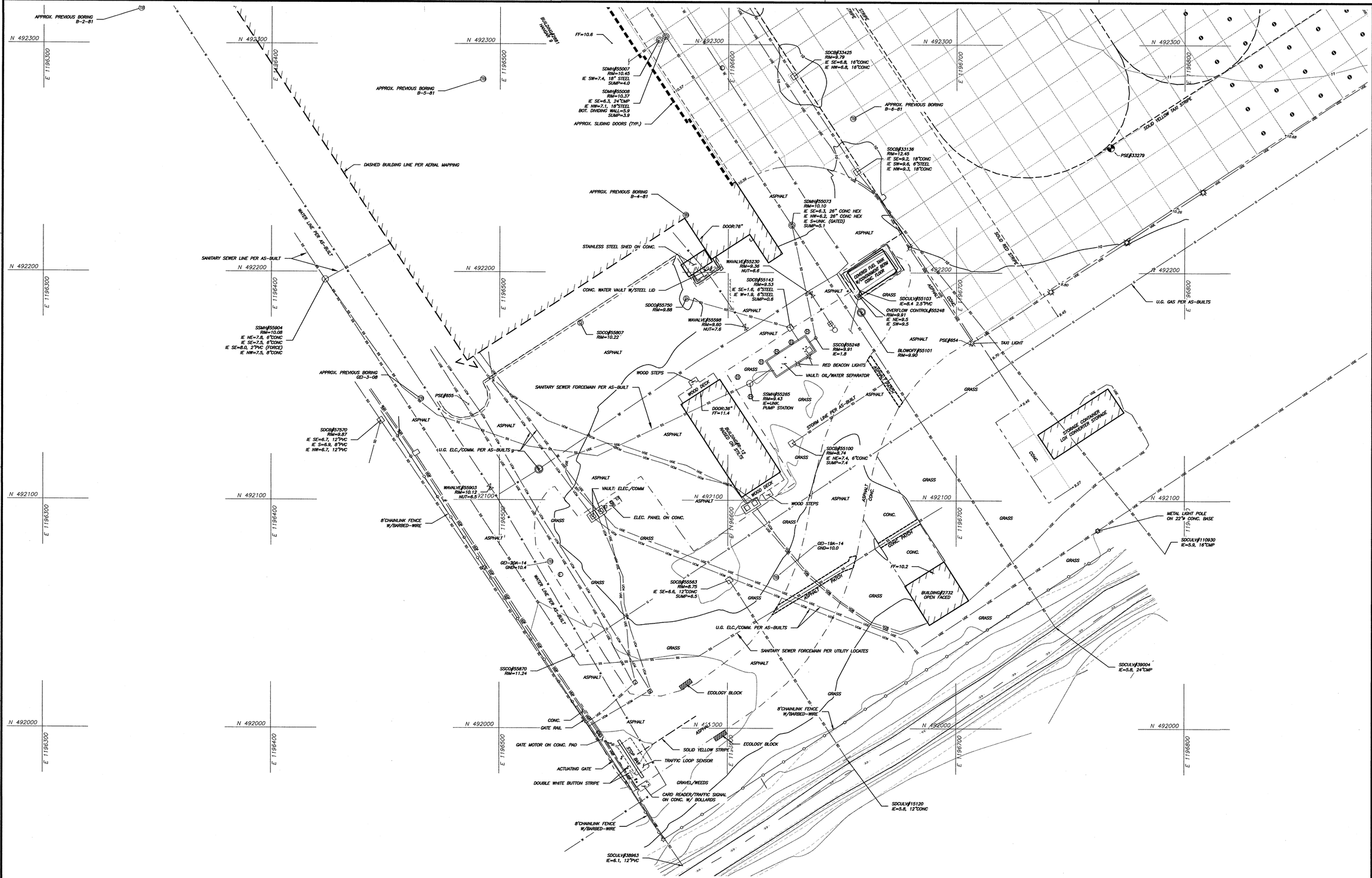
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030269
SHEET 15 OF 302

V-104

APPR | DATE | DESCRIPTION | SYM




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

NAVFAC

ADAM J NELSEN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL LAND SURVEYOR
19620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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|

<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<OOO>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD ~ OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030270
SHEET 16 OF 302

V-105

N 492700 E 1196200
N 492700 E 1196300
N 492700 E 1196400
N 492700 E 1196500
N 492700 E 1196600
N 492700 E 1196700
N 492600 E 1196200
N 492600 E 1196300
N 492600 E 1196400
N 492600 E 1196500
N 492600 E 1196600
N 492600 E 1196700
N 492500 E 1196200
N 492500 E 1196300
N 492500 E 1196400
N 492500 E 1196500
N 492500 E 1196600
N 492500 E 1196700
N 492400 E 1196200
N 492400 E 1196300
N 492400 E 1196400
N 492400 E 1196500
N 492400 E 1196600
N 492400 E 1196700

SOLID YELLOW TAXI STRIPE
SOLID RED STRIPE
U.G. COMPRESSED AIR PER AS-BUILTS
U.G. ELEC./COMM. PER AS-
U.G. ELEC. PER AS-BUILTS
WATER LINE PER AS-BUILT
DOOR:76"
PSE#656
PSE#57080
UTILITY BOX #45
CONC. BUMPER (TYP.) 12"(w)X12"(h)
WAVALVE#56150 RIM=9.70 NUT=7.0
WAVALVE#56151 RIM=9.78 NUT=5.1
SDCB#56024 RIM=9.76 IE SE=6.9, 16"CONC
SDCB#56025 RIM=9.79 IE SE=6.9, 16"CONC IE W=7.2, 6"STEEL IE NW=6.9, 16"CONC
SDCB#33638 RIM=9.80 IE SE=6.8, 16"CONC IE NW=6.8, 16"CONC
SDCB#33617 RIM=9.77 IE SE=6.7, 16"CONC IE NW=6.7, 16"CONC
SDMH#55962 RIM=10.35 IE SE=7.3, 18"STEEL BOT. DIVIDING WALL=5.9 SUMP=3.9
SDMH#55961 RIM=10.42 IE SW=7.3, 18" STEEL
APPROX. PREVIOUS BORING B-1-81
APPROX. PREVIOUS BORING B-12-81
16" DI

## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | | | |

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ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |

BRANCH MANAGER
CHIEF ENG/ARCH
<<OIC>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD – OAK HARBOR, WA
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030271
SHEET 17 OF 302

V-106

SOLID YELLOW STR.
SDCB#81411
RIM=11.02
IE 7.5, 8"CMP
ABANDONED LIGHT CAN
SDCB#81727
RIM=11.19
IE NE=8.0, 12"CONC
IE SW=8.0, 12"CONC
SUMP=7.7
SOLID YELLOW STRIPE
BUILDING#1898
STEEL STEPS
DOOR
FF=14.7
FIRE ALARM MOUNTED TO BLDG.
SDMH#81734
RIM=12.04
IE NE=6.8, 24"CONC
IE S=7.1, 18"CONC
IE SW=6.9, 24"CONC
SUMP=6.6
APPROX. SLIDING DOORS (TYP.)
SOLID YELLOW STRIPE
SOLID RED STRIPE
SOLID YELLOW STRIPE
SDCB#13661
RIM=11.63
SDCB#103571
RIM=11.92
IE NE=3.6, 36"CONC
IE SE=4.1, 18"PVC
IE S=5.1, 12"PVC
IE SW=5.1, 10"CMP (CATV)
SUMP=3.7
PSE#852
STORM LINE PER AS-BUILT
STORM LINE PER AS-BUILT
WATER LINE PER AS-BUILT
SOLID YELLOW STRIPE
WATER LINE PER AS-BUILT
STORM LINE PER AS-BUILT
SDCB#56226
RIM=10.83
IE NE=6.4, 15"CONC
IE NW=6.3, 15"CONC
SUMP=5.9
RED HATCHED
UTILITY BOX
CONC. BUMPER (TYP.)
12"(w)x12"(h)
RED HATCHED STRIPING
SOLID YELLOW 2WU STRIPE
RED HATCHED STRIPING
— DASHED BUILDING LINE PER AERIAL MAPPING

## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
20 0 20
10
40
1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | | | |

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21964
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A/E INFO


APPROVED
FOR COMMANDER NAVFAC 3/2/15
ACTIVITY
NAS WHIDBEY ISLAND
SATISFACTORY TO DATE
DES DRW RMT CHK AJN
<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030272
SHEET 18 OF 302

V-107

## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

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41962
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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES | DRW RMT | CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

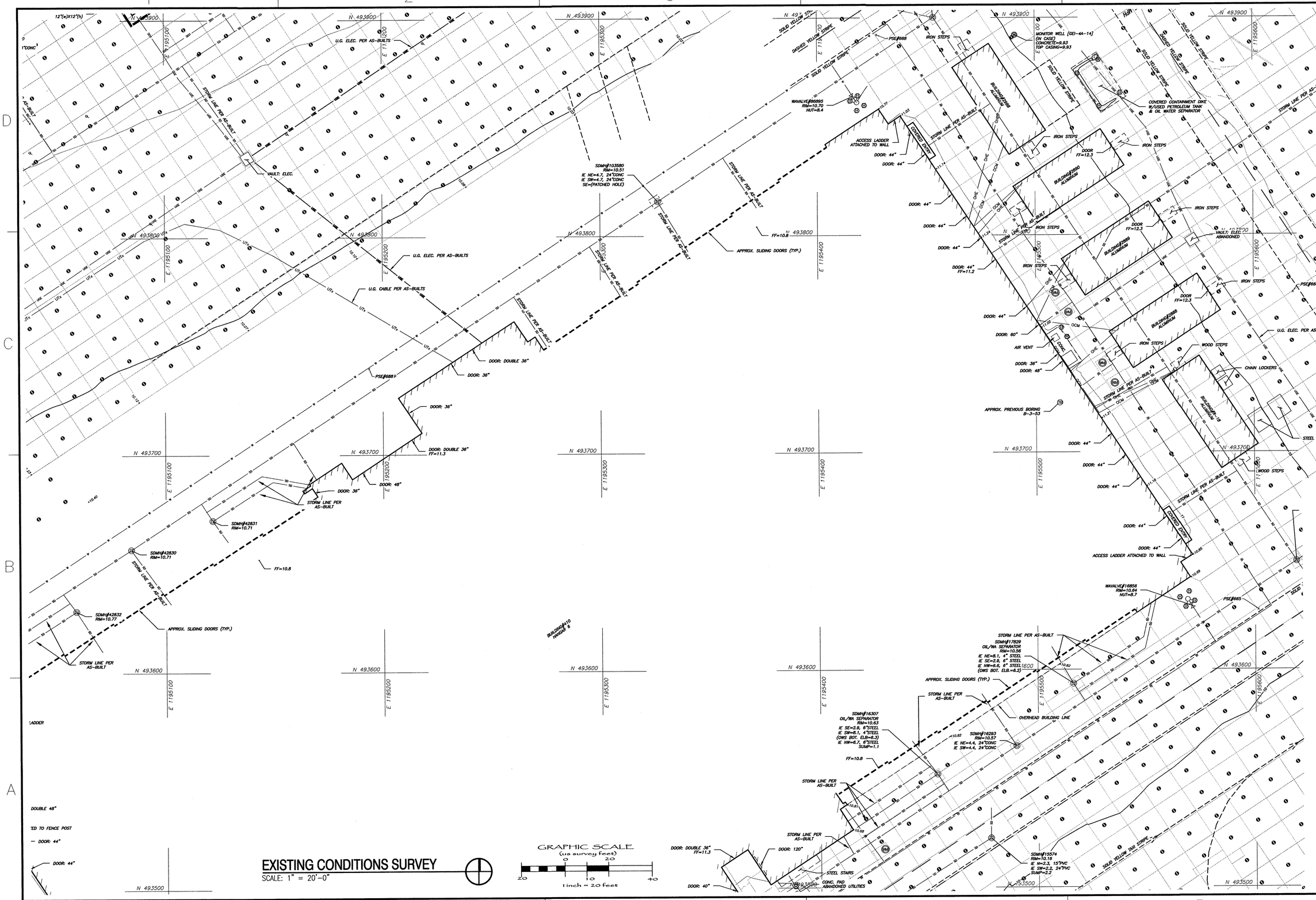
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030273

SHEET 19 OF 302

V-108




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
20 0 20 40
1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

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STATE OF WASHINGTON
19622
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www.psesurvey.com


A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES | DRW RMT | CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

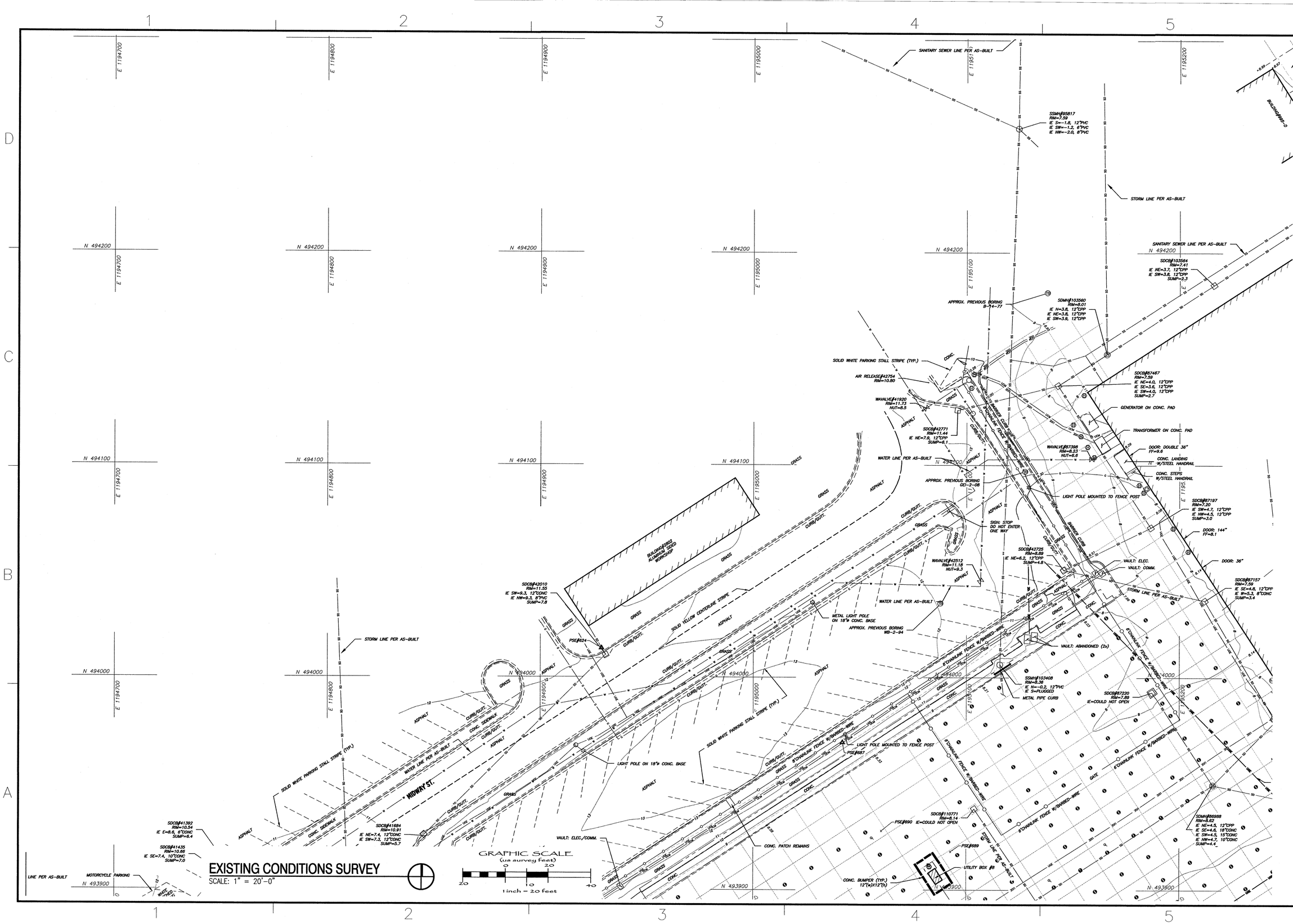
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030274

SHEET 20 OF 302

V-109




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 0 40
1inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | | | |

NAVFAC

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APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<>>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

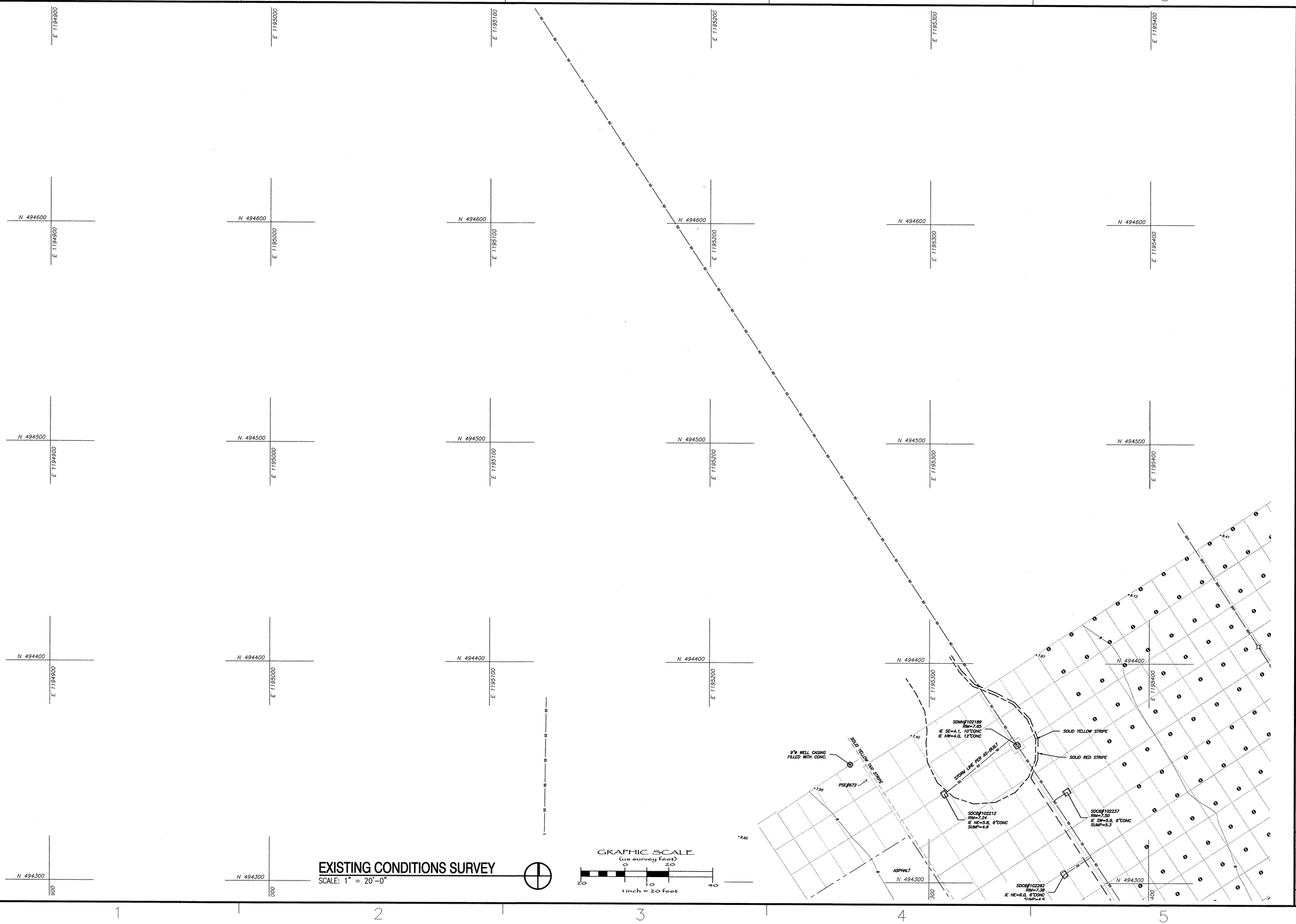
NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
AULT FIELD - OAK HARBOR, WA
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

| | |
|---|---|
| SCALE: | AS NOTED |
| EPROJECT NO. | |
| CONSTR. CONTR. NO. | N44255-15-C-6003 |
| NAVFAC DRAWING NO. | 16030275 |
| SHEET | 21 OF 302 |

V-110




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|
| | | | |

NAVFAC

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22962
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FAX: 360.671.4685
www.pacsurvey.com
A/E INFO


APPROVED

FOR COMMANDER NAVFAC 3/12/15

ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XXX>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

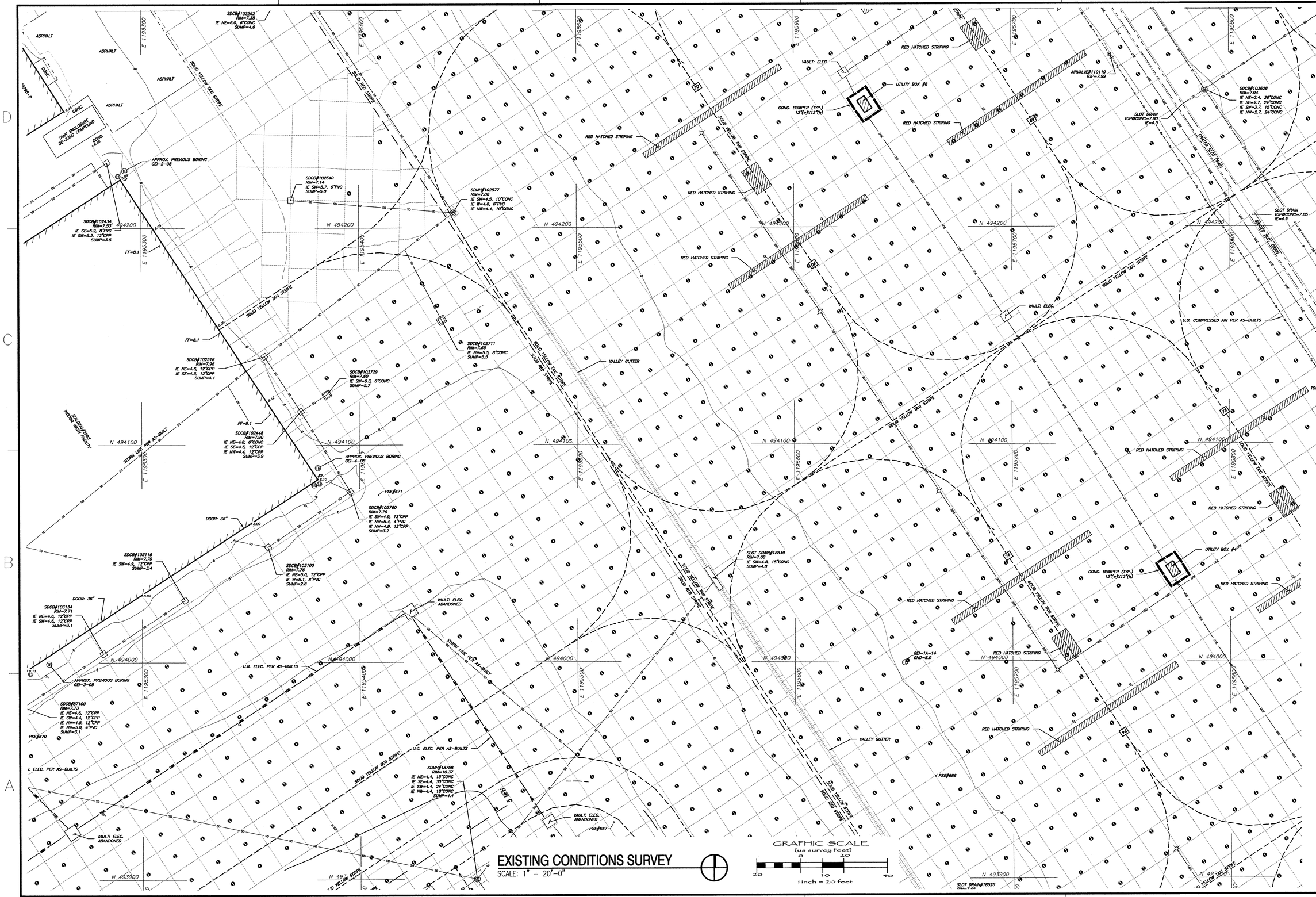
EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030276

SHEET 22 OF 302

V-111




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE (us survey feet)

1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

ADAM J NELSON STATE OF WASHINGTON 49622 REGISTERED PROFESSIONAL LAND SURVEYOR


PACIFIC SURVEY & ENGINEERING, INC.
1812 CORNWALL AVENUE
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PHONE: 360.671.7387
FAX: 360.671.4685
www.psesurvey.com


A/E INFO

APPROVED

FOR COMMANDER NAVFAC 3/7/15

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES | DRW RMT | CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

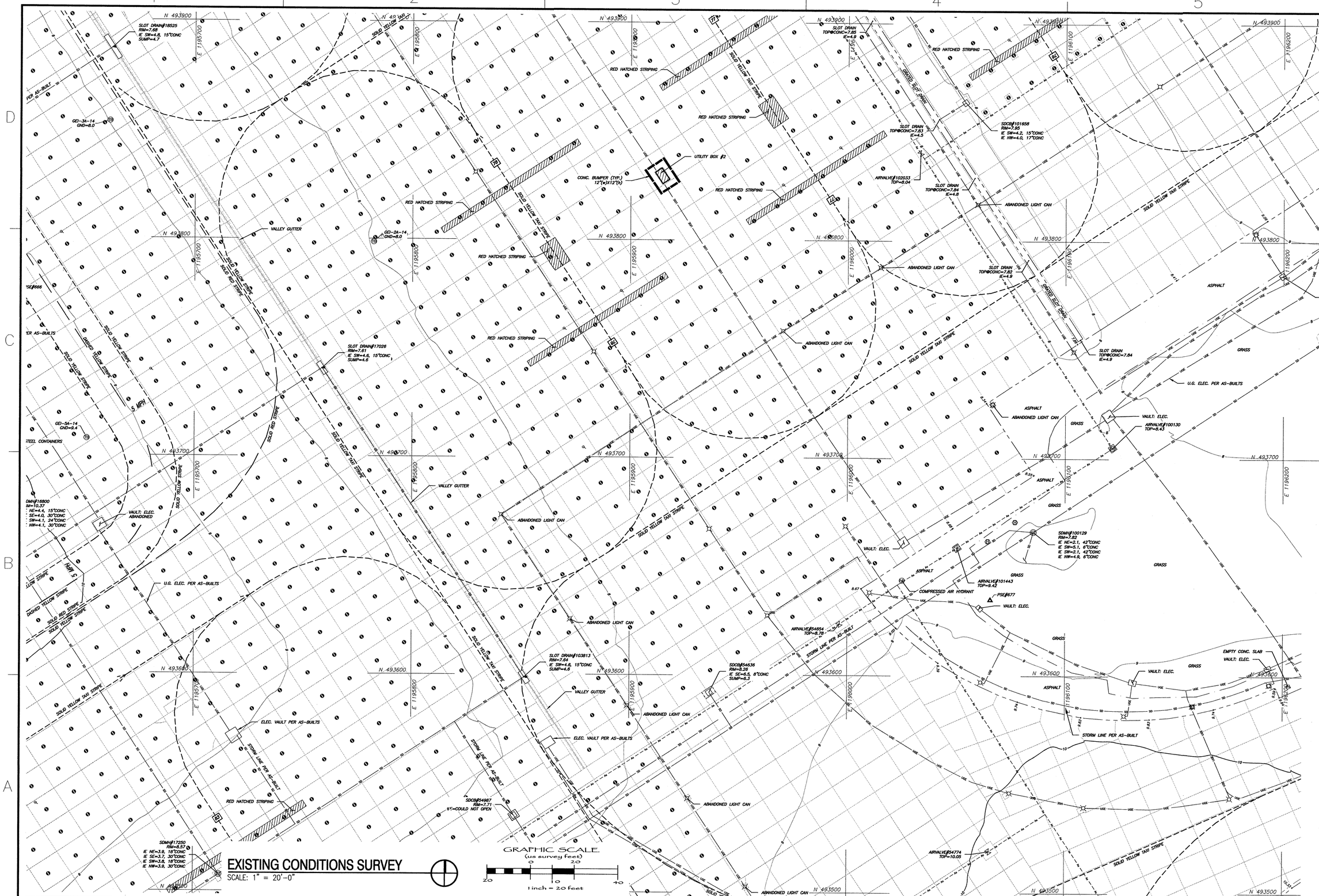
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030277

SHEET 23 OF 302

V-112




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

ADAM J NELSON
STATE OF WASHINGTON
49962
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PROFESSIONAL LAND SURVEYOR
2/13/15


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3/2/15

FOR COMMANDER NAVFAC

ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XX>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030278

SHEET 24 OF 302

V-113

U.G. COMPRESSED AIR PER AS-BUILTS
LIGHT CAN
SOLID DOUBLE YELLOW STRIPING
ABANDONED LIGHT CAN
U.G. ELC./COMM. PER AS-BUILTS
VAULT: COMPRESSED AIR
SOLID YELLOW TAXI STRIPE
AIRVALVE#70634 TOP=11.01
PSE#683
ASPHALT.
GRASS.
CONC. GUTTER
STORM LINE PER AS-BUILT
AIR TANKS (8x) ON CONC. PAD (TYP.)
STORAGE LOCKER
VAULT: CONC. W/ STEEL LID COMPRESSED AIR
COMPRESSED AIR LINE COULD NOT TRACE
AIRVALVE#54285 TOP=9.15
ELEVATED PIPE NETWORK INSIDE TANK FARM AREA NOT LOCATED
LARGE ELEVATED STEEL CONTROLS CABINET
CONC.
CABINET: COMPRESSED AIR
DOOR:120" FF=9.5
DOOR:36" FF=9.5
BUILDING #2528
VAULT: ELEC.
TRANSFORMER ON CONC.
BOX MOUNTED TO WALL VARIOUS WIRING INSIDE
CABINET: ELEC. ON CONC.
METAL LIGHT POLE ON 18"ø CONC. BASE
VAULT: ELEC./COMM.
SDMH#53865 OIL/WA SEPARATOR RIM=9.40 IE E=4.5, 4"PVC (OWS BOT. ELB.=4.1) IE W=4.2, 4"PVC
COMPRESSED AIR STRUCTURE COULD NOT OPEN
U.G. COMPRESSED AIR PER AS-BUILTS
SDMH#80380 RIM=12.22 IE E=6.3, 8"CMP IE SW=6.3, 8"CMP SUMP=6.2
PSE#80000
ABANDONED LIGHT CAN
SOLID YELLOW TAXI STRIPE
YELLOW TAXI STRIPE
SDCB#80397 RIM=11.08 IE E=6.3, 18"CONC IE SW=6.4, 15"CONC SUMP=6.1
HAM 5
PSE#658
SOLID YELLOW TAXI STRIPE
STORM LINE PER AS-BUILT
DASHED YELLOW
SDMH#80186 RIM=12.04 IE NE=5.0, 24"CONC IE E=5.1, 24"CONC IE W=5.4, 18"CONC SUMP=4.8
AIRVALVE#53881 TOP=9.88
AIRVALVE#53882 TOP=10.04
GEI-18A-14 GND=10.9
STORM VAULT#53886 IE NE=4.5, 24"CONC IE SW=4.4, 24"CONC
VAULT: ELEC.
PSE#680
SDMH#53780 RIM=9.12 IE N=3.0, 36"CONC IE SE=UNK, 4"PVC IE S=3.1, 36"CONC IE NW=3.9, 12"CONC SUMP=3.1
WATER VAULT W/ GRATE LID
PSE#684
ANTENNA
4" ANGLE IRON RINSE STRUCTURE SUPPORT
BUILDING #2535 BELOW GRADE
DOOR: 48" FF=9.7
DRAIN TOP=9.62
CONC. STAIRS
6" CONC. WALL W/ HANDRAIL
WAVALVE#53950 RIM=9.24 NUT=8.0
ELEC. BOX ON CONC.
WATER LINE PER AS-BUILT
SDMH#53856 RIM=9.23 IE N=3.2, 36"CONC IE S=3.2, 36"CONC IE W=4.5, 4"CONC
VAULT: ABANDONED
SDMH#53855 RIM=7.74 IE NE=5.9, 6"CONC IE SE=6.2, 10"CONC IE NW=6.3, 10"CONC SUMP=5.8
SDMH#53897 RIM=11.72 IE N=3.3, 36"CONC IE S=3.3, 36"CONC IE SW=3.8, 24"CONC IE W=5.4, 8"CMP
6" "I" SECTION STEEL POST W/ATTACHED WATER LINE (RINSE STRUCTURE)
SOLID YELLOW TAXI STRIPE
SPRINKLER HEAD IN SLOT DRAIN (TYP.)
SLOT DRAIN TOP@CONC.=11.31 IE=10.3
SLOT DRAIN TOP@CONC.=11.28 IE=10.3
SLOT DRAIN TOP@CONC.=11.15 IE=9.8
SLOT DRAIN TOP@CONC.=11.13 IE=9.7
SLOT DRAIN TOP@CONC.=10.96 IE=9.2
SLOT DRAIN TOP@CONC.=10.98 IE=9.2
SLOT DRAIN TOP@CONC.=10.97 IE=9.2
CONC. SLOT DRAIN W/ STEEL GRATE
SLOT DRAIN TOP@CONC.=11.31 IE=10.3
SLOT DRAIN TOP@CONC.=11.16 IE=9.8
WATER LINE PER AS-BUILT
U.G. ELEC. PER AS-BUILTS
U.G. ELC./COMM. PER AS-BUILTS
U.G. COMPRESSED AIR PER AS-BUILTS
RED HATCHED STRIPING
N 493500
N 493400
N 493300
N 493200
E 1196000
E 1196100
E 1196200
E 1196300
E 1196400
E 1196500
E 1196600

## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
20 0 10 20 40
1 inch = 20 feet

| APPR | DATE | STM | DESCRIPTION |
|---|---|---|---|

NAVFAC

ADAM J NELSON — STATE OF WASHINGTON — 19621 — REGISTERED PROFESSIONAL LAND SURVEYOR


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www.psesurvey.com
A/E INFO


APPROVED 3/2/15
FOR COMMANDER NAVFAC

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XXX>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA.

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

| | |
|---|---|
| SCALE: | AS NOTED |
| EPROJECT NO.: | |
| CONSTR. CONTR NO. | N44255-15-C-6003 |
| NAVFAC DRAWING NO. | 16030279 |
| SHEET | 25 OF 302 |

V-114

# EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
20 0 10 20 40
1 inch = 20 feet


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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XXX>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
ALT FIELD - OAK HARBOR, WA

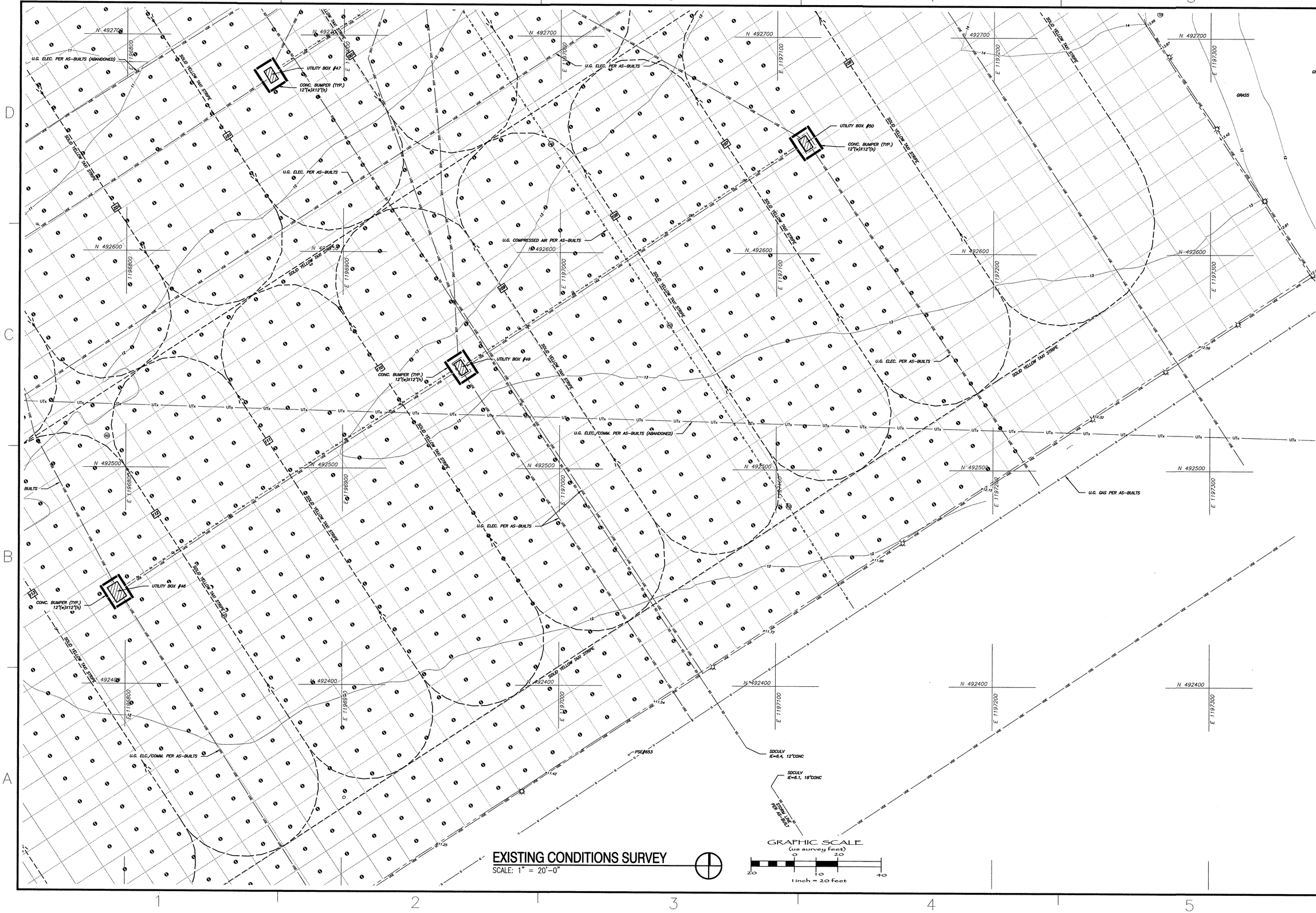
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030280
SHEET 26 OF 302

V-115

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|




| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

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www.pseusurvey.com
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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XXX>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

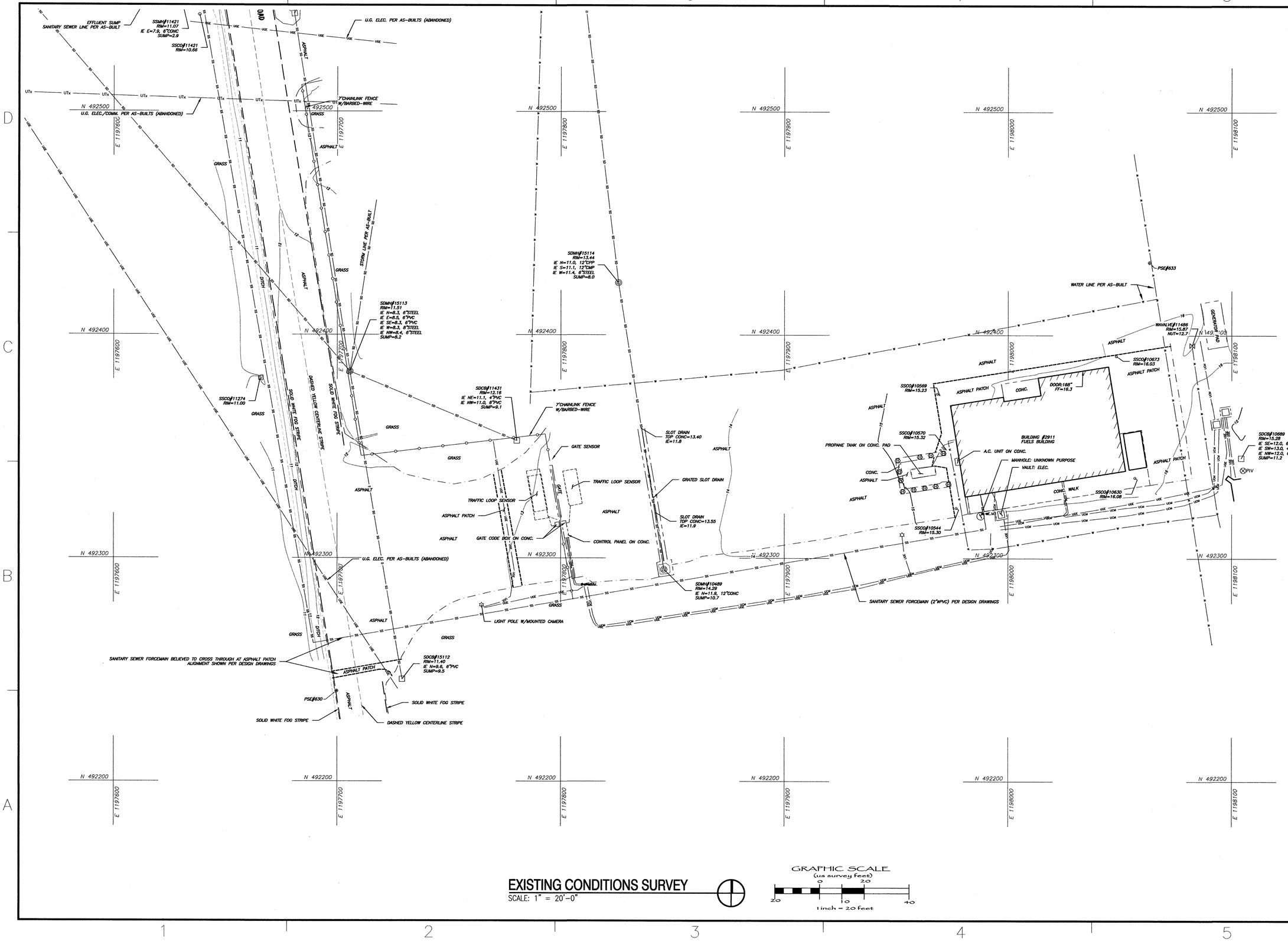
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

| | |
|---|---|
| SCALE: | AS NOTED |
| EPROJECT NO.: | |
| CONSTR. CONTR. NO. | N44255-15-C-6003 |
| NAVFAC DRAWING NO. | 16030281 |
| SHEET | 27 OF 302 |

V-116




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| APPR | DATE | DESCRIPTION | STM |
|---|---|---|---|
| | | | |

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STATE OF WASHINGTON
19622
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APPROVED
FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES DRW RMT CHK AJN
<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030282
SHEET 28 OF 302

V-117

U.G. GAS PER AS-BUILTS

GRASS

CONC. ECO. BLOCKS (TYP.)

PSE#652

STORM LINE PER AS-BUILT

SDMH#15111
RIM=9.77
IE NE=8.2, 12"CONC
IE SW=8.1, 12"CONC
SUMP=7.8

SDMH#10813
RIM=11.26
IE SE=9.1, 6"STEEL
IE SW=9.0, 6"STEEL
IE NW=9.2, 6"STEEL
SUMP=8.7

6" PERFORATED
(STORM LINE PER AS-BUILT)

APPROX. PREVIOUS BORING
GEI-1-13

SDCULV#11239
IE=10.2, 14"(DAMAGED)

SDCULV#11243
IE=10.1, 14"(DAMAGED)

SANITARY SEWER LINE PER AS-BUILT

SDCB#10812
RIM=11.07
IE SE=9.7, 6"STEEL
IE NW=8.7, 6"PVC
SUMP=8.7

EFFLUENT SUMP
SANITARY SEWER LINE PER AS-BUILT

SSMH#11421
RIM=11.07
IE E=7.9, 6"CONC
SUMP=2.9

SSCO#11421
RIM=10.66

U.G. ELEC. PER AS-BUILTS (ABANDONED)

U.G. ELEC./COMM. PER AS-BUILTS (ABANDONED)

7'CHAINLINK FENCE
W/BARBED-WIRE

KITTY HAWK ROAD

SOLID WHITE FOG STRIPE

DASHED YELLOW CENTERLINE STRIPE

ASPHALT

ASPHALT PARKING

DITCH

STORM LINE PER AS-BUILT

SDMH#15113
RIM=11.51
IE N=8.3, 6"STEEL
IE E=8.5, 6"PVC
IE SE=8.3, 6"PVC
IE W=8.3, 6"STEEL
IE NW=8.4, 6"STEEL
SUMP=8.2

SDMH#15114
RIM=13.44
IE N=11.0, 12"CPP
IE S=11.1, 12"CMP
IE W=11.4, 6"STEEL
SUMP=8.0

SSCO#11274
RIM=11.00

SDCB#11431
RIM=12.16
IE NE=11.1, 4"PVC
IE NW=11.0, 6"PVC
SUMP=9.1

GATE SENSOR

TRAFFIC LOOP SENSOR

GATE

SLOT DRAIN
TOP CONC=13.40
IE=11.8

GRATED SLOT DRAIN

SLOT DRAIN
TOP CONC=13.55
IE=11.9

ASPHALT PATCH

GATE CODE BOX ON CONC.

CONTROL PANEL ON CONC.

PROPANE

N 492700
N 492600
N 492500
N 492400
E 1197400
E 1197500
E 1197600
E 1197700
E 1197800
E 1197900

## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| | | | |
|---|---|---|---|
| STM | DESCRIPTION | DATE | APPR |

NAVFAC

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STATE OF WASHINGTON
19627
REGISTERED
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PHONE: 360.671.7387
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www.pseurvey.com
A/E INFO


APPROVED
FOR COMMANDER NAVFAC

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |

BRANCH MANAGER
CHIEF ENG/ARCH
<<OIC>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND

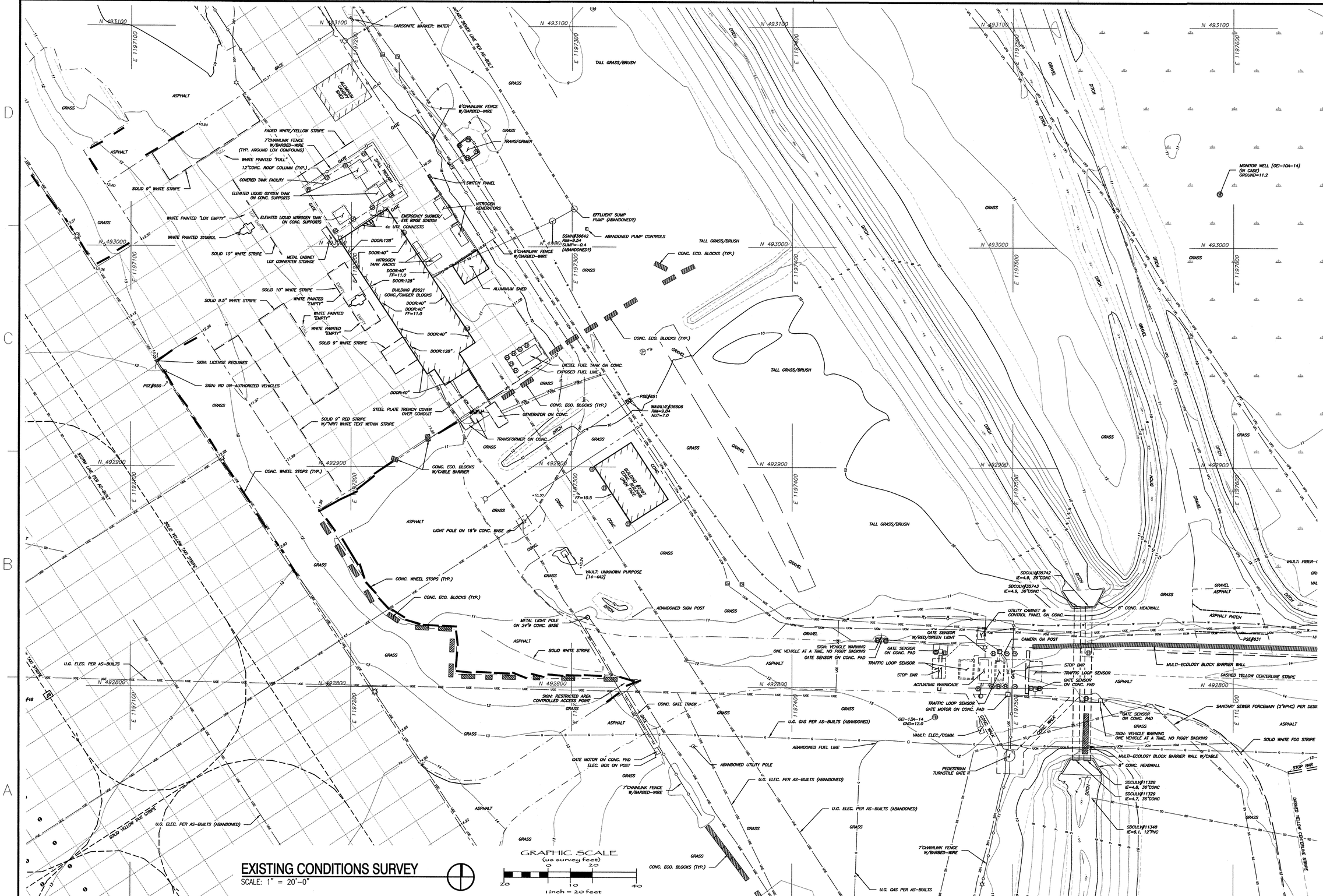
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD ~ OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
1603028 3
SHEET 29 OF 302

V-118




## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 0 40
1 inch = 20 feet

| | | | |
|---|---|---|---|
| | | | APPR |
| | | | DATE |
| | | | DESCRIPTION |
| | | | SYM |

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A/E INFO


APPROVED 3/2/15
FOR COMMANDER NAVFAC

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO | DATE

| | | | |
|---|---|---|---|
| DES | | DRW RMT | CHK AJN |
| <<PM/TM>> | JOSEPH KISIDAY | | |
| BRANCH MANAGER | | | |
| CHIEF ENG/ARCH | | | |
| <<XXX>> | | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD | OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND | OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

| | |
|---|---|
| SCALE: | AS NOTED |
| EPROJECT NO.: | |
| CONSTR. CONTR. NO. | N44255-15-C-6003 |
| NAVFAC DRAWING NO. | 16030284 |
| SHEET | 30 OF 302 |

V-119

U.G. ELEC. PER AS-BUILTS (ABANDONED)
GRASS
VAULT: ELEC.
ABANDONED LIGHT CAN
METAL SLIT RAMP (OVERGROWN)
LIGHT POLE ON 20'ø CONC. BASE
GEI-14A-14 GND=10.2
U.G. ELEC. PER AS-BUILTS (ABANDONED)
PSE#681
SOLID YELLOW TAXI STRIPE
STORM LINE PER AS-BUILT
RED HATCHED STRIPING
UTILITY BOX #41
CONC. BUMPER (TYP.) 12'(w)X12'(h)
ASPHALT
SLOT DRAIN TOP@CONC=9.09 IE=7.5
DOOR:120" FT=9.9
WAVALVE#36970 RIM=9.23 NUT=6.0
WAVALVE#36969 RIM=9.43 NUT=5.5
WAVALVE#36912 RIM=9.68 NUT=5.2
ELEC. PANEL MOUNTED TO WALL
PROPANE TANK ON CONC. PAD
SSMH#36838 RIM=9.72
IE NE=UNK. 17"PVC (N/ PUMP TO DRAINFIELD?)
IE SW=5.8, 4"PVC
SSMH#36839 RIM=9.56 IE 6.3, 4"PVC
SSMH#36837 RIM=9.53 IE 6.4, 4"PVC SUMP=2.2
SLOT DRAIN TOP@CONC=9.01 IE=7.4
BUILDING #2706
DOOR: 40"
DOOR:120"
CONC.
WAVALVE#36852 I-11A-14 RIM=10.44 GND=9.1 (IN VAULT BOX)
GEI GND=9.1
WAVALVE#36864 RIM=10.00 NUT=5.4
TRANSFORMER ON CONC.
ENCLOSED BATTERY CHARGING STATION
WAVALVE#36821 RIM=9.1 NUT=5.5
WAVALVE#36820 RIM=9.29 NUT=5.2
SANITARY DRAINFIELD
SSMH#31134 RIM=12.32
PRESSURE REDUCER DISTRIBUTION WELL
EMERGENCY SHOWER/ EYE RINSE STATION
SLOT DRAIN TOP@CONC=9.16 IE=7.6
DOOR
DOOR:120" FT=9.4
SLOT DRAIN TOP@CONC=9.22 IE=7.6
BUILDING #2800
SANITARY SEWER LINE PER AS-BUILT (ABANDONED)
PROPANE CONNECT/VALVE MOUNTED TO WALL
VAULT: ELEC.
SLOT DRAIN TOP@CONC=9.26 IE=7.6
CONC. ECO. BLOCKS (TYP.)
SLOT DRAIN TOP@CONC=9.27 IE=7.7
SDCB#31877 RIM=9.27 IE NE=7.8, 8"PVC SUMP=7.4
GEI-15A-14 GND=10.2
SLOT DRAIN TOP@CONC=9.01 IE=7.5
TALL GRASS/BRUSH
DITCH
N 493500
N 493400
N 493300
N 493200
N 493100
E 1196600
E 1196700
E 1196800
E 1196900
E 1197000
E 1197100

## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 40
1 inch = 20 feet

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

NAVFAC

ADAM J NELSON
STATE OF WASHINGTON
14962
REGISTERED PROFESSIONAL LAND SURVEYOR


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BELLINGHAM, WA 98225
PHONE: 360.671.7387
FAX: 360.671.4685
www.psesurvey.com
A/E INFO


APPROVED 3/12/15
FOR COMMANDER NAVFAC

ACTIVITY: NAS WHIDBEY ISLAND
SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<DO>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND — AULT FIELD ~ OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030285
SHEET 31 OF 302

**V-120**

# EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 10 20
20 10 0 40
1 inch = 20 feet

| APPR | DATE | DESCRIPTION | STM |
|---|---|---|---|
| | | | |

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ADAM J NELSEN
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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <PM/DM> | JOSEPH KISIDAY | |

BRANCH MANAGER
CHIEF ENG/ARCH
<XXX>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

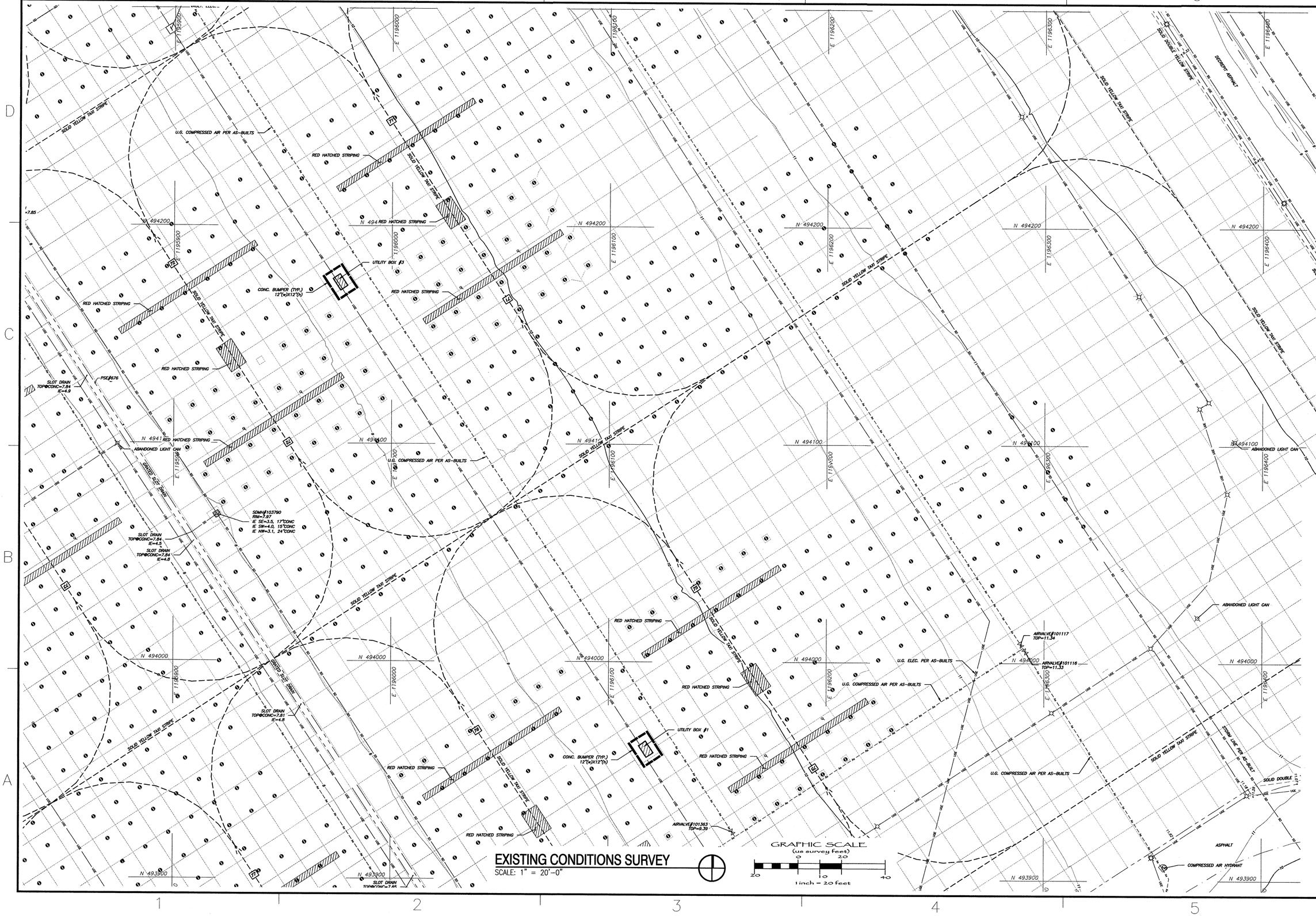
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD ~ OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030286
SHEET 32 OF 302

V-121




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |

BRANCH MANAGER

CHIEF ENG/ARCH

<<XX>>

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NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

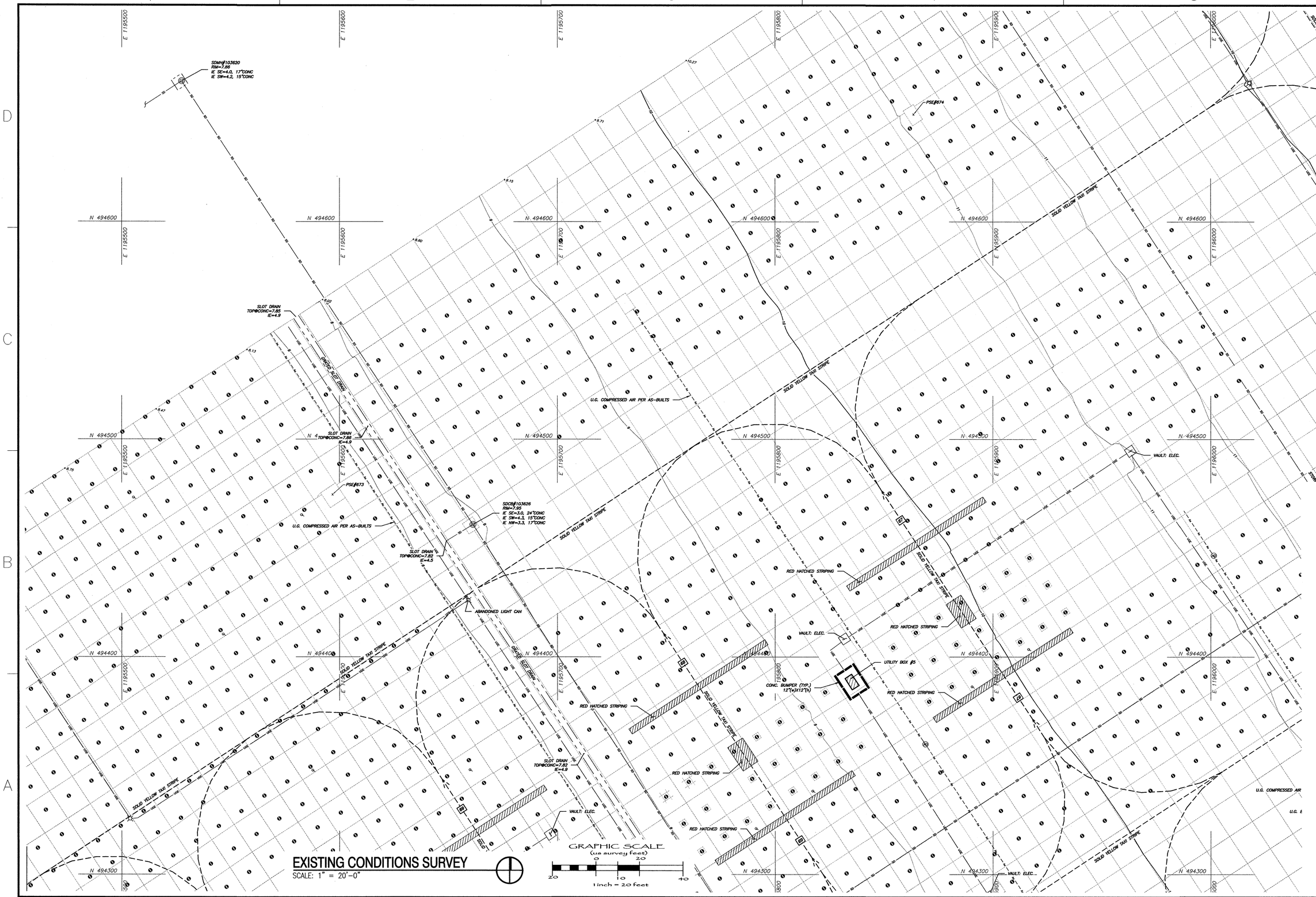
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030287

SHEET 33 OF 302

V-122




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XX>> | | |

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AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

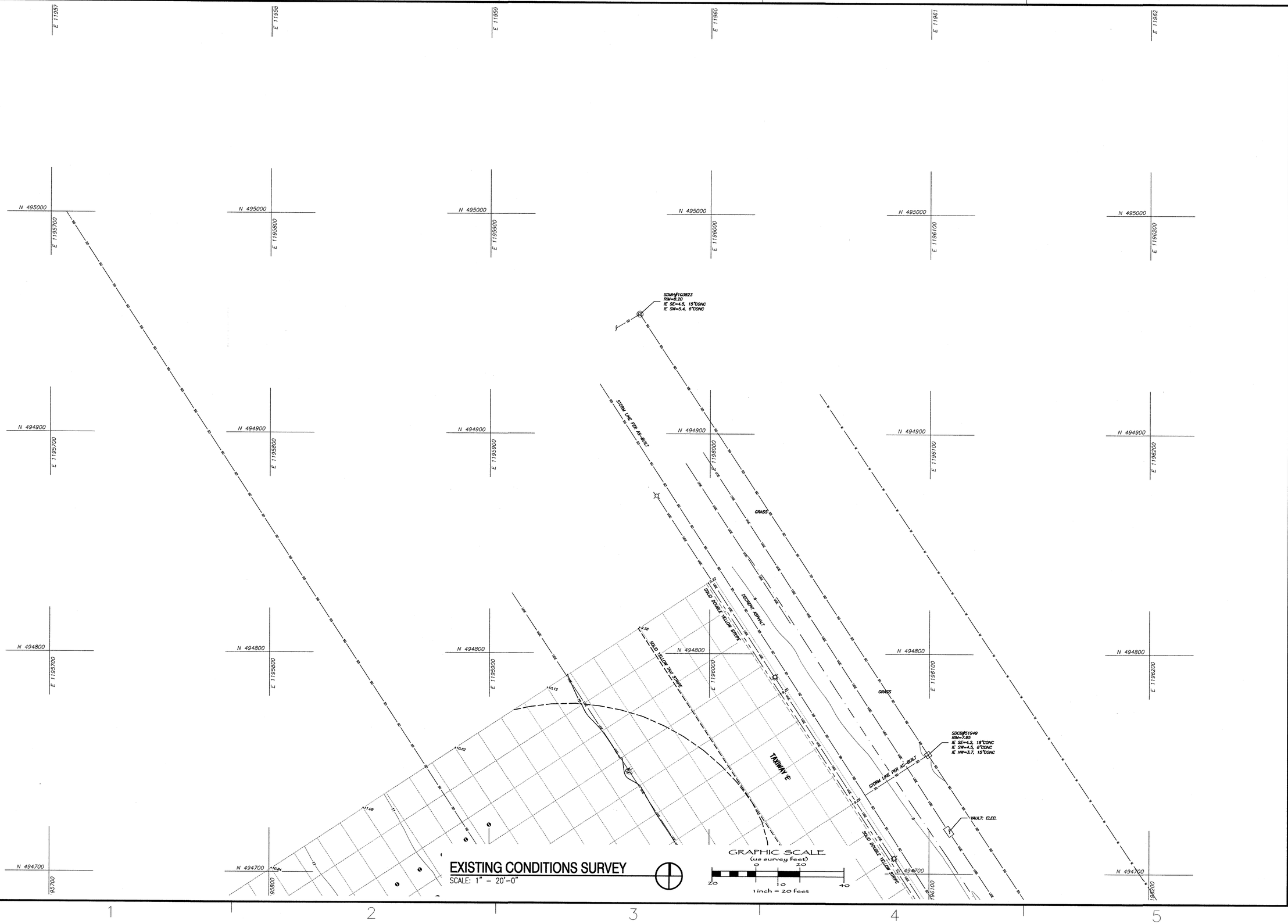
EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030288

SHEET 34 OF 302

V-123




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| | | | |
|---|---|---|---|
| | | | APPR |
| | | | DATE |
| | | | DESCRIPTION |
| | | | MAS |

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FOR COMMANDER NAVFAC

5/12/15

ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES DRW RMT CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

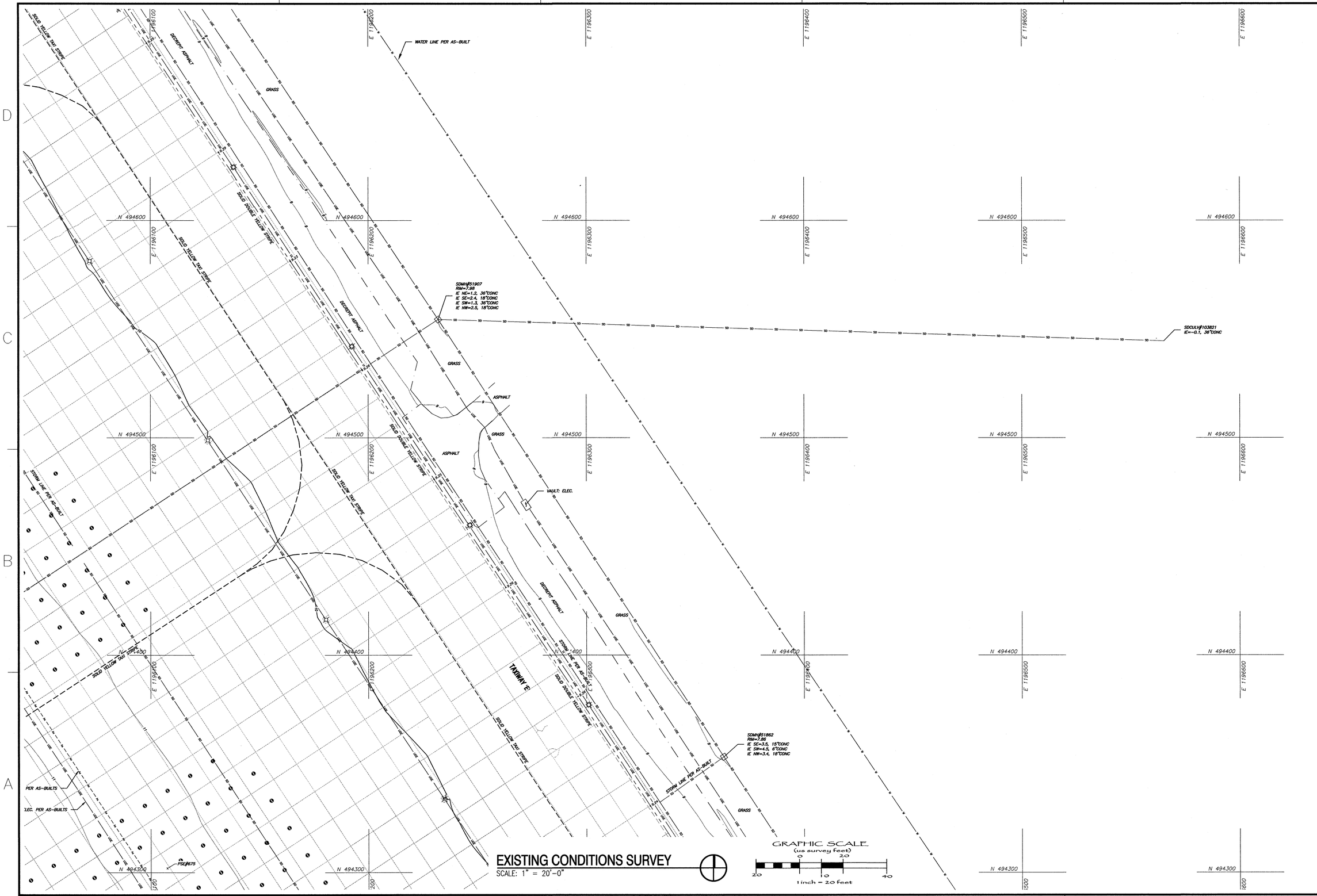
EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030289

SHEET 35 OF 302

V-124




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|

<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

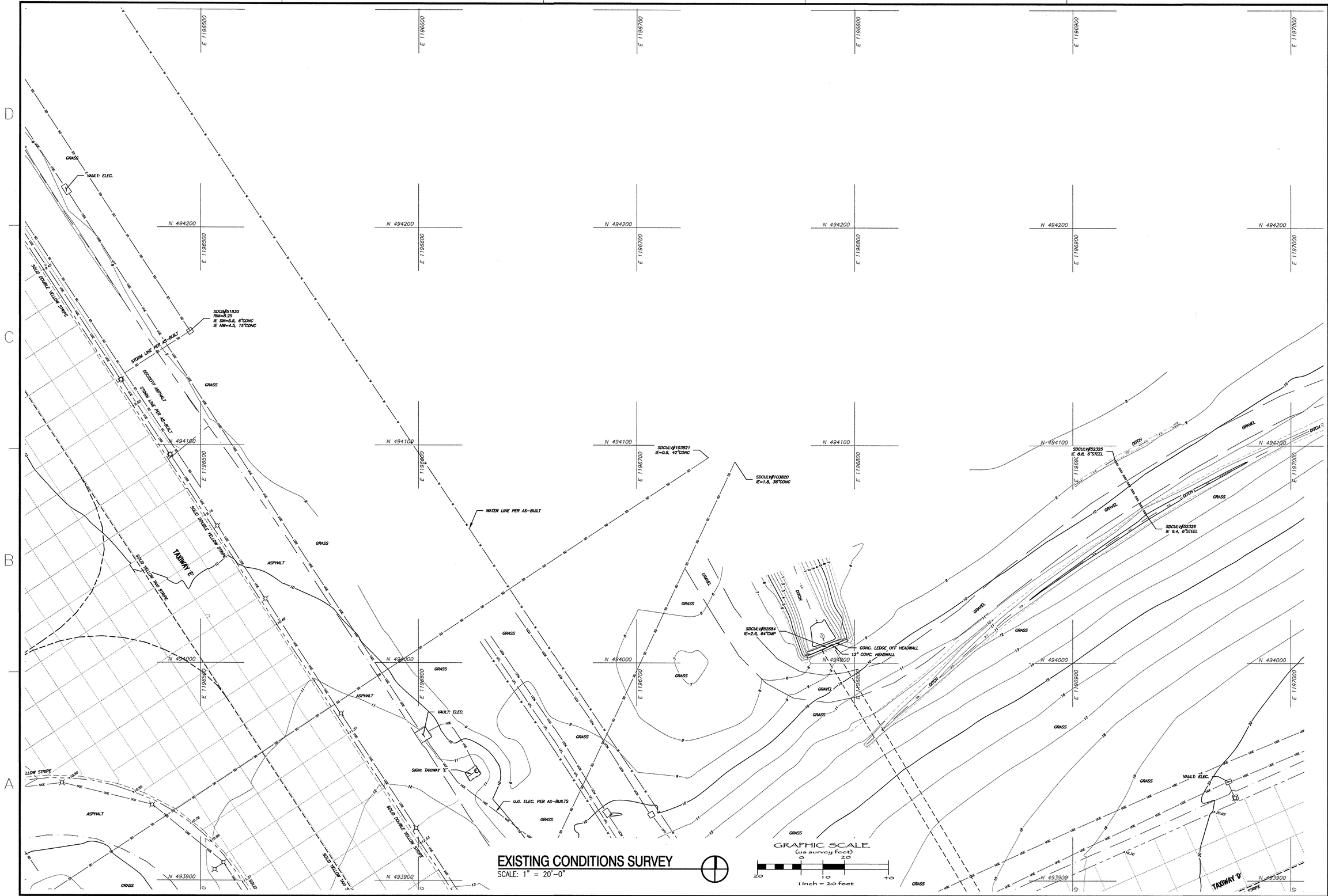
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030290
SHEET 36 OF 302

V-125




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| NUM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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ACTIVITY

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XXX>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

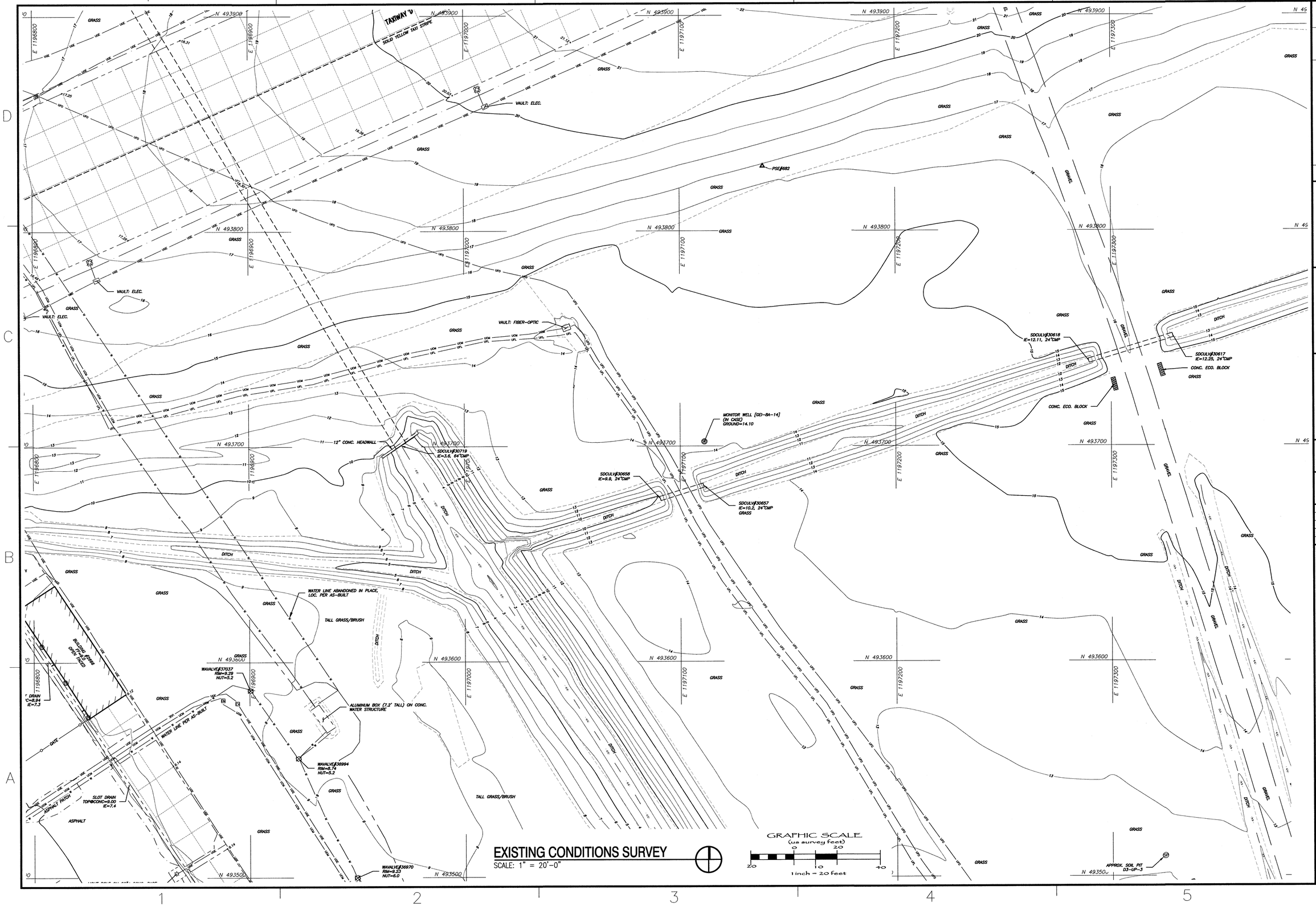
EPROJECT NO.:

CONSTR. CONTR. NO.
N44255-15-C-6003

NAVFAC DRAWING NO.
16030291

SHEET 37 OF 302

V-126




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE (us survey feet)

1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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FOR COMMANDER NAVFAC

ACTIVITY 5/2/15

NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES | DRW RMT | CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

## EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

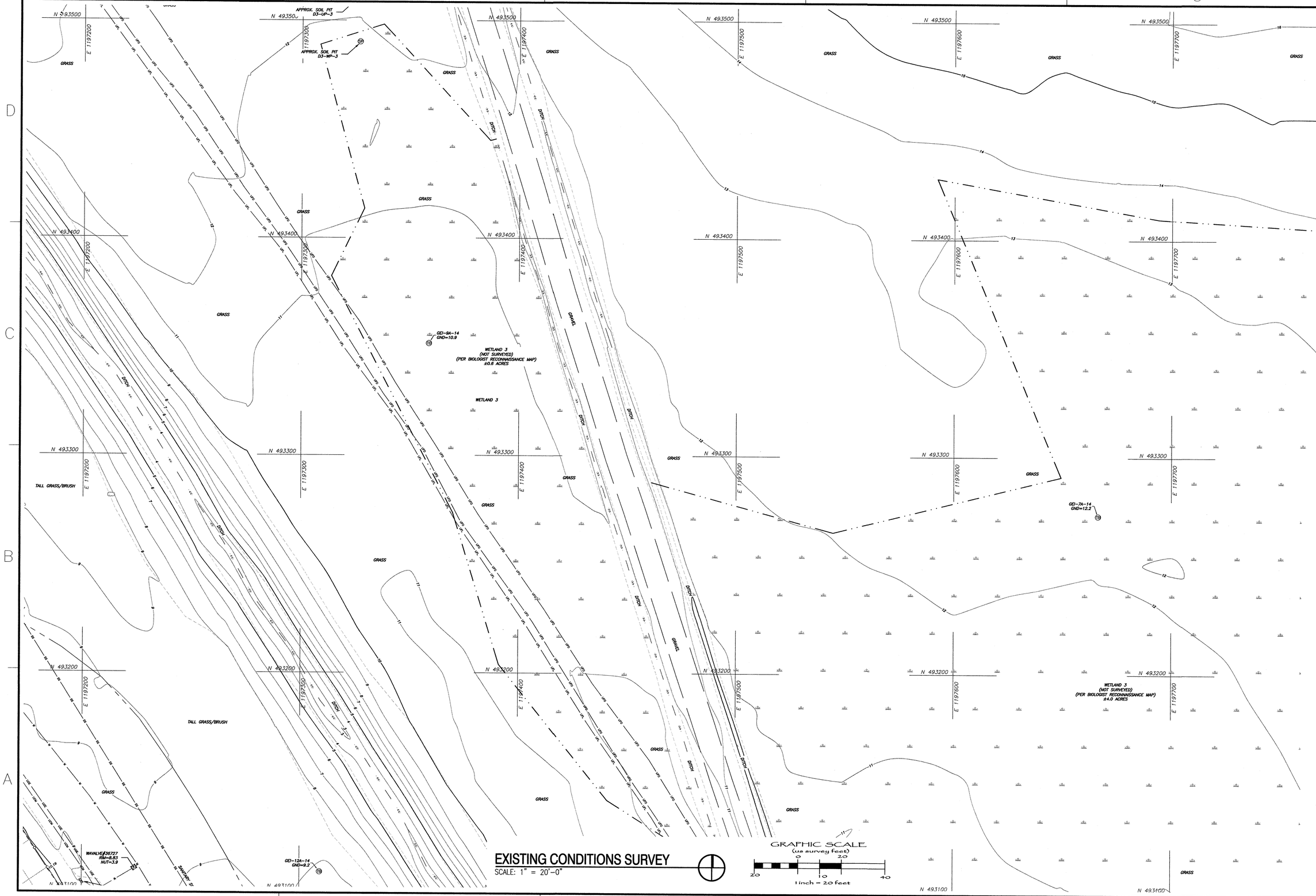
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030292

SHEET 38 OF 302

V-127




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

NAVFAC

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1962
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FOR COMMANDER NAVFAC 3/2/15

ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES | DRW RMT | CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<OO>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

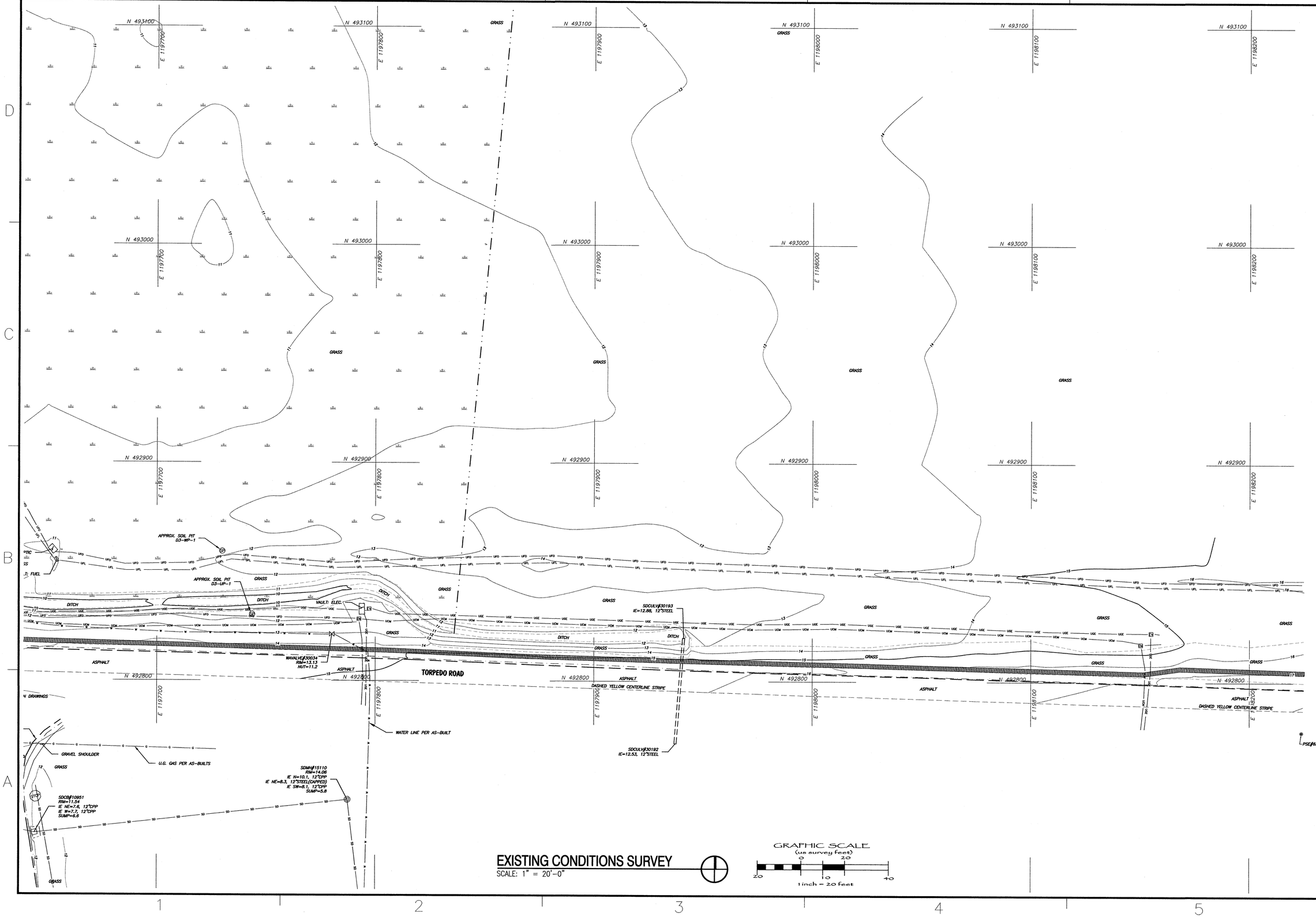
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030293

SHEET 39 OF 302

V-128




## EXISTING CONDITIONS SURVEY

SCALE: 1" = 20'-0"

GRAPHIC SCALE (us survey feet)

1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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ACTIVITY: NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES | DRW RMT | CHK AJN

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<OO>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
NAVAL AIR STATION WHIDBEY ISLAND
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED

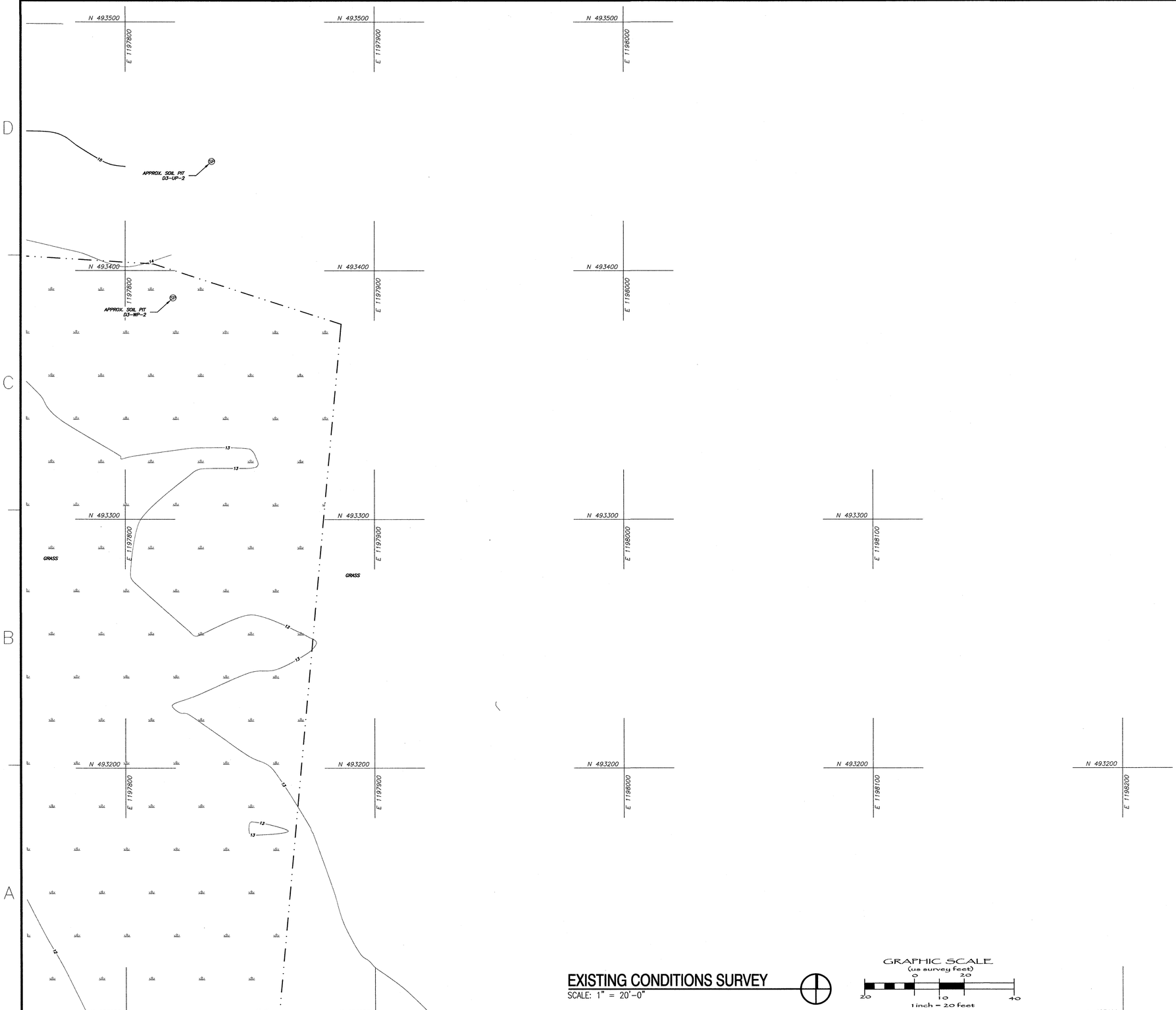
EPROJECT NO.:

CONSTR. CONTR. NO. N44255-15-C-6003

NAVFAC DRAWING NO. 16030294

SHEET 40 OF 302

V-129




## EXISTING CONDITIONS SURVEY
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(us survey feet)
0 20
20 10 40
1 inch = 20 feet

| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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ACTIVITY
NAS WHIDBEY ISLAND
SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<DD>> | | |

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

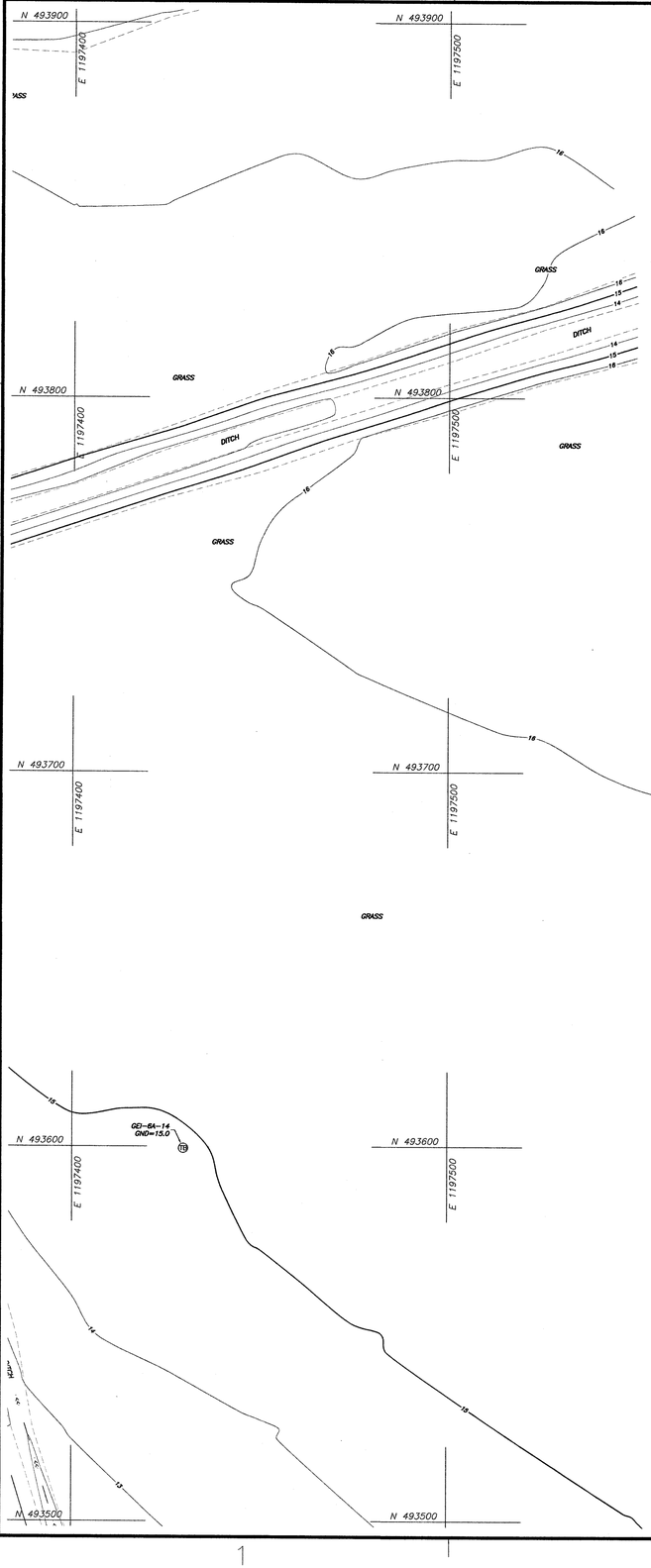
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

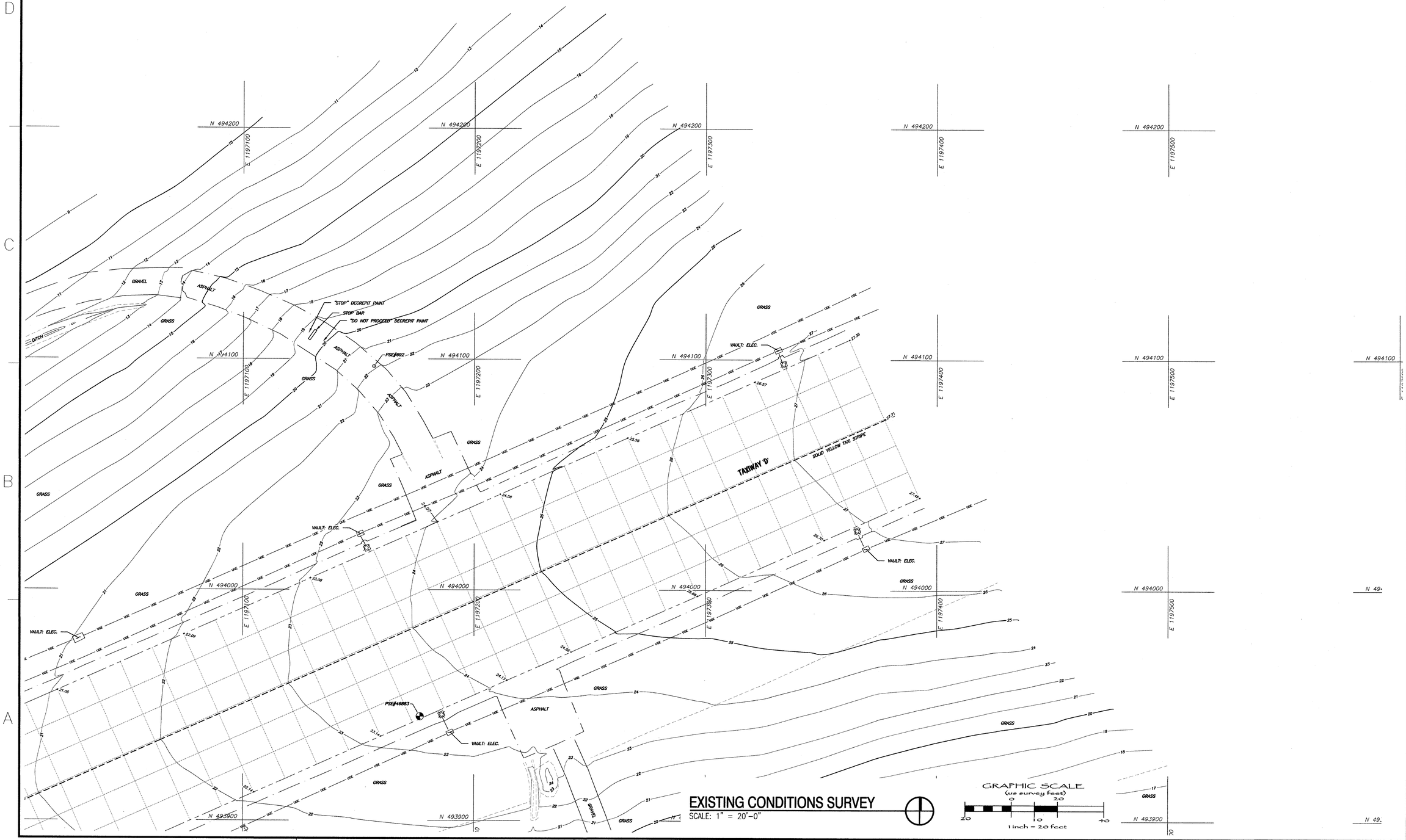
# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030295
SHEET 41 OF 302

V-130


N 493900
E 1197400
E 1197500
E 1197600
E 1197700
N 493800
E 1197800
E 1197900
N 493700
N 493600
N 493500
N 493350
GRASS
DITCH
GRASS
GRASS
GRASS




| SYM | DESCRIPTION | DATE | APPR |
|---|---|---|---|

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ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES | DRW RMT | CHK AJN |
|---|---|---|
| <<PM/DM>> | JOSEPH KISIDAY | |
| BRANCH MANAGER | | |
| CHIEF ENG/ARCH | | |
| <<XXX>> | | |

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NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD ~ OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

# FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A

# EXISTING CONDITIONS SURVEY

SCALE: AS NOTED
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030297
SHEET 43 OF 302

V-132

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/21/2014 | 5/21/2014 | 26.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| | | | |
|---|---|---|---|
| Surface Elevation (ft) Vertical Datum | 12 NASWI Base Datum | Hammer Data | Autohammer 140 (lbs) / 30 (in) Drop |
| Drilling Equipment | Diedrich D50 | | |
| Easting (X) Northing (Y) | | System Datum | NASWI Base Datum |
| Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) | Not encountered |

Notes:

FIELD DATA

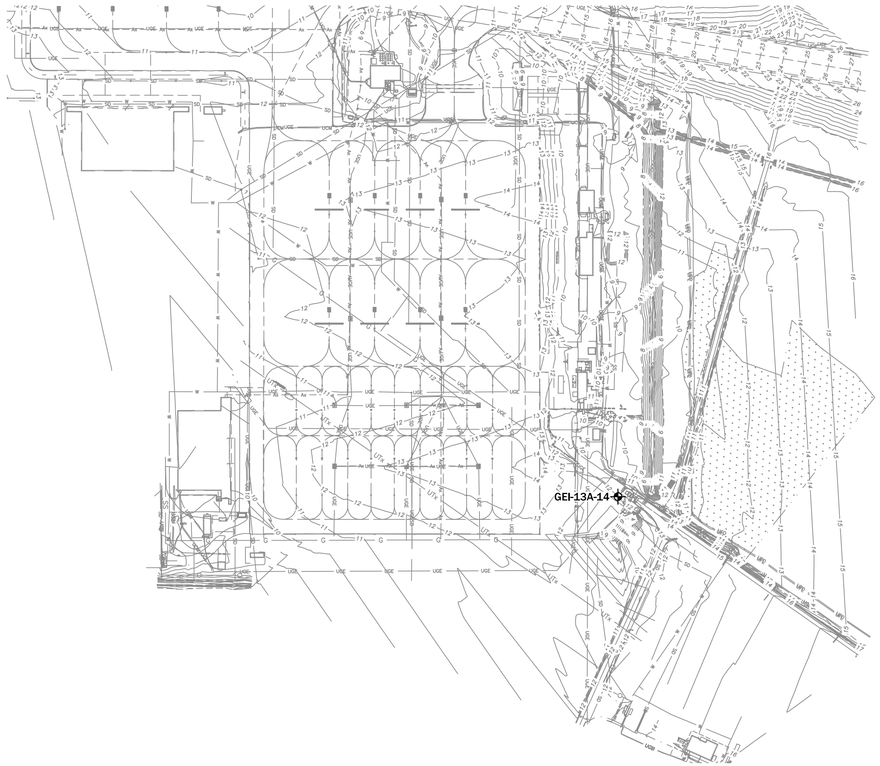
| Elevation (feet) | Depth (feet) | Material | Recovered (in) | Blows/foot | Collected Sample | Sample Name for Lab Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | | 6 | | | 0 | | | SM | Brown silty fine to coarse sand with gravel and rootlets (moist) | 5 | | |
| | 2.5 | | 6 | 7 | | 1 | | | SM/ML | Brown silty fine to medium sand to sandy silt with gravel and rootlets (loose/medium stiff, moist) (fill) | 18 | | SS; <1 |
| 5 | 5 | | 6 | 8 | | 2 | | | CL | Gray clay with occasional fine gravel (medium stiff, moist to wet) (glaciomarine drift) | 32 | | NS; <1 |
| | 7.5 | | 6 | 3 | | 3 | | | | | 34 | | NS; <1 |
| 10 | 10 | | 0 | 4 | | 4 | | | | | | | |
| | 12.5 | | 18 | 1 | | 5a<br>5b | | | CL | Gray clay with sand and gravel (very soft, wet) | | | NS; <1 |
| | | | | | | | | | CL | Gray clay (very soft, wet) | 52 | | |
| 15 | 15 | | 18 | 1 | | 6 | | | | | 60 | | |
| | | | | | | | | | | With thin sand lenses | | | |
| 20 | 20 | | 18 | 2 | | 7 | | | | | 39 | | NS; <1 |
| | | | | | | | | | SP | Gray fine to coarse sand, trace silt (medium dense, wet) (glacially consolidated deposits) | | | |
| 25 | 25 | | 18 | 24 | | 8a<br>8b<br>8c | | | SM<br>SP | Gray silty fine to medium sand (medium dense, wet)<br>Gray medium to coarse sand (stiff, wet) | | | NS; <1 |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-13A-14

| | |
|---|---|
| Project: | P-8A Hangar & Aircraft Apron Expansion |
| Project Location: | Whidbey Island, Washington |
| Project Number: | 0144-444-00 |

Figure A-14
Sheet 1 of 1




**LEGEND:**

GEI-13A-14 ⊕ BORING LOCATION

| BORING | SURVEY DESIGN SHEET |
|---|---|
| GEI-13A-14 | V-119 |

1" = 200'
0 200 400 600

## BORING LOG(S)
SCALE: 1"=200'

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

NAVFAC

MATTHEW W. SMITH
STATE OF WASHINGTON
35217
REGISTERED
PROFESSIONAL ENGINEER
3/18/15
SEAL


GeoEngineers
8410 154th Avenue N.E.
Redmond, WA 98052
Telephone: 425.861.6000
Facsimile: 425.861.6050
Contact: Matt Smith, P.E.


A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/25/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES: AJH | DRW: SCY | CHK: MWS |
|---|---|---|

<<CPM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<COO>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND – NORTHWEST
AULT FIELD – OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

BORING LOG(S)

SCALE:
EPROJECT NO.:
CONSTR. CONTR. NO.
N44255-15-C-6003
NAVFAC DRAWING NO.
16030298
SHEET 44 OF 302

B-111

DRAWFORM REVISION: 10 MARCH 2009

| Drilled Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|
| 5/22/2014 | 5/22/2014 | 41 | TKC | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10 NASWI Base Datum | Rope & Cathead 140 (lbs) / 30 (in) Drop | XL Trailer |

| Easting (X) Northing (Y) | System Datum | Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) |
|---|---|---|---|---|
| | NASWI Base Datum | | Not encountered | |

Notes:

| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 0 | 1 | 6 | | | | | | SP-SM | Brown fine to medium sand with silt and occasional gravel (moist) (fill) | 10 | | NS: <1 |
| | | 2 | 12 | 11 | | | | | OL | Black organic silt with fine to medium sand (medium stiff, moist) (relict topsoil) | 87 | | NS: <1 |
| 5 | 5 | 3 | 14 | 4 | | | | | CL | Gray clay with organic lenses (soft, moist to wet) (glaciomarine drift) | 45 | | NS: <1 |
| | | 4 | 2 | 4 | | | | | CH | Gray clay with occasional gravel (soft, wet) | 22 | | NS: <1 |
| 0 | 10 | 5 | 15 | 11 | | | | | | | 28 | | NS: <1 |
| | | 6 | 16 | 8 | | | | | CH | Gray clay with fine to medium sand interbeds (medium stiff, wet) | | | |
| -5 | 15 | | | | | | | | CH | Gray sandy clay with sand and occasional fine gravel(medium stiff, wet) | 24 | | NS: <1 |
| | | 7 | 18 | 11* | | | | | | | 22 | | *Blow count overstated |
| -10 | 20 | 8 | 16 | 41 | | Gsa | | | SP-SM | Gray fine to medium sand to fine to medium sand with silt (dense, moist) (glacially consolidated deposits) | 19 | 11 | NS: <1 |
| | | 9 | 16 | 33 | | Gsa | | | GP | Gray fine to coarse gravel with sand (dense, wet) | 8 | 2 | NS: <1<br>3 inches of heave |
| -15 | 25 | | | | | | | | | | | | |
| | | 10 | 8 | 89/11" | | CBS | | | SM | Gray silty fine to coarse sand with gravel (very dense, moist) | 8 | 29 | NS: <1 |
| -20 | 30 | | | | | | | | | | | | |
| | 35 | | | | | | | | | | | | |

Notes: See Figure A-1 for explanation of symbols.

## Log of Boring GEI-19A-14

| | |
|---|---|
| Project: | P-8A Hangar & Aircraft Apron Expansion |
| Project Location: | Whidbey Island, Washington |
| Project Number: | 0144-444-00 |

Figure A-20
Sheet 1 of 2

| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -20 | 40 | 9 | 50/6" | | | 11 | | | | | | | NS: <1 |
| | | 10 | 50/6" | | | 12 | | | | | | | NS: <1 |

Notes: See Figure A-1 for explanation of symbols.

## Log of Boring GEI-19A-14 (continued)

| | |
|---|---|
| Project: | P-8A Hangar & Aircraft Apron Expansion |
| Project Location: | Whidbey Island, Washington |
| Project Number: | 0144-444-00 |

Figure A-20
Sheet 2 of 2

| Drilled Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|
| 5/22/2014 | 5/22/2014 | 41.5 | TKC | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10.4 NASWI Base Datum | Rope & Cathead 140 (lbs) / 30 (in) Drop | XL Trailer |

| Easting (X) Northing (Y) | System Datum | Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) |
|---|---|---|---|---|
| | NASWI Base Datum | | Not encountered | |

Notes:

| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 0 | 1 | 6 | | | | | | SM | Brown silty fine to coarse sand with gravel (medium dense, moist) (fill) | 7 | | NS: <1 |
| | | 2 | 18 | 5 | | | | | CL | Gray clay with fine sand and occasional organic matter (medium stiff, moist) (reworked glaciomarine drift) | 26 | | NS: <1 |
| 5 | 5 | 3 | 20 | 5 | | | | | | | 37 | | NS: <1 |
| | | 4 | 18 | 2 | | | | | CL | Gray clay with occasional sand and rootlets (soft to very soft, wet) (glaciomarine drift) | 48 | | NS: <1 |
| 0 | 10 | 5 | 18 | 2 | | | | | | | 44 | | NS: <1 |
| | | 6 | 18 | 1 | | Pm | | | | | 48 | | NS: <1<br>AL (LL = 43; PI = 21) |
| -5 | 15 | 7 | 18 | 3 | | | | | | | 39 | | NS: <1 |
| | | 8 | 18 | 20 | | Gsa | | | SM | Gray silty fine sand (medium dense, moist) | 24 | 40 | NS: <1 |
| -10 | 20 | | | | | | | | SM | Gray silty fine to medium sand with silt lenses, trace gravel (dense, wet) (glacially consolidated deposits) | | | |
| | | 9 | 14 | 42 | | | | | | | | | NS: <1 |
| -15 | 25 | | | | | | | | SM | Gray silty fine to coarse sand with gravel (very dense, wet) | | | Harder drilling at 27 feet |
| | | 10 | 5 | 50/5.5" | | SSS | | | | | 7 | 26 | NS: <1 |
| -20 | 30 | | | | | | | | | | | | |
| | 35 | | | | | | | | | | | | |

Notes: See Figure A-1 for explanation of symbols.

## Log of Boring GEI-20A-14

| | |
|---|---|
| Project: | P-8A Hangar & Aircraft Apron Expansion |
| Project Location: | Whidbey Island, Washington |
| Project Number: | 0144-444-00 |

Figure A-21
Sheet 1 of 2

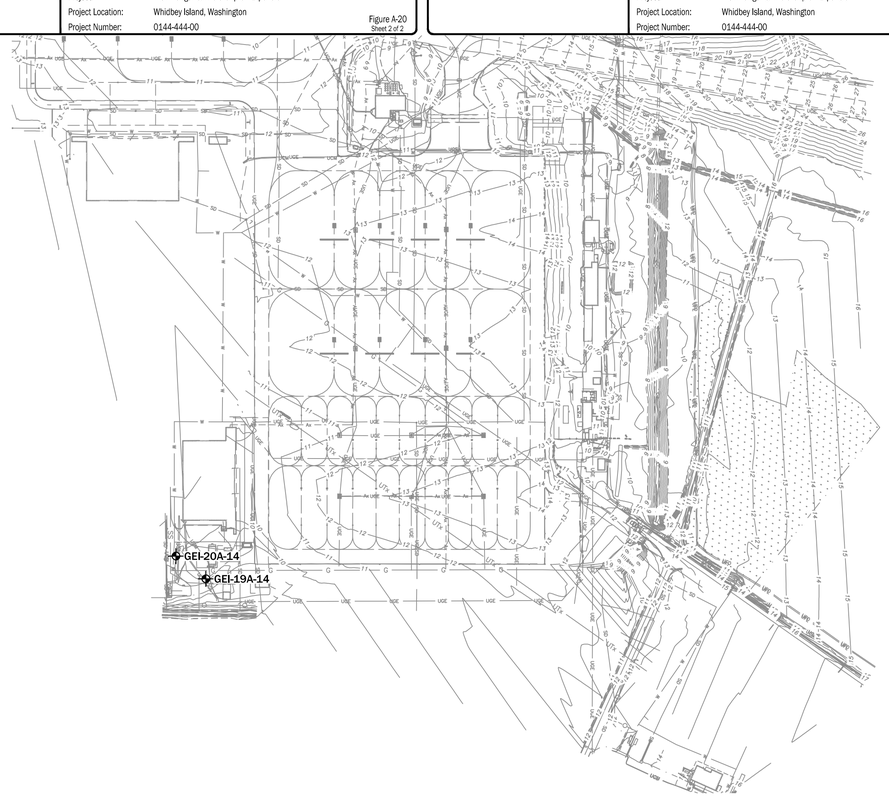
| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -20 | 40 | 11 | 12 | 87 | | CBS | | | | | 8 | 8 | NS: <1 |

Notes: See Figure A-1 for explanation of symbols.

## Log of Boring GEI-20A-14 (continued)

| | |
|---|---|
| Project: | P-8A Hangar & Aircraft Apron Expansion |
| Project Location: | Whidbey Island, Washington |
| Project Number: | 0144-444-00 |

Figure A-21
Sheet 2 of 2




**LEGEND:**

GEI-19A-14 ⊕ BORING LOCATION

| BORING | SURVEY DESIGN SHEET |
|---|---|
| GEI-19A-14 | V-105 |
| GEI-20A-14 | V-105 |

1" = 200'
0 200 400 600

## BORING LOG(S)

SCALE: 1"=200'


GEOENGINEERS
8410 154th Avenue N.E.
Redmond, WA 98052
Telephone: 425.861.6000
Facsimile: 425.861.6050
Contact: Matt Smith, P.E.


MATTHEW W. SMITH
STATE OF WASHINGTON
35217
REGISTERED
PROFESSIONAL ENGINEER
3/18/15
SEAL

APPR | DATE | DESCRIPTION | SYM

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/18/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES: AJH | DRW: SCY | CHK: MWS |
|---|---|---|

<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
BORING LOG(S)

SCALE:
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030299
SHEET 45 OF 302

B-121

DRAWFORM REVISION: 10 MARCH 2009

| Drilled Start | End | Total Depth (ft) | Logged By / Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|
| 5/19/2014 | 5/19/2014 | 21.5 | MWR / AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 15 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: — Depth to Water (ft): — Elevation (ft): — Not encountered |

Notes:

FIELD DATA: Elevation (feet); Depth (feet); Interval; Recovered (in); Blows/foot; Collected Sample; Sample Name Testing; Water Level; Graphic Log; Group Classification; MATERIAL DESCRIPTION; Moisture Content (%); Fines Content (%); REMARKS

| Depth (ft) | Interval | Recovered (in) | Blows/foot | Sample Name Testing | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | 6 | | 0 | TS | Brown sandy silt with organic matter (moist) (topsoil) | 19 | | NS; <1 |
| | 18 | 6 | 1 | | ML | Brownish-gray fine sandy silt (medium stiff, moist) (glaciomarine drift) possibly reworked glaciomarine drift) | 28 | | NS; <1 |
| 5 | 18 | 11* | 2 | | ML/CL | Brown to gray sandy silty clay with occasional gravel (stiff, moist) | 25 | | NS; <1 *Blow count overstated |
| | 18 | 3 | 3 | | CL | Gray clay, trace fine sand (soft, wet) | 40 | | NS; <1 |
| 10 | 24 | P | 4 CS; AL | | | | 44 | | AL (LL = 50; PI = 27) |
| | 18 | 4 | 5 | | | | 43 | | NS; <1 |
| 15 | 18 | 3 | 6 | | | | 44 | | NS; <1 |
| | 18 | 52 | 7 SA | | SW-SM | Gray fine to coarse sand with gravel and silt (dense, wet) (glacially consolidated deposits) | 8 | 8 | NS; <1 |
| 20 | | | | | | | | | |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-06A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-7
Sheet 1 of 1

| Drilled Start | End | Total Depth (ft) | Logged By / Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|
| 5/20/2014 | 5/20/2014 | 20.5 | MWR / AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 12.2 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: — Depth to Water (ft): — Elevation (ft): — Not encountered |

Notes:

FIELD DATA: Elevation (feet); Depth (feet); Interval; Recovered (in); Blows/foot; Collected Sample; Sample Name Testing; Water Level; Graphic Log; Group Classification; MATERIAL DESCRIPTION; Moisture Content (%); Fines Content (%); REMARKS

| Depth (ft) | Interval | Recovered (in) | Blows/foot | Sample Name Testing | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | 6 | | 0 | ML | Dark brown silt with organic matter (soft, moist) (topsoil) | 42 | | NS; <1 |
| | 18 | 6 | 1 | | CL | Brownish-gray clay with sand (medium stiff, moist) (glaciomarine drift) | 29 | | NS; <1 |
| 5 | 18 | 10* | 2 | | CL/SC | Gray sandy clay to clayey fine to coarse sand (soft/loose, wet) | 37 | | NS; <1 *Blow count overstated |
| | 18 | 1 | 3 | | CL | Gray clay (very soft, wet) | 56 | | |
| 10 | 24 | P | 4 CS; AL | | | | 51 | | AL (LL = 59; PI 32) |
| | 18 | 2 | 5 | | | | 46 | | NS; <1 |
| 15 | 18 | 7 | 6 | | CL | Gray clay with fine sand and occasional gravel (medium stiff, wet) | 18 | | NS; <1 |
| | 5 | 50/5" | 7 | | SM | Gray silty fine to coarse sand with gravell (very dense, wet) (glacially consolidated deposits) | | | |
| 20 | | | | | | | | | |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-07A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-8
Sheet 1 of 1

| Drilled Start | End | Total Depth (ft) | Logged By / Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|
| 5/19/2014 | 5/19/2014 | 21.5 | MWR / AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 14.1 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: 5/23/2014 Depth to Water (ft): 4.1 Elevation (ft): 9.96 |

Notes:

FIELD DATA: Elevation (feet); Depth (feet); Interval; Recovered (in); Blows/foot; Collected Sample; Sample Name Testing; Water Level; Graphic Log; Group Classification; MATERIAL DESCRIPTION; Moisture Content (%); Fines Content (%); REMARKS

| Depth (ft) | Interval | Recovered (in) | Blows/foot | Sample Name Testing | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | 18 | 16 | 1 | ML | Brown silt with sand and gravel (very stiff, moist) (reworked glaciomarine drift) | | | |
| | 18 | 0 | 6 | 2 | | NS; <1 | 20 | | NS |
| 5 | 18 | 18 | 4 | 3 | ML/CL | Brown silty to clay (medium stiff, wet) (glaciomarine drift) NS; <1 Overdrive with California sampler | 31 | | NS |
| | 18 | 24 | P | 4 CS; AL | CL | Gray clay, trace sand (medium stiff, wet) NS; <1 | 34 | | NS |
| 10 | 18 | 18 | 3 | 5 | | AL (LL = 55; PI = 27) | 46 | | |
| | 18 | 18 | 27 | 6 SA | | Becomes soft | | | |
| 15 | | | | | SP-SM | Gray fine to coarse sand with silt and gravel (medium dense, wet) (glacially consolidated deposits) | 12 | 7 | |
| | 18 | 12 | 64 | 7 | SM | Gray silty fine sand with occasional gravel (dense, wet) (outwash) | | | |
| 20 | | | | | | | | | |

Notes: See Figure A-1 for explanation of symbols.

Log of Monitoring Well GEI-08A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-9
Sheet 1 of 1

| Drilled Start | End | Total Depth (ft) | Logged By / Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|
| 5/20/2014 | 5/20/2014 | 21.5 | MWR / AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10.9 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: — Depth to Water (ft): — Elevation (ft): — Not encountered |

Notes:

FIELD DATA: Elevation (feet); Depth (feet); Interval; Recovered (in); Blows/foot; Collected Sample; Sample Name Testing; Water Level; Graphic Log; Group Classification; MATERIAL DESCRIPTION; Moisture Content (%); Fines Content (%); REMARKS

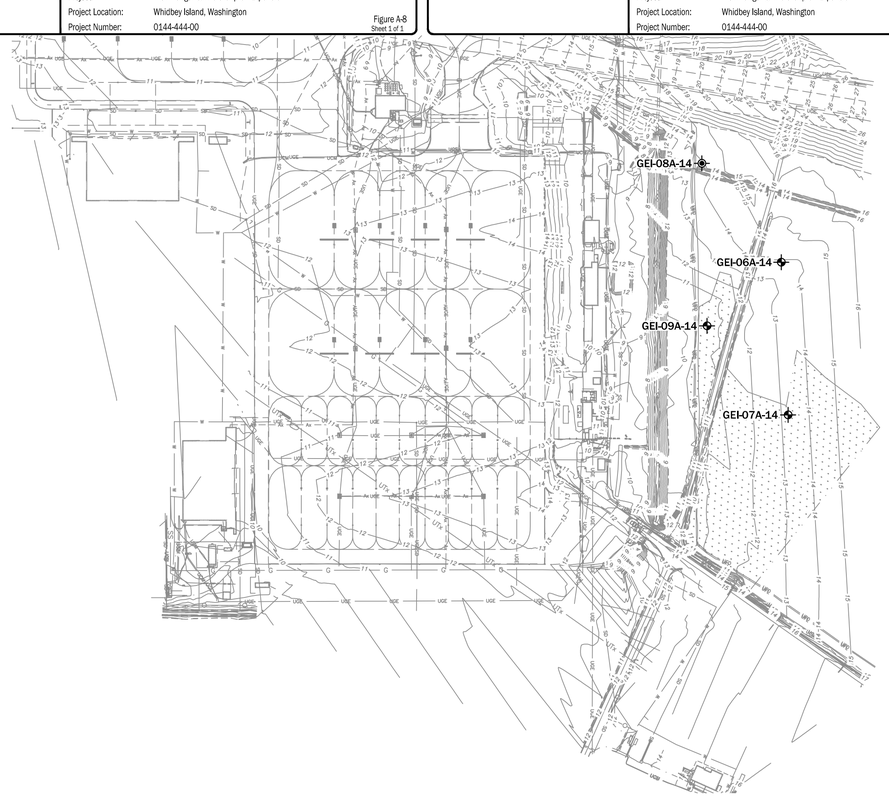
| Depth (ft) | Interval | Recovered (in) | Blows/foot | Sample Name Testing | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | 18 | 4 | 14 | CL | Gray clay (very soft, wet) (reworked glaciomarine drift) | 51 | | NS; <1 |
| | 18 | 12 | 3 | 2 | OL | Dark brown organic silt (soft, wet) (relict topsoil) | 37 | | NS; <1 |
| 5 | 18 | 0 | P | 3 | CL | Gray clay (soft, wet) (glaciomarine drift) | | | |
| | 18 | 0 | 11* | 4 | | Trace sand and occasional gravel | 32 | | No recovery NS; <1 *Blow count overstated Overdrive with California sampler |
| 10 | 18 | 18 | 2 | 5 | | Gravel grades out | 53 | | |
| | 18 | 18 | 3 | 6 | | | 48 | | NS; <1 |
| 15 | 18 | 18 | 31 | 7 SA | SM | Gray silty fine to medium sand with occasional gravel (dense, wet) (glacially consolidated deposits) | 15 | 27 | NS; <1 |
| 20 | | 14 | 84 | 8 | | | | | NS; <1 |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-09A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-10
Sheet 1 of 1




**LEGEND:**

GEI-06A-14 BORING LOCATION

| BORING | SURVEY DESIGN SHEET |
|---|---|
| GEI-06A-14 | V-131 |
| GEI-07A-14 | V-128 |
| GEI-08A-14 | V-127 |
| GEI-09A-14 | V-128 |

1" = 200'
0 200 400 600

## BORING LOG(S)

SCALE: 1"=200'

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

NAVFAC

MATTHEW W. SMITH
STATE OF WASHINGTON
35217
REGISTERED
PROFESSIONAL ENGINEER
3/18/15
SEAL


GEOENGINEERS
8410 154th Avenue N.E.
Redmond, WA 98052
Telephone: 425.861.6000
Facsimile: 425.861.6050
Contact: Matt Smith, P.E.


A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/18/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES: AJH | DRW: SCY | CHK: MWS |
|---|---|---|

<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
BORING LOG(S)

SCALE:
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030300
SHEET 46 OF 302

B-131

DRAWFORM REVISION: 10 MARCH 2009

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/20/2014 | 5/20/2014 | 26.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 11.2 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) |
|---|---|---|---|---|
| | NASWI Base Datum | 11/21/2014 | 0.0 | 11.2 |

Notes:

| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 6 | | | 0 | | | | ML | Brown silt with sand, organic matter and rootlets (soft, moist to wet) (topsoil) | 39 | | |
| | | 18 | 4 | | 1a 1b 1c | | | | CL | Gray clay (very soft, wet) (reworked glaciomarine drift) | | | |
| | | | | | | | | | ML/OL | NS; <1 | 56 | | NS |
| | | | | | | | | | CL | Dark brown silt with organics and rootlets (soft, moist) (relict topsoil) | | | |
| -5 | 5 | 18 | 2 | | 2 | | | | | Gray clay (soft, wet) (glaciomarine drift) NS; <1 | 57 | | NS |
| | | 24 | P | | 3 CA, AL | | | | | AL (LL = 54; PI = 31) | | | |
| -10 | 10 | 18 | 1 | | 4 | | | | | Becomes very soft NS; <1 | 55 | | NS |
| | | 18 | 1 | | 5 | | | | | NS; <1 | 40 | | NS |
| -15 | 15 | 0 | 0 | | 6 | | | | | No recovery | | | No recovery |
| | | 18 | 82 | | 7 CA | | | | SM | Gray silty fine to medium sand with gravel (dense, wet) (glacially consolidated deposits) NS; <1 | 8 | 31 | NS |
| -20 | 20 | 12 | 60/11" | | 8 | | | | | NS; <1 *Blow count overstated | | | NS *Blow count overstated |

Notes: See Figure A-1 for explanation of symbols.

Log of Monitoring Well GEI-10A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-11
Sheet 1 of 1

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/19/2014 | 5/19/2014 | 19.25 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 9.1 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) |
|---|---|---|---|---|
| | NASWI Base Datum | | Not encountered | |

Notes:

| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 6 | | | 0 | | | | ML | Brown sandy silt and organic matter (moist) (fill) | 27 | | |
| | | 18 | 7 | | 1 | | | | ML | Brownish-gray sandy silt with gravel (medium stiff, moist) (reworked glaciomarine drift) | 19 | | NS; <1 |
| -5 | 5 | 24 | 3 | | 2 | | | | CL | Gray clay (soft, moist) | 42 | | NS; <1 |
| | | 24 | 1 | | 3 | | | | | Becomes very soft, wet | 53 | | NS; <1 |
| -10 | 10 | 18 | P | | 4 | | | | | | | | |
| | | 12 | 28 | | 5 | | | | SM | Gray silty fine to coarse sand with gravel (medium dense to dense, wet) (glacially consolidated deposits) | | | NS; <1 |
| -15 | 15 | 18 | 31 | | 6 Qm | | | | | Becomes dense | 9 | 23 | NS; <1 |
| | | 2 | 50/3" | | 7 | | | | | Becomes very dense | | | NS; <1 |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-11A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-12
Sheet 1 of 1

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/19/2014 | 5/19/2014 | 21.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 9.2 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) |
|---|---|---|---|---|
| | NASWI Base Datum | | Not encountered | |

Notes:

| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 6 | | | 0 | | | | ML | Brown and gray sandy silt with grass, rootlets and organic matter (medium stiff, moist) (fill with topsoil) | 37 | | |
| | | 18 | 4 | | 1 | | | | | | 41 | | NS; <1 |
| -5 | 5 | 12 | 2 | | 2 | | | | CL | Gray clay with occasional fine gravel (soft, moist) | 39 | | NS; <1 |
| | | 18 | 0 | | 3 | | | | | Becomes very soft | 52 | | NS; <1 |
| -10 | 10 | 18 | 0 | | 4 | | | | | | 62 | | NS; <1 |
| | | 18 | 0 | | 5 | | | | | | 58 | | NS; <1 |
| -15 | 15 | 18 | 0 | | 6 | | | | | | 46 | | NS; <1 |
| | | 18 | 19 | | 7 Qf | | | | SM | Gray silty fine to coarse sand with gravel (medium dense, wet) (glacially consolidated deposits) | 13 | 29 | NS; <1 |
| -20 | 20 | | | | | | | | | | | | |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-12A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-13
Sheet 1 of 1

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/21/2014 | 5/21/2014 | 21.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10.2 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater Date Measured | Depth to Water (ft) | Elevation (ft) |
|---|---|---|---|---|
| | NASWI Base Datum | | Not encountered | |

Notes:

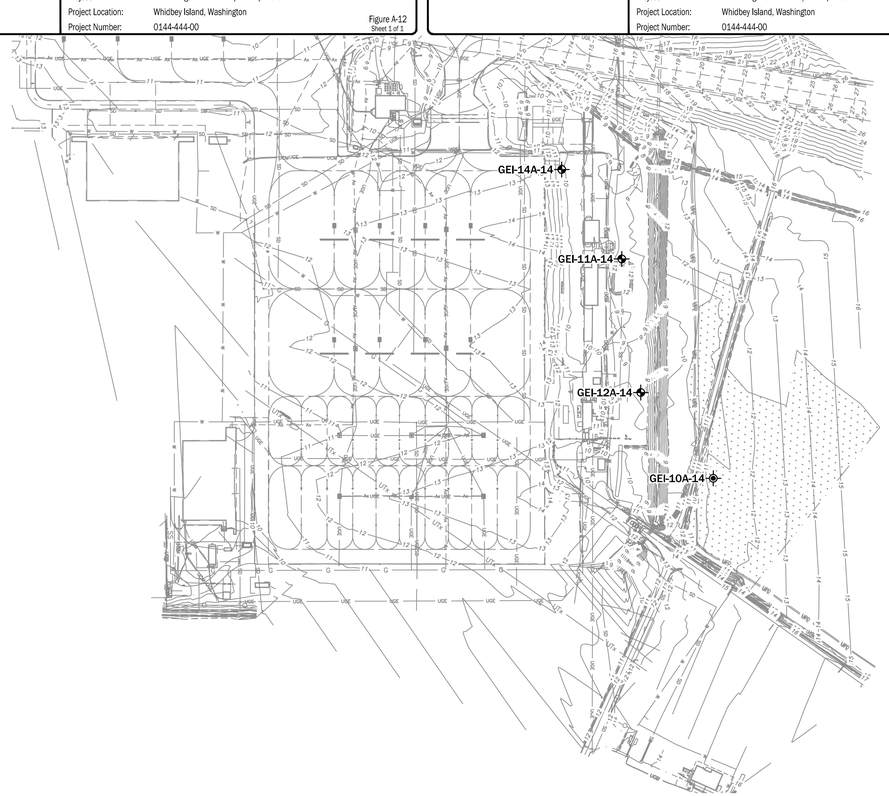
| Elevation (feet) | Depth (feet) | Interval | Recovered (in) | Blows/foot | Collected Sample | Sample Name Testing | Water Level | Graphic Log | Group Classification | MATERIAL DESCRIPTION | Moisture Content (%) | Fines Content (%) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 6 | | | 0 | | | | AC | 2 inches asphalt concrete | | | |
| | | 18 | 3 | | 1 | | | | CC | 6 inches cement concrete | 28 | | |
| | | | | | | | | | CL | Brownish-gray clay with 3 inch dark brown silty sand lense (soft, moist) (reworked glaciomarine drift) | | | |
| -5 | 5 | 18 | 2 | | 2 | | | | CL | Brownish-gray clay, trace organics (soft, moist) | 40 | | NS; <1 |
| | | 18 | 3 | | 3 | | | | | Gray clay (soft, moist to wet) (glaciomarine drift) | 41 | | NS; <1 |
| -10 | 10 | 12 | 2 | | 4 | | | | | Becomes wet | 47 | | NS; <1 |
| | | 0 | 2 | | 5 | | | | | | 50 | | NS; <1 |
| -15 | 15 | 18 | 2 | | 6 | | | | | | | | No recovery |
| | | | | | | | | | | | 43 | | NS; <1 |
| -20 | 20 | 16 | 58 | | 7 Qf | | | | SM | Gray silty fine to coarse sand with gravel (very dense, wet) (glacially consolidated deposits) | 8 | 23 | NS; <1 |

Notes: See Figure A-1 for explanation of symbols.

Log of Boring GEI-14A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-15
Sheet 1 of 1




**LEGEND:**

GEI-10A-14 BORING LOCATION

| BORING | SURVEY DESIGN SHEET |
|---|---|
| GEI-10A-14 | V-119 |
| GEI-11A-14 | V-120 |
| GEI-12A-14 | V-119 |
| GEI-14A-14 | V-120 |

1" = 200'
0 200 400 600

## BORING LOG(S)
SCALE: 1"=200'

| APPR | DATE | DESCRIPTION | SYM |
|---|---|---|---|
| | | | |

NAVFAC

MATTHEW W. SMITH
STATE OF WASHINGTON
35217
REGISTERED
PROFESSIONAL ENGINEER
3/18/15
SEAL


GEOENGINEERS
8410 154th Avenue N.E.
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Contact: Matt Smith, P.E.


A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/18/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

| DES: AJH | DRW: SCY | CHK: MWS |
|---|---|---|

<<PM/DM>> JOSEPH KISIDAY
BRANCH MANAGER
CHIEF ENG/ARCH
<<XXX>>

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA
NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA
FY-15 MCON PROJECT P-259 P-8A AIRCRAFT APRON EXPANSION - PART A
BORING LOG(S)

SCALE:
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030301
SHEET 47 OF 302

B-132

DRAWFORM REVISION: 10 MARCH 2009

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/21/2014 | 5/21/2014 | 21.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10.2 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: Depth to Water (ft): Elevation (ft): Not encountered |

Notes:

Log of Boring GEI-15A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-16
Sheet 1 of 1

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/20/2014 | 5/20/2014 | 31.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 13.9 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: Depth to Water (ft): Elevation (ft): Not encountered |

Notes:

Log of Boring GEI-16A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-17
Sheet 1 of 1

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/21/2014 | 5/21/2014 | 21.5 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10.1 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: Depth to Water (ft): Elevation (ft): Not encountered |

Notes:

Log of Boring GEI-17A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-18
Sheet 1 of 1

| Drilled | Start | End | Total Depth (ft) | Logged By | Checked By | Driller | Drilling Method |
|---|---|---|---|---|---|---|---|
| | 5/21/2014 | 5/21/2014 | 22 | MWR | AJH | Geologic Drill | Hollow-Stem Auger |

| Surface Elevation (ft) Vertical Datum | Hammer Data | Drilling Equipment |
|---|---|---|
| 10.9 NASWI Base Datum | Autohammer 140 (lbs) / 30 (in) Drop | Diedrich D50 |

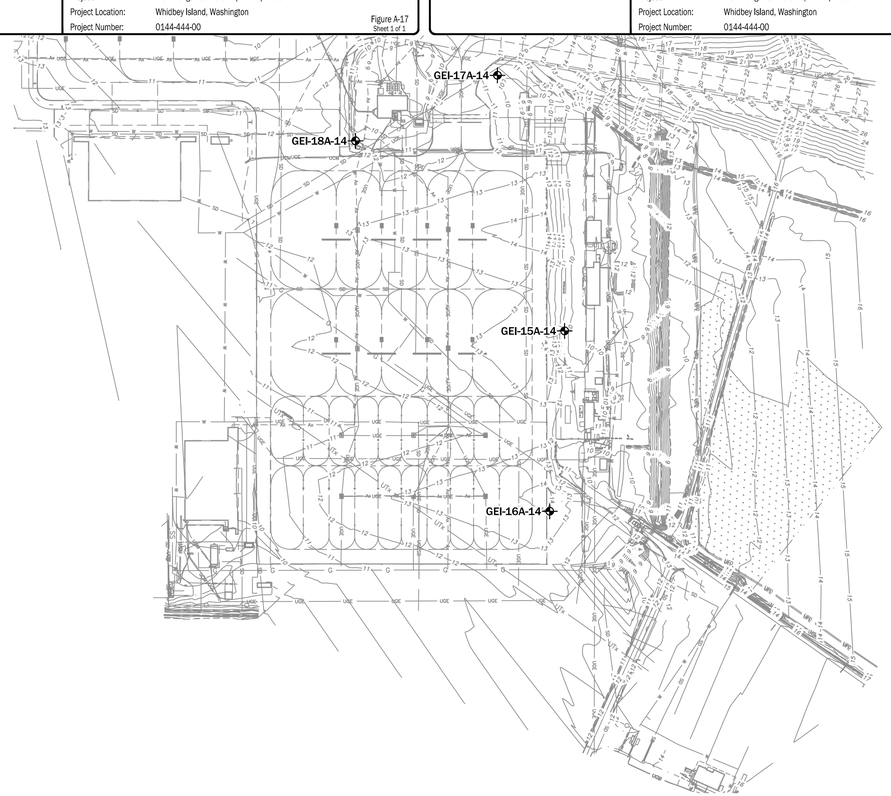
| Easting (X) Northing (Y) | System Datum | Groundwater |
|---|---|---|
| | NASWI Base Datum | Date Measured: Depth to Water (ft): Elevation (ft): Not encountered |

Notes:

Log of Boring GEI-18A-14

Project: P-8A Hangar & Aircraft Apron Expansion
Project Location: Whidbey Island, Washington
Project Number: 0144-444-00

Figure A-19
Sheet 1 of 1




**LEGEND:**

GEI-15A-14 BORING LOCATION

| BORING | SURVEY DESIGN SHEET |
|---|---|
| GEI-15A-14 | V-120 |
| GEI-16A-14 | V-116 |
| GEI-17A-14 | V-121 |
| GEI-18A-14 | V-114 |

1" = 200'
0 200 400 600

BORING LOG(S)
SCALE: 1"=200'

APPR | DATE | DESCRIPTION | SYM

NAVFAC

MATTHEW W. SMITH
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PROFESSIONAL ENGINEER
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Contact: Matt Smith, P.E.

A/E INFO

APPROVED
FOR COMMANDER NAVFAC 3/18/15

ACTIVITY
NAS WHIDBEY ISLAND

SATISFACTORY TO DATE

DES: AJH | DRW: SCY | CHK: MWS

<<PM/DM>> JOSEPH KISIDAY

BRANCH MANAGER

CHIEF ENG/ARCH

<<XXX>>

DEPARTMENT OF THE NAVY
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NAVAL AIR STATION WHIDBEY ISLAND

NAVAL FACILITIES ENGINEERING COMMAND ~ NORTHWEST
AULT FIELD - OAK HARBOR, WA

NAVAL AIR STATION WHIDBEY ISLAND
OAK HARBOR, WA

FY-15 MCON PROJECT P-259 P-8A AIRCRAFT
APRON EXPANSION - PART A

BORING LOG(S)

SCALE:
EPROJECT NO.:
CONSTR. CONTR. NO. N44255-15-C-6003
NAVFAC DRAWING NO. 16030302
SHEET 48 OF 302

B-133

DRAWFORM REVISION: 10 MARCH 2009