

PROJECT DESCRIPTION

THE PROJECT SITE IS LOCATED ON STATE ROAD 122 FROM STATE LINE ROAD AT THE INDIANA-OHIO BORDER EXTENDING EAST APPROXIMATELY 8.19 MILES IN PREBLE COUNTY, OHIO. THE PROPOSED IMPROVEMENTS INCLUDE FULL DEPTH RECLAMATION (FDR) OF THE EXISTING ROADWAY PAVEMENT.

HISTORIC RECORDS

NO HISTORIC BORINGS WERE FOUND FOR THIS PROJECT.

GEOLOGY

THE SOILS IN THE PROJECT AREA CONSIST OF EXISTING ROADWAY EMBANKMENT FILL AND NATIVE GLACIALLY-DEPOSITED SOILS. BEDROCK WAS NOT ENCOUNTERED IN OUR EXPLORATION.

BASED ON USDA SOIL SURVEY MAPPING, THE NATIVE OVERBURDEN SOILS ALONG THE MAJORITY OF THE PROJECT ROADWAY CONSIST OF SOILS OF THE CYCLONE, MIAMIAN, CROSBY, KOKOMO, AND CELINA SERIES. THESE MATERIALS CONSIST OF COHESIVE SOILS FOUND ON GLACIAL TILL PLAINS AND WITHIN TILL PLAIN DEPRESSIONS OF WISCONSINAN AGE AND ARE TYPICALLY CAPPED WITH WIND-DEPOSITED LOESS. THE USGS BEDROCK GEOLOGY INDICATES THE PROJECT AREA LIES WITHIN THE DRAKES, WHITEWATER AND LIBERTY FORMATIONS AND THE LOCKPORT DOLOMITE FORMATION. THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) BEDROCK TOPOGRAPHY CONTOURS INDICATE THE TOP OF BEDROCK LIES NEAR ELEVATIONS 1,000 AND 1,050 FEET MSL.

RECONNAISSANCE

SITE RECONNAISSANCE WAS PERFORMED BY TERRACON ON MAY 17, 2021. THE LAND USE ALONG THIS PORTION OF SR122 IS RESIDENTIAL AND FARM LAND. THE EXISTING PAVEMENT IS GENERALLY IN FAIR TO GOOD CONDITION. THE ROADS INCLUDE TWO LANES OF TRAVEL.

SUBSURFACE EXPLORATION

A TOTAL OF FIFTY-SIX (56) TEST BORINGS WERE PERFORMED BETWEEN MAY 24 AND JUNE 11 OF 2021. ADDITIONALLY, A TOTAL OF FIFTY-FOUR (54) DYNAMIC CONE PENETROMETER (DCP) TESTS WERE PERFORMED BETWEEN JUNE 28 AND JULY 15 OF 2021. THE BORINGS AND DCP TESTS WERE PERFORMED IN THE EXISTING ROADWAY. GROUND SURFACE ELEVATIONS WERE MEASURED WITH A GPS DEVICE CAPABLE OF ACCURACY WITHIN +/- 1 FOOT.

THE TEST BORINGS WERE PERFORMED WITH A CME-55 TRACK-MOUNTED DRILL RIG. PAVEMENT CORES WERE CUT AT TWENTY (20) LOCATIONS EVENLY SPACED ACROSS THE PROJECT. THE TEST BORINGS WERE DRILLED TO DEPTHS OF ABOUT 4.5 FEET BELOW THE EXISTING PAVEMENT SURFACE. THE DRILL RIG UTILIZED HOLLOW-STEM AUGERS TO PERMIT SPLIT-SPOON SAMPLING IN THE OVERBURDEN SOILS. DRILLING AND SAMPLING PROCEDURES WERE PERFORMED IN GENERAL ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (SGE). THE AVERAGE DRILL ROD ENERGY RATIO (ER) FOR THE DRILL RIG WAS CALIBRATED TO BE 86.6 PERCENT (CALIBRATION DATE 10/30/2019).

UPON COMPLETION OF THE DRILLING ACTIVITIES, THE BOREHOLES WERE BACKFILLED WITH AUGER CUTTINGS AND BENTONITE CHIPS PER THE SGE. THE TEST BORINGS WITHIN THE EXISTING ROADWAY WERE PATCHED AT THE SURFACE WITH ASPHALT AFTER BACKFILLING OPERATIONS.

DYNAMIC CONE PENETROMETER TESTS WERE PERFORMED USING A SAPPER AUTOMATIC DCP TEST MACHINE IN GENERAL ACCORDANCE WITH ASTM D6951. TO ACCESS THE SUBGRADE, THE EXISTING PAVEMENT WAS DRILLED USING A HAMMER DRILL WITH A 1.5-INCH DIAMETER BIT. THE DCP TEST MEASURES THE PENETRATION DEPTH OF EACH BLOW FROM A 17.6 POUND HAMMER FALLING 22.6 INCHES.

UPON COMPLETION OF DCP TESTING, THE PAVEMENT WAS PATCHED AT THE SURFACE WITH ASPHALT.

EXPLORATION FINDINGS

THE TEST BORINGS WERE PERFORMED WITHIN THE EXISTING ROADWAY. BORINGS PERFORMED IN THE EXISTING ROADWAY GENERALLY IDENTIFIED 7.25 TO 14.5 INCHES OF ASPHALT UNDERLAIN BY 2.5 TO 11.25 INCHES OF AGGREGATE BASE. THE TOTAL PAVEMENT DEPTH RANGED FROM 14 TO 20.5 INCHES. LABORATORY GRAIN SIZE ANALYSIS WAS PERFORMED ON BASE COURSE SAMPLES AT THE LOCATIONS WHERE PAVEMENT CORES WERE TAKEN.

UNDER THE SURFACE STRATUM, THE TEST BORINGS INDICATED THE SUBGRADE UNDER THE EXISTING ROADWAY MOSTLY CONSISTS OF SANDY SILT (A-4A), SILT (A-4B), SILT AND CLAY (A-6A), SILTY CLAY (A-6B), AND CLAY (A-7-6) WITH SOME ISOLATED AREAS CONTAINING LAYERS OF GRAVEL/STONE FRAGMENTS WITH SAND AND SILT (A-2-4), GRAVEL/STONE FRAGMENTS WITH SAND, SILT AND CLAY (A-2-6, A-2-7), AND COARSE AND FINE SAND (A-3A). THE CONSISTENCY OF THE FINE-GRAINED SUBGRADE SOILS WAS GENERALLY RANGED FROM MEDIUM STIFF TO VERY STIFF WITH SOME VERY SOFT, SOFT, AND HARD LAYERS AND/OR LENSES. THE RELATIVE DENSITY OF THE ISOLATED GRANULAR SUBGRADE SOILS RANGED FROM VERY LOOSE TO MEDIUM DENSE.

GROUNDWATER WAS NOT ENCOUNTERED IN THE BORINGS WHICH WERE DRILLED AT THE END OF SPRING AND BEGINNING OF SUMMER SEASONS. GROUNDWATER LEVEL FLUCTUATIONS OCCUR DUE TO SEASONAL VARIATIONS IN THE AMOUNT OF RAINFALL, RUNOFF AND OTHER FACTORS NOT EVIDENT AT THE TIME THE BORINGS WERE PERFORMED. GROUNDWATER AMONGST PROFILES OF THIS TYPE IS TYPICALLY FOUND WITHIN GRANULAR SEAMS IN GLACIAL OVERBURDEN SOILS OR FILL.

IN GENERAL, THE SUBSURFACE EXPLORATION INDICATED THAT FDR IS FEASIBLE WITH A FEW CONSIDERATIONS. THE BORINGS DID NOT DISCLOSE ANY LARGE STONE OR COBBLES THAT WOULD BE UNDESIRABLE FOR FDR. THE THICKNESS OF THE ASPHALT SURFACE COURSE SHOULD BE CONSIDERED WHEN DESIGNING THE FDR DEPTH. SINCE THE RECLAIMED FDR BASE SHOULD IDEALLY BE A BLENDED MIXTURE OF BOTH ASPHALT AND AGGREGATE BASE, DEEPER THAN NORMAL PULVERIZATION DEPTHS WILL BE REQUIRED. DEPENDING ON THE PROPOSED GRADING, BLENDED FDR BASE MAY NEED TO BE CUT AND REMOVED FROM THE SITE.

SPECIFICATIONS

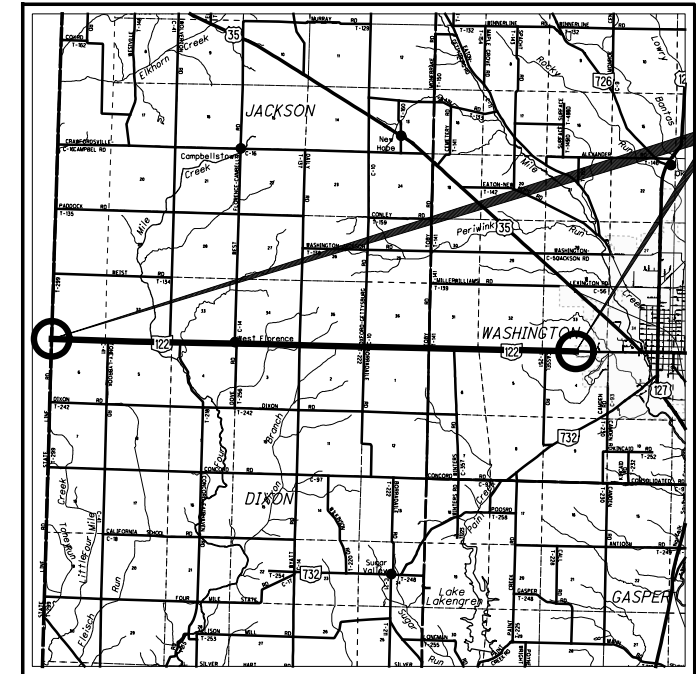
THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS OF GEOTECHNICAL EXPLORATIONS, DATED JANUARY 2021.

AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE OR THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET.

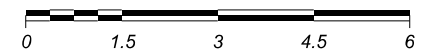
LEGEND

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
GRAVEL/STONE FRAGMENTS	A-1-a	0	8
GRAVEL/STONE FRAGMENTS WITH SAND	A-1-b	0	11
GRAVEL/STONE FRAGMENTS WITH SAND & SILT	A-2-4	2	1
GRAVEL/STONE FRAGMENTS WITH SAND, SILT & CLAY	A-2-6	1	0
GRAVEL/STONE FRAGMENTS WITH SAND, SILT & CLAY	A-2-7	1	0
COARSE & FINE SAND	A-3a	2	0
SANDY SILT	A-4a	26	2
SILT	A-4b	12	0
SILT & CLAY	A-6a	23	0
SILTY CLAY	A-6b	18	1
CLAY	A-7-6	23	1
	TOTAL	108	24
PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
BORING/DCP LOCATION - PLAN VIEW.			

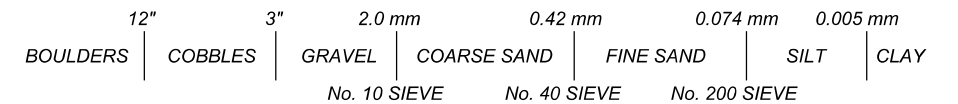


LOCATION MAP

SCALE IN MILES



PARTICLE SIZE DEFINITIONS



PRE-35/122-12.90/0

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SOIL PROFILE

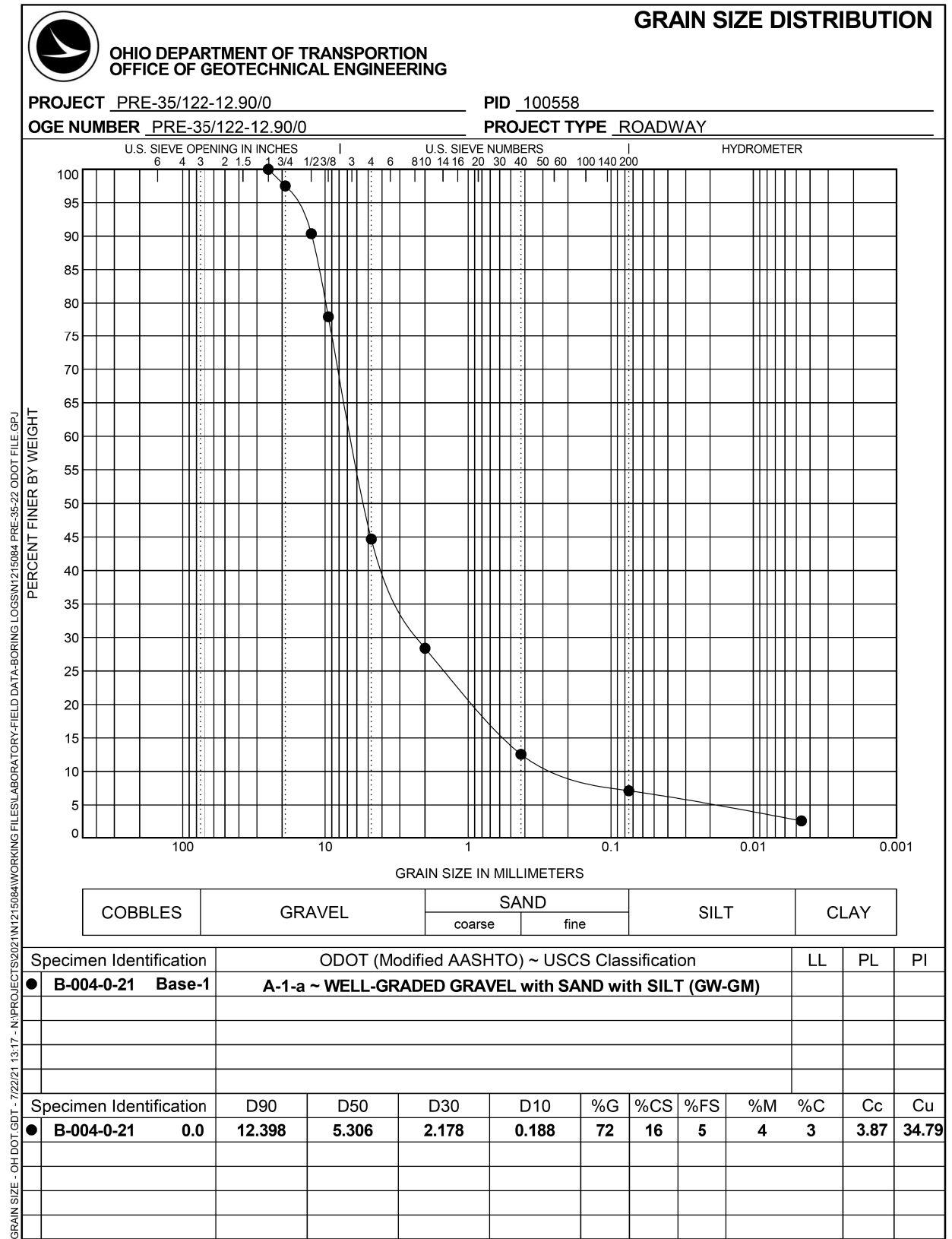
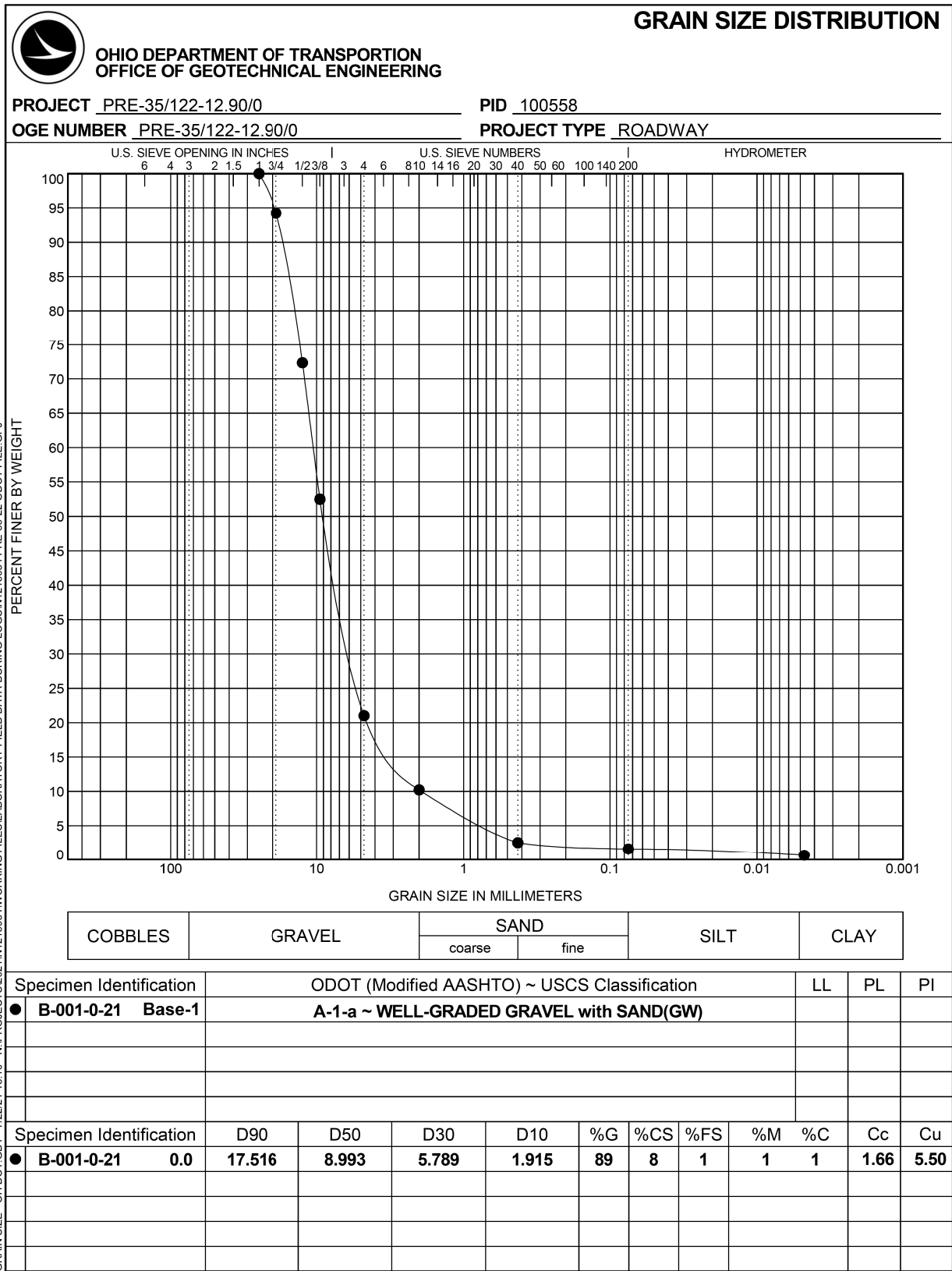
RECON. - BML 5/17/21
 DRILLING - CMK 5/24/21 THROUGH 6/11/21
 DCP TESTING - NS 6/28/21 THROUGH 7/15/21
 DRAWN - KJM 9/6/21
 REVIEWED - BML 9/6/21

DESIGN AGENCY



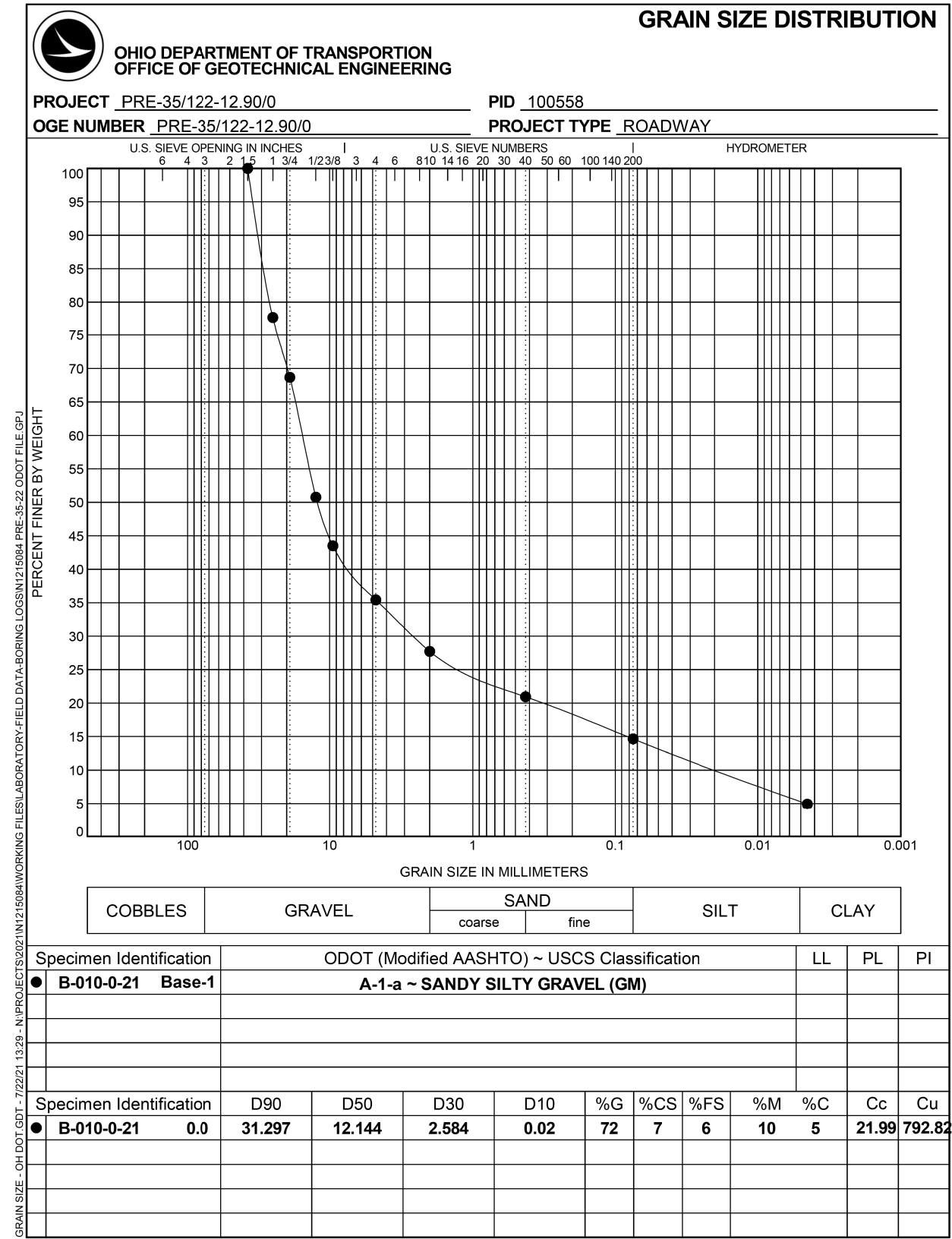
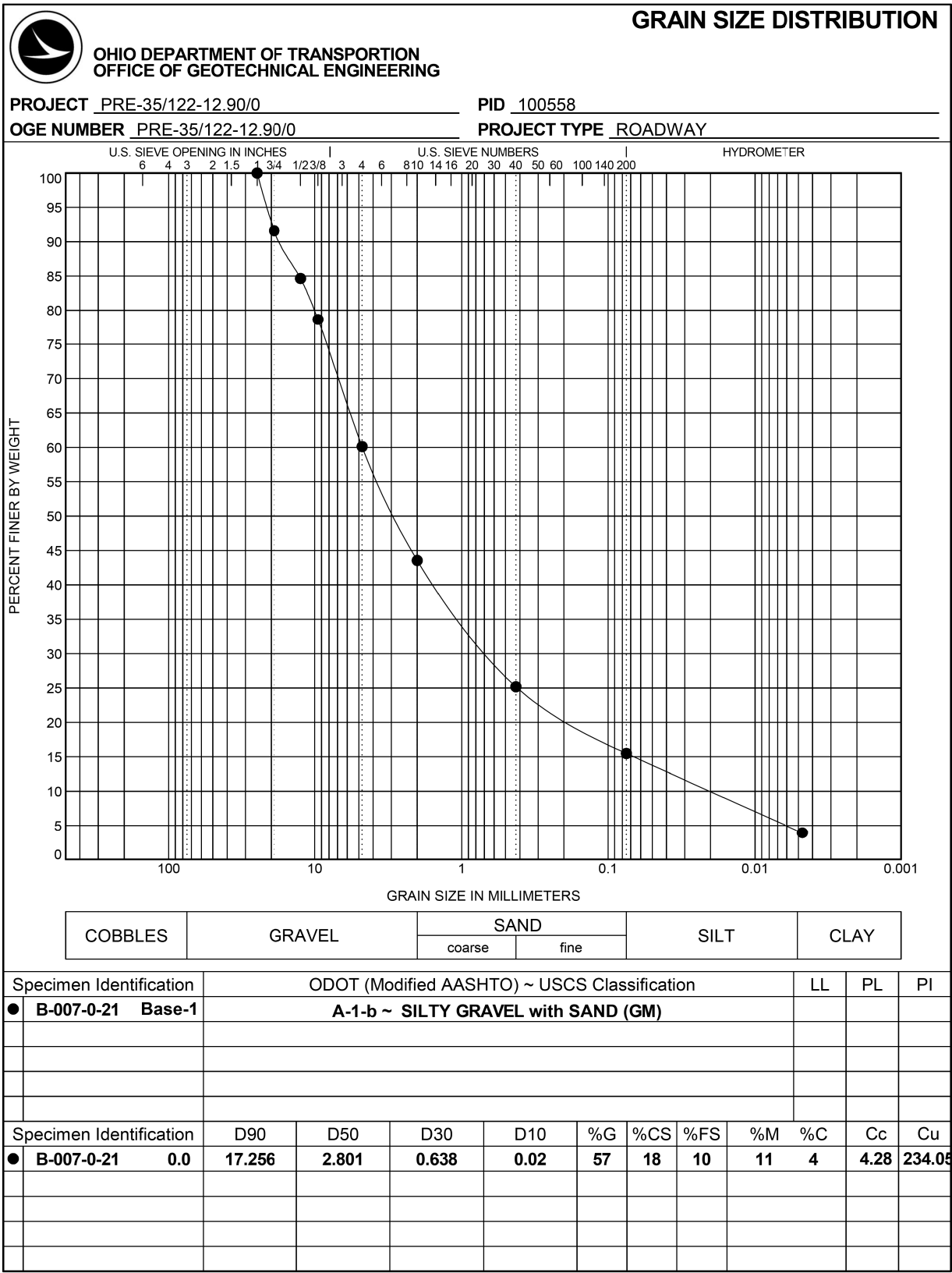
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REVIEWER	JDD 09-07-21
PROJECT ID	100558
SHEET	TOTAL
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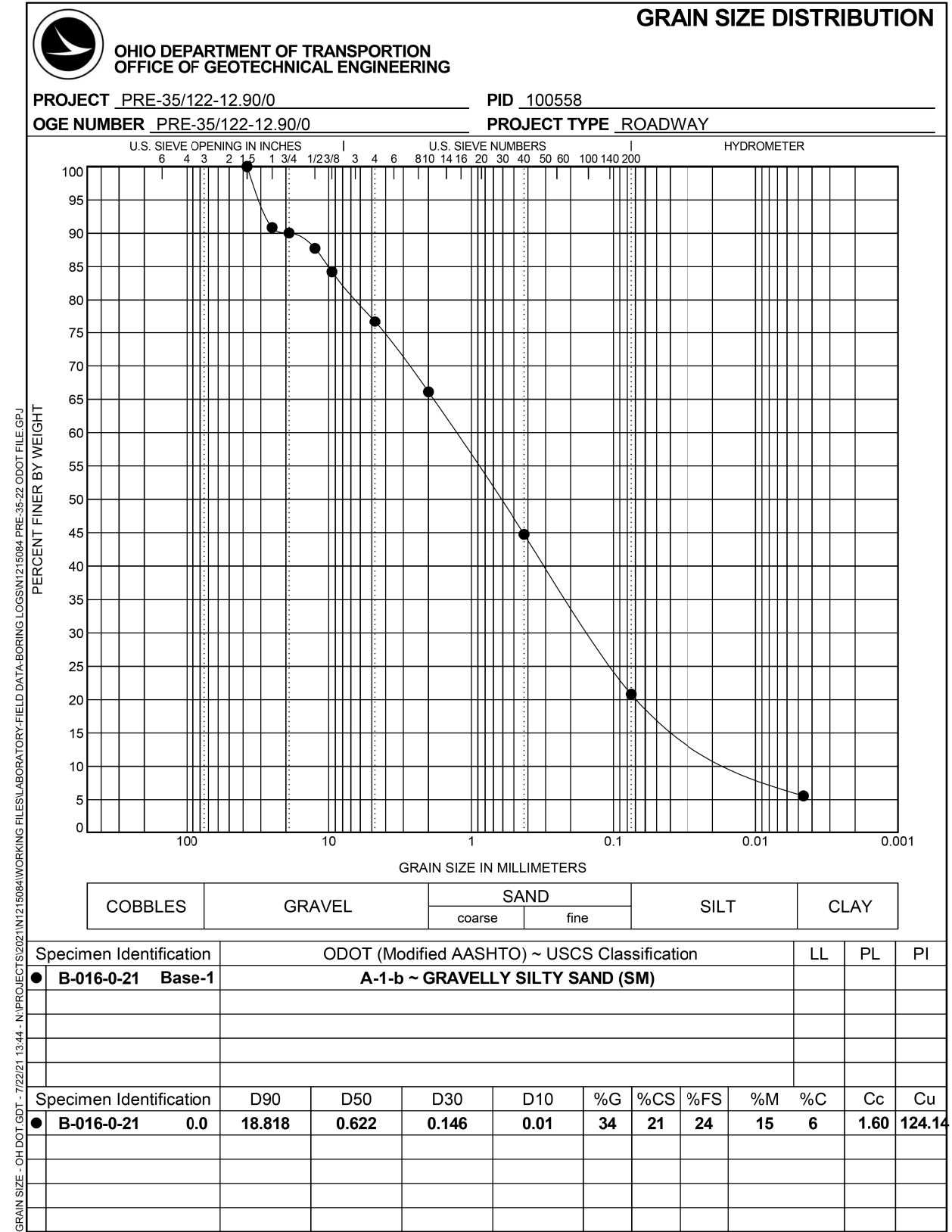
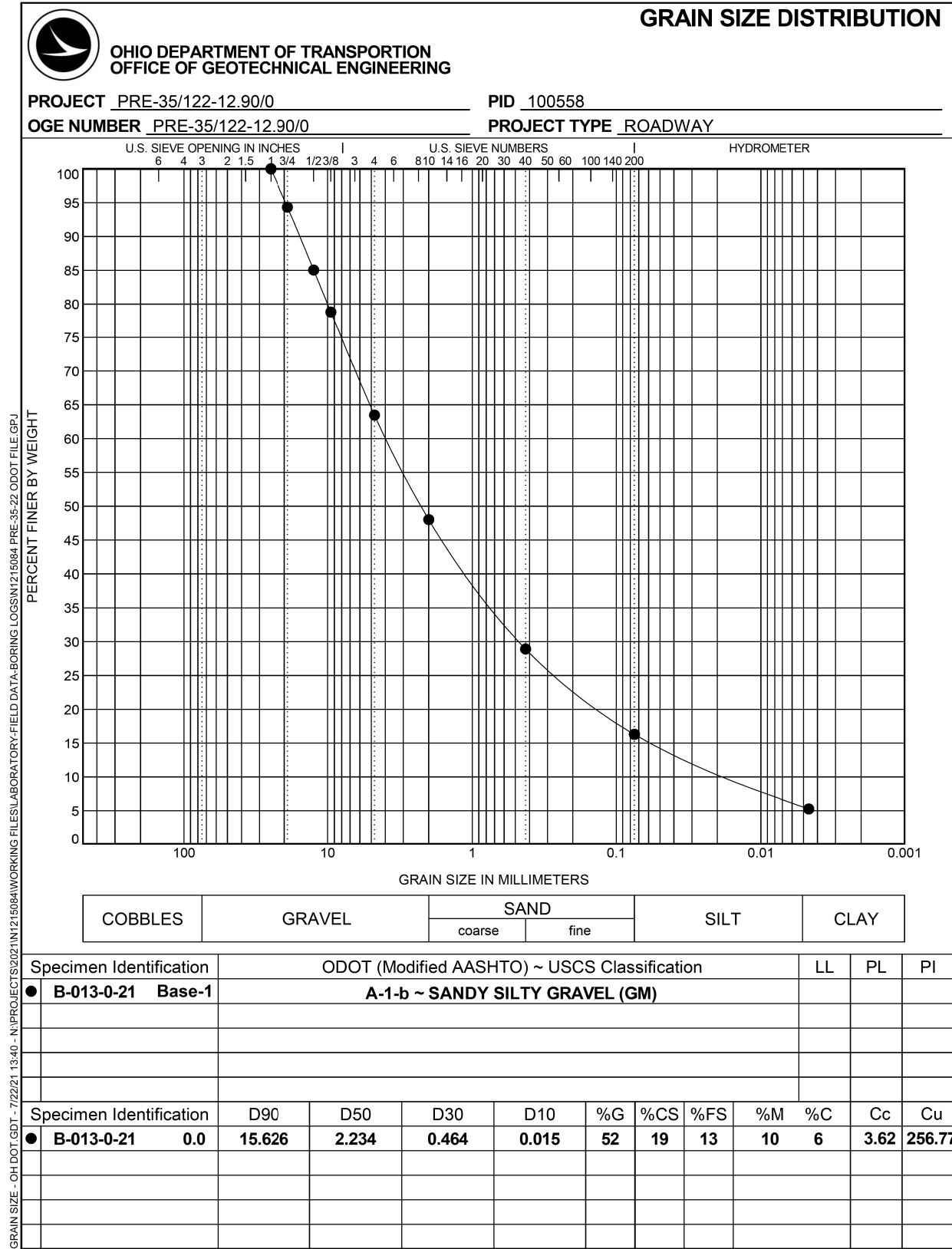
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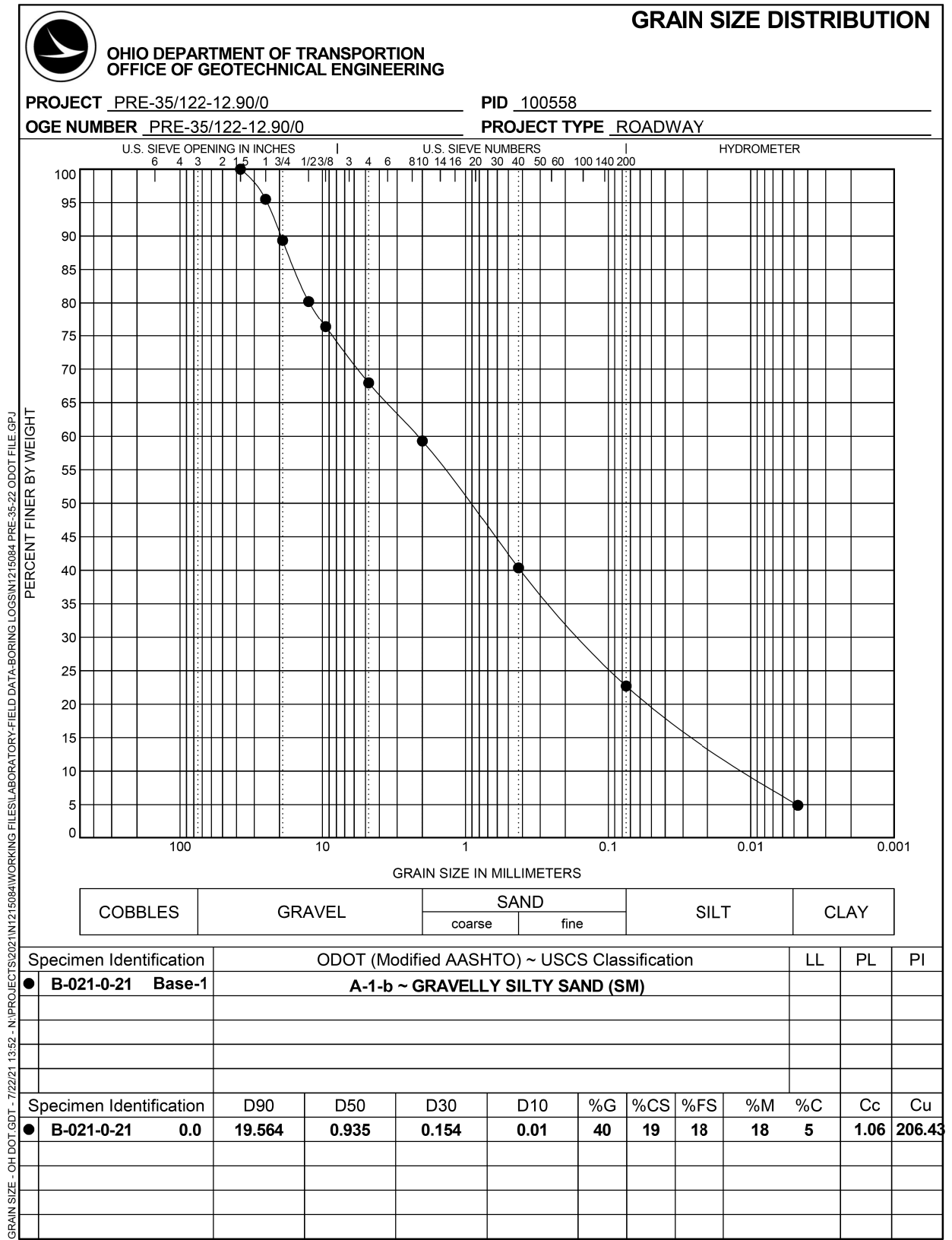
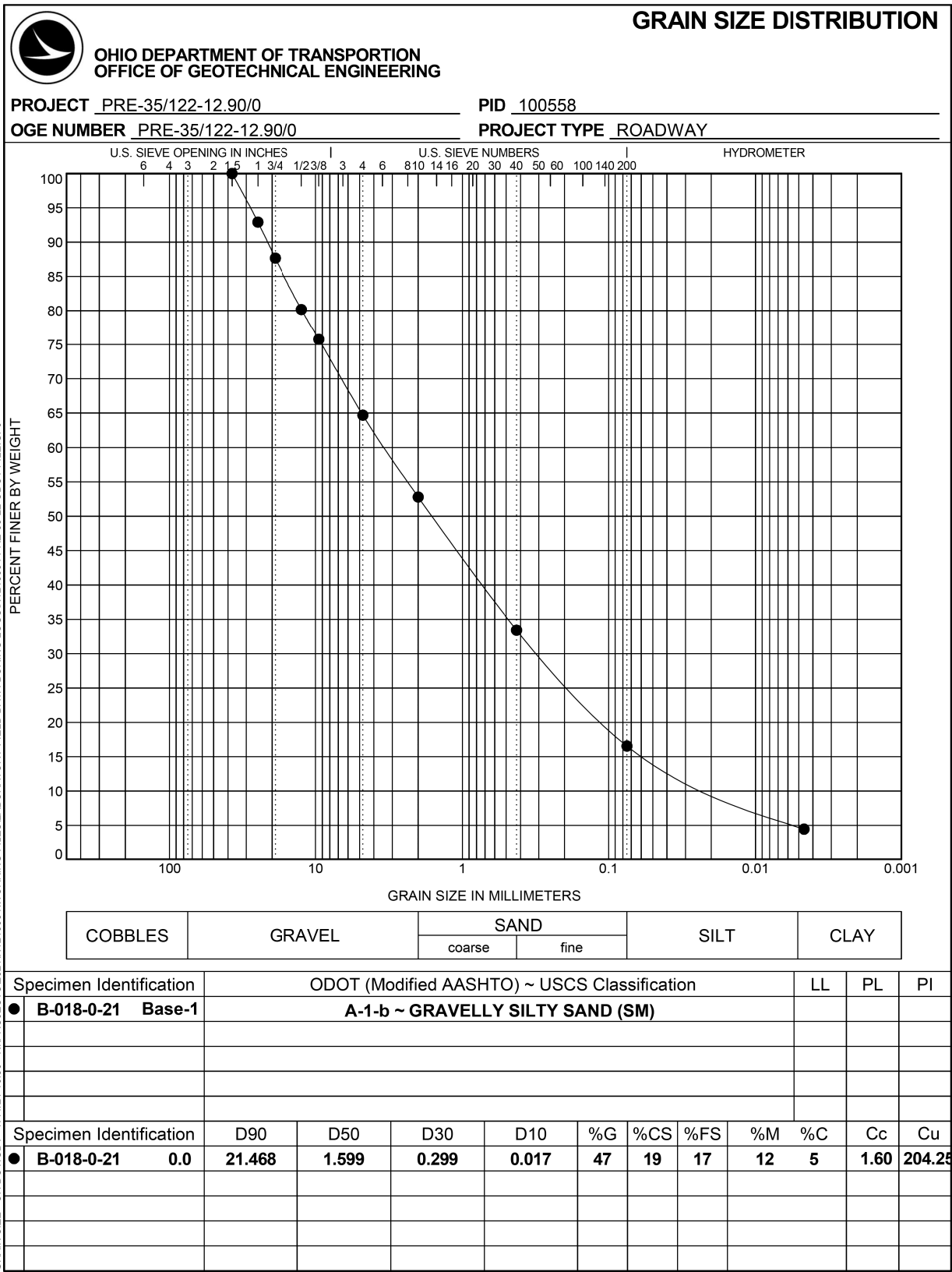
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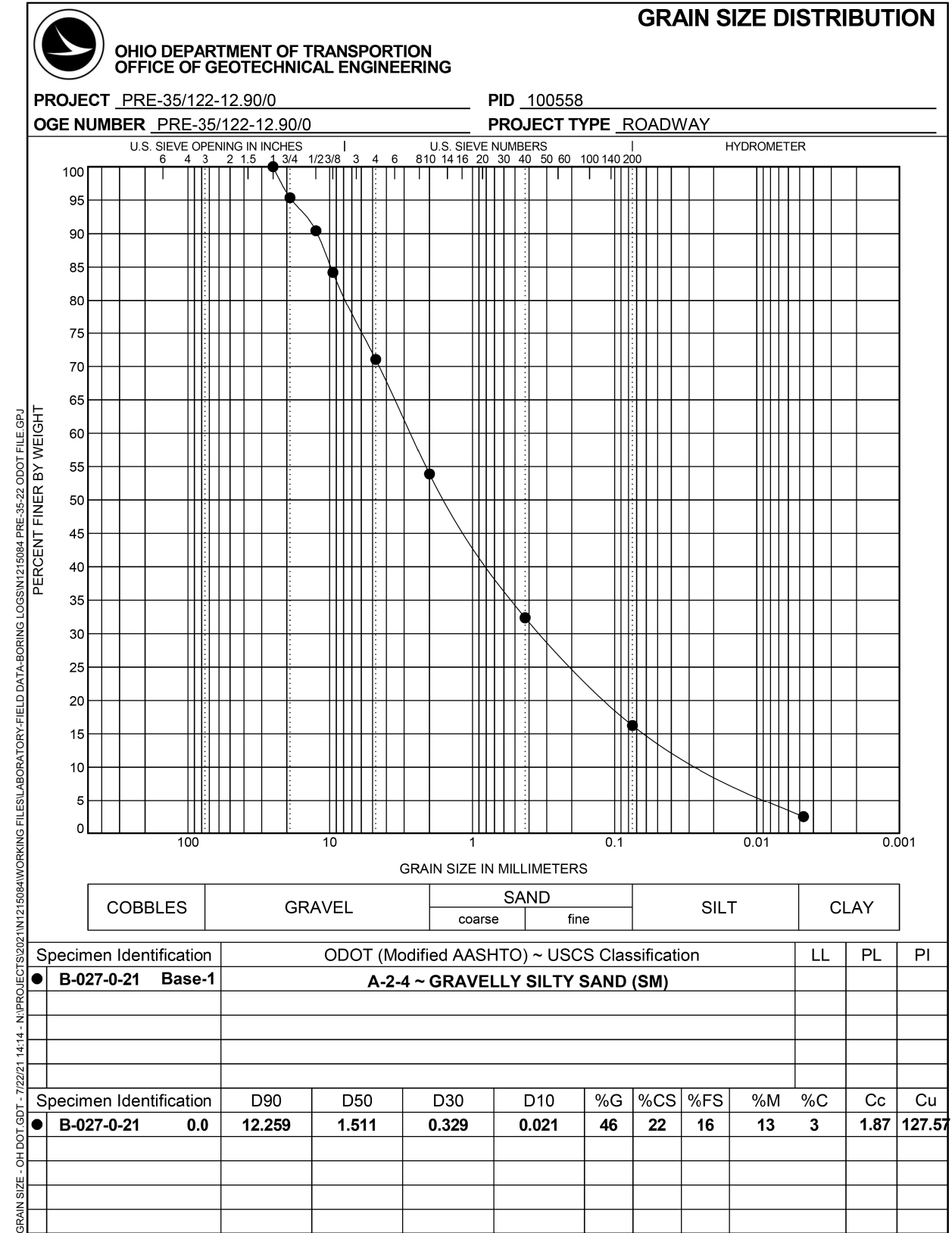
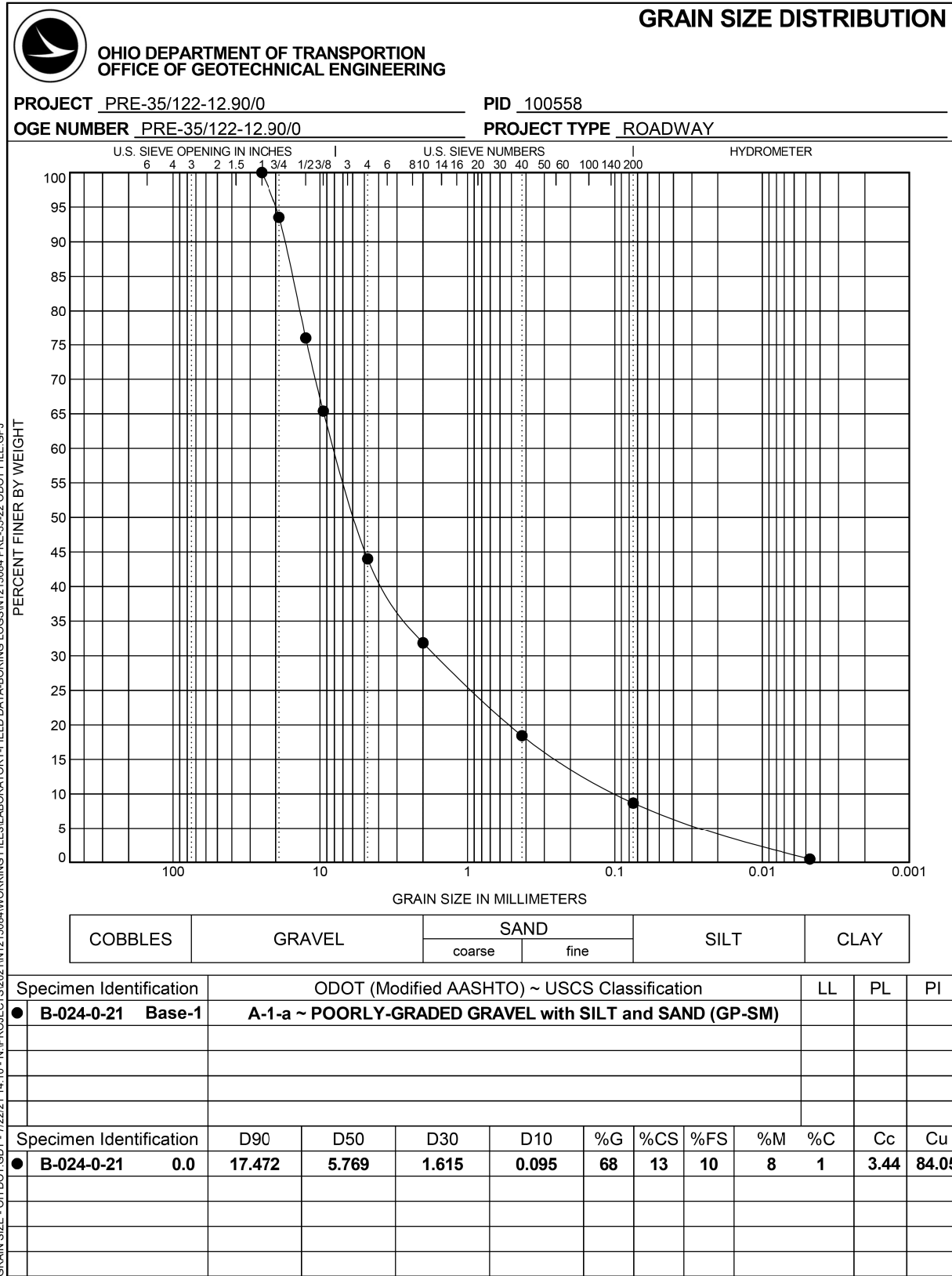




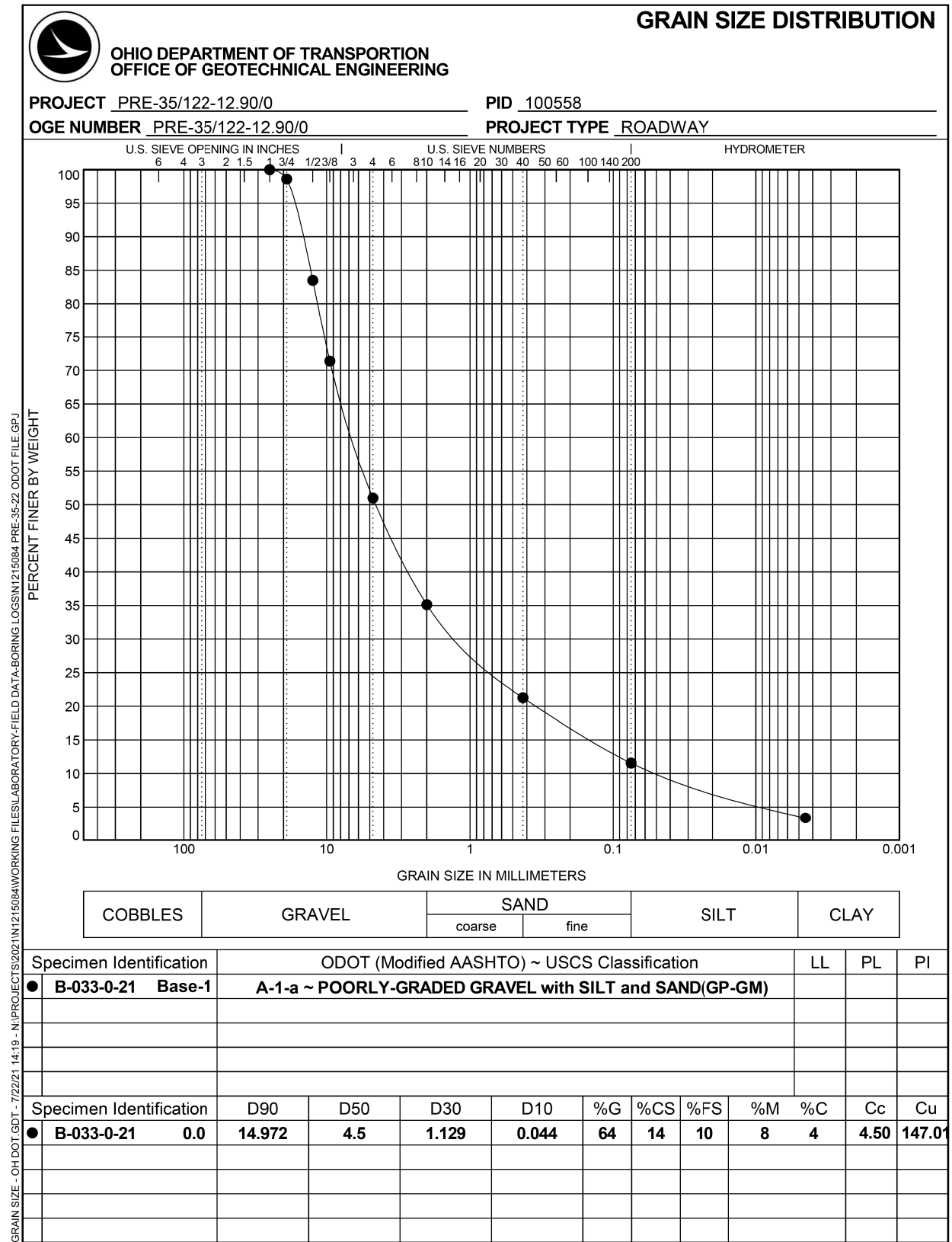
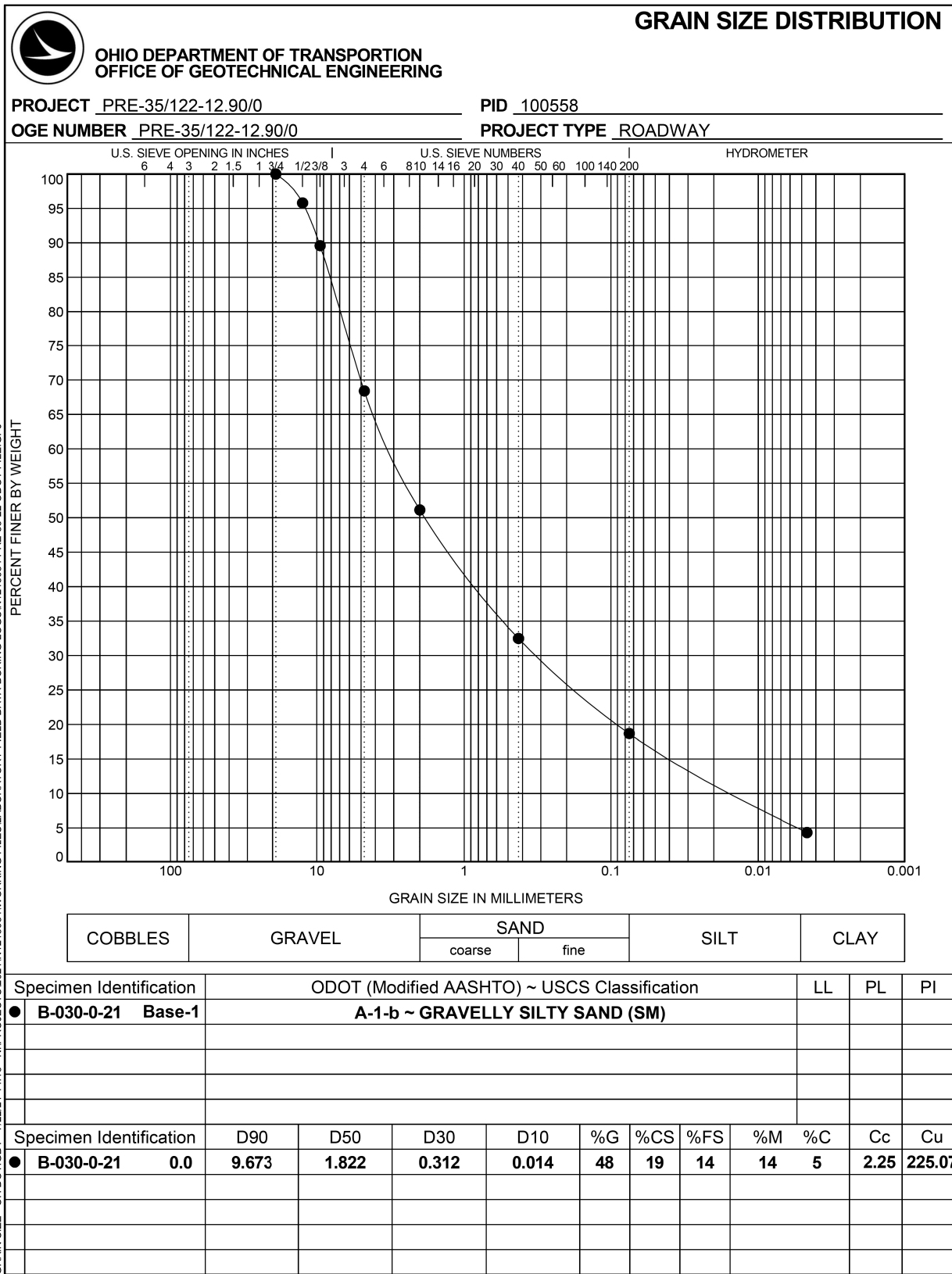
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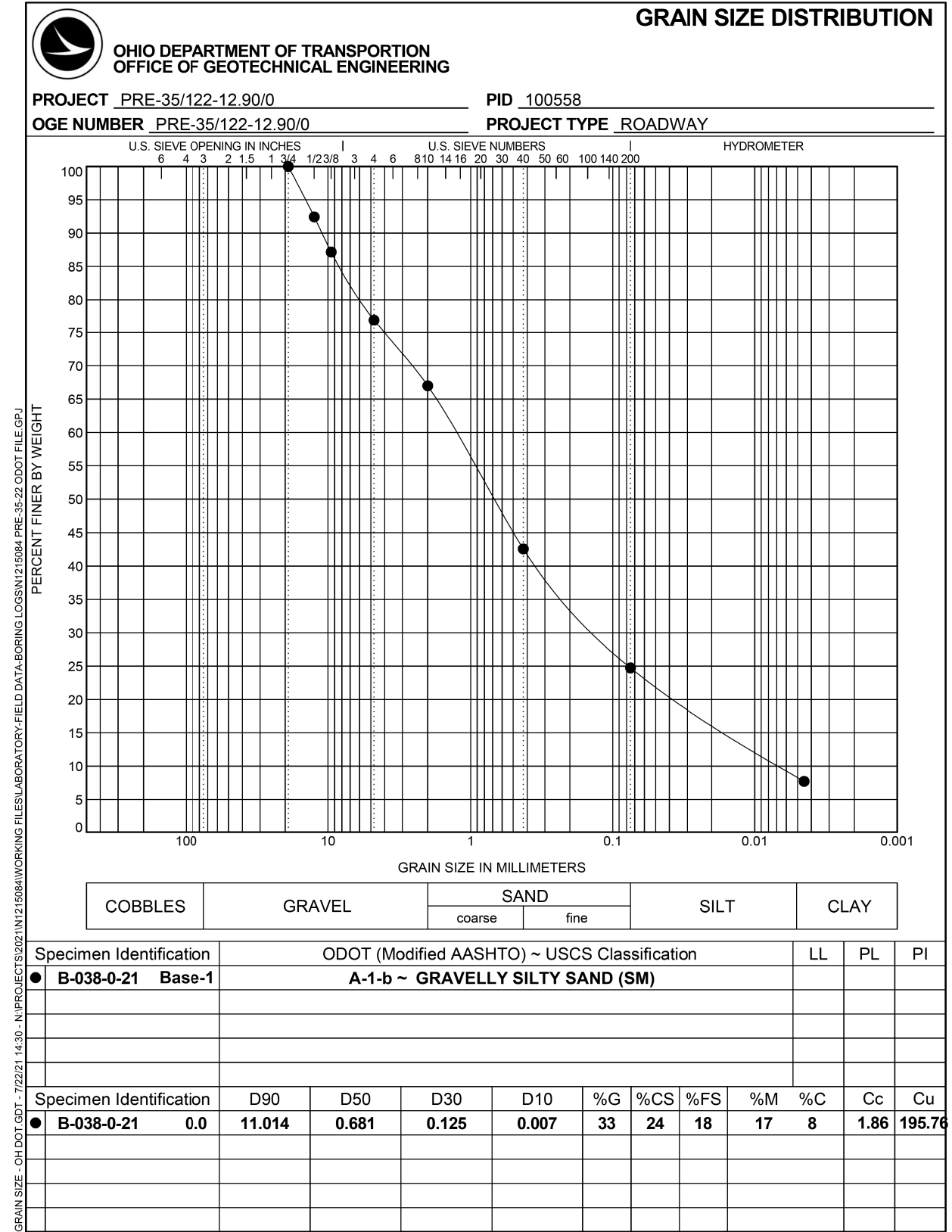
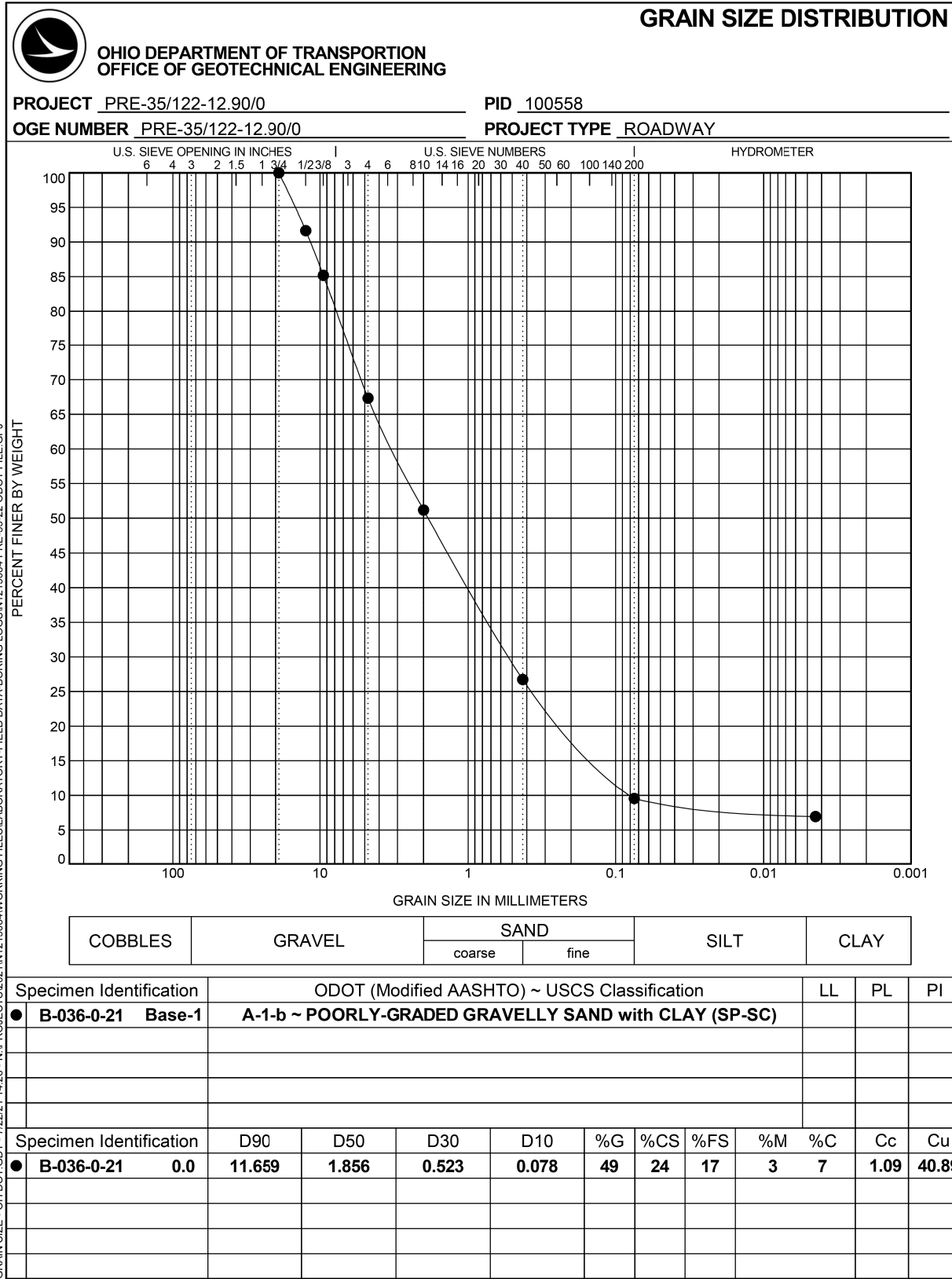
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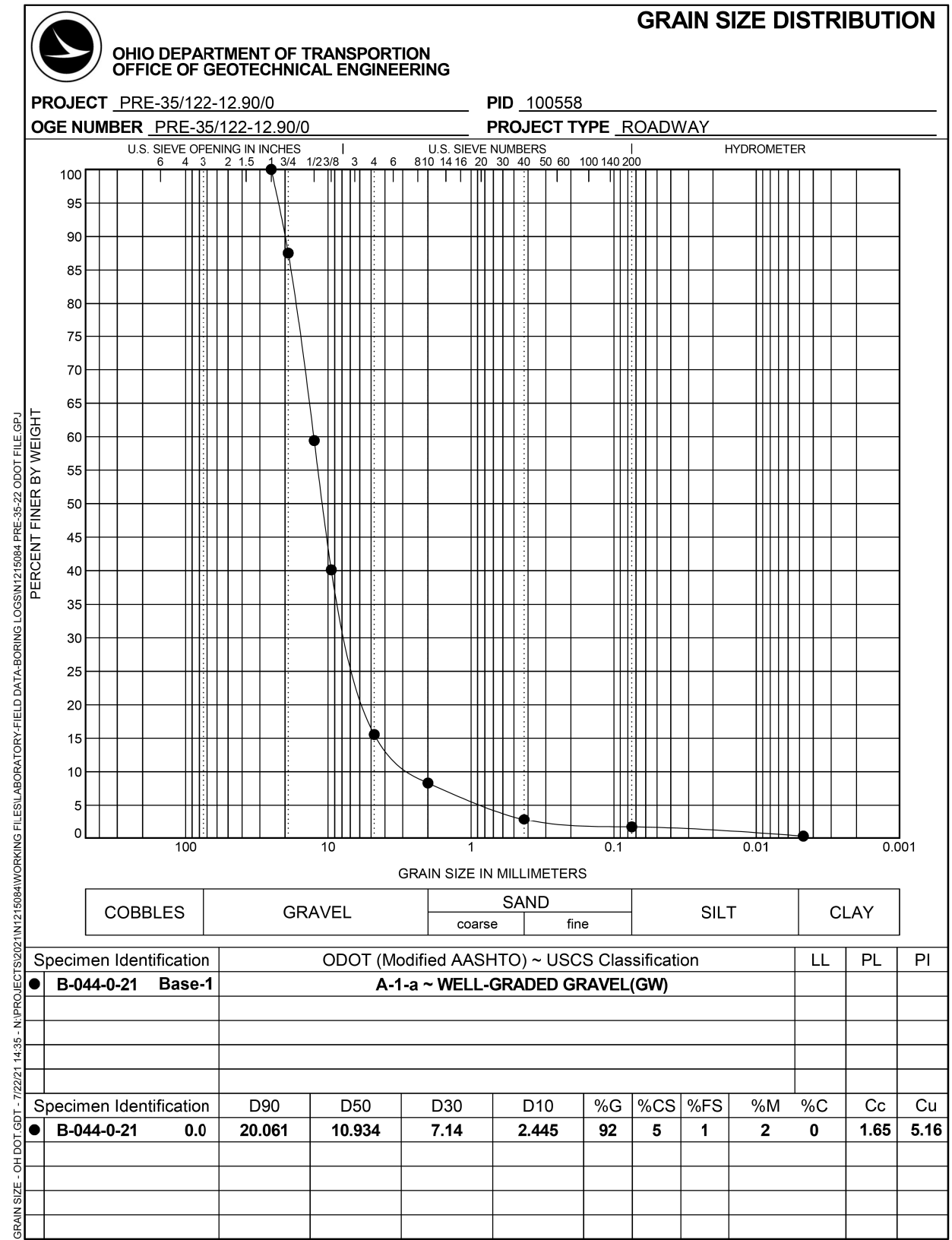
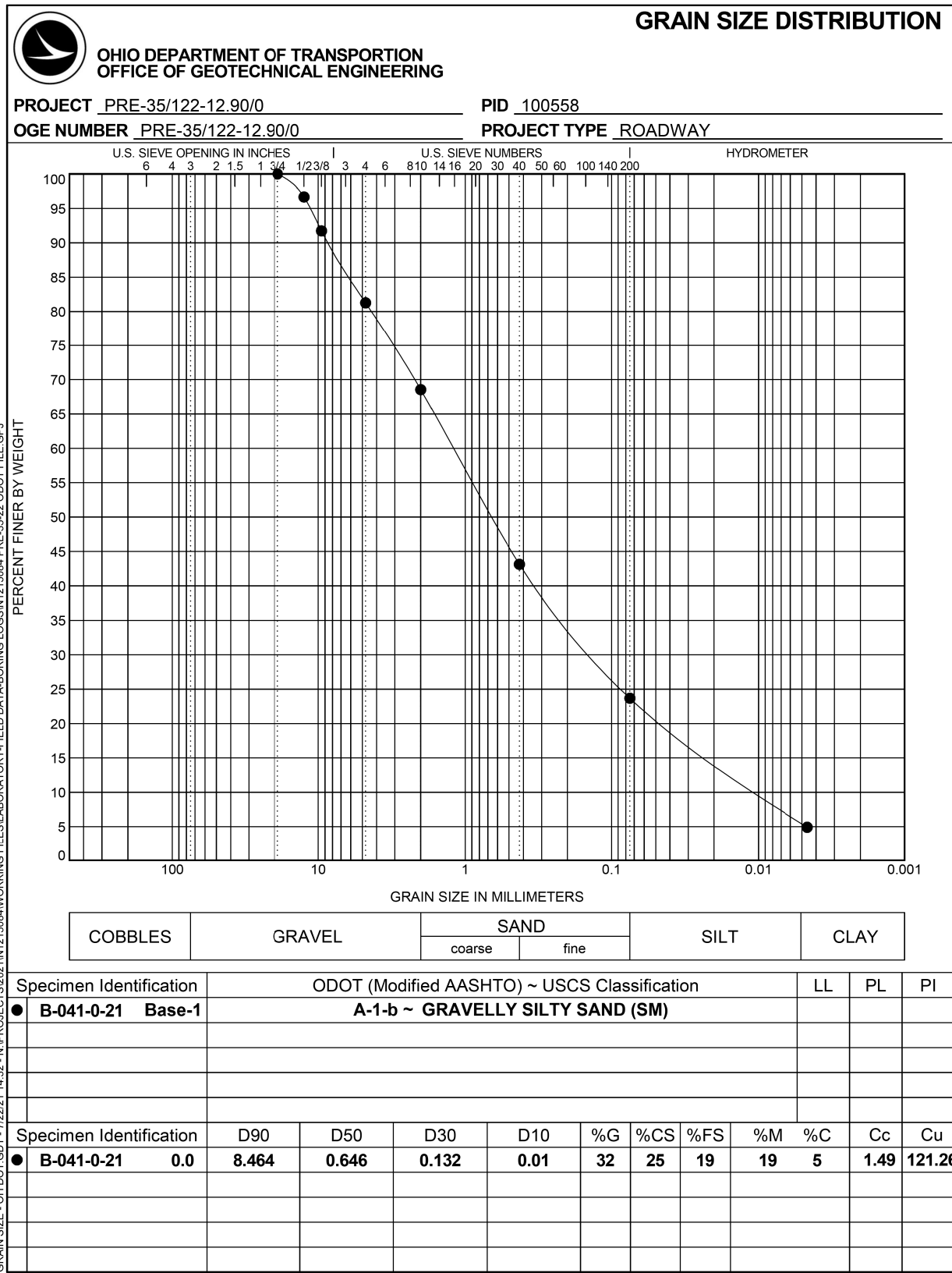


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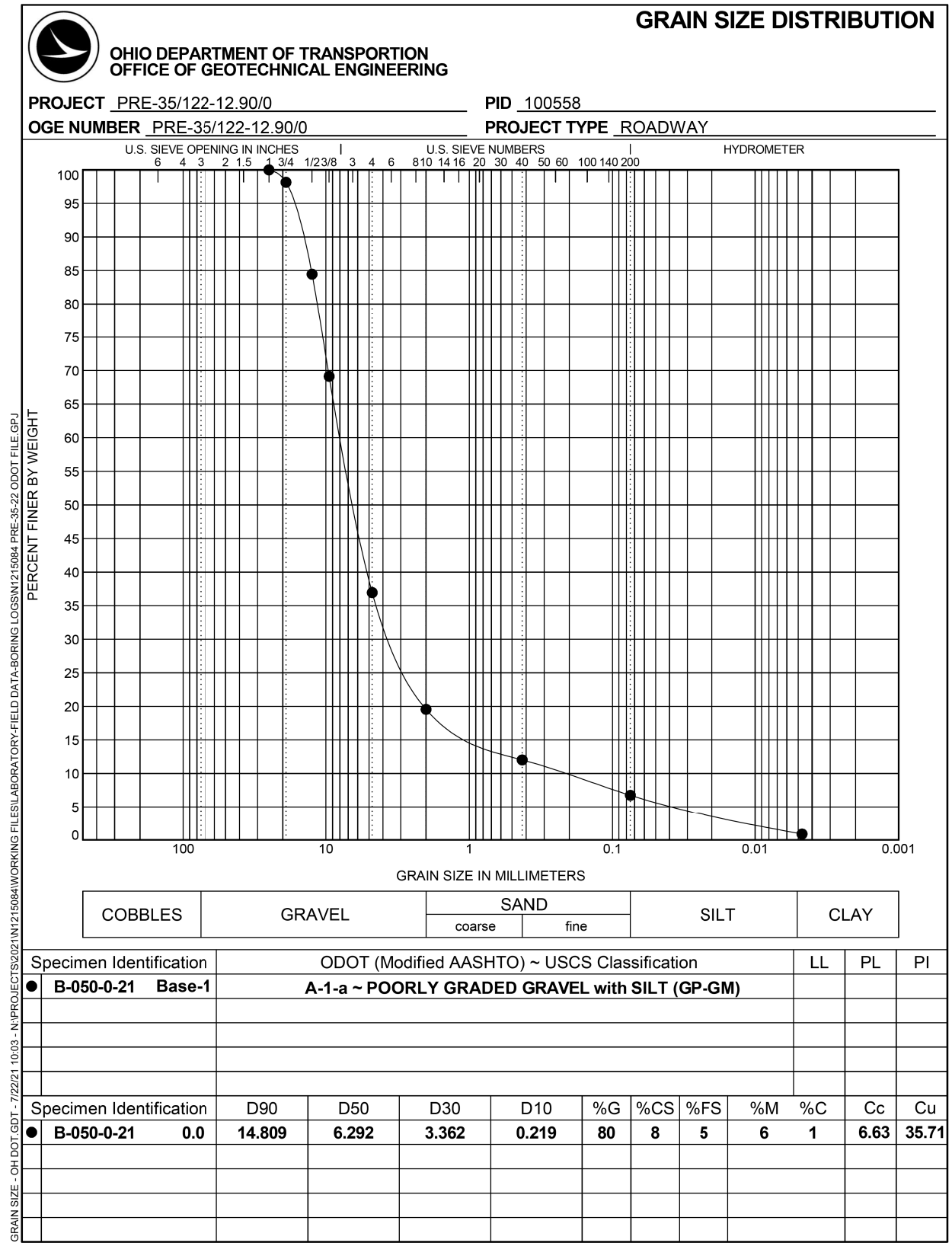
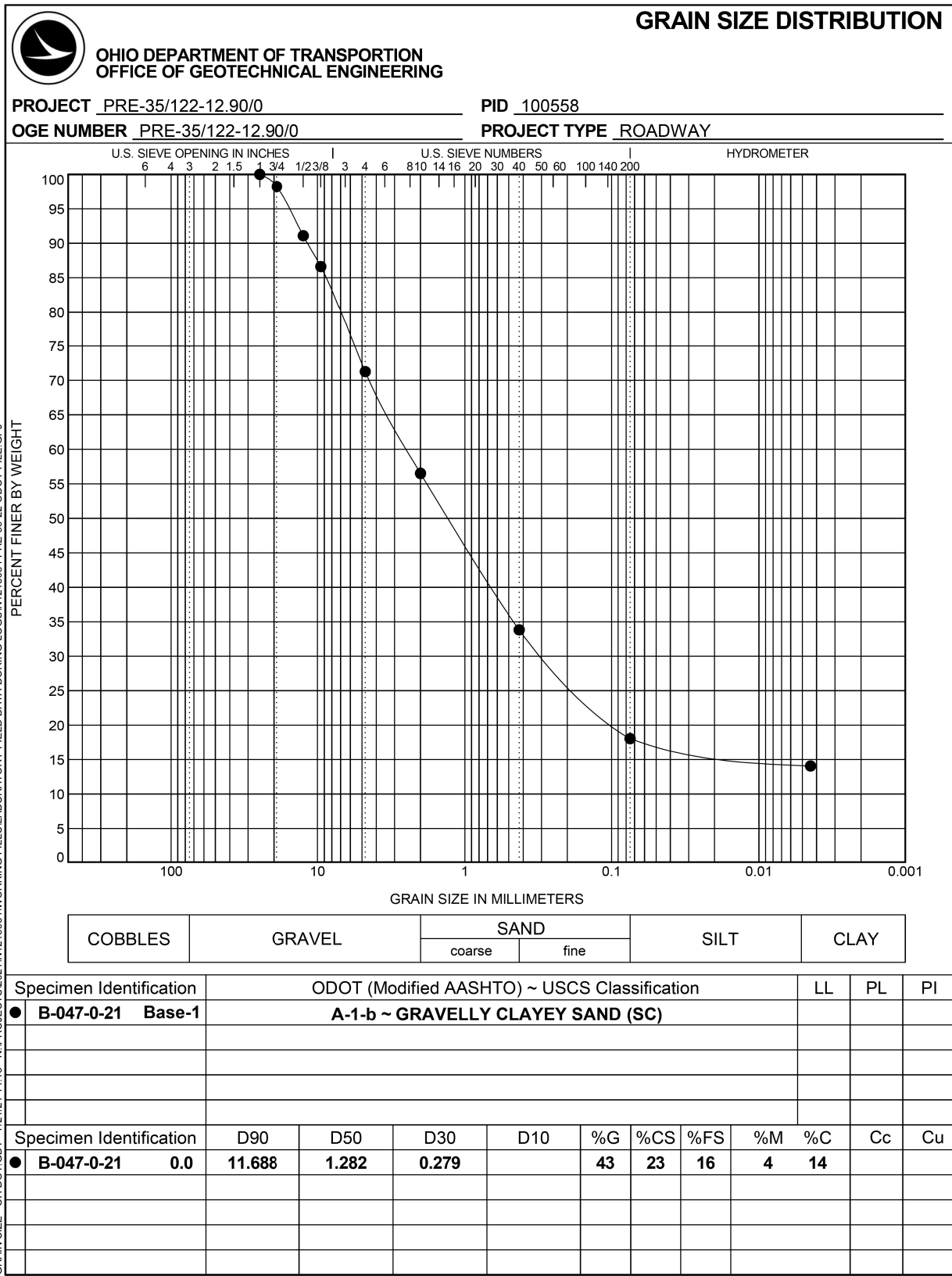
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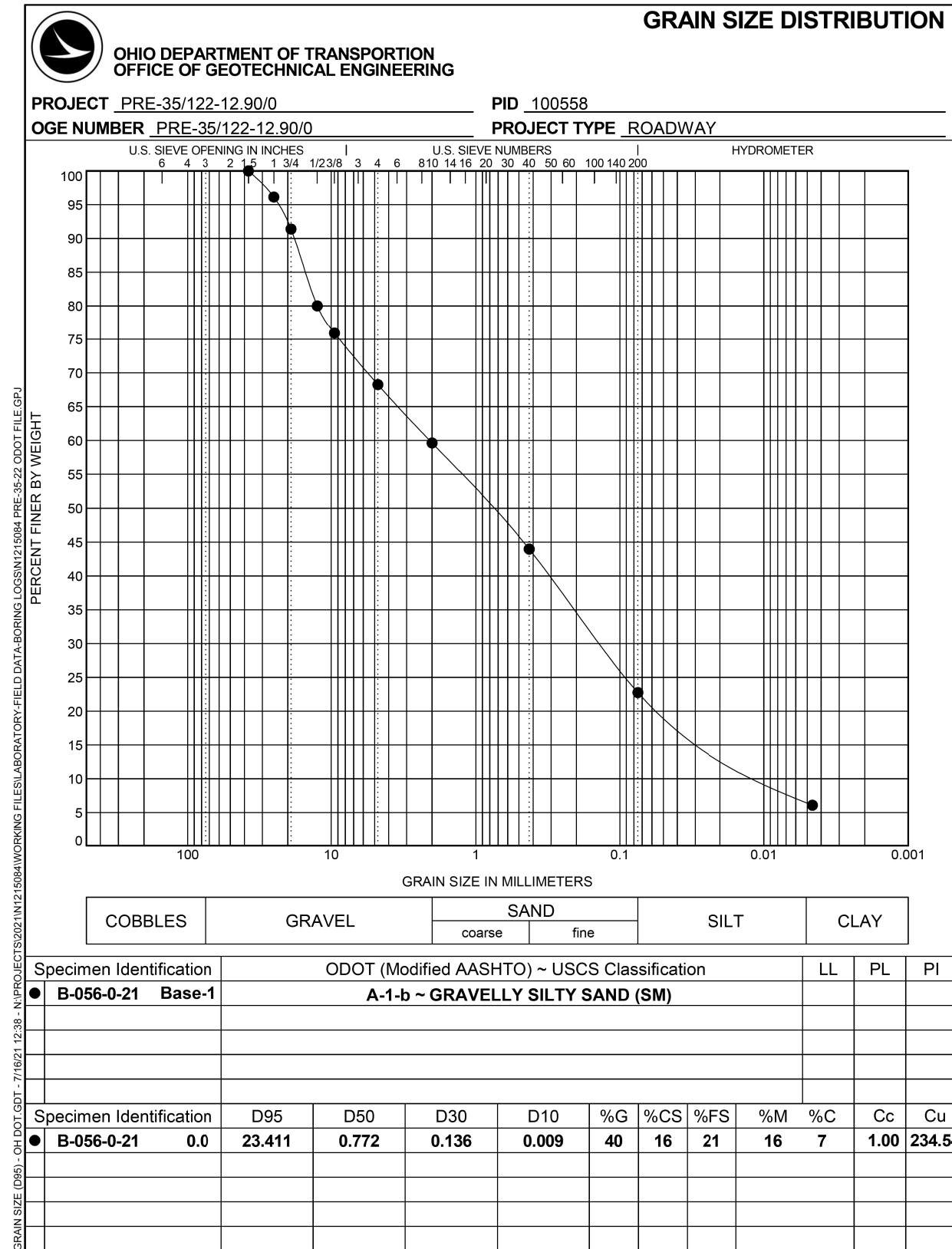
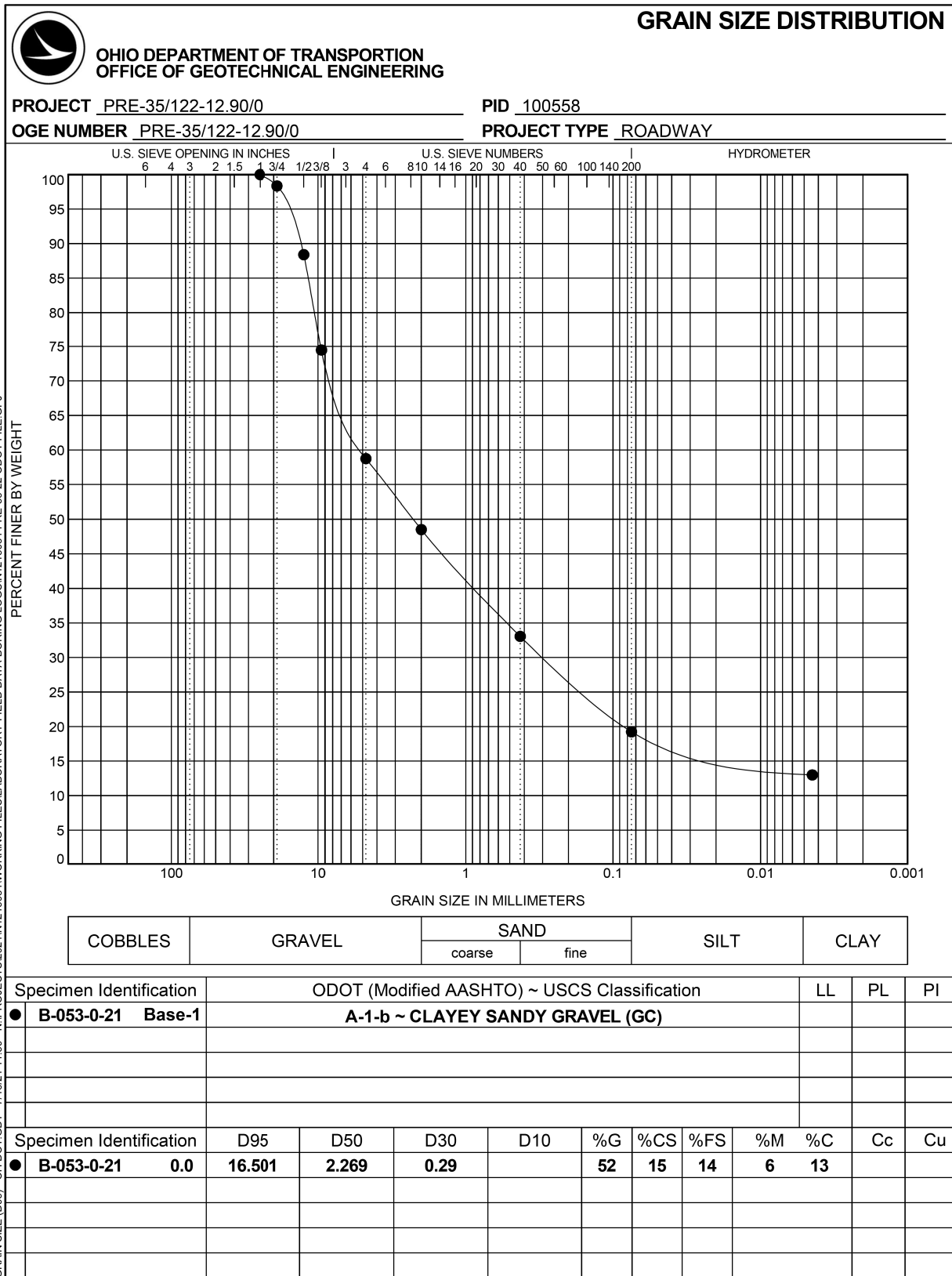
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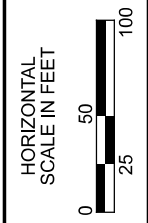
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DESIGN AGENCY	
Terracon <small>Consulting Engineers and Scientists</small>	
DESIGNER	BML
REVIEWER	JDD 09-07-21
PROJECT ID	100558
SHEET	TOTAL
12	81

**SOIL PROFILE
TEST LOCATIONS**

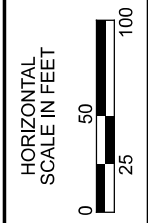


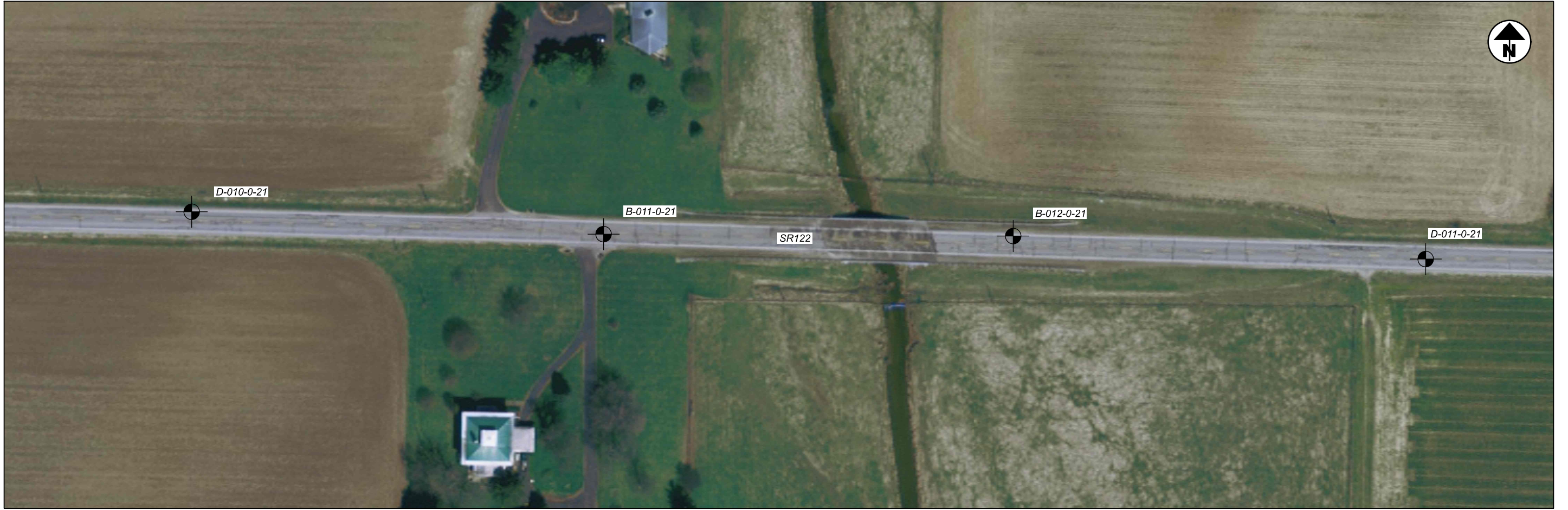


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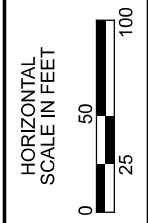
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SOIL PROFILE
TEST LOCATIONS





SHEET	TOTAL
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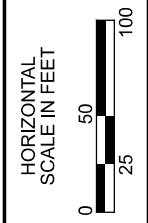
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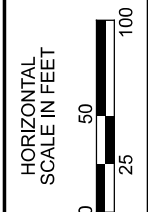
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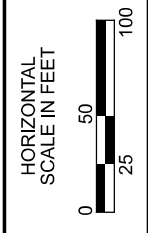




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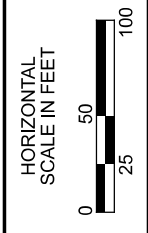
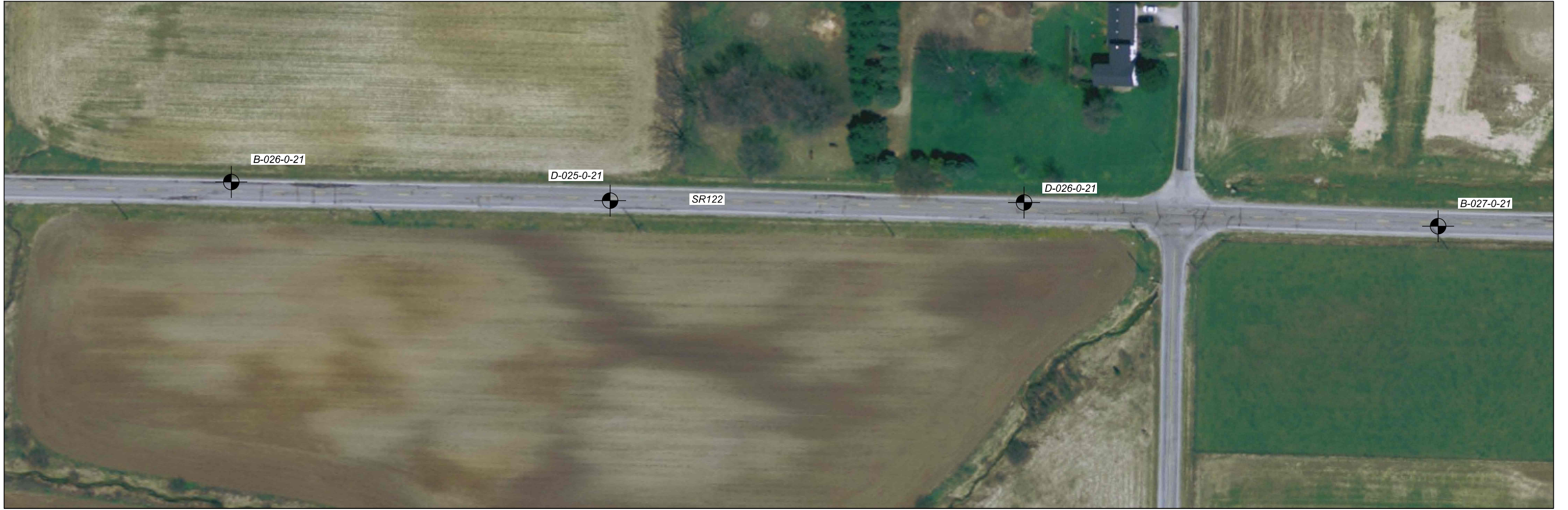
SOIL PROFILE
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SOIL PROFILE TEST LOCATIONS

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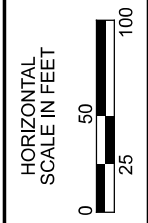
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SOIL PROFILE
TEST LOCATIONS

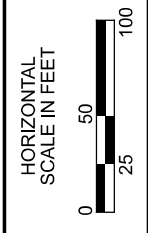


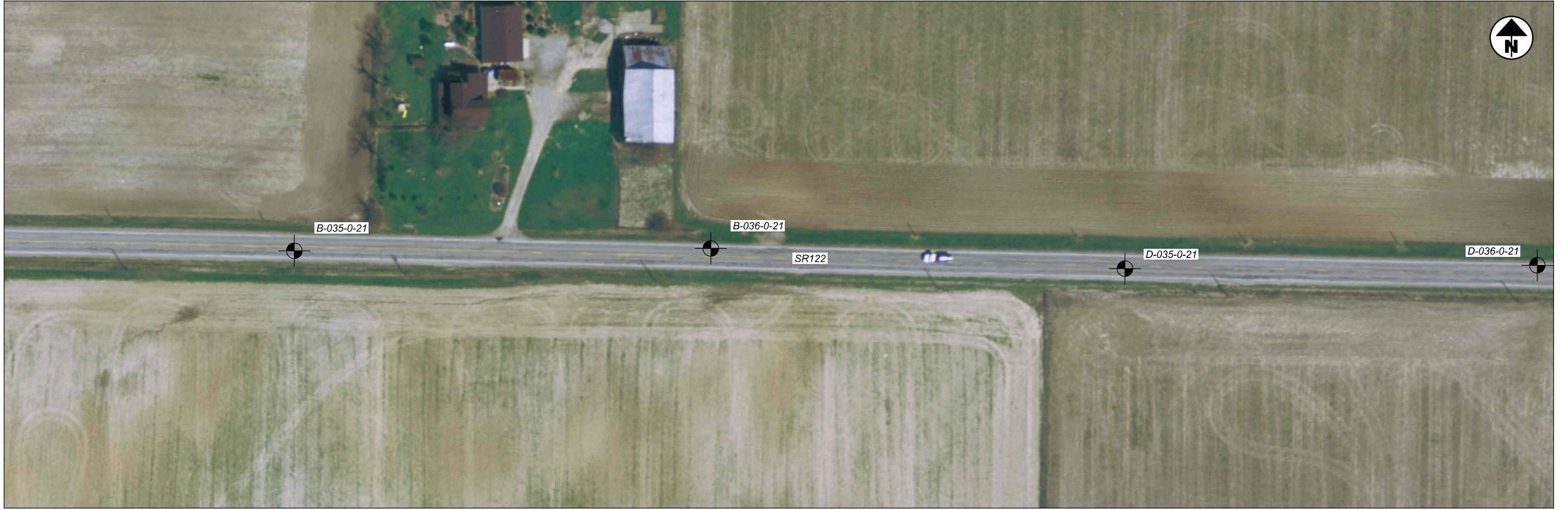


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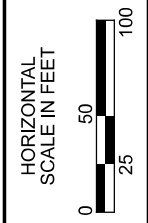
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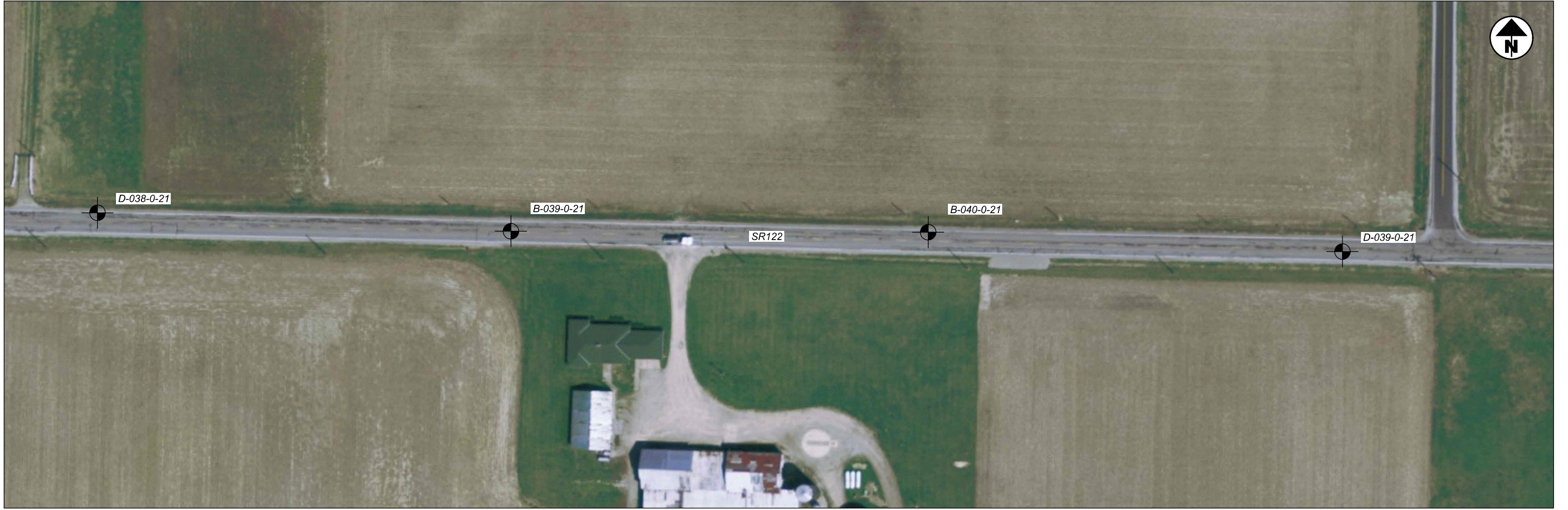




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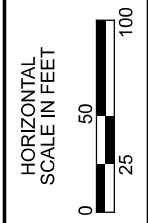
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SOIL PROFILE
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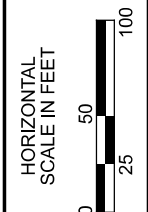


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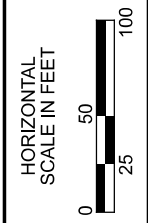
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SOIL PROFILE
TEST LOCATIONS





SHEET	TOTAL
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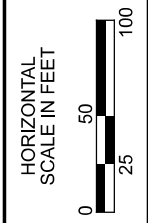
REVIEWER
JDD 09-07-21

DESIGNER
BML



DESIGN AGENCY

SOIL PROFILE
TEST LOCATIONS





DESIGN AGENCY



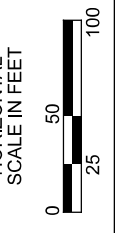
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100558

SHEET	TOTAL
26	81

SOIL PROFILE
TEST LOCATIONS



PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-001-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1139.0 (MSL) EOB: 4.5 ft.	PAGE
START: 5/24/21 END: 5/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743541, -84.814235	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9 INCHES BASE: 7 INCHES	ELEV. 1139.0	REC SAMPLE ID	GRADATION (%)	ATTERBERG
		N ₆₀ (%)	GR CS FS SI CL	LL PL PI WC
STIFF TO VERY STIFF, GRAY, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, PETROL ODOR, MOIST	1137.7	100 BASE-1	8 1 1 1	- - - A-1-a (V)
MEDIUM STIFF, BROWN TO GRAY, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, MOIST	1136.0	22 SS-1	11 12 52 15	- - - 18 A-4a (V)
		7 100 SS-2	6 14 49 30 35	20 26 A-6b (12)
	1134.5 EOB			

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGL\O\SIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\INPROJEC

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-002-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1131.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743550, -84.812825	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11 INCHES BASE: 8.25 INCHES	ELEV. 1131.0	REC SAMPLE ID	GRADATION (%)	ATTERBERG
		N ₆₀ (%)	GR CS FS SI CL	LL PL PI WC
MEDIUM STIFF TO STIFF, GRAY TO BROWN, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, PETROL ODOR, DAMP	1129.4	7 83 SS-1	4 8 11 51 26 30 19 11	15 A-6a (8)
MEDIUM STIFF, BROWN, CLAY, AND SILT, TRACE SAND, TRACE GRAVEL, MOIST	1128.0	7 94 SS-2	1 2 4 54 39 45 18 27	25 A-7-6 (16)
	1126.5 EOB			

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGL\O\SIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\INPROJEC

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PRE-35/122-12.90/0

MODEL: SHEET 2 PAPER: 9/7/2021 10:02:35 AM USER: k.jmankin
 C:\Users\k.jmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGLON\ISIONEDRIVE - TERRACON CONSULTANTS\INCDESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID: B-003-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1127.0 (MSL) EOB: 4.5 ft.	PAGE 1 OF 1
START: 6/8/21 END: 6/9/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743523, -84.811410	
MATERIAL DESCRIPTION AND NOTES	ELEV. DEPTHS	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (GI)
ASPHALT, 14 INCHES BASE: 4.5 INCHES	1127.0 1 2 3 4		GR CS FS SI CL LL PL PI WC	SO4 ppm
MEDIUM STIFF, BROWN TO GRAY, SILT AND CLAY SOME SAND, LITTLE GRAVEL, PETROL ODOR, MOIST	1125.5 1 2 3 4	78 SS-1	15 18 15 29 23 33 18 15 30	A-6a (5) <100
MEDIUM STIFF TO STIFF, BROWN TO GRAY, CLAY, AND SILT, LITTLE SAND, TRACE GRAVEL, MOIST	1124.0 2 3 4	83 SS-2	4 9 46 40 45 18 27 26	A-7-6 (16) <100
	1122.5			
	EOB			

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGLON\ISIONEDRIVE - TERRACON CONSULTANTS\INCDESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID: B-004-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1132.0 (MSL) EOB: 4.5 ft.	PAGE 1 OF 1
START: 5/24/21 END: 5/24/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743554, -84.809988	
MATERIAL DESCRIPTION AND NOTES	ELEV. DEPTHS	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (GI)
ASPHALT, 13 INCHES BASE: 5 INCHES	1132.0 1 2 3 4		GR CS FS SI CL LL PL PI WC	SO4 ppm
MEDIUM STIFF TO STIFF, GRAY TO BROWN, SILT AND CLAY, SOME SAND, LITTLE GRAVEL, MOIST	1130.5 2 3 4	100 BASE-1 33 SS-1	72 16 5 4 3 - - - A-1-a (V) -	<100
MEDIUM STIFF, BROWN TO GRAY, GRAVEL AND/OR STONE FRAGMENTS WITH SAND, SILT, AND CLAY, WET	1129.0 2 3 4	83 SS-2	0.50 32 18 19 6 25 42 16 26 25	A-2-7 (3) <100
	1127.5			
	EOB			

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

SOIL PROFILE
BORING LOGS B-003-0-21 AND B-004-0-21

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-005-0-21
PID: 100558 SFN: 6/8/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1133.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG:	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10.5 INCHES BASE: 7.5 INCHES	ELEV. 1133.0	REC N ₆₀ (%)	GRADATION (%)	ODOT CLASS (GI)
MEDIUM STIFF, GRAY TO BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST - transitions to A-7-6 at 2.5 feet	1131.5	7	17 15 39 23 28 14 14 21	A-6a (7)
MEDIUM STIFF TO STIFF, GRAY TO BROWN, CLAY, AND SILT, LITTLE SAND, TRACE GRAVEL, MOIST	1130.0	9	4 9 41 45 42 16 26 31	A-7-6 (15)
	1128.5 EOB			100

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-006-0-21
PID: 100558 SFN: 6/8/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1128.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG:	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10 INCHES BASE: 8 INCHES	ELEV. 1128.0	REC N ₆₀ (%)	GRADATION (%)	ODOT CLASS (GI)
MEDIUM STIFF, GRAY TO BROWN, CLAY, AND SILT, LITTLE TO SOME SAND, TRACE GRAVEL, DAMP	1126.5	6	8 15 45 27 - - 22	A-7-6 (V)
	1123.5 EOB	6	5 8 47 37 44 23 21 17	A-7-6 (13)
		78		130

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-013-0-21
PID: 100558 SFN: 5/28/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1113.0 (MSL) EOB: 4.5 ft.	PAGE
START: 5/28/21 END: 5/28/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG:	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10 INCHES BASE: 10 INCHES	ELEV. 1113.0	REC SAMPLE ID	GRADATION (%)	ATTERBERG
		N ₆₀	GR CS FS SI CL LL PL WC	ODOT CLASS (GI)
VERY LOOSE BROWN, COARSE AND FINE SAND, SOME SILT, LITTLE CLAY, LITTLE GRAVEL, WET	1111.3	100	52 19 13 10 6	-
		4		-
STIFF, BROWN TO GRAY CLAY, AND SILT, SOME SAND, TRACE GRAVEL, MOIST	1110.0	67	16 27 23 22 12 19 15 4	A-3a (0)
		9		
	1108.5 EOB	89	17 37 34 43 18 25 25	A-7-6 (14)
		3		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-014-0-21
PID: 100558 SFN: 6/10/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1113.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG:	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10.75 INCHES BASE: 7.75 INCHES	ELEV. 1113.0	REC SAMPLE ID	GRADATION (%)	ATTERBERG
		N ₆₀	GR CS FS SI CL LL PL WC	ODOT CLASS (GI)
MEDIUM STIFF TO STIFF, BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, PETROL ODOR, DAMP	1111.5	7		
		3		
STIFF TO VERY STIFF, GRAY TO BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, DAMP	1110.0	106	16 22 26 25 11 16 14 2	A-4a (0)
		9		
	1108.5 EOB	94	12 18 41 24 29 15 14	A-6a (8)
		4		

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID														
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-015-0-21														
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1116.0 (MSL) EOB: 4.5 ft.	PAGE														
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743536, -84.794420	1 OF 1														
MATERIAL DESCRIPTION AND NOTES																		
ASPHALT: 10.5 INCHES BASE: 7.5 INCHES	ELEV. 1116.0	DEPTHS	SPT/ RQD	REC (%)	HP ID	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL	
MEDIUM DENSE, BROWN, GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, PETROL ODOR, DAMP - 6-inch layer of silty clay at 2.5 feet	1114.5	1																
MEDIUM STIFF TO STIFF, GRAY, CLAY, SOME SILT, SOME SAND, TRACE GRAVEL, MOIST	1113.0	2	8	16	SS-1	23	25	22	8	14	14	NP	7	7	A-2-4 (0)	<100		
	1111.5	3	2	7	SS-2	3	10	23	27	37	45	18	27	23	A-7-6 (13)	<100		
	1111.5	4	2	3														

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID													
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-016-0-21													
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1110.0 (MSL) EOB: 4.5 ft.	PAGE													
START: 5/28/21 END: 5/28/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743568, -84.793010	1 OF 1													
MATERIAL DESCRIPTION AND NOTES																	
ASPHALT: 11 INCHES BASE: 7 INCHES	ELEV. 1110.0	DEPTHS	SPT/ RQD	REC (%)	HP ID	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
VERY LOOSE, BROWN, SILT AND CLAY, AND SAND, TRACE GRAVEL, MOIST	1108.5	1		100	BASE-1	34	21	24	15	6	-	-	-	-	A-1-b (V)	-	
MEDIUM STIFF, GRAY, CLAY, AND SAND, SOME SILT, TRACE GRAVEL, MOIST	1107.0	2	3	4	SS-1	10	17	25	28	20	26	14	12	22	A-6a (3)	<100	
	1105.5	3	2	6	SS-2	5	11	25	26	33	44	15	29	25	A-7-6 (13)	<100	
	1105.5	4	2	2													

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGLON\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\KJM\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-017-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1119.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743544, -84.791587	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9.75 INCHES BASE: 9.75 INCHES	ELEV. 1119.0	SPT/ROD DEPTHS	GRADATION (%)	ATTERBERG
			GR CS FS SI	LL PL PI WC
		1		
LOOSE, GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, (SAND LENSE BELOW AGGREGATE BASE), MOIST	1117.4	2	3 6 16 51	24 32 19 13 24
		3		
STIFF, BROWN, SILTY CLAY, SOME SAND, TRACE GRAVEL, MOIST	1116.0	2		
		2		
		3		
	1114.5	4		
EOB				

SO4 ppm	<100
BACK FILL	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-018-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1123.0 (MSL) EOB: 4.5 ft.	PAGE
START: 5/28/21 END: 5/28/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743574, -84.790172	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9.5 INCHES BASE: 10.5 INCHES	ELEV. 1123.0	SPT/ROD DEPTHS	GRADATION (%)	ATTERBERG
			GR CS FS SI	LL PL PI WC
		1		
MEDIUM STIFF, GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST	1121.3	2	4 7 19 46	24 30 18 12 26
		5		
STIFF, BROWN, CLAY, AND SILT, LITTLE SAND, MOIST	1120.0	2		
		3		
	1118.5	4		
EOB				

SO4 ppm	<100
BACK FILL	

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGLON\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\KJM\PROJECT

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PRE-35/122-12.90/0

MODEL: SHEET 10 PAPER: SIZE: I:\xll (in.) DATE: 9/7/2021 TIME: 10:07:46 AM USER: k.jmankin
 C:\Users\k.jmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\1215084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT GDT - 9/12/13 02 - C:\USERS\BML\ANGL\OJSIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\IN\PROJ.C

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-019-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1132.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743549, -84.788754	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11.5 INCHES BASE: 2.5 INCHES	ELEV. 1132.0	GRADATION (%)	ATTERBERG	ODOT CLASS (GI)
STIFF, BROWN TO GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL, MOIST	1130.8	GR CS FS SI CL	LL PL PI	WC
STIFF TO VERY STIFF, BROWN, CLAY, SOME SILT, SOME SAND, TRACE GRAVEL, DAMP	1129.0	GR CS FS SI CL	LL PL PI	WC
	1127.5 EOB	GR CS FS SI CL	LL PL PI	WC

DEPTH SPT/ RQD

REC SAMPLE ID

N₆₀ (%)

HP (tsf)

GR CS FS SI CL

LL PL PI

WC

SO4 ppm

BACK FILL

1

2

3

4

2

9

89

SS-1

2.00

9

10

22

31

28

14

10

18

A-4a (5)

<100

2

4

89

SS-2

2.00

3

6

17

32

42

41

20

21

18

A-7-6 (12)

110

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT GDT - 9/12/13 02 - C:\USERS\BML\ANGL\OJSIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\IN\PROJ.C

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-020-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1138.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743579, -84.787347	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 8.5 INCHES BASE: 6.5 INCHES	ELEV. 1138.0	GRADATION (%)	ATTERBERG	ODOT CLASS (GI)
STIFF BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, MOIST	1136.8	GR CS FS SI CL	LL PL PI	WC
VERY STIFF, BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, DAMP	1135.0	GR CS FS SI CL	LL PL PI	WC
	1133.5 EOB	GR CS FS SI CL	LL PL PI	WC

DEPTH SPT/ RQD

REC SAMPLE ID

N₆₀ (%)

HP (tsf)

GR CS FS SI CL

LL PL PI

WC

SO4 ppm

BACK FILL

1

2

3

5

12

94

SS-1

2.00

14

9

21

33

23

14

10

15

A-4a (4)

160

4

8

100

SS-2

3.50

12

20

36

20

19

14

5

10

A-4a (4)

<100

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

SOIL PROFILE
BORING LOGS B-019-0-21 AND B-020-0-21

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID: B-021-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	
PID: 100558 SFN: 6/10/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1167.0 (MSL) EOB: 4.5 ft.	PAGE: 1 OF 1
START: 5/28/21 END: 5/28/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743555, -84.785933	BACK FILL: 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	SPT/ROD	DEPTHS	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					SO4 ppm									
							GR	CS	FS	SI	CL		LL	PL	PI	W/C	ODOT CLASS (G)				
ASPHALT: 10.5 INCHES BASE: 6.5 INCHES	1167.0	-	-	100	BASE-1	-	40	19	18	5	-	-	-	-	-	-	-	-	-	A-1-b (V)	-
STIFF TO VERY STIFF, BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, DAMP TO MOIST	1165.6	6	2	9	56	SS-1	4.00	11	9	21	37	22	14	8	8					A-4a (5)	240
		6	5	19	78	SS-2	2.00	15	12	21	31	21	12	9	13					A-4a (3)	<100
		4	8	EOB	1162.5																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH-AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:02 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID: B-022-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	
PID: 100558 SFN: 6/10/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1161.0 (MSL) EOB: 4.5 ft.	PAGE: 1 OF 1
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743575, -84.784538	BACK FILL: 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	SPT/ROD	DEPTHS	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					SO4 ppm									
							GR	CS	FS	SI	CL		LL	PL	PI	W/C	ODOT CLASS (G)				
ASPHALT: 13 INCHES BASE: 7 INCHES	1161.0	-	-	-	-	-															
SOFT TO MEDIUM STIFF, GRAY TO BROWN, SILT, SOME SAND, LITTLE CLAY, TRACE GRAVEL, WET	1159.3	4	1	4	89	SS-1A	0.50	5	6	19	52	18	22	6	20					A-4b (7)	<100
		2	2	6	94	SS-2	1.00	0	4	12	41	43	20	22	31					A-7-6 (13)	<100
		2	2	EOB	1156.5																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH-AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PRE-35/122-12.90/0

MODEL: SHEET 12 PAPER: SIZE: T:\xli (in.) DATE: 9/7/2021 TIME: 10:09:02 AM USER: k.jmanckin
 C:\Users\k.jmanckin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\1215084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/11/21 13:02 - C:\USERS\BML\ANGLO\SIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-023-0-21
PID: 100558 SFN: 6/10/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1134.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743541, -84.783124	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11.25 INCHES BASE: 6.75 INCHES	ELEV. 1134.0	REC SAMPLE ID	GRADATION (%)	ATTERBERG
MEDIUM STIFF TO STIFF, BROWN TO GRAY, SILT, SOME CLAY, SOME SAND, TRACE GRAVEL, DAMP	DEPTHS 1	N ₆₀	GR CS FS SI CL	LL PL PI WC ODOT CLASS (g) SO4 ppm
SOFT TO MEDIUM STIFF, BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL, WET	2	6	8 13 51 24	17 10 15 A-4b (8) <100
	3	4	10 19 36 22	25 15 10 A-4a (5) <100
	4	1	10 19 36 22	25 15 10 A-4a (5) <100
	EOB	2		

BACK FILL

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/11/21 13:03 - C:\USERS\BML\ANGLO\SIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-024-0-21
PID: 100558 SFN: 5/28/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1132.0 (MSL) EOB: 4.5 ft.	PAGE
START: 5/28/21 END: 5/28/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743563, -84.781717	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 8.75 INCHES BASE: 9.25 INCHES	ELEV. 1132.0	REC SAMPLE ID	GRADATION (%)	ATTERBERG
VERY STIFF, BROWN, SANDY SILT, TRACE CLAY, LITTLE GRAVEL, DAMP	DEPTHS 1	100	13 10 8 1	- - A-1-a (V) -
MEDIUM STIFF, GRAY, SILT AND CLAY, AND SAND, TRACE GRAVEL, THIN PEAT LENSE, MOIST	2	20	22 21 29 8	15 13 2 11 A-4a (0) 110
	3	4	6 30 38 19	31 20 11 24 A-6a (5) <100
	4	6	6 30 38 19	31 20 11 24 A-6a (5) <100
	EOB	2		

BACK FILL

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

SOIL PROFILE
BORING LOGS B-023-0-21 AND B-024-0-21

PRE-35/122-12.90/0

MODEL: SHEET I3 PAPER:SIZE: Txlil (in.) DATE: 9/7/2021 TIME: 10:09:36 AM USER: k.jimankin C:\Users\k.jimankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID B-025-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 - SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1147.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743531, -84.780296	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11.25 INCHES BASE: 9.25 INCHES	ELEV. 1147.0	DEPTHS	GRADATION (%)	ATTERBERG
			GR CS FS SI CL LL PL PI WC	ODOT CLASS (GI)
			HP (tsf) ID	
			REC (%)	
			N ₆₀	
MEDIUM STIFF TO STIFF, BROWN TO GRAY, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, WET	1145.3	1	3 2 2	
			6	14 51 27 28 17 11 27
			89	A-6a (8)
STIFF, BROWN, SILTY CLAY, AND SAND, TRACE GRAVEL, MOIST	1144.0	3	1 3	
			7	35 21 32 34 17 17 23
			89	A-6b (6)
- 6 inch sand layer at 4 feet	1142.5	4	2	

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID B-026-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 - SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1148.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743558, -84.778883	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10 INCHES BASE: 7 INCHES	ELEV. 1148.0	DEPTHS	GRADATION (%)	ATTERBERG
			GR CS FS SI CL LL PL PI WC	ODOT CLASS (GI)
			HP (tsf) ID	
			REC (%)	
			N ₆₀	
MEDIUM STIFF, BROWN, SILT, SOME CLAY, LITTLE SAND, TRACE GRAVEL, (VERY STIFF UPPER 6 INCHES), WET	1146.6	1		
			3 2 2	
			6	11 60 25 26 17 9 27
			94	A-4b (8)
MEDIUM STIFF TO STIFF, BROWN, CLAY, SOME SILT, SOME SAND, TRACE GRAVEL, MOIST	1145.0	3	1 3	
			7	19 34 35 45 18 27 28
			94	A-7-6 (14)
			2	<100

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

DESIGN AGENCY



DESIGNER

BML

REVIEWER

JDD 09-07-21

PROJECT ID

100558

SHEET

39

TOTAL

81

SOIL PROFILE
BORING LOGS B-025-0-21 AND B-026-0-21

PRE-35/122-12.90/0

MODEL: SHEET 14 PAPER: SIZE: T:\xli (in.) DATE: 9/7/2021 TIME: 10:04:02 AM USER: k.jimankin
 C:\Users\k.jimankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\215084\BORING LOG SHEETS.dgn

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID: B-027-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1153.0 (MSL) EOB: 4.5 ft.	PAGE: 1 OF 1
START: 6/1/21 END: 6/1/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743530, -84.777471	
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9.5 INCHES BASE: 10.5 INCHES	ELEV.: 1153.0	REC (%): 100	GRADATION (%): GR CS FS SI CL LL PL PI WC	SO4 ppm
MEDIUM STIFF TO STIFF, GRAY, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, MOIST - transition to silty clay (A-6b) at 2.5 feet	1151.3	72	46 22 16 13 3 - - - -	A-2-4 (V)
MEDIUM STIFF, BROWN TO GRAY, SILTY CLAY, SOME SAND, TRACE GRAVEL, MOIST	1150.0	89	10 18 22 35 15 23 15 8	A-4a (3)
	1148.5	89	7 10 24 29 30 36 16 20	A-6b (9)
EOB				

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:03 - C:\USERS\BML\ANGLAIS\ONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID: B-028-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1156.0 (MSL) EOB: 4.5 ft.	PAGE: 1 OF 1
START: 6/10/21 END: 6/11/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743551, -84.776051	
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11 INCHES BASE: 9 INCHES	ELEV.: 1156.0	REC (%): 67	GRADATION (%): GR CS FS SI CL LL PL PI WC	SO4 ppm
MEDIUM DENSE, BROWN, COARSE AND FINE SAND, SOME SILT, LITTLE GRAVEL, TRACE CLAY, WET	1154.3	6	18 27 23 22 10 18 13 5	A-3a (0)
SOFT TO MEDIUM STIFF, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST	1153.0	89	8 10 19 33 30 29 15 14	A-6a (7)
	1151.5	89	2 1 2	<100
EOB				

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/1/21 13:03 - C:\USERS\BML\ANGLAIS\ONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	B-031-0-21
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1178.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/11/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743520, -84.771793	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11.75 INCHES BASE: 5.25 INCHES	ELEV.: 1178.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (GI)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO4 ppm
MEDIUM STIFF TO STIFF, BROWN TO GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL, MOIST - 6 inch lens of A-2.6 at 2 feet	DEPTHS 1	7	16 21 36 21 24 15 9 19	A-4a (4)
	2	3		
1175.0	3	9		
	4	3		
1173.5	4	3		
EOB				

BACK FILL

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	B-032-0-21
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1180.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/11/21 END: 6/10/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743549, -84.770354	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9.5 INCHES BASE: 9.5 INCHES	ELEV.: 1180.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (GI)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO4 ppm
STIFF TO VERY STIFF, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, DAMP - transition to A-7-6 at 2.5 feet	DEPTHS 1	7	7 19 43 28 30 15 15 15	A-6a (9)
	2	3		
1177.0	3	12		
	4	4		
1175.5	4	4		
EOB				

BACK FILL

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT GDT - 9/1/21 13:03 - C:\USERS\BML\ANGLON\DRIVE - TERRACON CONSULTANTS\INCL\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	STATION / OFFSET: _____	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	ALIGNMENT: _____	B-035-0-21
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	ELEVATION: 1169.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/10/21 END: 6/10/21	SAMPLING METHOD: SPT	LAT / LONG: 39.743525, -84.766142	1 OF 1
MATERIAL DESCRIPTION AND NOTES			
ASPHALT: 10 INCHES BASE: 8 INCHES	ELEV. 1169.0	GRADATION (%)	SO4 ppm
MEDIUM STIFF TO STIFF, GRAY TO MOTTLED BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, DAMP	1167.5	GR CS FS SI CL LL PL PI WC	ODOT CLASS (G)
- very soft, wet from 4 to 4.5 feet	1164.5 EOB	REC SAMPLE ID	A-6a (8)
		N ₆₀ (%)	A-6a (6)
		SPT/ROD DEPTHS	<100
		1	
		2	
		3	
		4	

NOTES: NONE												
ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS												

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT GDT - 9/1/21 13:03 - C:\USERS\BML\ANGLON\DRIVE - TERRACON CONSULTANTS\INCL\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	STATION / OFFSET: _____	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	ALIGNMENT: _____	B-036-0-21
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	ELEVATION: 1152.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/1/21 END: 6/1/21	SAMPLING METHOD: SPT	LAT / LONG: 39.743557, -84.764721	1 OF 1
MATERIAL DESCRIPTION AND NOTES			
ASPHALT: 9.5 INCHES BASE: 9.5 INCHES	ELEV. 1152.0	GRADATION (%)	SO4 ppm
MEDIUM STIFF TO STIFF, GRAY TO BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, DAMP - thin peat lense at 2.5 feet	1150.4	GR CS FS SI CL LL PL PI WC	ODOT CLASS (G)
MEDIUM STIFF TO STIFF, BROWN, SILTY CLAY, TRACE SAND, MOIST	1149.0	REC SAMPLE ID	A-1-b (V)
	1147.5 EOB	N ₆₀ (%)	A-4a (4)
		SPT/ROD DEPTHS	A-6b (12)
		1	
		2	
		3	
		4	

NOTES: NONE												
ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS												

PRE-35/122-12.90/0

MODEL: SHEET 20 PAPER: 20 PERSIZE: 17x11 (in.) DATE: 9/7/2021 TIME: 10:45:01 AM USER: k.jmankin
 C:\Users\k.jmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (6 5 X 11) - OH DOT.GDT - 9/1/21 13:03 - C:\USERS\BML\ANGLOISE\NEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-039-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1133.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/4/21 END: 6/4/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743528, -84.760455	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10 INCHES BASE: 9.5 INCHES	ELEV. 1133.0	REC N ₆₀ (%)	GRADATION (%)	ODOT CLASS (G)
	DEPTHS		GR CS FS SI CL LL PL PI WC	SO4 ppm
	1			
MEDIUM STIFF, GRAY, SILTY CLAY, SOME SAND, TRACE GRAVEL, PETROL ODOR, DAMP	1131.4	6 44	6 11 17 41 25 33 16 17 9	A-6b (9) <100
	2 3			
MEDIUM STIFF, MOTTLED BROWN TO GRAY, CLAY, AND SILT, LITTLE SAND, TRACE GRAVEL, MOIST	1130.0	7 72	5 11 40 41 42 17 25 31	A-7-6 (14) <100
	3 1 2 3			
	4			
	1128.5 EOB			

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (6 5 X 11) - OH DOT.GDT - 9/1/21 13:03 - C:\USERS\BML\ANGLOISE\NEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-040-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1132.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/4/21 END: 6/4/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743567, -84.759028	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11 INCHES BASE: 8 INCHES	ELEV. 1132.0	REC N ₆₀ (%)	GRADATION (%)	ODOT CLASS (G)
	DEPTHS		GR CS FS SI CL LL PL PI WC	SO4 ppm
	1			
MEDIUM STIFF, VARVED BROWN TO GRAY, SILT, SOME CLAY, LITTLE SAND, TRACE GRAVEL, WET - transition to A-7-6 at 2.5 feet	1130.4	6 94	3 11 56 29 26 17 9 27	A-4b (8) <100
	2 2 2			
SOFT, VARVED GRAY WITH BROWN, CLAY, LITTLE SILT, LITTLE SAND, TRACE GRAVEL, MOIST	1129.0	4 89	4 12 63 19 42 18 24 28	A-7-6 (14) <100
	2 1 2			
	4			
	1127.5 EOB			

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PRE-35/122-12.90/0

MODEL: SHEET 22 PAPER SIZE: ITX(11 in.) DATE: 9/8/2021 TIME: 8:27:53 AM USER: kjmankin
 C:\Users\kjmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT GDT - 9/7/21 16:08 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID: B-043-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1135.0 (MSL) EOB: 4.5 ft.	PAGE: 1 OF 1
START: 6/4/21 END: 6/4/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743532, -84.754768	
MATERIAL DESCRIPTION AND NOTES	ELEV.	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
ASPHALT: 10 INCHES BASE: 7 INCHES	1135.0			
MEDIUM STIFF TO STIFF BROWN TO GRAY SANDY SILT, SOME CLAY, TRACE GRAVEL, PETROL ODOR (UPPER 3 FEET), MOIST TO DAMP	1133.6	SS-1	8 17 45 24 16 8	A-4a (7) 140
		SS-2	10 12 23 35 20 19 13 6	A-4a (4) <100
	1130.5 EOB			

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT GDT - 9/7/21 16:08 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID: B-044-0-21
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1135.0 (MSL) EOB: 4.5 ft.	PAGE: 1 OF 1
START: 6/4/21 END: 6/4/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743560, -84.753363	
MATERIAL DESCRIPTION AND NOTES	ELEV.	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
ASPHALT: 10.75 INCHES BASE: 4.75 INCHES	1135.0			
MEDIUM STIFF TO STIFF BROWN TO GRAY SILT, SOME CLAY, LITTLE SAND, TRACE GRAVEL, PETROL ODOR, DAMP	1133.7	BASE-1	2 0	A-1-a (V) -
		SS-1	4 13 51 31 26 18 8	A-4b (8) <100
STIFF, BROWN TO GRAY, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, MOIST	1132.0	SS-2	3 10 51 35 40 17 23 28	A-6b (13) <100
	1130.5 EOB			

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

SOIL PROFILE
BORING LOGS B-043-0-21 AND B-044-0-21

PRE-35/122-12.90/0

MODEL: SHEET 23 PAPER SIZE: 17x11 (in.) DATE: 9/8/2021 TIME: 8:28:43 AM USER: k.jmankin
 C:\Users\k.jmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 9/7/21 16:08 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\MPROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-045-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1133.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/7/21 END: 6/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743538, -84.751936	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 11.5 INCHES BASE: 5.75 INCHES	ELEV. 1133.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
MEDIUM STIFF TO STIFF, GRAY, SILT, SOME CLAY, LITTLE SAND, TRACE GRAVEL, MOIST	DEPTHS 1	N ₆₀ (%)	GR CS FS SI CL	WC
MEDIUM STIFF, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, DAMP	2	6	1 5 10 56 28 27 18 9	23
	3	7	3 6 18 40 33 28 15 13	15
	4	3		
	EOB			

1128.5

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (6.5 X 11) - OH DOT.GDT - 9/7/21 16:08 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\MPROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-046-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1122.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/7/21 END: 6/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743574, -84.750496	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 10 INCHES BASE: 8.75 INCHES	ELEV. 1122.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
MEDIUM STIFF TO STIFF, GRAY, SILT, SOME CLAY, LITTLE SAND, TRACE GRAVEL, DAMP	DEPTHS 1	N ₆₀ (%)	GR CS FS SI CL	WC
MEDIUM STIFF TO STIFF, GRAY TO BROWN, SILTY CLAY, SOME SAND, TRACE GRAVEL, MOIST	2	7	1 3 12 62 22 26 17 9	14
	3	100	1 6 16 36 41 40 17 23	25
	4	3		
	EOB			

1117.5

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

SOIL PROFILE
BORING LOGS B-045-0-21 AND B-046-0-21

PRE-35/122-12.90/0

MODEL: SHEET 24 PAPER SIZE: 17x11 (in.) DATE: 9/8/2021 TIME: 8:29:24 AM USER: kjmankin
 C:\Users\kjmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-047-0-21
PID: 100558 SFN: 6/7/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1106.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/7/21 END: 6/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743548, -84.749081	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9 INCHES BASE: 9 INCHES	ELEV. 1106.0	REC (%)	GRADATION (%)	ODOT CLASS (GI)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO ₄ ppm
				BACK FILL
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST	1104.5	100	43 23 16 4 14 - - -	- A-1-b (V)
		33	5 14 21 38 22 - - -	A-6a (V)
MEDIUM STIFF, BROWN, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, MOIST	1103.0	94	4 12 47 33 37 21 16 26	A-6b (10)
	1101.5 EOB	6		

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-048-0-21
PID: 100558 SFN: 6/7/21	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1106.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/7/21 END: 6/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743572, -84.747670	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9.5 INCHES BASE: 8 INCHES	ELEV. 1106.0	REC (%)	GRADATION (%)	ODOT CLASS (GI)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO ₄ ppm
				BACK FILL
STIFF TO VERY STIFF, GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST	1104.5	78	9 23 47 18 22 11 11 14	A-6a (6)
		89	3 6 20 29 42 36 17 19 21	A-6b (11)
MEDIUM STIFF TO STIFF, GRAY TO BROWN, SILTY CLAY, LITTLE SAND, TRACE GRAVEL, MOIST	1103.0	6		
	1101.5 EOB	2		

NOTES: NONE
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

SOIL PROFILE
 BORING LOGS B-047-0-21 AND B-048-0-21

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/7/21 16:08 - C:\USERS\BML\ANGLAIS\ONEDRIVE - TERRACON CONSULTANTS\CONCEPT\TEMP OFFLINE WORK\INPROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-049-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1102.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/7/21 END: 6/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG:	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT, 9.25 INCHES BASE: 9.25 INCHES	ELEV.: 1102.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO4 ppm
STIFF TO VERY STIFF, GRAY TO BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL, MOIST	1100.5	12	10 25 36 21 20 12 8 13	A-4a (4)
	1099.0	83	8	
STIFF TO VERY STIFF, GRAY TO BROWN, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, DAMP	1097.5	12	12 12 12 12 12 7 10	A-4a (3)
		89		<100

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/7/21 16:09 - C:\USERS\BML\ANGLAIS\ONEDRIVE - TERRACON CONSULTANTS\CONCEPT\TEMP OFFLINE WORK\INPROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-050-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1096.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/7/21 END: 6/7/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG:	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT, 7.25 INCHES BASE: 8.75 INCHES	ELEV.: 1096.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO4 ppm
STIFF TO VERY STIFF, BROWN TO GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, PETROL ODOR, DAMP	1094.7	100	80 8 5 6 1 - - -	A-1-a (V)
	1093.0	10	7	
VERY STIFF TO HARD, BROWN TO GRAY, SANDY SILT, SOME CLAY, LITTLE GRAVEL, DAMP - medium stiff from 3 to 3.5 feet	1091.5	89	7 22 37 27 26 15 11 14	A-6a (6)
		89	12 11 21 34 22 21 13 8 9	A-4a (4)

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PRE-35/122-12.90/0

MODEL: SHEET 26 PAPER SIZE: 17x11 (in.) DATE: 9/7/2021 TIME: 10:48:29 AM USER: k.jmankin
 C:\Users\kjmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\1215084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT GDT - 9/11/21 13:03 - C:\Users\BML\ANGLO\IONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\INPROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID													
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	B-051-0-21													
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1101.0 (MSL) EOB: 4.5 ft.	PAGE													
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743565, -84.743525	1 OF 1													
MATERIAL DESCRIPTION AND NOTES		GRADATION (%)		ATTERBERG		ODOT CLASS (GI)		BACK FILL									
ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	SO4 ppm	
1101.0	1	-	-	-	-	-											
1099.5	2	4	10	22	SS-1	4.50	8	10	14	49	19	-	-	-	16	A-4a (V)	<100
1098.0	3	2	7	89	SS-2	1.00	1	1	3	52	43	54	20	34	31	A-7-6 (19)	<100
1096.5	4	-	-	-	-	-											
ASPHALT: 9.5 INCHES BASE: 8.5 INCHES		EOB															

STIFF TO VERY STIFF, BROWN TO GRAY, SANDY SILT, LITTLE CLAY, TRACE GRAVEL, DAMP

MEDIUM STIFF, BROWN, CLAY, AND SILT, TRACE SAND, TRACE GRAVEL, MOIST

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT GDT - 9/11/21 13:03 - C:\Users\BML\ANGLO\IONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORK\INPROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET: _____	EXPLORATION ID													
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: _____	B-052-0-21													
PID: 100558 SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1100.0 (MSL) EOB: 4.5 ft.	PAGE													
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743592, -84.742107	1 OF 1													
MATERIAL DESCRIPTION AND NOTES		GRADATION (%)		ATTERBERG		ODOT CLASS (GI)		BACK FILL									
ELEV.	DEPTHS	SPT/ RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	SO4 ppm	
1100.0	1	-	-	-	-	-											
1098.3	2	3	9	33	SS-1	4.00	2	5	8	59	26	26	18	8	19	A-4b (8)	100
1097.0	3	3	17	22	SS-2	2.00	1	3	6	56	34	45	20	25	27	A-7-6 (15)	<100
1095.5	4	-	-	-	-	-											
ASPHALT: 9.75 INCHES BASE: 10.25 INCHES		EOB															

STIFF TO VERY STIFF, BROWN TO GRAY, SILT, SOME CLAY, LITTLE SAND TRACE GRAVEL, MOIST

STIFF TO VERY STIFF, BROWN, CLAY, AND SILT, LITTLE SAND, TRACE GRAVEL, MOIST

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH, AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/7/21 16:09 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID					
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-053-0-21					
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1089.0 (MSL) EOB: 4.5 ft.	PAGE					
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743559, -84.740683	1 OF 1					
MATERIAL DESCRIPTION AND NOTES									
ELEV.	DEPTHS	SPT/ RQD	REC SAMPLE ID	GRADATION (%)	ATTERBERG	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
1089.0									
1087.5	1		100 BASE-1	52 15 14 6					
1086.0	2	6	56 SS-1	6 6 6 6	13				
	3	5							
	4	4							
1084.5	4	2	89 SS-2	2 6 6 6	19 49 24 27	15 12			

EOB

BACK FILL

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG W/ SULFATES (8.5 X 11) - OH DOT.GDT - 9/7/21 16:09 - C:\USERS\BML\ANGLO\ISIONEDRIVE - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING\PROJEC

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID					
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-054-0-21					
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1088.0 (MSL) EOB: 4.5 ft.	PAGE					
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743584, -84.739270	1 OF 1					
MATERIAL DESCRIPTION AND NOTES									
ELEV.	DEPTHS	SPT/ RQD	REC SAMPLE ID	GRADATION (%)	ATTERBERG	WC	ODOT CLASS (GI)	SO4 ppm	BACK FILL
1088.0									
1086.8	1								
1085.0	2	5	72 SS-1	12 6 6 6	16 48 18 23	16 7			
	3	4							
	4	2	50 SS-2	2 3 9	22 62 11 23	18 5			

EOB

BACK FILL

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

PRE-35/122-12.90/0

MODEL: SHEET 28 PAPER SIZE: 17x11 (in.) DATE: 9/8/2021 TIME: 8:32:49 AM USER: k.jmankin
 C:\Users\k.jmankin\OneDrive - Terracon Consultants Inc\Desktop\DRAWINGS\125084\BORING LOG SHEETS.dgn

STANDARD ODOT LOG WORKING PROJECT - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-055-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1084.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743549, -84.737858	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 8 INCHES BASE: 9.5 INCHES	ELEV. 1084.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO4 ppm
MEDIUM STIFF TO STIFF BROWN SILTY CLAY, LITTLE SAND, TRACE GRAVEL, DAMP	1082.5	78	5 13 45 35 36 19 17	<100
VERY SOFT TO SOFT, BROWN TO GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL, WET	1081.0	89	11 24 34 25 26 15 11	<100
	1079.5			
	EOB			

DEPTH SPT/RQD

1 2 3 4

2 3 2

2 3 2

4

EOB

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

STANDARD ODOT LOG WORKING PROJECT - TERRACON CONSULTANTS INC\DESKTOP\TEMP OFFLINE WORKING PROJECT

PROJECT: PRE-35/122-12.90/0	DRILLING FIRM / OPERATOR: TERRACON / CK	DRILL RIG: CME 55LCX	STATION / OFFSET:	EXPLORATION ID
TYPE: SUBGRADE	SAMPLING FIRM / LOGGER: TERRACON / TS	HAMMER: AUTOMATIC HAMMER	ALIGNMENT:	B-056-0-21
PID: 100558 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 10/30/19	ELEVATION: 1082.0 (MSL) EOB: 4.5 ft.	PAGE
START: 6/8/21 END: 6/8/21	SAMPLING METHOD: SPT	ENERGY RATIO (%): 86.6	LAT / LONG: 39.743578, -84.736438	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
ASPHALT: 9 INCHES BASE: 9.5 INCHES	ELEV. 1082.0	REC SAMPLE ID	GRADATION (%)	ODOT CLASS (G)
		N ₆₀	GR CS FS SI CL LL PL PI WC	SO4 ppm
STIFF BROWN TO GRAY, SANDY SILT, LITTLE CLAY, LITTLE GRAVEL, DAMP	1080.5	61	10 16 42 20 24 16 8	<100
STIFF BROWN TO GRAY, SILTY CLAY, AND SILT, TRACE SAND, TRACE GRAVEL, MOIST	1079.0	89	2 5 44 48 38 20 21	<100
	1077.5			
	EOB			

DEPTH SPT/RQD

1 2 3 4

5 4 3

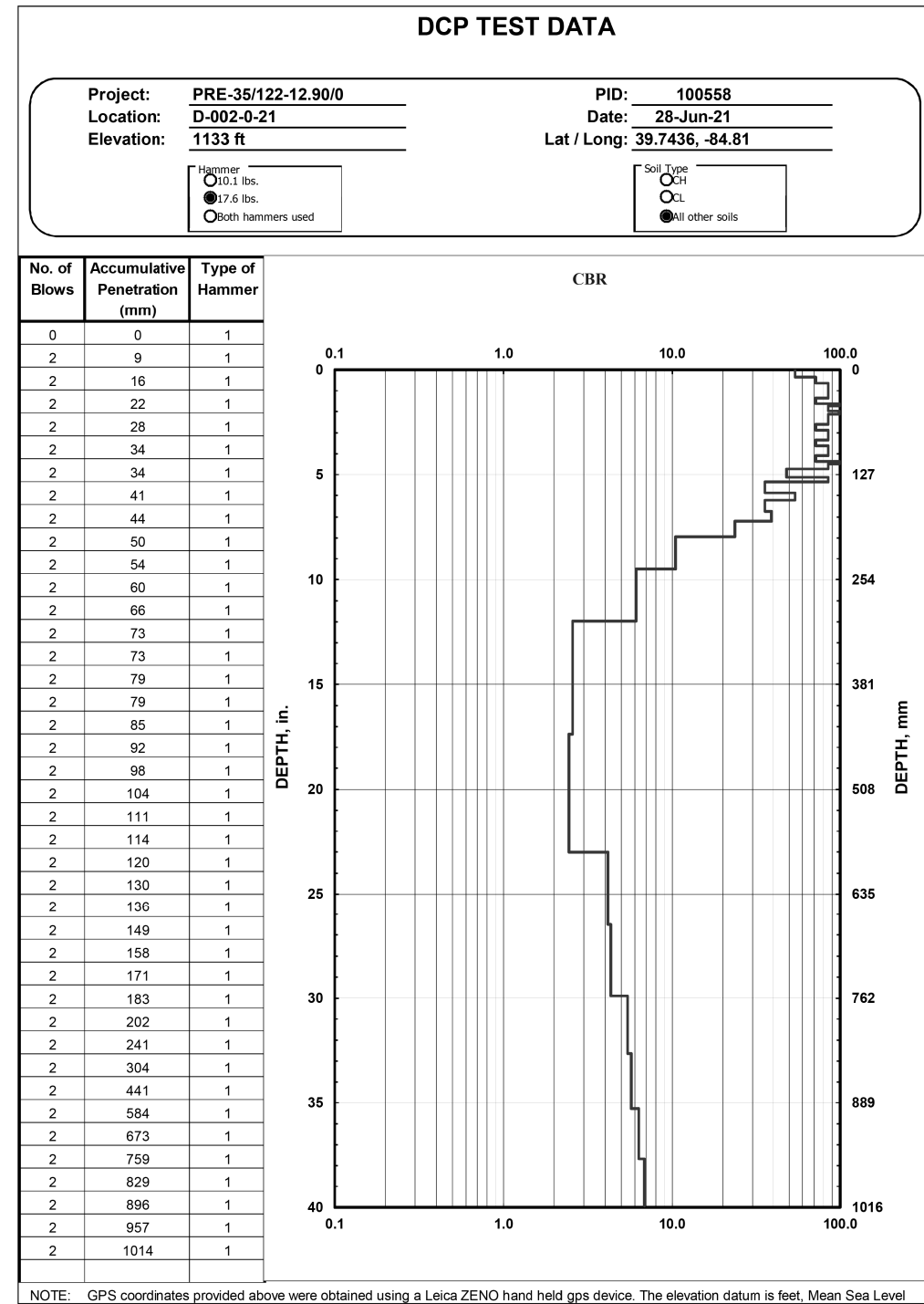
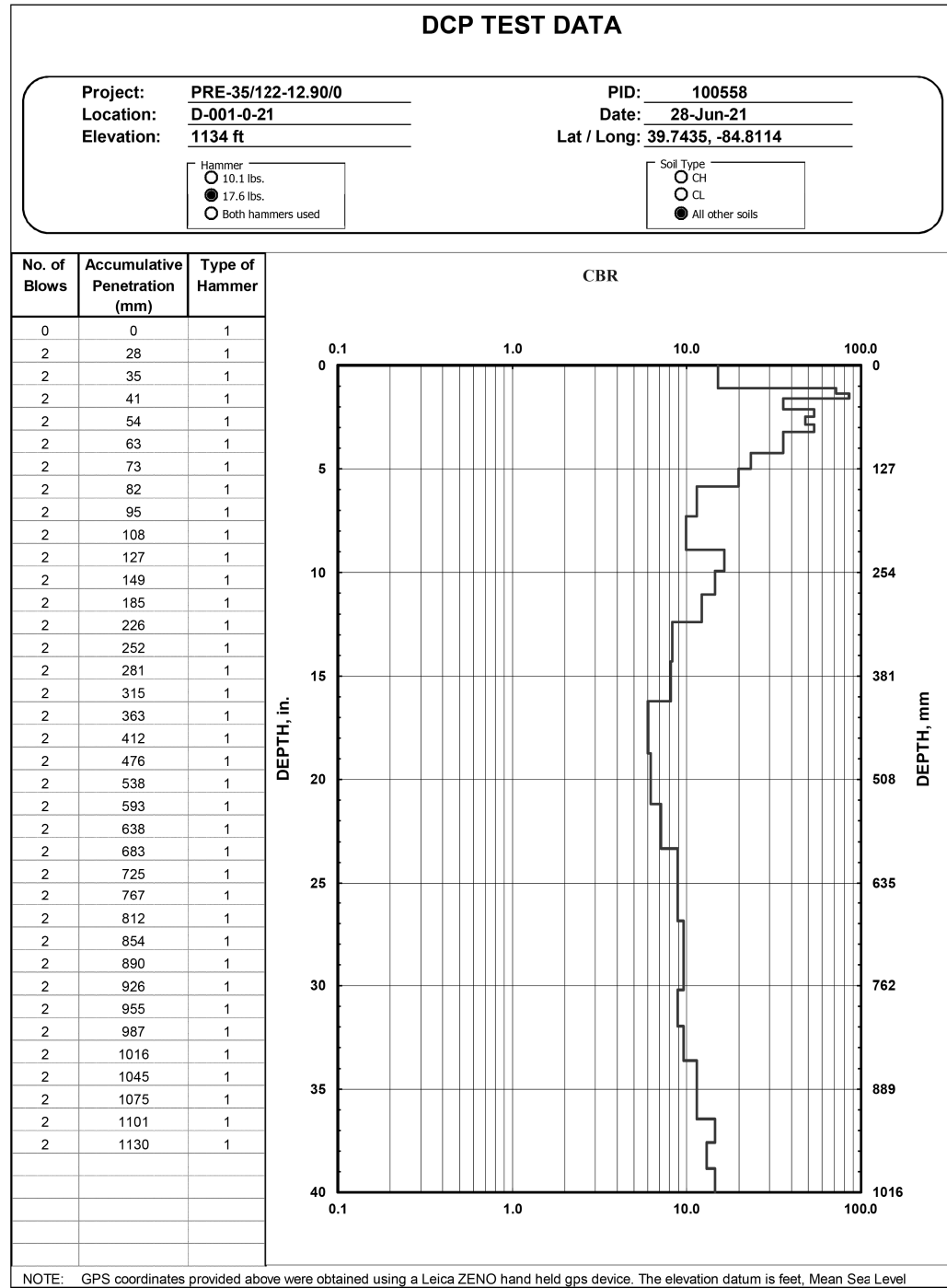
3 4 5

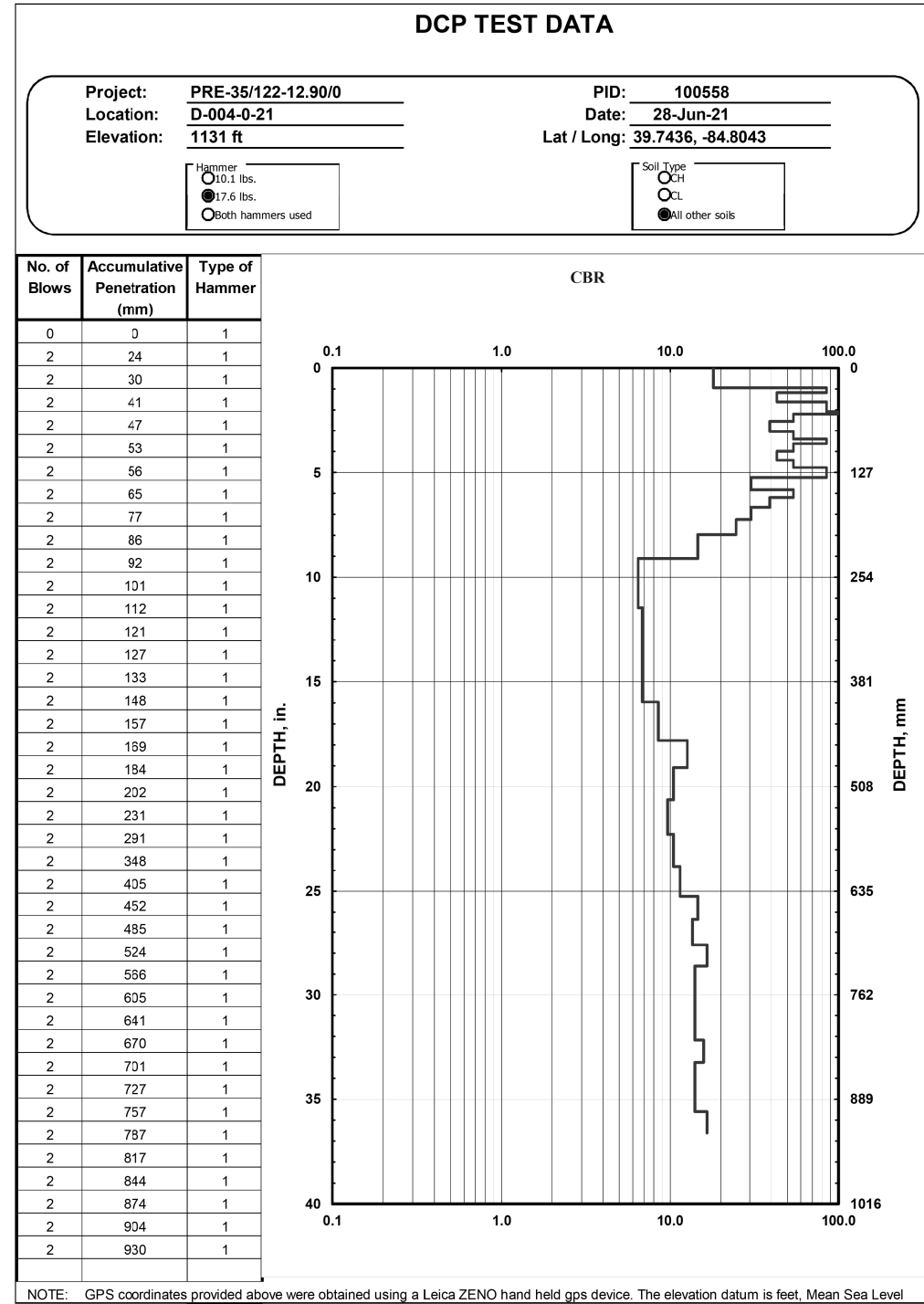
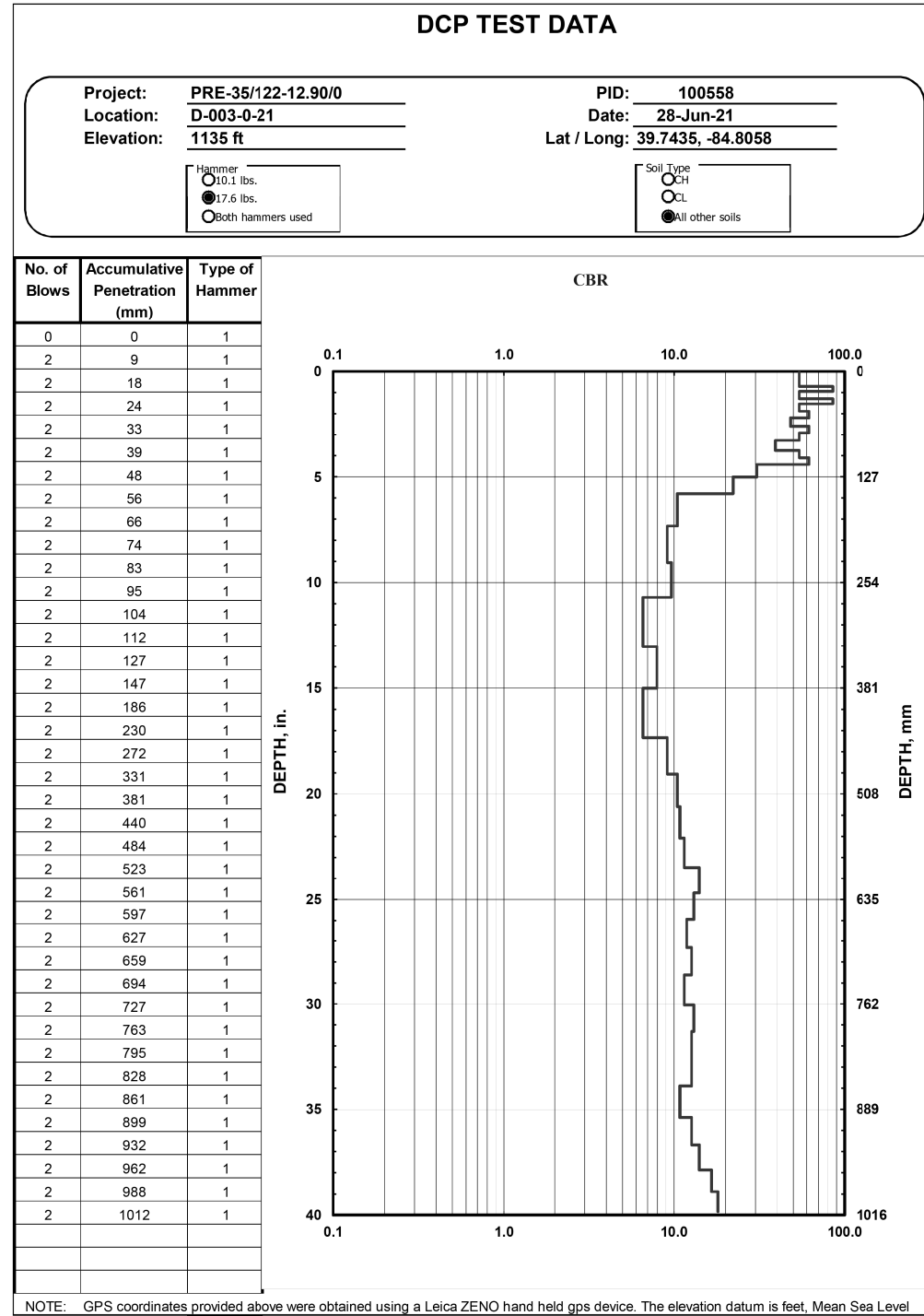
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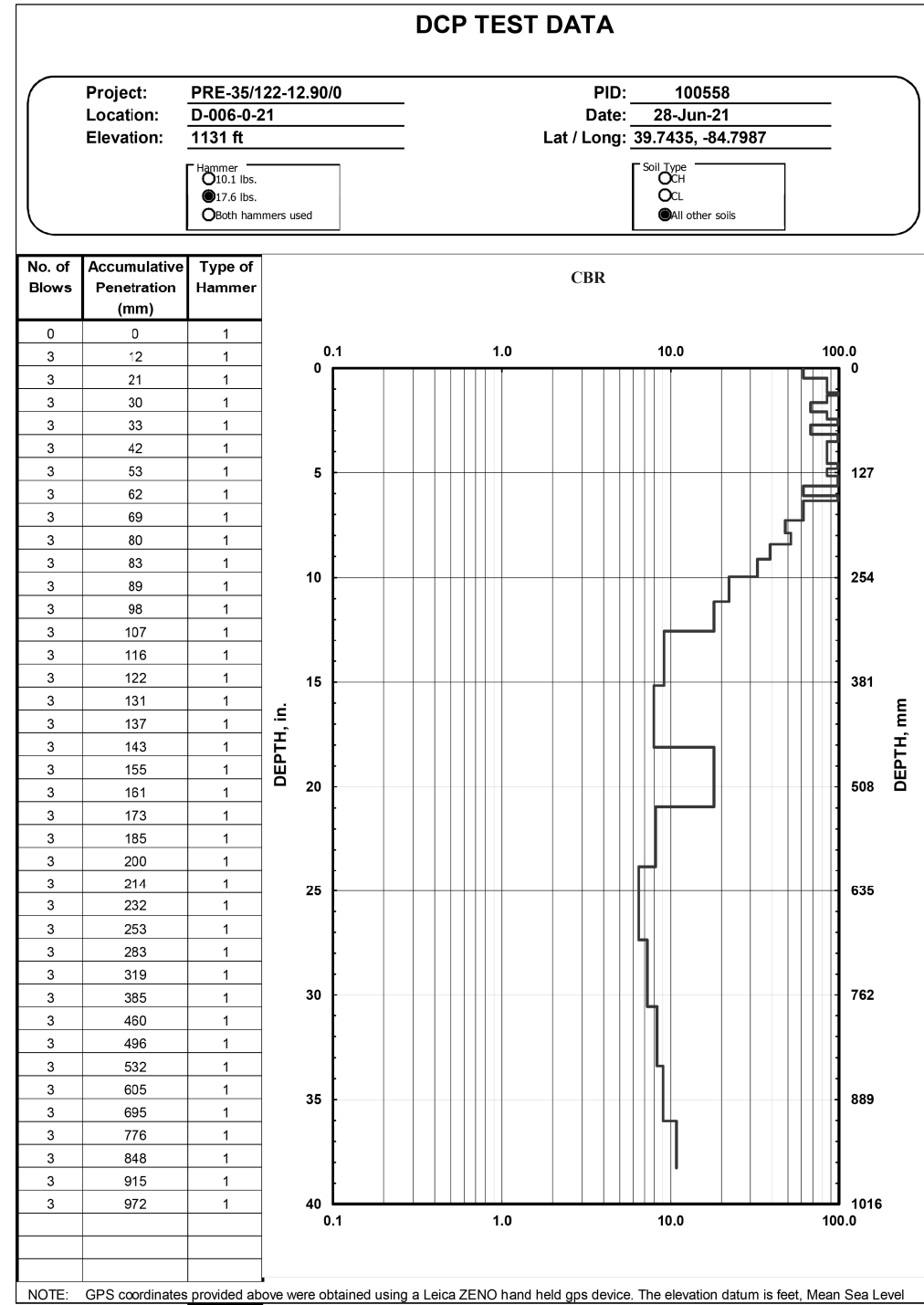
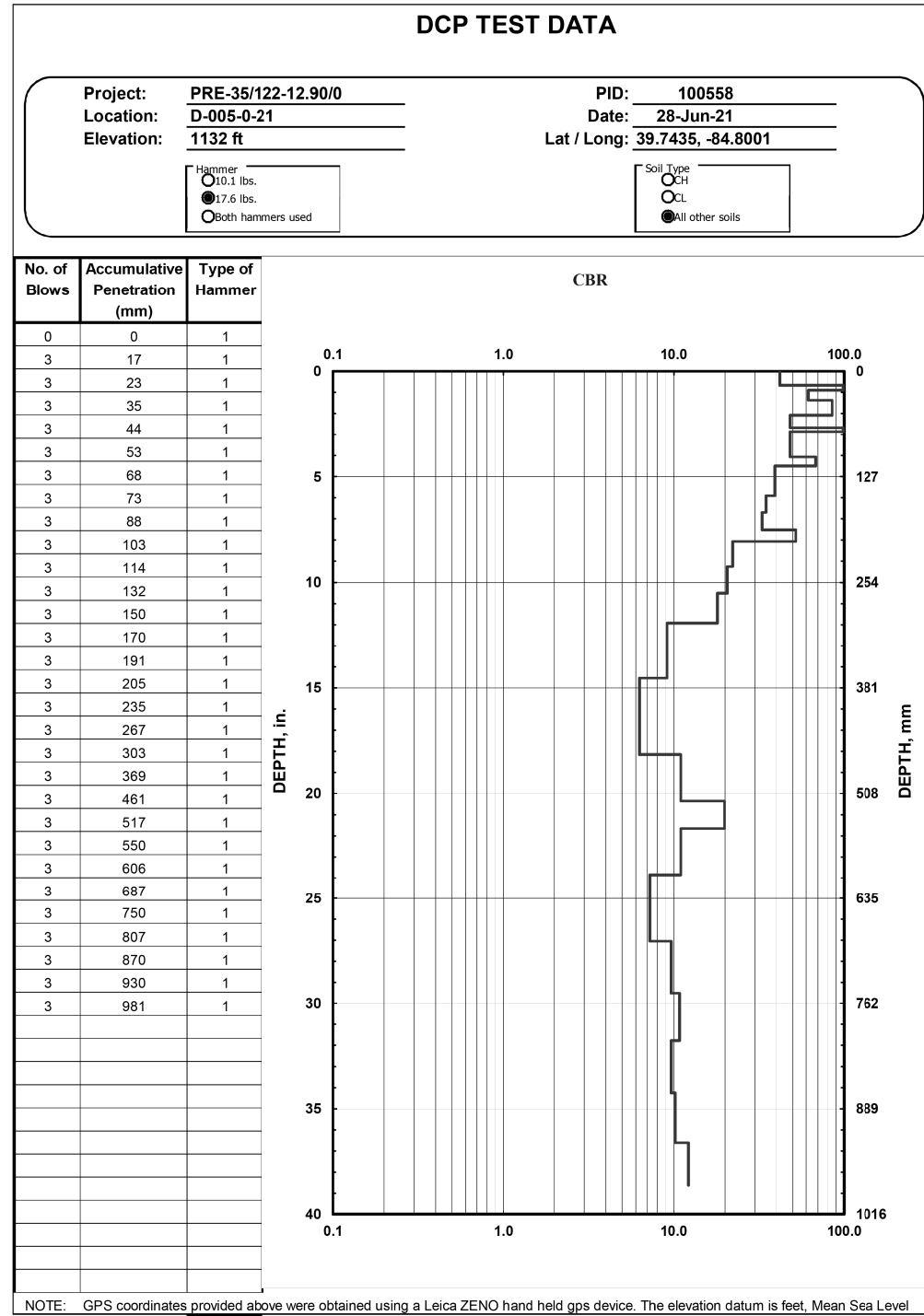
EOB

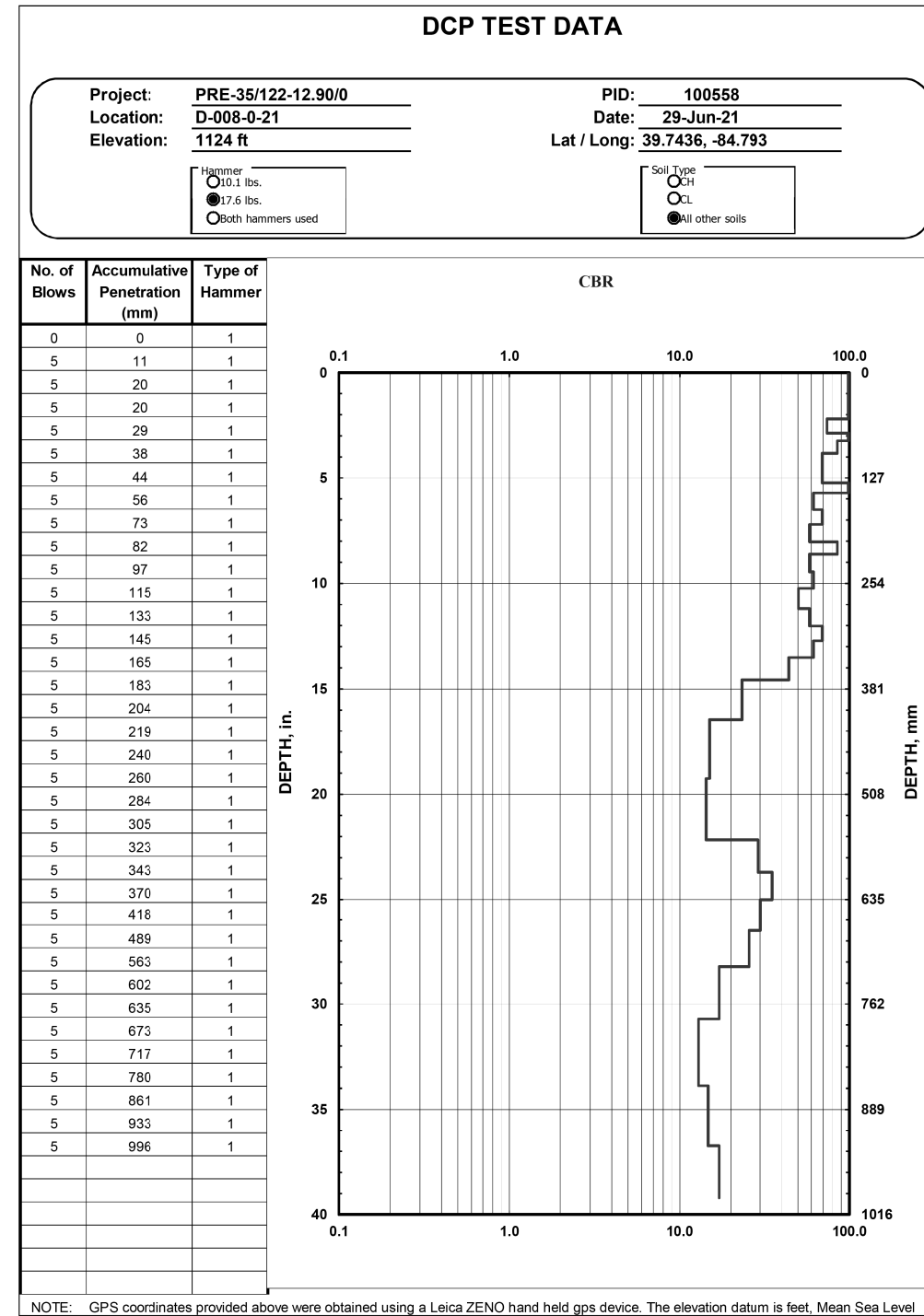
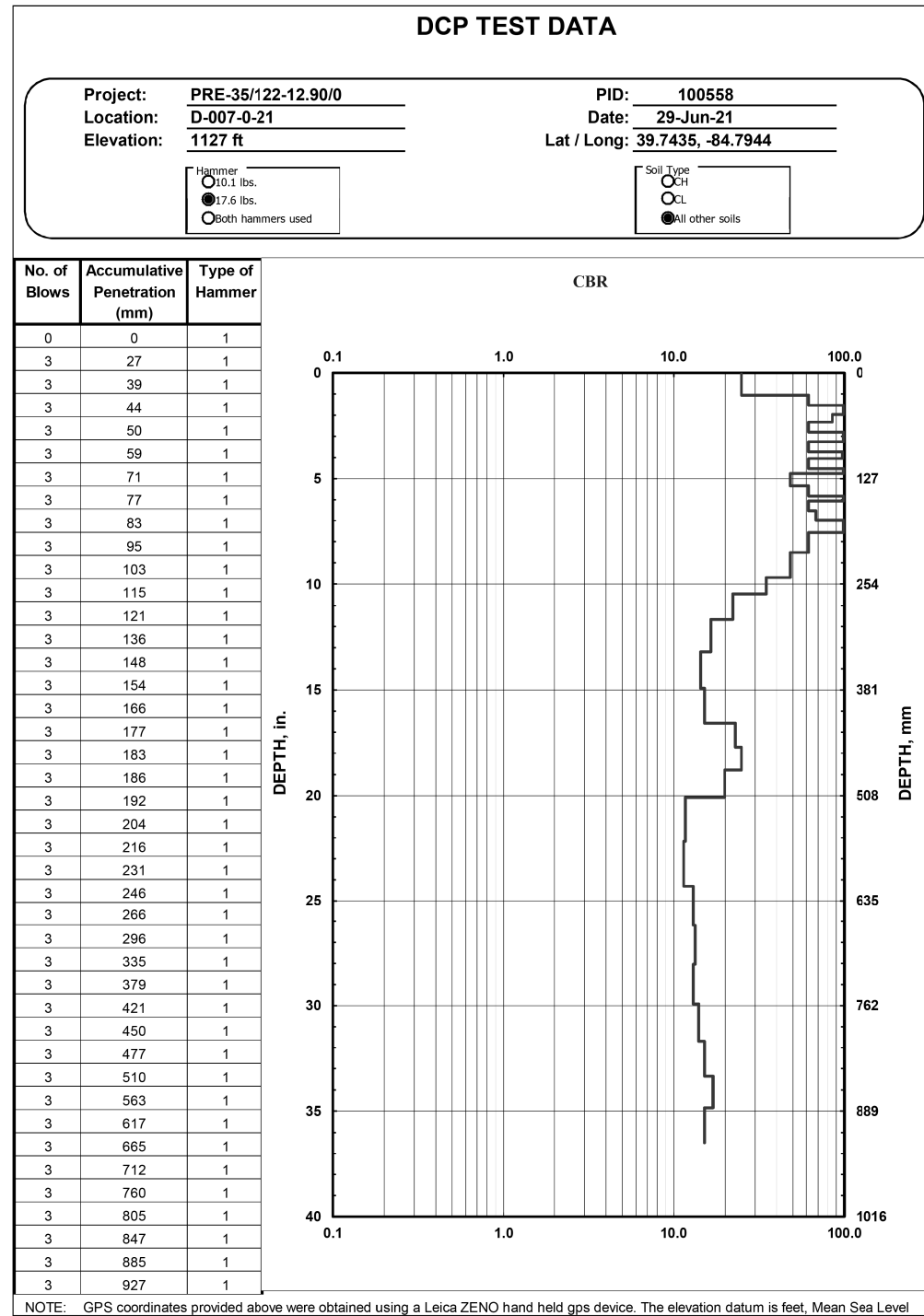
NOTES: NONE

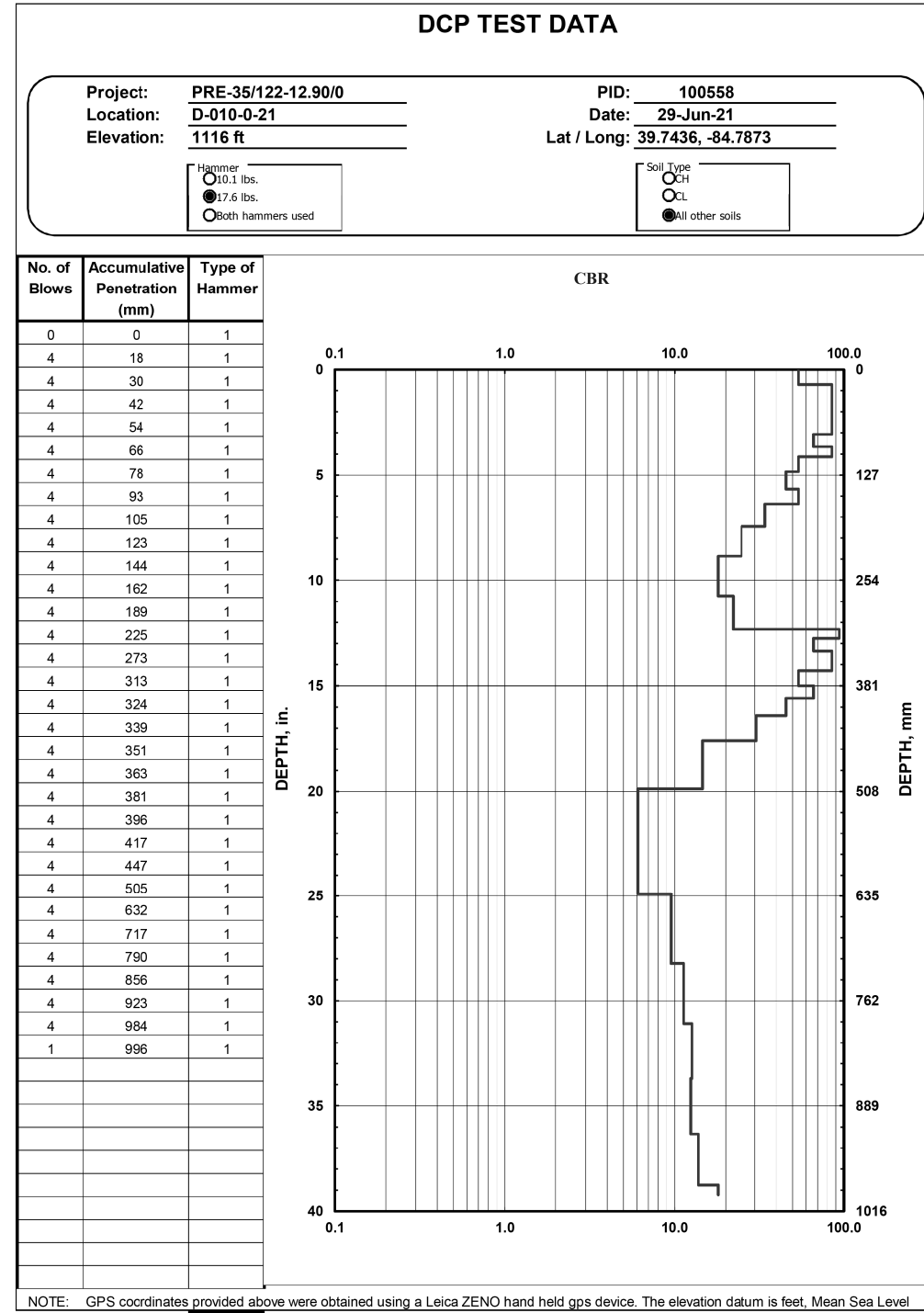
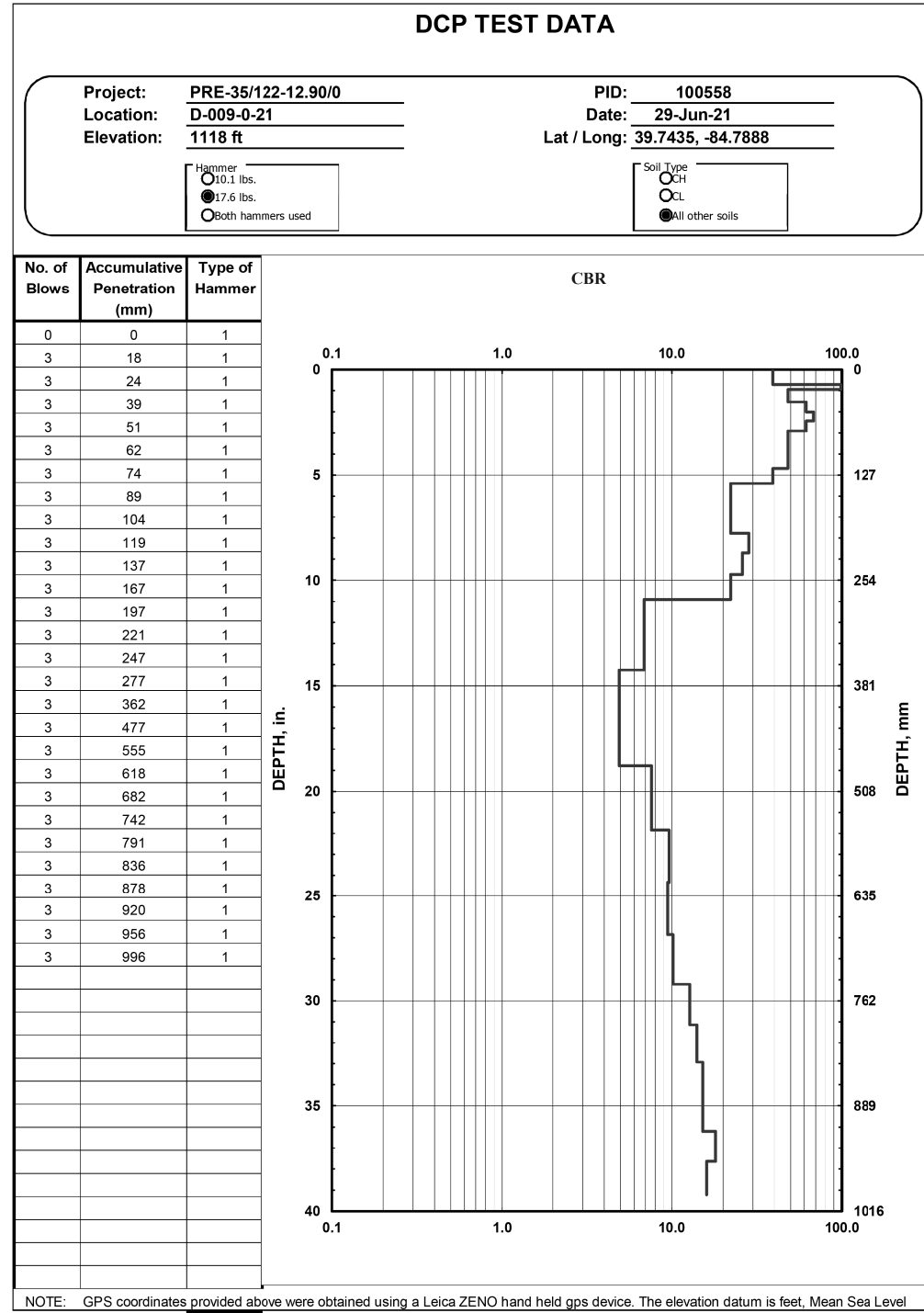
ABANDONMENT METHODS, MATERIALS, QUANTITIES: ASPHALT PATCH; AUGER CUTTINGS MIXED WITH .25 BAG BENTONITE CHIPS

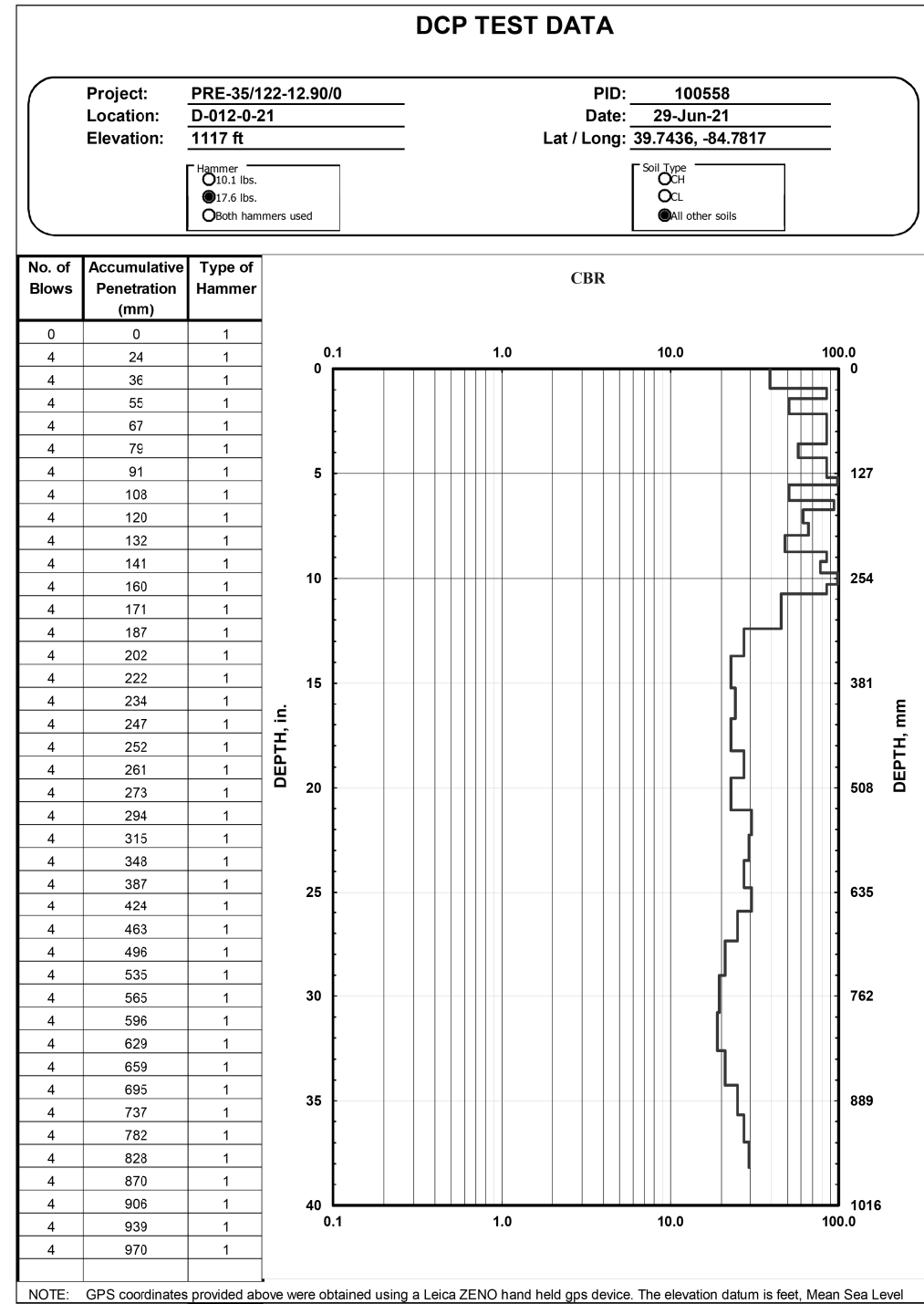
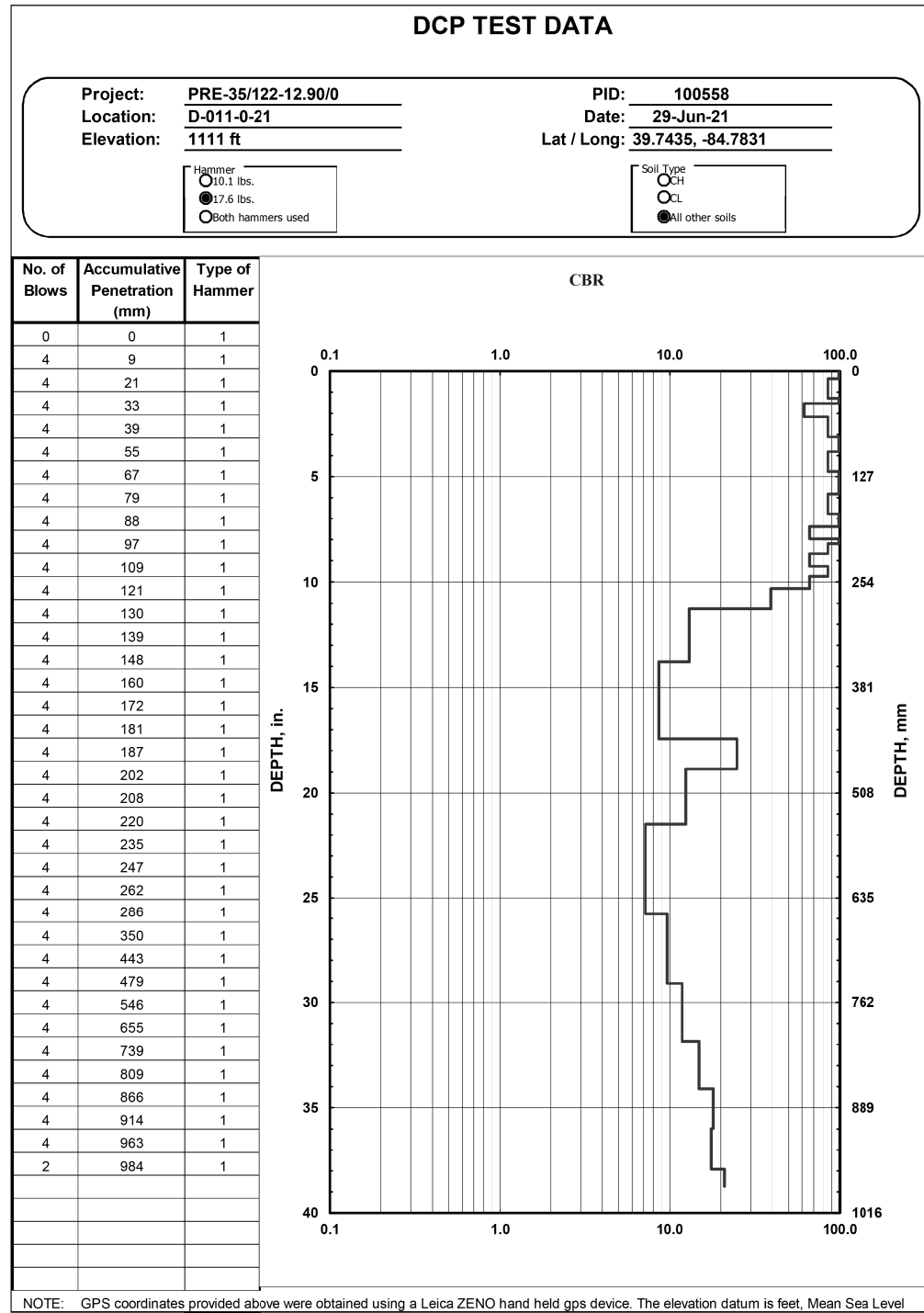


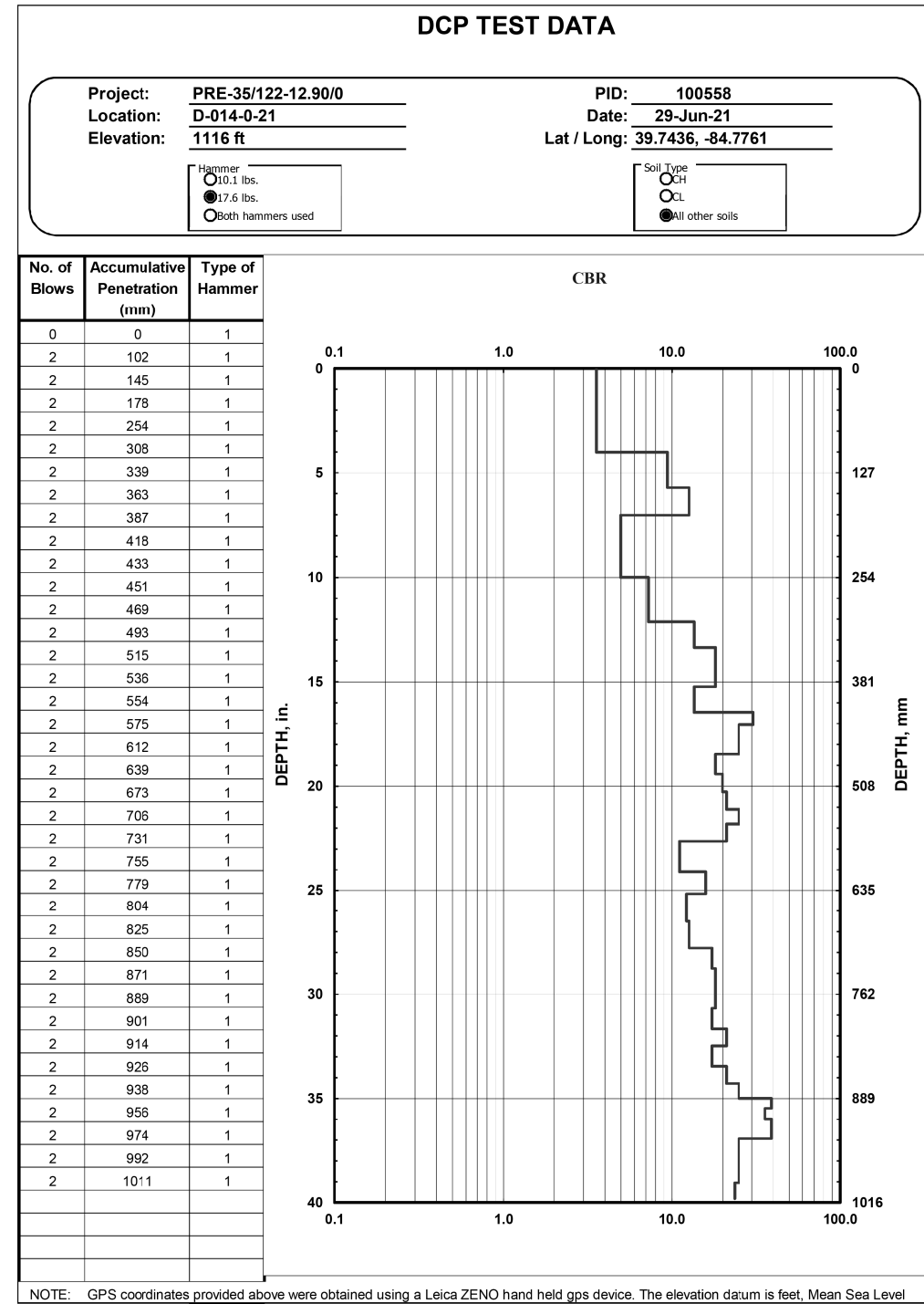
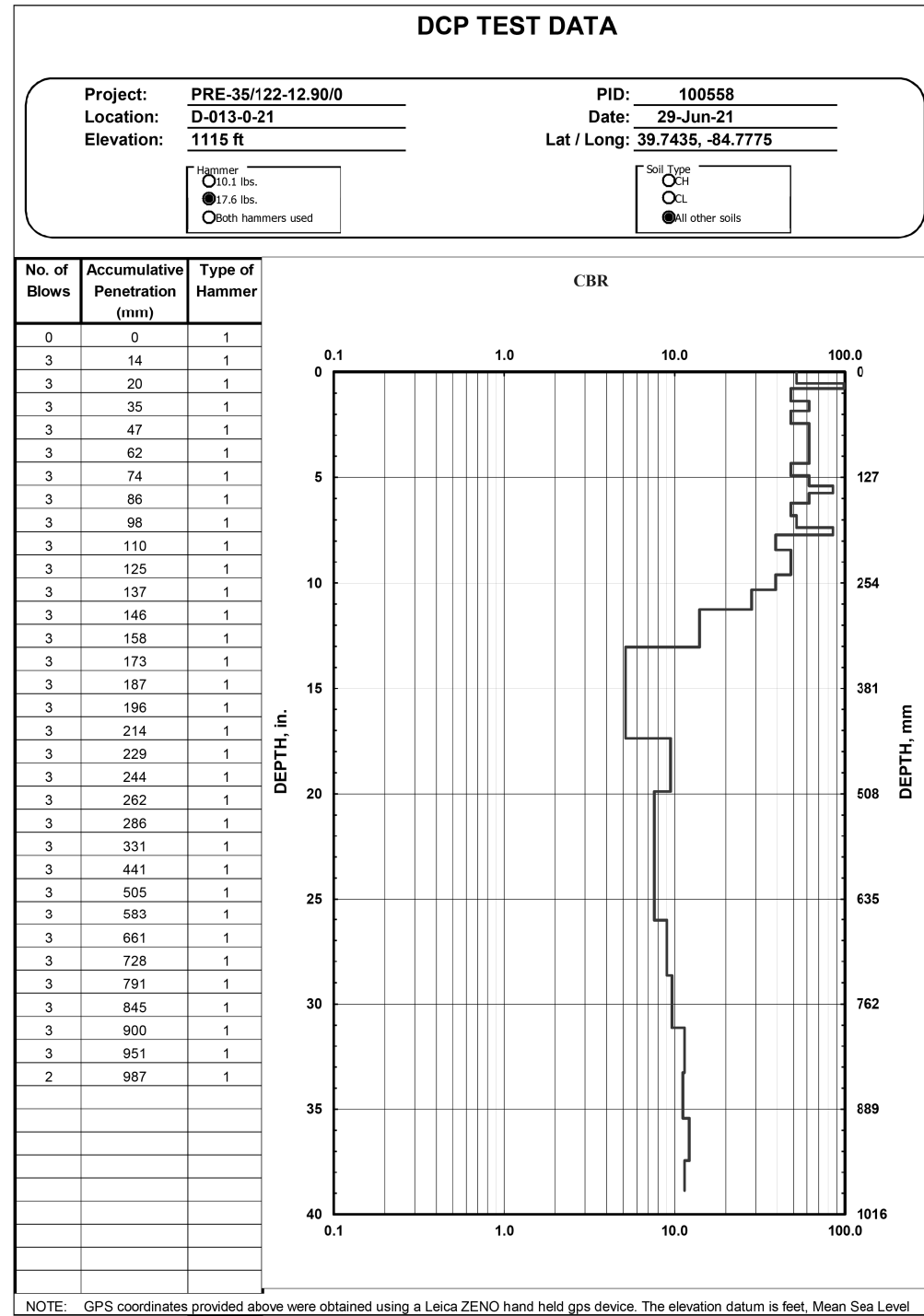


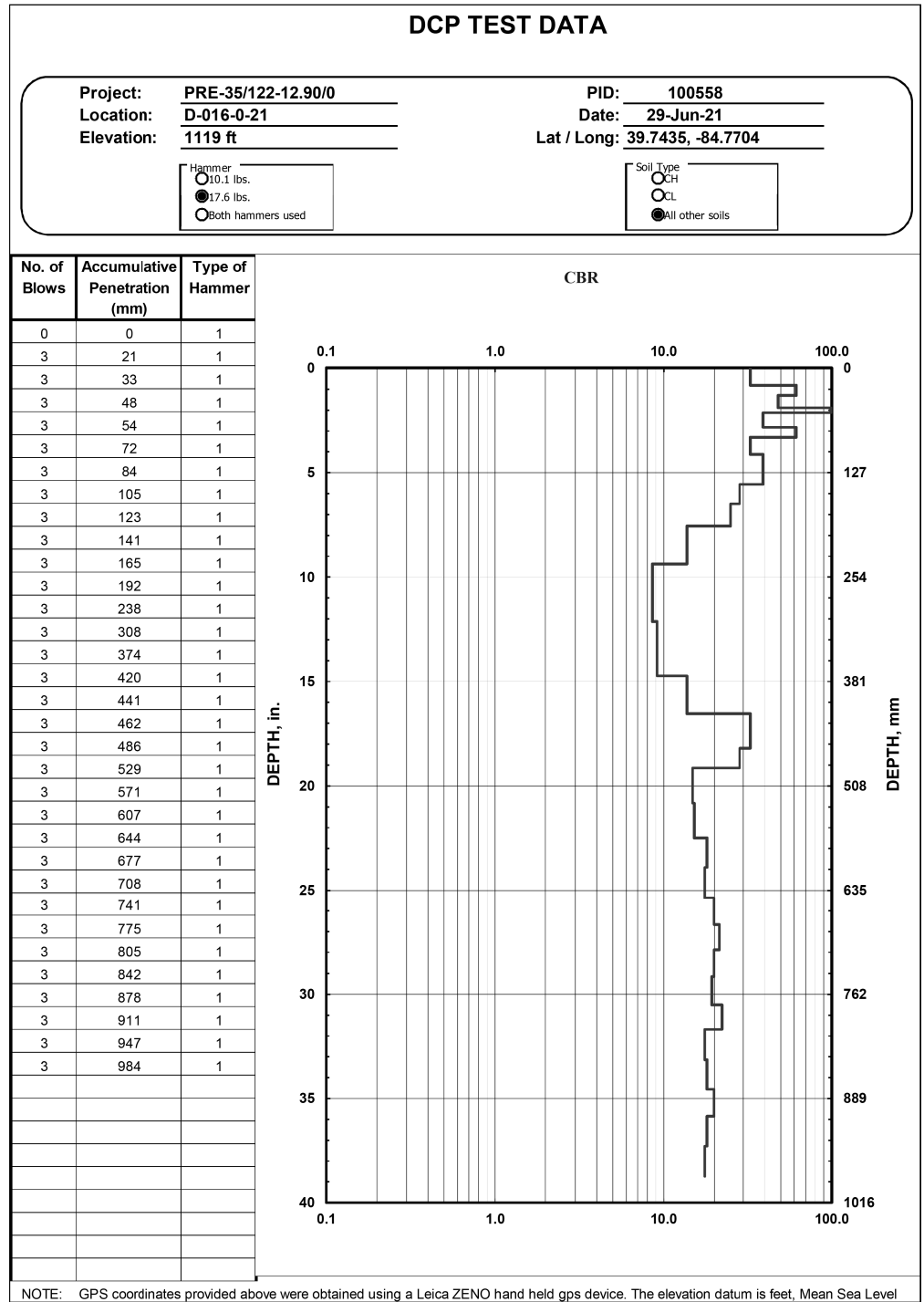
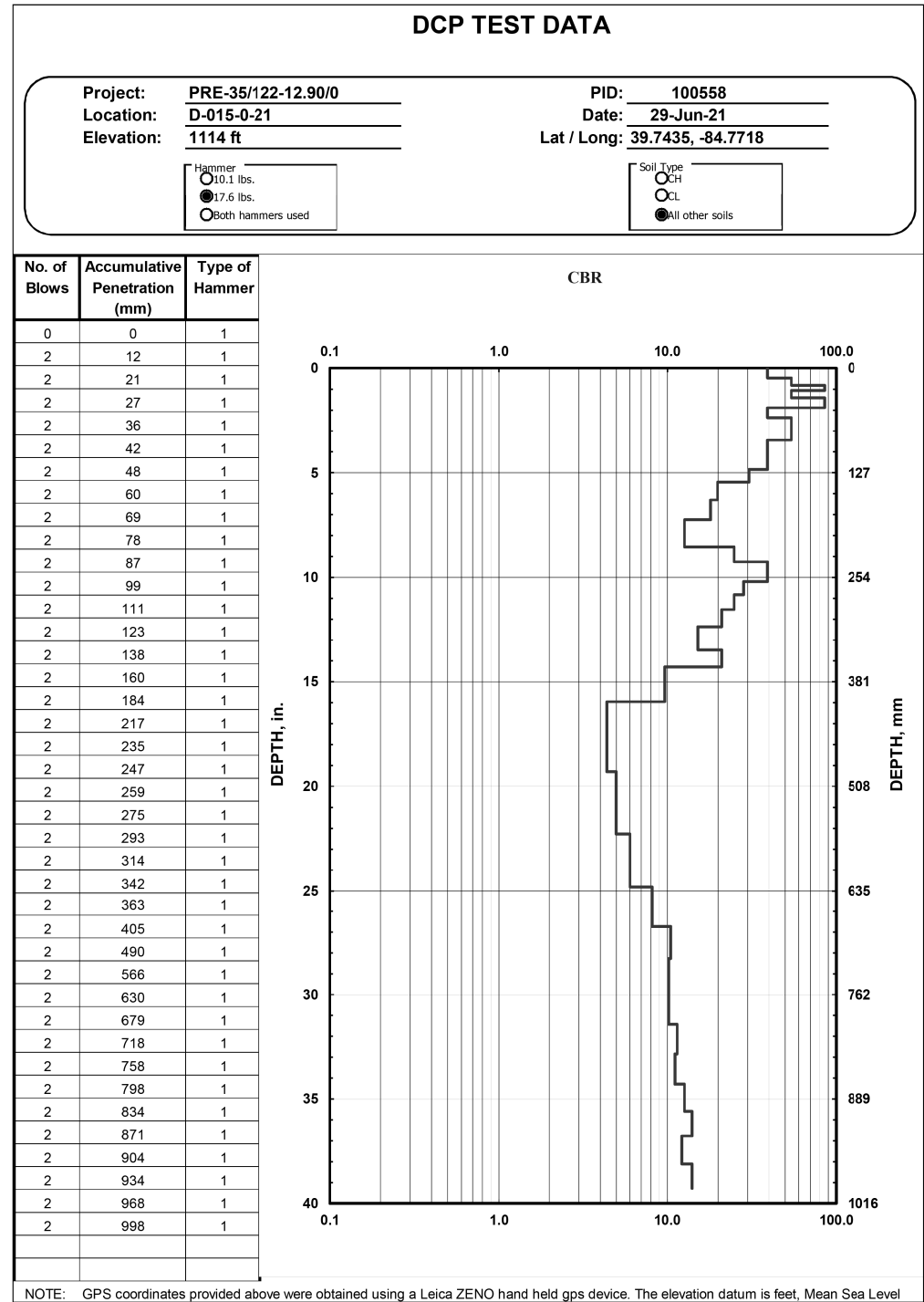


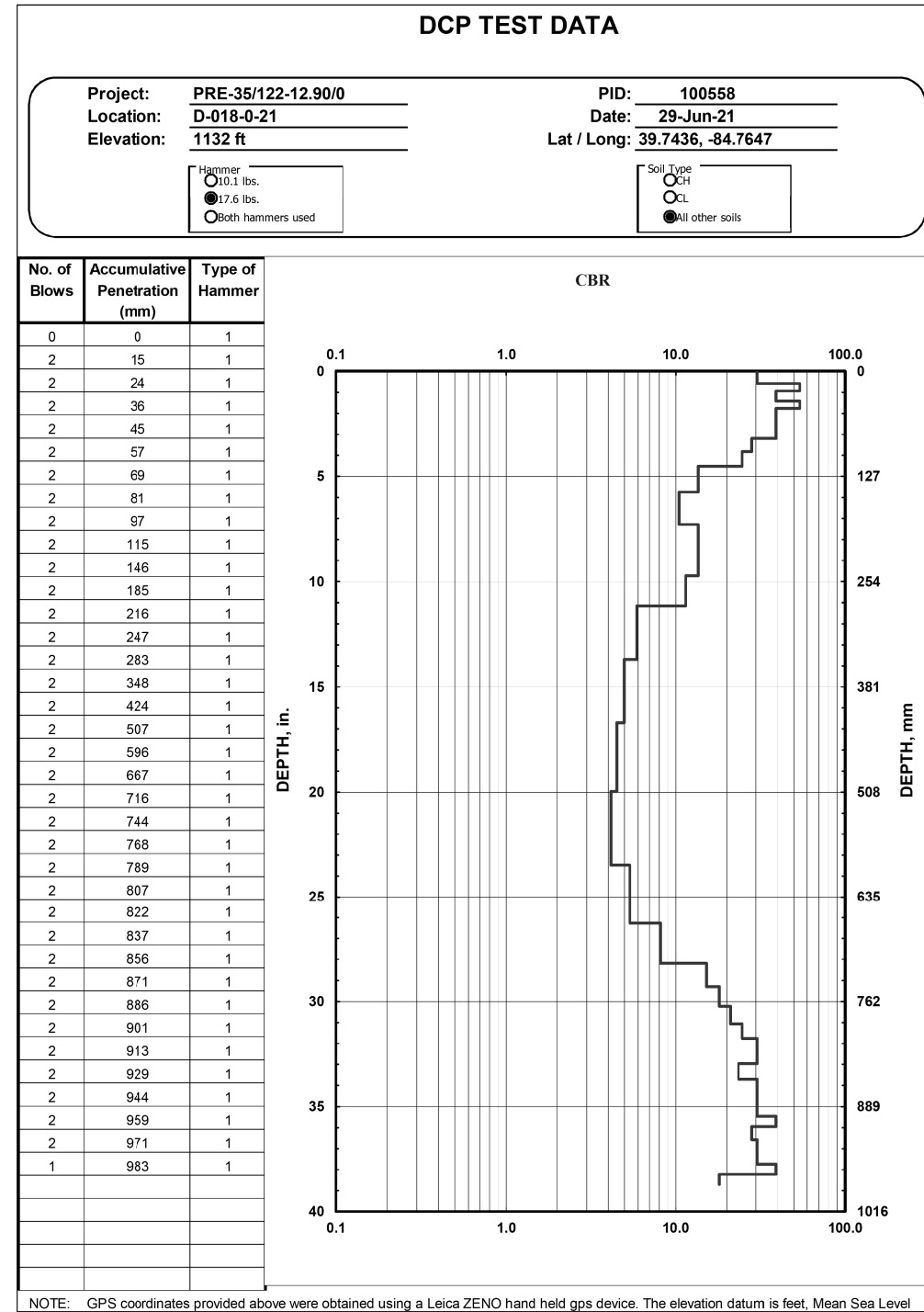
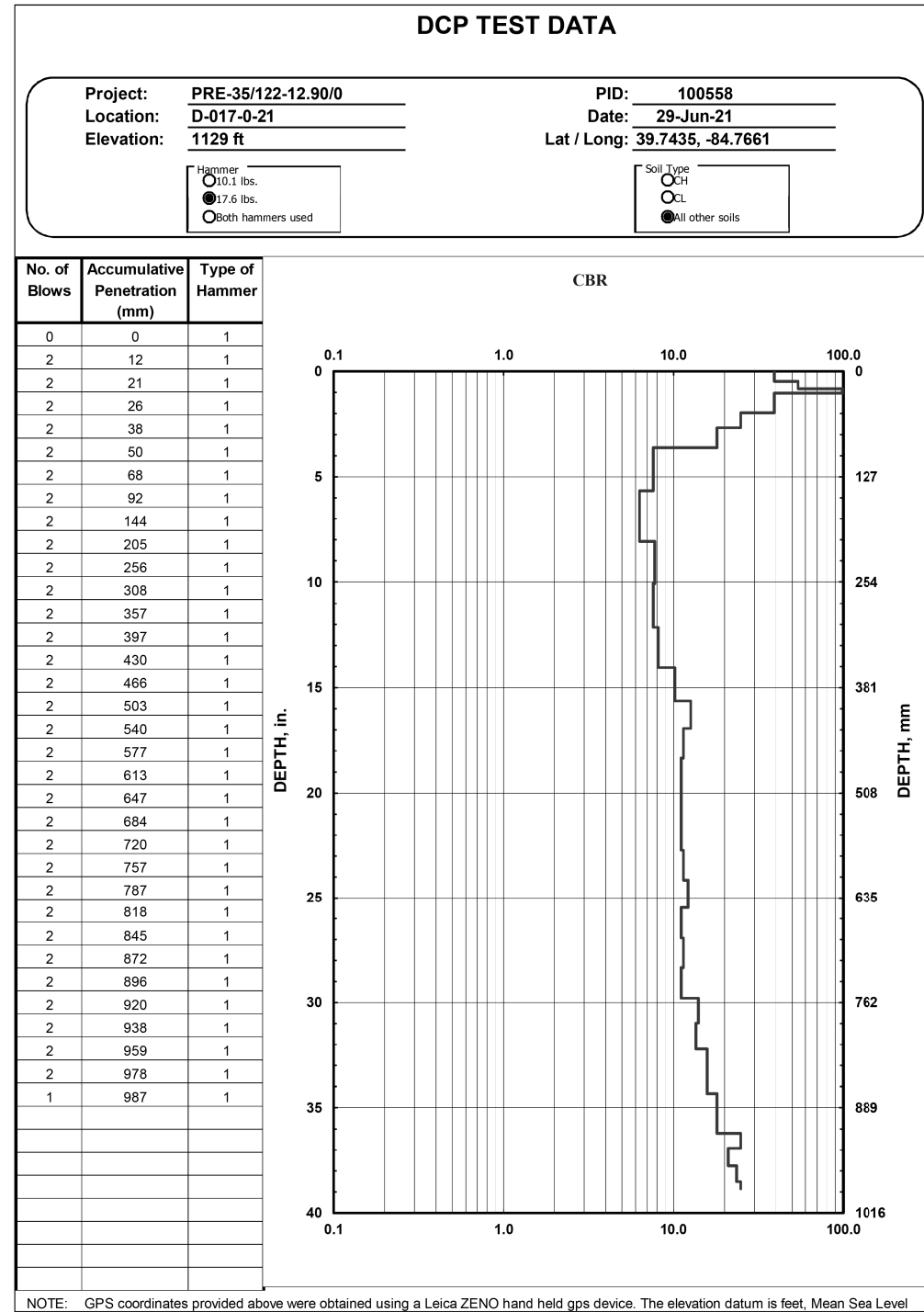


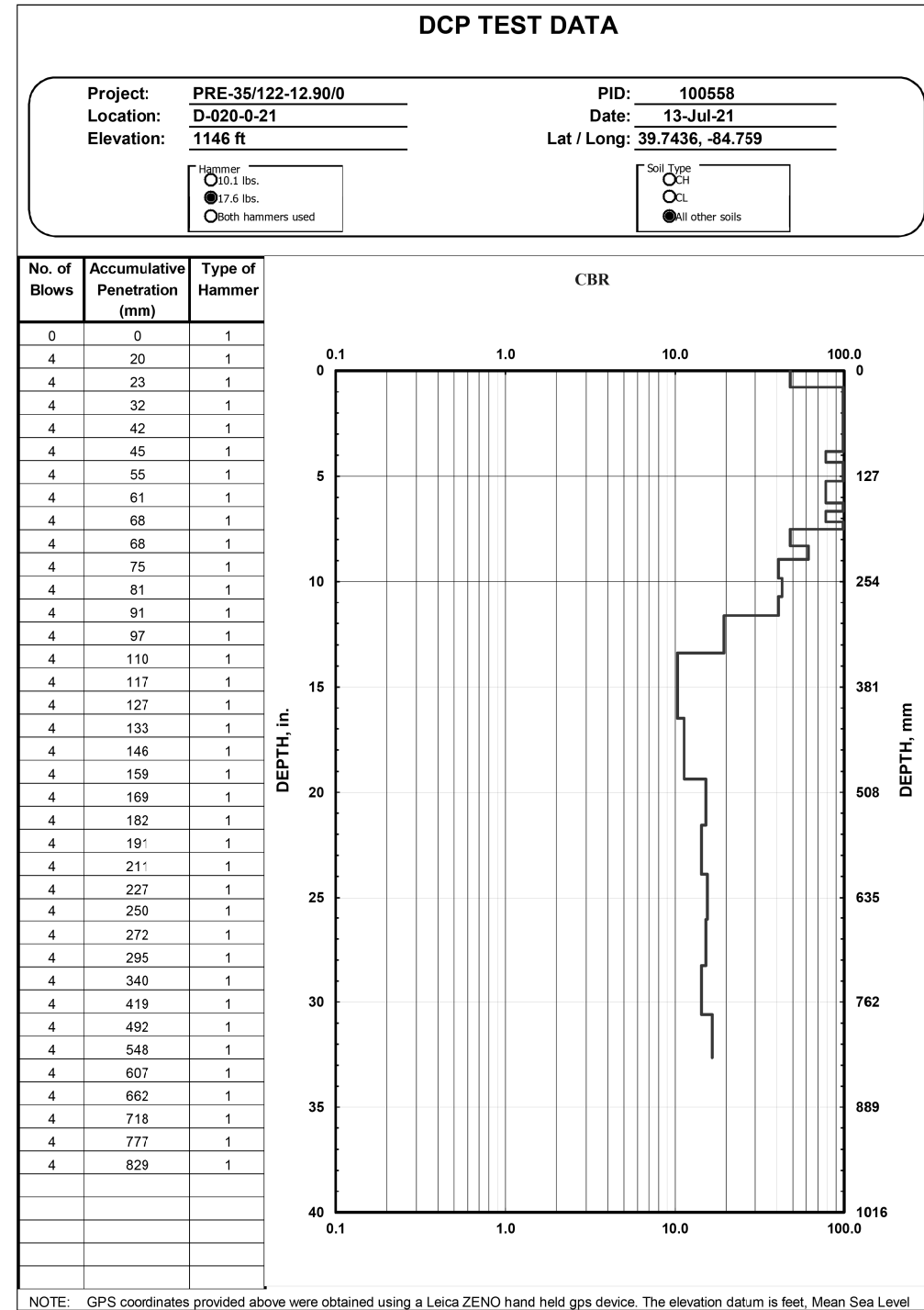
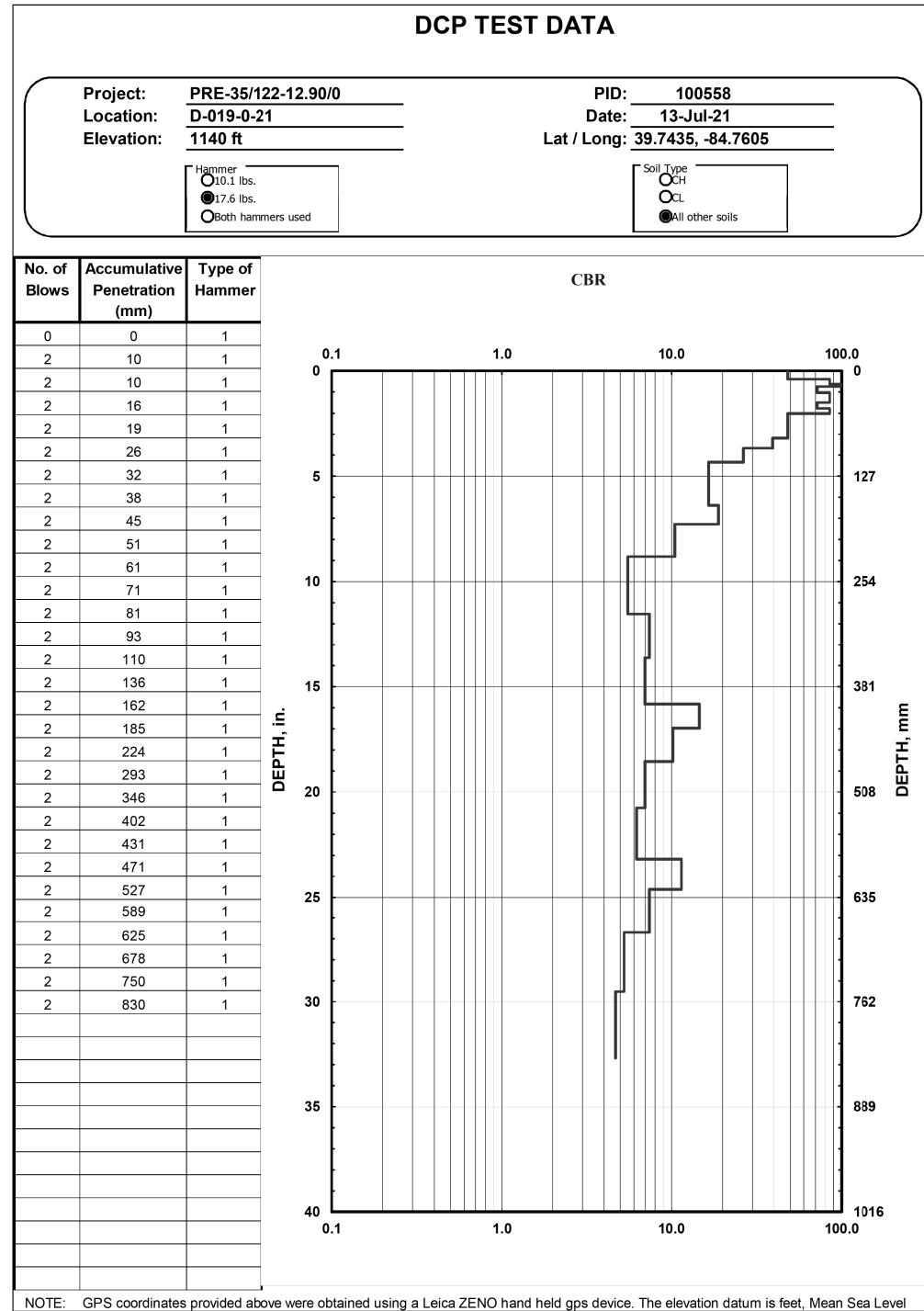












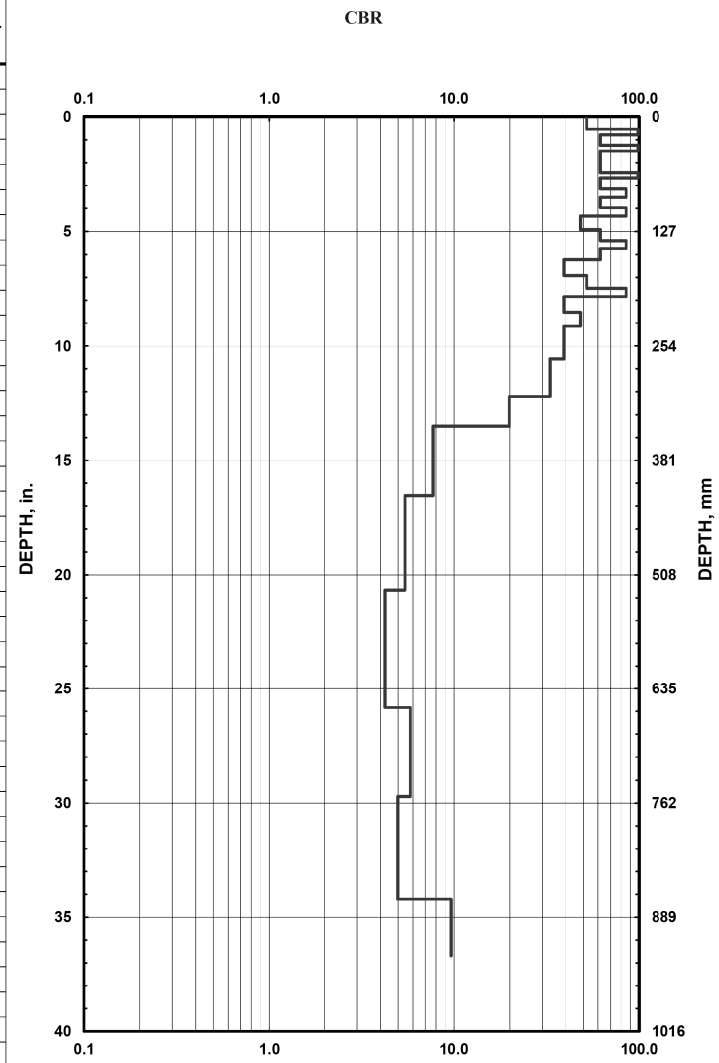
DCP TEST DATA

Project: PRE-35/122-12.90/0 PID: 100558
 Location: D-021-0-21 Date: 7-Jul-21
 Elevation: 1151 ft Lat / Long: 39.7435, -84.7548

Hammer
 ○ 10.1 lbs.
 ● 17.6 lbs.
 ○ Both hammers used

Soil Type
 ○ CH
 ○ CL
 ● All other soils

No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
3	14	1
3	20	1
3	32	1
3	38	1
3	50	1
3	62	1
3	68	1
3	80	1
3	89	1
3	101	1
3	110	1
3	125	1
3	137	1
3	146	1
3	158	1
3	176	1
3	190	1
3	199	1
3	217	1
3	232	1
3	250	1
3	268	1
3	289	1
3	310	1
3	343	1
3	420	1
3	525	1
3	656	1
3	755	1
3	869	1
3	932	1



NOTE: GPS coordinates provided above were obtained using a Leica ZENO hand held gps device. The elevation datum is feet, Mean Sea Level

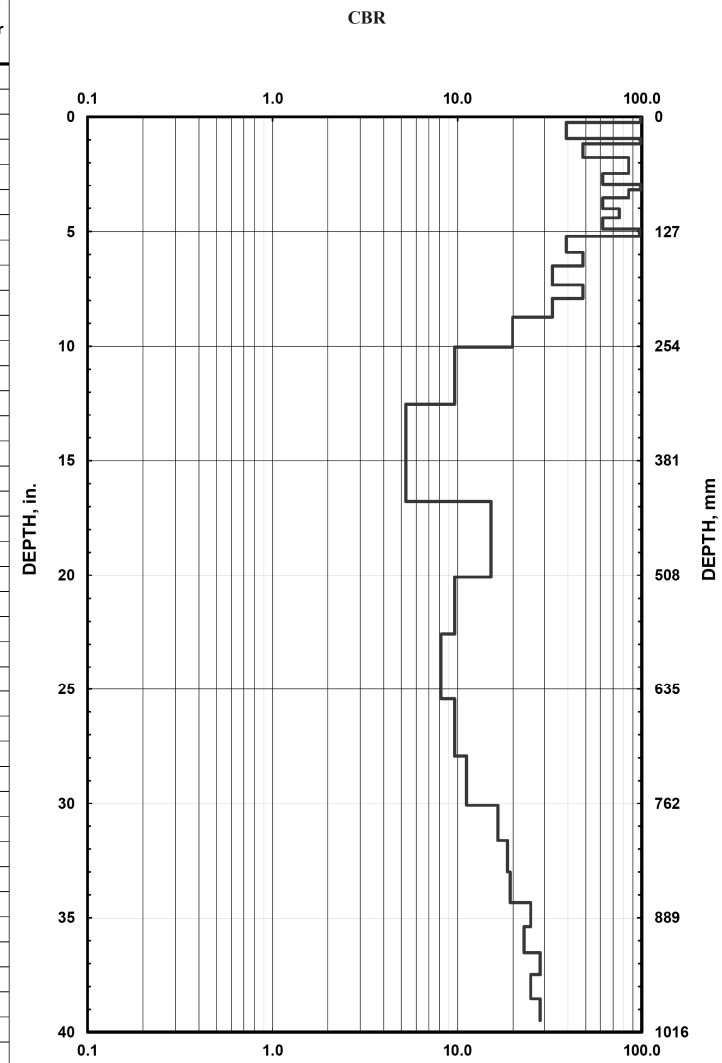
DCP TEST DATA

Project: PRE-35/122-12.90/0 PID: 100558
 Location: D-022-0-21 Date: 7-Jul-21
 Elevation: 1144 ft Lat / Long: 39.7436, -84.7534

Hammer
 ○ 10.1 lbs.
 ● 17.6 lbs.
 ○ Both hammers used

Soil Type
 ○ CH
 ○ CL
 ● All other soils

No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
3	6	1
3	24	1
3	30	1
3	45	1
3	54	1
3	63	1
3	75	1
3	81	1
3	90	1
3	90	1
3	102	1
3	112	1
3	124	1
3	132	1
3	150	1
3	165	1
3	186	1
3	201	1
3	222	1
3	255	1
3	318	1
3	426	1
3	468	1
3	510	1
3	573	1
3	646	1
3	709	1
3	764	1
3	803	1
3	838	1
3	872	1
3	899	1
3	928	1
3	952	1
3	979	1
3	1003	1



NOTE: GPS coordinates provided above were obtained using a Leica ZENO hand held gps device. The elevation datum is feet, Mean Sea Level

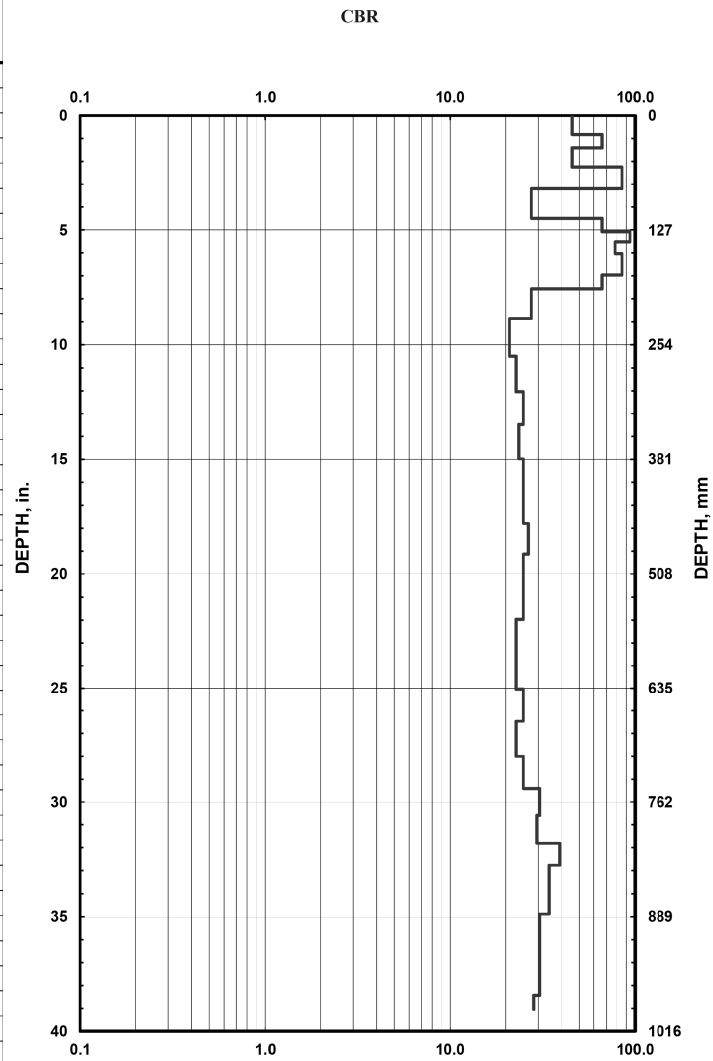
DCP TEST DATA

Project: PRE-35/122-12.90/0 PID: 100558
 Location: D-023-0-21 Date: 7-Jul-21
 Elevation: 1136 ft Lat / Long: 39.7435, -84.7491

Hammer
 10.1 lbs.
 17.6 lbs.
 Both hammers used

Soil Type
 CH
 CL
 All other soils

No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
4	21	1
4	36	1
4	57	1
4	69	1
4	81	1
4	114	1
4	129	1
4	140	1
4	153	1
4	165	1
4	177	1
4	192	1
4	225	1
4	267	1
4	306	1
4	342	1
4	380	1
4	416	1
4	452	1
4	486	1
4	522	1
4	558	1
4	597	1
4	636	1
4	672	1
4	711	1
4	747	1
4	777	1
4	808	1
4	832	1
4	859	1
4	886	1
4	916	1
4	946	1
4	976	1
2	992	1



NOTE: GPS coordinates provided above were obtained using a Leica ZENO hand held gps device. The elevation datum is feet, Mean Sea Level

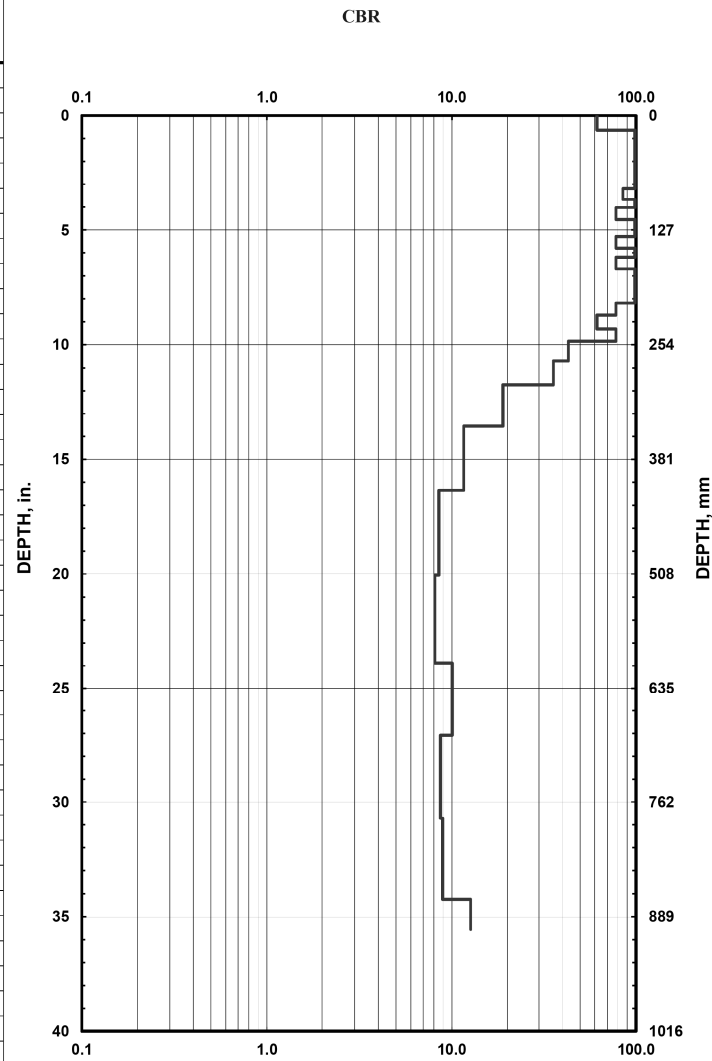
DCP TEST DATA

Project: PRE-35/122-12.90/0 PID: 100558
 Location: D-024-0-21 Date: 13-Jul-21
 Elevation: 1144 ft Lat / Long: 39.7436, -84.7477

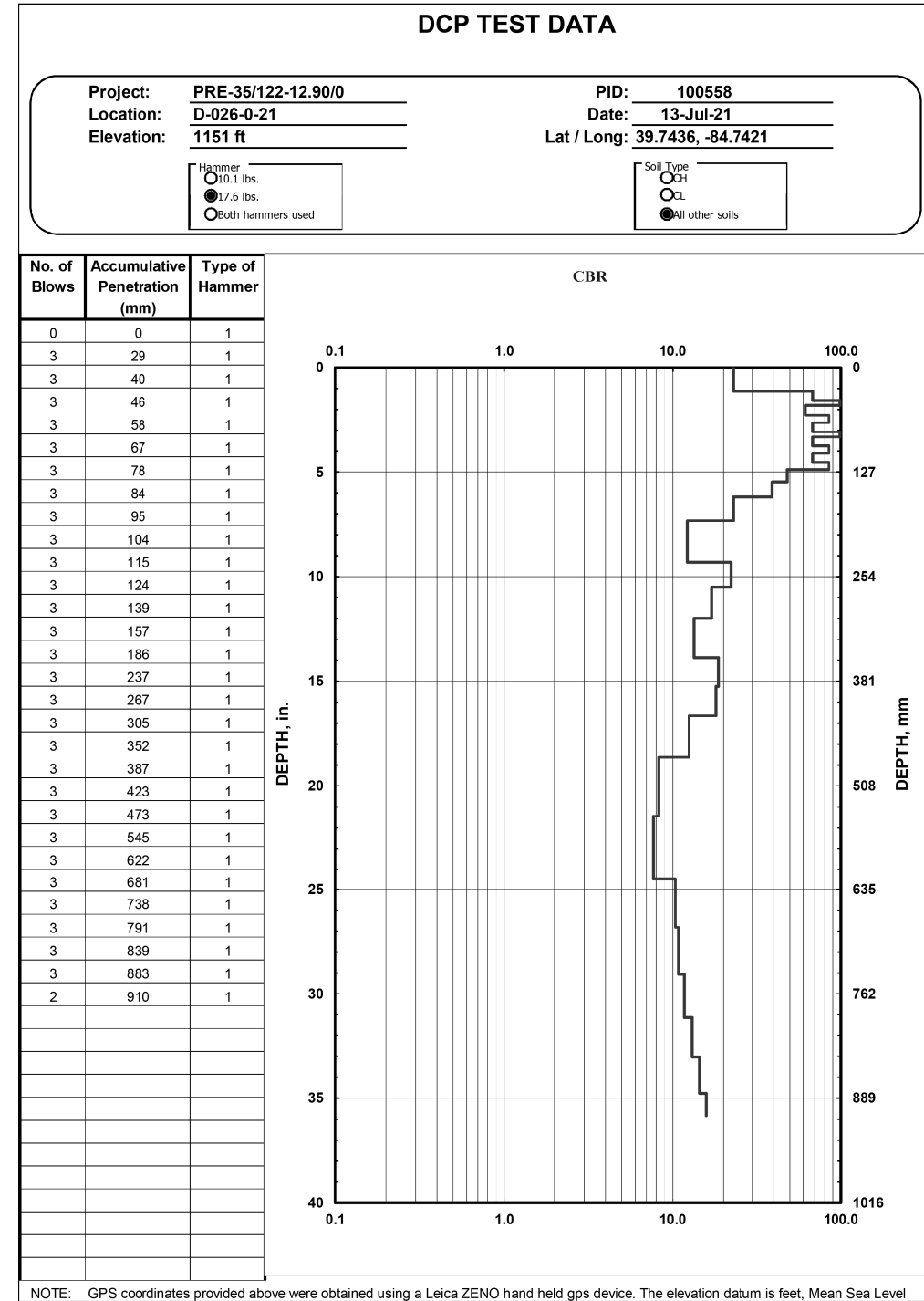
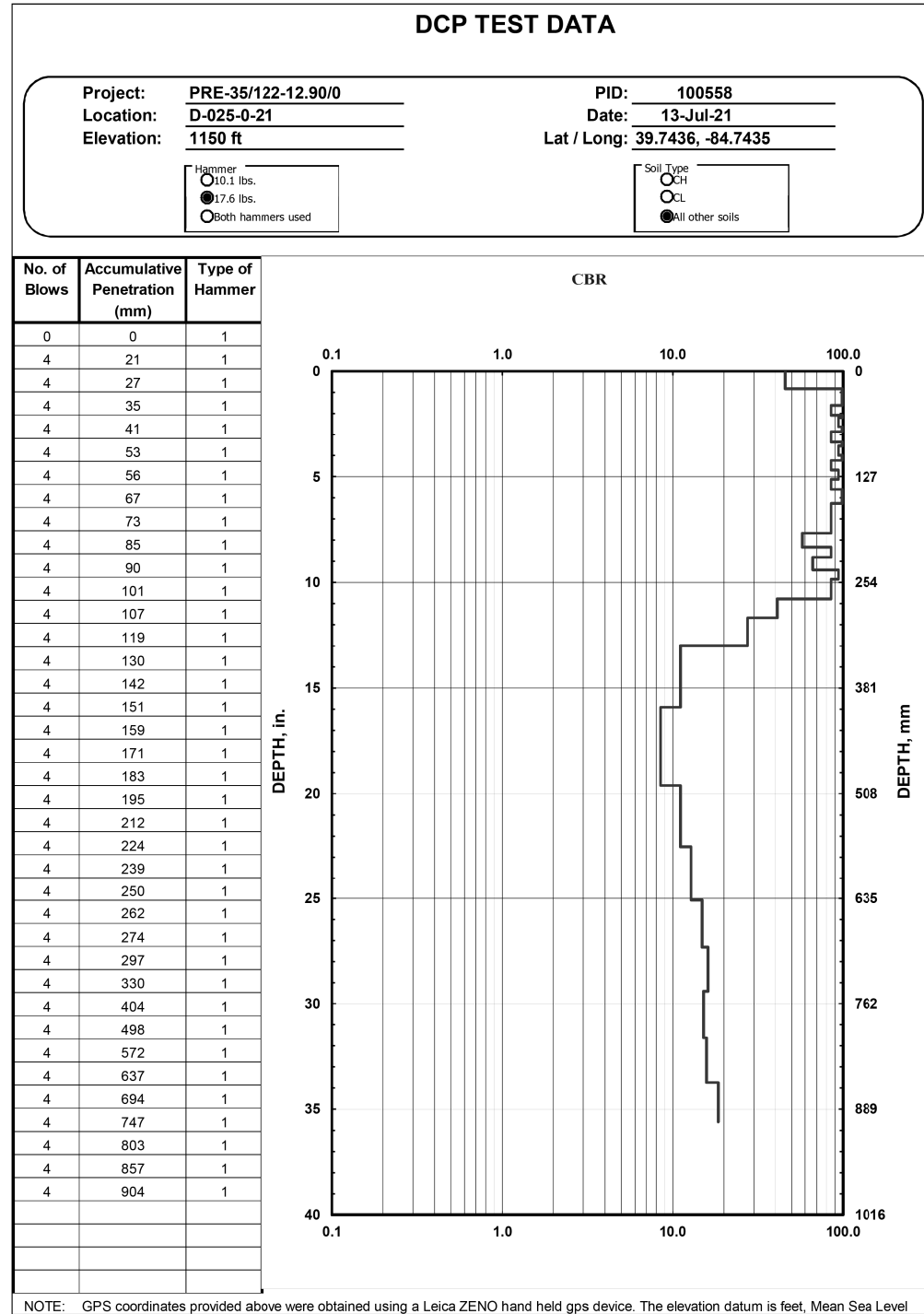
Hammer
 10.1 lbs.
 17.6 lbs.
 Both hammers used

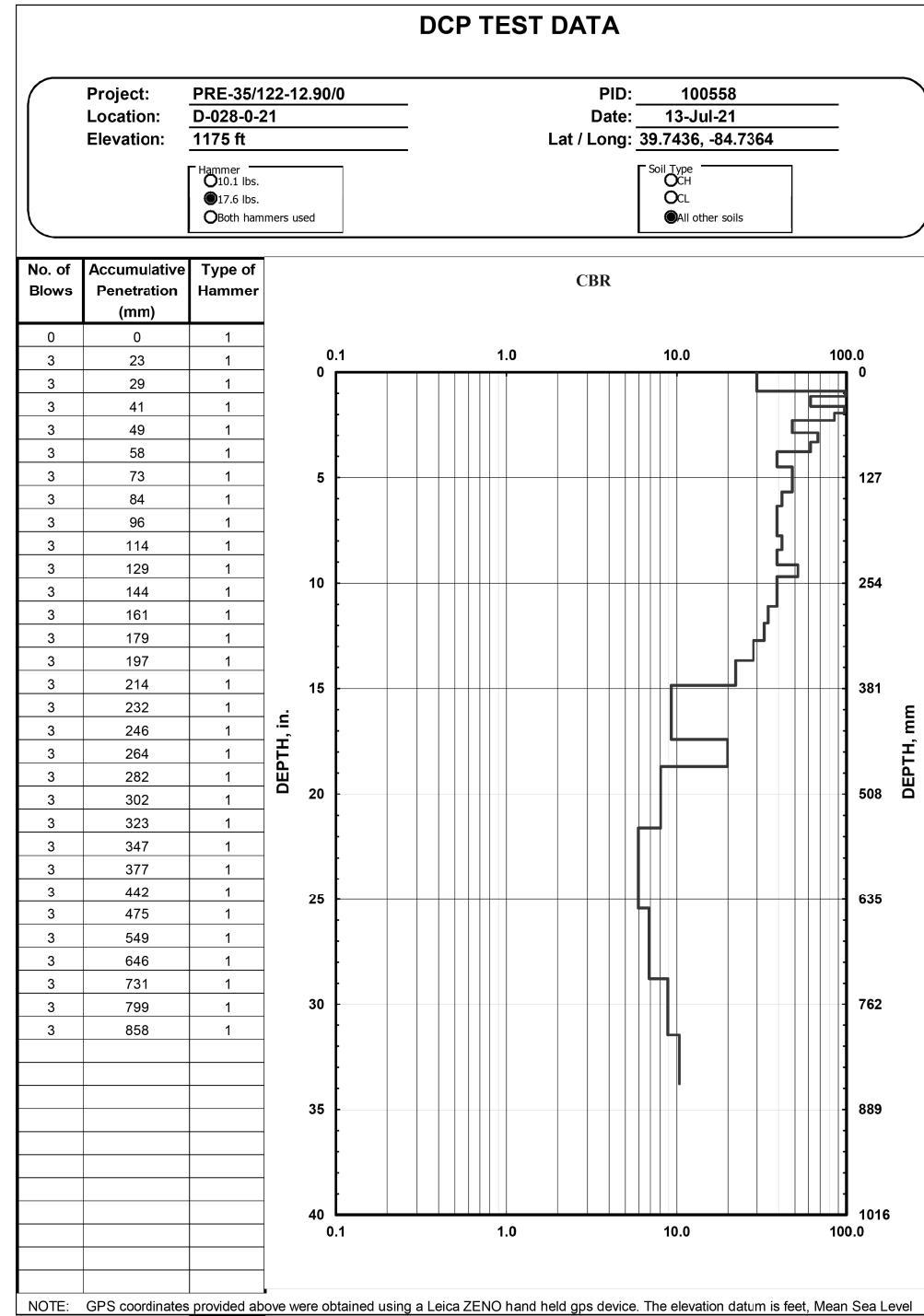
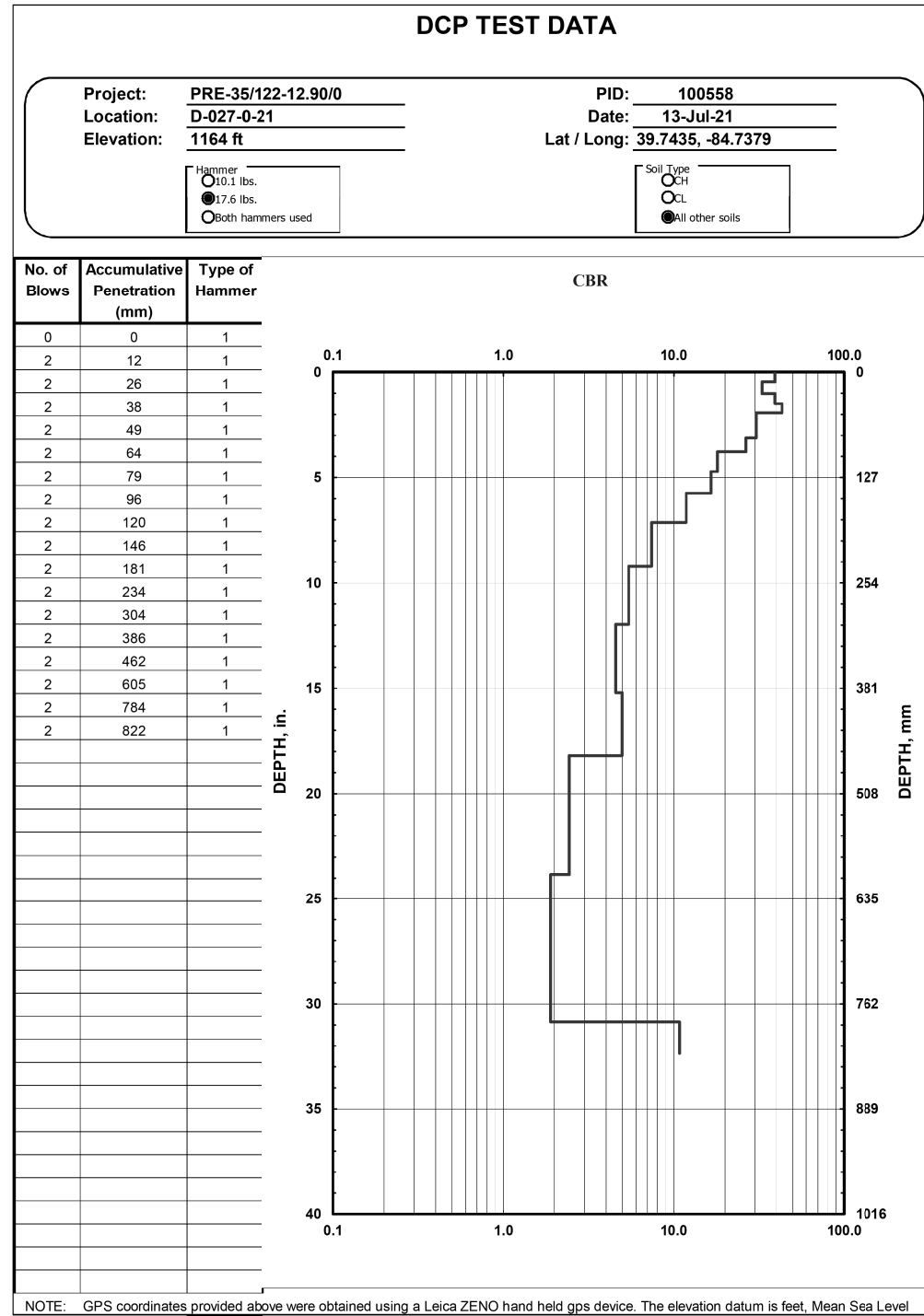
Soil Type
 CH
 CL
 All other soils

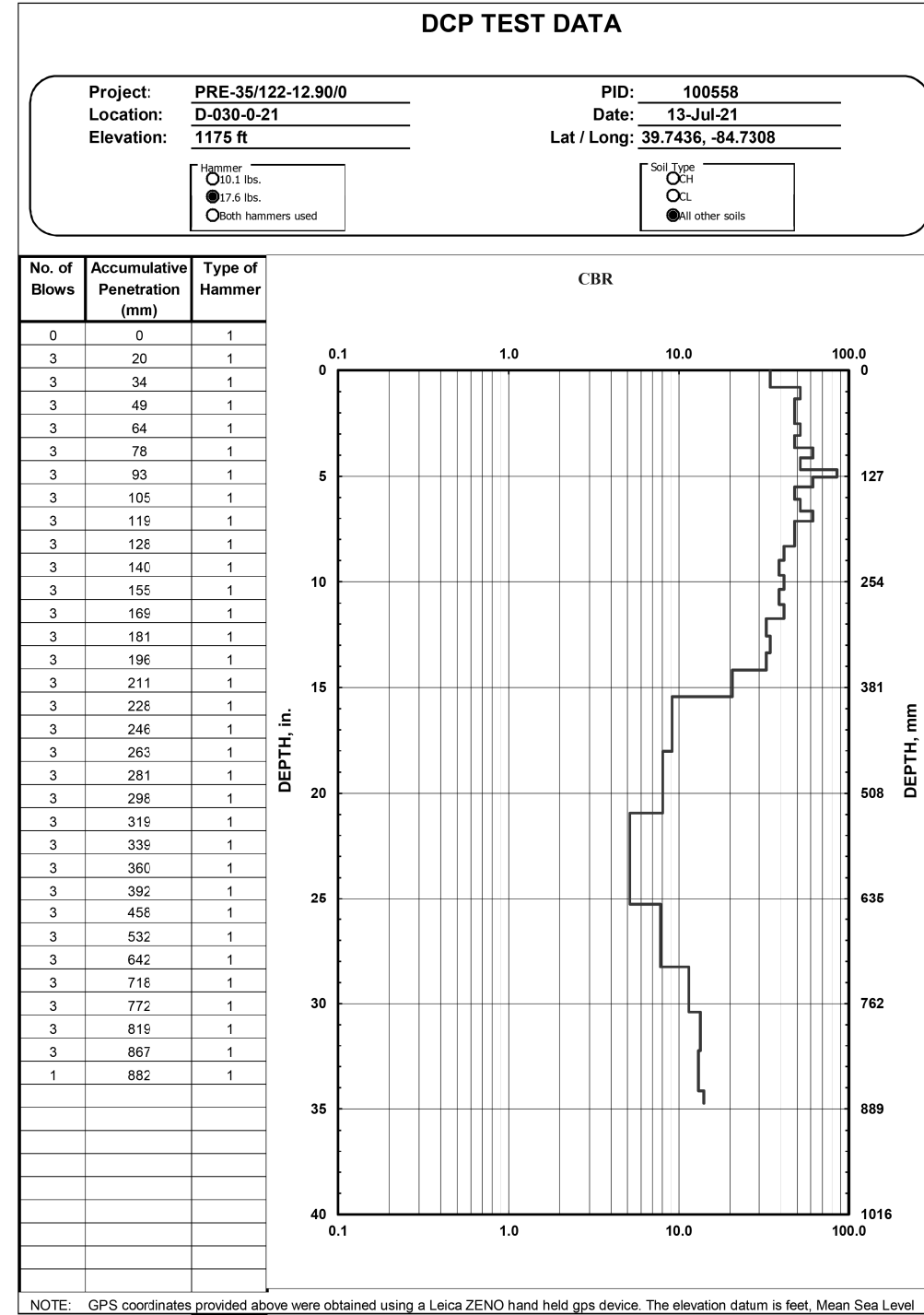
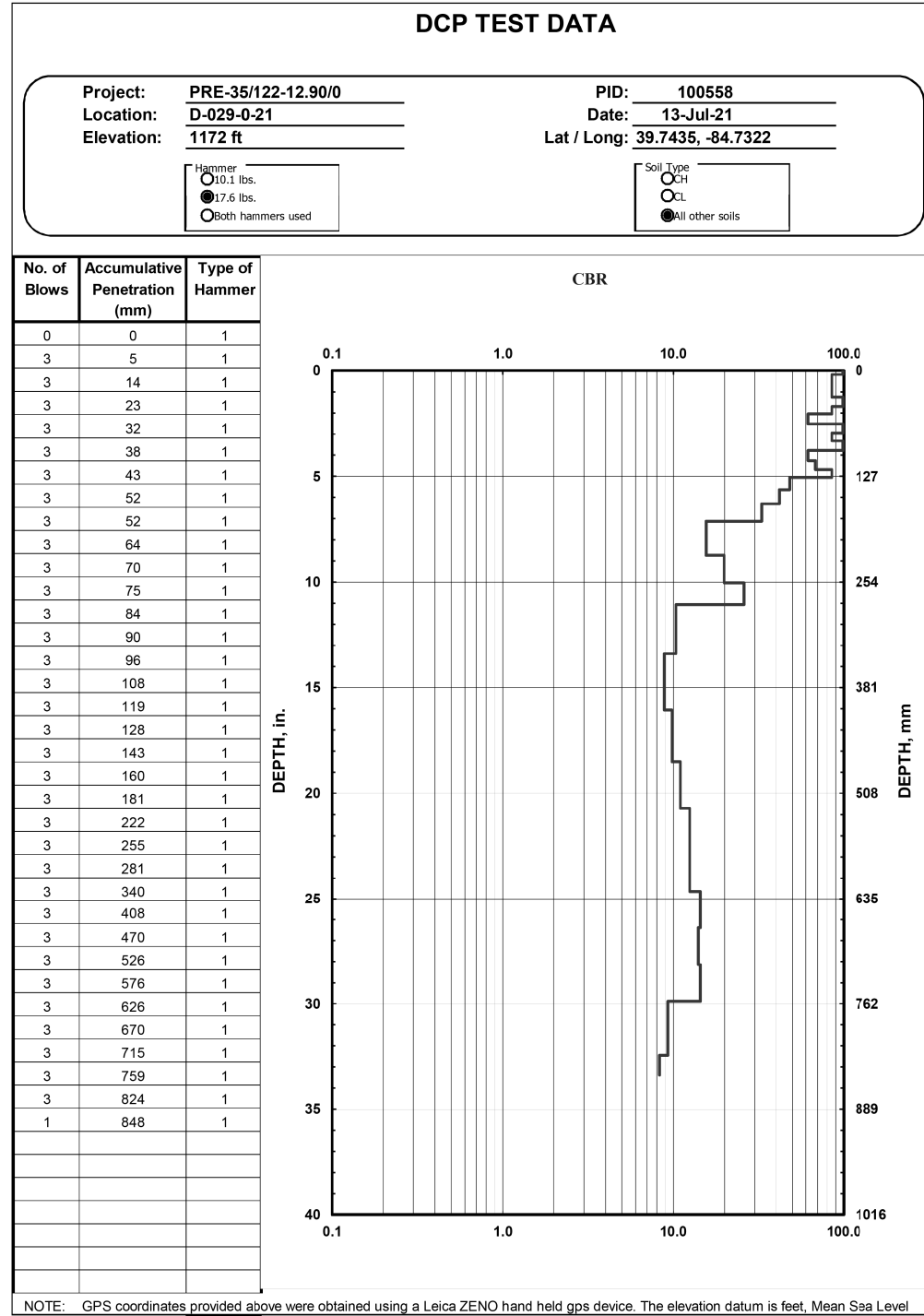
No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
4	16	1
4	22	1
4	29	1
4	35	1
4	45	1
4	54	1
4	61	1
4	71	1
4	81	1
4	93	1
4	102	1
4	115	1
4	125	1
4	134	1
4	147	1
4	157	1
4	170	1
4	179	1
4	189	1
4	198	1
4	208	1
4	221	1
4	237	1
4	250	1
4	272	1
4	298	1
4	344	1
4	415	1
4	509	1
4	607	1
4	688	1
4	780	1
4	870	1
2	903	1

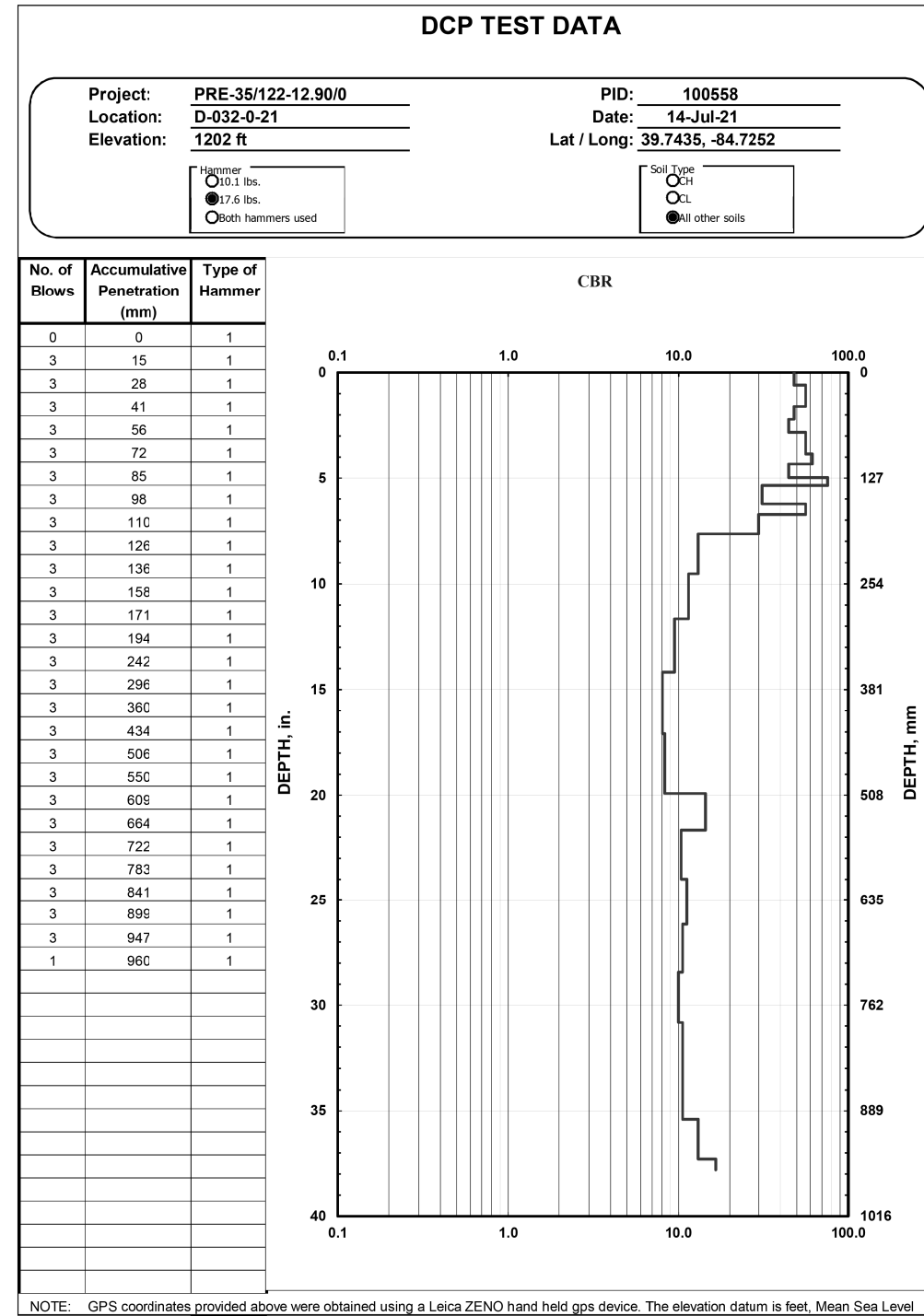
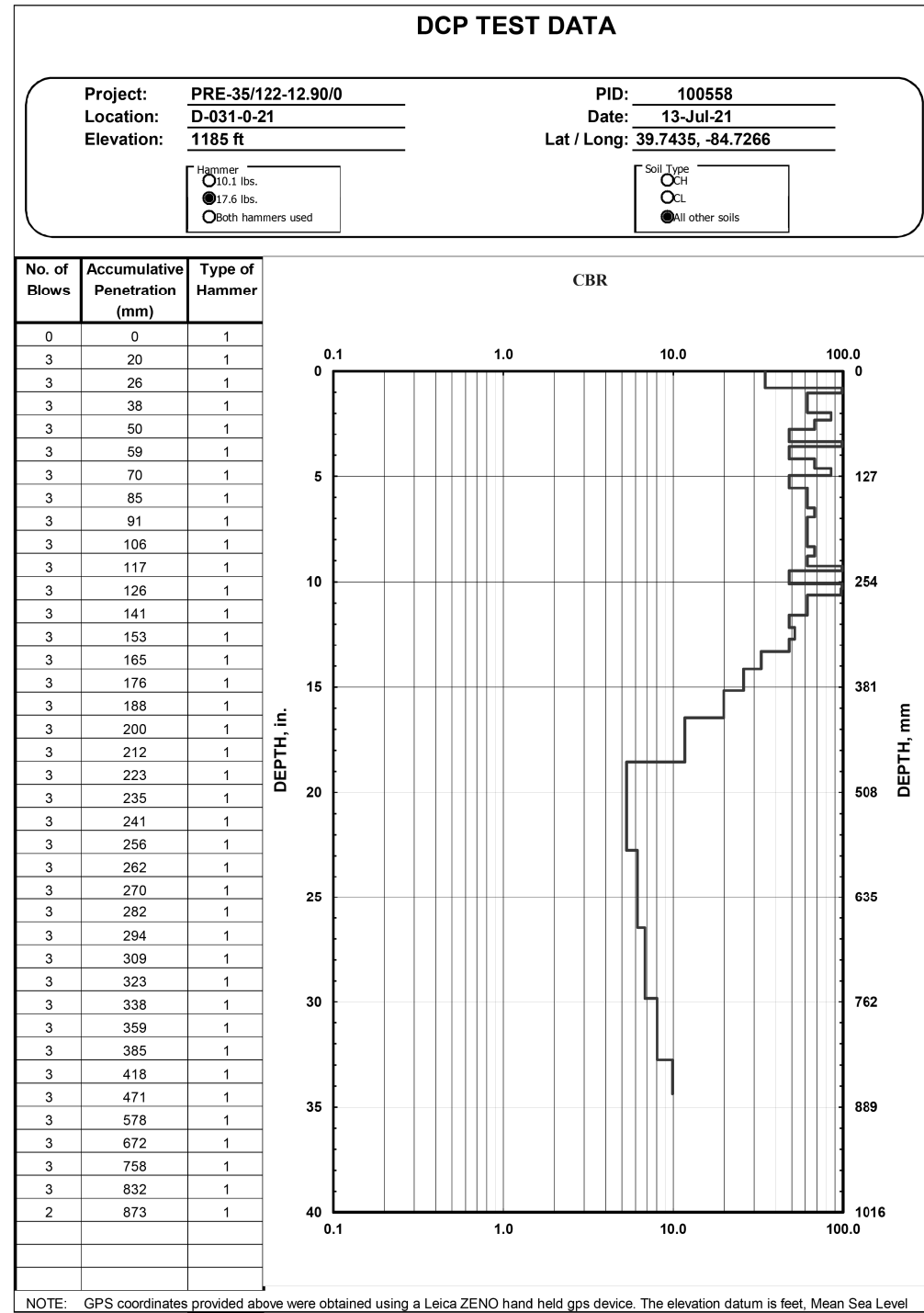


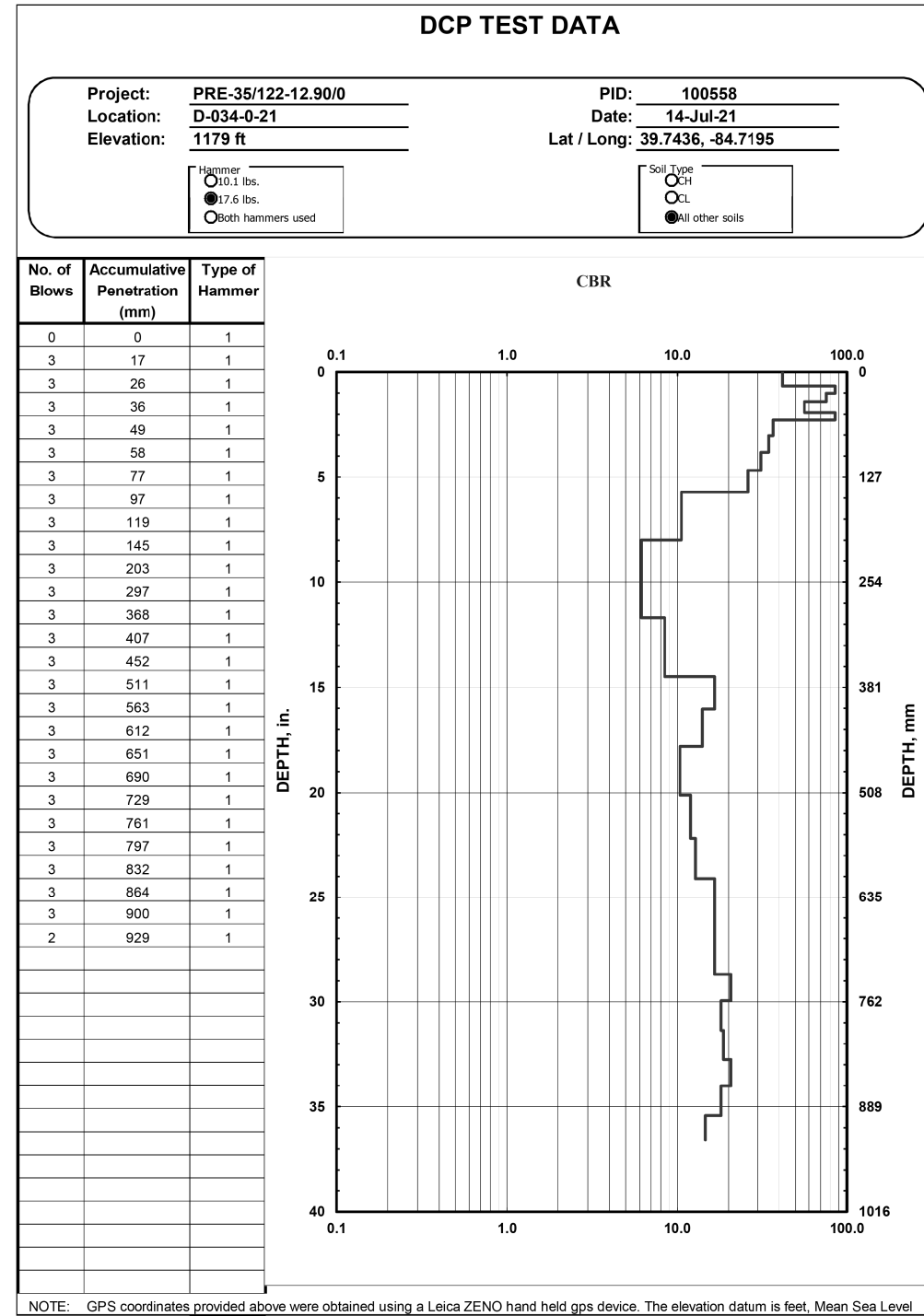
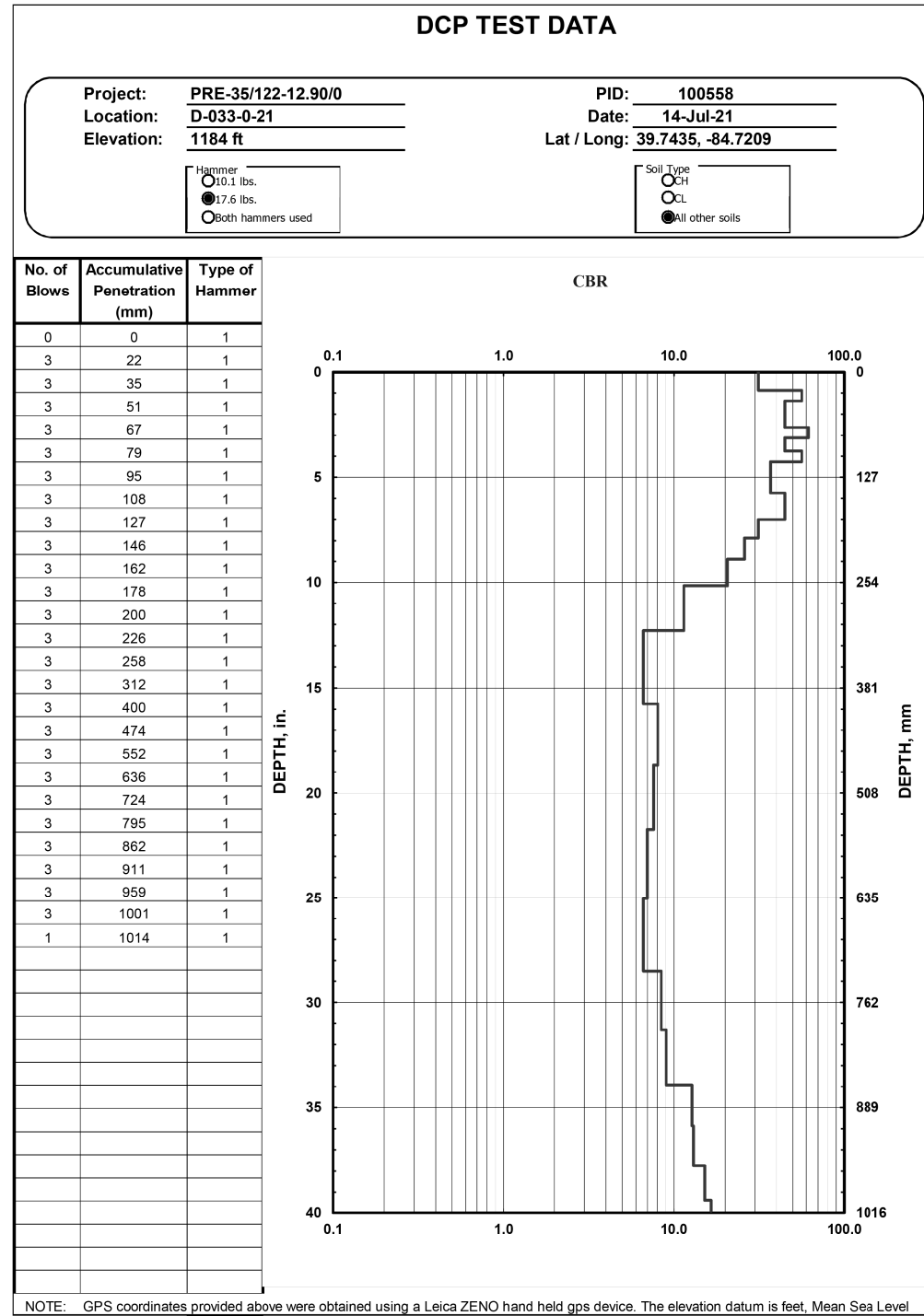
NOTE: GPS coordinates provided above were obtained using a Leica ZENO hand held gps device. The elevation datum is feet, Mean Sea Level

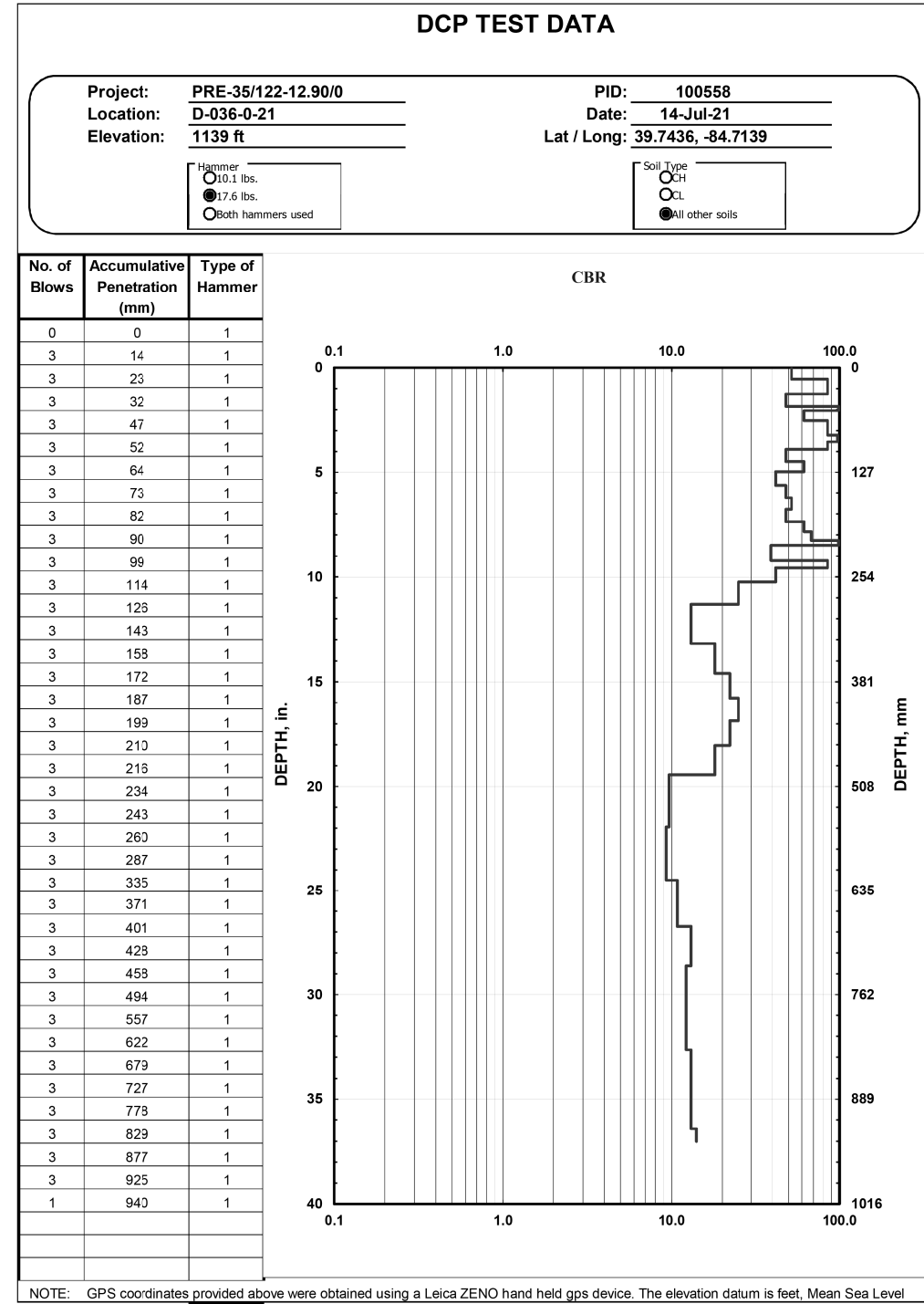
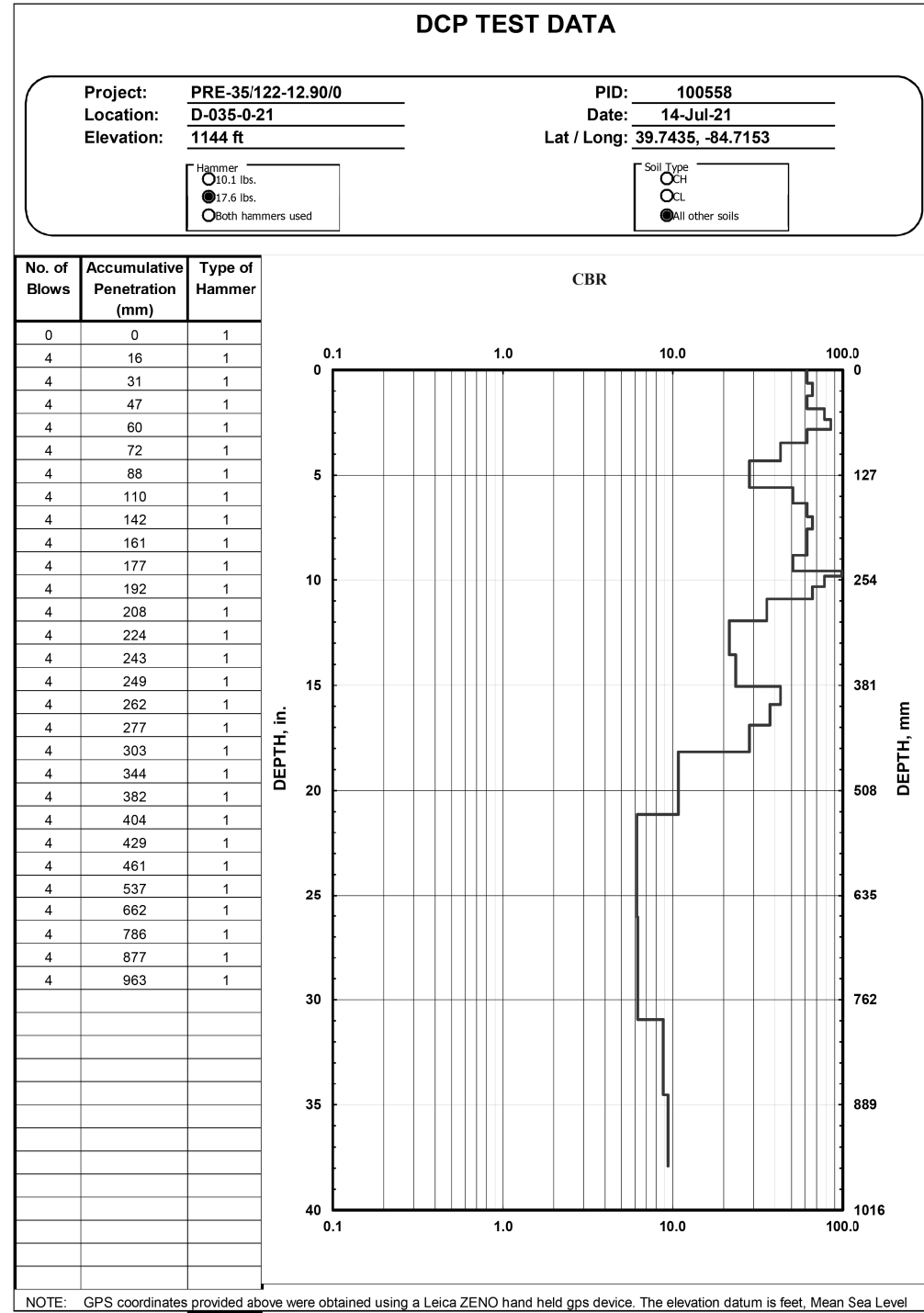


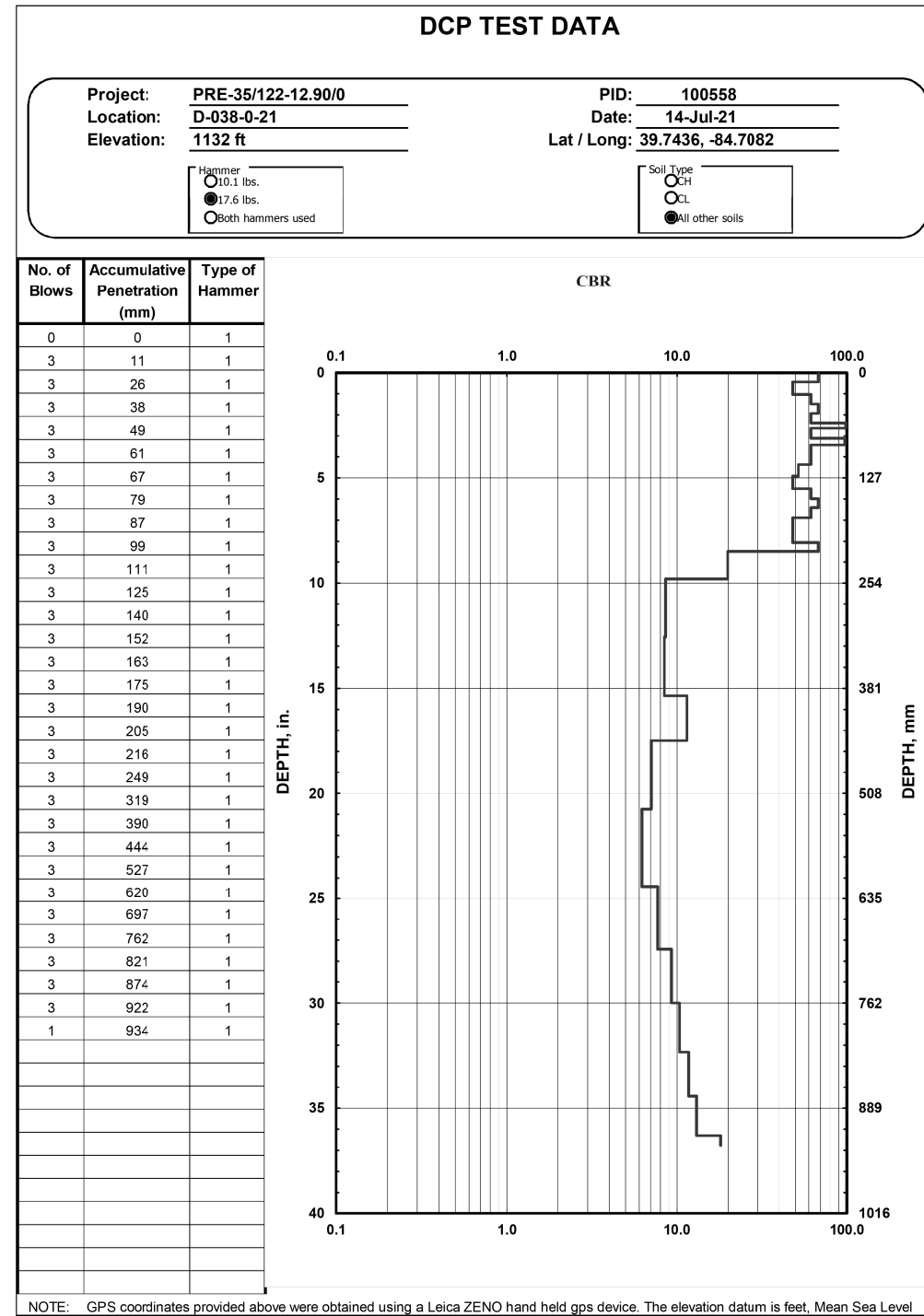
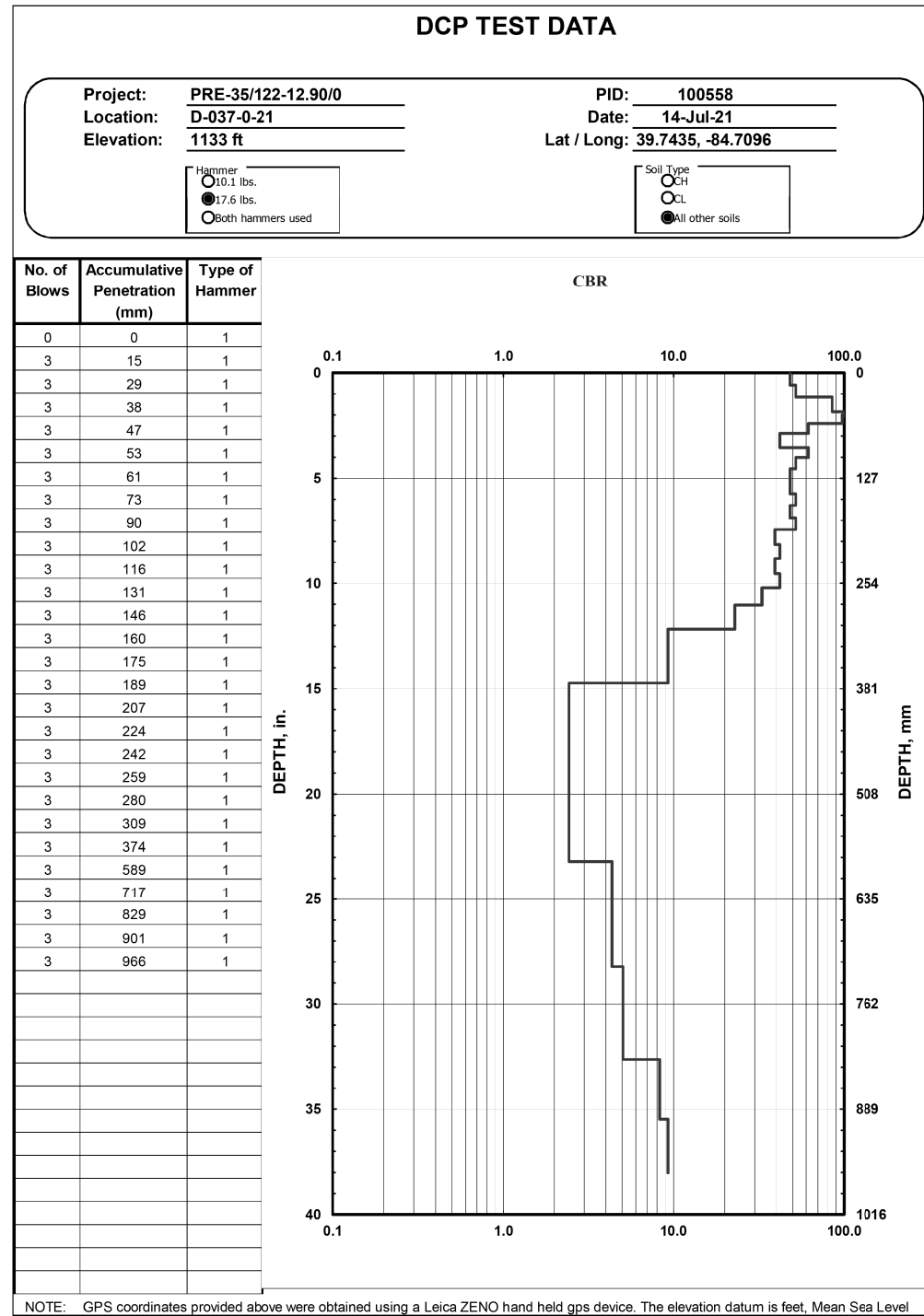


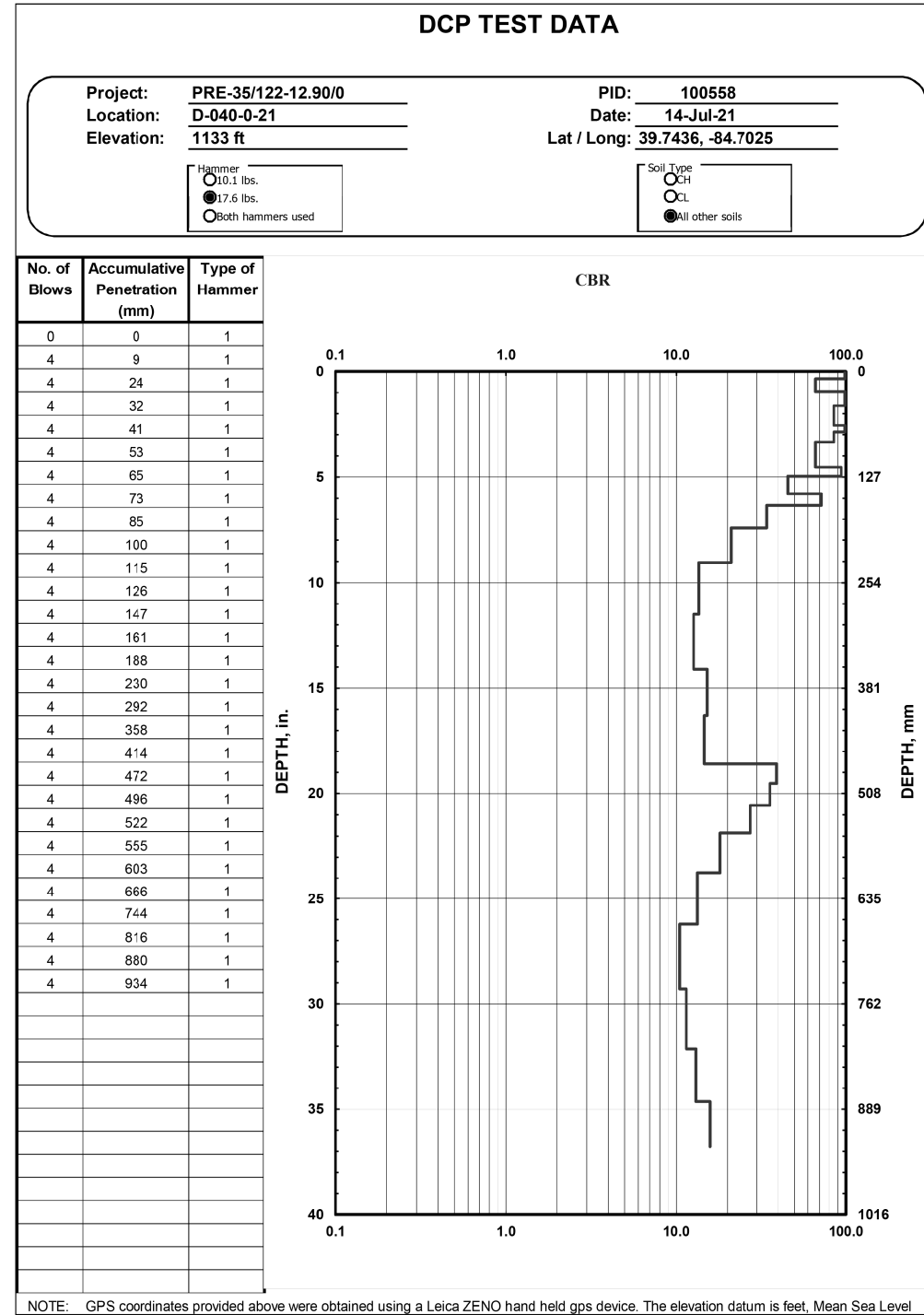
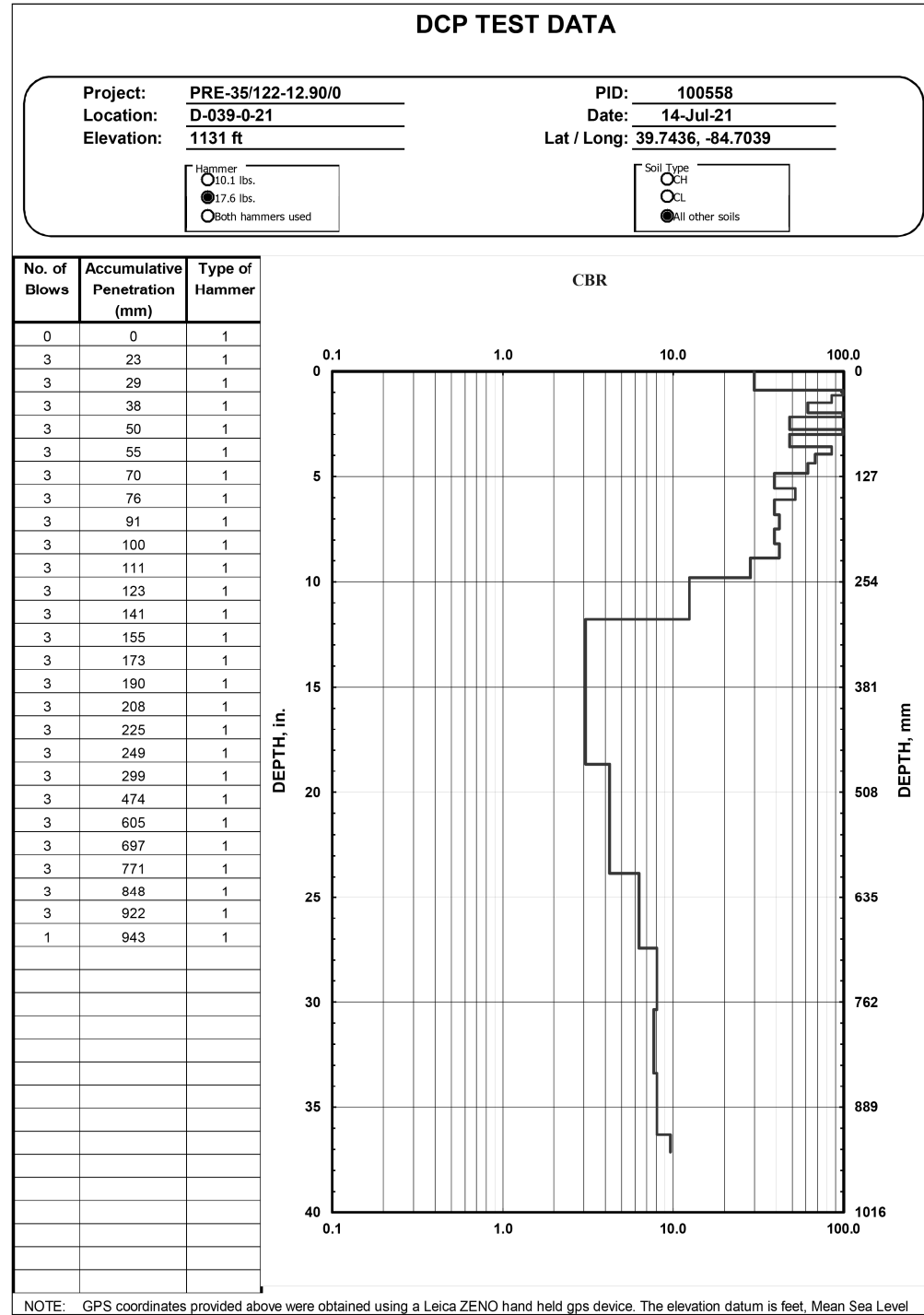


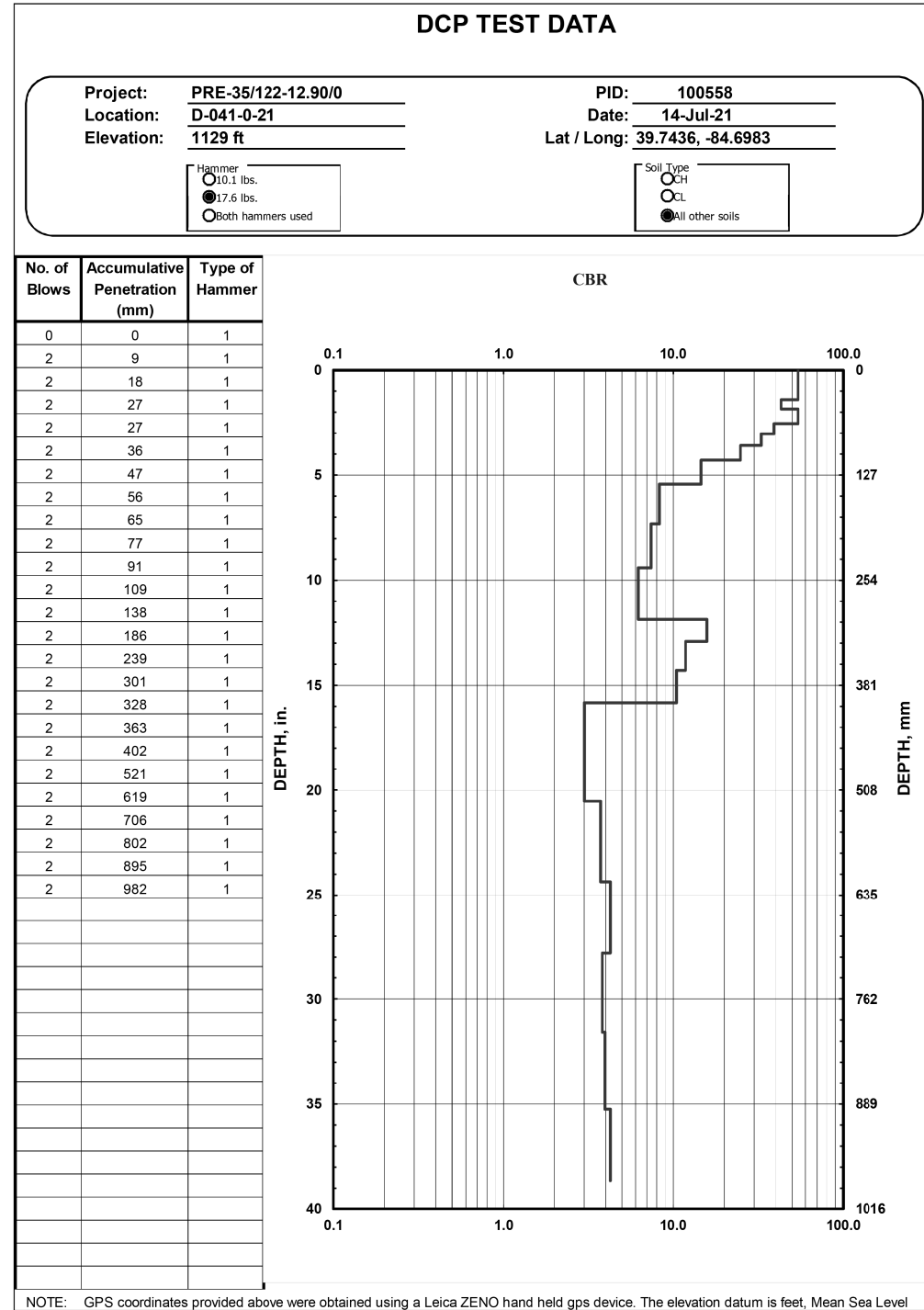




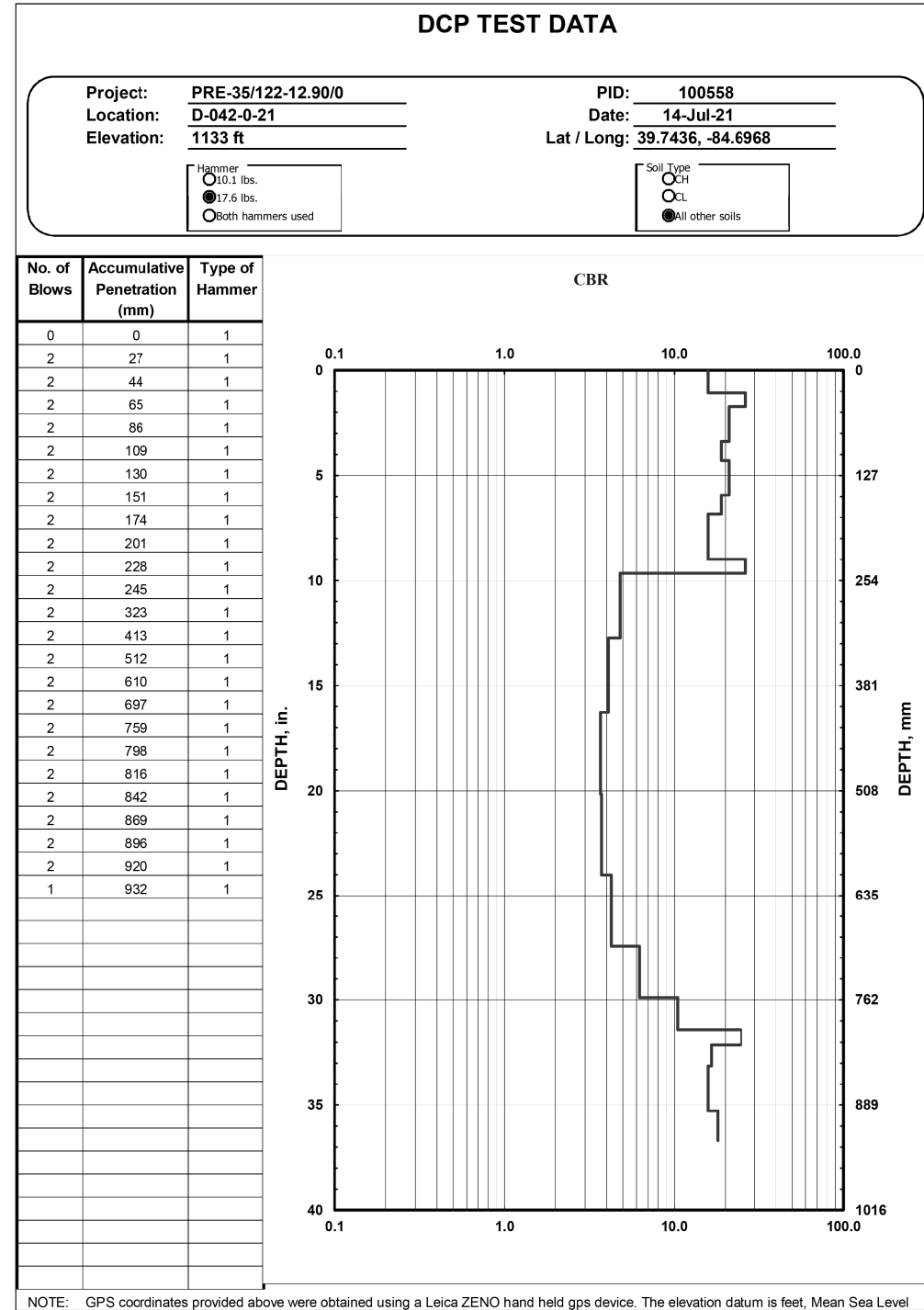


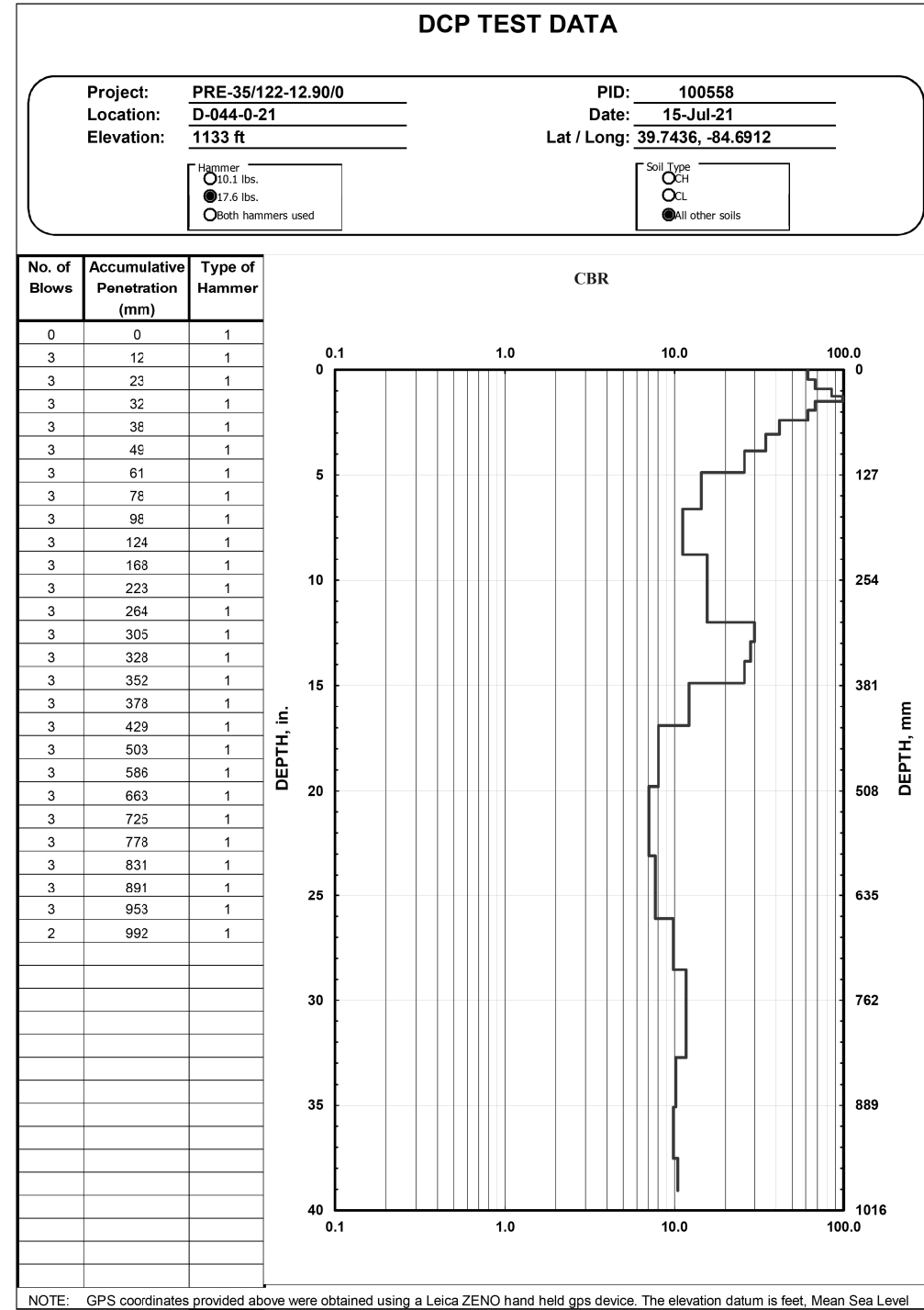
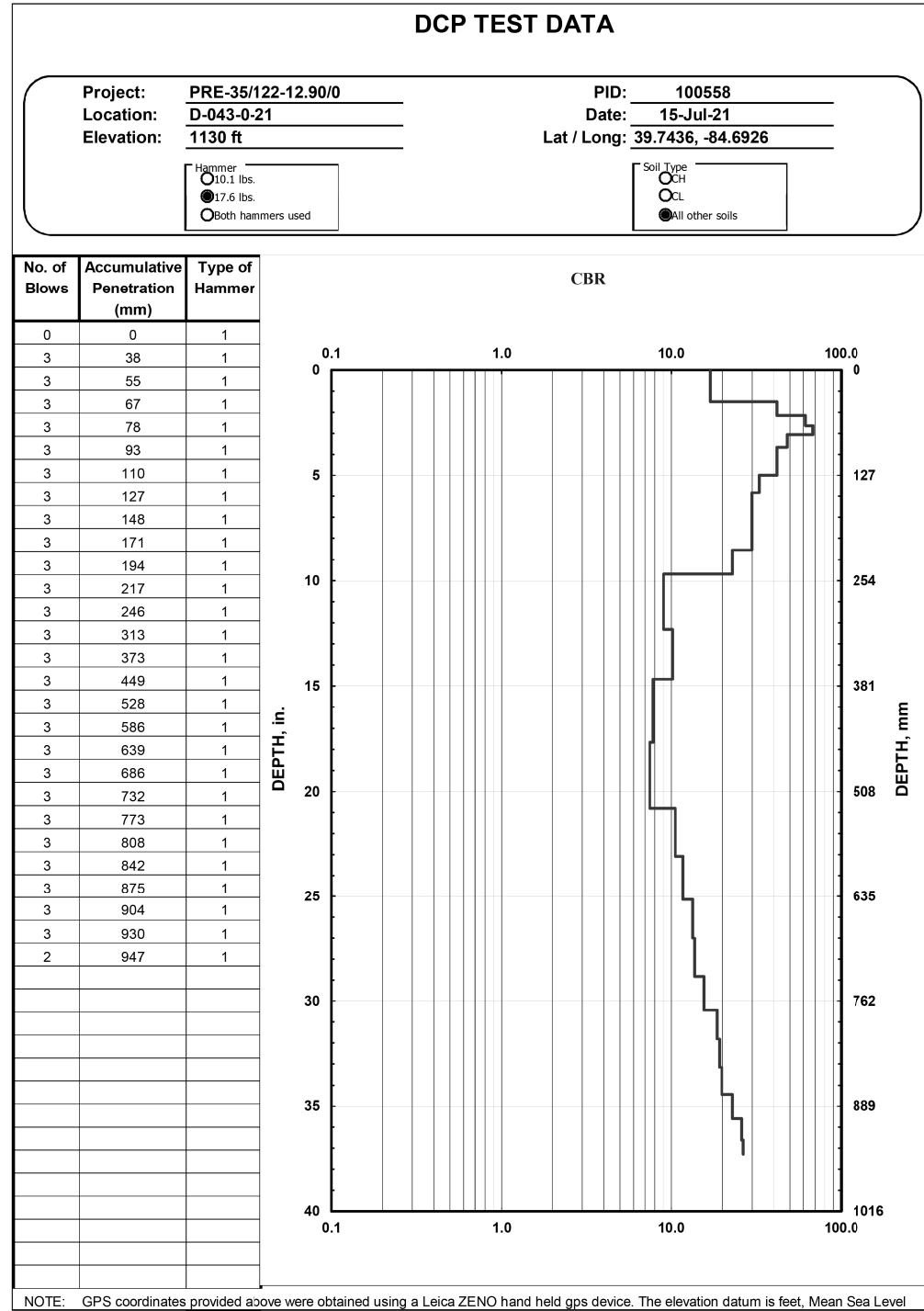


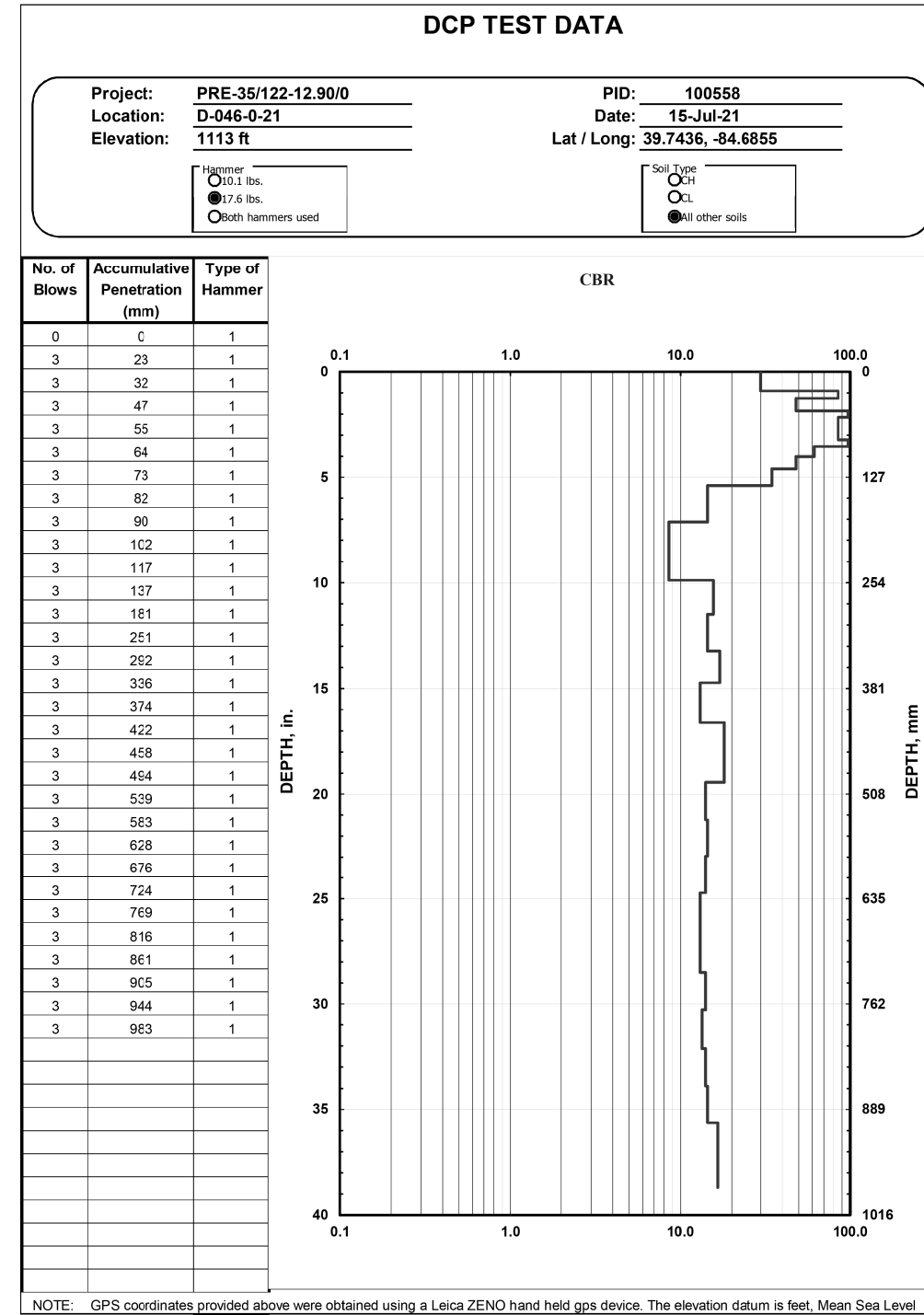
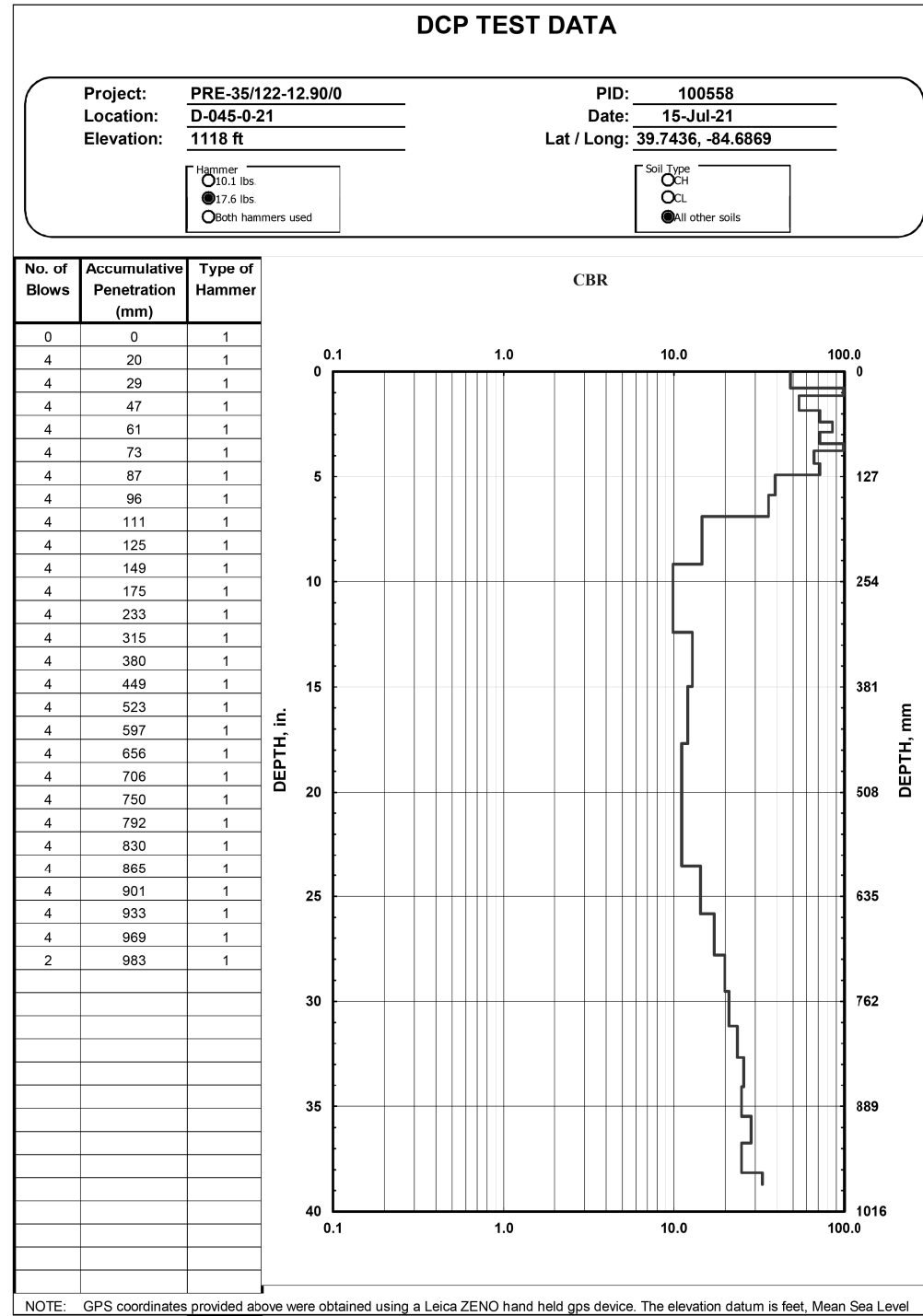




ou







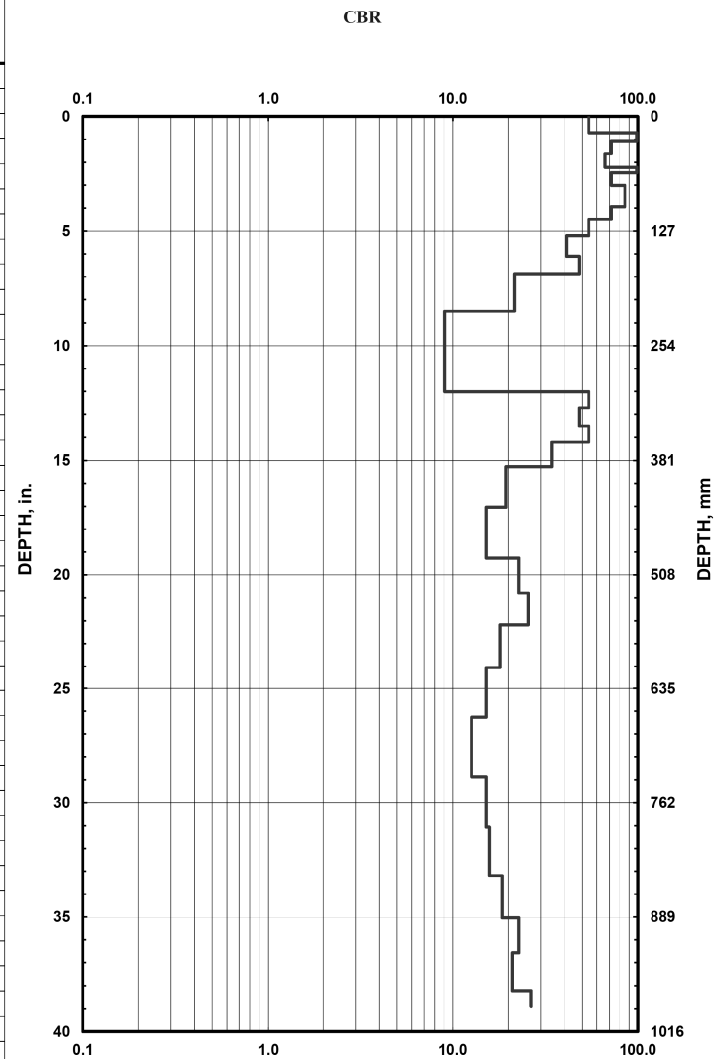
DCP TEST DATA

Project: PRE-35/122-12.90/0 PID: 100558
 Location: D-047-0-21 Date: 15-Jul-21
 Elevation: 1103 ft Lat / Long: 39.7436, -84.6813

Hammer
 10.1 lbs.
 17.6 lbs.
 Both hammers used

Soil Type
 CH
 CL
 All other soils

No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
4	18	1
4	27	1
4	41	1
4	56	1
4	62	1
4	76	1
4	88	1
4	100	1
4	114	1
4	132	1
4	155	1
4	175	1
4	216	1
4	305	1
4	323	1
4	343	1
4	361	1
4	388	1
4	433	1
4	489	1
4	528	1
4	563	1
4	611	1
4	667	1
4	733	1
4	789	1
4	843	1
4	890	1
4	929	1
4	971	1
2	988	1



NOTE: GPS coordinates provided above were obtained using a Leica ZENO hand held gps device. The elevation datum is feet, Mean Sea Level

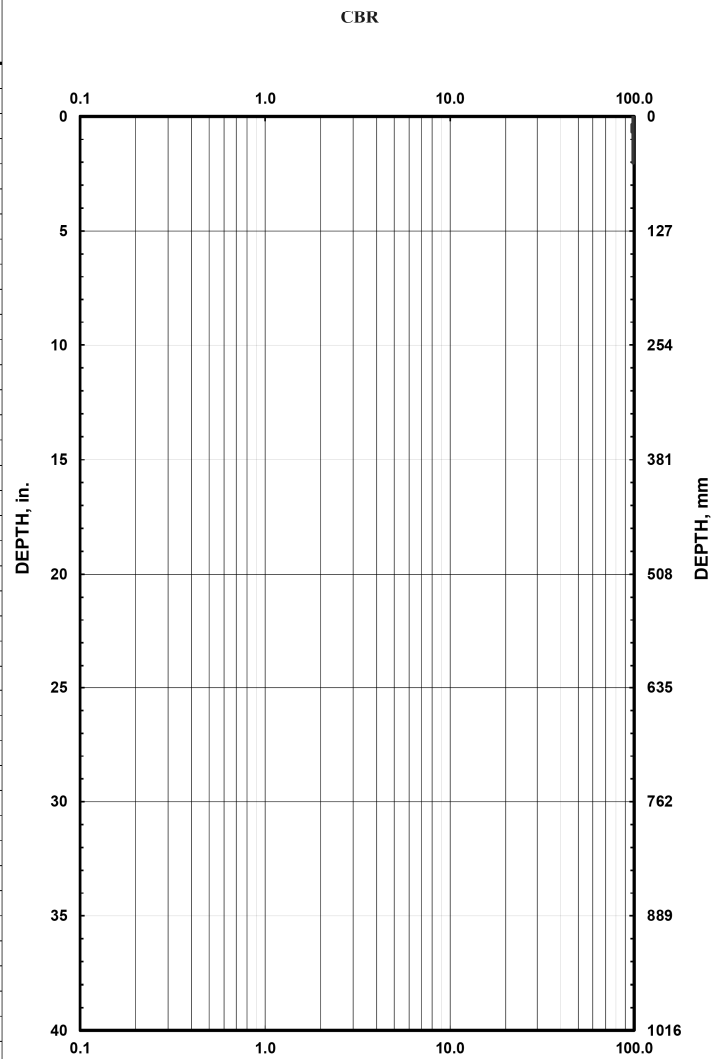
DCP TEST DATA

Project: PRE-35/122-12.90/0 PID: 100558
 Location: D-048-0-21 Date: 15-Jul-21
 Elevation: 1102 ft Lat / Long: 39.7437, -84.6799

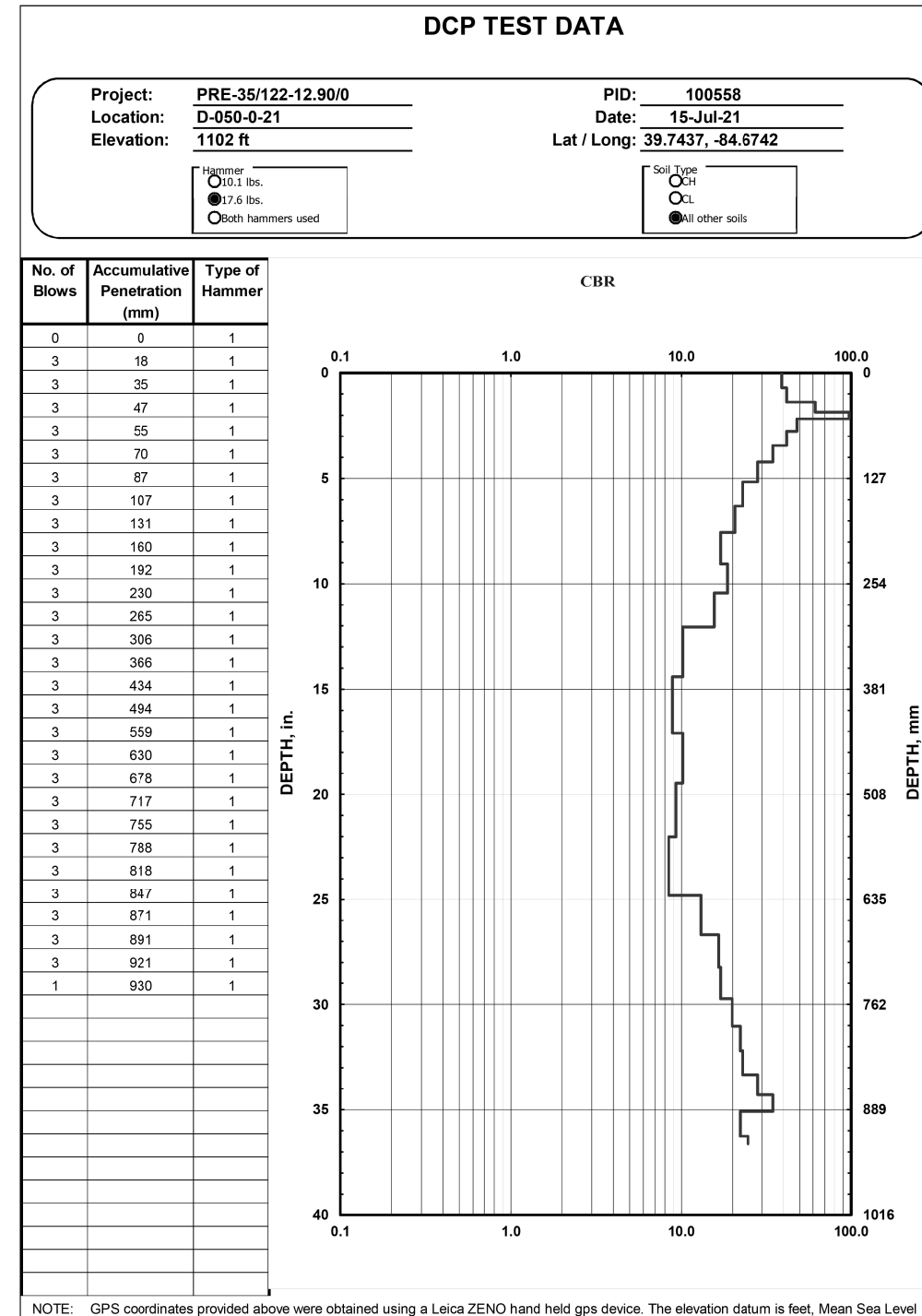
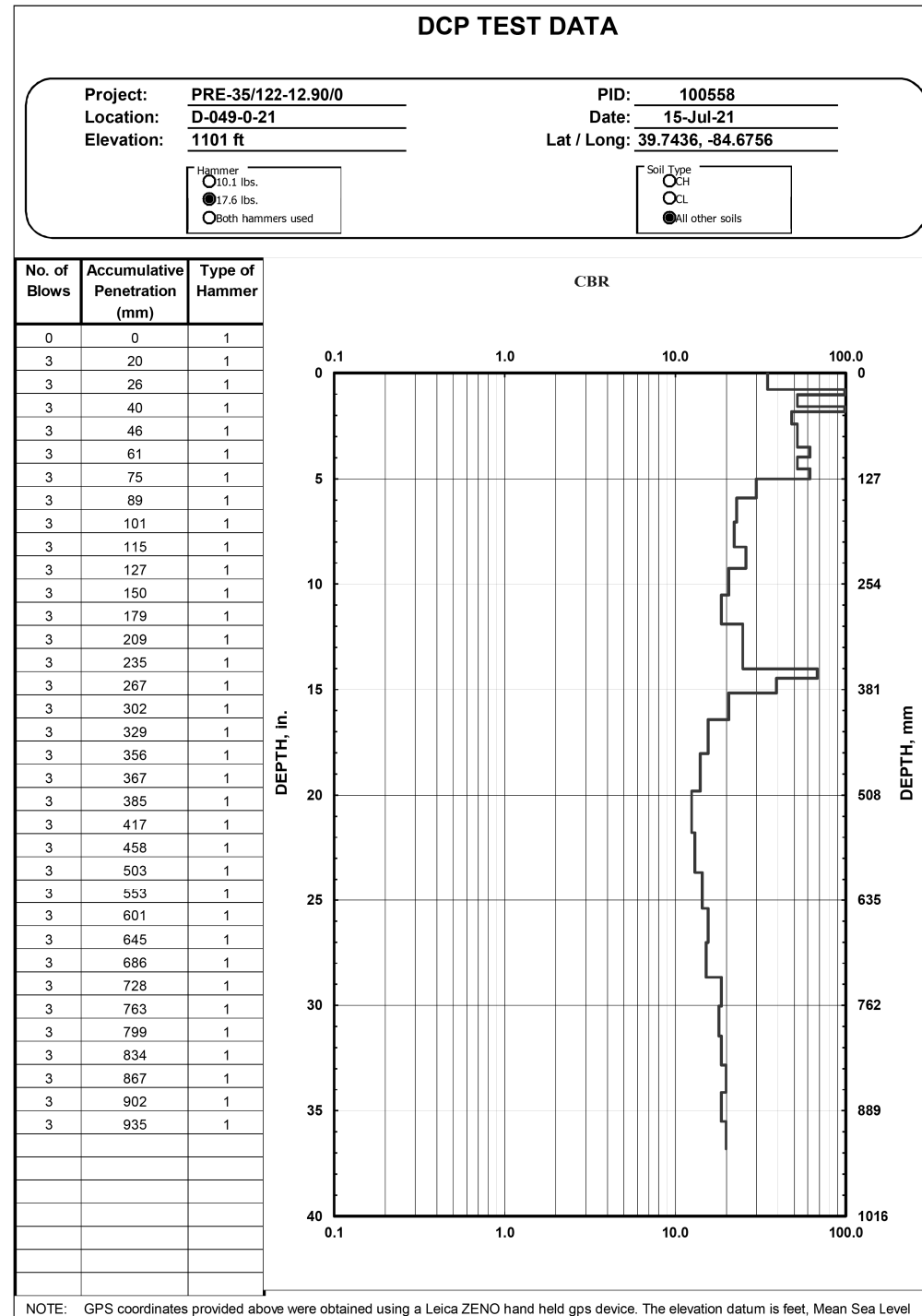
Hammer
 10.1 lbs.
 17.6 lbs.
 Both hammers used

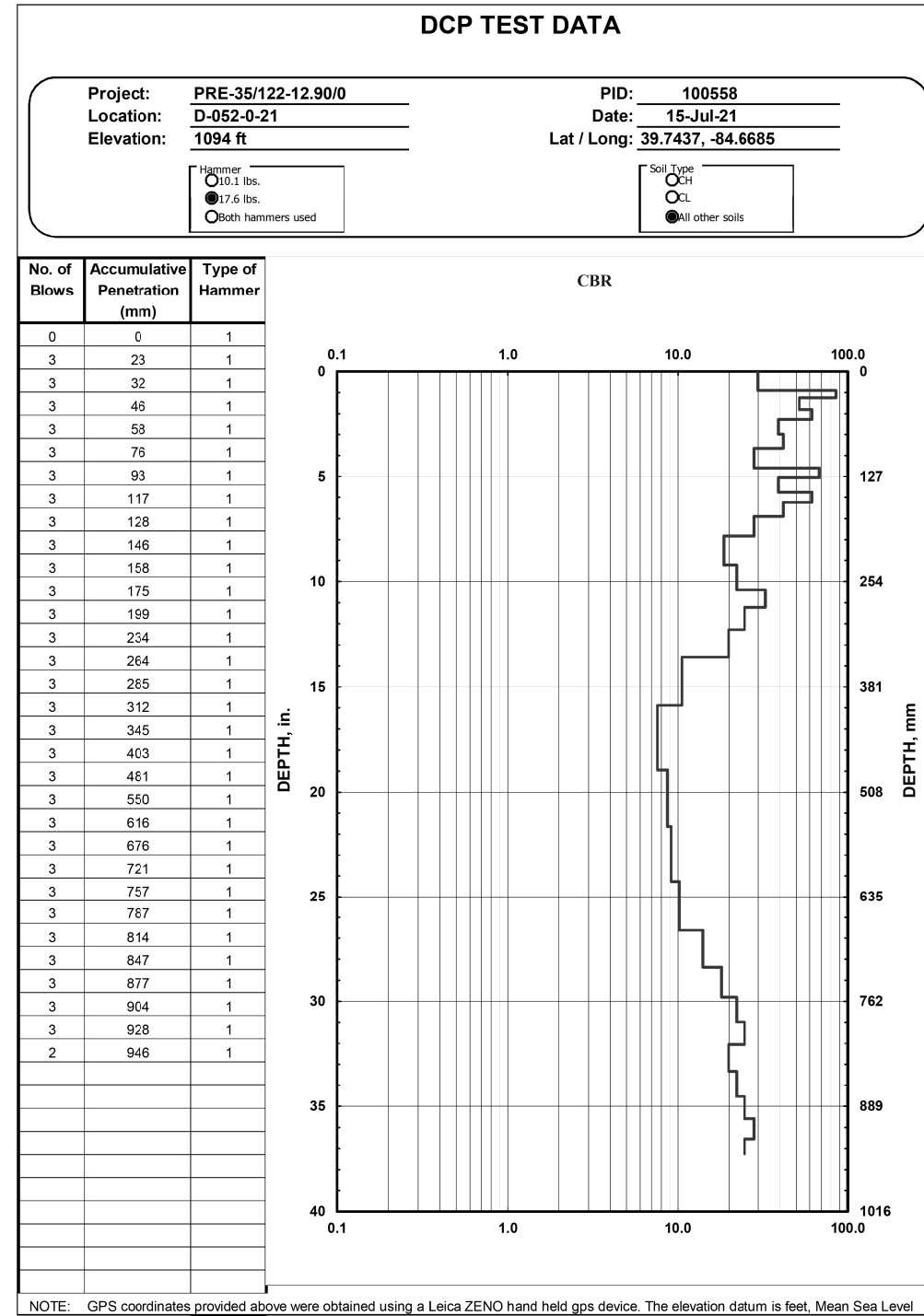
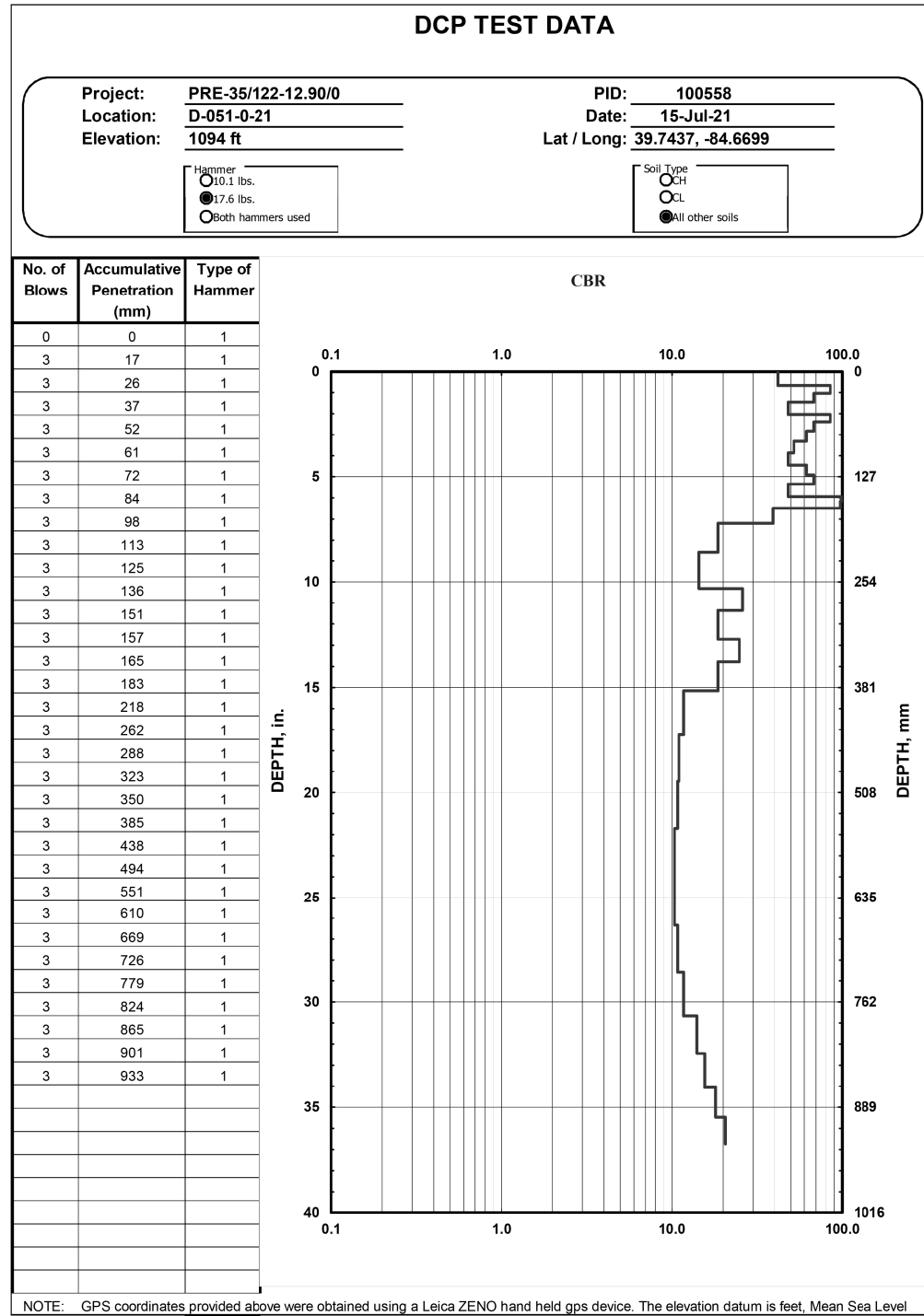
Soil Type
 CH
 CL
 All other soils

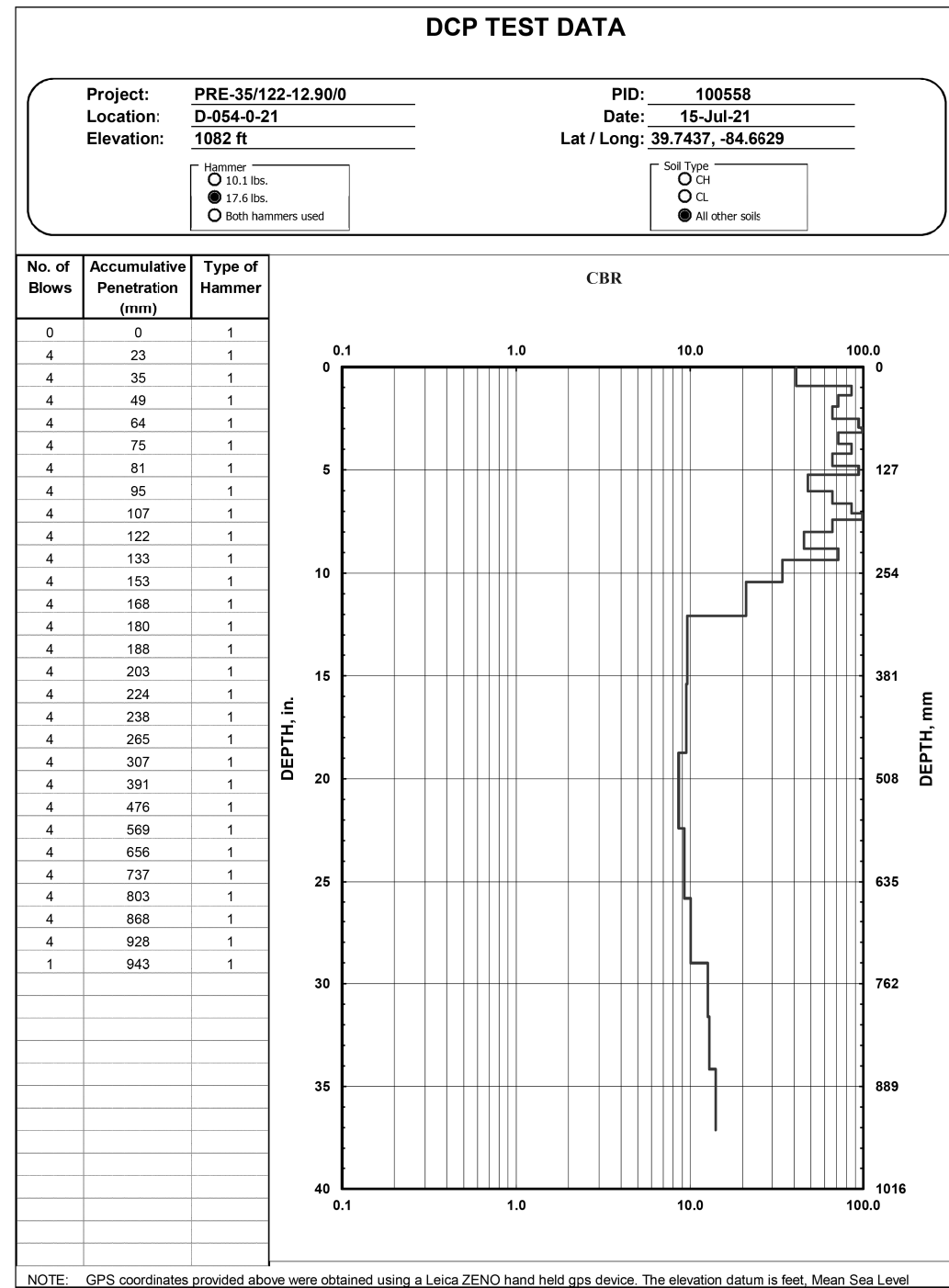
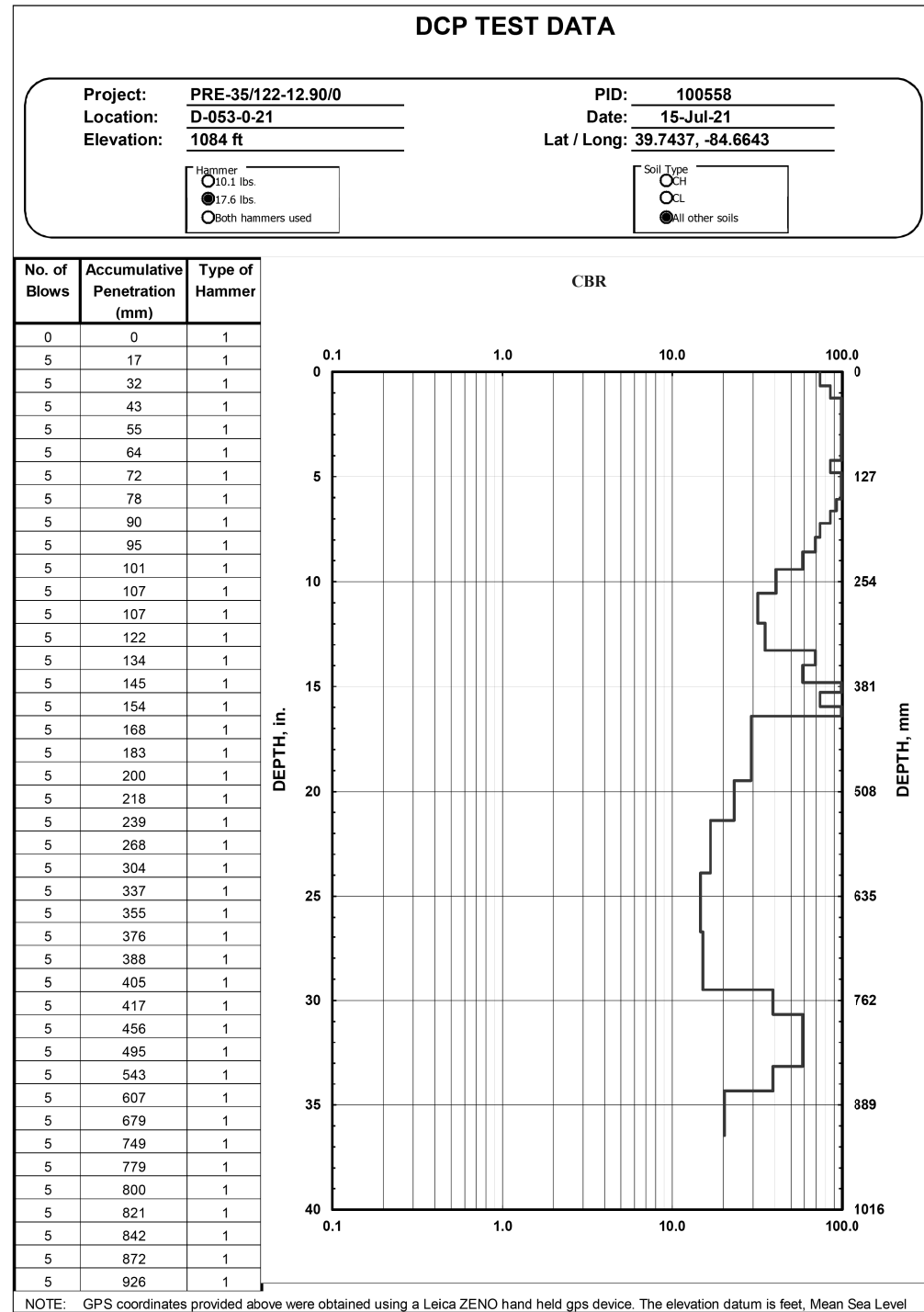
No. of Blows	Accumulative Penetration (mm)	Type of Hammer
0	0	1
7	9	1
3	17	1
3	23	1
3	29	1
3	35	1
2	38	1
3	43	1
3	49	1
2	52	1
2	35	1
	REFUSAL	



NOTE: GPS coordinates provided above were obtained using a Leica ZENO hand held gps device. The elevation datum is feet, Mean Sea Level







STATE OF OHIO DEPARTMENT OF TRANSPORTATION

PRE-35/122-13.12/0.00

VILLAGE OF WEST ALEXANDERIA JACKSON, TWIN, AND WASHINGTON TOWNSHIP, PREBLE COUNTY

FEDERAL PROJECT NUMBER

E150958

RAILROAD INVOLVEMENT

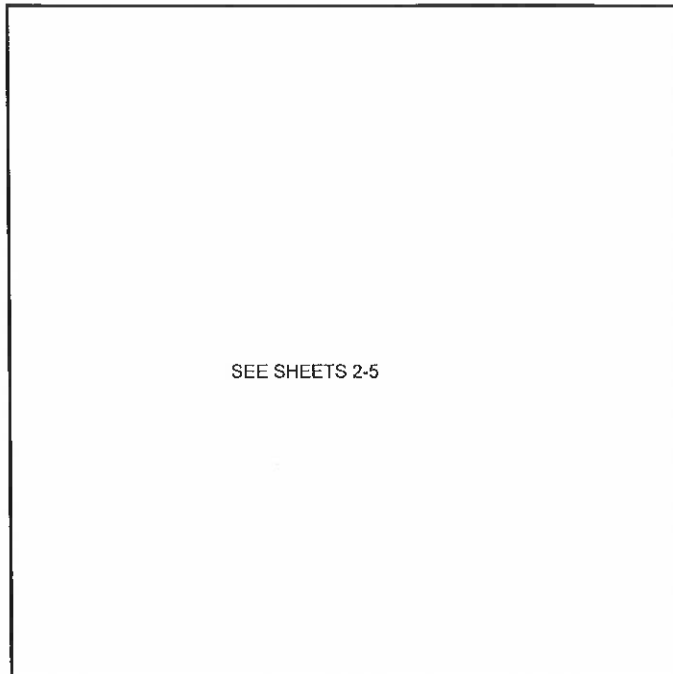
NONE

PROJECT DESCRIPTION

RESURFACING A PORTION OF US 35 AND SR 122 IN PREBLE COUNTY.
EDGE PAVEMENT REPLACEMENT ALONG SR 122.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 11.3 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 11.3 ACRES



LOCATION MAP

LATITUDE: 39°44'39" LONGITUDE: -84°38'29"



PORTION TO BE IMPROVED	=====
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	=====

DESIGN DESIGNATION	13.12-17.10	PRE-35 17.10-19.90	0-3.87	PRE-122 3.87-5.89	5.89-8.55
CURRENT ADT (2022)	7,100	6,100	1,200	1,200	1,600
DESIGN YEAR ADT (2034)	7,500	6,700	1,600	1,500	1,900
DESIGN HOURLY VOLUME (2034)	750	650	150	150	200
DIRECTIONAL DISTRIBUTION	52%	59%	55%	56%	51%
TRUCKS (24 HOUR B&C)	7.0%	7.0%	7.0%	7.0%	9.0%

DESIGN SPEED _____
LEGAL SPEED _____

DESIGN FUNCTIONAL CLASSIFICATION:

PRE-35 04 MINOR ARTERIAL (RURAL), PRE-122 05 MAJOR COLLECTOR (RURAL) S.L.M. 0.00-7.72
PRE-122 05 MAJOR COLLECTOR (URBAN) S.L.M. 7.72-8.20

NHS PROJECT _____ NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 8 ENGINEERING
505 S. STATE ROUTE 741
LEBANON, OHIO 45036

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ENGINEER'S SEAL:	STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
	BP-3.1	1/21/22	MT-101.90	7/17/20		
	BP-3.2	1/18/19	MT-105.10	1/17/20		
	BP-4.1	7/19/13				
	BP-5.1	1/21/22	TC-61.30	7/19/19		
	BP-7.1	7/17/20	TC-64.10	7/16/21		
			TC-65.10	1/17/14		
	MGS-1.1	7/16/21	TC-65.11	7/21/17		
	MGS-2.1	1/19/18	TC-71.10	7/16/21		
	MGS-4.3	1/18/13	TC-74.10	1/21/22		
	MGS-5.3	7/15/16				
	MT-95.60	4/19/19				
	MT-95.61	4/19/19				
	MT-97.12	1/20/17				
	MT-99.20	4/19/19				
	MT-101.60	1/17/20				

SIGNED:
DATE: 7-26-2022

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEARBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART TIME CLOSING TO TRAFFIC OF THE HIGHWAY AS NOTED ON SHEET 8 DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED
DATE 7-26-2022 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY	
DESIGNER	BCP
REVIEWER	
JDO	
PROJECT ID	100558
SHEET TOTAL	P.1 27

PRE-35/122/13.12/0.00

MODEL: Sheet PAPER: SIZE: 34x22 (in.) DATE: 7/26/2022 TIME: 8:33:59 AM USER: j.davis4
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MAINTENANCE OF TRAFFIC

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE OFFICE OF COMMUNICATIONS. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO OFFICE OF COMMUNICATIONS
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION		14 CALENDAR DAYS PRIOR TO IMPLEMENTATION
TRAFFIC PATTERN CHANGES		

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE.

INTERIM COMPLETION AND WORK WINDOW REQUIREMENTS

THE PROJECT HAS AN INTERIM COMPLETION DATE OF 10/15/2023. SEE TABLE FOR SPECIFIC REQUIREMENTS WHICH MUST BE COMPLETED ON OR BEFORE THE INTERIM COMPLETION DATE.

THE CONTRACT WILL BE SUBJECT TO DAILY DISINCENTIVES FOR FAILURE TO COMPLETE ALL THE REQUIRED WORK, AND ASSOCIATED INCIDENTALS RELATED TO THE WORK, AS OUTLINED IN THE TABLE INCLUDED IN THIS NOTE. APPLICATION OF THE DISINCENTIVES WILL BE BASED ON THE OVERALL CONTRACT AMOUNT. DAILY DISINCENTIVES ARE APPLICABLE TO THE WORK REQUIRED TO THE INTERIM COMPLETION DATE ONLY. THE CONTRACT IS STILL SUBJECT TO LIQUIDATED DAMAGES AS OUTLINED IN CMS 108.07 FOR THE REMAINDER OF THE CONTRACT.

DESCRIPTION OF CRITICAL WORK	DISINCENTIVE \$ PER DAY	WORK WINDOW	
		START	END
PRE-US 35 13.12-19.90 ALL WORK	\$3,900	4/1/23	10/15/23
PRE-SR 122 FULL DEPTH REPLACEMENT ON SR 122 BETWEEN S.L.M. 0.00 TO 1.8 (SECTION 1).	\$920	6/20/23	10/15/23
PRE-SR 122 ALL WORK ON SR 122 BETWEEN S.L.M. 1.8 TO 8.19 (SECTION 2,3,AND 4).	PER C&MS 108.07	6/20/23	8/15/24

ITEM 614 MAINTAINING TRAFFIC.

IN THE RESURFACING AREAS, A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT ONE LANE OF TWO-WAY TRAFFIC MAY BE MAINTAINED DURING WORKING HOURS, BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

IN THE FULL DEPTH REPLACEMENT AREAS:

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT ONE LANE OF EASTBOUND TRAFFIC MAY BE MAINTAINED AND ONE LANE OF WESTBOUND TRAFFIC MAY BE CLOSED USING A DIRECTIONAL CLOSURE SHOWN ON SHEET 8 BETWEEN APRIL 15 AND OCTOBER 15, BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

BY THE END OF THE WORK DAY, THE OPEN TRENCH SHALL BE BACKFILLED TO COMPLY WITH MT-101.90 USING DRUMS TO PROTECT THE DROP OFF.

FULL DEPTH REPLACEMENT WORK WILL BE BROKE DOWN INTO SECTIONS.

SECTION 1 WILL BE FROM 0.00 SLM- 1.83 SLM (WOLVERTON RD)
 SECTION 2 WILL BE FROM 1.83 SLM (WOLVERTON RD)- 3.87 SLM (DAILY RD)
 SECTION 3 WILL BE FROM 3.87 SLM (DAILY RD) - 5.89 SLM (TOBY RD)
 SECTION 4 WILL BE FROM 5.89 (TOBY RD) - 8.19 SLM (EATON CORP LIMIT)

ADJACENT SECTIONS (1 AND 2, 2 AND 3, 3 AND 4) SHALL NOT BE CONSTRUCTED AT THE SAME TIME. ONCE ANY WORK HAS STARTED ON A SECTION THEN THAT SECTION MUST HAVE ALL WORK COMPLETED BY THE END OF THE SAME CONSTRUCTION SEASON. WORK CANNOT BEGIN ON SR 122 UNTIL 6/30/2023.

RESURFACING AREAS ONLY NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- | | |
|----------------|--------------------|
| EASTER | THANKSGIVING |
| MEMORIAL DAY | CHRISTMAS |
| FOURTH OF JULY | NEW YEARS |
| LABOR DAY | SOLAR ECLIPSE 2024 |

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY	6:00 AM WEDNESDAY THROUGH (THANKSGIVING ONLY) 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$70 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE
 ITEM DURATION SIGN DISPLAYED
 OF CLOSURE TO PUBLIC

RAMP & >=2 WEEKS 14 CALENDAR DAYS
 PRIOR TO CLOSURE

ROAD > 12 HOURS 7 CALENDAR DAYS
 & < 2 WEEKS PRIOR TO CLOSURE

CLOSURES <= 12 HOURS 2 BUSINESS DAYS
 PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ITEM 614- WORK ZONE MARKINGS

THE CONTRACTOR SHALL PLACE WORK ZONE PAVEMENT MARKINGS UPON COMPLETION OF THE ASPHALT SURFACE COURSE ON US 35 AND ASPHALT INTERMEDIATE COURSE ON SR 122 PRIOR TO OPENING THE ROADWAY TO TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

SR 35 WORK ZONE MARKINGS FOR SURFACE PAVEMENT

ITEM 614-WORK ZONE CENTER LINE, CLASS III, 642 PAINT - 6.78 MILES
 ITEM 614-WORK ZONE EDGE LINE, CLASS III, 642 PAINT - 12.1 MILES
 ITEM 614-WORK ZONE STOP LINE, CLASS III, 642 PAINT - 95 FEET

SR 122 WORK ZONE MARKINGS FOR EDGE PAVEMENT REPAIR

ITEM 614-WORK ZONE EDGE LINE, CLASS I, 642 PAINT - 16.42 MILES
 ITEM 614-WORK ZONE CENTER LINE, CLASS I, 642 PAINT - 8.21 MILES

SR 122 WORK ZONE MARKINGS FOR SURFACE PAVEMENT

ITEM 614-WORK ZONE CENTER LINE, CLASS III, 642 PAINT - 8.21 MILES
 ITEM 614-WORK ZONE EDGE LINE, CLASS III, 642 PAINT - 16.42 MILES

DESIGN AGENCY



DESIGNER

JED

REVIEWER

JDO

PROJECT ID

100558

SHEET TOTAL

P.6 | 15

