

ABBREVIATIONS	
ACP	ASPHALT CONCRETE PAVEMENT
CB	CATCHBASIN
CONC	CONCRETE
ESC	EROSION SEDIMENTATION CONTROL
EXIST.	EXISTING
G	UNDERGROUND GAS
NTS	NOT TO SCALE
OH	OVERHEAD LINE
PWR	UNDERGROUND POWER
RFB	REQUEST FOR BID
SD	STORM DRAIN
SS	SANITARY SEWER
TEL	UNDERGROUND TELEPHONE
W	WATER

CITY OF FEDERAL WAY PUBLIC WORKS DEPARTMENT FEDERAL WAY, WASHINGTON

Marine Hills Stormwater Conveyance System Repair Phase I

RFB NO. 16-004

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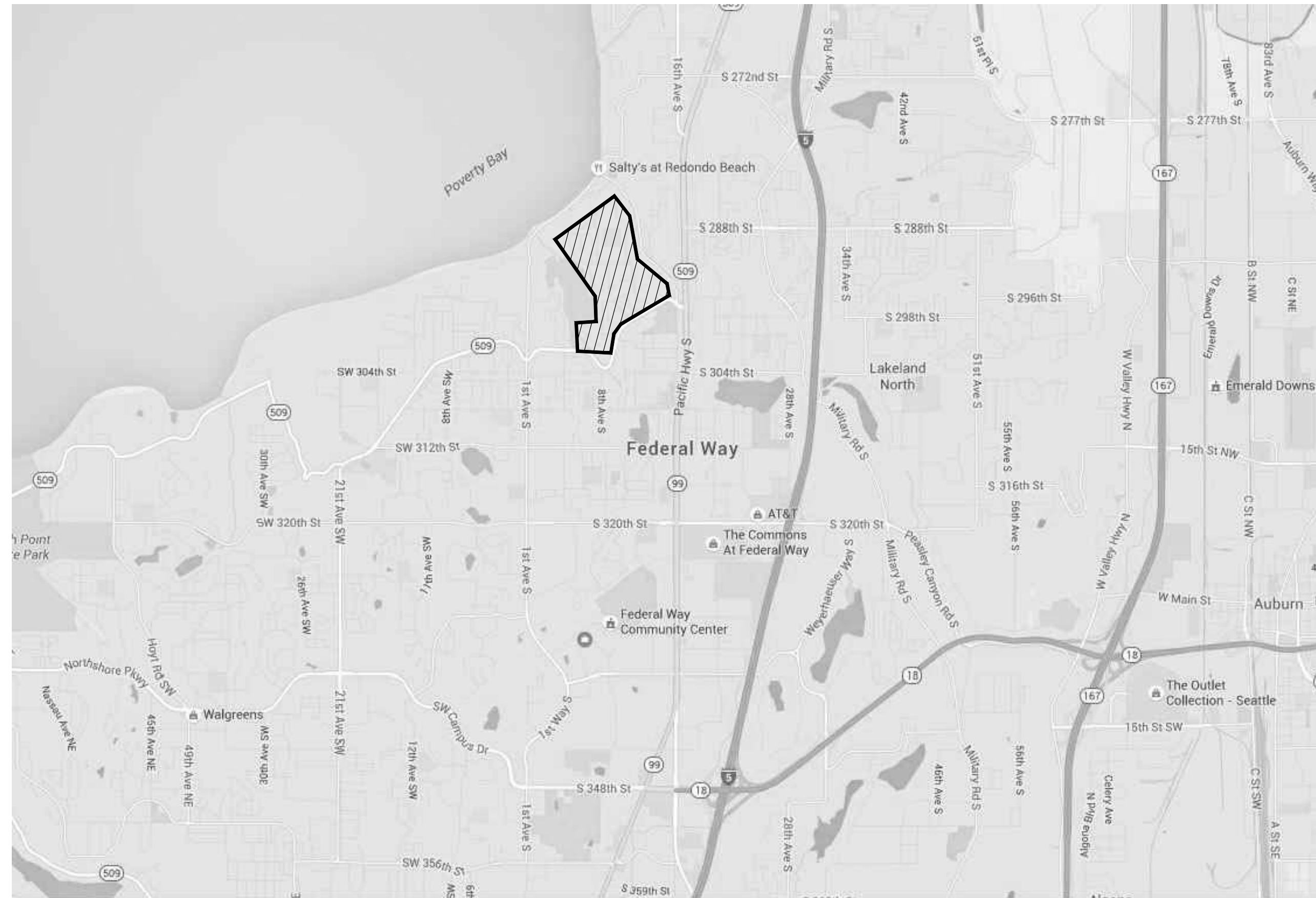


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STATE OF WASHINGTON
34470
REGISTERED
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PROJECT TITLE:	Marine Hills Stormwater Conveyance System Repair Phase I
SHEET NAME:	COVER SHEET
PROJECT ENG:	FEI TANG
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RFB #:	16-004
SHT:	G01
	01 OF 07



VICINITY MAP
NTS



LOCATION MAP
NTS

ESC NOTES

1. ESC MEASURES MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
2. ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, THESE ESC MEASURES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
3. ESC FACILITIES SHALL BE INSPECTED DAILY BY CONTRACTOR'S ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
4. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING WET SEASON OR SEVEN DAYS DURING DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH APPROVED ESC METHODS.
5. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
6. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCHBASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO DOWNSTREAM SYSTEM.
7. PRIOR TO BEGINNING OF WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF BEGINNING OF WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO ENGINEER.
8. INSTALL INLET PROTECTION PER WSDOT STANDARD PLAN I-40.20-00 ON ALL STORM DRAIN INLETS NEAR CONSTRUCTION SITE THAT MAY CATCH RUNOFF FROM CONSTRUCTION SITE.
9. PLUG STORM DRAIN PIPE DOWNSTREAM OF CONSTRUCTION SITE. DIRECT SURFACRUNOFF AWAY FROM CONSTRUCTION SITE.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED ON THE PLAN, CONTRACTOR SHALL REBUILD, REPAIR, RESTORE, AND MAKE GOOD ALL DAMAGES AND DISTURBANCES TO ANY AND ALL IMPROVEMENTS THAT EXIST PRIOR TO THE CONSTRUCTION TO THEIR ORIGINAL CONDITIONS. THE EXTENT OF SURFACE DISTURBANCE MAY VARY DEPENDING ON CONTACTOR'S CHOSEN CONSTRUCTION METHOD. BIDDERS ARE ENCOURAGED TO INSPECT THE SITE CONDITIONS BEFORE SUBMITTING BIDS.
2. SEEDING IS NOT AN ALLOWED METHOD FOR RESTORING DISTURBED LAWN. CONTRACTOR SHALL EITHER INSTALL NEW SOD, OR REMOVE, PRESERVE AND REUSE EXISTING SOD TO RESTORE DISTURBED LAWN. ENGINEER'S REVIEW AND APPROVAL OF THE CONDITIONS OF PRESERVED SOD IS REQUIRED PRIOR TO REUSING EXISTING SOD. IF PRESERVED SOD IS NOT APPROVED, NEW SOD SHALL BE USED.
3. TRENCH OPEN AREA MUST BE COVERED WITH COLD MIX ASPHALT TEMPORARY PAVEMENT NO LATER THAN NEXT CALENDAR DAY AFTER TRENCH BACKFILL IS COMPLETE AND BEFORE OPEN TO TRAFFIC, WHICHEVER COMES FIRST. COLD MIX SHALL BE PLACED IN A 2-INCH MINIMUM THICKNESS. MAINTAIN AND/OR REPLACE COLD MIX AS NECESSARY AT ENGINEER'S DISCRETION.
4. FOR SITE #1 THROUGH #7, CONNECT REPAIR PIPE SECTION TO EXIST. PIPE PER WSDOT STANDARD PLAN B-60.20.00.
5. TRENCH AND ACP RESTORATION PER CITY OF FEDERAL WAY STANDARD DRAWING NO. 3-28.
6. FOR SITES #1 THROUGH #7, USE EITHER CORRUGATED POLYETHYLENE STORM SEWER PIPE PER SPECIAL PROVISIONS SECTION 9-05.20, OR CL. III REINFORCED CONC PIPE PER WSDOT STANDARD SPECIFICATIONS SECTION 9-05.7(2).
7. FOR SITES #8 AND #9, USE DUCTILE IRON PIPE (WATER SUPPLY, CL. 50 OR 52). JOINT SHALL BE FLANGED, BELL & SPIGOT, OR RESTRAINED MECHANICAL JOINTS.
8. AERIAL PHOTOGRAPHS WERE TAKEN IN 2012. CURRENT CONDITIONS MAY DIFFER.

SITE INFORMATION

Site #	Pipe Dia., in	Existing Pipe Material	Approx. Depth, ft	Approx. Repair Length, ft	Defect	Spot Repair or CB to CB
1	12	conc	5	12	Offset joint on both ends of a stick	Spot Repair
2	12	conc	9	12	Offset joint, vertical	Spot Repair
3	12	conc	2	12	Broken, one entire stick	Spot Repair
4	12	conc	2	9	Large hole about 1/2 pipe stick length	Spot Repair
5	12	conc	5	12	Offset joint, one shifted stick	Spot Repair
6	12	conc	4	12	Broken, one entire stick	Spot Repair
7	12	conc	5	12	Large hole, one entire stick	Spot Repair
8	8	conc	3	35	Offset joint, vertical	CB to CB
9	8	conc	3	28	Offset joint	CB to CB

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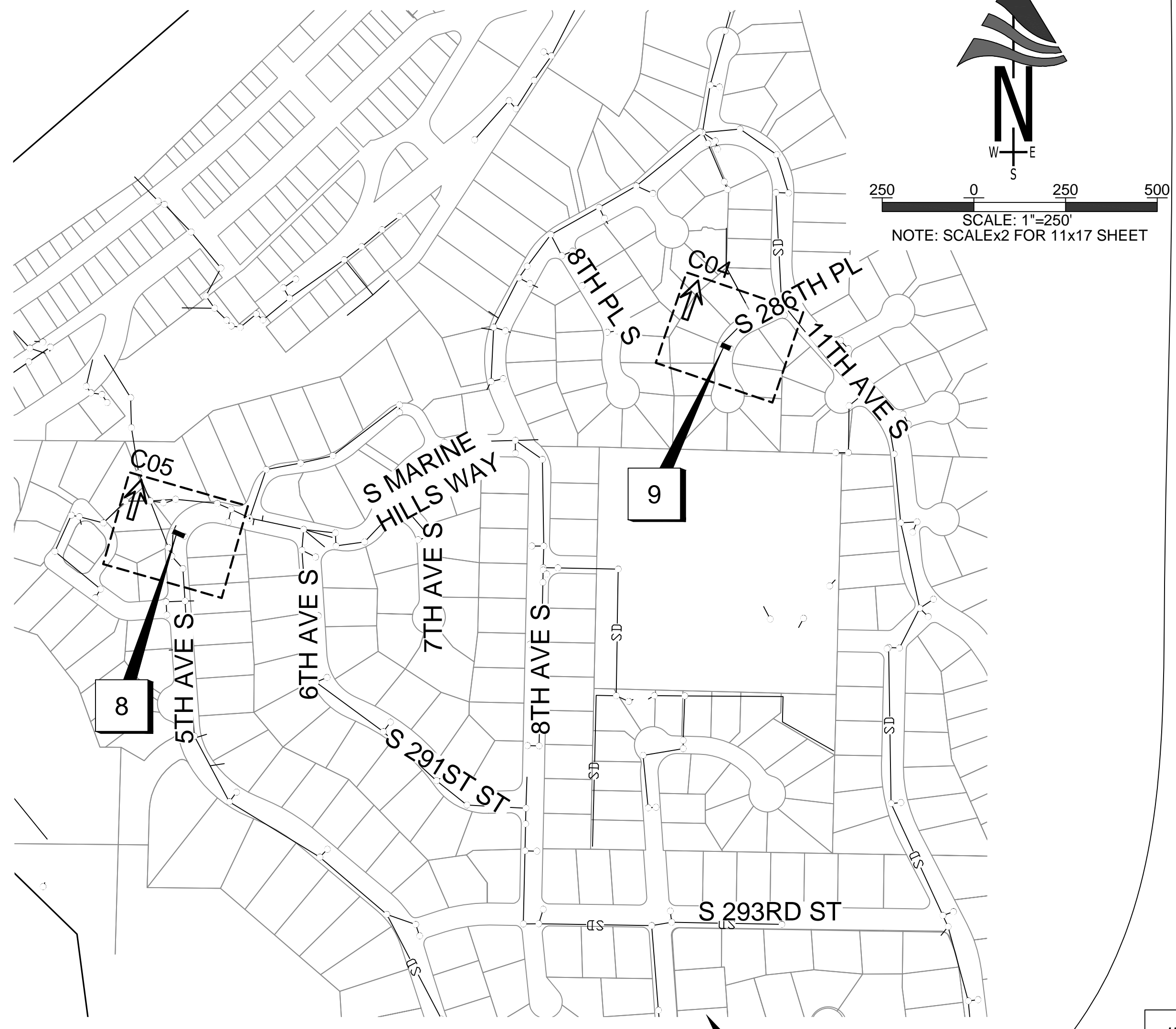
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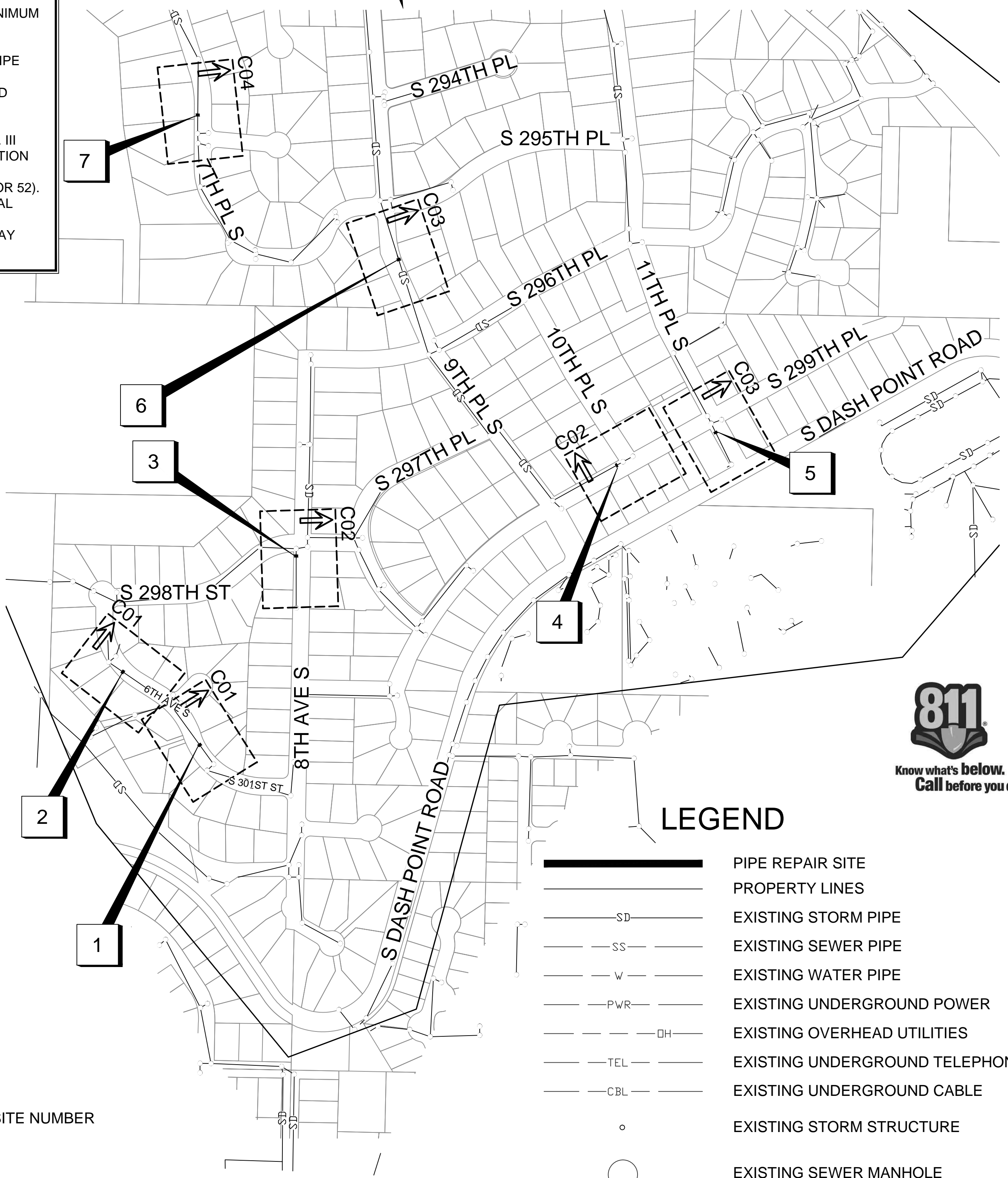


PROJECT TITLE: Marine Hills Stormwater Conveyance System Repair Phase I
 SHEET NAME: KEY MAP, NOTES, AND LEGEND
 PROJECT ENG: FEI TANG
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RFB #: 16-004
 SHEET: 02 OF 07
G02



= SITE NUMBER

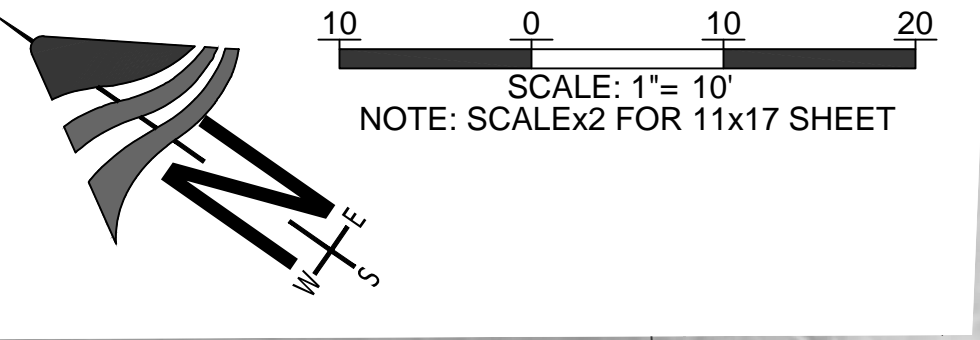
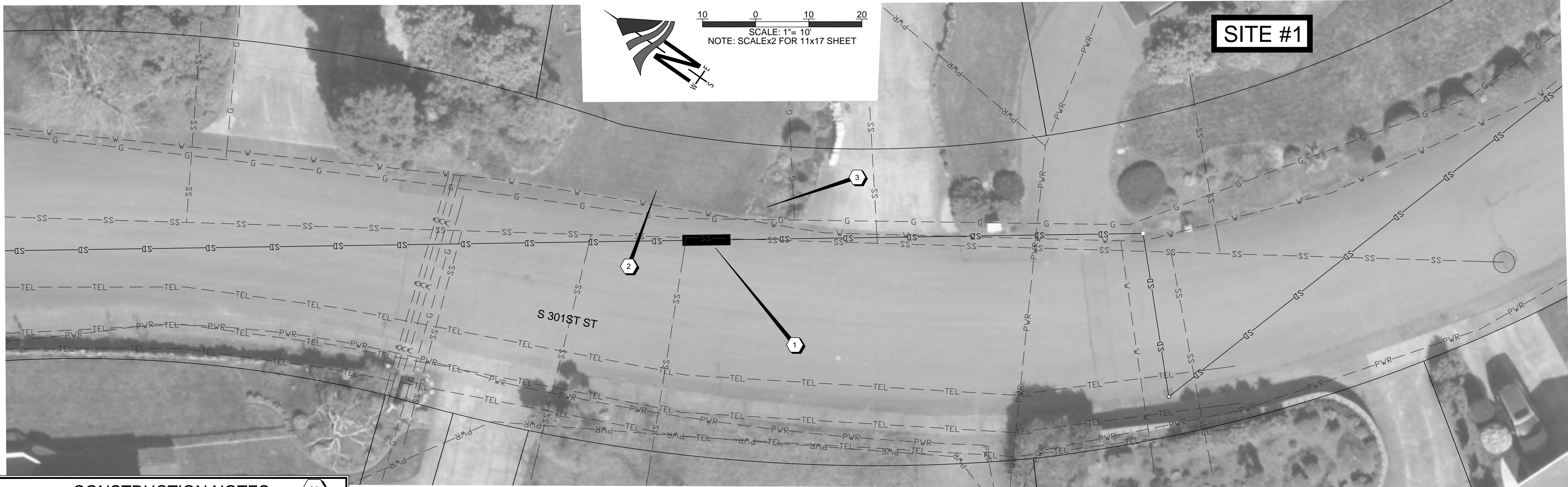


LEGEND

	PIPE REPAIR SITE
	PROPERTY LINES
	EXISTING STORM PIPE
	EXISTING SEWER PIPE
	EXISTING WATER PIPE
	EXISTING UNDERGROUND POWER
	EXISTING OVERHEAD UTILITIES
	EXISTING UNDERGROUND TELEPHONE
	EXISTING UNDERGROUND CABLE
	EXISTING STORM STRUCTURE
	EXISTING SEWER MANHOLE

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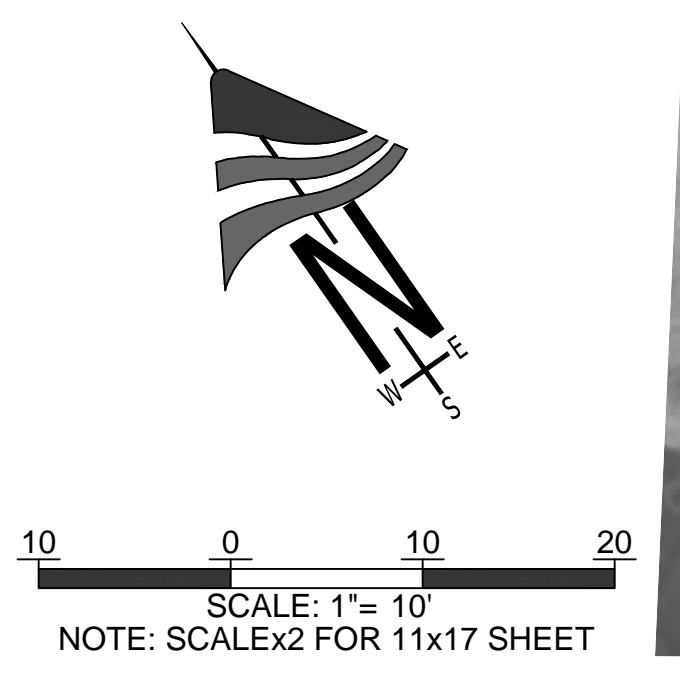
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SITE #1

CONSTRUCTION NOTES

1. REPAIR STORMDRAIN PIPE. RESTORE ACP.
2. RESTORE LAWN WITH SOD. PROTECT OR RESTORE IRRIGATION.
3. PROTECT OR RESTORE PLANTS/LANDSCAPING
4. PROTECT OR RESTORE CURB/GUTTER/SIDEWALK/DRIVEWAY JOINT TO JOINT. DETAILS PER RIGHT OF WAY PERMIT.



SITE #2

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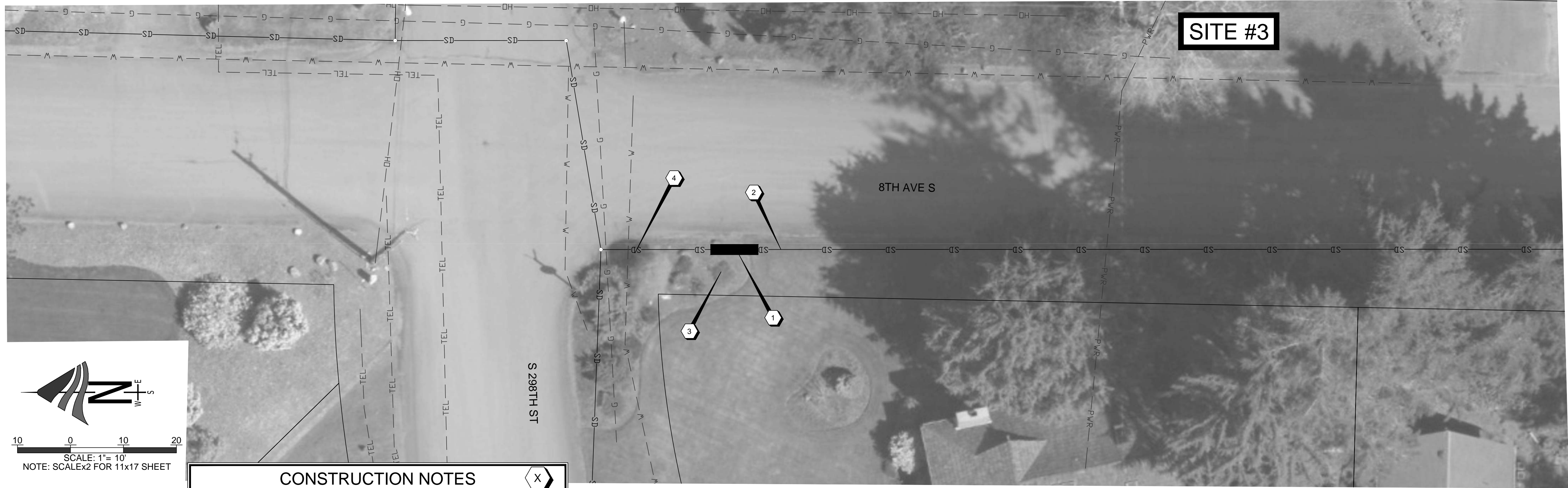
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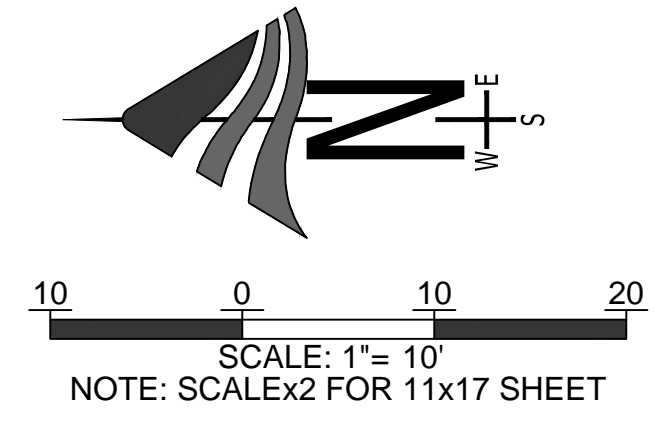
PROJECT TITLE: Marine Hills Stormwater Conveyance System Repair Phase I
 SHEET NAME: SITE PLAN FOR SITES #1 & #2
 PROJECT ENG: FEI TANG
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RFB #: 16-004
 SHEET: 03 OF 07
 C01

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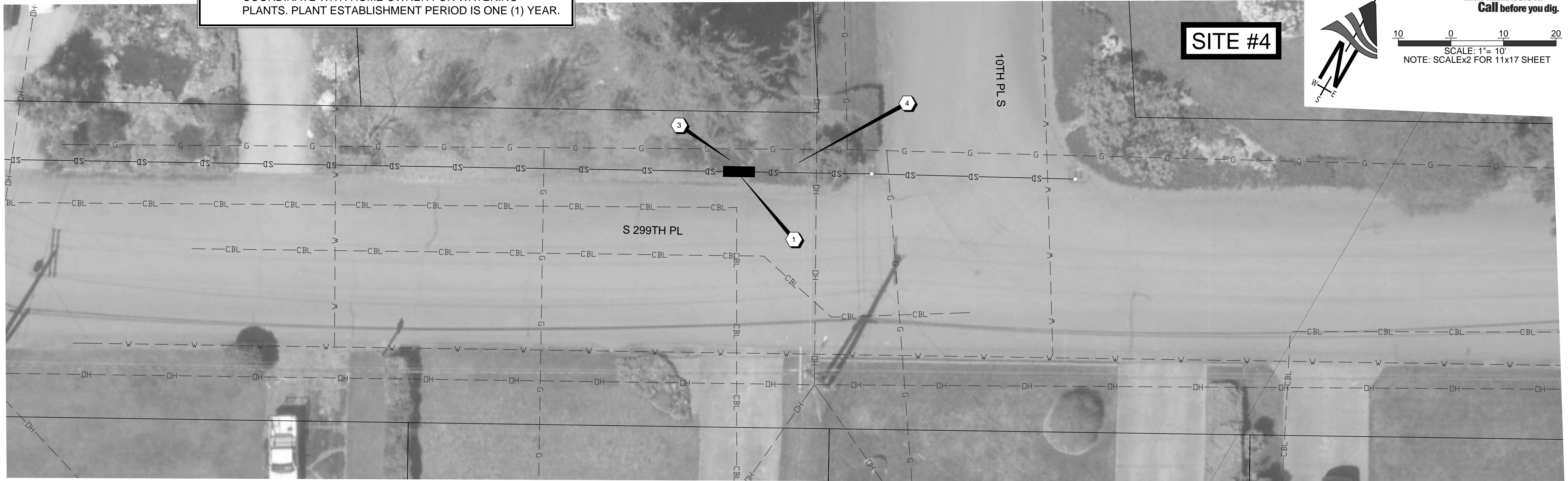
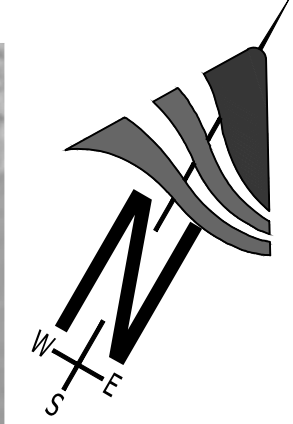
SITE #3



CONSTRUCTION NOTES

1. REPAIR STORMDRAIN PIPE. RESTORE ACP.
2. RESTORE LAWN WITH SOD. PROTECT OR RESTORE IRRIGATION.
3. PROTECT OR RESTORE PLANTS/LANDSCAPING.
4. PROTECT TREES. INSTALL HIGH VISIBILITY FENCING (5) FEET OUTSIDE DRIPLINE. IF DAMAGED, REPLANT WITH SAME KIND AND SAME SIZE. CONTRACTOR TO COORDINATE WITH HOME OWNER FOR WATERING PLANTS. PLANT ESTABLISHMENT PERIOD IS ONE (1) YEAR.

X



SITE #4

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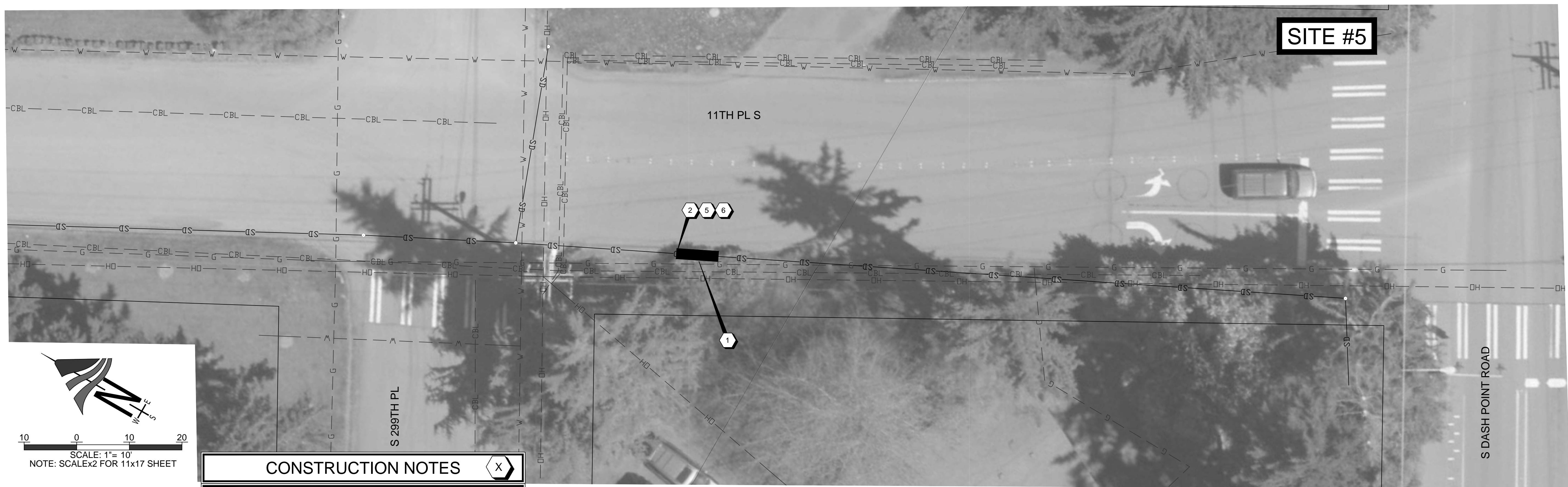
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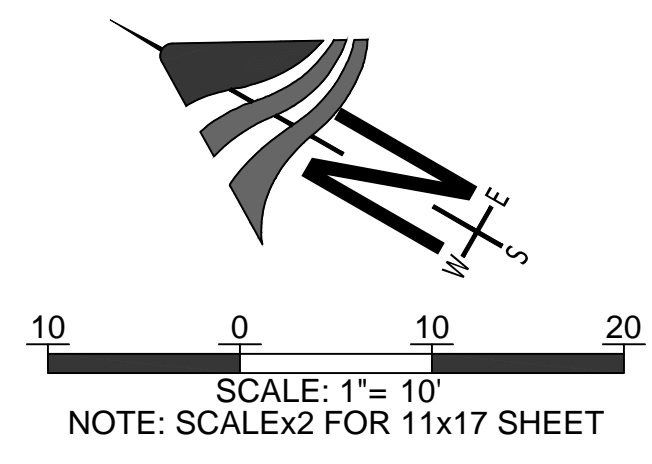
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 SHEET NAME: SITE PLAN FOR SITES #3 & #4
 PROJECT ENG: FEI TANG
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RFB #: 16-004
 SHEET: 04 OF 07
 C02

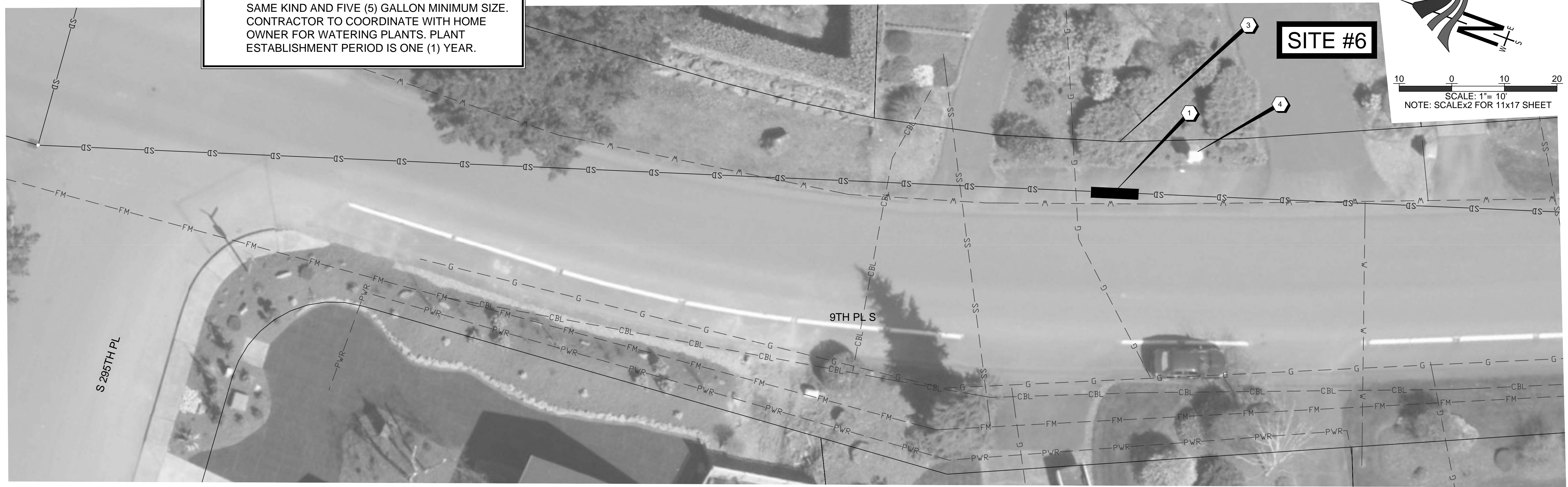
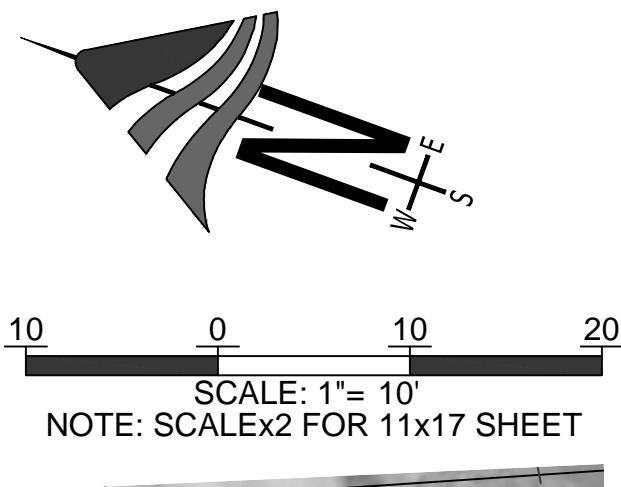
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SITE #5



- CONSTRUCTION NOTES**
1. REPAIR STORMDRAIN PIPE. RESTORE ACP.
 2. RESTORE LAWN WITH SOD. PROTECT OR RESTORE IRRIGATION.
 3. PROTECT OR RESTORE PLANTS/LANDSCAPING.
 4. PROTECT MAIL BOX. CONTRACTOR TO COORDINATE WITH POSTAL SERVICE TO PROVIDE REASONABLE AND SAFE ACCESS.
 5. PROTECT OR RESTORE STREET SIGN.
 6. PROTECT PLANTS. IF DAMAGED, REPLANT WITH SAME KIND AND FIVE (5) GALLON MINIMUM SIZE. CONTRACTOR TO COORDINATE WITH HOME OWNER FOR WATERING PLANTS. PLANT ESTABLISHMENT PERIOD IS ONE (1) YEAR.



SITE #6

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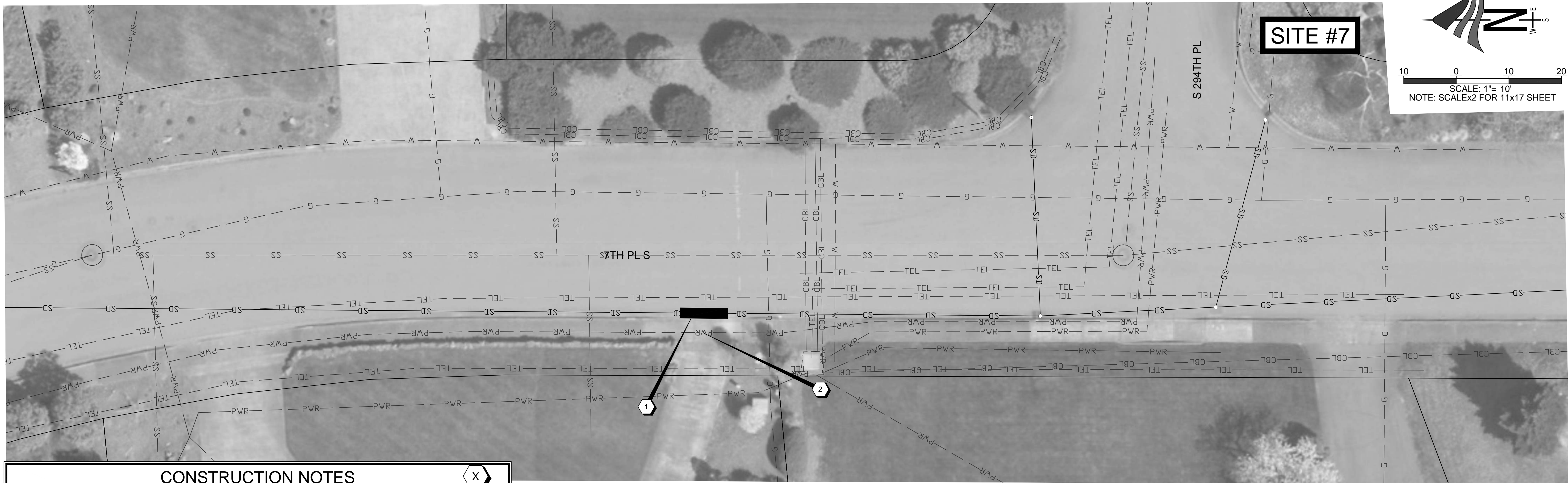
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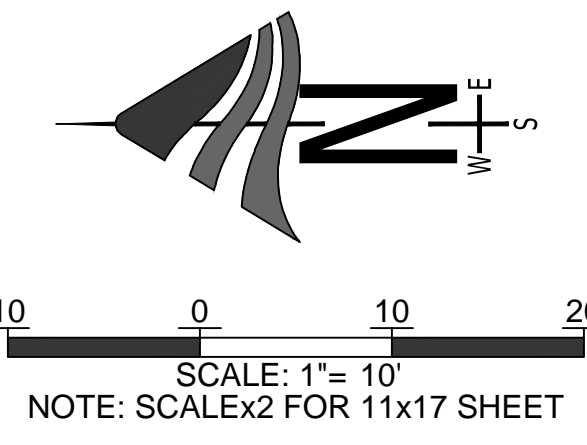
PROJECT TITLE: Marine Hills Stormwater Conveyance System Repair Phase I
 SHEET NAME: SITE PLAN FOR SITES #5 & #6
 PROJECT ENG: FEI TANG
 PHONE #: (253) 835-2751
 EMAIL: FEITANG@CITYOFFEDERALWAY.COM

RFB #: 16-004
 SHEET: 05 OF 07
 C03

Parent Sheet Set: Marine Hills Repair
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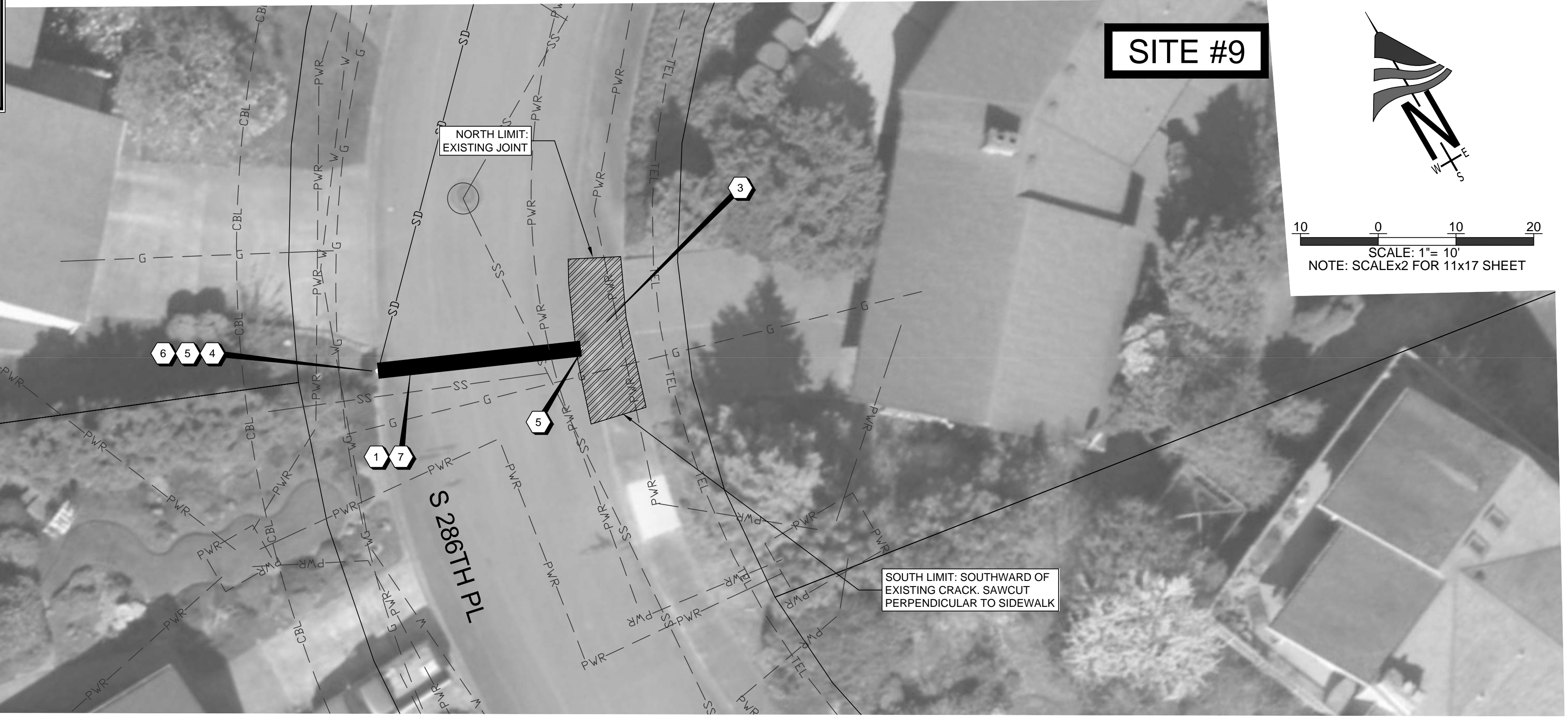
SITE #7



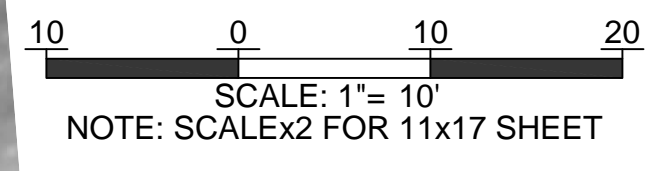
CONSTRUCTION NOTES



1. REPAIR STORMDRAIN PIPE. RESTORE ACP.
2. REMOVE AND REPLACE CURB/GUTTER/SIDEWALK/DRIVEWAY TO NEAREST JOINT. DETAILS PER RIGHT OF WAY PERMIT.
3. REMOVE AND REPLACE EXIST. CURB/GUTTER/SIDEWALK/DRIVEWAY TO LIMITS SHOWN. DETAILS PER RIGHT OF WAY PERMIT.
4. REMOVE AND REPLACE EXIST. CURB/GUTTER JOINT TO JOINT. DETAILS PER RIGHT OF WAY PERMIT.
5. REBUILD EXISTING CB: REMOVE/REPLACE BROKEN OR LOOSE BRICKS, RESET FRAME & GRATE, GROUT INSIDE & OUTSIDE OF CB NECK USING NON-SHRINK GROUT ONLY.
6. PROTECT OR RESTORE PLANTS/LANDSCAPING.
7. MAINTAIN AT LEAST ONE LANE OPEN TO TRAFFIC AT ALL TIMES.



SITE #9



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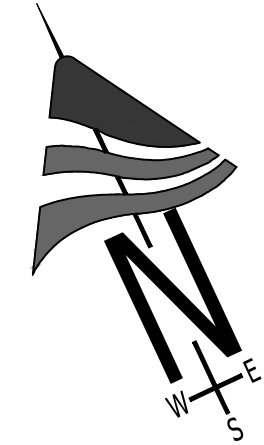
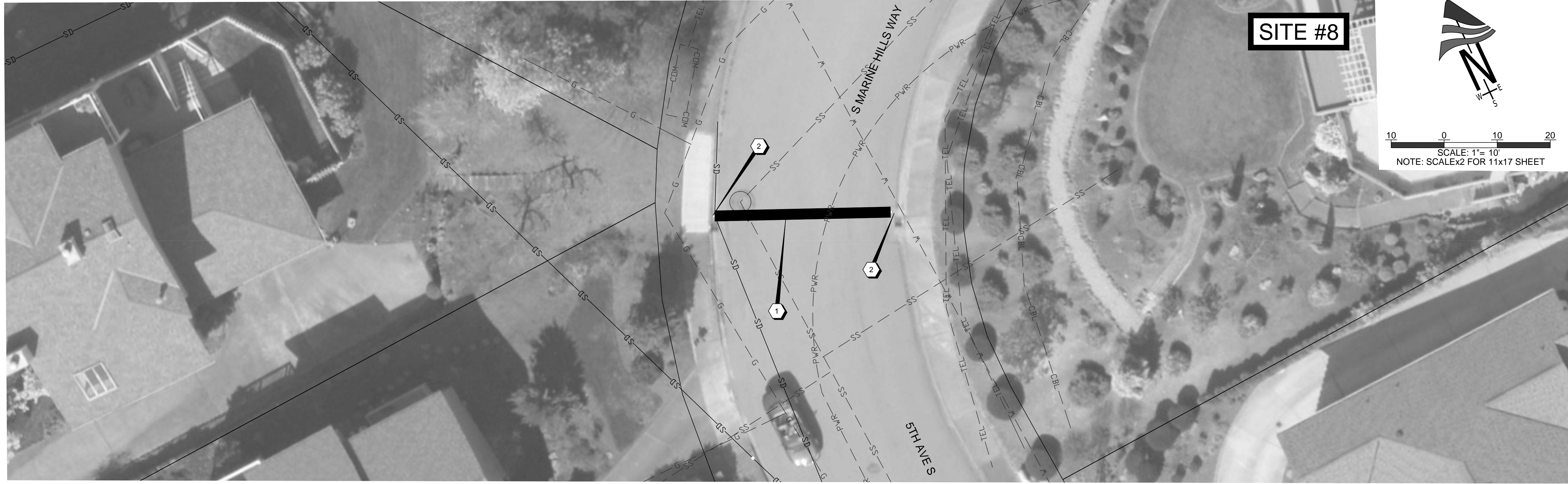
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PROJECT TITLE: Marine Hills Stormwater Conveyance System Repair Phase I
 SHEET NAME: SITE PLAN FOR SITES #7 & #9
 PROJECT ENG: FEI TANG
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10 0 10 20
SCALE: 1"= 10'
NOTE: SCALEX2 FOR 11x17 SHEET

CONSTRUCTION NOTES	
1.	REPAIR STORMDRAIN PIPE. RESTORE ACP.
2.	PROTECT OR RESTORE CURB/GUTTER/SIDEWALK/DRIVEWAY JOINT TO JOINT. DETAILS PER RIGHT OF WAY PERMIT. PROTECT OR RESTORE CB.

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PROJECT TITLE: Marine Hills Stormwater Conveyance System Repair Phase I
SHEET NAME: SITE PLAN FOR SITE #8
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