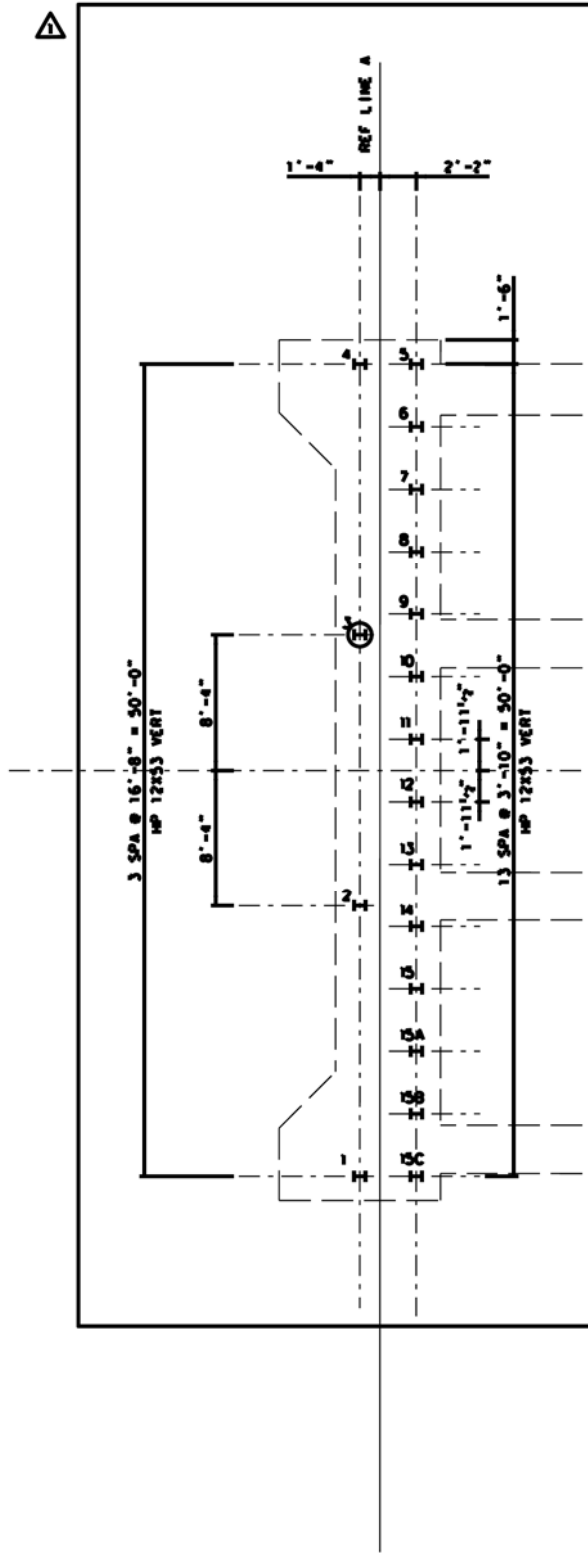


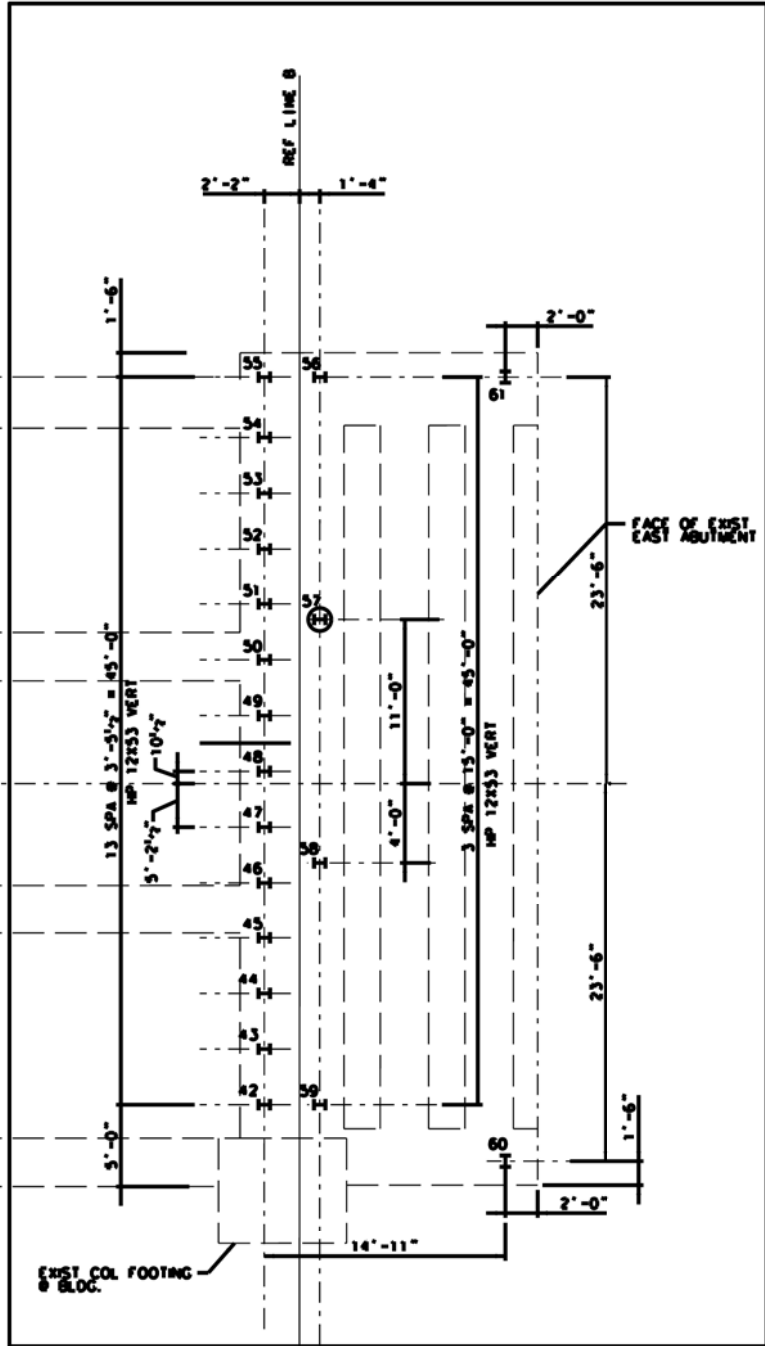


PILE PLAN



MISCELLANEOUS QUANTITIES

1	LS	PILE DRIVING EQUIPMENT, FURN (SN 12446)
8196	PT	PILE, STEEL, FURN AND DRIVEN, 12 INCH
3	EA	TEST PILE, STEEL, 12 INCH
64	EA	PILE POINT, STEEL
1	EA	TEST PILE, FURN DYNAMIC ANALYSIS EQUIPMENT
3	EA	TEST PILE, DYNAMIC ANALYSIS
1	LS	MONITORING VIBRATIONS (SN 12446)
205	EA	PILE, STEEL, SPLICE



NOTES:

DRIVE ALL PILES TO A NOMINAL PILE DRIVING RESISTANCE NOT LESS THAN OF 350 KIPS, NEGLECTING DOWNDRAG (270 KIPS INCLUDING DOWNDRAG). DETERMINE NOMINAL PILE DRIVING RESISTANCE (RNDP) USING DYNAMIC TEST WITH SIGNAL MATCHING (P.O.A. TESTING).

THE ESTIMATED PILE LENGTH IS BASED ON THE STATIC ANALYSIS.

STEEL PILES SHALL BE HP 12X53.

PILES ARE TO BE DRIVEN TO SUCH ACCURACY THAT THE ENDS OF THE PILES TO BE EMBEDDED IN THE CONCRETE ARE WITHIN 3" OF THE LOCATION SHOWN ON THE PLANS.

USE STEEL FOR H-PILES THAT HAVE A YIELD STRENGTH NOT LESS THAN 50,000 PSI.

THE ESTIMATED FACTORED DOWNDRAG AFTER PILE DRIVING IS 80 KIPS. THE REDUCED FACTORED RESISTANCE (RSTOR) INCLUDING POTENTIAL FOR DOWNDRAG WITH POA VERIFICATION IS 175 KIPS

ALL PILES SHALL BE PREBORED TO EL. 103'-0" OR MINIMUM TEN FEET BELOW WATERMAIN INVERT, WHICHEVER IS LOWER. FILL PREBORE WITH FLOWABLE FILL AFTER PILE INSTALLATION.

ALL PILES SHALL BE DRIVEN WITH PROTECTIVE CAST STEEL PILE POINTS. SEE SPECIAL PROVISION FOR DETAILS.

ESTIMATED PILE TIP ELEVATIONS:
-ABUTMENT A = EL. 2.00 FT
-PIER 1 = EL. 3.00 FT
-ABUTMENT B = EL. 2.00 FT

STEEL H-PILES: HP 12X53

LOCATION	PILE TYPE	NUMBER OF PILES	ESTIMATED LENGTH FURNISHED & DRIVEN		PILE POINTS (EACH)	SPLICES (EACH)	CUT-OFF ELEV.
			EACH LFT	TOTAL LFT			
ABUT A	TEST	1	138	138	1		120'-6"
	VERTICAL	17	128	2176	17		120'-6"
PIER 1	TEST	1	137	137	1		120'-6"
	VERTICAL	25	127	3175	25		120'-6"
ABUT B	TEST	1	138	138	1		120'-6"
	VERTICAL	19	128	2432	19		120'-6"
TOTAL				8196	64	205	

LEGEND

H --DENOTES VERTICAL PILES.
H --DENOTES VERTICAL TEST PILES.

ISSUED FOR: DATE: BY:

JOB NO. 01F 2025-09T

SHEET 18 (425)

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
PILING PLAN

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED

WadeTrim

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REV#1 10/28/13 FOUNDATION REVISION

REV#

DATE

DESCRIPTION

BY