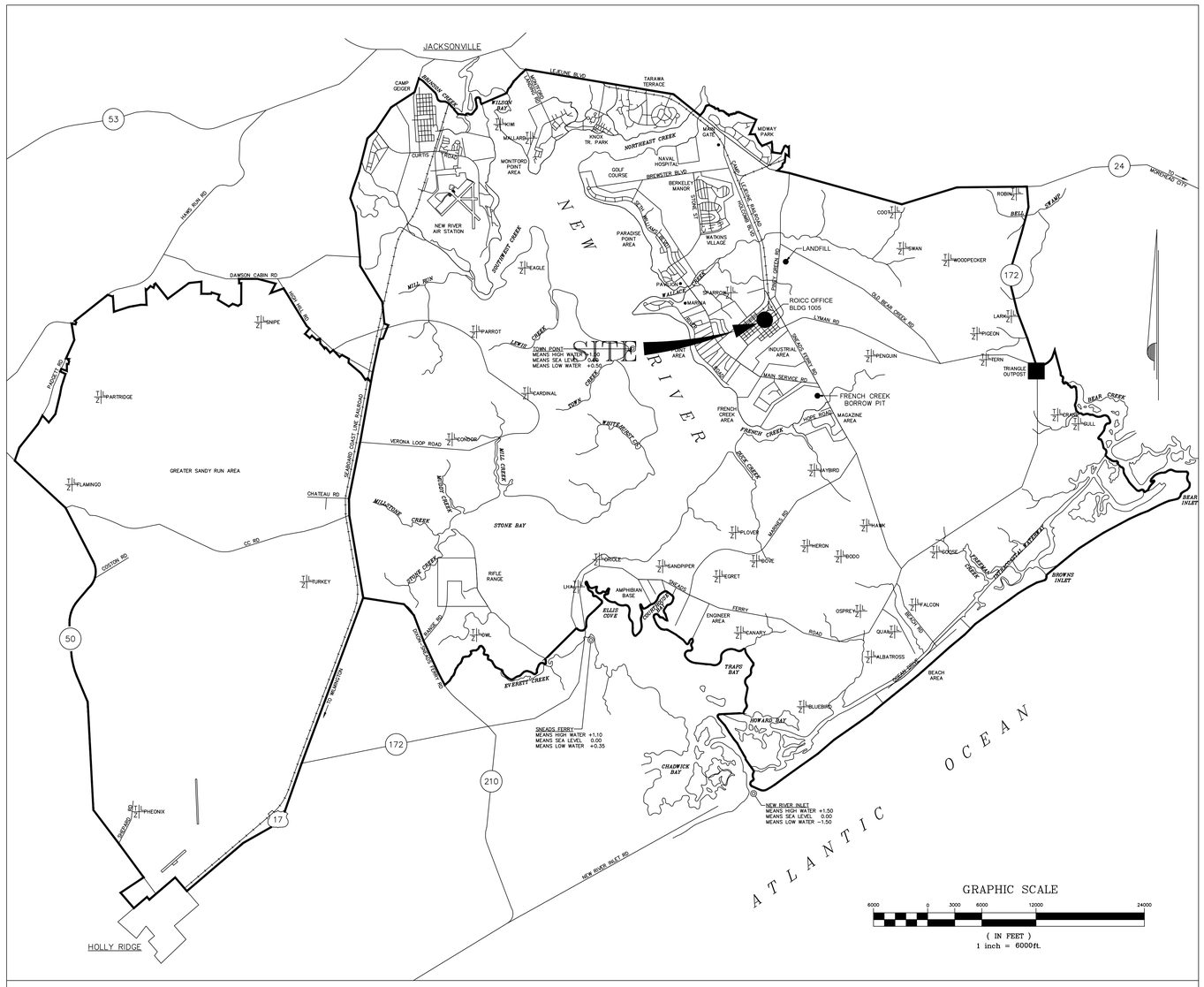
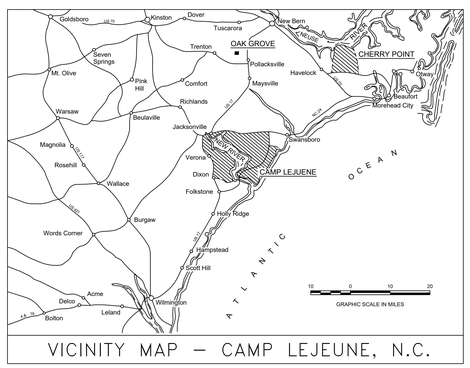


LOCATION MAP – U.S. MARINE CORPS BASE, CAMP LEJEUNE, N.C.

SCALE: 1" = 6000'



VICINITY MAP – CAMP LEJEUNE, N.C.

DRAWING INDEX		
NAVFAC DWG NO.	SHEET NO.	TITLE
60042566	G001	VICINITY AND LOCATION PLAN
60042567	C100	EXISTING CONDITIONS
60042568	C101	SITE WORK

DEPARTMENT OF THE NAVY · UNITED STATES MARINE CORPS ·

26-0003
BUILDING 1005
WATER LINE REPAIRS

DISCLOSURE OF INFORMATION

CONTRACTOR SHALL COMPLY AS FOLLOWS:

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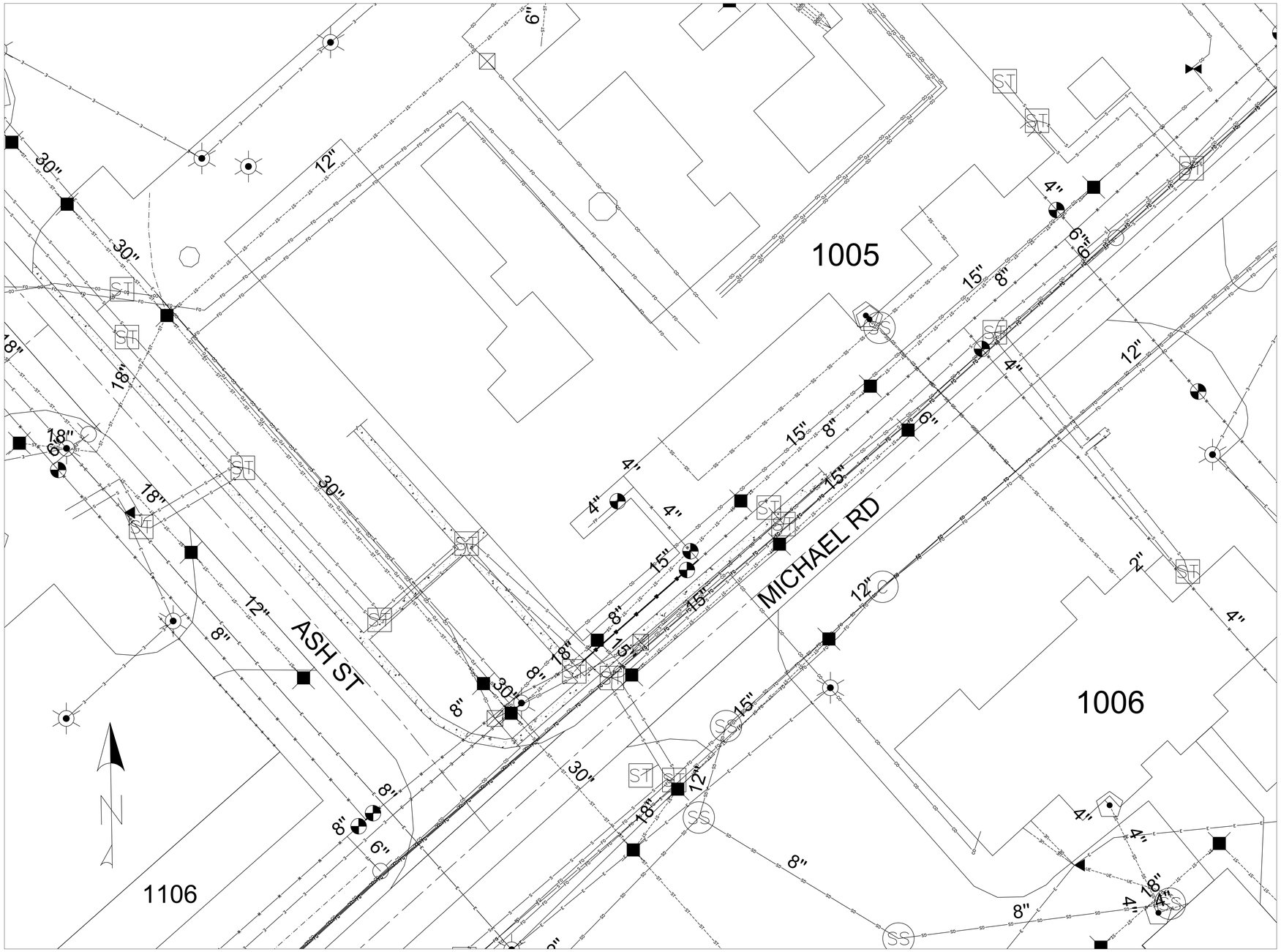
FINAL

G001

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. M. HORNE	26-0003 BUILDING 1005 WATER LINE REPAIRS
DR. M. HORNE	VICINITY AND LOCATION PLAN
CHK. C. MAAS, PE	
SUBMITTED BY: M. HORNE	
DESIGN DIR. C. MAAS, PE	
DATE: 3/31/2026	SIZE E1 · CODE IDENT NO. 80091 · PWO DRAWING NO. 60042566
MAAS.CHRISTOPHER.JETT.1558604727 Digitally signed by MAAS.CHRISTOPHER.JETT.1558604727 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=DoD, cn=MAAS.CHRISTOPHER.JETT.1558604727 Date: 2026.05.18 10:49:29 -04'00'	CONST. CONTR. NO. N40085-26-B-0003
	SCALE: AS SHOWN · SPEC. 05-26-0003 · SHEET 1 OF 3



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING, PRIOR TO GROUND DISTURBING ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
3. PRESERVE AND PROTECT ALL EXISTING UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, INCLUDING TELECOMMUNICATIONS AND COMMERCIAL CABLING.
5. CONTRACTOR IS RESPONSIBLE TO COORDINATE COMMERCIAL CABLING WITH COMMERCIAL CABLING PROVIDERS
6. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND BASE CODES.
7. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH RESIDENT OFFICER IN CHARGE OF CONSTRUCTION (ROICC).
8. SOD ANY DISTURBED AREAS UPON COMPLETION OF CONSTRUCTION.
9. JOBSITE SHALL BE KEPT CLEAR OF ALL DEBRIS AND TRASH.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF ENVIRONMENTAL, HEALTH AND SAFETY (EHS). CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ITS POLICIES AND PROCEDURES RELATED TO EHS MATTERS..

LEGEND

- WALL
- FENCE
- W — WATER MAIN LINE
- WS — WATER SERVICE LINE
- FP — WATER FIRE PROTECTION LINE
- GLOBE VALVE
- GATE VALVE
- FIRE HYDRANT
- T — TELECOMMUNICATIONS
- FO — FIBER OPTIC
- COMMUNICATIONS SPLICE
- RISER
- C — COMMUNICATION MANHOLE
- CS — WASTEWATER GRAVITY MAIN
- FM — WASTEWATER FORCE MAIN
- SS — SANITARY SEWER MANHOLE
- PUMP STATION
- ST — STORMWATER PIPE
- STORMWATER DITCH/SWALE
- D — STORMWATER MANHOLE
- STORMWATER INLET
- STORMWATER HEADWALL
- E — OVERHEAD ELECTRIC
- UE — UNDERGROUND ELECTRIC
- E — ELECTRICAL MANHOLE
- CIRCUIT BREAKER
- ELECTRICAL DISCONNECT
- SINGLE PHASE TRANSFORMER
- FUSE CUTOUT
- M — ELECTRIC METER
- TRANSFORMER PAD
- G — GENERATOR
- S — SWITCH
- ROADS/DRIVEWAY/PARKING
- ROADWAY CENTERLINE
- AIRFIELD SURFACE
- BUILDING
- ST — STEAM PIT
- C — CONDENSATION LINE
- S — STEAM LINE

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FINAL

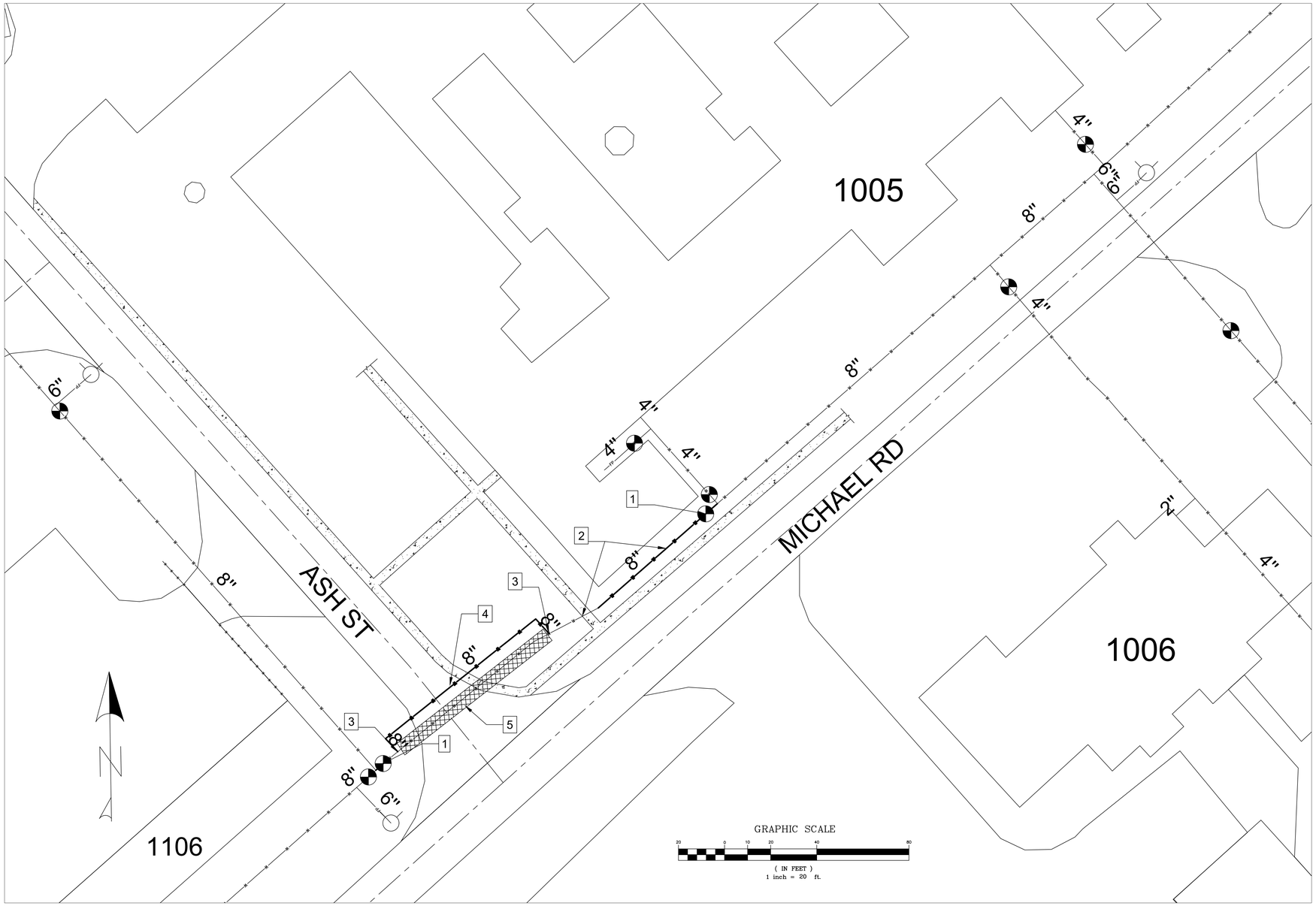
C100

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

DES. M. HORNE	26-0003
DR. M. HORNE	BUILDING 1005
CHK. C. MAAS, PE	WATER LINE REPAIRS
SUBMITTED BY: M. HORNE	EXISTING CONDITIONS
DESIGN DIR. C. MAAS, PE	
DATE: 3/31/2026	SIZE E1 · CODE IDENT NO. 80091 · PWO DRAWING NO. 60042567
Christopher Maas 18-Jun-2026	CONST. CONTR. NO. N40085-26-B-0003 · SCALE: AS SHOWN · SPEC. 05-26-0003 · SHEET 2 OF 3



ALL OUTAGES MUST OCCUR OVER A WEEKEND OR
OUTSIDE OF WORKING HOURS TO MINIMIZE CUSTOMER IMPACTS

GENERAL NOTES:

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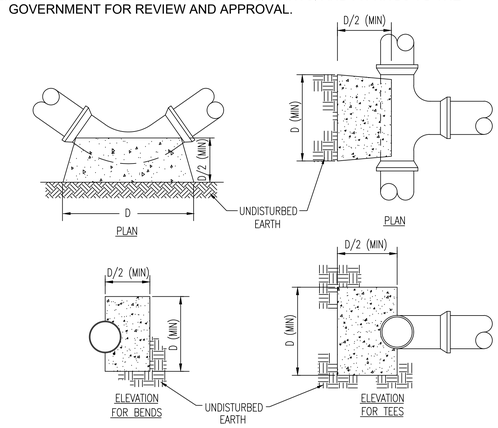
NEW WORK KEYNOTES:

1	CONNECT NEW 8" C900 PIPE TO EXISTING VALVE
2	DEMOLISH EXISTING 8" WATER MAIN PROVIDE AND INSTALL NEW 8" C900 PIPE IN ITS PLACE.
3	TERMINATE OPEN CUT AND DEMOLITION OF EXISTING 8" WATER MAIN CONTINUE INSTALLATION OF NEW C900 PIPE UNDER EXISTING ROAD BY BORING UNDERNEATH THE ROADWAY. ABANDON OLD PIPE BENEATH THE ROAD BY CAPPING AND GROUTING.
4	NEW 8" C900 BORED UNDERNEATH ROADWAY. PROVIDE 16" CASING WITH MINIMUM WALL THICKNESS OF 0.375" GRADE 2 OR 3. CARRY PIPE SHALL BE CENTERED USING NON-METALLIC SPACERS.
5	SECTION TO BE ABANDONED IN PLACE, GROUTED AND CAPPED.

NEW WORK NOTES:

1. REMOVE ALL EXISTING 8" WATER PIPE WHERE OPEN CUT IS ALLOWED AS NOTED. THE SEGMENT BENEATH ASH STREET IS TO BE ABANDONED IN PLACE, GROUTED, AND CAPPED SO NOT TO DISTURB THE EXISTING ASPHALT AND CURBING.
2. PROVIDE AND INSTALL NEW 8" C900 WATER PIPE IN PLACE OF THE OLD WATER PIPE AS IT IS REMOVED. CONNECT NEW WATER PIPE TO VALVE LOCATED IN FRONT OF BUILDING 1005 TO THE VALVE LOCATED ON THE WEST SIDE OF ASH STREET AT BUILDING 1106.
3. PIPE JOINTS SHALL BE PUSH-ON RESTRAINED JOINTS. MECHANICAL JOINT FITTINGS SHALL BE DOUBLE RESTRAINED. PROVIDE CONCRETE THRUST BLOCKS AT ALL FITTINGS AND VALVES IN ACCORDANCE WITH THE DETAIL ON THIS SHEET.
4. ALL FITTINGS SHALL BE DUCTILE IRON, CONFORMING OT AWWA C153 OR C110 CEMENT-MORTAR LINED PER AWWA C104.
5. PROVIDE MINIMUM 36" COVER UNLESS OTHERWISE SPECIFIED.
6. PROVIDE 57 STONE PIPE BEDDING. ALL FILL PLACED SHALL BE COMPACTED IN 6" LIFTS COMPACTED TO 90% MODIFIED PROCTOR IN NON-PAVED AND 95% UNDER SIDEWALKS OR OTHER PAVED AREAS. PROVIDE ALL COMPACTION TESTS TO THE GOVERNMENT FOR REVIEW AND APPROVAL.
7. EXISTING WATER LINE SHALL REMAIN IN SERVICE UNTIL NEW LINE IS INSTALLED, TESTED, DISINFECTED, AND APPROVED. CHLORINATION, FLUSHING, AND BACTERIOLOGICAL TESTING IS REQUIRED. PROVIDE ALL TEST RESULTS TO GOVERNMENT FOR REVIEW AND APPROVAL PRIOR TO PLACING LINE INTO SERVICE.
8. NEW WATER LINE SHALL BE HYDROSTATICALLY PRESSURE TESTED TO MINIMUM 150 PSI.
9. ANY SIDEWALKS OR WALKWAYS DISTURBED DURING CONSTRUCTION MUST BE REPAIRED, TO INCLUDE THE TOP OF THE EXISTING STEAM TUNNEL THAT IS USED AS A SIDEWALK.
10. CONCRETE HEADWALLS MUST BE CONSTRUCTED ON BOTH SIDES OF THE STEAM TUNNEL WHERE NEW WATER PIPE IS INSTALLED THROUGH IT. DRILL AND INSTALL PINS 12" IN LENGTH WITH #5 REBAR 12" O.C. AND CONNECT TO EXISTING WALLS. FLUSH HOLES WITH WATER, SET PINS IN EPOXY ADHESIVE, AND COAT EXTENDED PINS WITH METAL PRIMER.
11. ANY PORTION OF STORM DRAIN THAT IS DISTURBED OR DAMAGED DURING CONSTRUCTION MUST BE REPAIRED.
12. PROVIDE ALL PRODUCT DATA FOR PIPE, JOINTS, AND FITTINGS TO THE GOVERNMENT FOR REVIEW AND APPROVAL.



THRUST BLOCK DIMENSION D (IN FEET)					
NOM. PIPE DIA.	TEES & DEAD ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2"	1.6	1.5	1.0	0.8	0.8
4"	1.9	1.9	1.4	1.0	1.0
6"	2.8	2.8	2.1	1.5	1.1
8"	3.8	3.8	2.8	2.0	1.5
10"	4.7	4.7	3.5	2.5	1.8
12"	5.9	5.9	4.3	3.1	2.2

NOTE:
PROVIDE THRUST BLOCKING AT ALL FITTINGS AND VALVES IN ACCORDANCE WITH THIS DETAIL.

THRUST BLOCKING DETAIL
N.T.S.

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FINAL

C101

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES. M. HORNE
DR. M. HORNE
CHK. C. MAAS, PE
SUBMITTED BY: M. HORNE
DESIGN DIR. C. MAAS, PE
DATE: 3/31/2026

26-0003
BUILDING 1005
WATER LINE REPAIRS
SITE WORK

SIZE E1 | CODE IDENT NO. 80091 | PWO DRAWING NO. 60042568
CONST. CONTR. NO. N40085-26-B-0003
SCALE: AS SHOWN | SPEC. 05-26-0003 | SHEET 3 OF 3

Christopher Maas 18-Jun-2026