

# FORT ORD REUSE AUTHORITY

## WATER AND SEWER REMOVAL AND ABANDONMENT

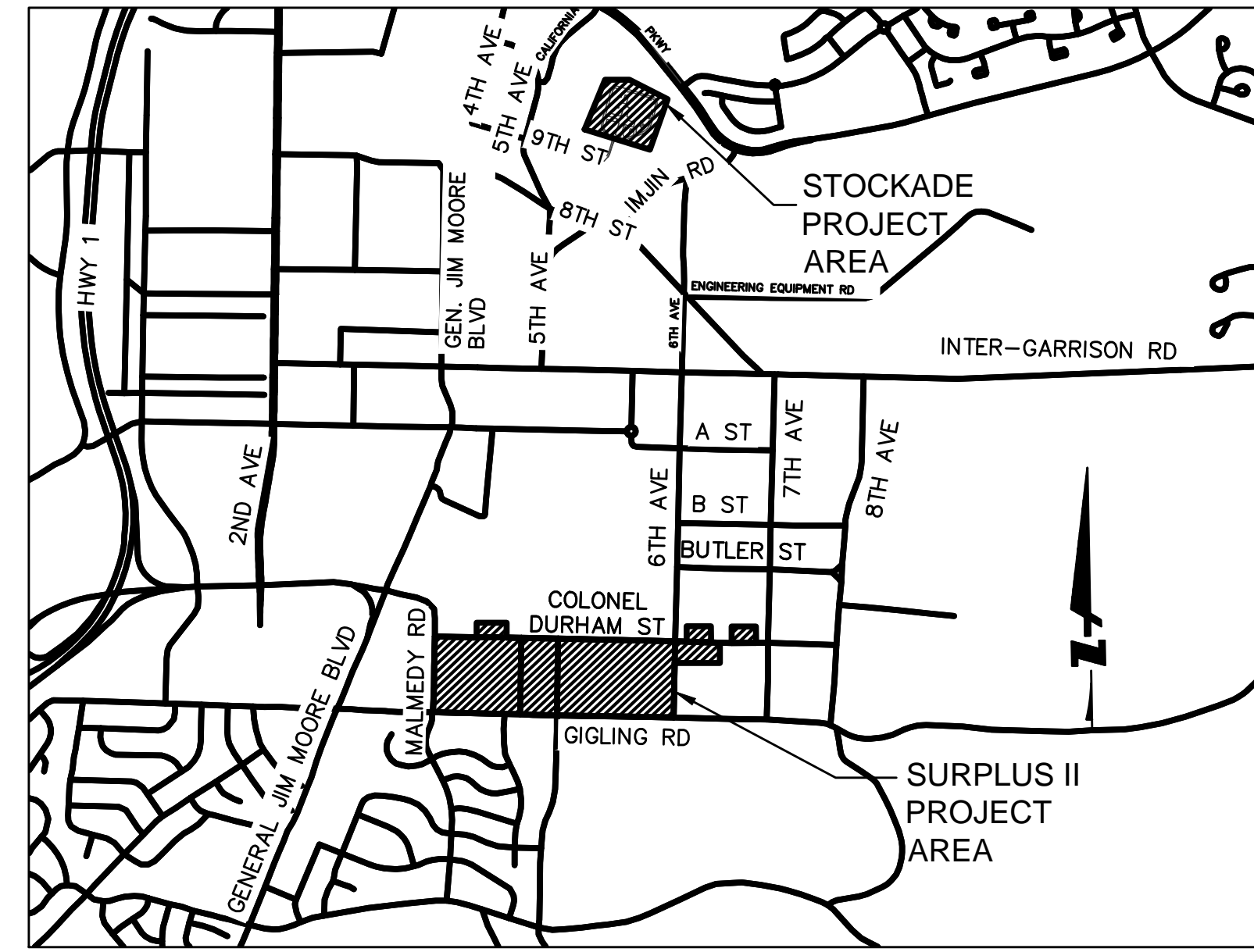
### CITY OF SEASIDE AND CITY OF MARINA, MONTEREY COUNTY, CALIFORNIA

**SHEET INDEX**

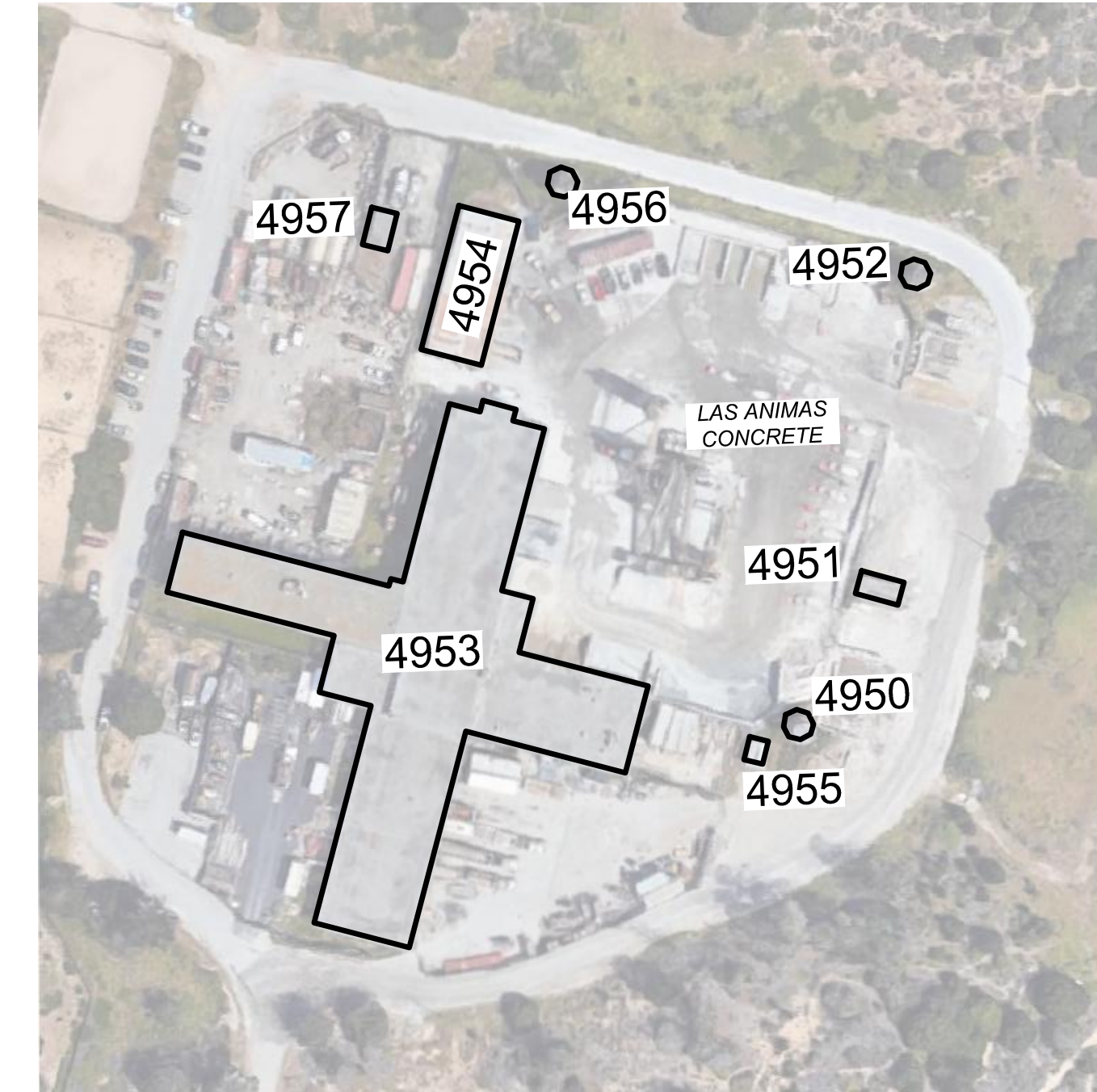
1	TITLE SHEET
2	NOTES
3	SURPLUS II – UTILITY ABANDONMENT AND PROTECTION PLAN SANITARY SEWER- WATER-STORM DRAIN – 1
4	SURPLUS II – UTILITY ABANDONMENT AND PROTECTION PLAN SANITARY SEWER- WATER-STORM DRAIN – 2
5	SURPLUS II – UTILITY ABANDONMENT AND PROTECTION PLAN SANITARY SEWER- WATER-STORM DRAIN – 3
6	STOCKADE – UTILITY ABANDONMENT AND PROTECTION PLAN
7-8	CONSTRUCTION DETAILS
9-11	SURPLUS II- EROSION CONTROL
12	STOCKADE- EROSION CONTROL

**ABBREVIATIONS**

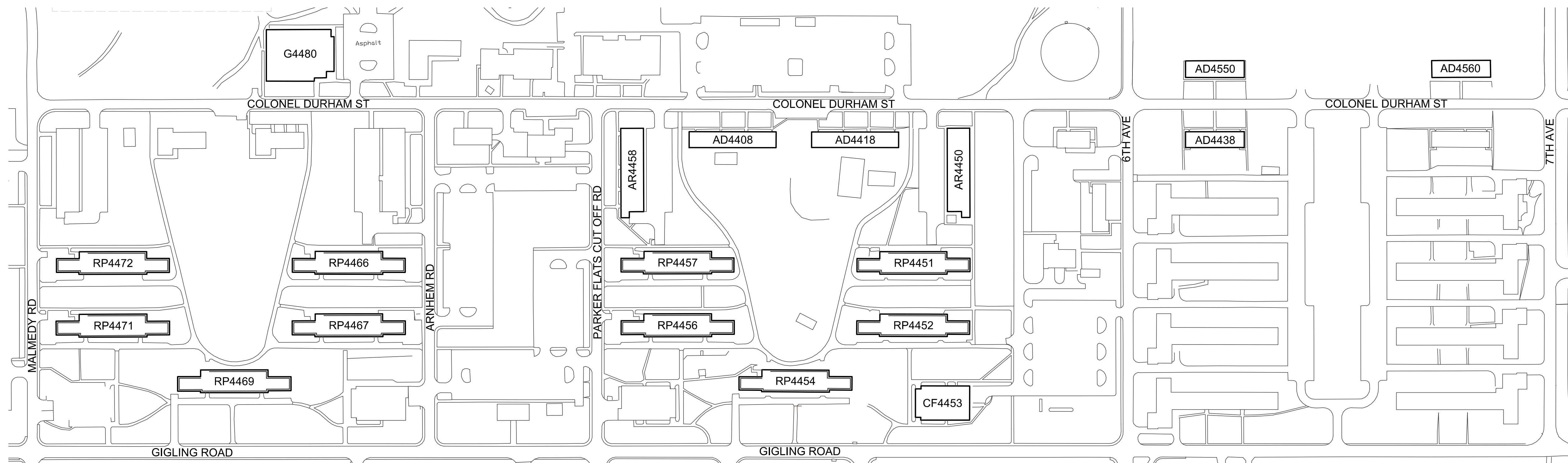
AC	ASPHALT CONCRETE
AD	ADMINISTRATION BUILDING
AR	ARMORY BUILDING
ACM	ASBESTOS CONTAINING MATERIAL
CF	CAFETERIA BUILDING
CG	CURB AND GUTTER
CO	CLEANOUT
CONC	CONCRETE
CY	CUBIC YARD
E	ELECTRICAL
EX (E)	EXISTING
EMH	ELECTRICAL MANHOLE
FORA	FORT ORD REUSE AUTHORITY
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
HB	HOSE BIBB
INV	INVERT ELEVATION
JP	JOINT POLE
JT	JOINT TRENCH
LF	LINEAR FEET
MBUAPCD	MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT
MIN	MINIMUM
OH	OVERHEAD
RIM	RIM ELEVATION
RP	ROLLING PIN BUILDING
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
TEL	TELEPHONE
TPZ	TREE PROTECTION ZONE
TYP	TYPICAL
W	WATER
WV	WATER VALVE



LOCATION MAP  
NTS

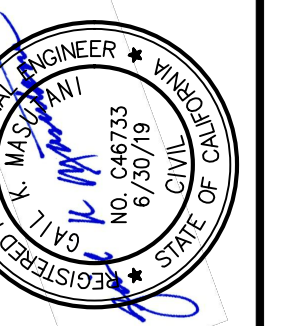
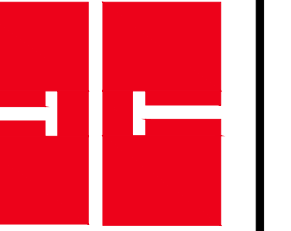


SITE PLAN: STOCKADE  
NTS



SITE PLAN: SURPLUS II  
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WATER AND SEWER  
REMOVAL AND ABANDONMENT  
TITLE SHEET

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S201-IBT3, 12-17-18

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**GENERAL KEYNOTES**

- 101 GROUT PLUG AND ABANDON EXISTING SANITARY SEWER LINES/LATERALS
- 102 REMOVE EXISTING FIRE HYDRANT.
- 103 ABANDON EXISTING WATER LINE

**PROTECT:**

- 202 PROTECT EXISTING SANITARY SEWER LINE AND STRUCTURES
- 205 PROTECT EXISTING FIRE HYDRANT
- 206 PROTECT EXISTING WATER LINE AND ASSOCIATED APPARATUS
- 208 PROTECT EXISTING STORM DRAIN LINE AND STRUCTURES SEE EROSION CONTROL PLAN FOR MORE INFORMATION

**WATER**

- W1 W8 W16 CLOSE EXISTING GATE VALVE. INSTALL BLIND FLANGE AND THRUST BLOCK. SEE DETAIL (5/7)

- W2 INSTALL 90° ELBOW AND TEE. SEE DETAIL (3/7)

- W3 W4 W5 W6 W7 W10 W11 W12 W14 CONSTRUCT STRAIGHT LINE CONNECTION. SEE DETAIL (2/7)

- W15 (1/7)

- W9 INSTALL 90° ELBOW. SEE DETAIL (4/7)

- W13 CUT AND PLUG WATER MAIN AND INSTALL THRUST BLOCK. SEE DETAIL (1/7)

**SEWER**

- S1 - S9 PROTECT EXISTING SANITARY MANHOLE. PLUG ABANDON SEWER LINES AND RE-CHANNEL SEWER BENCH (1/8)

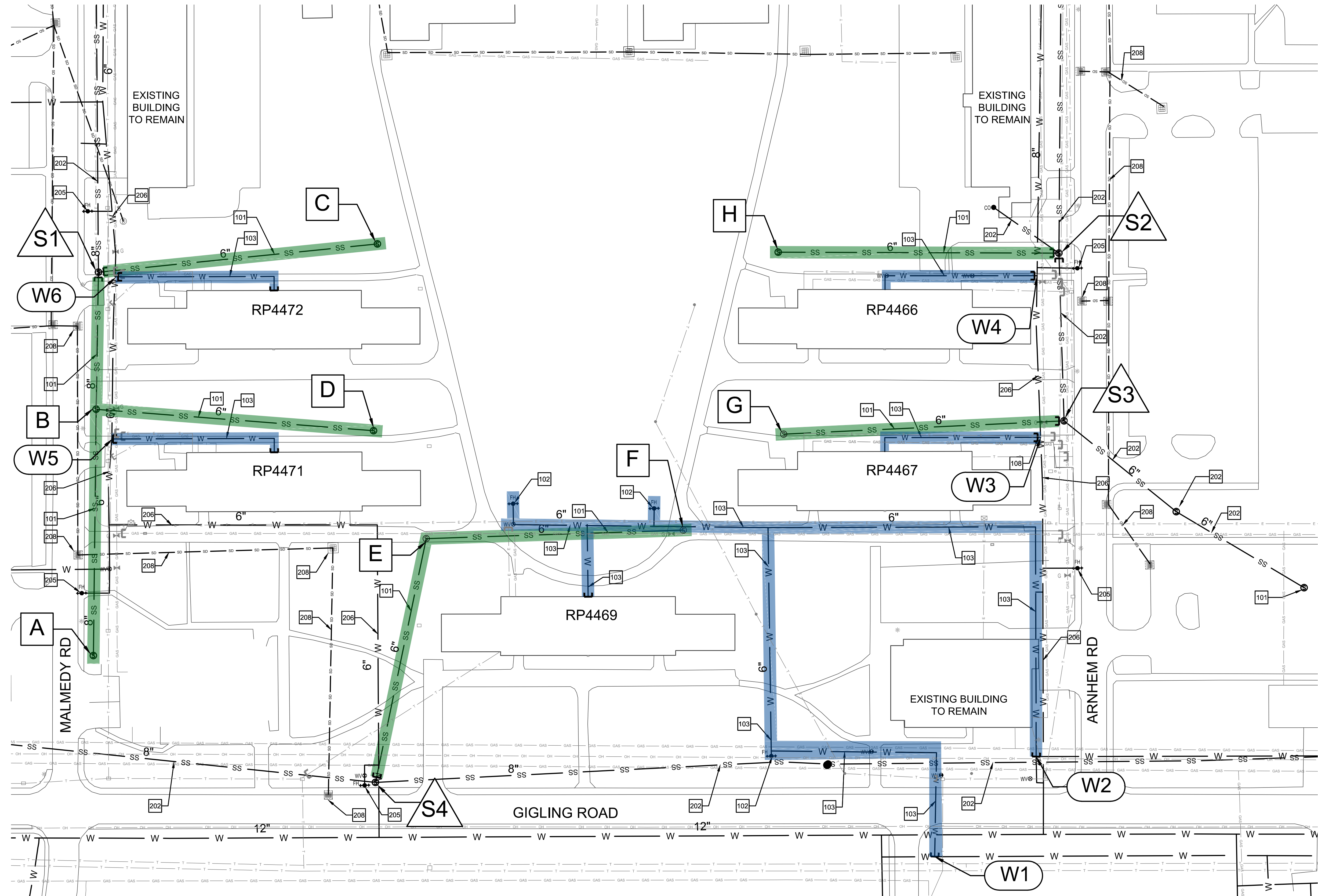
- A - X GROUT PLUG AND ABANDON EXISTING SANITARY SEWER MANHOLES. SEE DETAIL (2/8)

**ABANDONED UTILITIES**

- Water (Blue line)
- Sewer (Green line)

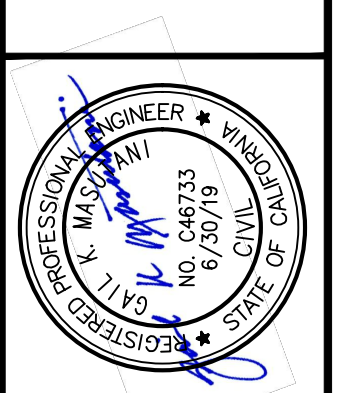
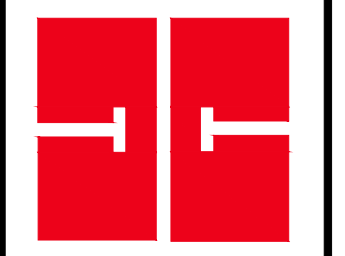
**NOTES**

1. PROTECT ALL TELEPHONE, ELECTRIC AND GAS UTILITIES.
2. PROTECT SIDEWALK, CURB, AND GUTTER. IF NECESSARY, REPLACE IN KIND TO ORIGINAL CONDITION OR BETTER.



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**WATER AND SEWER**  
**REMOVAL AND ABANDONMENT**  
**SURPLUS II - UTILITY ABANDONMENT AND PROTECTION PLAN**  
**SANITARY SEWER- WATER-STORM DRAIN - 1**

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- 103 ABANDON EXISTING WATER LINE

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WATER

- W1 W8 W16 CLOSE EXISTING GATE VALVE, INSTALL BLIND FLANGE AND THRUST BLOCK. SEE DETAIL (5/7)
- W2 INSTALL 90° ELBOW AND TEE. SEE DETAIL (3/7)
- W3 W4 W5 CONSTRUCT STRAIGHT LINE CONNECTION. SEE DETAIL (2/7)
- W6 W7 W10
- W11 W12 W14
- W15
- W9 INSTALL 90° ELBOW. SEE DETAIL (4/7)
- W13 CUT AND PLUG WATER MAIN AND INSTALL THRUST BLOCK. SEE DETAIL (1/7)

SEWER

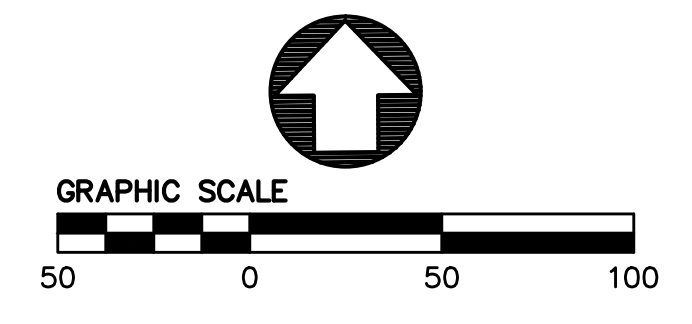
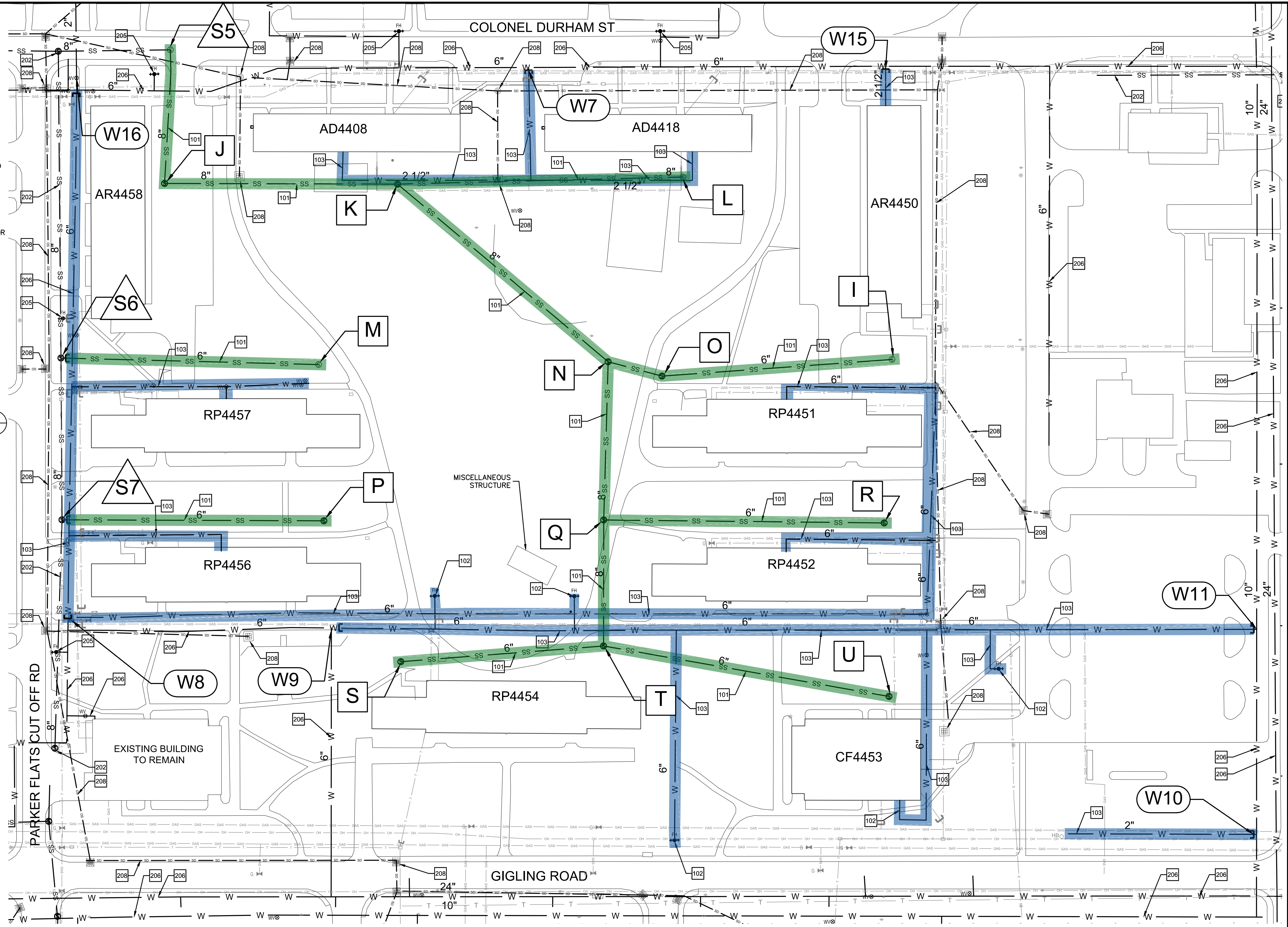
- S1 - S9 PROTECT EXISTING SANITARY MANHOLE. PLUG ABANDON SEWER LINES AND RE-CHANNEL SEWER BENCH (1/8)
- A - X GROUT PLUG AND ABANDON EXISTING SANITARY SEWER MANHOLES. SEE DETAIL (2/8)

ABANDONED UTILITIES



NOTES

1. PROTECT ALL TELEPHONE, ELECTRIC AND GAS UTILITIES.
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**WATER AND SEWER  
 REMOVAL AND ABANDONMENT  
 SURPLUS II - UTILITY ABANDONMENT AND PROTECTION PLAN  
 SANITARY SEWER- WATER-STORM DRAIN - 2**

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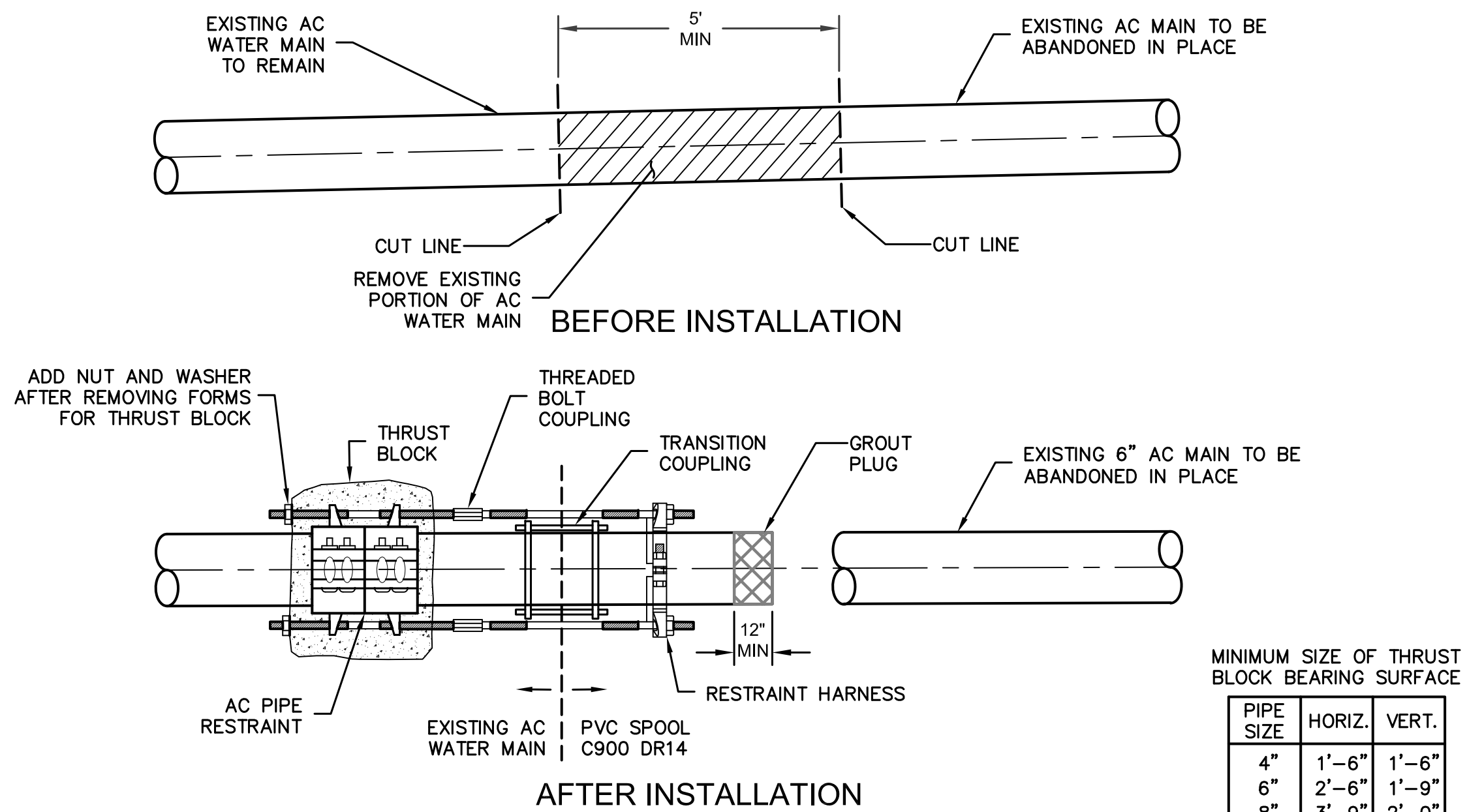










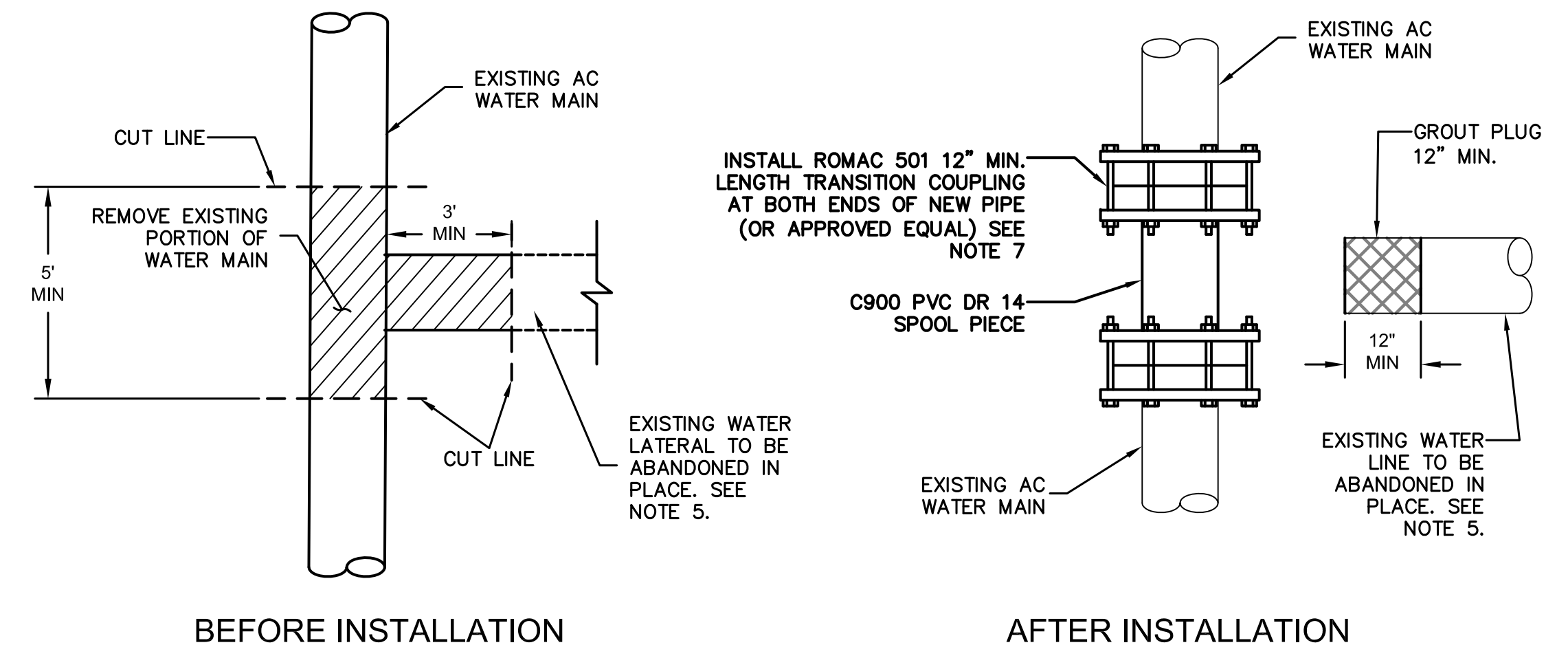


- NOTES**
1. ALL GROUT PLUGS SHALL BE CONCRETE.
  2. ABANDONED MAINS LARGER THAN 8" IN DIAMETER SHALL BE PLUGGED AND FILLED WITH FLOWABLE FILL. MAINS 8" AND SMALLER SHALL BE GROUT PLUGGED AND LEFT EMPTY. SEE SPECIFICATION 33 04 00.
  3. SEE PROJECT SPECIFICATIONS FOR REMOVAL AND/OR HANDLING OF ASBESTOS CONTAINING MATERIALS.
  4. BOLT ON AC PIPE RESTRAINER (JCM 630 OR APPROVED EQUIVALENT) WITH THREADED TIE BOLTS. ALL BOLTS AND HARDWARE SHALL BE TYPE 316 SS.
  5. CAST THRUST BLOCK AROUND AC PIPE RESTRAINER AND ALLOW TO CURE. CONCRETE SHALL BE 2000 PSI 28 DAY COMPRESSIVE STRENGTH.
  6. CUT AC PIPE AND COUPLE NEW PIPE WITH TRANSITION COUPLING (ROMAC 501 OR APPROVED EQUIVALENT).
  7. INSTALL RESTRAINT HARNESS AND INSTALL TIE BOLTS SO THAT A THREADED BOLT COUPLER CAN BE USED TO JOIN TIE BOLTS FROM AC PIPE RESTRAINER. MATCH BOLT DIAMETER OF AC PIPE RESTRAINER.
  8. ALL FITTINGS SHALL BE PROTECTED WITH WAX-TAPE COATING PER AWWA C217 AND POLYETHYLENE WRAP IN ACCORDANCE WITH AWWA C105.

MINIMUM SIZE OF THRUST BLOCK BEARING SURFACE

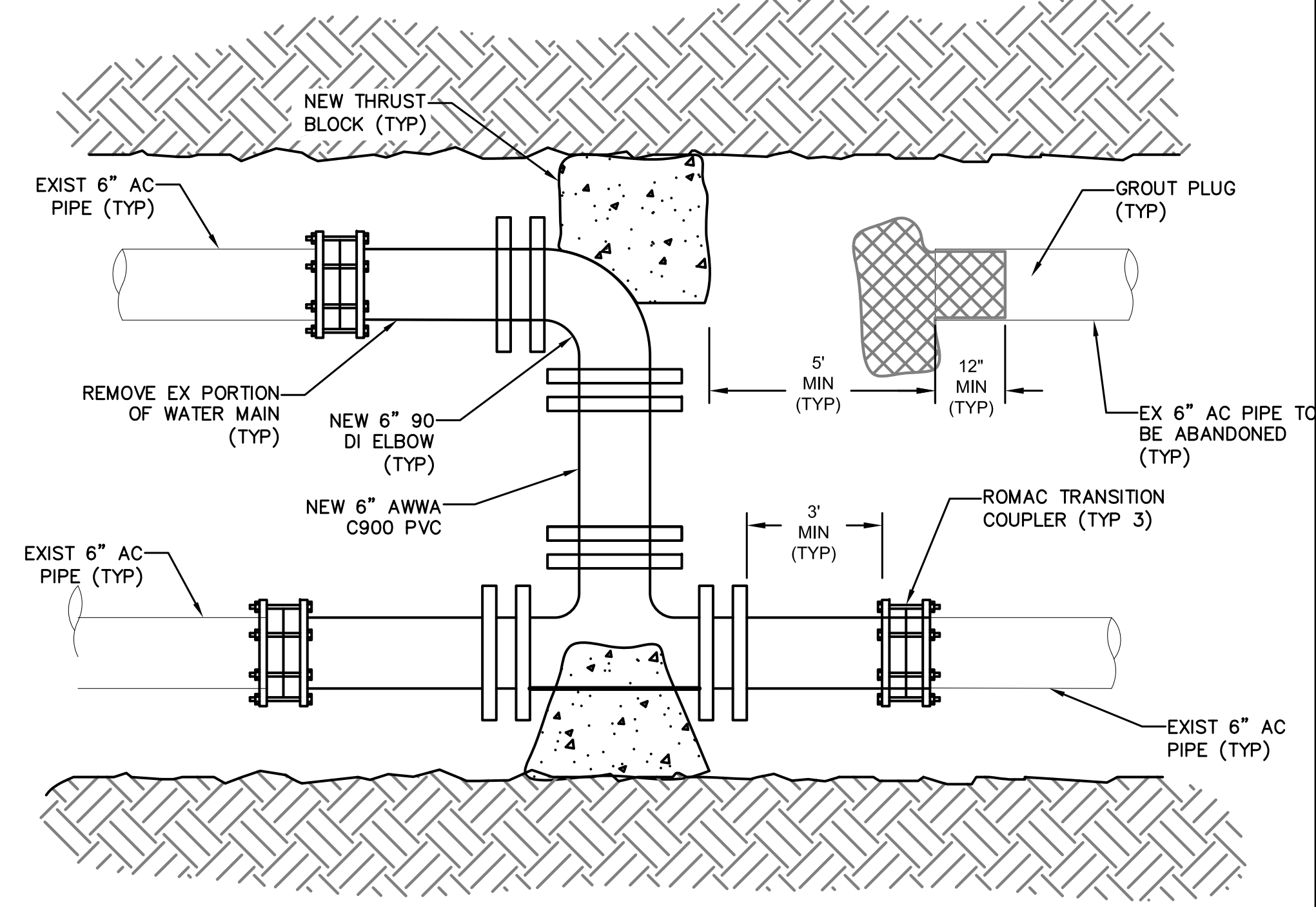
PIPE SIZE	HORIZ.	VERT.
4"	1'-6"	1'-6"
6"	2'-6"	1'-9"
8"	3'-9"	2'-0"
10"	4'-6"	2'-6"
12"	5'-3"	3'-0"

**1** **CUT AND PLUG**  
NTS



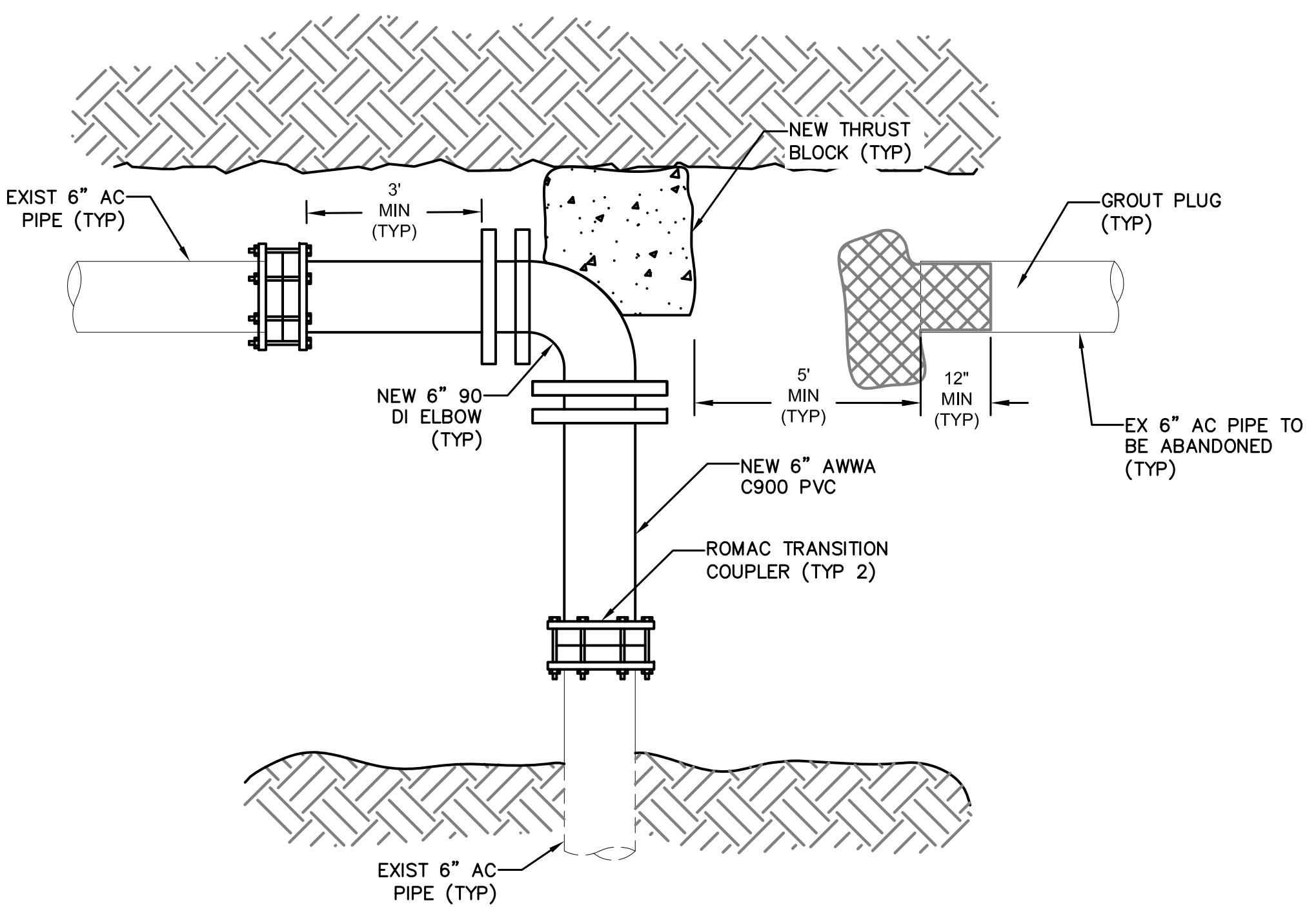
- NOTES**
1. CONTRACTOR SHALL CONTACT MARINA COAST WATER DISTRICT (MCWD) BEFORE WORK BEGINS. MCWD SHALL ISOLATE MAINS.
  2. CONTRACTOR TO INSPECT PIPE FOR LEAKS AFTER INSTALLATION IS COMPLETE.
  3. CONTRACTOR TO BE RESPONSIBLE FOR TRAFFIC CONTROL.
  4. ALL GROUT PLUGS SHALL BE CONCRETE, 2000 PSI 28 DAY COMPRESSIVE STRENGTH.
  5. ABANDONED MAINS LARGER THAN 8" IN DIAMETER SHALL BE PLUGGED AND FILLED WITH FLOWABLE FILL. MAINS 8" AND SMALLER SHALL BE GROUT PLUGGED AND LEFT EMPTY. SEE SPECIFICATION 33 04 00.
  6. SEE SPECIFICATIONS FOR REMOVAL AND/OR HANDLING OF ASBESTOS CONTAINING MATERIAL.
  7. CONTRACTOR TO INSTALL TRANSITION COUPLING PER MANUFACTURER'S RECOMMENDATIONS.
  8. SEE DWGS FOR PIPE SIZES OF RUN AND BRANCH.
  9. TRANSITION COUPLING SHALL BE WAX-TAPE COATED PER AWWA C217.

**2** **WATER STRAIGHT LINE MAINLINE REPAIR**  
NTS



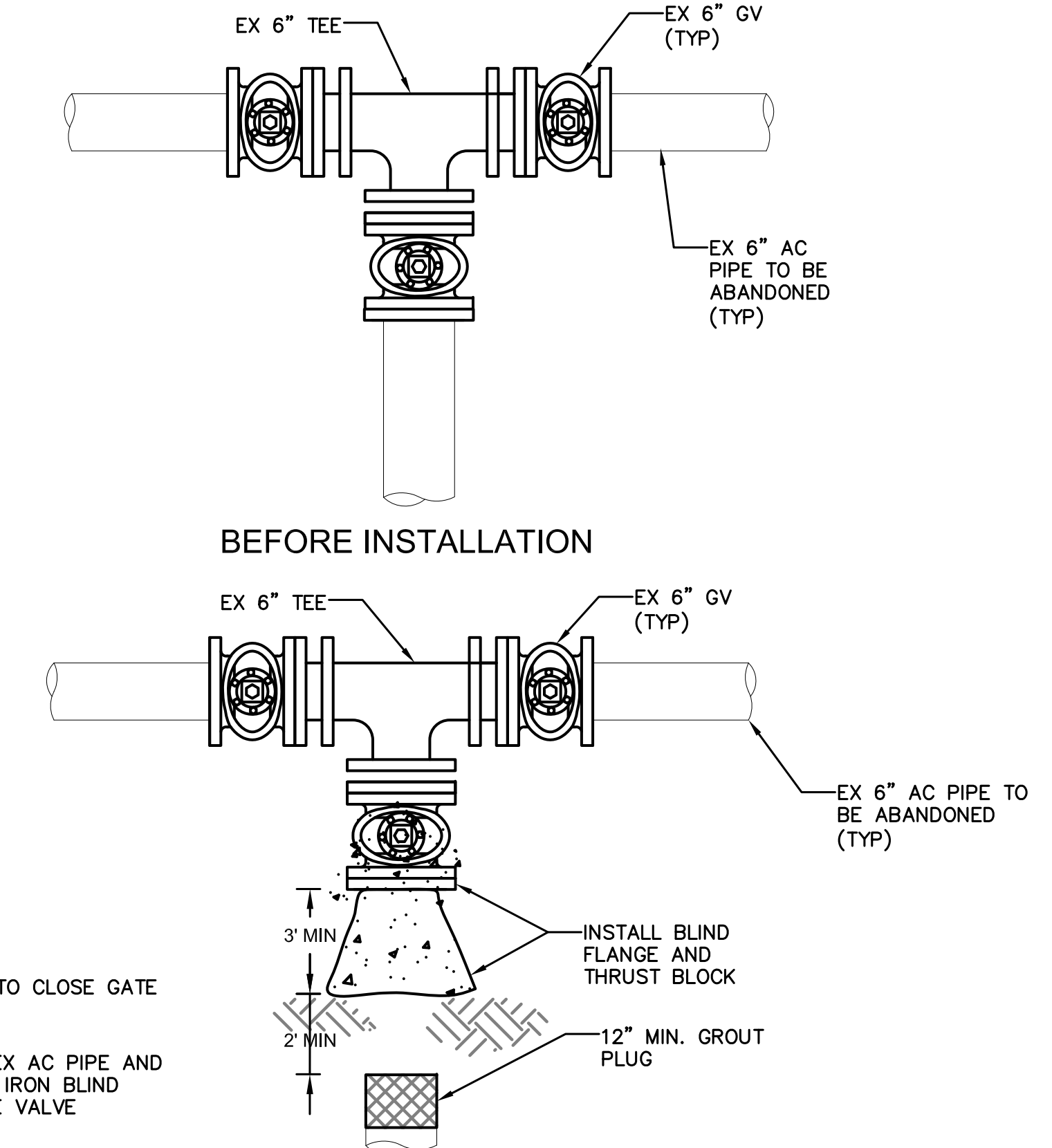
- NOTES**
1. ALL DUCTILE IRON FITTINGS SHALL MEET THE REQUIREMENTS IN AWWA C210 AND BE INSTALLED WITH WAX-TAPE COATING PER AWWA C217 AND POLYETHYLENE WRAP PER AWWA C105. FITTINGS SHALL BE MECHANICAL JOINT.
  2. ALL NEW PVC PIPE SHALL MEET THE REQUIREMENTS IN AWWA C900 PVC DR14.
  3. THRUST BLOCKS SHALL BE INSTALLED PER MCWD STD DWG W013.

**3** **90 DEGREE ELBOW AND TEE**  
NTS



- NOTES**
1. ALL DUCTILE IRON FITTINGS SHALL MEET THE REQUIREMENTS IN AWWA C210 AND BE INSTALLED WITH WAX-TAPE COATING PER AWWA C217 AND POLYETHYLENE WRAP PER AWWA C105. FITTINGS SHALL BE MECHANICAL JOINT.
  2. ALL NEW PVC PIPE SHALL MEET THE REQUIREMENTS IN AWWA C900 PVC DR14.
  3. THRUST BLOCKS SHALL BE INSTALLED PER MCWD STD DWG W013.

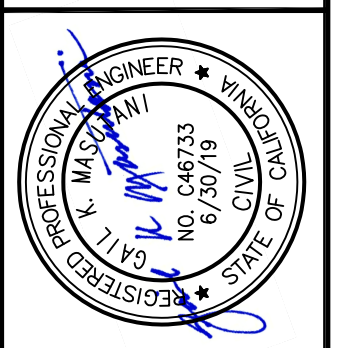
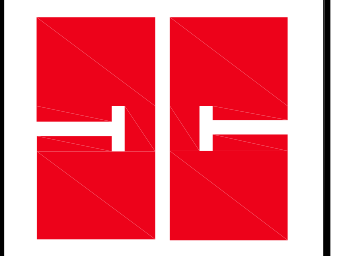
**4** **90 DEGREE ELBOW**  
NTS



- NOTES**
1. CONTACT MCWD TO CLOSE GATE VALVE
  2. REMOVE MIN 3' EX AC PIPE AND INSTALL DUCTILE IRON BLIND BLANGE ON GATE VALVE
  3. WAX TAPE COAT BLIND FLANGE CONNECTION PER AWWA C217 AND INSTALL THRUST BLOCK PER MCWD STD DWB W-13

**5** **BLIND FLANGE AND THRUST BLOCK**  
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WATER AND SEWER  
REMOVAL AND ABANDONMENT  
CONSTRUCTION DETAILS

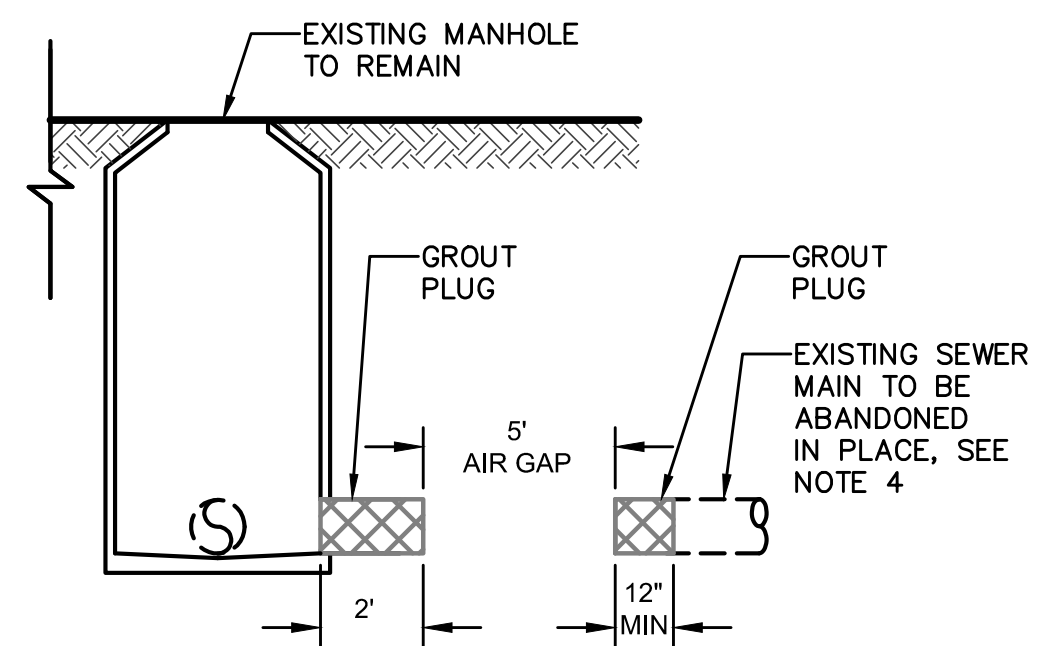
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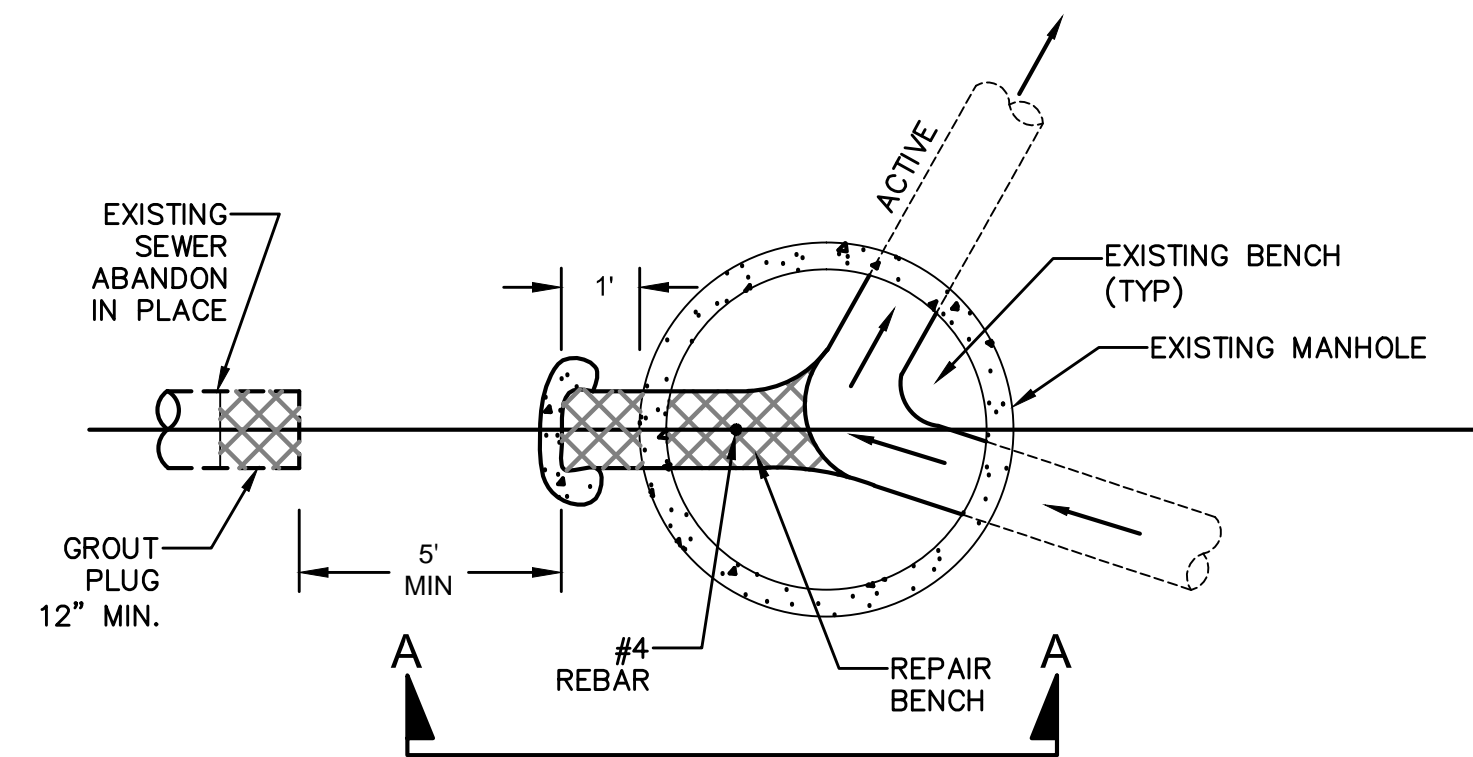




MANHOLE CONNECTED TO ACTIVE MAIN

**NOTES**

1. CONTRACTOR SHALL PLUG LATERALS TO BE ABANDONED WITH GROUT PLUG.
2. GROUT PLUG SHALL BE FLUSH WITH THE INSIDE OF THE MANHOLE.
3. CONTRACTOR TO BE RESPONSIBLE FOR TRAFFIC CONTROL.
4. ABANDONED SEWERS LARGER THAN 8" IN DIAMETER SHALL BE FILLED WITH FLOWABLE FILL. SEWERS 8" AND SMALLER SHALL BE GROUT PLUGGED AND LEFT EMPTY. SEE SPECIFICATION 33 04 00.

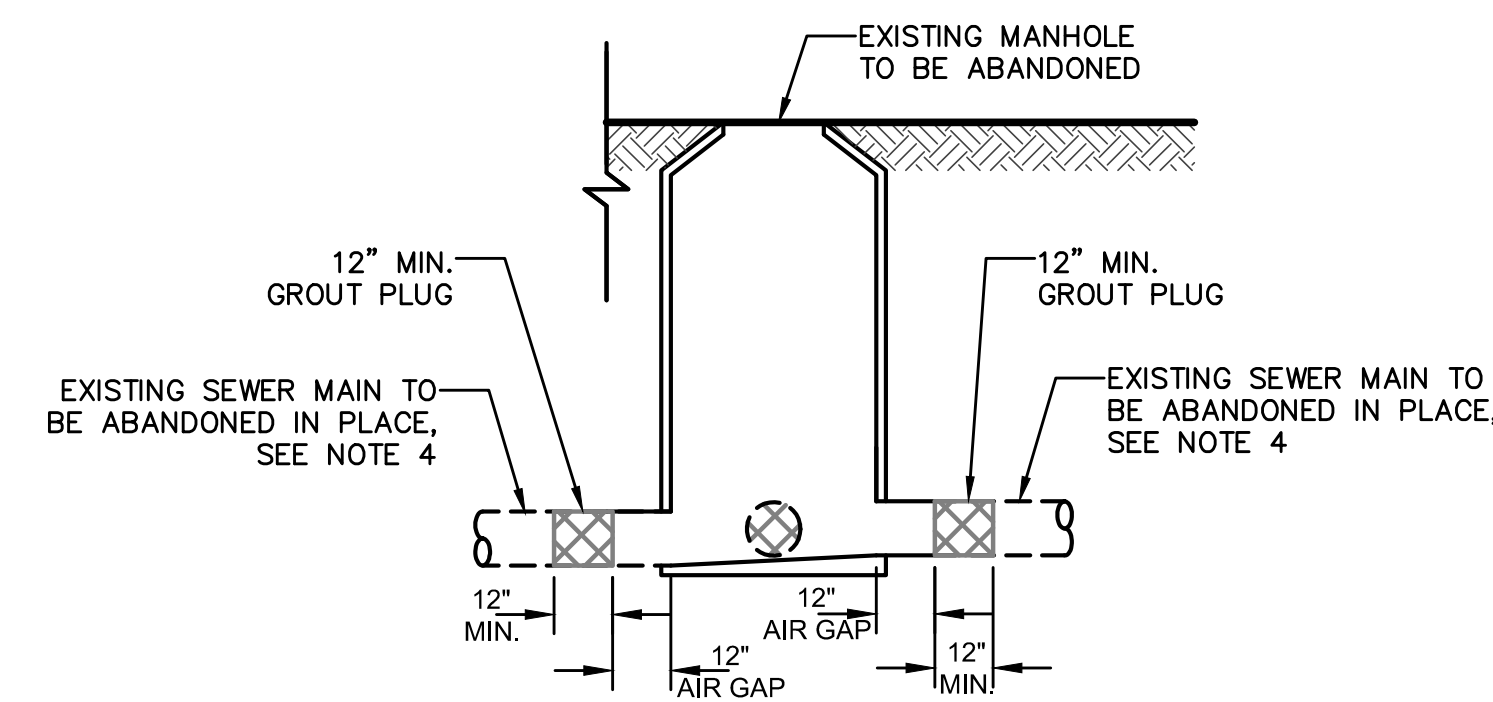


SECTION A-A

**NOTES**

1. NEW SHELF SHALL BE FULL DEPTH OF THE EXISTING CHANNEL.
2. USE 560-C 3250 PSI PER GREENBOOK FOR MANHOLE SHELF.

**1 SEWER MANHOLE BENCH REPAIR**  
NTS

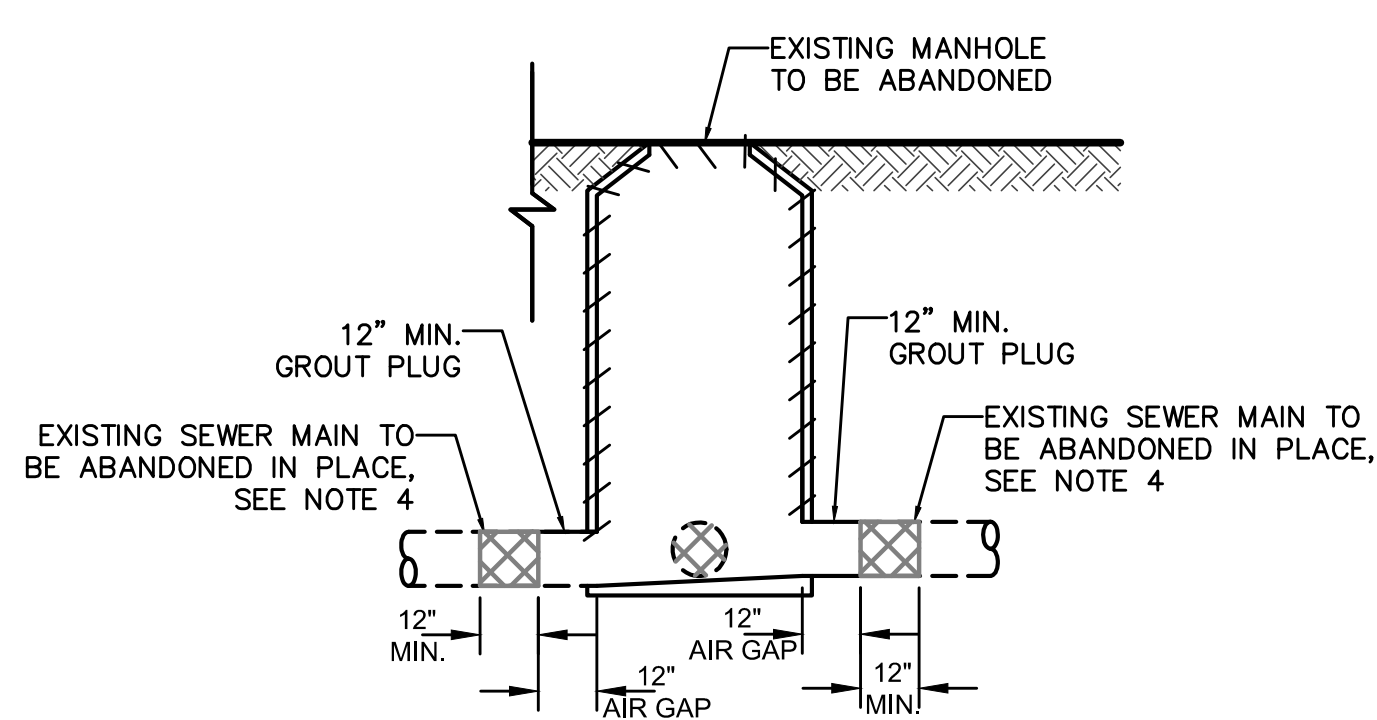


ABANDONED MANHOLE PLUG

**NOTES**

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**2 ABANDONED SEWER MANHOLE PLUG (SURPLUS II)**  
NTS

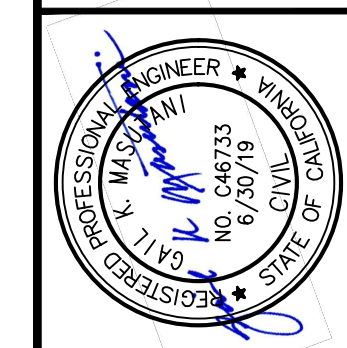
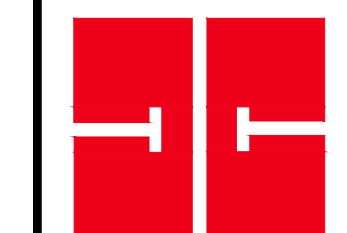


**NOTES**

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2. GROUT PLUG SHALL BE FLUSH WITH THE INSIDE OF THE MANHOLE.
3. CONTRACTOR TO BE RESPONSIBLE FOR TRAFFIC CONTROL.
4. ABANDONED SEWERS LARGER THAN 8" IN DIAMETER SHALL BE FILLED WITH FLOWABLE FILL. SEWERS 8" AND SMALLER SHALL BE GROUT PLUGGED AND LEFT EMPTY.
5. RECYCLE/DISPOSE MANHOLE COVER & CONCRETE CONE & RINGS TO MANHOLE SHELF. MANHOLE SHELF CAN REMAIN. FOR BACKFILL AND COMPACTION. CONCRETE AND AC SHALL BE CRUSHED TO SIZES OF 3-INCHES OR LESS AND NO MORE THAN APPROXIMATELY 30% SHALL BE LARGER THAN 3/4-INCH. BACKFILL SHALL BE PLACED IN 12-INCH LIFTS AND COMPACTED TO 90% OF ITS PROCTOR DENSITY AS EVALUATED BY ASTM D1557. BACKFILL SHALL BE LEVEL WITH GROUND SURFACE. COMPACTION TESTING SHALL BE PERFORMED PER SPECIFICATIONS.

**3 ABANDONED SEWER MANHOLE PLUG (STOCKADE)**  
NTS

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WATER AND SEWER  
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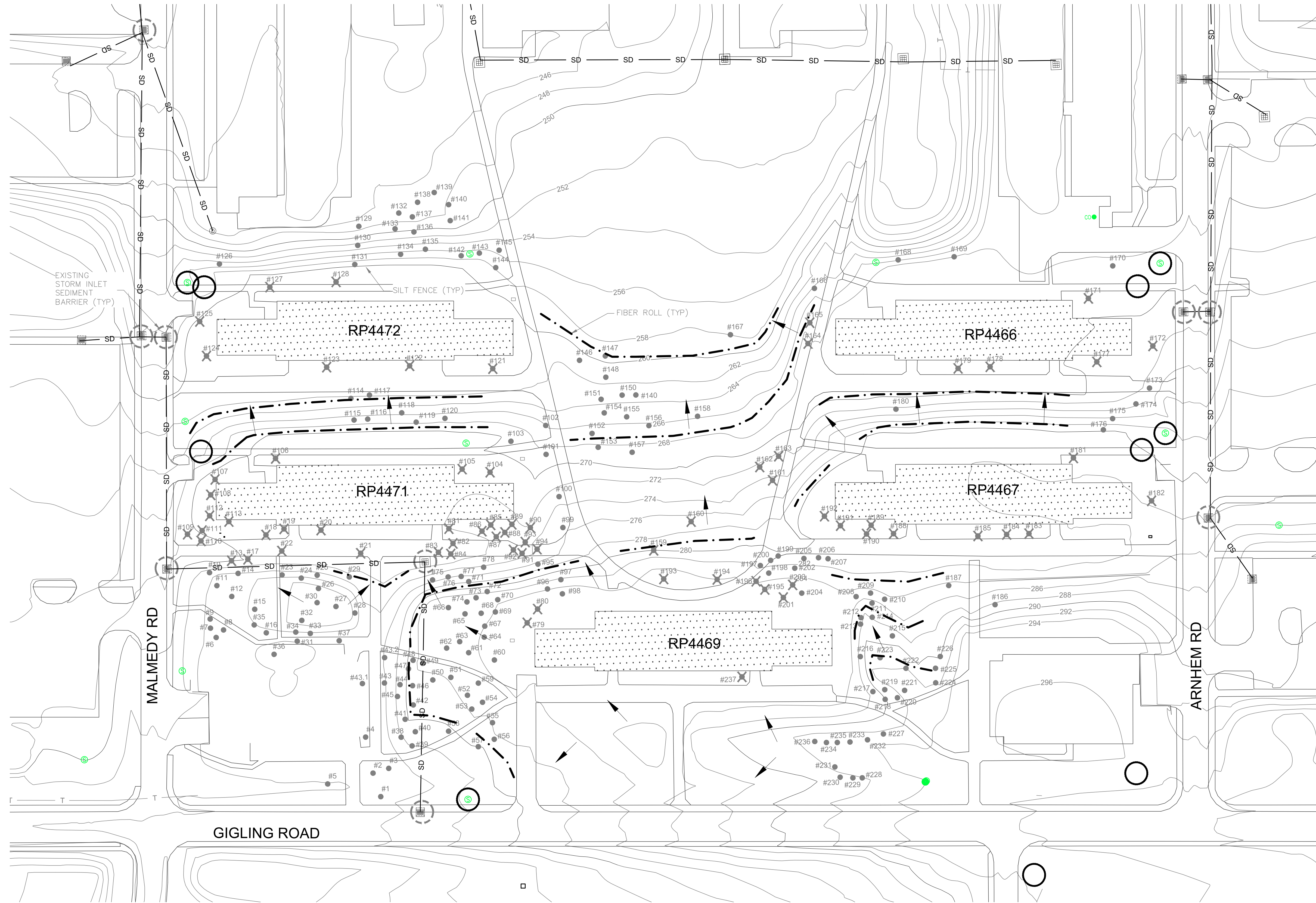
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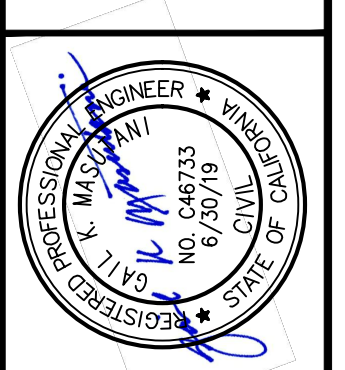
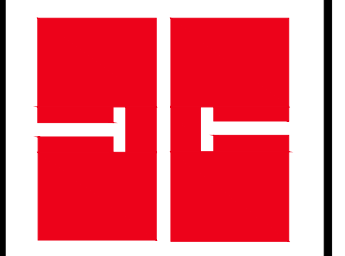
**LEGEND**

- EXISTING FIBER ROLL PER CASQA SE-5
- SAND BAGS PER CASQA SE-8
- EXISTING STORM DRAIN INLET SEDIMENT BARRIER
- STORM DRAIN INLET
- EC-2 PROTECT EXISTING TREE PER CASQA BMP
- REMOVE EXISTING TREE
- FLOW PATH

**NOTES**

1. CONTRACTOR TO MAINTAIN/REVISE EROSION CONTROL MEASURES AS NEEDED TO PROTECT AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2. CONTRACTOR SHALL SWEEP THE PUBLIC ROAD IN THE VICINITY OF THE ENTRANCE AS OFTEN AS NECESSARY THROUGHOUT THE WORK DAY TO COMPLETE REMOVE ALL DEBRIS ASSOCIATED WITH PROJECT ACTIVITIES.
3. CONTRACTOR TO ADD SEDIMENT BARRIER TO ALL PERIMETER STORM DRAIN INLETS THAT ACCEPT RUNOFF FROM SITE.
4. EXISTING CONTOURS AND ELEVATIONS SHOWN FOR REFERENCE ONLY AND WERE BASED ON GIS INFORMATION PROVIDED BY FORA AND AERIAL PHOTOGRAPHY, REFERENCED TO NAVD88 WITH A ±2-FT LEVEL OF ACCURACY.
5. FOR CONTRACTOR TO CONFIRM THAT FORA HAS RECEIVED PERMISSION FROM CSUMB PRIOR TO ASSESSING THEIR PROPERTY FOR WORK IN THE AREA OF BUILDING AD4550 AND AD4560.
6. ALL TREES REMAINING ON SITE SHALL BE PROTECTED PER CASQA BMP EC-2.

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WATER AND SEWER  
 REMOVAL AND ABANDONMENT  
 SURPLUS II- EROSION CONTROL

Revisions	
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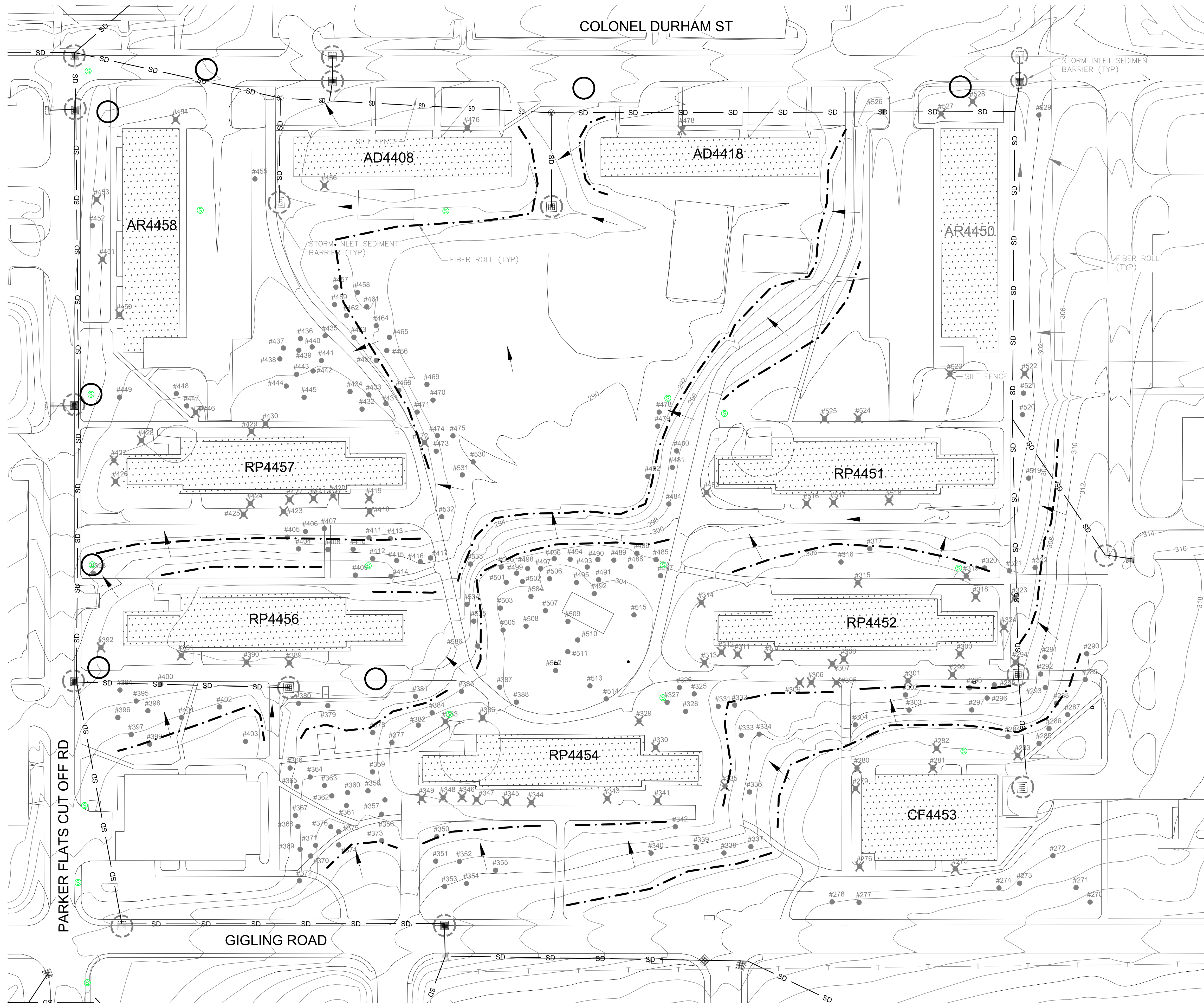
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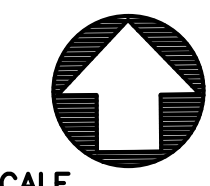
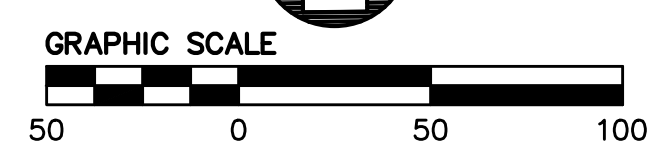


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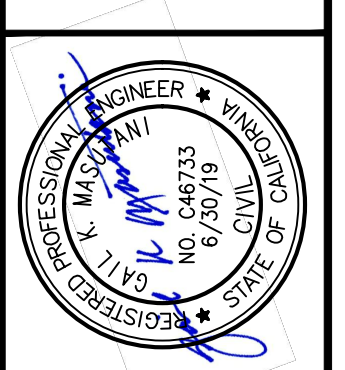
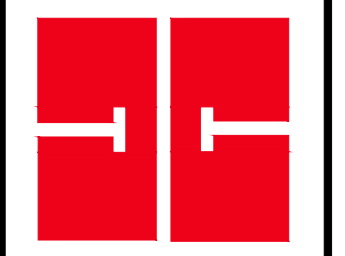
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1. CONTRACTOR TO MAINTAIN/REVISE EROSION CONTROL MEASURES AS NEEDED TO PROTECT AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2. CONTRACTOR SHALL SWEEP THE PUBLIC ROAD IN THE VICINITY OF THE ENTRANCE AS OFTEN AS NECESSARY THROUGHOUT THE WORK DAY TO COMPLETELY REMOVE ALL DEBRIS ASSOCIATED WITH PROJECT ACTIVITIES.
3. CONTRACTOR TO ADD SEDIMENT BARRIER TO ALL PERIMETER STORM DRAIN INLETS THAT ACCEPT RUNOFF FROM SITE.
4. EXISTING CONTOURS AND ELEVATIONS SHOWN FOR REFERENCE ONLY AND WERE BASED ON GIS INFORMATION PROVIDED BY FORA AND AERIAL PHOTOGRAPHY, REFERENCED TO NAVD88 WITH A ±2-FT LEVEL OF ACCURACY.
5. FOR CONTRACTOR TO CONFIRM THAT FORA HAS RECEIVED PERMISSION FROM CSUMB PRIOR TO ASSESSING THEIR PROPERTY FOR WORK IN THE AREA OF BUILDING AD4550 AND AD4560.
6. ALL TREES REMAINING ON SITE SHALL BE PROTECTED PER CASQA BMP EC-2.



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WATER AND SEWER  
 REMOVAL AND ABANDONMENT  
 SURPLUS II- EROSION CONTROL

No.	Revisions

Date: \_\_\_\_\_  
 Scale: \_\_\_\_\_  
 Design: \_\_\_\_\_  
 Drawn: \_\_\_\_\_  
 Approved: \_\_\_\_\_  
 Job No: \_\_\_\_\_  
 Drawing Number: \_\_\_\_\_







