PROJECT: 44691
REFERENCE: R-5759

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5759	1	

SEE SHEET 2A FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

ROADWAY SUBSURFACE INVESTIGATION

COUNTY *WILKES*

PROJECT DESCRIPTION *WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET*

INVENTORY

CONTENTS

LINE	STATION	PLAN
-L-	9+85 - 178+44	4 - 18
-Y1-	10+00 - 13+36	5
-Y2-	10+00 - 25+92	19, 5
-Y3-	10+50 - 15+00	6
-Y4-	10+00 - 14+75	6
-Y5-	10+00 - 11+50	7
-Y6_REV-	15+00 - 18+50	8
-Y7-	10+00 - 14+75	9
-Y8-	10+00 - 12+25	10
-Y9-	12+25 - 15+00	11
-Y10-	10+25 - 17+00	12
-Y11-	10+00 - 15+50	11 - 12
-Y12-	10+00 - 12+50	13
-Y13-	10+00 - 12+25	14
-Y14-	10+09 - 17+26	14 - 15
-Y15-	10+00 - 14+25	15
-LPB-	10+90 - 13+12	4
-RPB-	15+20 - 17+88	4
-LPD-	11+25 - 14+14	5
-RPD-	11+50 - 15+11	5
-C1-	10+00 - 15+50	4
-C2-	10+00 - 15+50	5
-C3-	10+00 - 15+50	6 - 7
-C4-	10+00 - 14+71	11 - 12
-DRW1-	10+00 - 12+25	4
-DRW2-	10+00 - 11+52	5
-DRW4_REV-	10+00 - 11+84	8
-DRW5-	10+15 - 12+00	10
-DRW6-	10+00 - 12+00	10
-DRW7-	10+25 - 12+04	13
-DRW8-	10+75 - 13+50	10
-DRW9-	10+00 - 12+25	12
-DRW10-	10+15 - 11+29	13

CROSS SECTIONS

LINE	STATION	SHEETS
-L-	9+00 - 177+50	19 - 170
-Y1-	10+50 - 13+25	171 - 174
-Y2-	15+00 - 25+00	175 - 178
-Y3-	11+50 - 13+75	179
-Y4-	10+75 - 13+00	180 - 185
-Y5-	10+75	186
-Y6_REV-	14+75 - 18+00	187 - 194
-Y7-	12+50	195
-Y8-	10+50 - 12+00	196
-Y9-	13+00 - 14+25	197
-Y10-	10+00 - 16+50	198 - 204
-Y11-	11+25 - 14+50	205 - 211
-Y12-	10+25 - 12+50	212 - 218
-Y13-	10+50 - 12+00	219 - 222
-Y14-	12+75 - 16+50	223 - 232
-Y15-	10+75	233
-LPB-	10+50 - 12+25	234 - 236
-RPB-	15+25 - 17+00	237 - 240
-LPD-	11+00 - 14+00	241 - 245
-RPD-	11+75 - 15+00	246 - 251
-C1-	10+00 - 15+49.77	252 - 262
-C2-	10+00 - 15+49.75	263 - 269
-C3-	12+75	270 - 271
-C4-	10+00 - 13+25	272 - 275
-DRW1-	10+25 - 12+25	276 - 279
-DRW2-	10+25 - 11+25	280
-DRW4_REV-	10+00 - 11+75	281 - 284
-DRW5-	10+50 - 11+25	285 - 286
-DRW6-	10+75 - 11+50	287
-DRW7-	10+50 - 11+50	288
-DRW8-	11+25 - 12+75	289
-DRW9-	11+25	290
-DRW10-	10+75	291

APPENDICES

APPENDIX	TITLE	SHEETS
A	LABORATORY TEST RESULTS	293 - 313
B	ADDITIONAL BORING LOGS	315

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

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NOTES:

1. THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
2. BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

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9/9/2024
DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
R-5759	2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION

SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T 206, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE,
VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤ 35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5, A-7-6			
SYMBOL	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▨	▤	▨
% PASSING #10 #40 #200	50 MX 30 MX 15 MX	50 MX 25 MX	51 MN 10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN	GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
MATERIAL PASSING #40 LL PI	— 6 MX		— NP	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
GROUP INDEX	0		0	0		4 MX		8 MX	12 MX	16 MX	NO MX			
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL, AND SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS				
GEN. RATING AS SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR				FAIR TO POOR	POOR	UNSUITABLE

PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTENCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TONS/FT^2)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE	< 4	N/A
	LOOSE	4 TO 10	
	MEDIUM DENSE	10 TO 30	
	DENSE	30 TO 50	
	VERY DENSE	> 50	
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT	< 2	< 0.25
	SOFT	2 TO 4	0.25 TO 0.5
	MEDIUM STIFF	4 TO 8	0.5 TO 1.0
	STIFF	8 TO 15	1 TO 2
	VERY STIFF	15 TO 30	2 TO 4
	HARD	> 30	> 4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	2.00	0.42	0.25	0.075	0.053

BOULDER (BLDR.)	COBBLE (COB.)	GRAVEL (GR.)	COARSE SAND (CSE. SD.)	FINE SAND (F SD.)	SILT (SL.)	CLAY (CL.)

GRAIN SIZE							
MM	305	75	2.0	0.25	0.05	0.005
IN.	12	3				

SOIL MOISTURE - CORRELATION OF TERMS

SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION
	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE
LL — LIQUID LIMIT PLASTIC RANGE (PI)	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
PL — PLASTIC LIMIT	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
OM — OPTIMUM MOISTURE SL — SHRINKAGE LIMIT	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NON PLASTIC	0-5	VERY LOW
SLIGHTLY PLASTIC	6-15	SLIGHT
MODERATELY PLASTIC	16-25	MEDIUM
HIGHLY PLASTIC	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.
UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE.
GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.

ANGULARITY OF GRAINS

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.

MINERALOGICAL COMPOSITION

MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE	LL < 31
MODERATELY COMPRESSIBLE	LL = 31 - 50
HIGHLY COMPRESSIBLE	LL > 50

PERCENTAGE OF MATERIAL

ORGANIC MATERIAL	GRANULAR SOILS	SILT - CLAY SOILS	OTHER MATERIAL	
TRACE OF ORGANIC MATTER	2 - 3%	3 - 5%	TRACE	1 - 10%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%	LITTLE	10 - 20%
MODERATELY ORGANIC	5 - 10%	12 - 20%	SOME	20 - 35%
HIGHLY ORGANIC	> 10%	> 20%	HIGHLY	35% AND ABOVE

GROUND WATER

▽	WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING
▼	STATIC WATER LEVEL AFTER 24 HOURS
▽PW	PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA
○~	SPRING OR SEEP

MISCELLANEOUS SYMBOLS

▯	ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION	25/025 →	DIP & DIP DIRECTION OF ROCK STRUCTURES		
	SOIL SYMBOL	◐ SPT DPT DMT VST PMT	TEST BORING	⬡	SLOPE INDICATOR INSTALLATION
☒	ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT	⊕	AUGER BORING	◬	CONE PENETROMETER TEST
— —	INFERRED SOIL BOUNDARY	⌖	CORE BORING	●	SOUNDING ROD
═ ═	INFERRED ROCK LINE	MW ○	MONITORING WELL	◐	TEST BORING WITH CORE
▾▾▾	ALLUVIAL SOIL BOUNDARY	△	PIEZOMETER INSTALLATION	⬭	SPT N-VALUE

RECOMMENDATION SYMBOLS

☒	UNDERCUT	▨	UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE	▦	UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3 FEET OF EMBANKMENT OR BACKFILL
■	SHALLOW UNDERCUT	▧	UNCLASSIFIED EXCAVATION - ACCEPTABLE DEGRADABLE ROCK		

ABBREVIATIONS

AR - AUGER REFUSAL
BT - BORING TERMINATED
CL. - CLAY
CPT - CONE PENETRATION TEST
CSE. - COARSE
DMT - DILATOMETER TEST
DPT - DYNAMIC PENETRATION TEST
e - VOID RATIO
F - FINE
FOSS. - FOSSILIFEROUS
FRAC. - FRACTURED, FRACTURES
FRAGS. - FRAGMENTS
HI. - HIGHLY
MED. - MEDIUM
MICA. - MICACEOUS
MOD. - MODERATELY
NP - NON PLASTIC
ORG. - ORGANIC
PMT - PRESSUREMETER TEST
SAP. - SAPROLITIC
SD. - SAND, SANDY
SL. - SILT, SILTY
SLI. - SLIGHTLY
TCR - TRICONE REFUSAL
w - MOISTURE CONTENT
V - VERY
VST - VANE SHEAR TEST
WEA. - WEATHERED
γ - UNIT WEIGHT
γ_d - DRY UNIT WEIGHT

SAMPLE ABBREVIATIONS

S - BULK
SS - SPLIT SPOON
ST - SHELBY TUBE
RS - ROCK
RT - RECOMPACTED TRIAXIAL
CBR - CALIFORNIA BEARING RATIO

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:
- ☐ CME-45C
- ☐ CME-55
- ☐ CME-550
- ☐ VANE SHEAR TEST
- ☐ PORTABLE HOIST
- ☒ CME 45B (TER1974)
- ☒ DIEDRICH D-50 (TER373)

ADVANCING TOOLS:
- ☐ CLAY BITS
- ☐ 6" CONTINUOUS FLIGHT AUGER
- ☐ 8" HOLLOW AUGERS
- ☐ HARD FACED FINGER BITS
- ☐ TUNG.-CARBIDE INSERTS
- ☐ CASING ☐ W/ ADVANCER
- ☐ TRICONE ______" STEEL TEETH
- ☒ TRICONE 2⅛" TUNG.-CARB.
- ☒ 2¼" HOLLOW STEM AUGERS
- ☒ 3¼" HOLLOW STEM AUGERS

HAMMER TYPE:
☒ AUTOMATIC ☐ MANUAL

CORE SIZE:
☐ -B ______ ☐ -H ______
☐ -N ______

HAND TOOLS:
- ☐ POST HOLE DIGGER
- ☒ HAND AUGER
- ☐ SOUNDING ROD
- ☐ VANE SHEAR TEST
- ☐ ______

ROCK DESCRIPTION

HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL. THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK.
ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:

WEATHERED ROCK (WR)	▨	NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.
CRYSTALLINE ROCK (CR)	▨	FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.
NON-CRYSTALLINE ROCK (NCR)	▤	FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YEILD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.
COASTAL PLAIN SEDIMENTARY ROCK (CP)	▦	COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.

WEATHERING

FRESH	ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.
VERY SLIGHT (V SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.
SLIGHT (SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.
MODERATE (MOD.)	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.
MODERATELY SEVERE (MOD. SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK. *IF TESTED, WOULD YIELD SPT REFUSAL*
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF*
VERY SEVERE (V SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF*
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.

ROCK HARDNESS

VERY HARD	CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.
HARD	CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.
MODERATELY HARD	CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.
MEDIUM HARD	CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.
SOFT	CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.
VERY SOFT	CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.

FRACTURE SPACING

TERM	SPACING
VERY WIDE	MORE THAN 10 FEET
WIDE	3 TO 10 FEET
MODERATELY CLOSE	1 TO 3 FEET
CLOSE	0.16 TO 1 FOOT
VERY CLOSE	LESS THAN 0.16 FEET

BEDDING

TERM	THICKNESS
VERY THICKLY BEDDED	4 FEET
THICKLY BEDDED	1.5 - 4 FEET
THINLY BEDDED	0.16 - 1.5 FEET
VERY THINLY BEDDED	0.03 - 0.16 FEET
THICKLY LAMINATED	0.008 - 0.03 FEET
THINLY LAMINATED	< 0.008 FEET

INDURATION

FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.

FRIABLE	RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.
MODERATELY INDURATED	GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.
INDURATED	GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.
EXTREMELY INDURATED	SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.

TERMS AND DEFINITIONS

ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.

AQUIFER - A WATER BEARING FORMATION OR STRATA.

ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.

ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC.

ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.

CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.

COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.

CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.

DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.

DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.

FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.

FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.

FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.

FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.

FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.

JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.

LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.

LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.

MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.

PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.

RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.

ROCK QUALITY DESIGNATION (RQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.

SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.

SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.

STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.

STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.

STRATA ROCK QUALITY DESIGNATION (SRQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.

TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.

BENCH MARK: TOP OF BORING ELEVATIONS ESTIMATED USING PROVIDED PROJECT TIN FILE: (R-5759_merged TIN.tin) DATED 06/18/2020
ELEVATION: N/A FEET

NOTES:

FIAD - FILLED IMMEDIATELY AFTER DRILLING

HAR - HAND AUGER REFUSAL

⌖ TEST LOCATION - PAVEMENT CORE WITH DCP AND AUGER PROBE

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5759	2A	

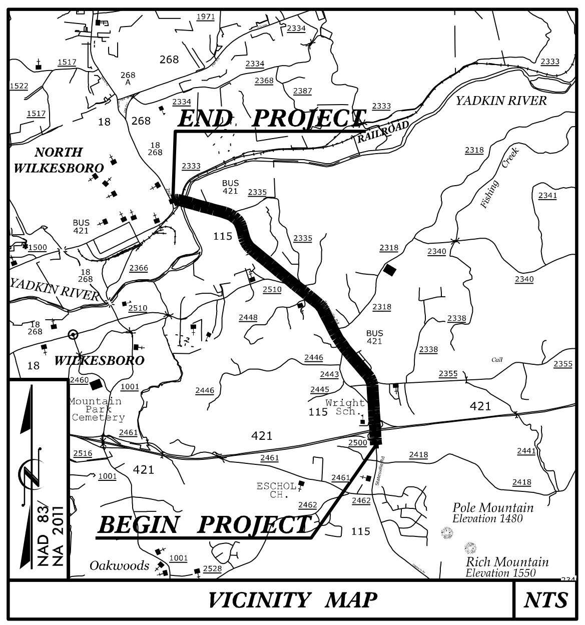
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44691.1.1		PE
44691.2.1		R/W
44691.2.2		UTIL

WILKES COUNTY

TIP PROJECT: R-5759

CONTRACT:

ROW SUBMITTAL



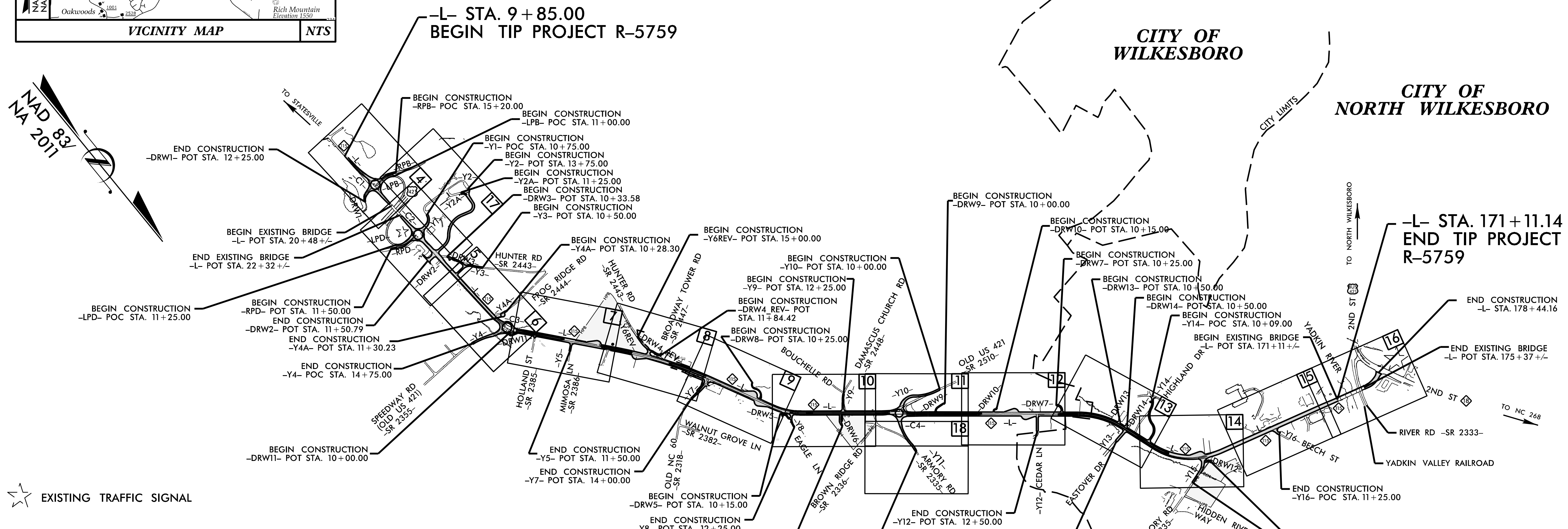
VICINITY MAP *NTS*

LOCATION: WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET

TYPE OF WORK: GRADING, PAVING, CURB AND GUTTER, AND DRAINAGE

DESIGN CRITERIA EXCEPTIONS

-L- STA. 124+05 TO 137+75 GRADE IS 7.22% WHILE DESIGN CRITERIA MAX IS 7.00%
-Y3- STA. 12+06.00 TO 13+48.42 MIN HORIZONTAL RADIUS IS 144 WHILE DESIGN CRITERIA IS 485
-Y14- STA. 10+45 TO 16+15 GRADE IS 17.15% WHILE DESIGN CRITERIA IS MAX 15%



-L- STA. 9+85.00 BEGIN TIP PROJECT R-5759
-L- STA. 171+11.14 END TIP PROJECT R-5759
CITY OF WILKESBORO
CITY OF NORTH WILKESBORO
CITY LIMITS
NAD 83/ NA 2011
TO STATESVILLE
TO NORTH WILKESBORO
TO NC 268
BEGIN CONSTRUCTION -RPB- POC STA. 15+20.00
BEGIN CONSTRUCTION -LPB- POC STA. 11+00.00
BEGIN CONSTRUCTION -Y1- POC STA. 10+75.00
BEGIN CONSTRUCTION -Y2- POT STA. 13+75.00
BEGIN CONSTRUCTION -Y2A- POT STA. 11+25.00
BEGIN CONSTRUCTION -DRW3- POT STA. 10+33.58
BEGIN CONSTRUCTION -Y3- POT STA. 10+50.00
END CONSTRUCTION -DRW1- POT STA. 12+25.00
BEGIN EXISTING BRIDGE -L- POT STA. 20+48+/-
END EXISTING BRIDGE -L- POT STA. 22+32+/-
BEGIN CONSTRUCTION -LPD- POC STA. 11+25.00
BEGIN CONSTRUCTION -RPD- POT STA. 11+50.00
END CONSTRUCTION -DRW2- POT STA. 11+50.79
END CONSTRUCTION -Y4A- POT STA. 11+30.23
END CONSTRUCTION -Y4- POC STA. 14+75.00
BEGIN CONSTRUCTION -DRW11- POT STA. 10+00.00
HUNTER RD -SR 2443-
BEGIN CONSTRUCTION -Y4A- POT STA. 10+28.30
FROG RIDGE RD -SR 2444-
HUNTER RD -SR 2443-
BEGIN CONSTRUCTION -Y6REV- POT STA. 15+00.00
BROADWAY TOWER RD -SR 2447-
SPEEDWAY RD (OLD US 421) -SR 2355-
HOLLAND ST -SR 2385-
MIMOSA LN -SR 2386-
END CONSTRUCTION -Y5- POT STA. 11+50.00
END CONSTRUCTION -Y7- POT STA. 14+00.00
BEGIN CONSTRUCTION -Y10- POT STA. 10+00.00
BEGIN CONSTRUCTION -Y9- POT STA. 12+25.00
BEGIN CONSTRUCTION -DRW4_REV- POT STA. 11+84.42
BEGIN CONSTRUCTION -DRW8- POT STA. 10+25.00
BOUCHELLE RD
DAMASCUS CHURCH RD -SR 2448-
OLD NC 60 -SR 2318-
WALNUT GROVE LN -SR 2382-
EAGLE LN
BROWN RIDGE RD -SR 2336-
ARMORY RD -SR 2335-
BEGIN CONSTRUCTION -DRW5- POT STA. 10+15.00
END CONSTRUCTION -Y8- POT STA. 12+25.00
END CONSTRUCTION -DRW6- POT STA. 12+00.00
END CONSTRUCTION -Y11- POT STA. 15+50.00
END CONSTRUCTION -Y12- POT STA. 12+50.00
END CONSTRUCTION -Y13- POT STA. 12+25.00
BEGIN CONSTRUCTION -DRW9- POT STA. 10+00.00
BEGIN CONSTRUCTION -DRW10- POT STA. 10+15.00
BEGIN CONSTRUCTION -DRW7- POT STA. 10+25.00
BEGIN CONSTRUCTION -DRW13- POT STA. 10+50.00
BEGIN CONSTRUCTION -DRW14- POT STA. 10+50.00
BEGIN CONSTRUCTION -Y14- POC STA. 10+09.00
BEGIN EXISTING BRIDGE -L- POT STA. 171+11+/-
OLD US 421 -SR 2510-
CEDAR LN
EASTOVER DR
HIGHLAND DR
ARMORY RD -SR 2335-
HIDDEN RIVER WAY
YADKIN RIVER
2ND ST
END CONSTRUCTION -L- STA. 178+44.16
END EXISTING BRIDGE -L- POT STA. 175+37+/-
RIVER RD -SR 2333-
YADKIN VALLEY RAILROAD
BEECH ST
END CONSTRUCTION -Y16- POC STA. 11+25.00
END CONSTRUCTION -DRW12- POT STA. 11+25.00
END CONSTRUCTION -Y15- POT STA. 14+25.00
4
5
6
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10
11
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14
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16
17
18
EXISTING TRAFFIC SIGNAL

NOTES:
1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 3.
2. A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF NORTH WILKESBORO.
3. THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2018 = 9,100
ADT 2040 = 11,200
K = 10 %
D = 55 %
T = 8 % *
V = 50 MPH
* TTST = 4% DUAL 4%
FUNC CLASS = MINOR ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT R-5759	=	3.078 MILES
LENGTH OF EXISTING STRUCTURE TIP PROJECT R-5759	=	0.115 MILES
TOTAL LENGTH OF TIP PROJECT R-5759	=	3.193 MILES

TOTAL LENGTH BASED ON -L- CENTERLINE

Prepared in the Office of:

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

FOR NCDOT DIVISION 11

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 22, 2022

LETTING DATE:
JUNE 18, 2024

DOUGLAS WHEATLEY, PE
PROJECT ENGINEER

THORNE KING, EI
PROJECT DESIGN ENGINEER

RAMIE SHAW, PE
NCDOT PROJECT TEAM LEAD

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

14-AUG-2024 09:28
N:\Projects\2018\701853\R5759\R5759_GEO_RDWY_modifier\CADD_ORIGINAL\R5759_CADD_11.10.2023\R5759_CADD\Roadway\Proj\R-5759_RDY_TSH.dgn
$$$$USERNAME$$$$

Date: August 16, 2024

WBS Number: 44691.1.1
TIP Number: R-5759
County: Wilkes
Description: Widening of NC 115 (Statesville Road) from US 421 to 2nd Street

Subject: **Roadway Geotechnical Report - Inventory**

Project Description

The project is located along NC 115 (Statesville Road) -L- from US 421 to NC 18 (2nd Street) east of Wilkesboro in Wilkes County, North Carolina. A portion of this project is within the municipal boundaries of the City of North Wilkesboro. The total length of the project along -L- is 3.193 miles including the bridge crossing at US 421 and will consist of widening NC 115 (Statesville Road) and upgrading existing intersections along the alignment. Statesville Road (-L-) currently consists of two to four-lane sections along the proposed widening alignment. The construction will also include four new roundabouts (-C1-, -C2-, -C3-, and -C4-). In addition, four retaining walls are proposed along the length of NC 115 (Statesville Road). The project corridor is in an urban residential setting and much of the surrounding land is developed. An elementary school is located directly north off US 421. The project will require maximum cut depths of about 58 feet and maximum fill placement depths of about 21 feet.

The geotechnical subsurface investigation was performed from July to September of 2020. The site was investigated with a total of one-hundred and thirty-three (133) standard penetration test (SPT) borings and forty (40) hand auger borings. The hand auger borings were performed at locations that could not be easily accessed by the drill rig. Additionally, eight (8) auger probes, performed during the pavement design investigation are included in this report. The hand auger borings and auger probes were advanced to depths of 1 to 15 feet beneath the ground surface. Hand auger borings DRW1_1150, L_5850RT, L_7100 and L_7386 were terminated upon hand auger refusal at depths of 1.0 to 8.5 feet in very stiff soils or an obstruction. Standard penetration test (SPT) borings were advanced using both a Diedrich D-50 and CME-45B rotary drill rigs equipped with recently calibrated automatic hammers. SPT borings were advanced utilizing hollow stem auger drilling techniques to depths of 9.2 to 94.6 feet beneath the surface.

Representative soil samples were collected in the field for visual classification and selected samples were submitted for laboratory analysis by Terracon's soil testing laboratory. One Shelby tube sample (ST-1) was obtained near the proposed retaining wall structure RWAL4 on -L- for consolidation testing. Three bulk samples were collected of representative soil samples to perform compaction moisture–density curves and California Bearing Ratio (CBR) testing to evaluate subgrade support values to be used in pavement design. Laboratory testing was performed in accordance with the AASHTO Soil Classification System.

The following alignments were investigated by soil testing and visual reconnaissance:

Alignment	Stations(±)
-L-	9+85 to 178+44
-Y1-	10+00 to 13+36
-Y2-	10+00 to 25+92
-Y3-	10+50 to 15+00
-Y4-	10+00 to 14+75
-Y5-	10+00 to 11+50
-Y6_REV-	15+00 to 18+50
-Y7-	10+00 to 14+75
-Y8-	10+00 to 12+25
-Y9-	12+25 to 15+00
-Y10-	10+25 to 17+00
-Y11-	10+00 to 15+50
-Y12-	10+00 to 12+50
-Y13-	10+00 to 12+25
-Y14-	10+09 to 17+26
-Y15-	10+00 to 14+25
-LPB-	10+90 to 13+12
-RPB-	15+20 to 17+88
-LPD-	11+25 to 14+14
-RPD-	11+50 to 15+11
-C1-	10+00 to 15+50
-C2-	10+00 to 15+50
-C3-	10+00 to 15+50
-C4-	10+00 to 14+71
-DRW1-	10+00 to 12+25
-DRW2-	10+00 to 11+52
-DRW4_REV-	10+00 to 11+84
-DRW5-	10+15 to 12+00
-DRW6-	10+00 to 12+00
-DRW7-	10+25 to 12+04
-DRW8-	10+75 to 13+50
-DRW9-	10+00 to 12+25
-DRW10-	10+00 to 11+29

Physiography and Geology

The site is located within the western Piedmont physiographic province just east of Wilkesboro, North Carolina. Topography in the area is rolling to moderately steep. The Piedmont Province is characterized by gently to steeply sloping topography with well-rounded hills and along rolling ridges with a northeast-southwest trend dissected by a moderate to well developed (mature) dendritic-type drainage system consisting of drainage swales, hollows, tributaries, streams and rivers. The existing elevations along the investigated corridor range from approximately 956 feet to 1,205 feet. The Yadkin River is located near the end of the -L- alignment flowing north under NC 115 (Statesville Road).

Geologically, the site is located within the Cat Square terranes. As mapped on the North Carolina Geologic Map 1985, the underlying rock formations at this site consist of metamorphic rocks. Based on the recovered rock samples, previous mapping and our knowledge of the local geology, the parent rock is interpreted to be gneiss, granite, and mica schist. These rocks typically weather in an irregular pattern with deep residual soils overlying saprolite to bedrock. The typical residual profile consists of finer grain clays and silts near the ground surface which gradually transition to coarser and denser material with depth and contain varying amounts of mica.

Soil Properties

Soils encountered during this investigation are separated into four categories based on their origin. The soils encountered consist of roadway embankment fill, artificial fill, alluvial soils, and residual soil and rock materials.

Roadway embankment soils were encountered along the existing roadway with up to about 24 feet along NC 115 (Statesville Road) before Eastover Drive. The roadway embankment soils appear to be reworked near-by residual soils. The remaining fill depths extend to about 1 foot to at least 16 feet beneath the ground surface or to termination depths of the borings. The roadway embankment soils consist of slightly plastic to highly plastic, soft to stiff, moist to wet, silty clay (A-7-6, A-7-5) and non-plastic, soft to stiff, moist, sandy silt (A-4) with trace of gravel and wood debris. The plasticity indices of the clayey soils range from 19 to 26 with 66 to 69 percent passing the #200 sieve and natural moisture contents of 14 to 26 percent based on laboratory testing. Layers of loose to medium dense, moist to dry, silty fine to coarse sand (A-2-4) with trace of gravel were also encountered within the roadway embankments.

Artificial fill soils encountered were generally associated with gravel fill at entrance driveways adjacent to the roadway pavements.

Alluvial soils are present adjacent to Fishing Creek on -Y4- and along an unnamed jurisdictional stream at the north end of -L- where the alignment connects to -Y13- as indicated by the alluvial boundary area shown on the plan sheets. Approximately 4 to 16 feet alluvial soils are present below the ground surface adjacent to Fishing Creek and the unnamed jurisdictional stream. These soils consist primarily of slightly plastic, soft to very stiff, moist to saturated, sandy to silty clay (A-6, A-7-5) with trace of wood fragments and organics and non-plastic, very soft to medium stiff, wet to saturated, fine sandy to clayey silt (A-4, A-5). Layers of loose to medium dense, wet, silty fine to coarse sand (A-2-4) were also encountered within the alluvial materials. No laboratory testing was performed on the alluvial soils

Residual soils are present at the surface along the south, east and west boundaries of the project and beneath the roadway embankment soils and asphalt pavement sections. Residual soils underlie the embankment fill, and alluvial soils in the remaining portions of the project. The residual soils have weathered irregularly ranging in depths from less than a foot to greater than boring termination depths of 83 feet. The residual soils can be generalized as slightly to highly plastic, very soft to hard, dry to wet, sandy to silty clay (A-6, A-7-6, A-7-5) with trace of mica underlain by non-plastic to slightly plastic, soft to hard, dry to saturated, sandy to clayey silts (A-4, A-5) with varying amounts of mica and sands consisting loose to very dense silty to clayey fine to coarse sands (A-2-4, A-2-6). The plasticity indices of the clayey soils range from 11 to 34 with 38 to 90 percent passing the #200 sieve and natural moisture contents of 9 to 44 percent based on laboratory testing. The highly plastic residual soils are indicated on the attached cross section graphics.

Rock Properties

Weathered rock was encountered during the roadway investigation. It originates from the underlying crystalline rock (gneiss, granite, and mica schist). Weathered rock is present at depths of 3.5 feet to 83.0 feet beneath the ground surface, on alignments -L-, -Y4-, and -Y14-, at elevations of approximately 986 to 1,134 feet.

Crystalline rock was encountered during the roadway investigation and consists of gneiss, granite, and mica schist. Refer to the “Areas of Geotechnical Interest” for areas of rock which may impact grading operations. Crystalline rock is present at depths of 13.0 feet to 94.6 feet beneath the ground surface, on alignments -L- and -Y14-, at elevations of approximately 975 to 1,019 feet. Outcrops of crystalline rock were observed during drilling operations on the west side of the -L- alignment.

Groundwater

In general, the corridor drains to the Yadkin River and a few unnamed jurisdictional streams. In these areas groundwater was encountered at depths as shallow as at the surface to 32 feet below the existing ground surface, approximately elevations 964 to 1,174 feet. Other areas were dry to depths of 55.9 feet after 24-hours from completion of drilling.

The depth of groundwater, beneath the ground surface, will fluctuate with seasonal precipitation and may occur at higher levels at other times of the year above less permeable clayey soils.

Areas of Special Geotechnical Interest

1) Plastic Soils – Highly plastic soils occur throughout the upland portions of the project and may impact grading at the following locations:

Alignment	Stations(±)
-L-	9+85 to 16+00
-L-	18+25 to 20+48
-L-	22+31 to 29+75
-L-	31+25 to 33+75
-L-	40+25 to 44+75
-L-	57+25 to 63+25
-L-	65+25 to 67+75
-L-	96+25 to 102+75
-L-	104+75 to 108+25
-L-	117+25 to 120+25
-L-	121+75 to 123+25

Alignment	Stations(±)
-L-	124+75 to 126+25
-L-	127+25 to 129+25
-L-	156+25 to 171+10
-Y1-	10+00 to 13+36
-Y6_REV-	15+00 to 18+50
-Y10-	10+25 to 13+15
-Y11-	12+10 to 14+15
-Y12-	10+00 to 12+50
-LPB-	10+90 to 11+65
-RPB-	15+20 to 16+15
-LPD-	11+25 to 14+14
-RPD-	11+50 to 15+11
-C1-	10+35 to 14+65
-C2-	10+00 to 15+50
-C4-	13+10 to 13+65
-DRW1-	10+00 to 12+25
-DRW4_REV-	10+00 to 11+84

A discussion of these plastic soils is located above in the section titled “Soil Properties”.

2) Soft Wet Alluvial Soils- Soft wet near surface soils which have the potential to cause embankment stability/settlement problems occur through the following sections:

Alignment	Station (±)
-L-	132+60 to 137+20
-Y4-	10+10 to 12+20
-Y13-	10+40 to 11+70

A discussion of these soft, wet, alluvial near-surface soils is located above in the section titled “Soil Properties”.

3) Crystalline Rock- Crystalline rock was encountered within 6 feet of the exiting ground surface at the following location.

Alignment	Station (±)
-L-	140+75 to 141+25

4) Groundwater- High water tables, seasonal high ground water, as well as potential perched groundwater were encountered at the following locations.

Alignment	Station (±)
-L-	41+50 to 43+50
-L-	46+25 to 47+50
-L-	99+00 to 103+00
-L-	122+00 to 123+00
-L-	132+75 to 137+25
-L-	140+00 to 142+25
-L-	154+75 to 163+75
-Y4-	10+25 to 12+20
-Y13-	10+40 to 11+80

5) Groundwater Wells – Groundwater wells within the roadway right-of-way should be properly abandoned at the following location:

Alignment	Stations (±)	Offset (ft.)
-L-	58+34	73 RT

BULK SAMPLES

The following bulk samples were taken for tests to determine the engineering properties of the soil for compaction and pavement subgrade support.

Samples No.	Location	Depth	Test
CBR-1	28+00 -L- 19’ RT	1.0 – 3.0	Proctor and CBR
CBR-2	93+00 -L- 21’ RT	1.0 – 3.0	Proctor and CBR
CBR-3	154+00 -L- 36’ LT	1.0 – 3.0	Proctor and CBR

UNDISTURBED SAMPLES

The following “Shelby” tube sample was taken to provide consolidation data.

Sample No.	Location	Depth (ft.)	Test
ST-1	133+00 -L- 105’ LT	3.0 – 5.2	Consolidation

Sincerely,
Terracon Consultants, Inc.

Signed by:
Matthew Hartman
3F24E48299B5429...
Matthew L. Hartman, P.G.
Project Geologist

DocuSigned by:
Abner Riggs
C2F6ACA84D274B1...
Abner F. Riggs, Jr. P.E.
Senior Geotechnical Engineer

HNTB
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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

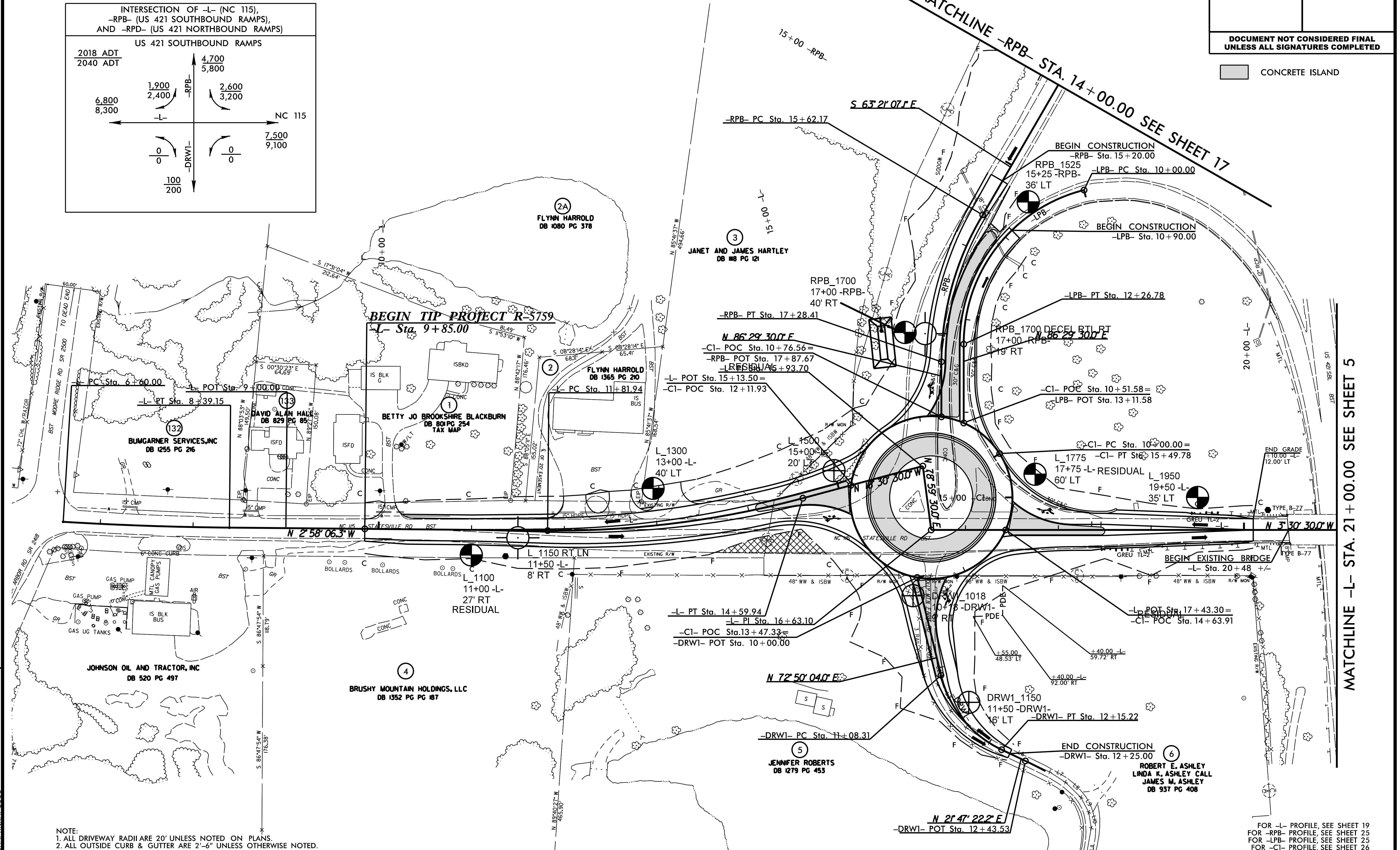
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

▨ CONCRETE ISLAND

8/17/99

REVISIONS	
03-17-2022	HYDRO REVISED SPECIAL LATERAL BASE DITCH.THIS CHANGE REQUIRED MORE CONSTRUCTION EASEMENT ONTO PARCEL 3.
05-25-2022	PUE AND TCE REVISED ON PARCEL 3.TCE AND DUE UPDATED DUE TO EC DEVICE RELOCATION.TCE REDUCED ON PARCEL 5.DTK
06-14-2022	TCE REVISED ON PARCEL 5.JMP
08-16-2023	PARCEL 2 WAS SPLIT INTO 2 AND 2A.PARCEL 2A PUE AND ROW ADDED.PARCEL 2 PUE AND ROW ADJUSTED.DTK

-L-	-L-	-DRW1-	-LPB-	-RPB-	-RPB-	-C1-
PI Sta 7+49.59	PI Sta 13+21.80	PI Sta 11+65.61	PI Sta 11+33.57	PI Sta 11+87.20	PI Sta 16+47.34	PI Sta Undefined
Δ = 2° 55' 57.7" (LT)	Δ = 15° 32' 23.7" (LT)	Δ = 51° 02' 41.8" (LT)	Δ = 75° 59' 11.6" (LT)	Δ = 21° 30' 01" (RT)	Δ = 30° 43' 28" (LT)	Δ = 360° 00' 00.0" (LT)
D = 1° 38' 13.3"	D = 5° 35' 23.4"	D = 47° 44' 47.3"	D = 33° 30' 22.7"	D = 5° 48' 39"	D = 18° 28' 57.0"	D = 65° 28' 51.2"
L = 179.15'	L = 278.00'	L = 106.91'	L = 226.78'	L = 370.00'	L = 166.24'	L = 274.89'
T = 89.59'	T = 139.86'	T = 57.29'	T = 133.57'	T = 187.20'	T = 85.17'	T = Undefined
R = 3,500.00'	R = 1,025.00'	R = 120.00'	R = 171.00'	R = 986.00'	R = 310.00'	R = 87.50'
SE = EXISTING	SE = 6%	SE = 2%	SE = 8%	SE = 8%	SE = 6%	SE = 2%
RO = SEE PLANS	RO = 156.00'	RO = 32.00'	RO = 144.00'	RO = 144.00'	RO = 108.00'	RO = SEE PLANS
V = 40 MPH	V = 40 MPH	V = 20 MPH	V = 25 MPH	V = 60 MPH	V = 60 MPH	V = 35 MPH



NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. FOR ROUNDABOUT DIMENSIONS, SEE DETAIL SHEET 2B-1.

FOR -L- PROFILE, SEE SHEET 19
FOR -RPB- PROFILE, SEE SHEET 25
FOR -LPB- PROFILE, SEE SHEET 25
FOR -C1- PROFILE, SEE SHEET 26
FOR -DRW1- PROFILE, SEE SHEET 26

8/17/99

REVISIONS

5-25-2022 PUE ADDED ON PARCEL 8.TCE UPDATED ON PARCEL 8.PUE ADDED ON PARCEL 9.TCE REVISED ON PARCEL 9. PUE WAS REPLACED WITH DUE ON PARCEL 15.DUE WAS REVISED AND TCE WAS REMOVED ON PARCEL 16.DTK

12-02-2022 PROPERTY LINE CHANGED FOR PARCEL 8 THAT REDUCED TCE ON PARCEL 9 AND INCREASED TCE ON PARCEL 8. DMW

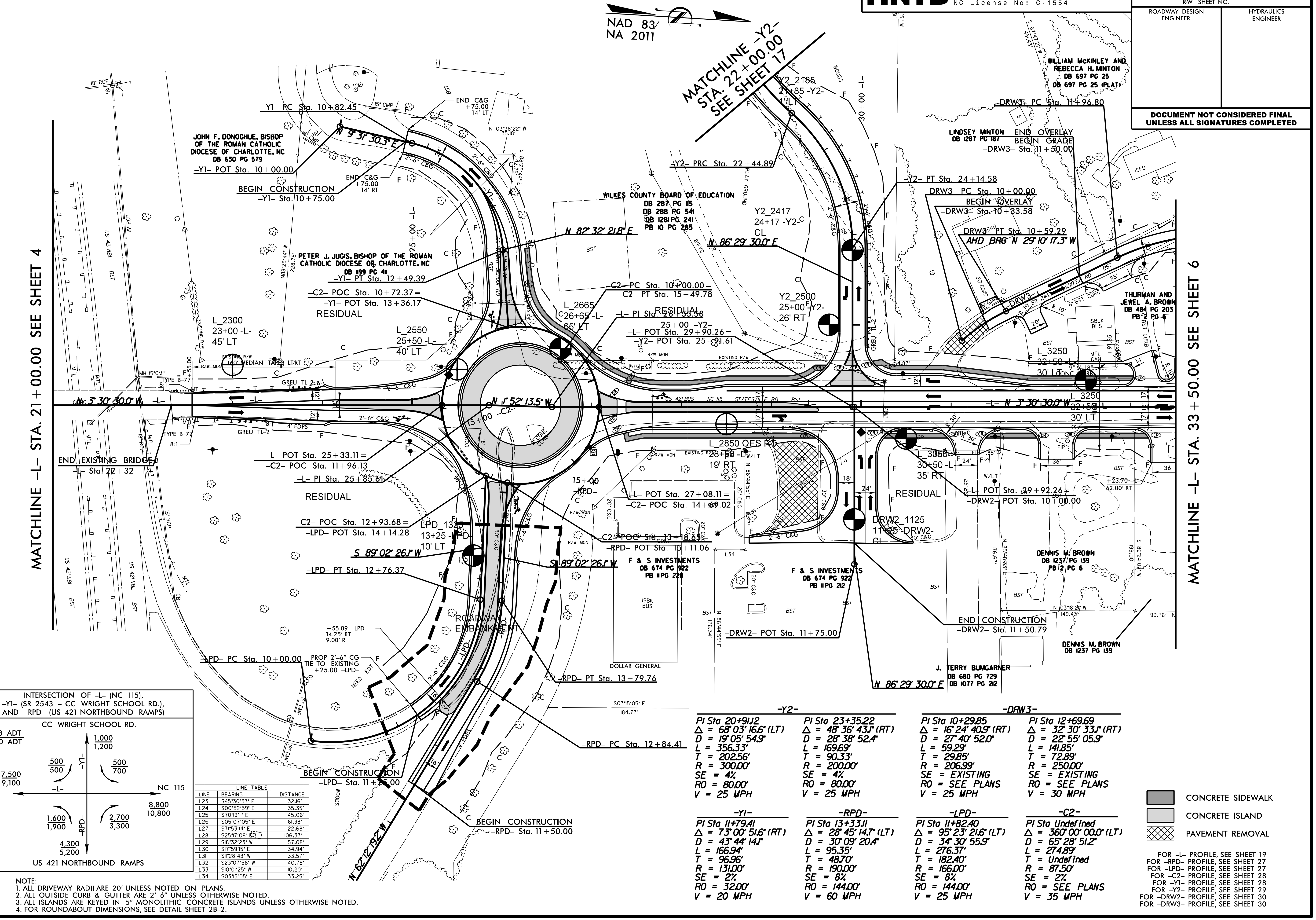
08-18-2023 ROW ADDED TO PARCEL 11.PUE, PDE, TCE, AND DUE REMOVED ON PARCEL 11.DTK

12-MAR-2024 11:52
\\P70WFS01\Data\Projects\2018\70185317\R5759\RDWY_RDWY
$$$$USERNAME$$$$

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



LINE TABLE		
LINE	BEARING	DISTANCE
L23	S45°30'37" E	32.16'
L24	S00°52'59" E	35.35'
L25	S70°19'11" E	45.06'
L26	S05°07'05" E	61.38'
L27	S71°53'14" E	22.68'
L28	S25°17'08" E	106.33'
L29	S18°32'23" W	57.08'
L30	S17°59'15" E	34.94'
L31	S11°28'43" W	33.57'
L32	S23°07'56" W	40.78'
L33	S10°01'25" W	10.20'
L34	S03°15'05" E	33.25'

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. FOR ROUNDABOUT DIMENSIONS, SEE DETAIL SHEET 2B-2.

-Y2-

PI Sta 20+91.12
Δ = 68° 03' 16.6" (LT)
D = 19° 05' 54.9"
L = 356.33'
T = 202.56'
R = 300.00'
SE = 4%
RO = 80.00'
V = 25 MPH

PI Sta 23+35.22
Δ = 48° 36' 43.1" (RT)
D = 28° 38' 52.4"
L = 169.69'
T = 90.33'
R = 200.00'
SE = 4%
RO = 80.00'
V = 25 MPH

-DRW3-

PI Sta 10+29.85
Δ = 16° 24' 40.9" (RT)
D = 27° 40' 52.0"
L = 59.29'
T = 29.85'
R = 206.99'
SE = EXISTING
RO = SEE PLANS
V = 25 MPH

PI Sta 12+69.69
Δ = 32° 30' 33.1" (RT)
D = 22° 55' 05.9"
L = 141.85'
T = 72.89'
R = 250.00'
SE = EXISTING
RO = SEE PLANS
V = 30 MPH

-Y1-

PI Sta 11+79.41
Δ = 73° 00' 51.6" (RT)
D = 43° 44' 14.1"
L = 166.94'
T = 96.96'
R = 131.00'
SE = 2%
RO = 32.00'
V = 20 MPH

-RPD-

PI Sta 13+33.11
Δ = 28° 45' 14.7" (LT)
D = 30° 09' 20.4"
L = 95.35'
T = 48.70'
R = 190.00'
SE = 8%
RO = 144.00'
V = 60 MPH

-LPD-

PI Sta 11+82.40
Δ = 95° 23' 21.6" (LT)
D = 34° 30' 55.9"
L = 276.37'
T = 182.40'
R = 166.00'
SE = 8%
RO = 144.00'
V = 25 MPH

-C2-

PI Sta Undefined
Δ = 360° 00' 00.0" (LT)
D = 65° 28' 51.2"
L = 274.89'
T = Undefined
R = 87.50'
SE = 2%
RO = SEE PLANS
V = 35 MPH

▩	CONCRETE SIDEWALK
▢	CONCRETE ISLAND
▨	PAVEMENT REMOVAL

FOR -L- PROFILE, SEE SHEET 19
FOR -RPD- PROFILE, SEE SHEET 27
FOR -LPD- PROFILE, SEE SHEET 27
FOR -C2- PROFILE, SEE SHEET 28
FOR -Y1- PROFILE, SEE SHEET 28
FOR -Y2- PROFILE, SEE SHEET 29
FOR -DRW2- PROFILE, SEE SHEET 30
FOR -DRW3- PROFILE, SEE SHEET 30

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

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343 E. Six Forks Road, Suite 200
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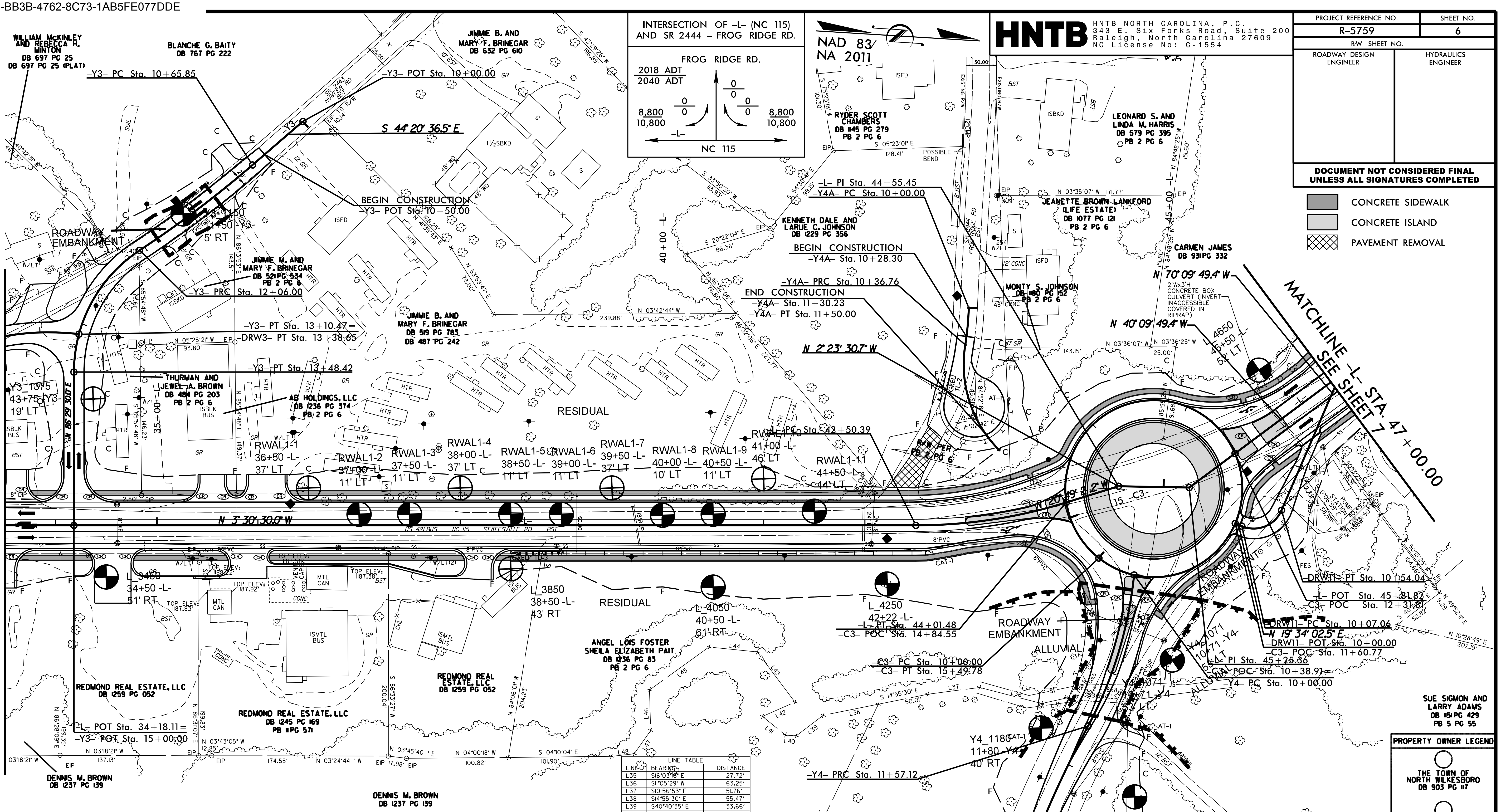
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

- ▓ CONCRETE SIDEWALK
- ░ CONCRETE ISLAND
- ▨ PAVEMENT REMOVAL


INTERSECTION OF -L- (NC 115) AND SR 2444 - FROG RIDGE RD.
FROG RIDGE RD.
2018 ADT / 2040 ADT
0/0
0/0
0/0
8,800/10,800
8,800/10,800
-L-
NC 115
NAD 83/ NA 2011
MATCHLINE -L- STA. 33+50.00 SEE SHEET 5
MATCHLINE -L- STA. 47+00.00 SEE SHEET 7
WILLIAM McKINLEY AND REBECCA H. MINTON DB 697 PG 25 DB 697 PG 25 (PLAT)
BLANCHE G. BAITY DB 767 PG 222
JIMMIE B. AND MARY F. BRINEGAR DB 632 PG 610
-Y3- PC Sta. 10+65.85
-Y3- POT Sta. 10+00.00
S 44° 20' 36.5" E
BEGIN CONSTRUCTION -Y3- POT Sta. 10+50.00
ROADWAY EMBANKMENT
JIMMIE M. AND MARY F. BRINEGAR DB 521 PG 534 PB 2 PG 6
-Y3- PRC Sta. 12+06.00
JIMMIE B. AND MARY F. BRINEGAR DB 519 PG 783 DB 487 PG 242
-Y3- PT Sta. 13+10.47 = -DRW3- PT Sta. 13+38.65
-Y3- PT Sta. 13+48.42
THURMAN AND JEWEL A. BROWN DB 484 PG 203 PB 2 PG 6
AB HOLDINGS, LLC DB 1236 PG 374 PB 2 PG 6
RESIDUAL
RWAL1-1 36+50 -L- 37' LT
RWAL1-2 37+00 -L- 11' LT
RWAL1-3 37+50 -L- 11' LT
RWAL1-4 38+00 -L- 37' LT
RWAL1-5 38+50 -L- 11' LT
RWAL1-6 39+00 -L- 11' LT
RWAL1-7 39+50 -L- 37' LT
RWAL1-8 40+00 -L- 10' LT
RWAL1-9 40+50 -L- 11' LT
RWAL1-10 41+00 -L- 46' LT
RWAL1-11 41+50 -L- 14' LT
-L- PC Sta. 42+50.39
N 3° 30' 30.0" W
N 2° 23' 30.7" W
US 421 BUS NC 115 STATESVILLE RD BST
L_3450 34+50 -L- 51' RT
L_3850 38+50 -L- 43' RT
L_4050 40+50 -L- 61' RT
L_4250 42+22 -L-
-L- PT Sta. 44+01.48
-C3- POC Sta. 14+84.55
RESIDUAL
ANGEL LOIS FOSTER SHEILA ELIZABETH PAIT DB 1236 PG 83 PB 2 PG 6
REDMOND REAL ESTATE, LLC DB 1259 PG 052
REDMOND REAL ESTATE, LLC DB 1245 PG 169 PB 11 PG 571
REDMOND REAL ESTATE, LLC DB 1259 PG 052
-L- POT Sta. 34+18.11 = -Y3- POT Sta. 15+00.00
DENNIS M. BROWN DB 1237 PG 139
RYDER SCOTT CHAMBERS DB 1145 PG 279 PB 2 PG 6
KENNETH DALE AND LARUE C. JOHNSON DB 1229 PG 356
-L- PI Sta. 44+55.45
-Y4A- PC Sta. 10+00.00
BEGIN CONSTRUCTION -Y4A- Sta. 10+28.30
-Y4A- PRC Sta. 10+36.76
END CONSTRUCTION -Y4A- Sta. 11+30.23
-Y4A- PT Sta. 11+50.00
LEONARD S. AND LINDA M. HARRIS DB 579 PG 395 PB 2 PG 6
JEANETTE BROWN LANKFORD (LIFE ESTATE) DB 1077 PG 121 PB 2 PG 6
MONTY S. JOHNSON DB 1180 PG 152 PB 2 PG 6
CARMEN JAMES DB 931 PG 332
N 70° 09' 49.4" W
2'Wx3'H CONCRETE BOX CULVERT (INVERT INACCESSIBLE COVERED IN RIPRAP)
N 40° 09' 49.4" W
L_4650 46+50 -L- 52' LT
N 20° 49' 3.2" W
15 -C3-
ROADWAY EMBANKMENT
ALLUVIAL
-DRW11- PT Sta. 10+54.04
-L- POT Sta. 45+81.82
-C3- POC Sta. 12+31.81
-DRW11- PC Sta. 10+07.06
N 19° 34' 02.5" E
-DRW11- POT Sta. 10+00.00
-C3- POC Sta. 11+60.77
-L- PI Sta. 45+25.36
-C3- POC Sta. 10+38.91
-Y4- PC Sta. 10+00.00
-C3- PC Sta. 10+00.00
-C3- PT Sta. 15+49.78
Y4_1071 10+71 -Y4- 51' LT
Y4_1180 11+80 -Y4- 40' RT
-Y4- PRC Sta. 11+57.12
Y4_BSLOPE 12+91 -Y4- 9' LT
Y4_1200 12+00 -Y4- 73' LT
SUE SIGMON AND LARRY ADAMS DB 1151 PG 429 PB 5 PG 55
WILLIAM MUDD, JR. DB 1353 PG 134
WILLIAM MUDD, JR. DB 1353 PG 134
ELIZABETH A. BROOKS DB 574 PG 145
END CONSTRUCTION -Y4- Sta. 14+75.00
15+00 -Y4-

PROPERTY OWNER LEGEND

- ○ THE TOWN OF NORTH WILKESBORO DB 903 PG 117
- ○ RANDALL H. BURCHAM DB 876 PG 86 PB 5 PG 55

LINE TABLE		
LINE	BEARING	DISTANCE
L35	S16°03'16" E	27.72'
L36	S11°05'29" W	63.25'
L37	S10°56'53" E	51.76'
L38	S14°55'30" E	55.47'
L39	S40°40'35" E	33.66'
L40	S00°53'55" W	10.59'
L41	S35°40'18" W	29.25'
L42	N27°09'03" W	35.04'
L43	S49°35'07" W	62.11'
L44	S02°22'07" W	47.87'
L45	S39°19'59" E	72.61'
L46	N84°49'53" E	40.10'
L47	S58°11'07" E	28.30'
L48	S09°34'30" E	22.57'

DENNIS M. BROWN
DB 1237 PG 139

-Y4-

PI Sta 10+79.58
Δ = 22° 30' 18.8" (RT)
D = 14° 19' 26.2"
L = 157.12'
T = 79.58'
R = 400.00'
SE = 2%
RO = 48.00'
V = 35 MPH

PI Sta 13+97.31
Δ = 25° 01' 59.9" (LT)
D = 5° 17' 44.3"
L = 472.71'
T = 240.19'
R = 1,081.94'
SE = 8%
RO = 192.00'
V = 55 MPH

-DRW3-

PI Sta 12+69.69
Δ = 32° 30' 33.1" (RT)
D = 22° 55' 05.9"
L = 141.85'
T = 72.89'
R = 250.00'
SE = EXISTING
RO = SEE PLANS
V = 30 MPH

-L-

PI Sta 43+26.51
Δ = 17° 18' 51.2" (LT)
D = 11° 27' 33.0"
L = 151.10'
T = 76.13'
R = 500.00'
SE = 2%
RO = 58.00'
V = 35 MPH

-DRW11-

PI Sta 10+36.92
Δ = 89° 43' 51.94" (LT)
D = 190° 59' 09.35"
L = 46.98'
T = 29.86'
R = 30.00'
SE = 2%
RO = 26.00'
V = 15 MPH

-Y3-

PI Sta 11+36.03
Δ = 7° 30' 15.4" (RT)
D = 5° 21' 17.1"
L = 140.14'
T = 70.17'
R = 1,070.00'
SE = 4%
RO = 56.00'
V = 60 MPH

PI Sta 12+83.64
Δ = 56° 40' 08.9" (LT)
D = 39° 47' 19.4"
L = 142.43'
T = 77.65'
R = 144.00'
SE = 6%
RO = 84.00'
V = 50 MPH

-C3-

PI Sta Undefined
Δ = 360° 00' 00.0" (LT)
D = 65° 28' 51.2"
L = 274.89'
T = Undefined
R = 87.50'
SE = 2%
RO = SEE PLANS
V = 35 MPH

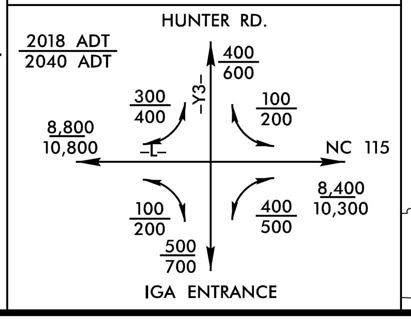
-Y4A-

PI Sta 10+18.40
Δ = 7° 21' 50.3" (RT)
D = 20° 02' 00.6"
L = 36.76'
T = 18.40'
R = 286.00'

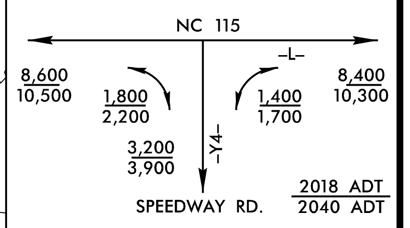
PI Sta 10+98.00
Δ = 54° 05' 31.9" (LT)
D = 47° 45' 54.6"
L = 113.25'
T = 61.24'
R = 119.95'

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. FOR ROUNDABOUT DIMENSIONS, SEE DETAIL SHEET 2B-3.

INTERSECTION OF -L- (NC 115), -Y3- (SR 2443 - HUNTER RD.) AND IGA ENTRANCE



INTERSECTION OF -L- (NC 115) AND -Y4- (SR 2355 - SPEEDWAY RD.)



FOR ROW MONUMENT INFORMATION SEE SHEET 2B-12
FOR -L- PROFILE, SEE SHEETS 19 & 20
FOR -DRW3- PROFILE, SEE SHEET 30
FOR -Y3- PROFILE, SEE SHEET 30
FOR -C3- PROFILE, SEE SHEET 31
FOR -Y4- PROFILE, SEE SHEET 31
FOR -Y4A- PROFILE, SEE SHEET 31
FOR -DRW11- PROFILE, SEE SHEET 31

REVISIONS	
03-17-2022	REMOVED * ON PARCEL 26 AND RELEASED FOR PURCHASE.DTK
05-25-2022	PDE WAS REPLACED WITH DUE ON PARCEL 16 AND PARCEL 20.PUE WAS REVISED ON PARCEL 33.DTK
10-28-2022	PUE REMOVED ON PARCEL 26 REPLACED WITH AUE.AUE ADDED ON PARCEL 25 & 27.DMW
12-02-2022	AUE REVISED ON PARCEL 25-27.DMW
01-05-2023	AUE REMOVED AND PUE INCREASED ON PARCEL 33 ON PARCEL 34 AUE WAS REVISED AND BOTH PUE AND TCE WERE REMOVED.DMW
08-16-2023	COMBINED PARCEL 28 AND 29 INTO PARCEL 28.PARCEL 29 IS NO CLAIM.DTK

8/17/99

12-MAR-2024 11:52
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HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

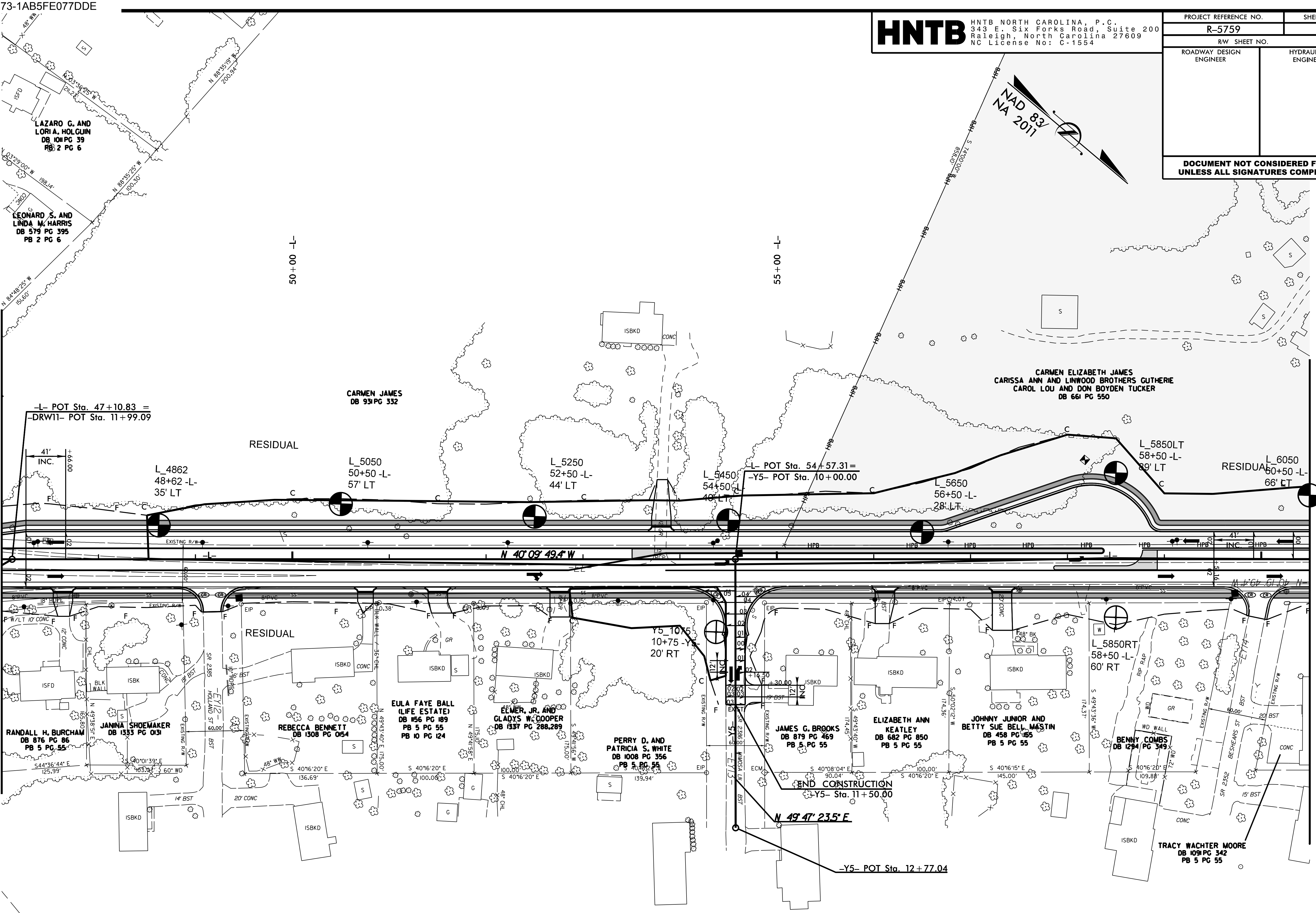
REVISIONS

03-17-2022 DUE HAS BEEN ADDED ON PARCEL 44. DUE REPLACED PDE.JMP
05-25-2022 TCE REVISED ON PARCEL 35 & 36.DMW
10-28-2022 TCE ON PARCEL 42 REVISED.DTK

8/17/99

09-MAY-2024 15:11
\R5759_GEO_RDWY_modifier\CADD_GEOTECH\PlanProf\R-5759_RDY_PSH07.dgn
...\Projects\2018\7018537\R5759
$$$$USERNAME$$$$

MATCHLINE -L- STA. 47+00.00 SEE SHEET 6


NAD 83/ NA 2011
LAZARO G. AND LORI A. HOLGUIN DB 1011 PG 39 PB 2 PG 6
LEONARD S. AND LINDA M. HARRIS DB 579 PG 395 PB 2 PG 6
50+00 -L-
55+00 -L-
CARMEN JAMES DB 931 PG 332
CARMEN ELIZABETH JAMES CARISSA ANN AND LINWOOD BROTHERS GUTHERIE CAROL LOU AND DON BOYDEN TUCKER DB 661 PG 550
-L- POT Sta. 47+10.83 = -DRW11- POT Sta. 11+99.09
RESIDUAL
L_4862 48+62 -L- 35' LT
L_5050 50+50 -L- 57' LT
L_5250 52+50 -L- 44' LT
L_5450 54+50 -L- 40' LT
-L- POT Sta. 54+57.31 = -Y5- POT Sta. 10+00.00
L_5650 56+50 -L- 28' LT
L_5850LT 58+50 -L- 89' LT
L_6050 60+50 -L- 66' LT
RESIDUAL
41' INC.
N 40°09' 49.4" W
HPB
Y5_1075 10+75 -Y5- 20' RT
L_5850RT 58+50 -L- 60' RT
RESIDUAL
RANDALL H. BURCHAM DB 876 PG 86 PB 5 PG 55
JANINA SHOEMAKER DB 1333 PG 0131
REBECCA BENNETT DB 1308 PG 0154
EULA FAYE BALL (LIFE ESTATE) DB 1156 PG 189 PB 5 PG 55 PB 10 PG 124
ELMER, JR. AND GLADYS W. COOPER DB 1337 PG 288,289
PERRY D. AND PATRICIA S. WHITE DB 1008 PG 356 PB 5 PG 55
JAMES G. BROOKS DB 879 PG 469 PB 5 PG 55
ELIZABETH ANN KEATLEY DB 682 PG 850 PB 5 PG 55
JOHNNY JUNIOR AND BETTY SUE BELL MASTIN DB 458 PG 155 PB 5 PG 55
BENNY COMBS DB 1294 PG 349
TRACY WACHTER MOORE DB 1091 PG 342 PB 5 PG 55
END CONSTRUCTION -Y5- Sta. 11+50.00
N 49°47' 23.5" E
-Y5- POT Sta. 12+77.04
SR 2385 HOLLAND ST
MIMOSA LN SR 2386
SR 2352 BESHEARS ST
ISBKD
ISFD

MATCHLINE -L- STA. 60+50.00 SEE SHEET 8

☐	HPB
▨	CONCRETE SIDEWALK
☐	CONCRETE ISLAND

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 20
FOR -Y5- PROFILE, SEE SHEET 32

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Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

03-17-2022 PUE ON PARCEL 50 WAS NOT ENDED.UPDATED TO TIE TO PROPERTY LINE.JMP
05-25-2022 TCE REVISED ON PARCEL 46 AND 48.PDE,DUE,AND TCE REVISED ON PARCEL 49.DMW
08-16-2023 COMBINED PARCEL 57 AND 58 INTO PARCEL 57.PARCEL 58 IS NO CLAIM.PARCEL 49 ADJUSTED TCE.ADDED EXISTING ROW BETWEEN PARCELS 59 AND 60.REMOVED ROW AND PDE CLAIMS ON OAK ST AROUND STRUCTURE 0811.PARCEL 49 TCE ADJUSTED.UPDATED SURVEY RESULTED IN NEW PARCEL 154,AND THE ADDITION OF DUE AND TCE TO PARCEL 154.DTK

8/17/99

-L-

PI Sta 68+51.79
Δ = 13° 36′ 51.6″ (RT)
D = 0° 53′ 42.9″
L = 1,520.74′
T = 763.97′
R = 6,400.00′
SE = 2%
RO = 82.00′
V = 50 MPH

-DRW4_REV-

PI Sta 10+42.20
Δ = 44° 26′ 05.4″ (RT)
D = 57° 17′ 44.8″
L = 77.55′
T = 40.84′
R = 100.00′

PI Sta 11+11.03
Δ = 18° 14′ 53.8″ (LT)
D = 28° 38′ 52.4″
L = 63.70′
T = 32.12′
R = 200.00′

-Y6_REV-

PI Sta 11+27.06
Δ = 1° 06′ 45.6″ (LT)
D = 5° 43′ 46.5″
L = 19.42′
T = 9.71′
R = 1,000.00′

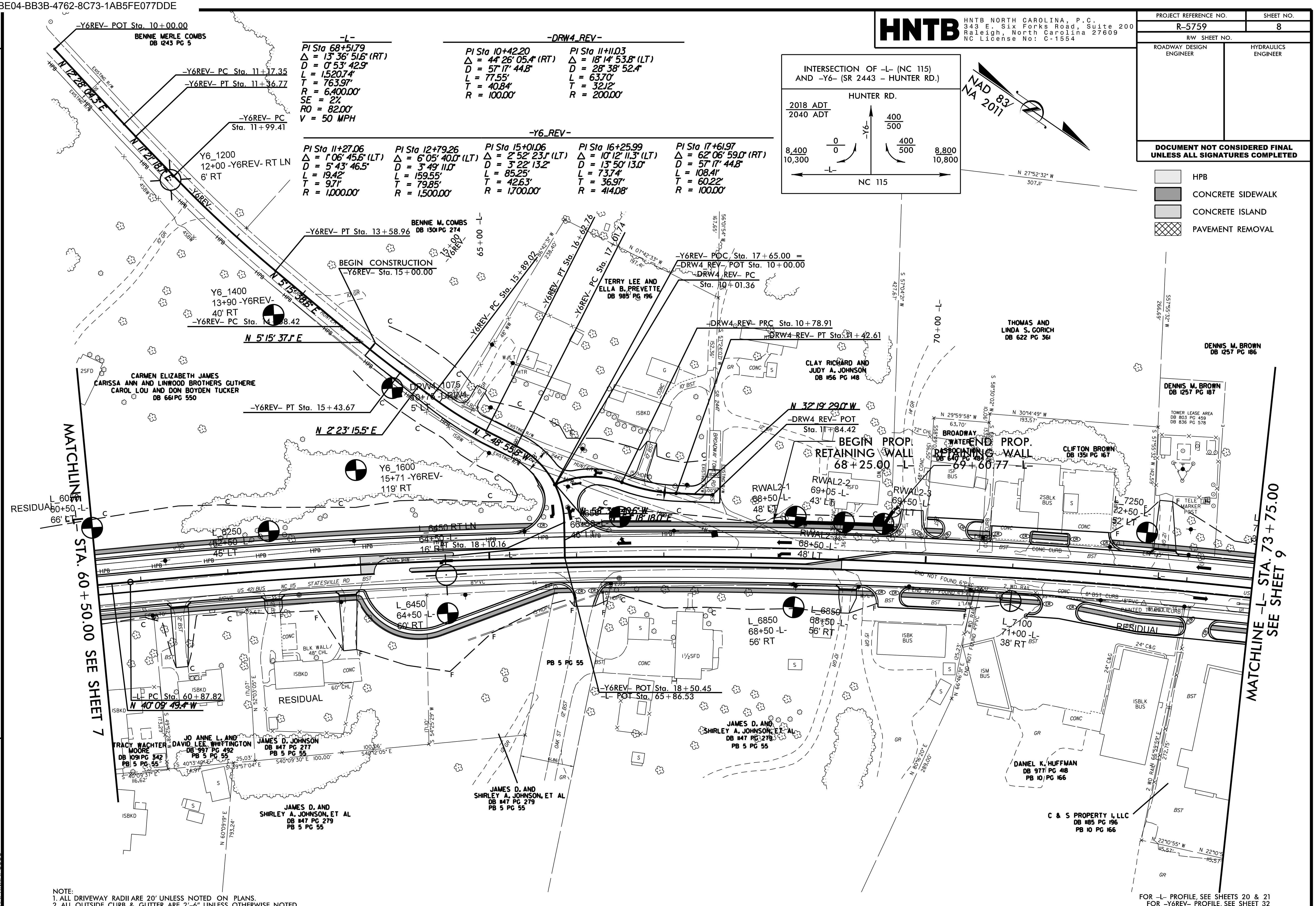
PI Sta 12+79.26
Δ = 6° 05′ 40.0″ (LT)
D = 3° 49′ 11.0″
L = 159.55′
T = 79.85′
R = 1,500.00′

PI Sta 15+01.06
Δ = 2° 52′ 23.1″ (LT)
D = 3° 22′ 13.2″
L = 85.25′
T = 42.63′
R = 1,700.00′

PI Sta 16+25.99
Δ = 10° 12′ 11.3″ (LT)
D = 13° 50′ 13.0″
L = 73.74′
T = 36.97′
R = 414.08′

PI Sta 17+61.97
Δ = 62° 06′ 59.0″ (RT)
D = 57° 17′ 44.8″
L = 108.41′
T = 60.22′
R = 100.00′

▭	HPB
▆	CONCRETE SIDEWALK
▭	CONCRETE ISLAND
▨	PAVEMENT REMOVAL


INTERSECTION OF -L- (NC 115) AND -Y6- (SR 2443 - HUNTER RD.)
HUNTER RD.
2018 ADT
2040 ADT
-Y6-
400
500
0
0
400
500
8,400
10,300
8,800
10,800
-L-
NC 115
NAD 83/NA 2011
-Y6REV- POT Sta. 10+00.00
BENNIE MERLE COMBS DB 1243 PG 5
-Y6REV- PC Sta. 11+17.35
-Y6REV- PT Sta. 11+36.77
-Y6REV- PC Sta. 11+99.41
Y6_1200 12+00 -Y6REV- RT LN 6' RT
N 12°28′09.3″ E
N 11°21′18.7″ E
BENNIE M. COMBS DB 1301 PG 274
-Y6REV- PT Sta. 13+58.96
BEGIN CONSTRUCTION -Y6REV- Sta. 15+00.00
Y6_1400 13+90 -Y6REV- 40' RT
-Y6REV- PC Sta. 14+38.42
N 5°15′38.6″ E
N 5°15′37.1″ E
-Y6REV- PC Sta. 15+89.02
-Y6REV- PT Sta. 16+62.76
-Y6REV- PC Sta. 17+01.74
TERRY LEE AND ELLA B. PREVETTE DB 985 PG 196
-Y6REV- POC Sta. 17+65.00 = -DRW4_REV- POT Sta. 10+00.00
-DRW4_REV- PC Sta. 10+01.36
-DRW4_REV- PRC Sta. 10+78.91
-DRW4_REV- PT Sta. 11+42.61
THOMAS AND LINDA S. GORICH DB 622 PG 361
DENNIS M. BROWN DB 1257 PG 186
CLAY RICHARD AND JUDY A. JOHNSON DB 1156 PG 148
N 32°19′29.0″ W
-DRW4_REV- POT Sta. 11+84.42
DENNIS M. BROWN DB 1257 PG 187
CARMEN ELIZABETH JAMES CARISSA ANN AND LINWOOD BROTHERS GUTHERIE CAROL LOU AND DON BOYDEN TUCKER DB 661 PG 550
DRW4_1075 10+75 -DRW4- 5' LT
-Y6REV- PT Sta. 15+43.67
N 2°23′15.5″ E
N 7°48′55.8″ W
Y6_1600 15+71 -Y6REV- 119' RT
BEGIN PROP. RETAINING WALL 68+25.00 -L-
END PROP. RETAINING WALL 69+60.77 -L-
CLIFTON BROWN DB 1351 PG 167
RWAL2-1 68+50 -L- 48' LT
RWAL2-2 69+05 -L- 43' LT
RWAL2-3 69+50 -L-
L_7250 72+50 -L- 52' LT
RESIDUAL
L_6050 60+50 -L- 66' LT
L_6250 62+50 -L- 45' LT
L_6450 RT LN 64+50 -L- 16' RT
-L- PT Sta. 18+10.16
MATCHLINE -L- STA. 60+50.00 SEE SHEET 7
MATCHLINE -L- STA. 73+75.00 SEE SHEET 9
US 421 BUS NC 115 STATESVILLE RD
L_6450 64+50 -L- 60' RT
L_6850 68+50 -L- 56' RT
L_6850 68+50 -L- 56' RT
L_7100 71+00 -L- 38' RT
RESIDUAL
-L- PC Sta. 60+87.82
N 40°09′49.4″ W
RESIDUAL
-Y6REV- POT Sta. 18+50.45
-L- POT Sta. 65+86.53
PB 5 PG 55
TRACY WACHTER MOORE DB 1091 PG 342 PB 5 PG 55
JO ANNE L. AND DAVID LEE WHITTINGTON DB 997 PG 492 PB 5 PG 55
JAMES D. JOHNSON DB 1147 PG 277 PB 5 PG 55
JAMES D. AND SHIRLEY A. JOHNSON, ET AL DB 1147 PG 279 PB 5 PG 55
JAMES D. AND SHIRLEY A. JOHNSON, ET AL DB 1147 PG 279 PB 5 PG 55
JAMES D. AND SHIRLEY A. JOHNSON ET AL DB 1147 PG 279 PB 5 PG 55
DANIEL K. HUFFMAN DB 977 PG 418 PB 10 PG 166
C & S PROPERTY I, LLC DB 1185 PG 196 PB 10 PG 166
OAK ST
BROADWAY TOWER RD
HUNTER RD
SR 2443

NOTE:
1. ALL DRIVEWAY RADII ARE 20′ UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2′-6″ UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5″ MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. -DRW4- LT TURN ISD WILL NEED FURTHER INVESTIGATION

FOR -L- PROFILE, SEE SHEETS 20 & 21
FOR -Y6REV- PROFILE, SEE SHEET 32
FOR -DRW4 REV- PROFILE, SEE SHEET 33
FOR INTERSECTION DETAIL AT -L-, -Y6REV-, & -DRW4_REV-, SEE SHEET 2B-6

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$$$$USERNAME$$$$

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

▨ CONCRETE SIDEWALK
▨ CONCRETE ISLAND

-L-

PI Sta 68+51.79
Δ = 13° 36′ 51.6″ (RT)
D = 0° 53′ 42.9″
L = 1,520.74′
T = 763.97′
R = 6,400.00′
SE = 2%
RO = 82.00′
V = 50 MPH

PIs Sta 85+86.17
Θs = 5° 04′ 25.4″
Ls = 164.00′
LT = 109.38′
ST = 54.71′

PI Sta 87+56.55
Δ = 14° 15′ 04.0″ (LT)
D = 6° 11′ 14.8″
L = 230.32′
T = 115.75′
R = 926.00′
SE = 4%
RO = 164.00′
V = 50 MPH

-Y7-

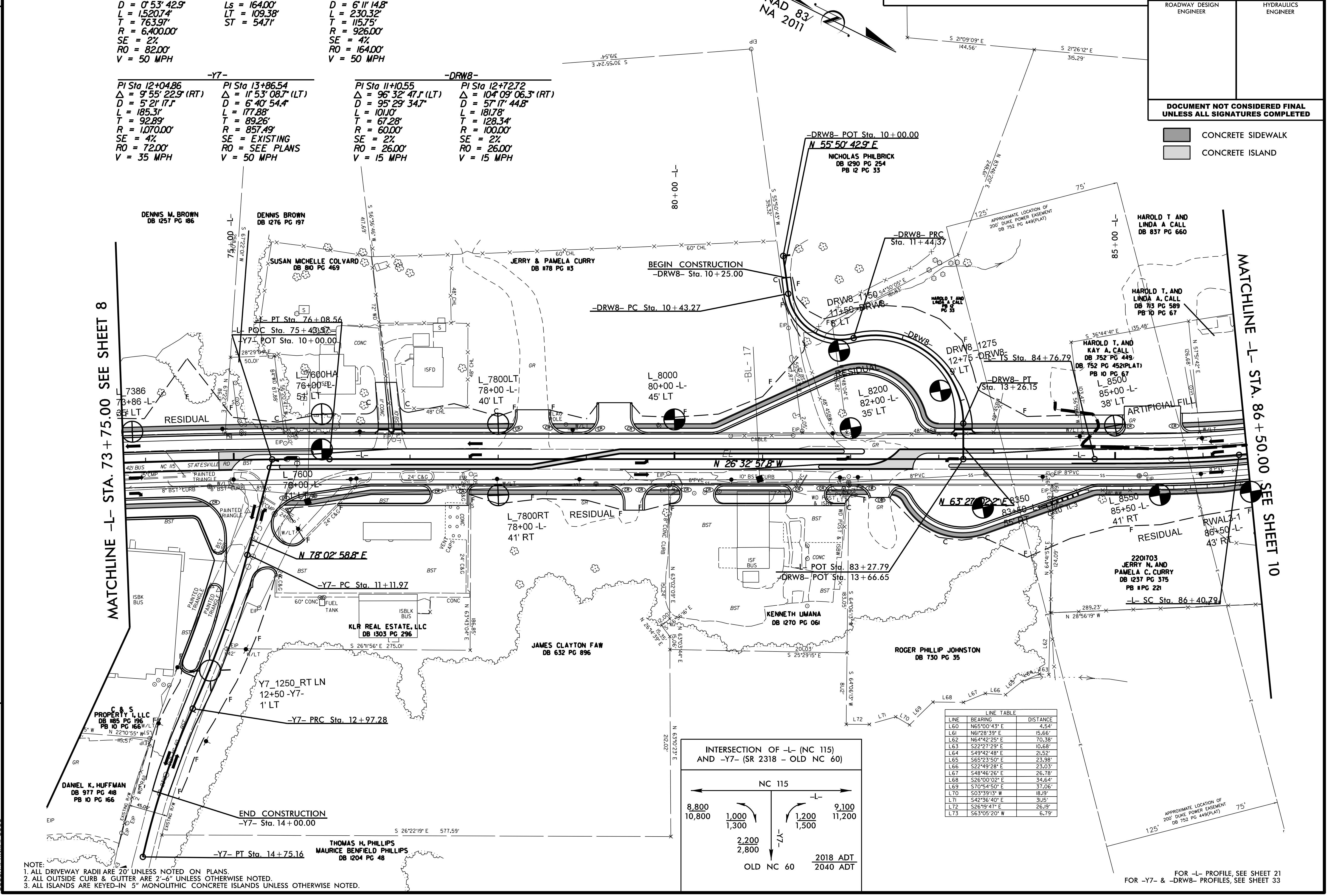
PI Sta 12+04.86
Δ = 9° 55′ 22.9″ (RT)
D = 5° 21′ 17.1″
L = 185.31′
T = 92.89′
R = 1,070.00′
SE = 4%
RO = 72.00′
V = 35 MPH

PI Sta 13+86.54
Δ = 11° 53′ 08.7″ (LT)
D = 6° 40′ 54.4″
L = 177.88′
T = 89.26′
R = 857.49′
SE = EXISTING
RO = SEE PLANS
V = 50 MPH

-DRW8-

PI Sta 11+10.55
Δ = 96° 32′ 47.1″ (LT)
D = 95° 29′ 34.7″
L = 101.10′
T = 67.28′
R = 60.00′
SE = 2%
RO = 26.00′
V = 15 MPH

PI Sta 12+72.72
Δ = 104° 09′ 06.3″ (RT)
D = 57° 17′ 44.8″
L = 181.78′
T = 128.34′
R = 100.00′
SE = 2%
RO = 26.00′
V = 15 MPH


NAD 83/NA 2011
MATCHLINE -L- STA. 73+75.00 SEE SHEET 8
MATCHLINE -L- STA. 86+50.00 SEE SHEET 10
DENNIS M. BROWN DB 1257 PG 186
DENNIS BROWN DB 1276 PG 197
SUSAN MICHELLE COLVARD DB 810 PG 469
JERRY & PAMELA CURRY DB 1178 PG 113
NICHOLAS PHILBRICK DB 1290 PG 254 PB 12 PG 33
HAROLD T AND LINDA A CALL DB 837 PG 660
HAROLD T. AND LINDA A. CALL DB 1113 PG 589 PB 10 PG 67
HAROLD T. AND KAY A. CALL DB 752 PG 449 DB 752 PG 452(PLAT) PB 10 PG 67
2201703 JERRY N. AND PAMELA C. CURRY DB 1237 PG 375 PB 11 PG 221
KLR REAL ESTATE, LLC DB 1303 PG 296
JAMES CLAYTON FAW DB 632 PG 896
KENNETH UMANA DB 1270 PG 061
ROGER PHILLIP JOHNSTON DB 730 PG 35
C & S PROPERTY I, LLC DB 1185 PG 196 PB 10 PG 166
DANIEL K. HUFFMAN DB 977 PG 418 PB 10 PG 166
THOMAS H. PHILLIPS MAURICE BENFIELD PHILLIPS DB 1204 PG 48
APPROXIMATE LOCATION OF 200' DUKE POWER EASEMENT DB 752 PG 449(PLAT)
-DRW8- POT Sta. 10+00.00
N 55° 50′ 42.9″ E
BEGIN CONSTRUCTION -DRW8- Sta. 10+25.00
-DRW8- PC Sta. 10+43.27
-DRW8- PRC Sta. 11+44.37
-DRW8- PT Sta. 13+26.15
-L- TS Sta. 84+76.79
-L- POT Sta. 83+27.79
-DRW8- POT Sta. 13+66.65
-L- SC Sta. 86+40.79
-L- PT Sta. 76+08.56
-L- POC Sta. 75+43.57
-Y7- POT Sta. 10+00.00
-Y7- PC Sta. 11+11.97
-Y7- PRC Sta. 12+97.28
END CONSTRUCTION -Y7- Sta. 14+00.00
-Y7- PT Sta. 14+75.16
N 26° 32′ 57.8″ W
N 78° 02′ 58.8″ E
N 63° 27′ 02.2″ E
L_7386 73+86 -L- 35' LT
L_7600HA 76+00 -L- 53' LT
L_7600 76+00 -L- 41' LT
L_7800LT 78+00 -L- 40' LT
L_7800RT 78+00 -L- 41' RT
L_8000 80+00 -L- 45' LT
L_8200 82+00 -L- 35' LT
L_8350
L_8500 85+00 -L- 38' LT
L_8550 85+50 -L- 41' RT
RWAL3-1 86+50 -L- 43' RT
DRW8_1150 11+50 -DRW8- 8' LT
DRW8_1275 12+75 -DRW8- 9' LT
Y7_1250_RT LN 12+50 -Y7- 1' LT
RESIDUAL
ARTIFICIAL FILL
421 BUS NC 115 STATESVILLE RD
-BL- 17
75+00 -L-
80+00 -L-
85+00 -L-
ISFD
ISF BUS
ISBK BUS
ISBLK BUS
PAINTED TRIANGLE
FUEL TANK
L60 L61 L62 L63 L64 L65 L66 L67 L68 L69 L70 L71 L72 L73

LINE TABLE		
LINE	BEARING	DISTANCE
L60	N65°00′43" E	4.54′
L61	N61°28′39" E	15.66′
L62	N64°42′25" E	70.38′
L63	S22°27′29" E	10.68′
L64	S49°42′48" E	21.52′
L65	S65°23′50" E	23.98′
L66	S22°49′28" E	23.03′
L67	S48°46′26" E	26.78′
L68	S26°00′02" E	34.64′
L69	S70°54′50" E	37.06′
L70	S03°39′13" W	18.19′
L71	S42°36′40" E	31.15′
L72	S26°19′47" E	26.19′
L73	S63°05′20" W	6.79′

INTERSECTION OF -L- (NC 115) AND -Y7- (SR 2318 - OLD NC 60)

NC 115
-L-
8,800
10,800
1,000
1,300
1,200
1,500
9,100
11,200
-Y7-
2,200
2,800
OLD NC 60
2018 ADT
2040 ADT

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 21
FOR -Y7- & -DRW8- PROFILES, SEE SHEET 33

REVISIONS

03-17-2022 PUE ON PARCEL 64 HAS BEEN UPDATED. ORIGINAL PUE WAS REVISED.
10-28-2022 PUE ADJUSTED ON PARCEL 63 & 64.AUE ADDED ON PARCEL 63 & 64.DTK
01-17-2023 TCE ADJUSTED ON PARCEL 70 AROUND NEW DRIVEWAY OFF -L- STA.79+32 LT.DTK
08-16-2023 PARCEL 71 WAS DIVIDED INTO PARCEL 71 AND 71A.PARCEL 71 C/A,PDE,DUE,TCE,PUE WAS ADJUSTED.PARCEL 71A C/A,PDE,DUE,TCE,PUE WAS ADDED.DTK

8/17/99

12-MAR-2024 11:52

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HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

INTERSECTION OF -L- (NC 115) AND -Y9-
(SR 2448 - DAMASCUS CHURCH RD.)

2018 ADT
2040 ADT

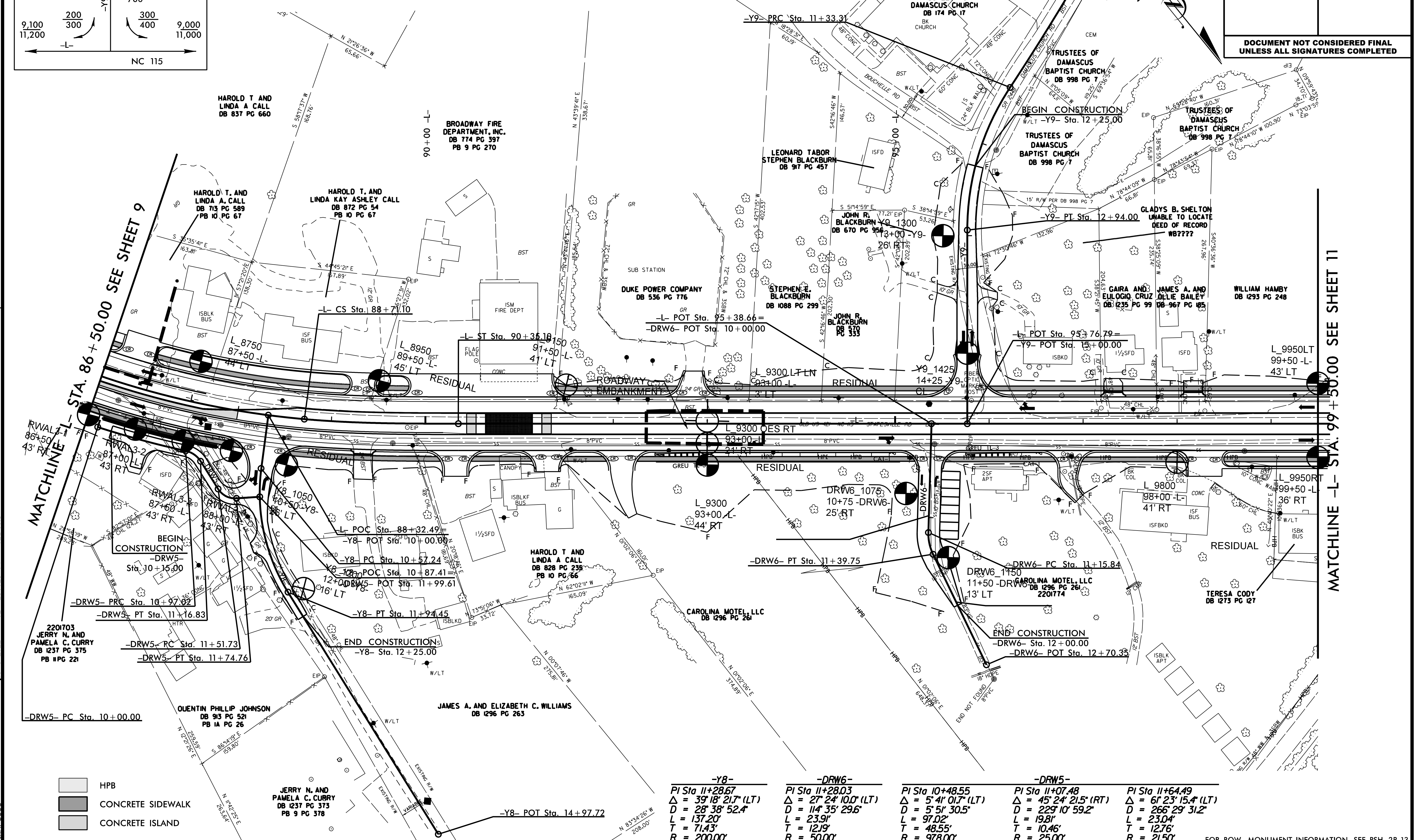
DAMASCUS CHURCH RD.

-Y9-
500/700
200/300
300/400
9,100/11,200
9,000/11,000
-L-
NC 115

-L-		-Y9-	
PI Sta 87+56.55	PIs Sta 89+25.82	PI Sta 10+75.09	PI Sta 12+16.01
Δ = 14° 15′ 01.8″ (LT)	Θs = 5° 04′ 23.1″	Δ = 2° 29′ 01.5″ (RT)	Δ = 33° 24′ 01.9″ (LT)
D = 6° 11′ 14.8″	Ls = 164.00′	D = 2° 07′ 57.7″	D = 20° 47′ 07.4″
L = 230.31′	LT = 109.36′	L = 116.46′	L = 160.69′
T = 115.75′	ST = 54.71′	T = 58.24′	T = 82.70′
R = 926.00′		R = 2,686.56′	R = 275.65′
SE = 4%		SE = EXISTING	SE = EXISTING
RO = 164.00′		RO = SEE PLANS	RO = SEE PLANS
V = 50 MPH		V = 75 MPH	V = 30 MPH

REVISIONS

03-17-2022	PUE ON PARCEL 73 & 74 WAS ON BUILDINGS.THIS HAS BEEN UPDATED AND NOW NO LONGER IMPACTS THE BUILDINGS.THE • ON 73 AND 74 WAS REMOVED AS THEY ARE RELEASED FOR PURCHASE.
03-18-2022	PARCEL NUMBERS REVISED. PARCEL 72 CORRECTED TO 73.PARCEL 73 CORRECTED TO 73A
05-25-2022	PUE REVISED/ADDED AND PDE CHANGED TO DUE ON PARCEL 78 AND 79.DTK
06-16-2022	TCE REDUCED ON PARCEL 88.DTK
01-19-2023	TCE ADDED ON PARCEL 87.NEW DRIVEWAY FOR PARCEL.DTK
08-16-2023	COMBINED PARCELS 87 AND 88 INTO 87.PARCEL 88 IS NO CLAIM.DTK



NAD 83/ NA 2011
MATCHLINE -L- STA. 86+50.00 SEE SHEET 9
MATCHLINE -L- STA. 99+50.00 SEE SHEET 11
HAROLD T AND LINDA A CALL DB 837 PG 660
HAROLD T. AND LINDA A. CALL DB 713 PG 589 PB 10 PG 67
HAROLD T. AND LINDA KAY ASHLEY CALL DB 872 PG 54 PB 10 PG 67
BROADWAY FIRE DEPARTMENT, INC. DB 774 PG 397 PB 9 PG 270
TRUSTEES FOR DAMASCUS CHURCH DB 174 PG 17
TRUSTEES OF DAMASCUS BAPTIST CHURCH DB 998 PG 7
LEONARD TABOR STEPHEN BLACKBURN DB 917 PG 457
JOHN R. BLACKBURN DB 670 PG 956
STEPHEN E. BLACKBURN DB 1088 PG 299
JOHN R. BLACKBURN DB 570 PG 333
DUKE POWER COMPANY DB 536 PG 776
GLADYS B. SHELTON UNABLE TO LOCATE DEED OF RECORD WB????
GAIRA AND EULOGIO CRUZ DB 1235 PG 99
JAMES A. AND OLLIE BAILEY DB 967 PG 185
WILLIAM HAMBY DB 1293 PG 248
TERESA CODY DB 1273 PG 127
CAROLINA MOTEL, LLC DB 1296 PG 261 2201774
HAROLD T AND LINDA A CALL DB 828 PG 235 PB 10 PG 66
JAMES A. AND ELIZABETH C. WILLIAMS DB 1296 PG 263
QUENTIN PHILLIP JOHNSON DB 913 PG 521 PB 1A PG 26
2201703 JERRY N. AND PAMELA C. CURRY DB 1237 PG 375 PB 11 PG 221
JERRY N. AND PAMELA C. CURRY DB 1237 PG 373 PB 9 PG 378
-Y9- POT Sta. 10+00.00
-Y9- PC Sta. 10+16.85
-Y9- PRC Sta. 11+33.31
BEGIN CONSTRUCTION -Y9- Sta. 12+25.00
-Y9- PT Sta. 12+94.00
-L- POT Sta. 95+76.79 = -Y9- POT Sta. 15+00.00
-L- CS Sta. 88+71.10
-L- ST Sta. 90+36.10
-L- POT Sta. 95+38.66 = -DRW6- POT Sta. 10+00.00
-L- POC Sta. 88+32.49 = -Y8- POT Sta. 10+00.00
-Y8- PC Sta. 10+57.24
-Y8- PT Sta. 11+94.45
END CONSTRUCTION -Y8- Sta. 12+25.00
-Y8- POT Sta. 14+97.72
-DRW6- PT Sta. 11+39.75
-DRW6- PC Sta. 11+15.84
END CONSTRUCTION -DRW6- Sta. 12+00.00
-DRW6- POT Sta. 12+70.35
BEGIN CONSTRUCTION -DRW5- Sta. 10+15.00
-DRW5- PRC Sta. 10+97.92
-DRW5- PT Sta. 11+16.83
-DRW5- RC Sta. 11+51.73
-DRW5- PT Sta. 11+74.76
-DRW5- PC Sta. 10+00.00
-DRW5- POT Sta. 11+99.61
L_8750 87+50 -L- 44′ LT
L_8950 89+50 -L- 45′ LT
91+50 -L- 41′ LT
L_9300 LT LN 93+00 -L- 3′ LT
Y9_1300 13+00 -Y9- 26′ RT
Y9_1425 14+25 -Y9- CL
L_9950LT 99+50 -L- 43′ LT
L_9300 OES RT 93+00 -L- 21′ RT
L_9300 93+00 -L- 44′ RT
DRW6_1075 10+75 -DRW6- 25′ RT
DRW6_1150 11+50 -DRW6- 13′ LT
L_9800 98+00 -L- 41′ RT
L_9950RT 99+50 -L- 36′ RT
RWAL1-1 86+50 43′ RT
RWAL3-2 87+00 -L- 43′ RT
RWAL3-3 87+50 -L- 43′ RT
RWAL3 88+00 -L- 43′ RT
Y8_1050 10+50 -Y8- 16′ LT
Y8_1200 12+00 -Y8- 16′ LT
ROADWAY EMBANKMENT
RESIDUAL
SUB STATION
ISM FIRE DEPT
CANOPY
ISFD
ISBLK BUS
ISF BUS
ISBKD
1 1/2 SFD
2SF APT
ISF BUS
ISBK BUS
ISBLK APT
ISBLKD
ISBLKF BUS
BK CHURCH
CEM
BOUCHELLE RD
DAMASCUS CHURCH RD
EXISTING R/W
HPB
GREU

Legend	
▭	HPB
▨	CONCRETE SIDEWALK
▭	CONCRETE ISLAND

NOTE:
1. ALL DRIVEWAY RADII ARE 20′ UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2′-6″ UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5″ MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. -DRW6- RT TURN ISD WILL NEED FURTHER INVESTIGATION.

-Y8-	-DRW6-	-DRW5-		
PI Sta 11+28.67	PI Sta 11+28.03	PI Sta 10+48.55	PI Sta 11+07.48	PI Sta 11+64.49
Δ = 39° 18′ 21.7″ (LT)	Δ = 27° 24′ 10.0″ (LT)	Δ = 5° 41′ 01.7″ (LT)	Δ = 45° 24′ 21.5″ (RT)	Δ = 61° 23′ 15.4″ (LT)
D = 28° 38′ 52.4″	D = 114° 35′ 29.6″	D = 5° 51′ 30.5″	D = 229° 10′ 59.2″	D = 266° 29′ 31.2″
L = 137.20′	L = 23.91′	L = 97.02′	L = 19.81′	L = 23.04′
T = 71.43′	T = 12.19′	T = 48.55′	T = 10.46′	T = 12.76′
R = 200.00′	R = 50.00′	R = 978.00′	R = 25.00′	R = 21.50′
SE = 2%	SE = N/A	SE = N/A	SE = N/A	SE = N/A
RO = 32.00′	RO = N/A	RO = N/A	RO = N/A	RO = N/A
V = 15 MPH	V = 15 MPH	V = <15 MPH	V = <15 MPH	V = <15 MPH

FOR ROW MONUMENT INFORMATION SEE PSH 28-13
FOR -L- PROFILE, SEE SHEETS 21 & 22
FOR -Y8- PROFILE, SEE SHEET 34
FOR -DRW5- PROFILE, SEE SHEET 34
FOR -DRW6- PROFILE, SEE SHEET 35
FOR -Y9- PROFILE, SEE SHEET 35

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-

PI Sta 102+19.43
Δ = 5° 00' 00.0" (LT)
D = 2° 51' 53.2"
L = 174.53'
T = 87.32'
R = 2,000.00'
SE = 3%
RO = 105.00'
V = 45 MPH

PI Sta 107+58.11
Δ = 1° 42' 48.0" (RT)
D = 0° 57' 17.7"
L = 179.42'
T = 89.72'
R = 6,000.00'
SE = 2%
RO = 70.00'
V = 45 MPH

-Y10-

PI Sta 12+61.89
Δ = 25° 22' 13.1" (RT)
D = 8° 29' 17.7"
L = 298.89'
T = 151.93'
R = 675.00'
SE = 6%
RO = 102.00'
V = 35 MPH

PI Sta 15+89.25
Δ = 85° 32' 52.0" (LT)
D = 29° 22' 56.8"
L = 291.15'
T = 180.41'
R = 195.00'
SE = 6%
RO = 102.00'
V = 20 MPH

-Y11-

PI Sta 12+35.32
Δ = 28° 53' 49.0" (LT)
D = 8° 11' 06.4"
L = 353.04'
T = 180.36'
R = 700.00'
SE = 4%
RO = 80.00'
V = 25 MPH

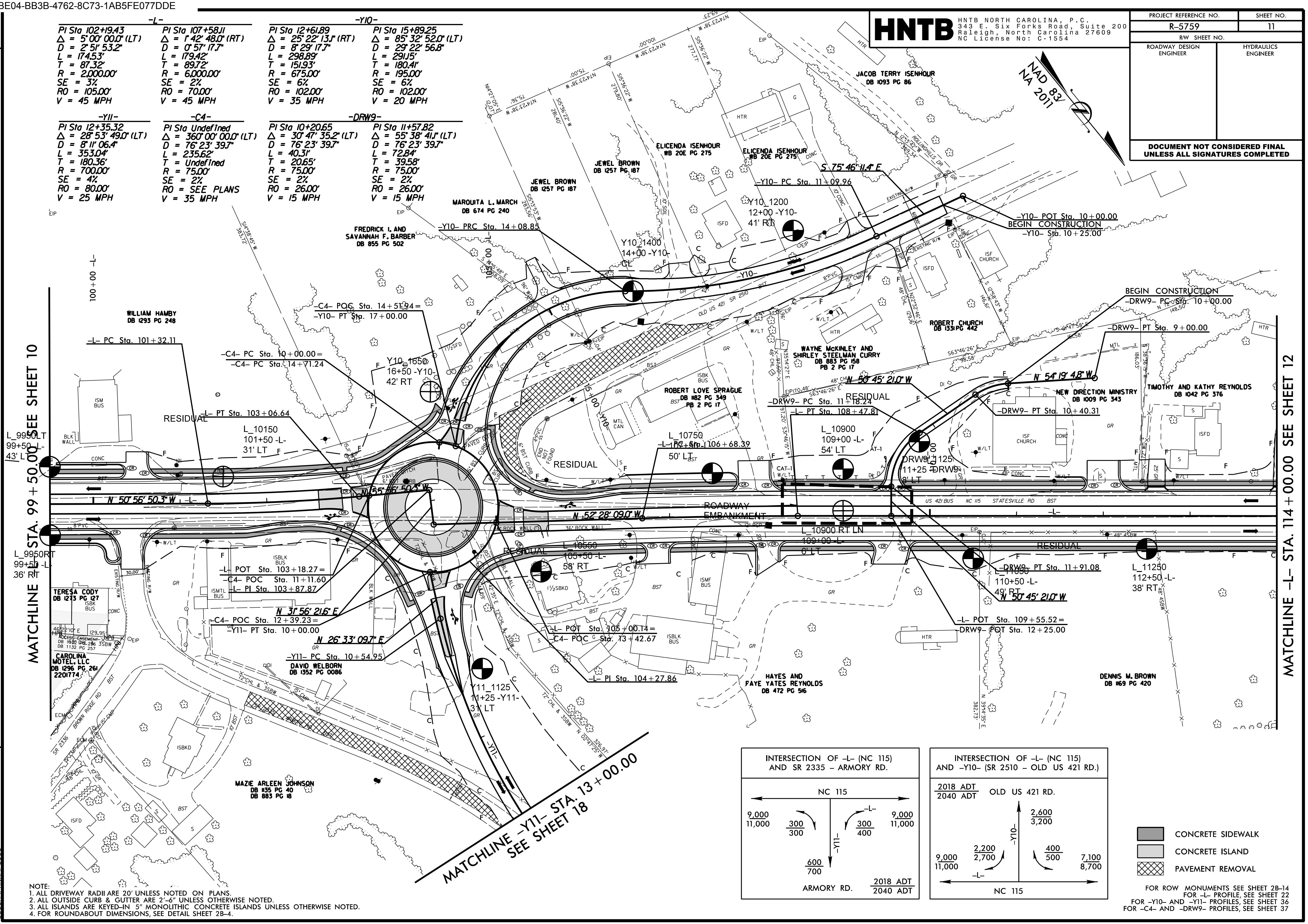
-C4-

PI Sta Undefined
Δ = 360° 00' 00.0" (LT)
D = 76° 23' 39.7"
L = 235.62'
T = Undefined
R = 75.00'
SE = 2%
RO = SEE PLANS
V = 35 MPH

-DRW9-

PI Sta 10+20.65
Δ = 30° 47' 35.2" (LT)
D = 76° 23' 39.7"
L = 40.31'
T = 20.65'
R = 75.00'
SE = 2%
RO = 26.00'
V = 15 MPH

PI Sta 11+57.82
Δ = 55° 38' 41.1" (LT)
D = 76° 23' 39.7"
L = 72.84'
T = 39.58'
R = 75.00'
SE = 2%
RO = 26.00'
V = 15 MPH


NAD 83/ NA 2011
MATCHLINE -L- STA. 99+50.00 SEE SHEET 10
MATCHLINE -L- STA. 114+00.00 SEE SHEET 12
MATCHLINE -Y11- STA. 13+00.00 SEE SHEET 18
-Y10- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y10- Sta. 10+25.00
-Y10- PC Sta. 11+09.96
S 75° 46' 11.4" E
-Y10- PRC Sta. 14+08.85
-C4- POC Sta. 14+51.94 =
-Y10- PT Sta. 17+00.00
-L- PC Sta. 101+32.11
-C4- PC Sta. 10+00.00 =
-C4- PC Sta. 14+71.24
-L- PT Sta. 103+06.64
N 50° 56' 50.3" W
N 55° 56' 50.3" W
N 52° 28' 09.0" W
-L- POT Sta. 103+18.27 =
-C4- POC Sta. 11+11.60
-L- PI Sta. 103+87.87
N 31° 56' 21.6" E
-C4- POC Sta. 12+39.23 =
-Y11- PT Sta. 10+00.00
N 26° 33' 09.7" E
-Y11- PC Sta. 10+54.95
-L- POT Sta. 105+00.14 =
-C4- POC Sta. 13+42.67
-L- PI Sta. 104+27.86
-L- PC Sta. 106+68.39
-DRW9- PC Sta. 11+18.24
-L- PT Sta. 108+47.81
N 50° 45' 21.0" W
N 54° 19' 4.8" W
-DRW9- PT Sta. 10+40.31
BEGIN CONSTRUCTION
-DRW9- PC Sta. 10+00.00
-DRW9- PT Sta. 9+00.00
-DRW9- PT Sta. 11+91.08
N 50° 45' 21.0" W
-L- POT Sta. 109+55.52 =
-DRW9- POT Sta. 12+25.00
L_9950LT 99+50 -L- 43' LT
L_9950RT 99+50 -L- 36' RT
L_10150 101+50 -L- 31' LT
L_10550 105+50 -L- 58' RT
L_10750 107+50 -L- 50' LT
L_10900 109+00 -L- 54' LT
L_10900 RT LN 109+00 -L- 6' LT
L_11050 110+50 -L- 49' RT
L_11250 112+50 -L- 38' RT
Y10_1200 12+00 -Y10- 41' RT
Y10_1400 14+00 -Y10- 40' LT
Y10_1650 16+50 -Y10- 42' RT
Y11_1125 11+25 -Y11- 31' LT
DRW9_1125 11+25 -DRW9- 8' LT
RESIDUAL
ROADWAY EMBANKMENT
US 421 BUS NC 115 STATESVILLE RD BST
OLD US 421 SR 2510
JACOB TERRY ISENHOUR DB 1093 PG 86
ELICENDA ISENHOUR WB 20E PG 275
JEWEL BROWN DB 1257 PG 187
MAROUITA L. MARCH DB 674 PG 240
FREDRICK I. AND SAVANNAH F. BARBER DB 855 PG 502
WILLIAM HAMBY DB 1293 PG 248
ROBERT CHURCH DB 1331 PG 442
WAYNE McKINLEY AND SHIRLEY STEELMAN CURRY DB 883 PG 158 PB 2 PG 17
ROBERT LOVE SPRAGUE DB 1182 PG 349 PB 2 PG 17
NEW DIRECTION MINISTRY DB 1009 PG 343
TIMOTHY AND KATHY REYNOLDS DB 1042 PG 376
TERESA CODY DB 1273 PG 127
CAROLINA MOTEL, LLC DB 1296 PG 261 2201774
DAVID WELBORN DB 1352 PG 0086
HAYES AND FAYE YATES REYNOLDS DB 472 PG 516
DENNIS M. BROWN DB 1169 PG 420
MAZIE ARLEEN JOHNSON DB 1135 PG 40 DB 883 PG 18
ROLLINGHILLS DR
BROWN RIDGE RD
ISF CHURCH
INTERSECTION OF -L- (NC 115) AND SR 2335 - ARMORY RD.
NC 115
9,000 / 11,000
300 / 300
300 / 400
9,000 / 11,000
600 / 700
-Y11-
-L-
ARMORY RD.
2018 ADT / 2040 ADT
INTERSECTION OF -L- (NC 115) AND -Y10- (SR 2510 - OLD US 421 RD.)
2018 ADT / 2040 ADT
OLD US 421 RD.
2,600 / 3,200
-Y10-
2,200 / 2,700
400 / 500
9,000 / 11,000
7,100 / 8,700
-L-
NC 115

▩	CONCRETE SIDEWALK
░	CONCRETE ISLAND
▨	PAVEMENT REMOVAL

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. FOR ROUNDABOUT DIMENSIONS, SEE DETAIL SHEET 2B-4.

FOR ROW MONUMENTS SEE SHEET 2B-14
FOR -L- PROFILE, SEE SHEET 22
FOR -Y10- AND -Y11- PROFILES, SEE SHEET 36
FOR -C4- AND -DRW9- PROFILES, SEE SHEET 37

REVISIONS

03-17-2022 THE * ON PARCELS 95 & 97-99 HAS BEEN REMOVED AS THESE PARCELS ARE RELEASED FOR PURCHASE.ON PARCEL 99 THE PUE WAS REVISED.
05-25-2022 PUE ADDED ON PARCEL 99.PUE REVISED ON PARCEL 92 AND 93.DTK
08-16-2023 PARCEL 94 DIVIDED INTO PARCEL 94 AND 94A.PARCEL 94 ADJUSTED ROW.PARCEL 94A ADDED ROW AND TCE. COMBINED PARCELS 87 AND 88 INTO 87.PARCEL 88 IS NO CLAIM.DTK

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

▩	CONCRETE SIDEWALK
▨	CONCRETE ISLAND

8/17/99

REVISIONS

05-25-2022 PUE REVISED ON PARCELS 93,110,111,112,113,114,115,AND 116.DTK
10-28-2022 PUE REVISED ON PARCEL 113.DTK
08-16-2023 PARCEL 117 DIVIDED INTO 117A AND 117.PARCEL 117 PUE,ROW,& TCE ADJUSTED,PARCEL 117A ROW,PUE,& TCE ADDED.DTK

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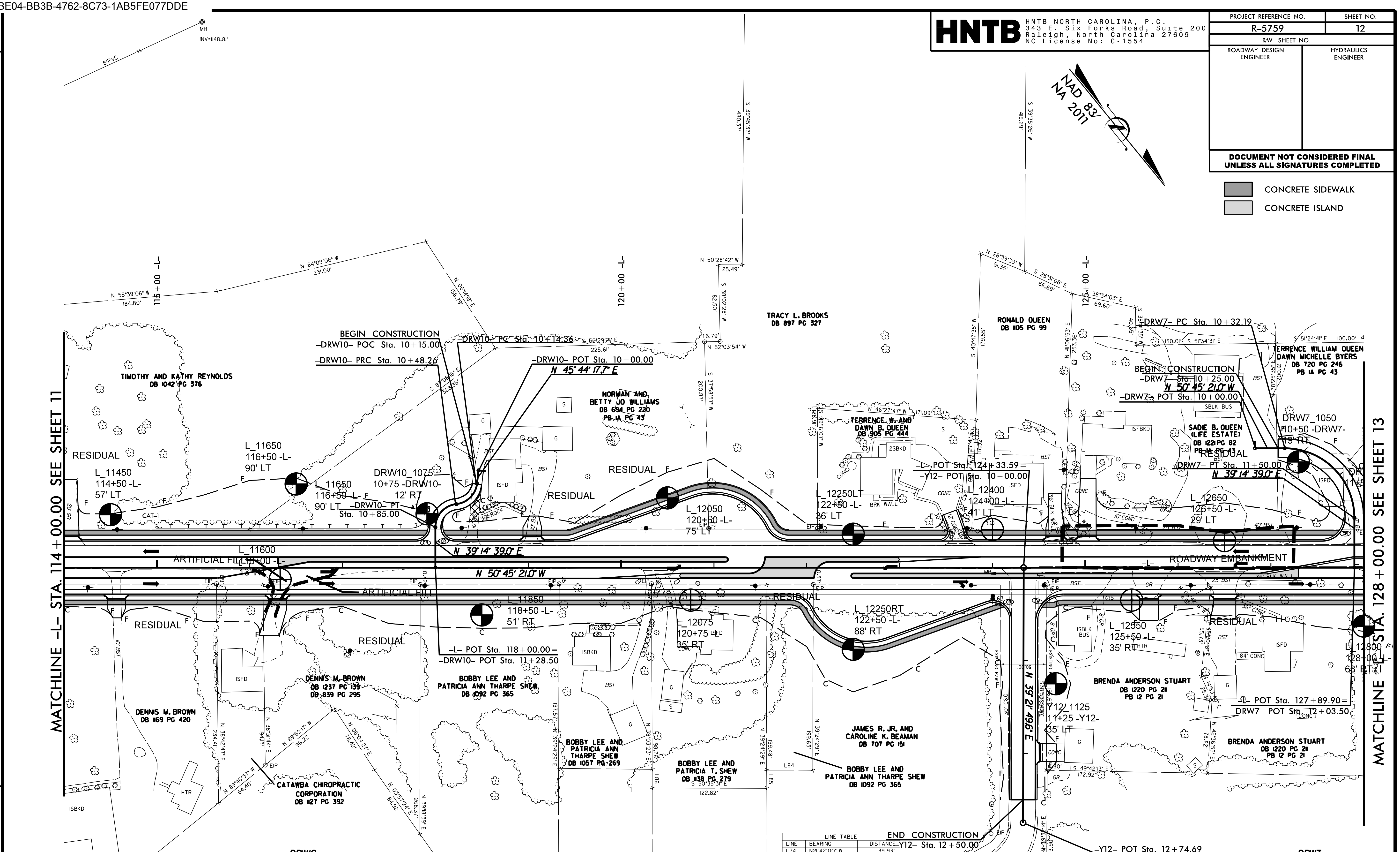

LINE TABLE		
LINE	BEARING	DISTANCE
L74	N21°42'00" W	39.93'
L75	N48°49'00" W	39.76'
L76	N80°53'00" W	55.66'
L77	N11°58'00" W	27.55'
L78	S39°23'43" W	1.47'
L79	N39°15'50" E	10.78'
L80	S89°33'24" E	35.06'
L81	NOT USED	
L82	NOT USED	
L83	NOT USED	
L84	S50°35'31" E	50.00'
L85	N39°24'49" E	19.62'
L86	N39°11'24" E	19.99'
L87	S50°04'46" E	100.76'

-DRW10-

PI Sta 10+34.49	PI Sta 10+70.85
Δ = 77° 42' 12.9" (RT)	Δ = 84° 11' 51.7" (LT)
D = 229° 10' 59.2"	D = 229° 10' 59.2"
L = 33.90'	L = 36.74'
T = 20.14'	T = 22.59'
R = 25.00'	R = 25.00'
SE = EXISTING	SE = EXISTING
RO = SEE PLANS	RO = SEE PLANS
V = >15 MPH	V = >15 MPH

-DRW7-

PI Sta 11+07.19
Δ = 90° 00' 00.0" (RT)
D = 76° 23' 39.7"
L = 117.81'
T = 75.00'
R = 75.00'
SE = EXISTING
RO = SEE PLANS
V = 15 MPH

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEETS 22 & 23
FOR -Y12- PROFILE, SEE SHEET 37
FOR -DRW7- PROFILE, SEE SHEET 37
FOR -DRW10- PROFILE, SEE SHEET 38

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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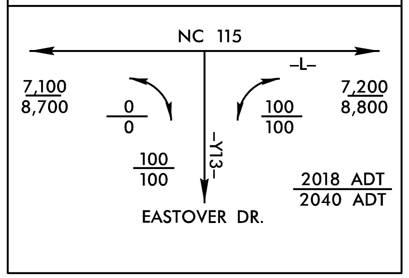
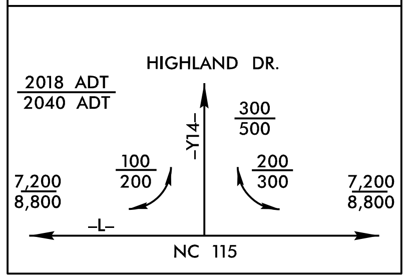
NOTE:
1. ALL DRIVEWAY RADII ARE 20′ UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2′-6″ UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5″ MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.
4. -Y13- RT TURN ISD WILL NEED FURTHER INVESTIGATION.
5. -Y14- RT TURN ISD WILL NEED FURTHER INVESTIGATION.

INTERSECTION OF -L- (NC 115) AND -Y13- (EASTOVER DR.)

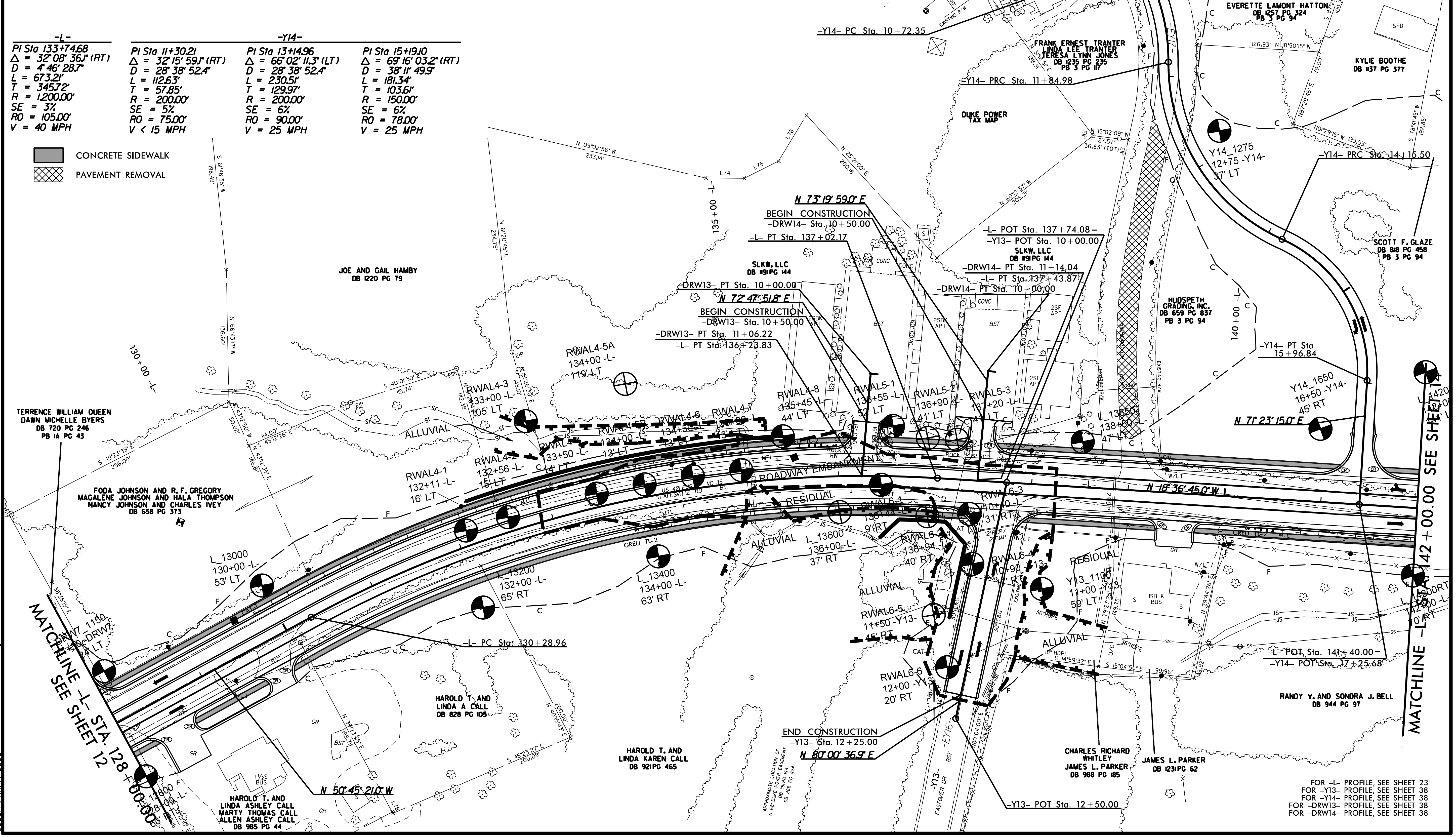


INTERSECTION OF -L- (NC 115) AND -Y14- (HIGHLAND DR.)



-L-	-Y14-		
PI Sta 133+74.68	PI Sta 11+30.21	PI Sta 13+14.96	PI Sta 15+19.10
Δ = 32° 08′ 36.1″ (RT)	Δ = 32° 15′ 59.1″ (RT)	Δ = 66° 02′ 11.3″ (LT)	Δ = 69° 16′ 03.2″ (RT)
D = 4° 46′ 28.7″	D = 28° 38′ 52.4″	D = 28° 38′ 52.4″	D = 38° 11′ 49.9″
L = 673.21′	L = 112.63′	L = 230.51′	L = 181.34′
T = 345.72′	T = 57.85′	T = 129.97′	T = 103.61′
R = 1,200.00′	R = 200.00′	R = 200.00′	R = 150.00′
SE = 3%	SE = 5%	SE = 6%	SE = 6%
RO = 105.00′	RO = 75.00′	RO = 90.00′	RO = 78.00′
V = 40 MPH	V < 15 MPH	V = 25 MPH	V = 25 MPH

▩	CONCRETE SIDEWALK
▨	PAVEMENT REMOVAL



FOR -L- PROFILE, SEE SHEET 23
FOR -Y13- PROFILE, SEE SHEET 38
FOR -Y14- PROFILE, SEE SHEET 38
FOR -DRW13- PROFILE, SEE SHEET 38
FOR -DRW14- PROFILE, SEE SHEET 38

REVISIONS

05-25-2022 PUE REVISED AND TCE REMOVED ON PARCEL 126.
08-16-2023 PARCEL 117 DIVIDED INTO 117A AND 117. PARCEL 117 PUE, ROW, & TCE ADJUSTED. PARCEL 117A ROW, PUE, & TCE ADDED.
10-12-2023 PARCEL 123 AND 124 COMBINED INTO PARCEL 123. PARCEL 124 IS NO CLAIM. DTK
TCE ADDED ON PARCEL 126.

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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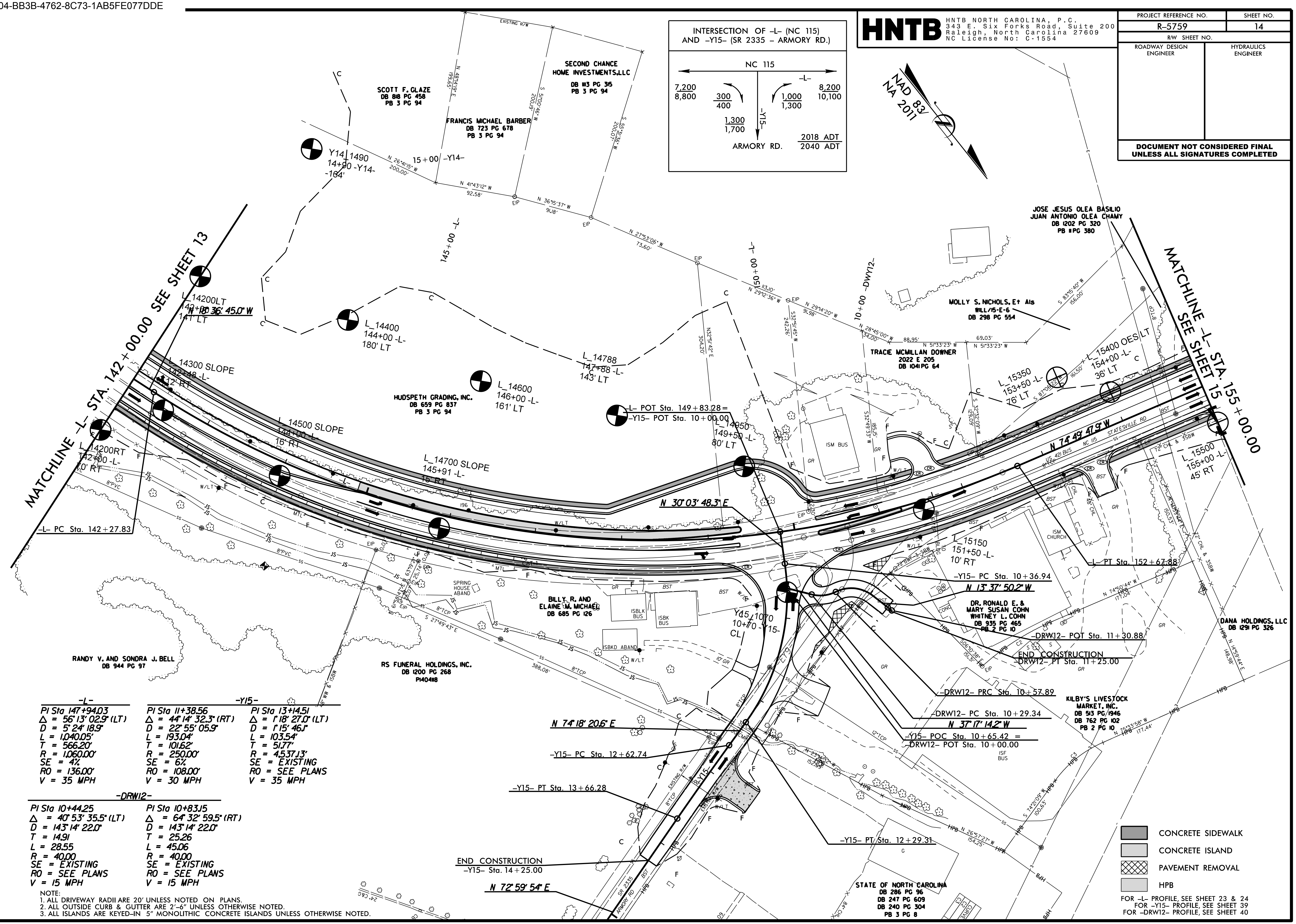
REVISIONS

03-17-2022	ON PARCEL 122 ADITIONAL EASEMENT IS NEEDED FOR DRAINAGE RIP RAP UPDATE.
05-25-2022	PDE REVISED AND TCE REDUCED ON PARCELS 136 AND 137.TCE REVISED ON PARCEL 144.PUE REVISED ON PARCEL 143. PDE MONUMENT REVISED ON PARCEL 142.REVISED PDE AND PUE TO DUE ON PARCEL 138.DTK
08-16-2022	COMBINED PARCEL 134,135,136 INTO PARCEL 134.PARCEL 135 & 136 NO CLAIM.DTK



-L-

PI Sta 147+94.03
Δ = 56° 13' 02.9" (LT)
D = 5° 24' 18.9"
L = 1,040.05'
T = 566.20'
R = 1,060.00'
SE = 4%
RO = 136.00'
V = 35 MPH

-Y15-

PI Sta 11+38.56
Δ = 44° 14' 32.3" (RT)
D = 22° 55' 05.9"
L = 193.04'
T = 101.62'
R = 250.00'
SE = 6%
RO = 108.00'
V = 30 MPH

PI Sta 13+14.51
Δ = 1° 18' 27.0" (LT)
D = 1° 15' 46.1"
L = 103.54'
T = 51.77'
R = 4,537.13'
SE = EXISTING
RO = SEE PLANS
V = 35 MPH

-DRW12-

PI Sta 10+44.25
Δ = 40° 53' 35.5" (LT)
D = 143° 14' 22.0"
T = 14.91
L = 28.55
R = 40.00
SE = EXISTING
RO = SEE PLANS
V = 15 MPH

PI Sta 10+83.15
Δ = 64° 32' 59.5" (RT)
D = 143° 14' 22.0"
T = 25.26
L = 45.06
R = 40.00
SE = EXISTING
RO = SEE PLANS
V = 15 MPH

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

▨	CONCRETE SIDEWALK
▨	CONCRETE ISLAND
▨	PAVEMENT REMOVAL
▨	HPB

FOR -L- PROFILE, SEE SHEET 23 & 24
FOR -Y15- PROFILE, SEE SHEET 39
FOR -DRW12- PROFILE, SEE SHEET 40

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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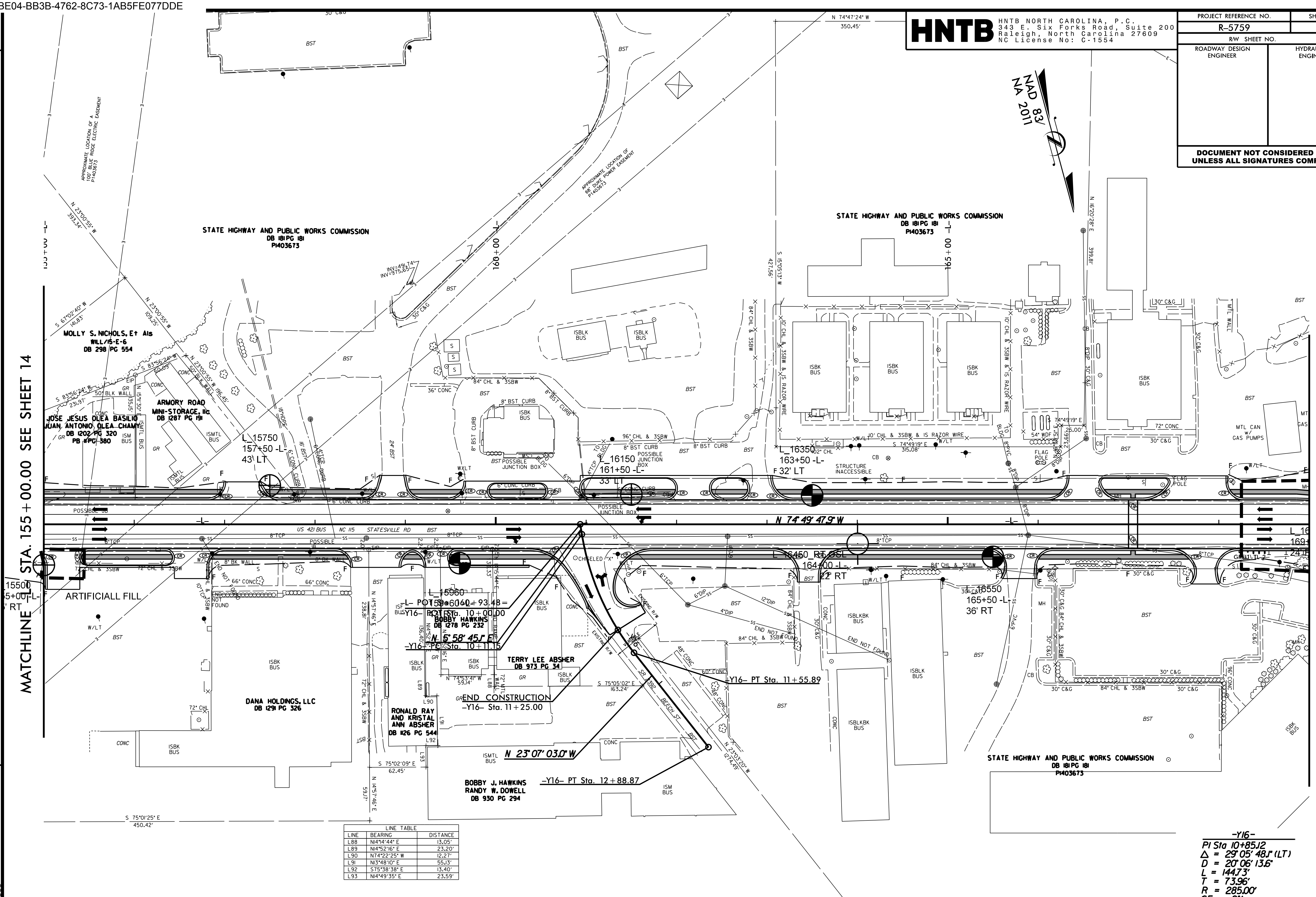
REVISIONS

05-25-2022 PUE AND TCE REVISED ON PARCEL 144, TCE, PDE AND DUE REVISED ON PARCEL 146, PUE WAS REMOVED AND TCE REVISED ON PARCELS 147 & 148. DMW

12-02-2022 PROPERTY LINE CHANGED FOR PARCEL 148 THAT CREATED NEW PARCEL 148A, ROW AND TCE REDUCED ON PARCEL 148. DMW


MATCHLINE -L- STA. 155+00.00 SEE SHEET 14
MATCHLINE -L- STA. 169+00.00 SEE SHEET 16
NAD 83/ NA 2011
STATE HIGHWAY AND PUBLIC WORKS COMMISSION DB 181 PG 181 P1403673
MOLLY S. NICHOLS, Et Als WILL/15-E-6 DB 298 PG 554
JOSE JESUS OLEA BASILIO JUAN ANTONIO OLEA CHAMY DB 1202 PG 320 PB #PG-380
ARMORY ROAD MINI-STORAGE, llc DB 1287 PG 191
DANA HOLDINGS, LLC DB 1291 PG 326
BOBBY HAWKINS DB 1278 PG 232
TERRY LEE ABSHER DB 973 PG 34
RONALD RAY AND KRISTAL ANN ABSHER DB 1126 PG 544
BOBBY J. HAWKINS RANDY W. DOWELL DB 930 PG 294
US 421 BUS NC 115 STATESVILLE RD BST
N 74°49'47.9" W
-L- POT Sta. 160+93.48 = -Y16- POT Sta. 10+00.00
N 6°58'45.1" E
-Y16- PC Sta. 10+11.15
-Y16- PT Sta. 11+55.89
END CONSTRUCTION -Y16- Sta. 11+25.00
N 23°07'03.0" W
-Y16- PT Sta. 12+88.87
BEECH ST
L_15750 157+50 -L- 43' LT
L_16150 161+50 -L- 33' LT
L_16350 163+50 -L- 32' LT
L_16450 RT OSL 164+00 -L- 22' RT
L_16550 165+50 -L- 36' RT
L_15960 159+60 -L-
L_15500 155+00 -L-
ARTIFICIALL FILL
STRUCTURE INACCESSIBLE
POSSIBLE JUNCTION BOX
APPROXIMATE LOCATION OF A 100' BLUE RIDGE ELECTRIC EASEMENT P1403673
APPROXIMATE LOCATION OF 68' DUKE POWER EASEMENT P1403673

LINE TABLE		
LINE	BEARING	DISTANCE
L88	N14°14'44" E	13.05'
L89	N14°52'16" E	23.20'
L90	N74°22'25" W	12.27'
L91	N13°48'10" E	55.13'
L92	S75°38'38" E	13.40'
L93	N14°49'35" E	23.59'

▨	CONCRETE SIDEWALK

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

-Y16-

PI Sta 10+85.12
Δ = 29°05'48.1" (LT)
D = 20°06'13.6"
L = 144.73'
T = 73.96'
R = 285.00'
SE = 2%
RO = 38.00'
V = 25 MPH

FOR -L- PROFILE, SEE SHEET 24
FOR -Y16- PROFILE, SEE SHEET 39

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	16

RW SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

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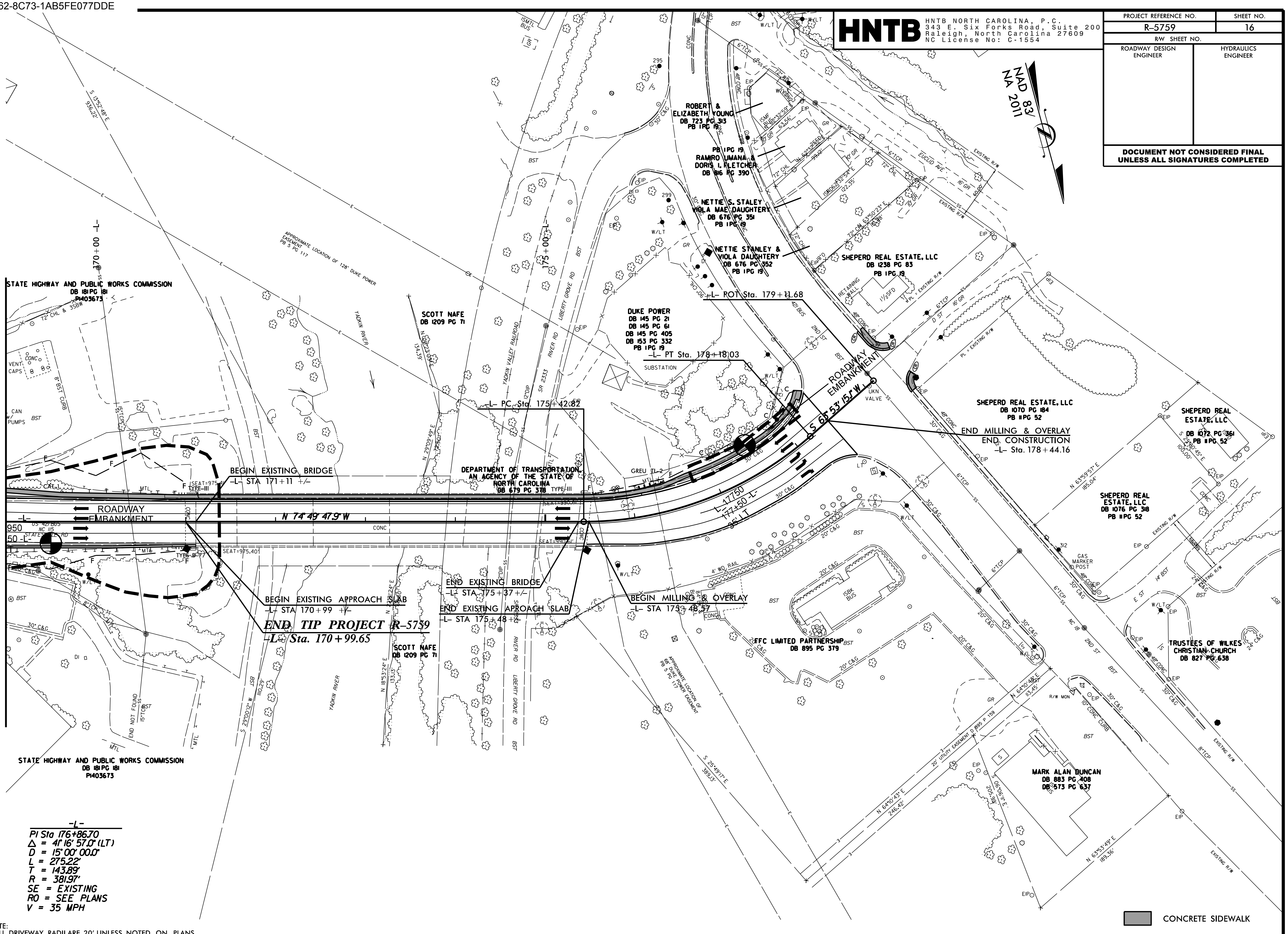
REVISIONS



-L-

PI Sta 176+86.70
Δ = 41° 16' 57.0" (LT)
D = 15° 00' 00.0"
L = 275.22'
T = 143.89'
R = 381.97'
SE = EXISTING
RO = SEE PLANS
V = 35 MPH

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

▨ CONCRETE SIDEWALK

FOR -L- PROFILE, SEE SHEET 24

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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-Y2-

PI Sta 12+45.36
△ = 91° 19′ 50.9″ (RT)
D = 114° 35′ 29.6″
L = 79.70′
T = 51.18′
R = 50.00′
SE = EXISTING
RO = SEE PLANS
V = 25 MPH

PI Sta 13+82.19
△ = 47° 45′ 47.3″ (RT)
D = 57° 17′ 44.8″
L = 83.36′
T = 44.28′
R = 100.00′
SE = EXISTING
RO = SEE PLANS
V = 25 MPH

PI Sta 14+68.29
△ = 50° 21′ 54.5″ (LT)
D = 57° 17′ 44.8″
L = 87.90′
T = 47.02′
R = 100.00′
SE = EXISTING
RO = SEE PLANS
V = 25 MPH

PI Sta 17+06.13
△ = 102° 58′ 13.3″ (RT)
D = 62° 16′ 40.9″
L = 165.34′
T = 115.60′
R = 92.00′
SE = 4%
RO = 80.00′
V = 25 MPH

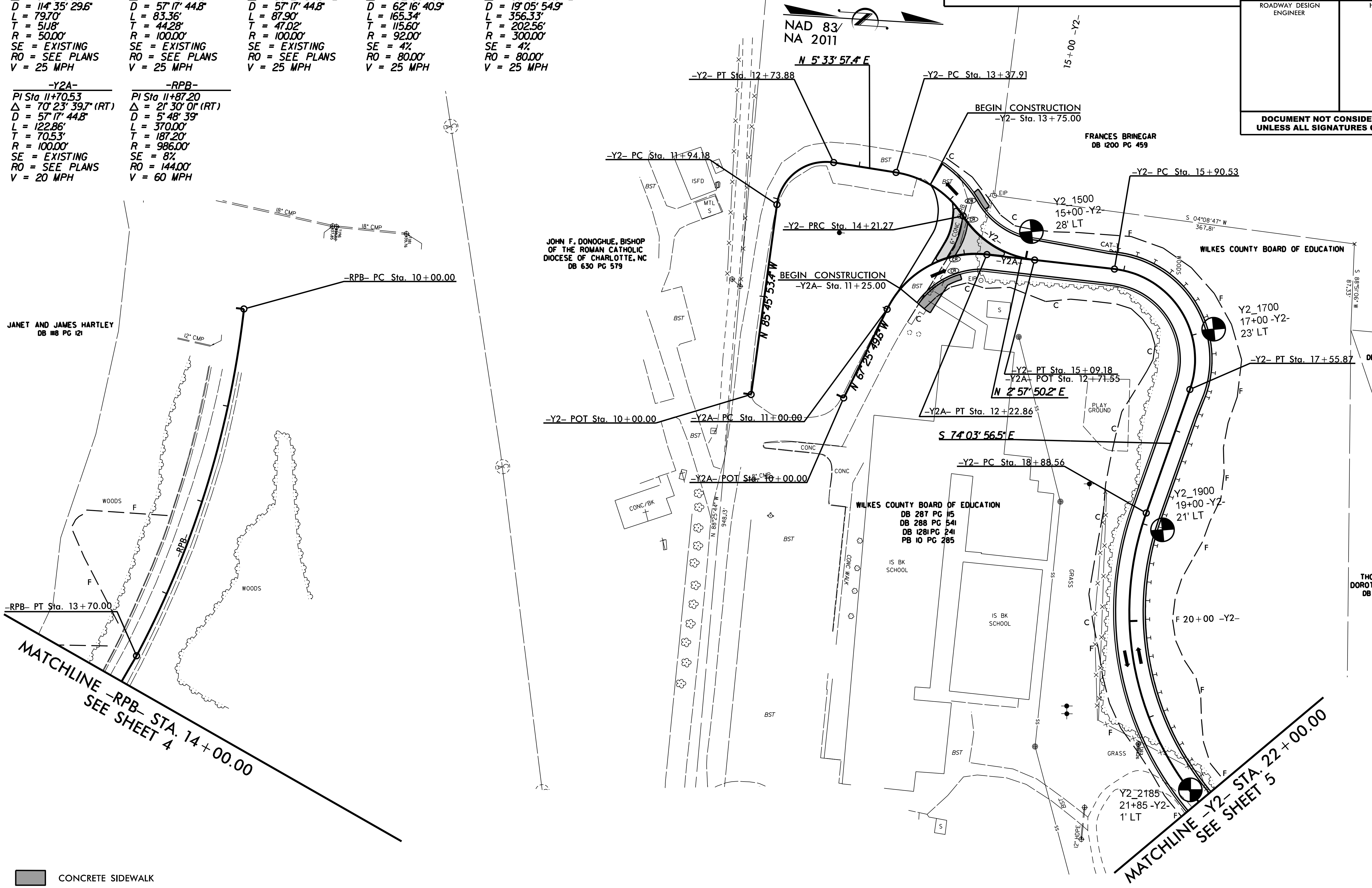
PI Sta 20+91.12
△ = 68° 03′ 16.6″ (LT)
D = 19° 05′ 54.9″
L = 356.33′
T = 202.56′
R = 300.00′
SE = 4%
RO = 80.00′
V = 25 MPH

-Y2A-

PI Sta 11+70.53
△ = 70° 23′ 39.7″ (RT)
D = 57° 17′ 44.8″
L = 122.86′
T = 70.53′
R = 100.00′
SE = EXISTING
RO = SEE PLANS
V = 20 MPH

-RPB-

PI Sta 11+87.20
△ = 21° 30′ 01″ (RT)
D = 5° 48′ 39″
L = 370.00′
T = 187.20′
R = 986.00′
SE = 8%
RO = 144.00′
V = 60 MPH



▨ CONCRETE SIDEWALK

▨ CONCRETE ISLAND

FOR -RPB- PROFILE, SEE SHEET 25
FOR -Y2- PROFILE, SEE SHEET 29

NOTE:
1. ALL DRIVEWAY RADII ARE 20′ UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2′-6″ UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5″ MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

FOR -RPB- PROFILE, SEE SHEET 25
FOR -Y2- PROFILE, SEE SHEET 29
FOR -Y2A- PROFILE, SEE SHEET 29

REVISIONS

03-17-2022 ON PARCEL 3 CONSTRUCTION EASEMENT WAS ADDED AROUND DRAINAGE BASE DITCH.

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PROJECT REFERENCE NO.	SHEET NO.
R-5759	18
RW SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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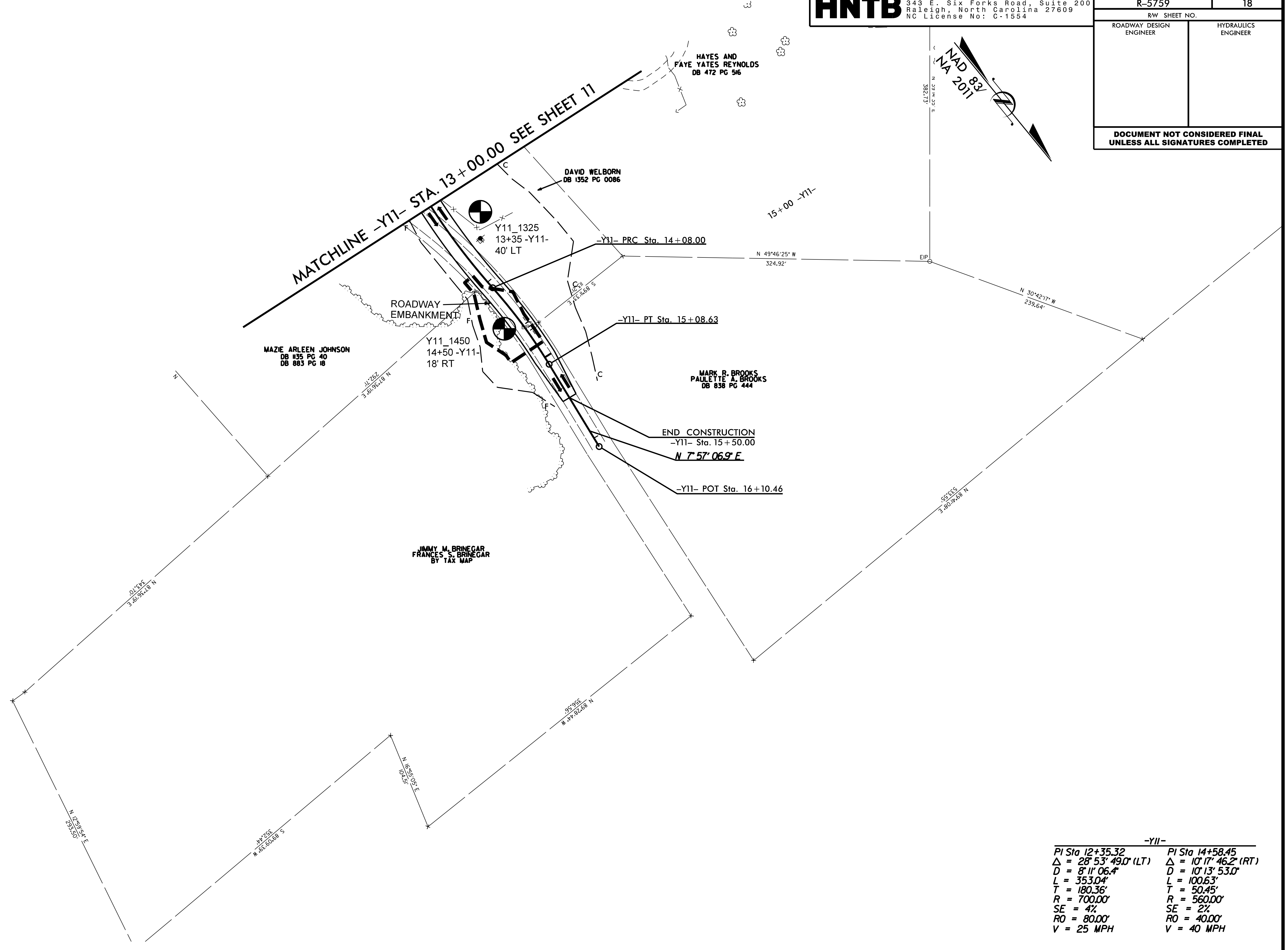
REVISIONS



NAD 83/ NA 2011
MATCHLINE -Y11- STA. 13+00.00 SEE SHEET 11
HAYES AND FAYE YATES REYNOLDS DB 472 PG 516
DAVID WELBORN DB 1352 PG 0086
Y11_1325 13+35 -Y11- 40' LT
-Y11- PRC Sta. 14+08.00
ROADWAY EMBANKMENT
Y11_1450 14+50 -Y11- 18' RT
-Y11- PT Sta. 15+08.63
15+00 -Y11-
N 49°46'25" W 324.92'
EIP
N 30°42'17" W 239.64'
382.73'
MAZIE ARLEEN JOHNSON DB 1135 PG 40 DB 883 PG 18
MARK R. BROOKS PAULETTE A. BROOKS DB 838 PG 444
END CONSTRUCTION -Y11- Sta. 15+50.00
N 7°57' 06.9" E
-Y11- POT Sta. 16+10.46
JIMMY M. BRINEGAR FRANCES S. BRINEGAR BY TAX MAP
N 87°36'19" E 252.11'
N 87°36'19" E 341.70'
N 89°28'44" W 356.56'
N 16°56'05" E 104.51'
S 89°59'55" W 352.44'
N 12°59'54" E 293.50'
N 89°11'08" E 533.55'
F
C

-Y11-

PI Sta 12+35.32	PI Sta 14+58.45
Δ = 28° 53' 49.0" (LT)	Δ = 10° 17' 46.2" (RT)
D = 8° 11' 06.4"	D = 10° 13' 53.0"
L = 353.04'	L = 100.63'
T = 180.36'	T = 50.45'
R = 700.00'	R = 560.00'
SE = 4%	SE = 2%
RO = 80.00'	RO = 40.00'
V = 25 MPH	V = 40 MPH

FOR -Y11- PROFILE, SEE SHEET 36

NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.
3. ALL ISLANDS ARE KEYED-IN 5" MONOLITHIC CONCRETE ISLANDS UNLESS OTHERWISE NOTED.

12-MAR-2024 11:53
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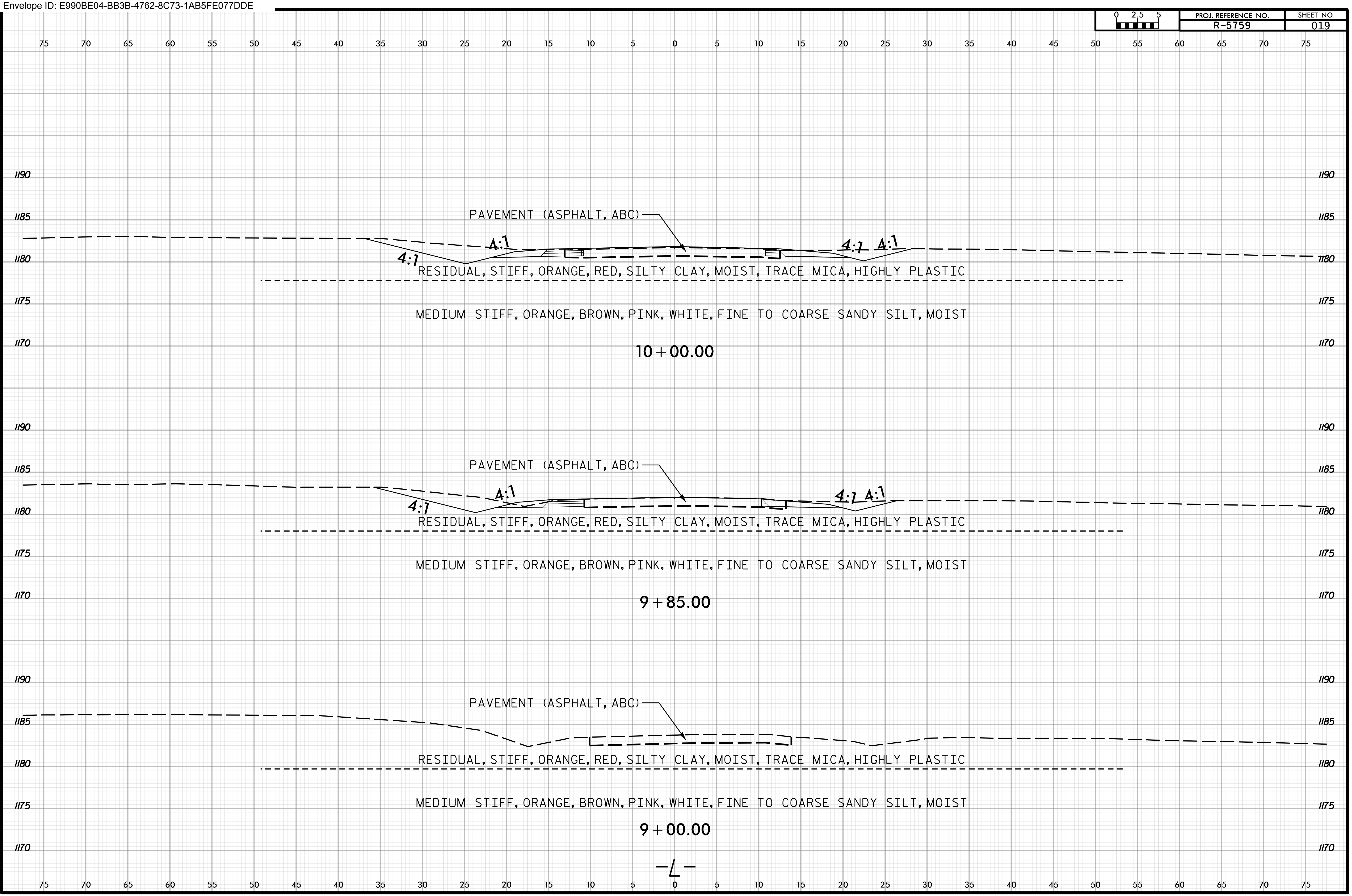
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0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1190
1185
1180
1175
1170
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, BROWN, PINK, WHITE, FINE TO COARSE SANDY SILT, MOIST
10+00.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, BROWN, PINK, WHITE, FINE TO COARSE SANDY SILT, MOIST
9+85.00
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, BROWN, PINK, WHITE, FINE TO COARSE SANDY SILT, MOIST
9+00.00
-L-

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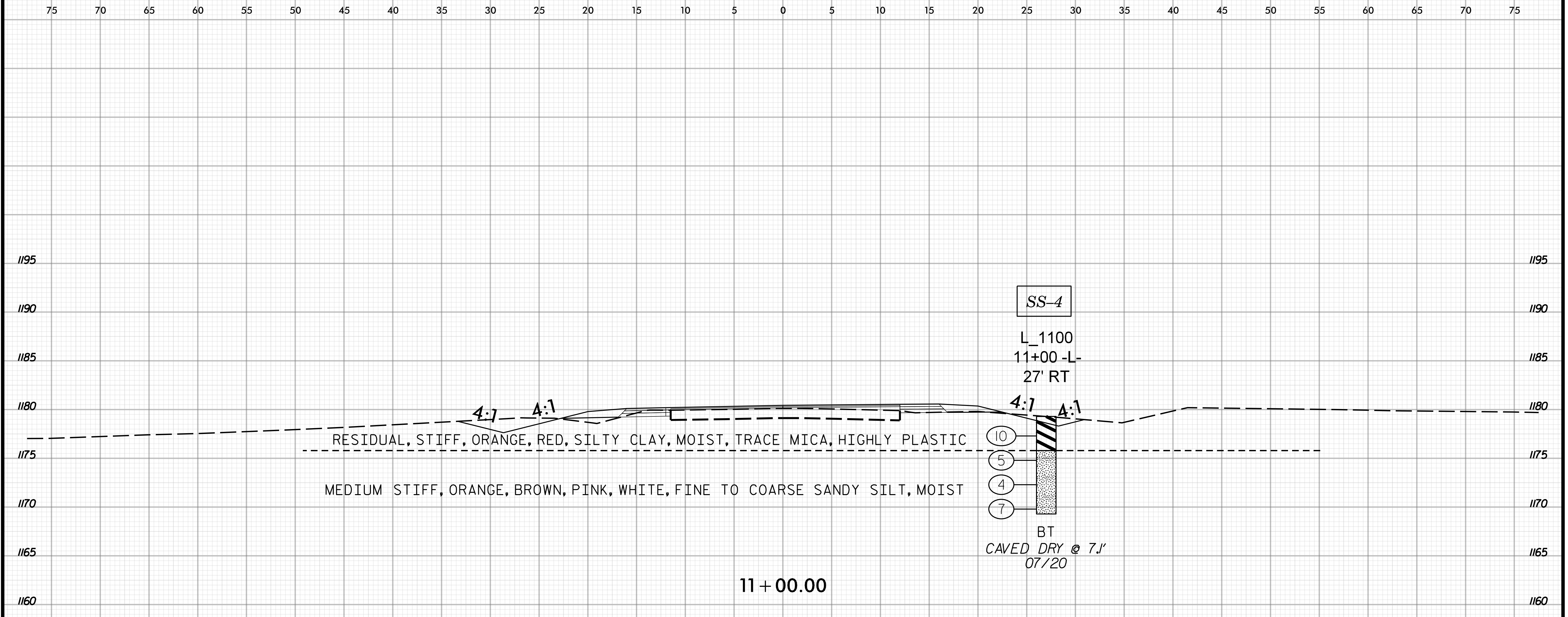
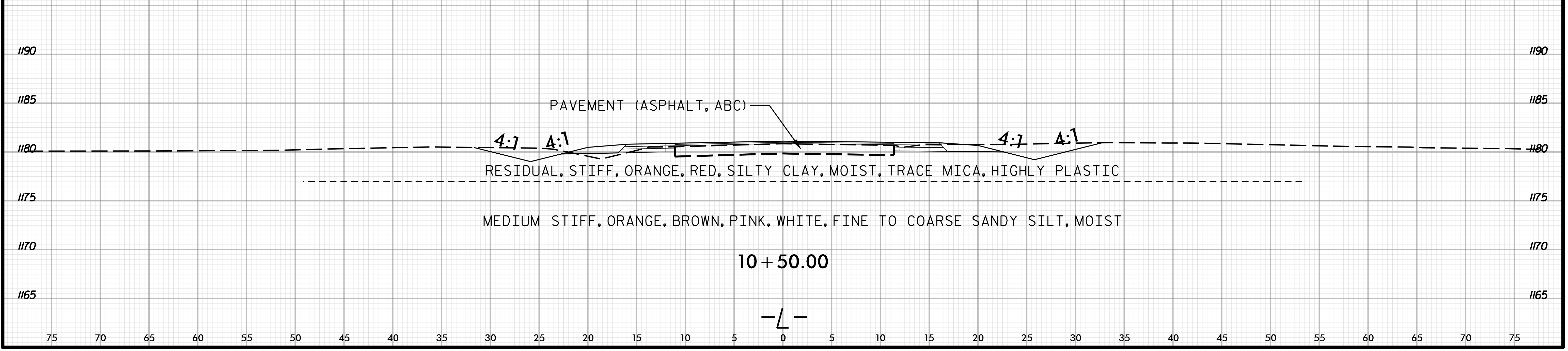


11+00.00



1190
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, BROWN, PINK, WHITE, FINE TO COARSE SANDY SILT, MOIST
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

10+50.00

−L−

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6/23/16

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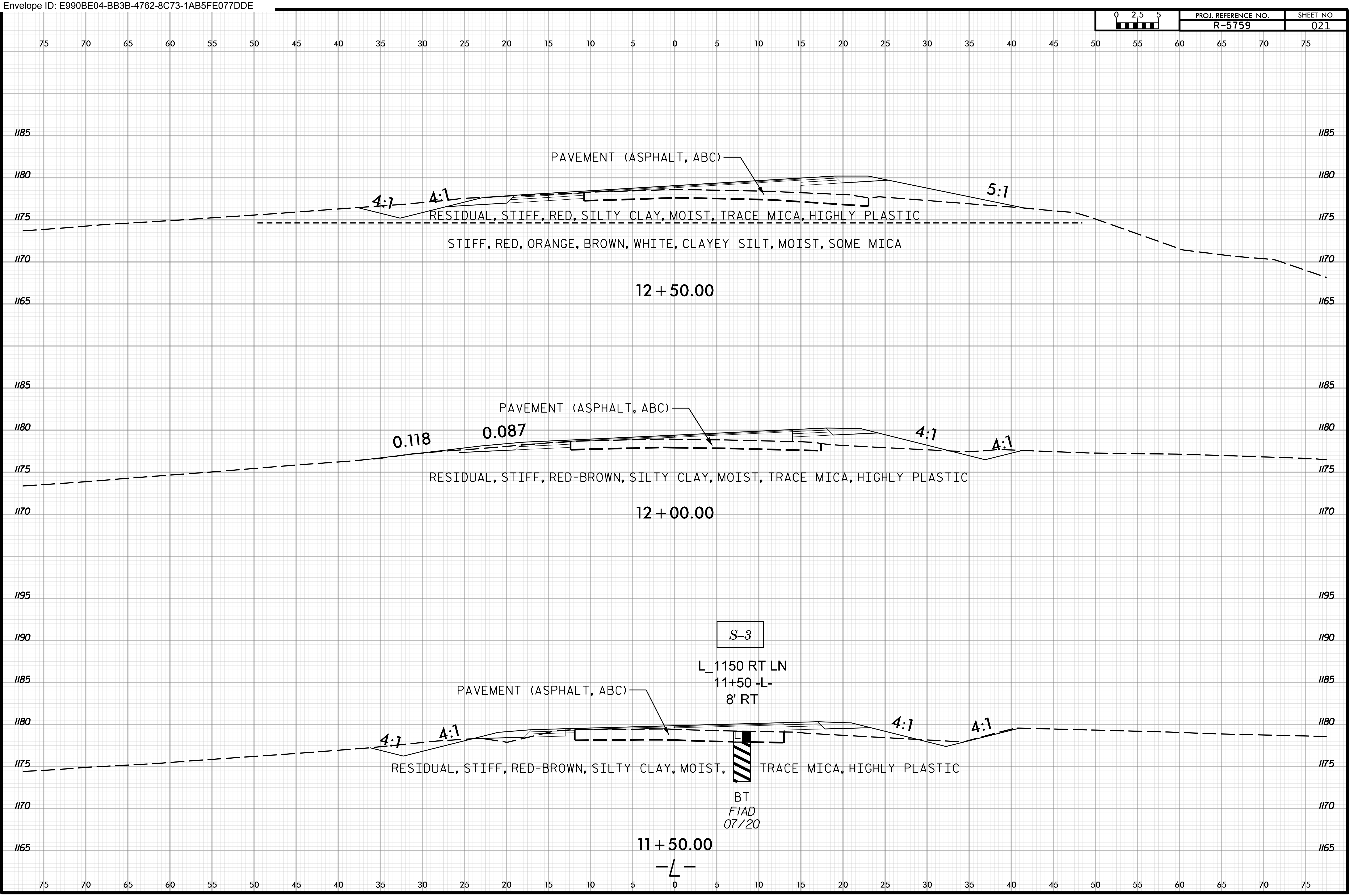

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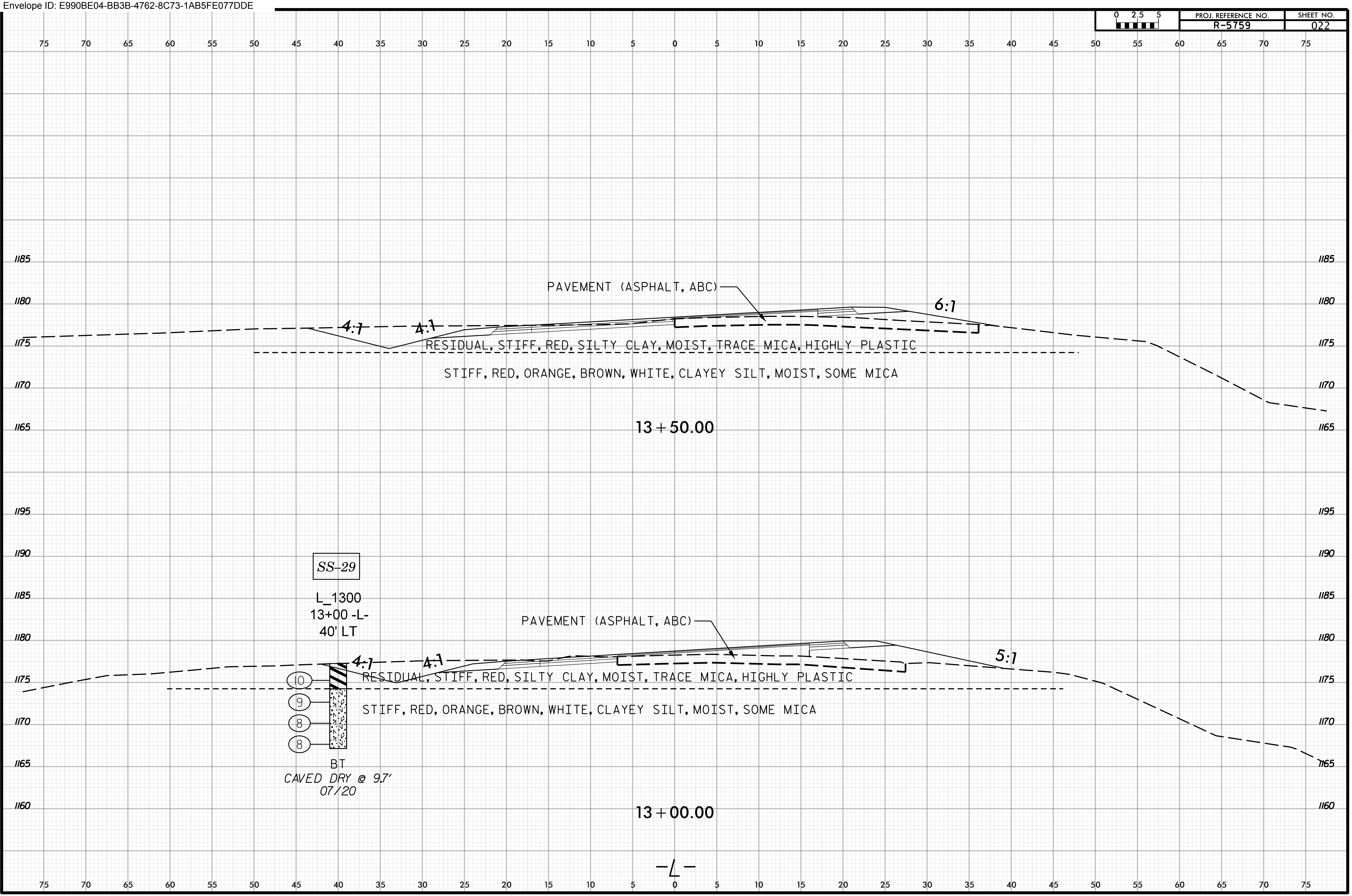
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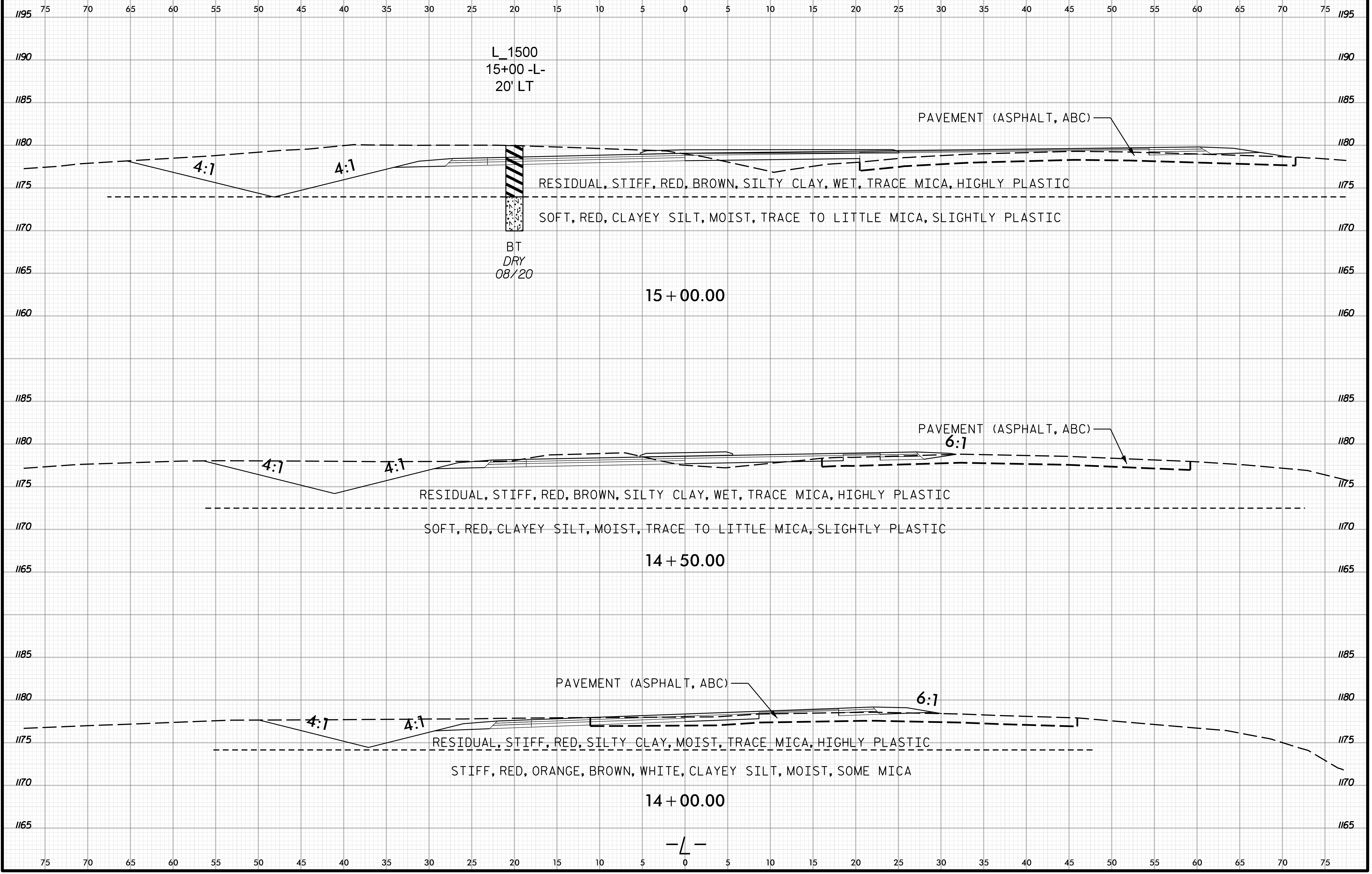
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
4:1
4:1
6:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF, RED, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, SOME MICA
13+50.00
1195
1190
1185
1180
1175
1170
1165
1160
SS-29
L_1300
13+00 -L-
40' LT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
5:1
10
9
8
8
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF, RED, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, SOME MICA
BT
CAVED DRY @ 9.7'
07/20
13+00.00
-L-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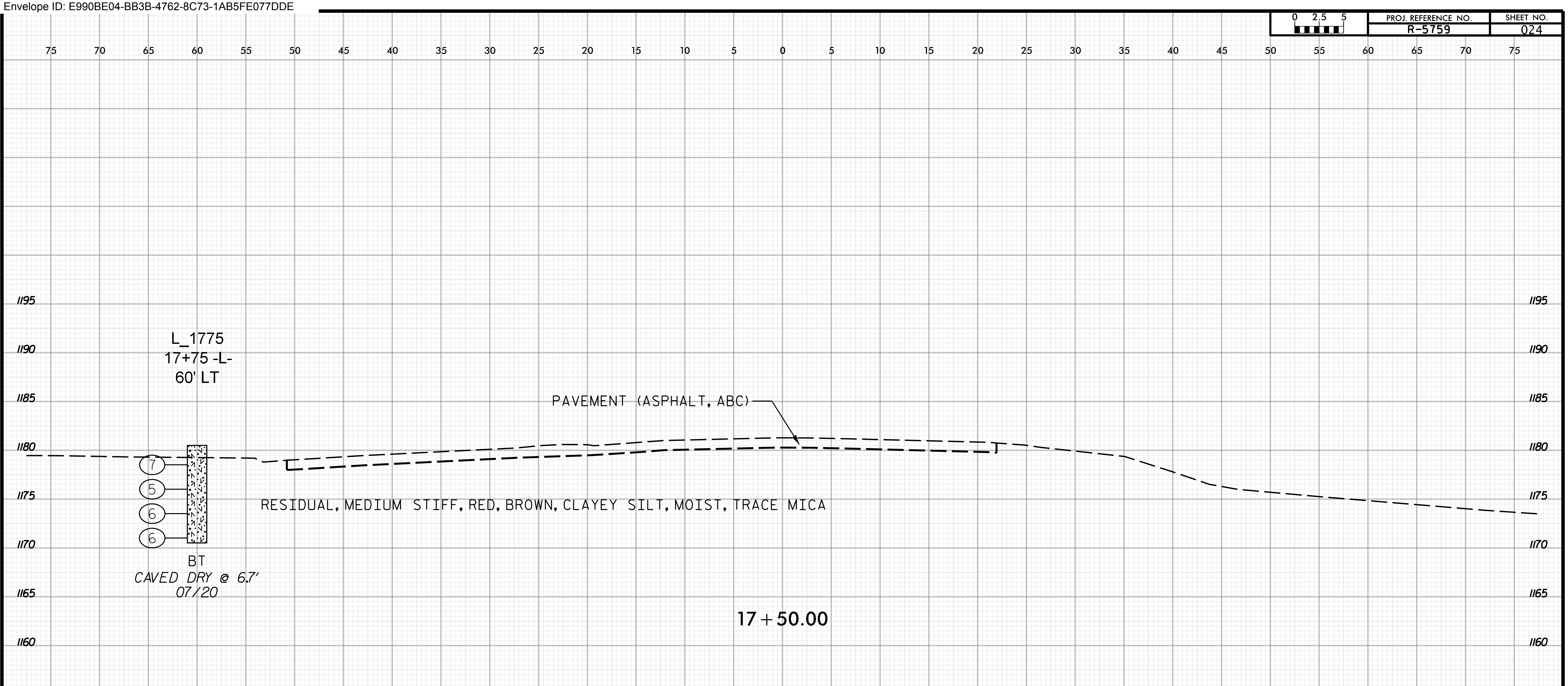
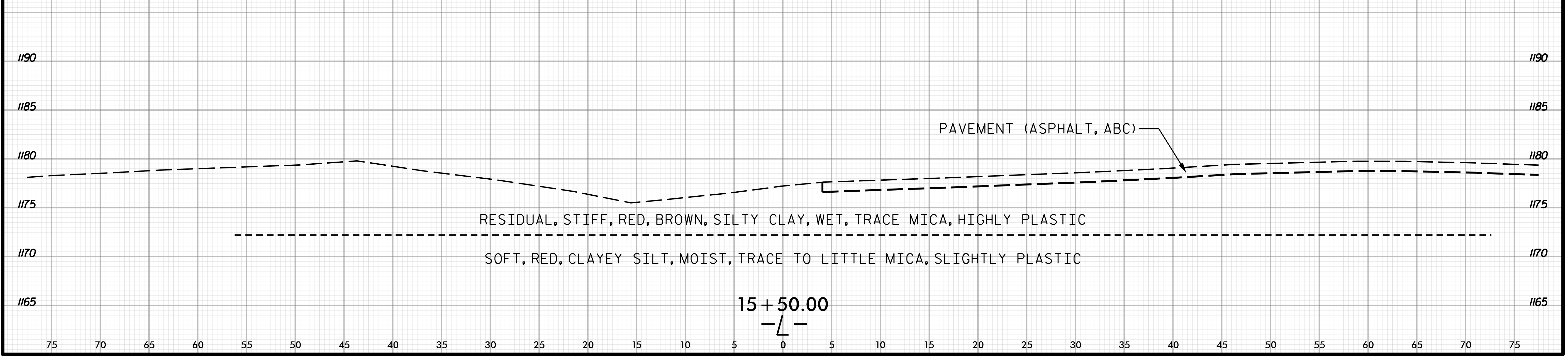
1190
1185
1180
1175
1170
1165
1160
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
L_1500
15+00 -L-
20' LT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
BT
DRY
08/20
15+00.00
PAVEMENT (ASPHALT, ABC)
6:1
4:1
4:1
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
14+50.00
PAVEMENT (ASPHALT, ABC)
6:1
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF, RED, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, SOME MICA
14+00.00
-L-



17+50.00


1190
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

15+50.00
-L-

6/23/16

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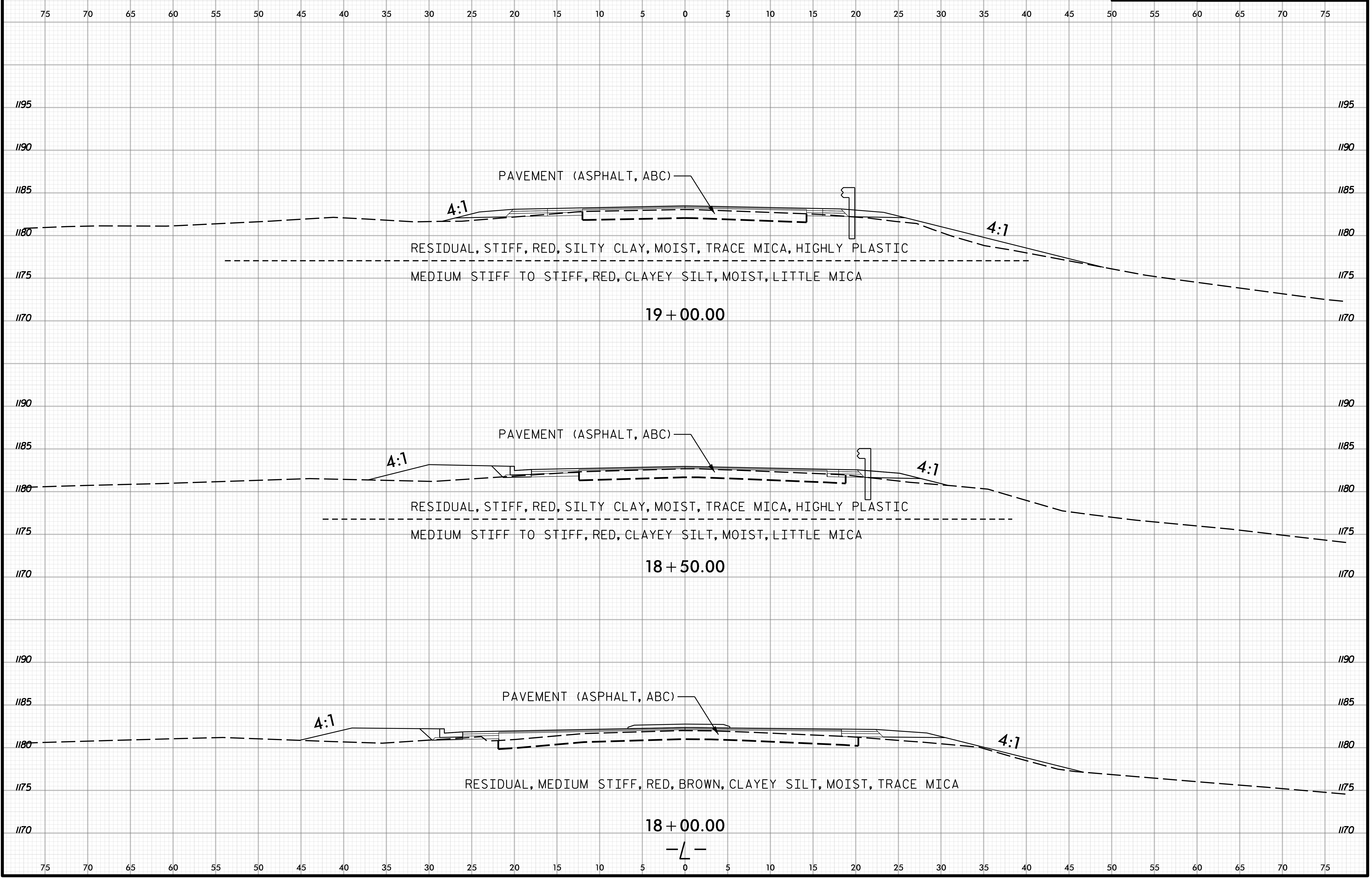

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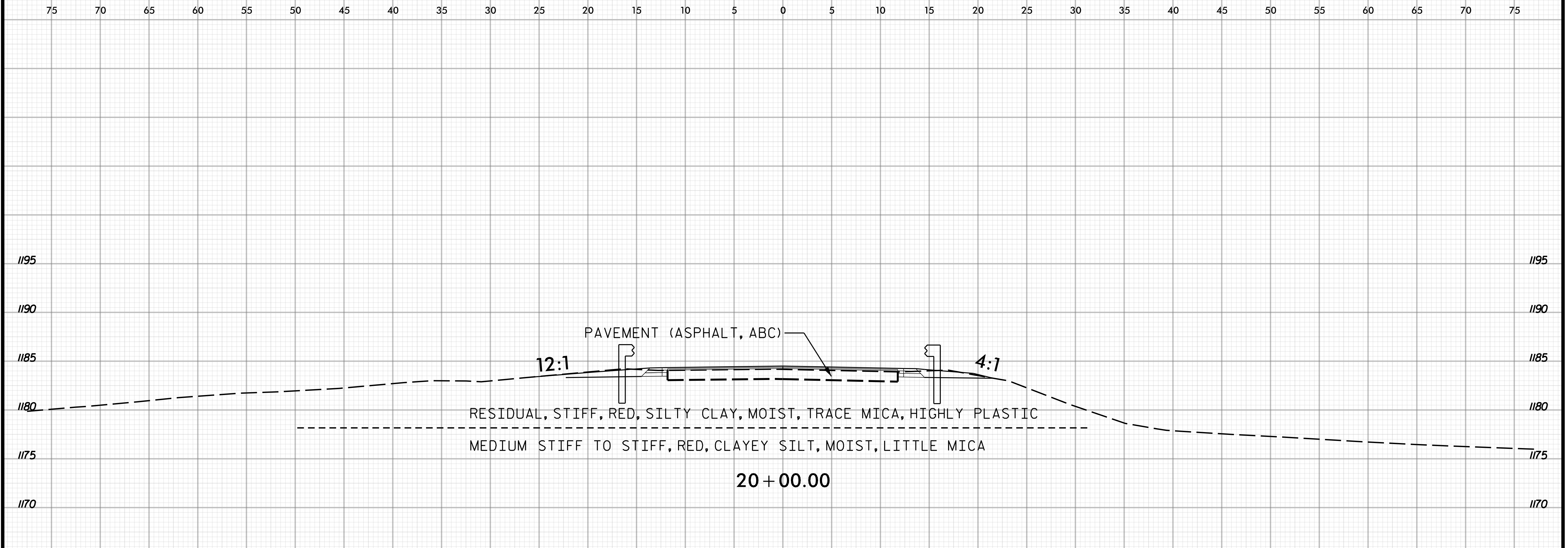
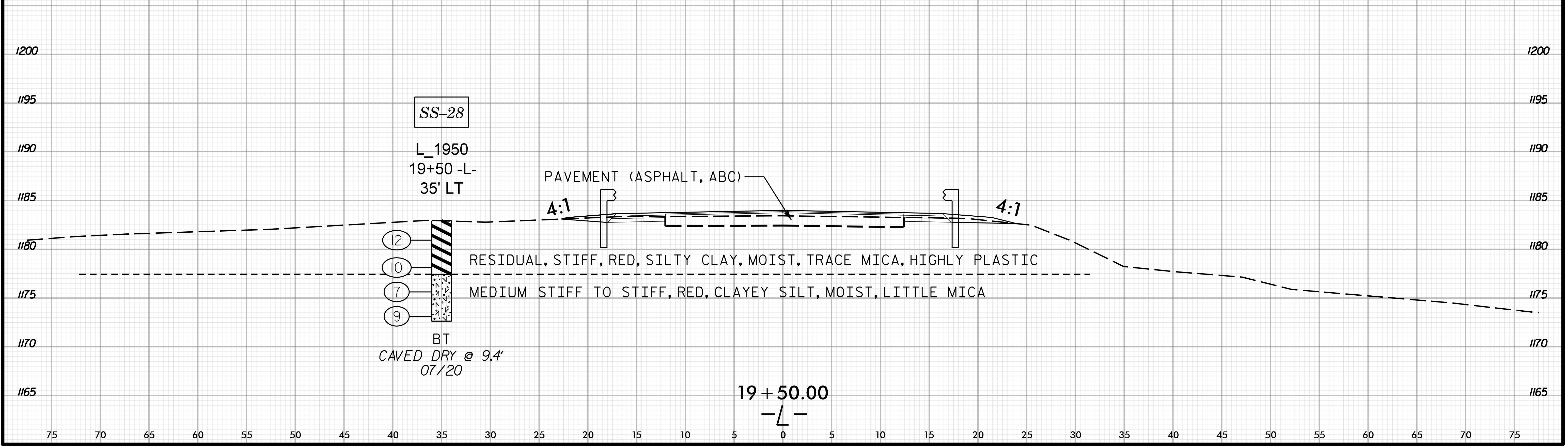


20+00.00



19+50.00
-L-

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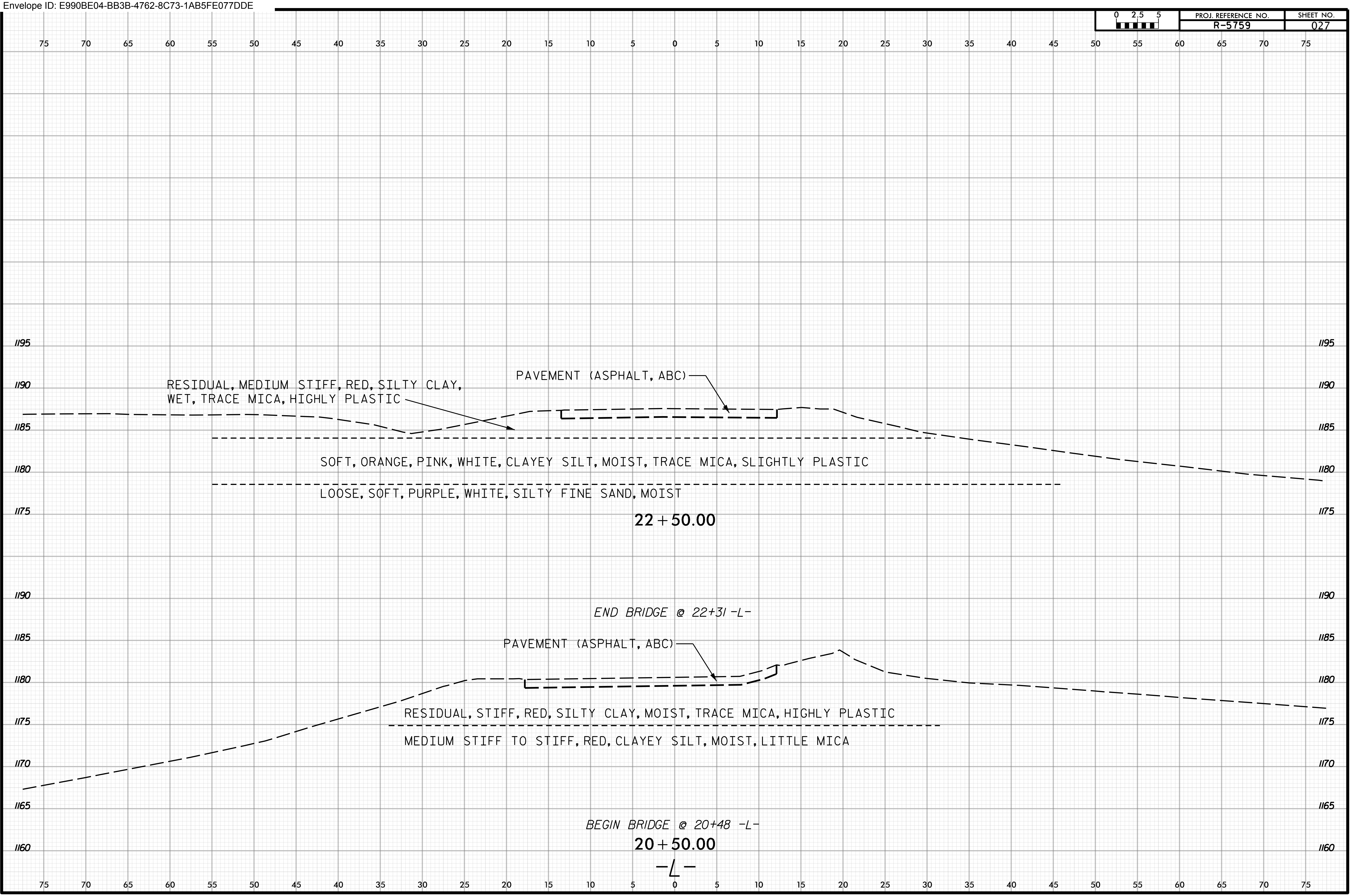

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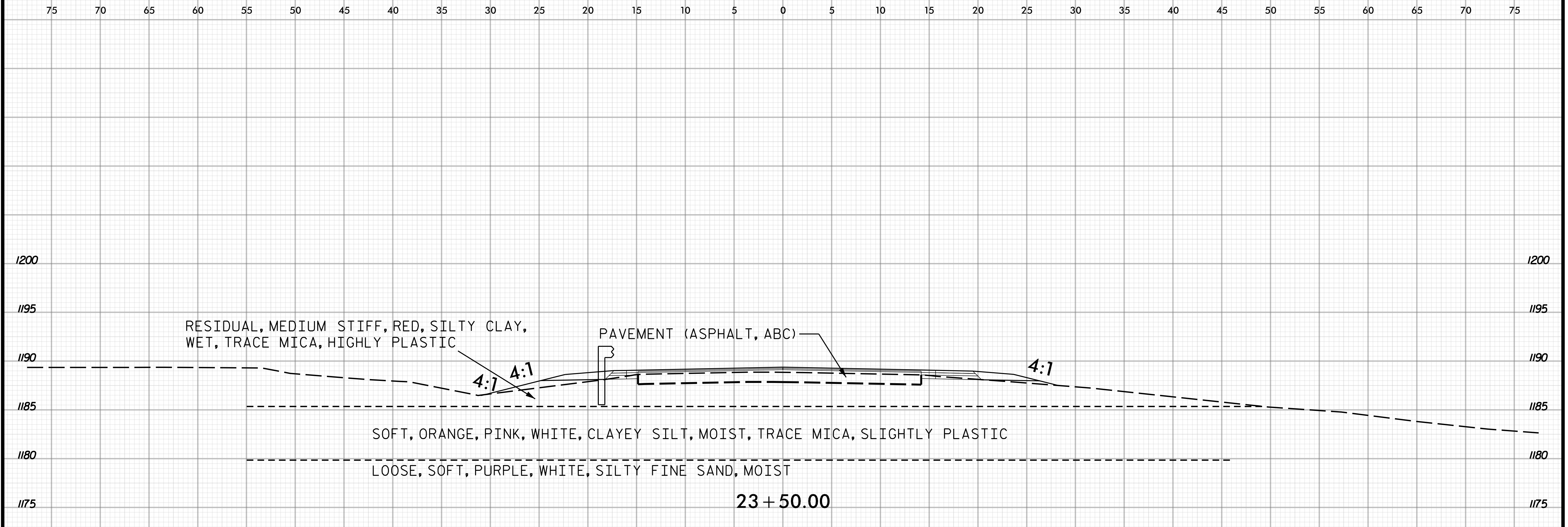
6/23/16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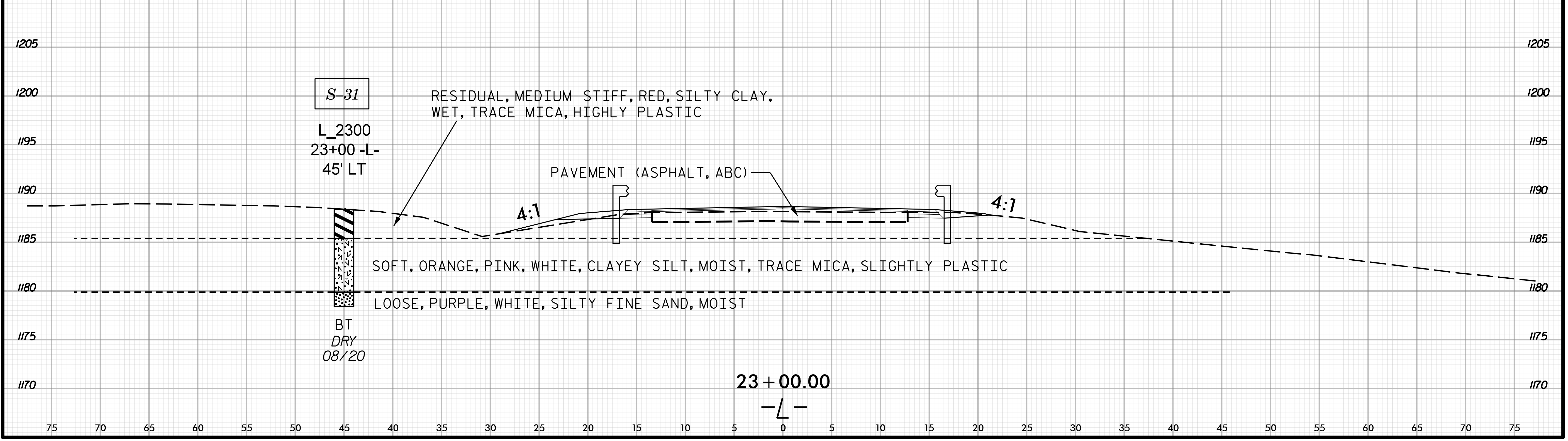
1200
1195
1190
1185
1180
1175
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, SLIGHTLY PLASTIC
LOOSE, SOFT, PURPLE, WHITE, SILTY FINE SAND, MOIST

23 + 50.00


1205
1200
1195
1190
1185
1180
1175
1170
S-31
L_2300
23+00 -L-
45' LT
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
4:1
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, SLIGHTLY PLASTIC
LOOSE, PURPLE, WHITE, SILTY FINE SAND, MOIST
BT
DRY
08/20
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

23 + 00.00

-L-

28-AUG-2024 08:57
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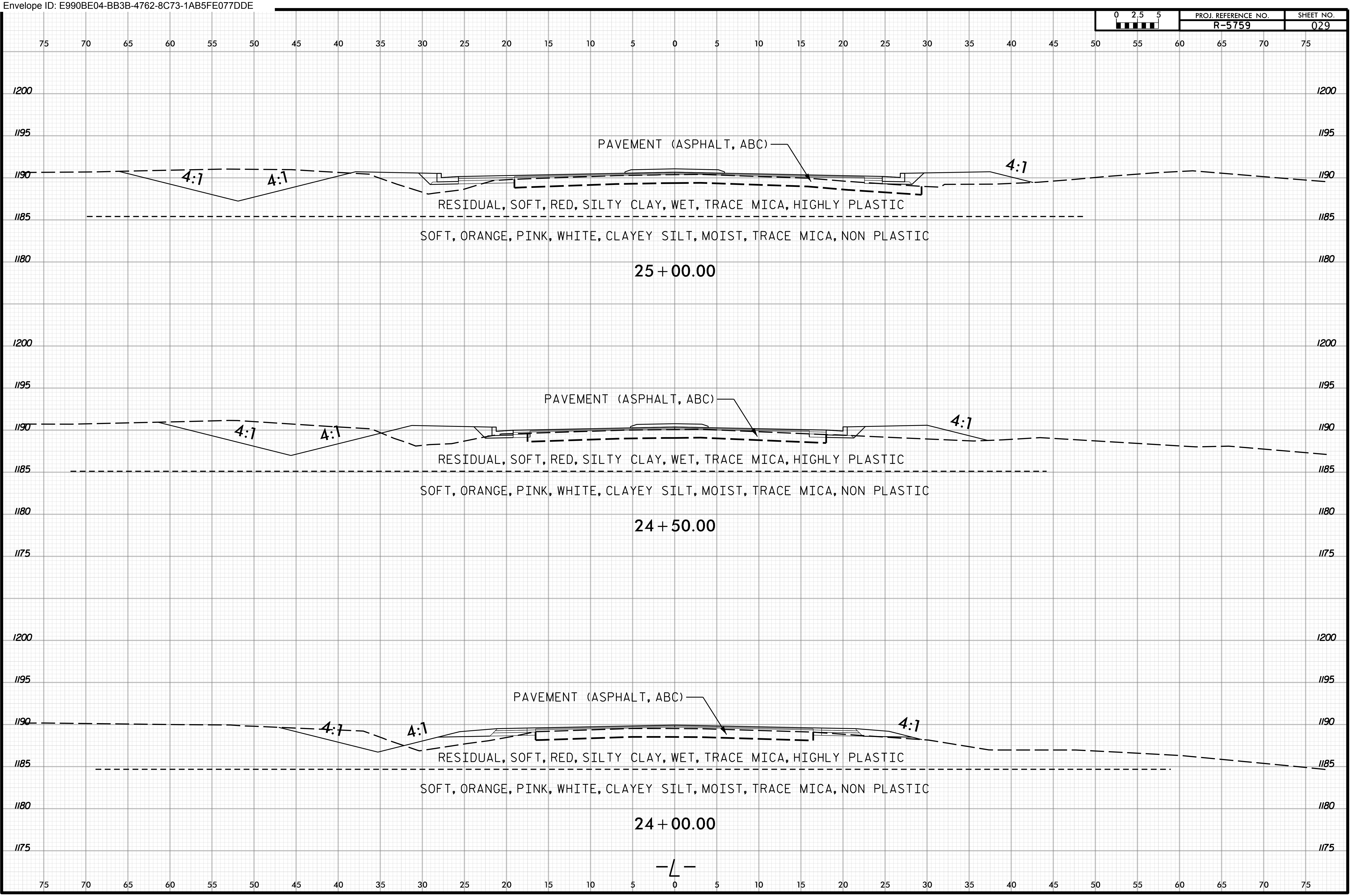
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1200
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
25+00.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
24+50.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
24+00.00
-L-

6/23/16

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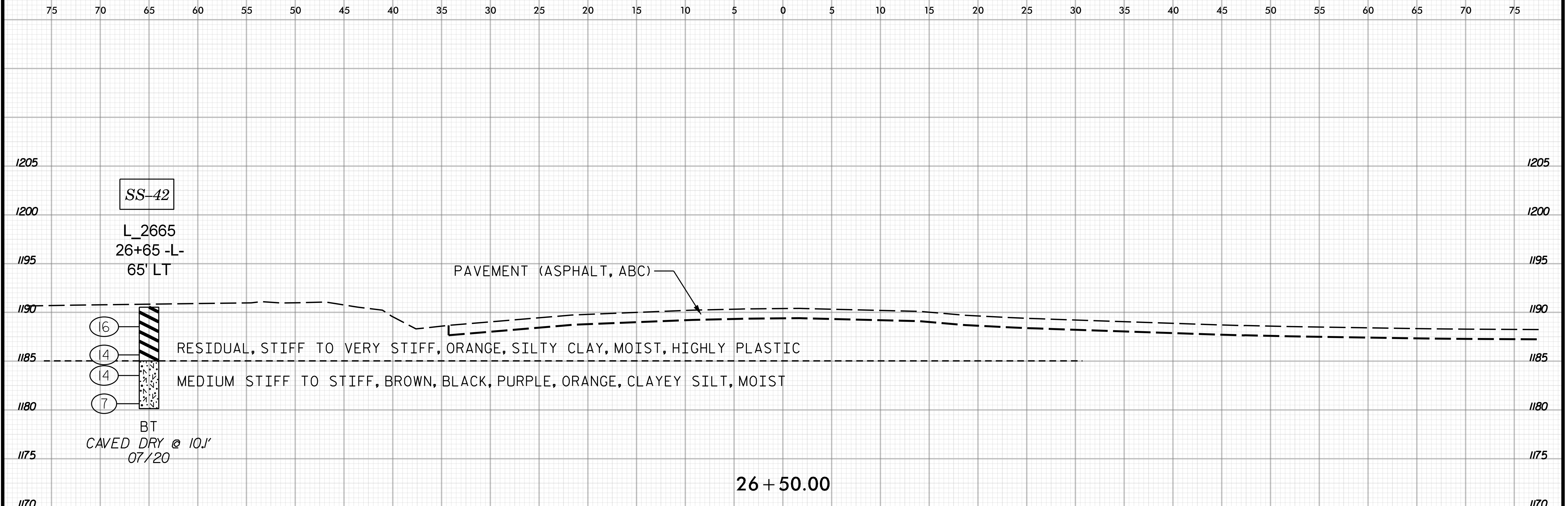
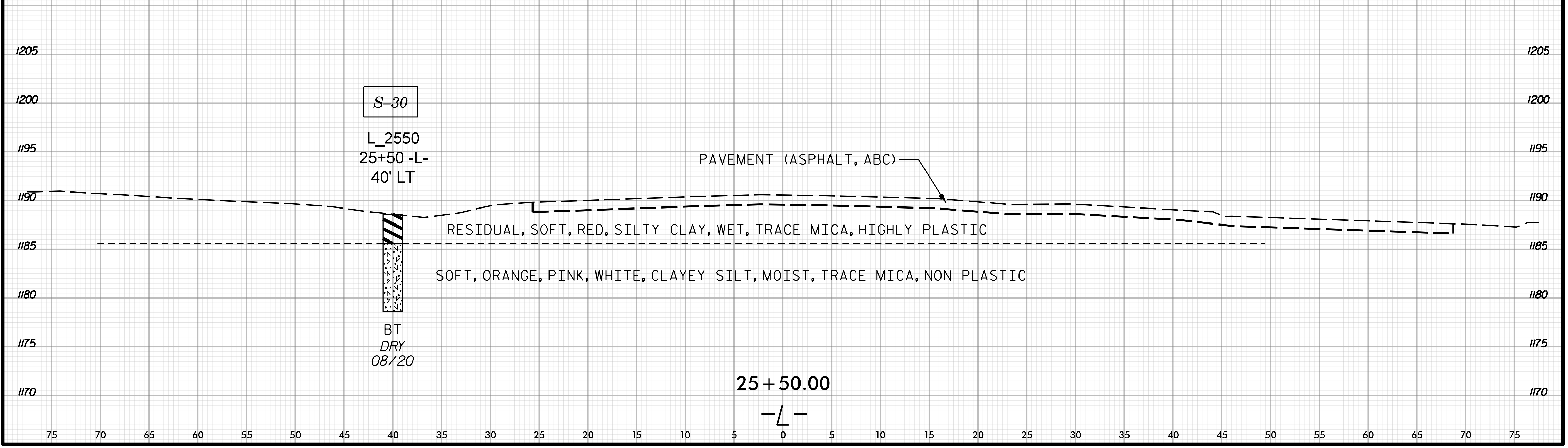


26+50.00



25+50.00

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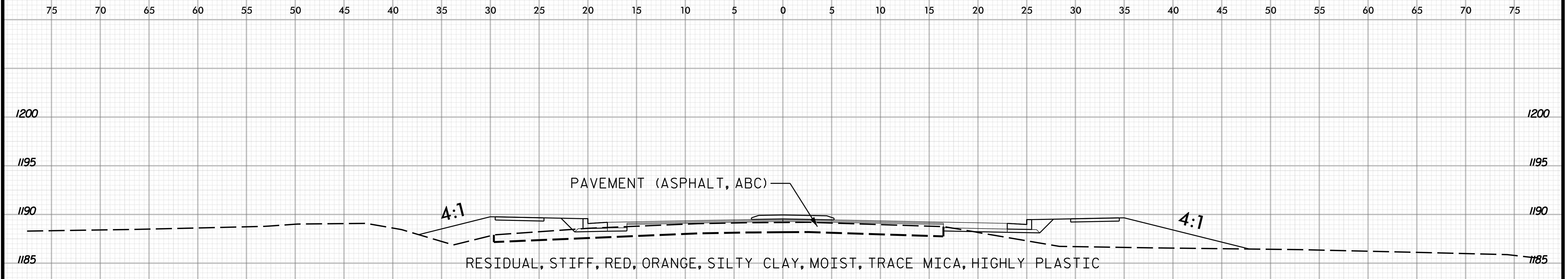
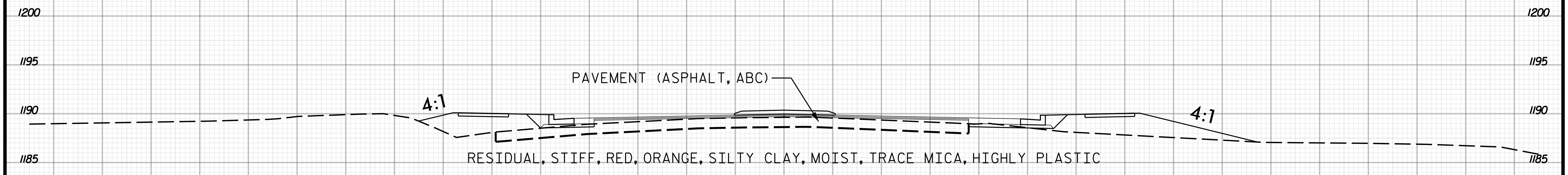
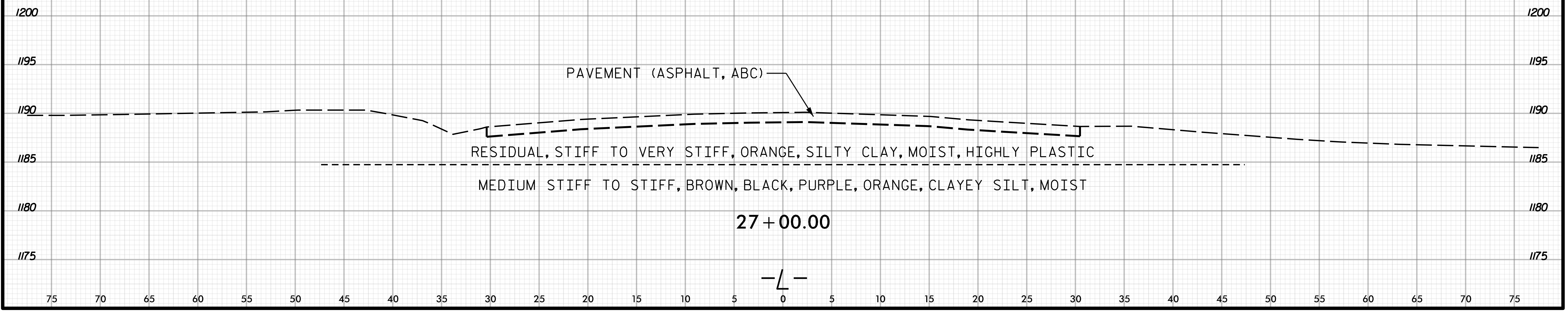


28+00.00


1200
1195
1190
1185
1180
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

27+50.00


1200
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

27+00.00

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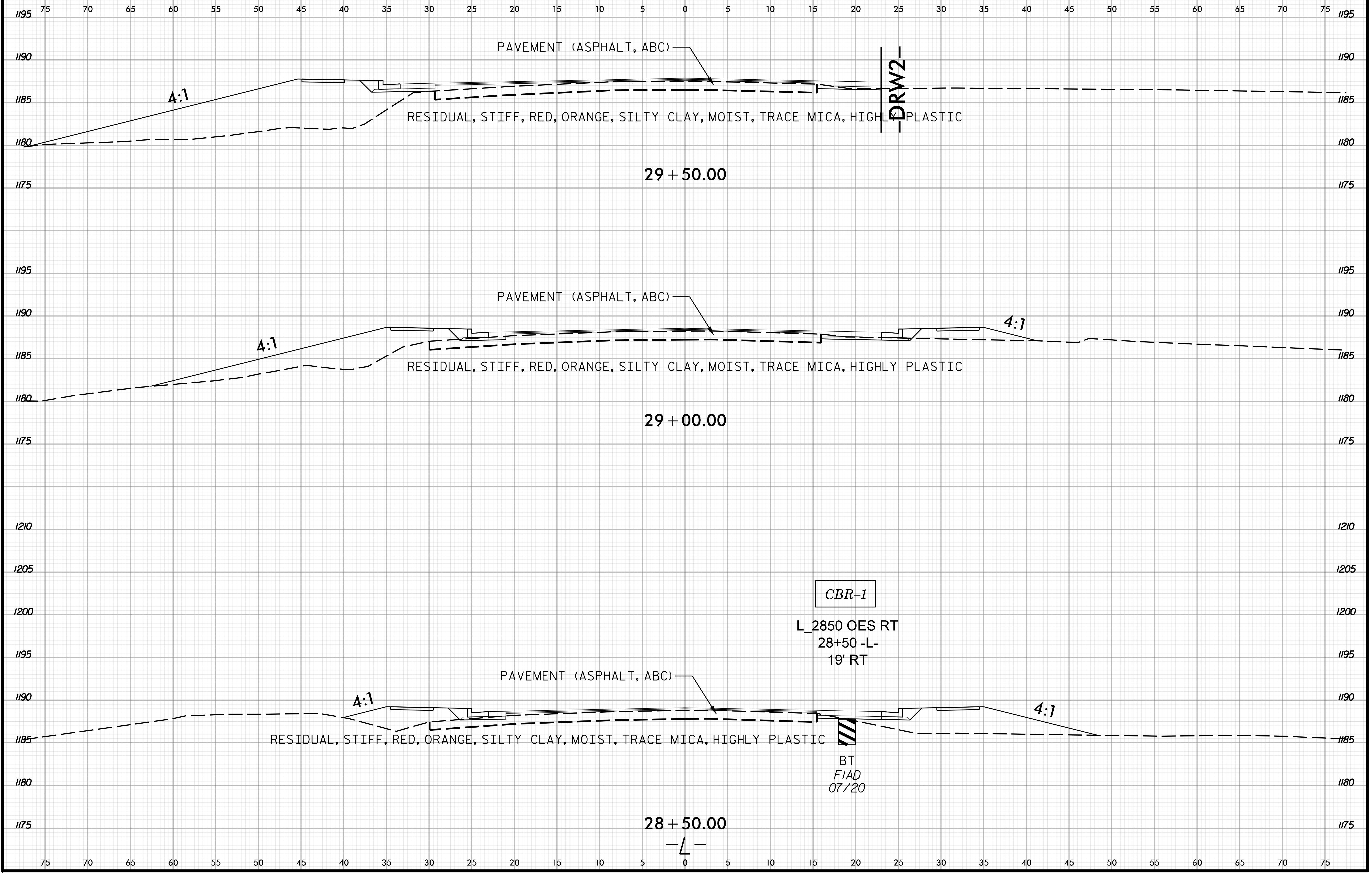
6/23/16
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
4:1
-DRW2-
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
29+50.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
29+00.00
1210
1205
1200
CBR-1
L_2850 OES RT
28+50 -L-
19' RT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
BT
FIAD
07/20
28+50.00
-L-
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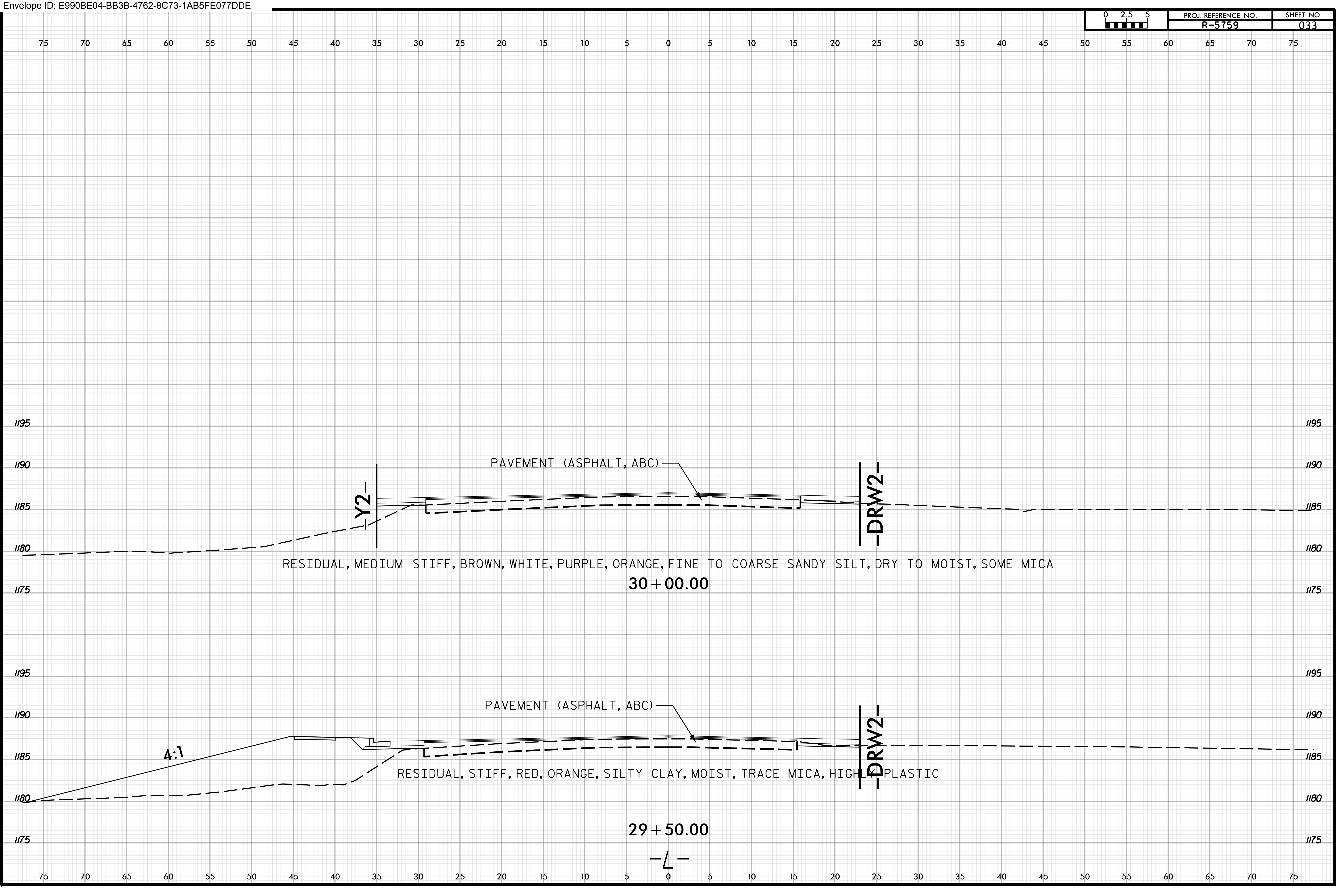

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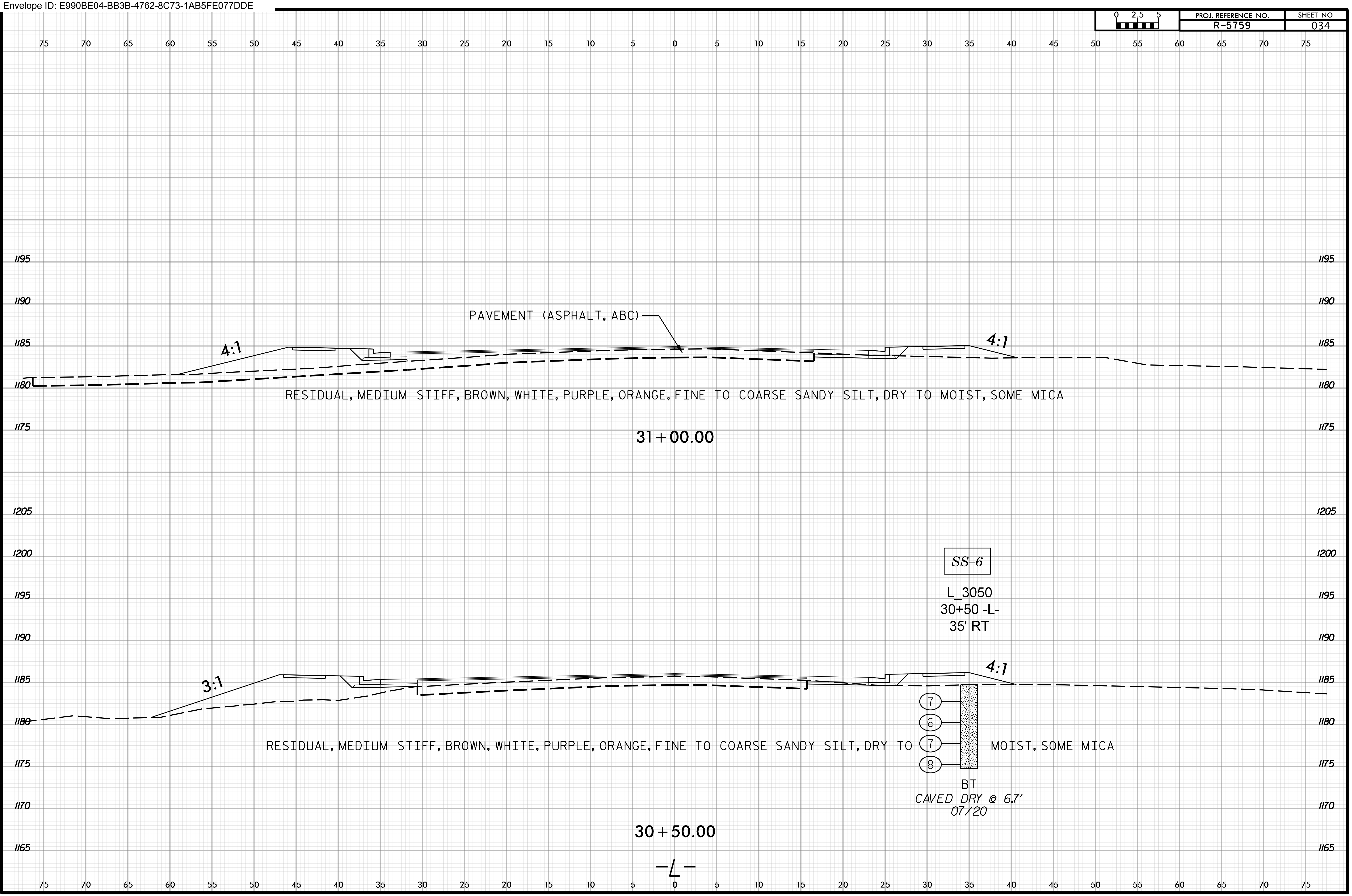

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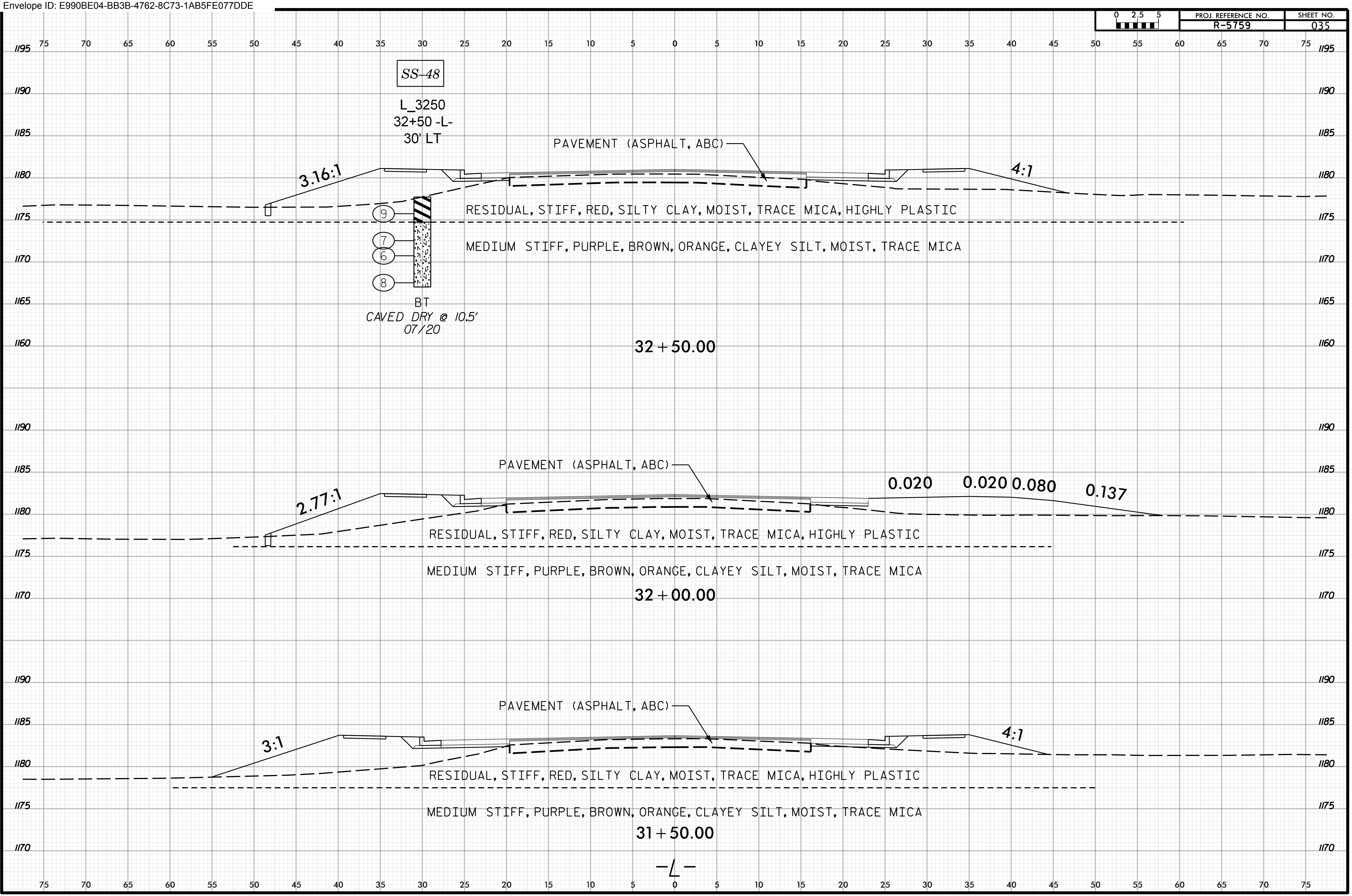
0 2.5 5
SS-48
L_3250
32+50 -L-
30' LT
PAVEMENT (ASPHALT, ABC)
3.16:1
4:1
9
7
6
8
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PURPLE, BROWN, ORANGE, CLAYEY SILT, MOIST, TRACE MICA
BT
CAVED DRY @ 10.5'
07/20
32+50.00
PAVEMENT (ASPHALT, ABC)
2.77:1
0.020
0.020
0.080
0.137
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PURPLE, BROWN, ORANGE, CLAYEY SILT, MOIST, TRACE MICA
32+00.00
PAVEMENT (ASPHALT, ABC)
3:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PURPLE, BROWN, ORANGE, CLAYEY SILT, MOIST, TRACE MICA
31+50.00
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1195 1190 1185 1180 1175 1170 1165 1160
1190 1185 1180 1175 1170
1190 1185 1180 1175 1170

6/23/16

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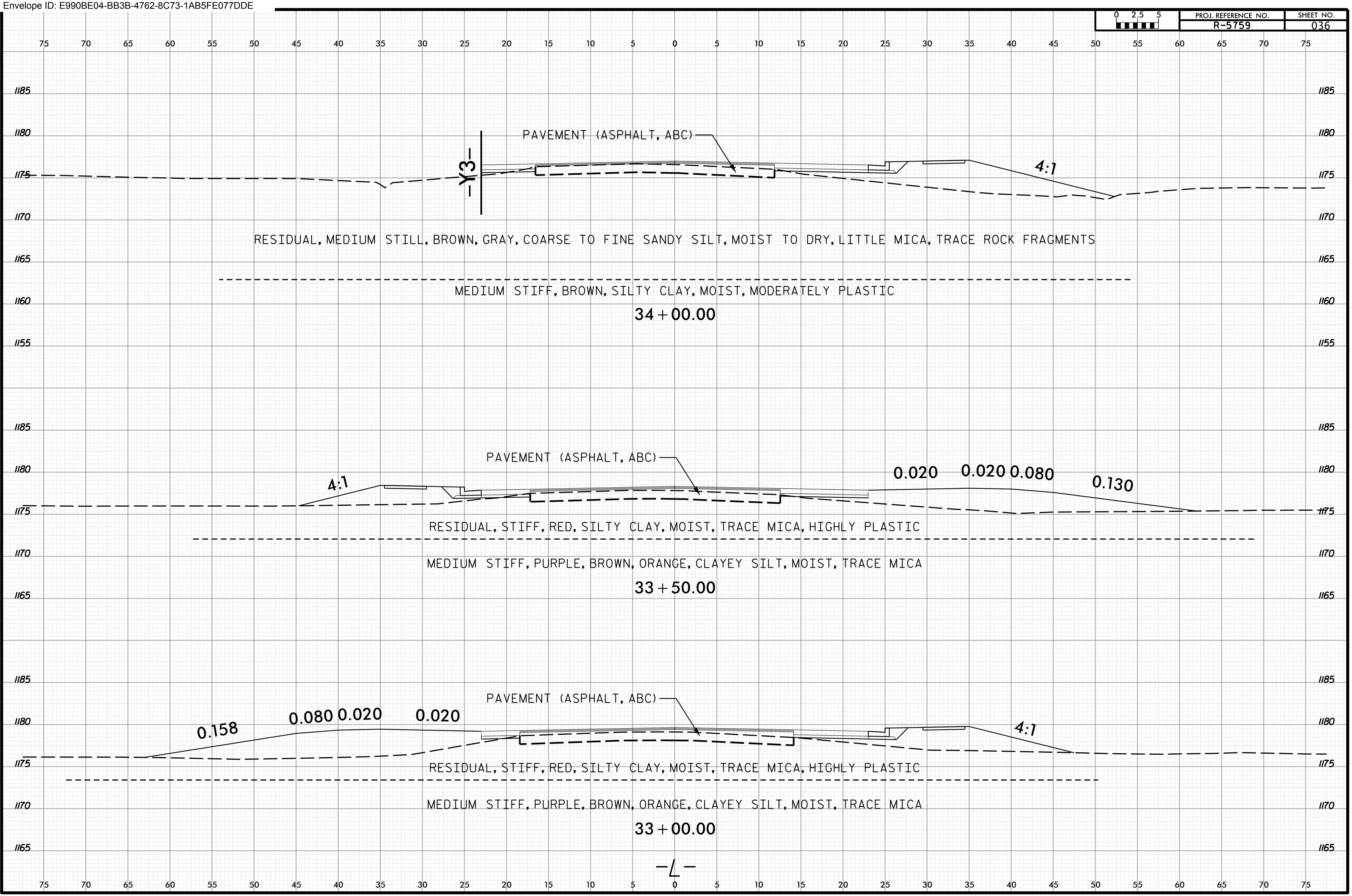
0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1185
1180
1175
1170
1165
1160
1155
-Y3-
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STILL, BROWN, GRAY, COARSE TO FINE SANDY SILT, MOIST TO DRY, LITTLE MICA, TRACE ROCK FRAGMENTS
MEDIUM STIFF, BROWN, SILTY CLAY, MOIST, MODERATELY PLASTIC
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
4:1
0.020
0.020
0.080
0.130
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PURPLE, BROWN, ORANGE, CLAYEY SILT, MOIST, TRACE MICA
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
0.158
0.080
0.020
0.020
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PURPLE, BROWN, ORANGE, CLAYEY SILT, MOIST, TRACE MICA
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

34+00.00

33+50.00

33+00.00

6/23/16

28-AUG-2024 08:57
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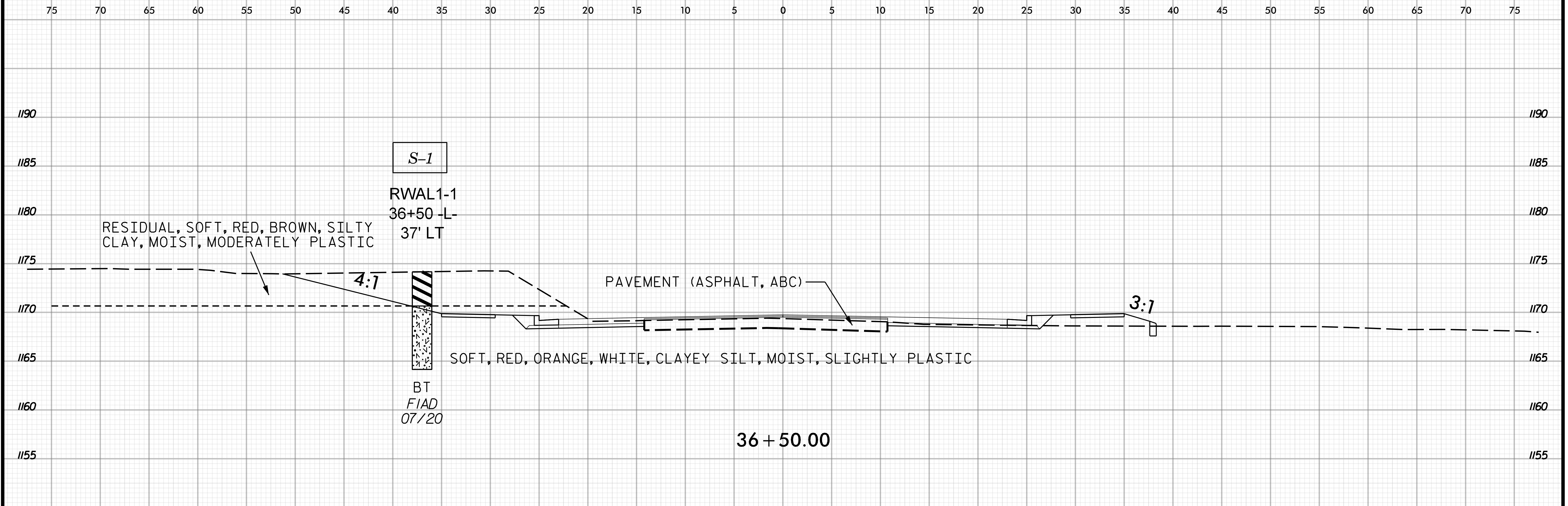
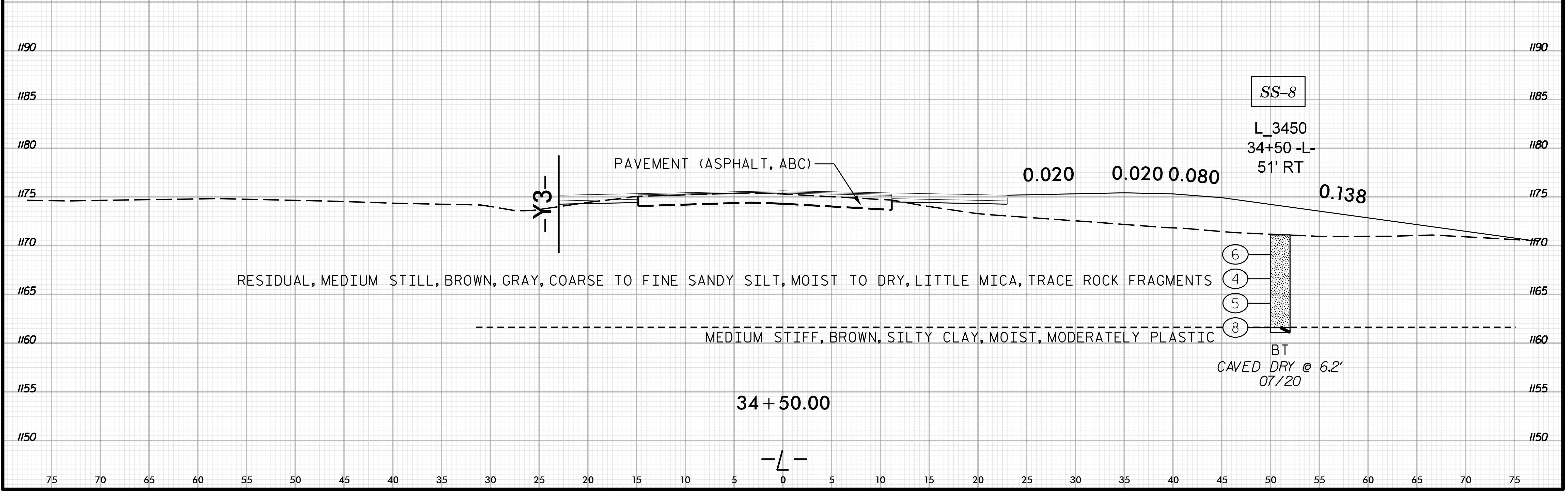
mlhartman AT W0070050699


S-1
RWAL1-1
36+50 -L-
37' LT
RESIDUAL, SOFT, RED, BROWN, SILTY CLAY, MOIST, MODERATELY PLASTIC
4:1
PAVEMENT (ASPHALT, ABC)
3:1
SOFT, RED, ORANGE, WHITE, CLAYEY SILT, MOIST, SLIGHTLY PLASTIC
BT
FIAD
07/20
36+50.00


1190
1185
1180
1175
1170
1165
1160
1155
1150
SS-8
L_3450
34+50 -L-
51' RT
PAVEMENT (ASPHALT, ABC)
0.020
0.020
0.080
0.138
-Y3-
6
4
5
8
RESIDUAL, MEDIUM STILL, BROWN, GRAY, COARSE TO FINE SANDY SILT, MOIST TO DRY, LITTLE MICA, TRACE ROCK FRAGMENTS
MEDIUM STIFF, BROWN, SILTY CLAY, MOIST, MODERATELY PLASTIC
BT
CAVED DRY @ 6.2'
07/20
34+50.00
-L-
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
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35
40
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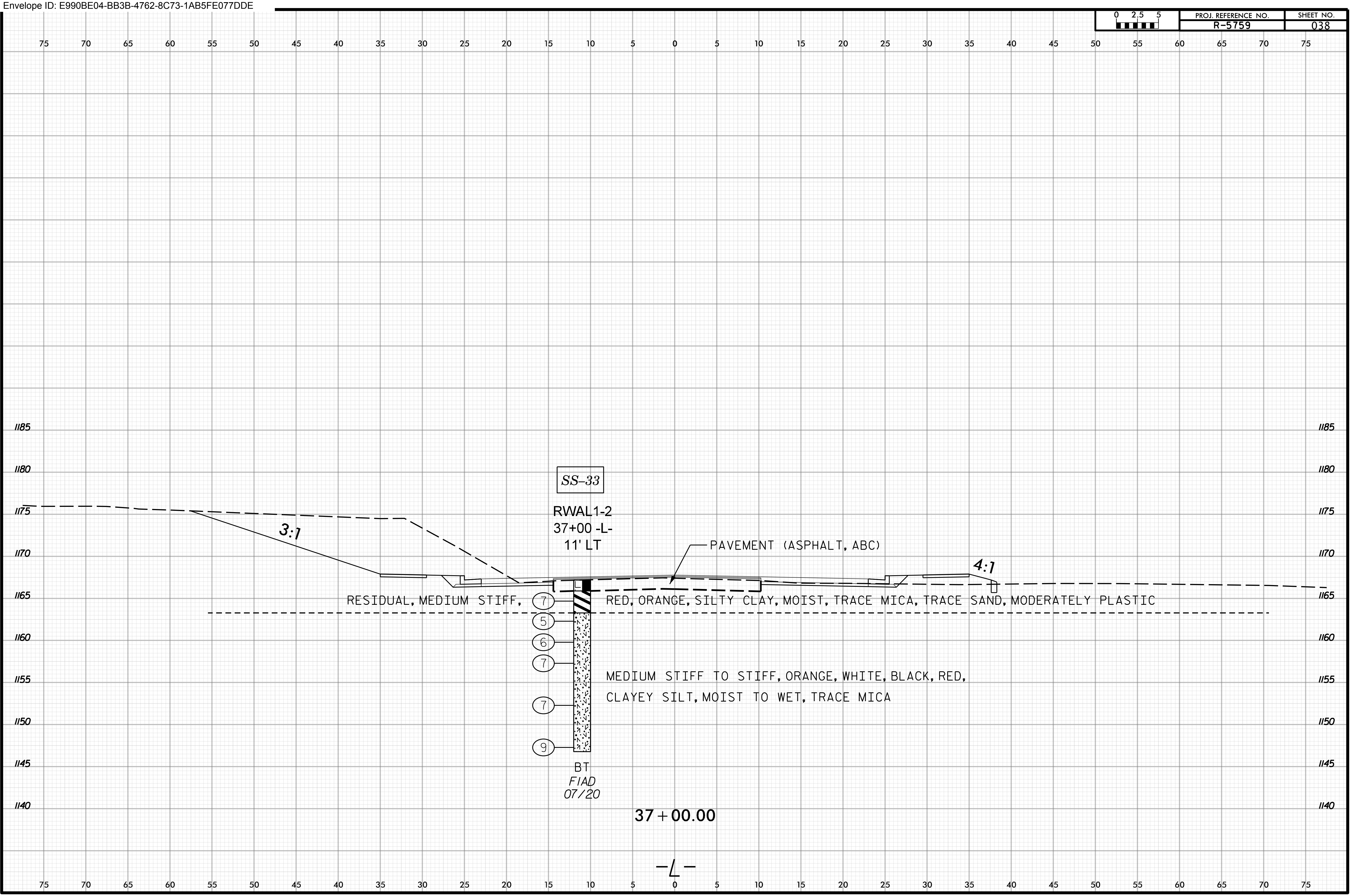
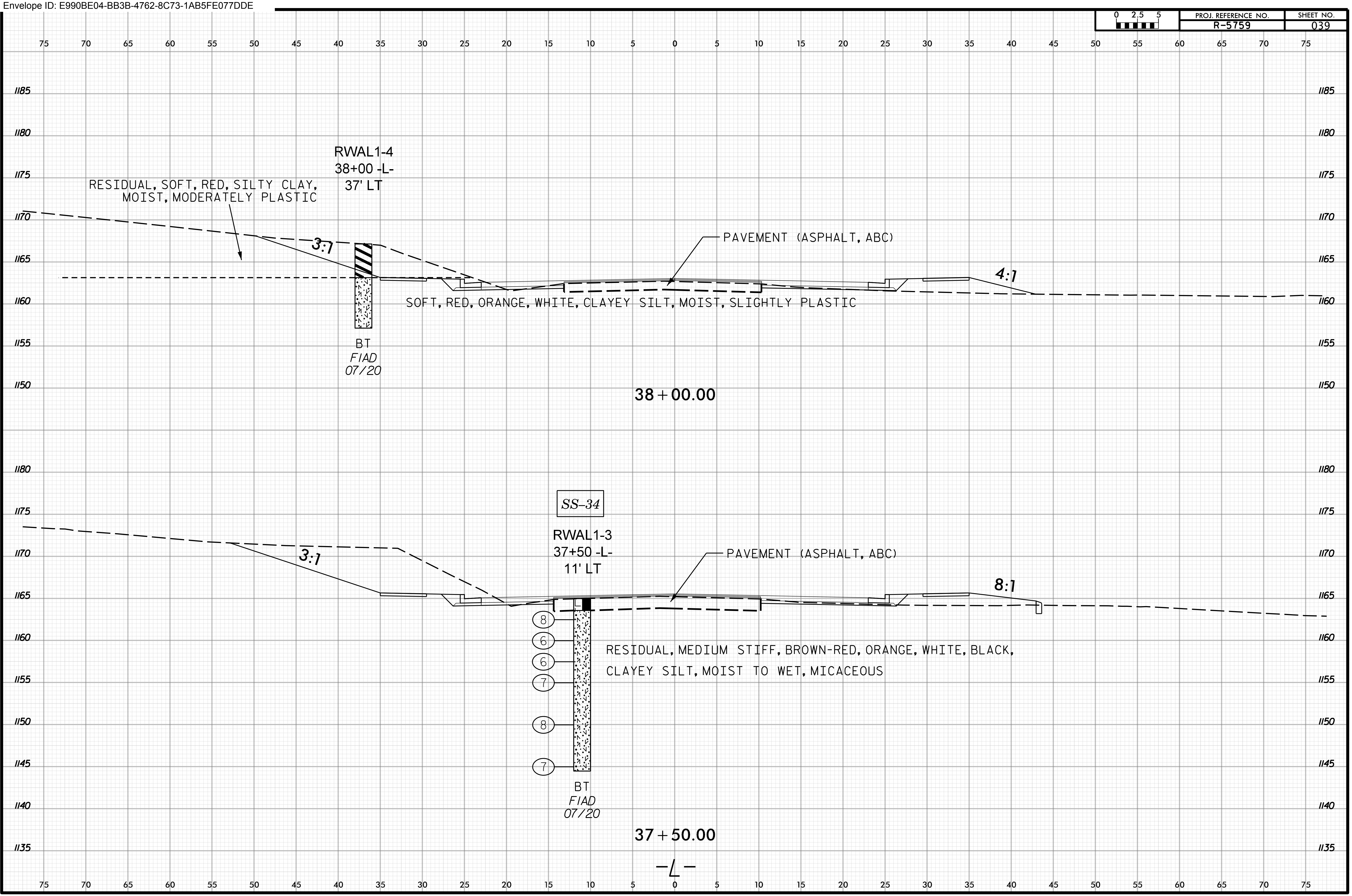
50
55
60
65
70
75


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1185
1180
1175
1170
1165
1160
1155
1150
1145
1140
SS-33
RWAL1-2
37+00 -L-
11' LT
3:1
4:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF,
RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, TRACE SAND, MODERATELY PLASTIC
7
5
6
7
7
9
MEDIUM STIFF TO STIFF, ORANGE, WHITE, BLACK, RED,
CLAYEY SILT, MOIST TO WET, TRACE MICA
BT
FIAD
07/20
37+00.00
-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	039



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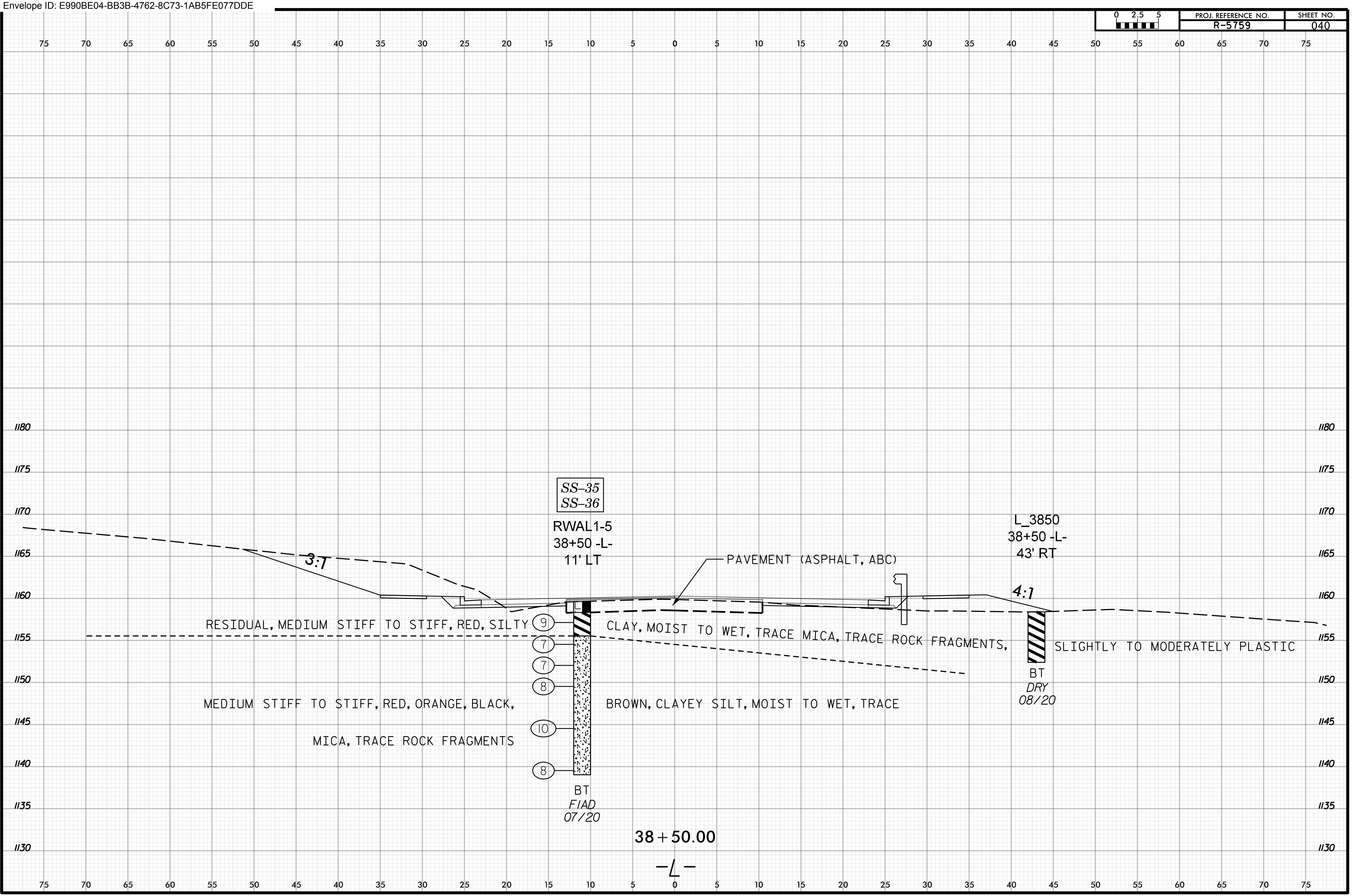

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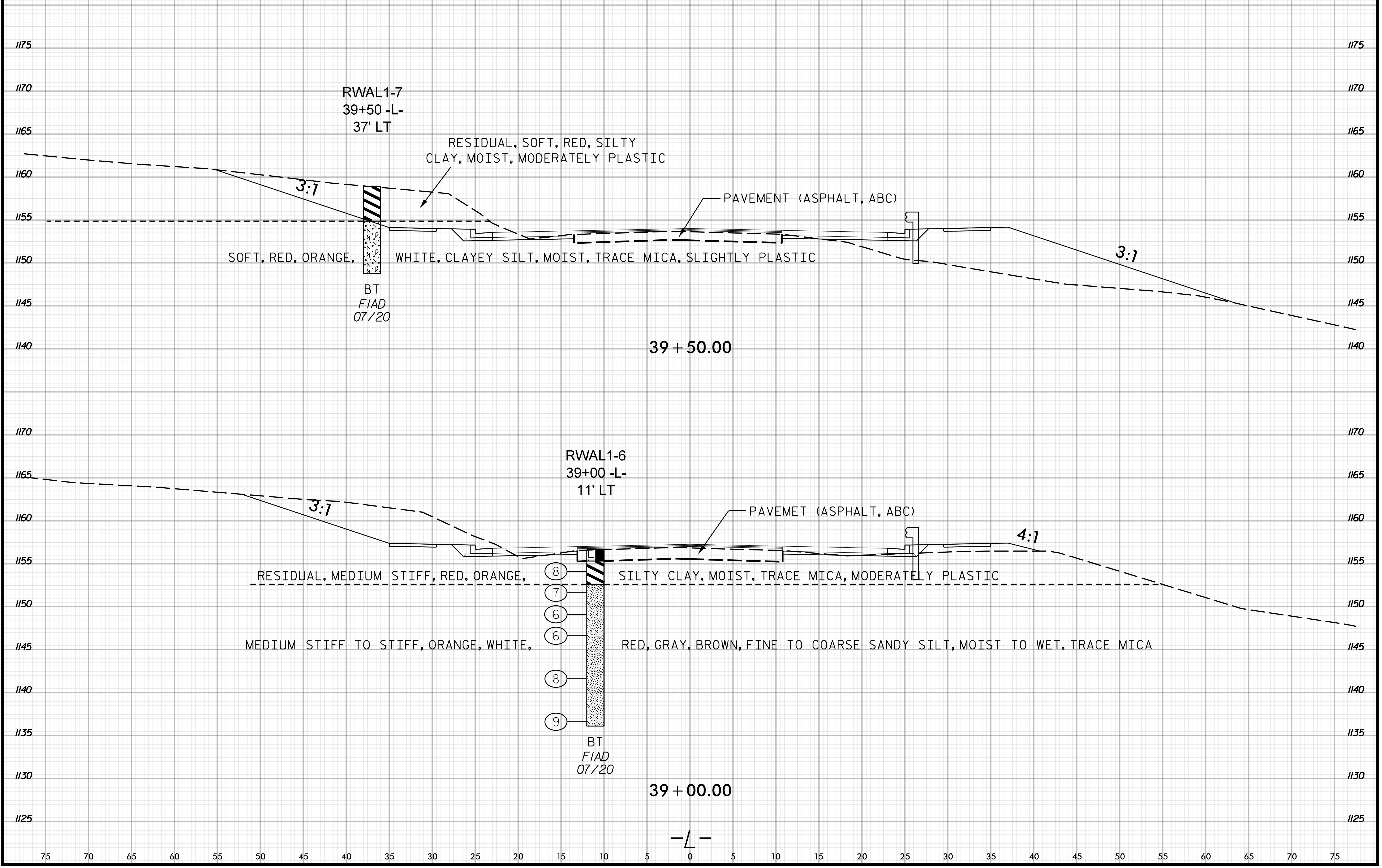
	R-5759	041



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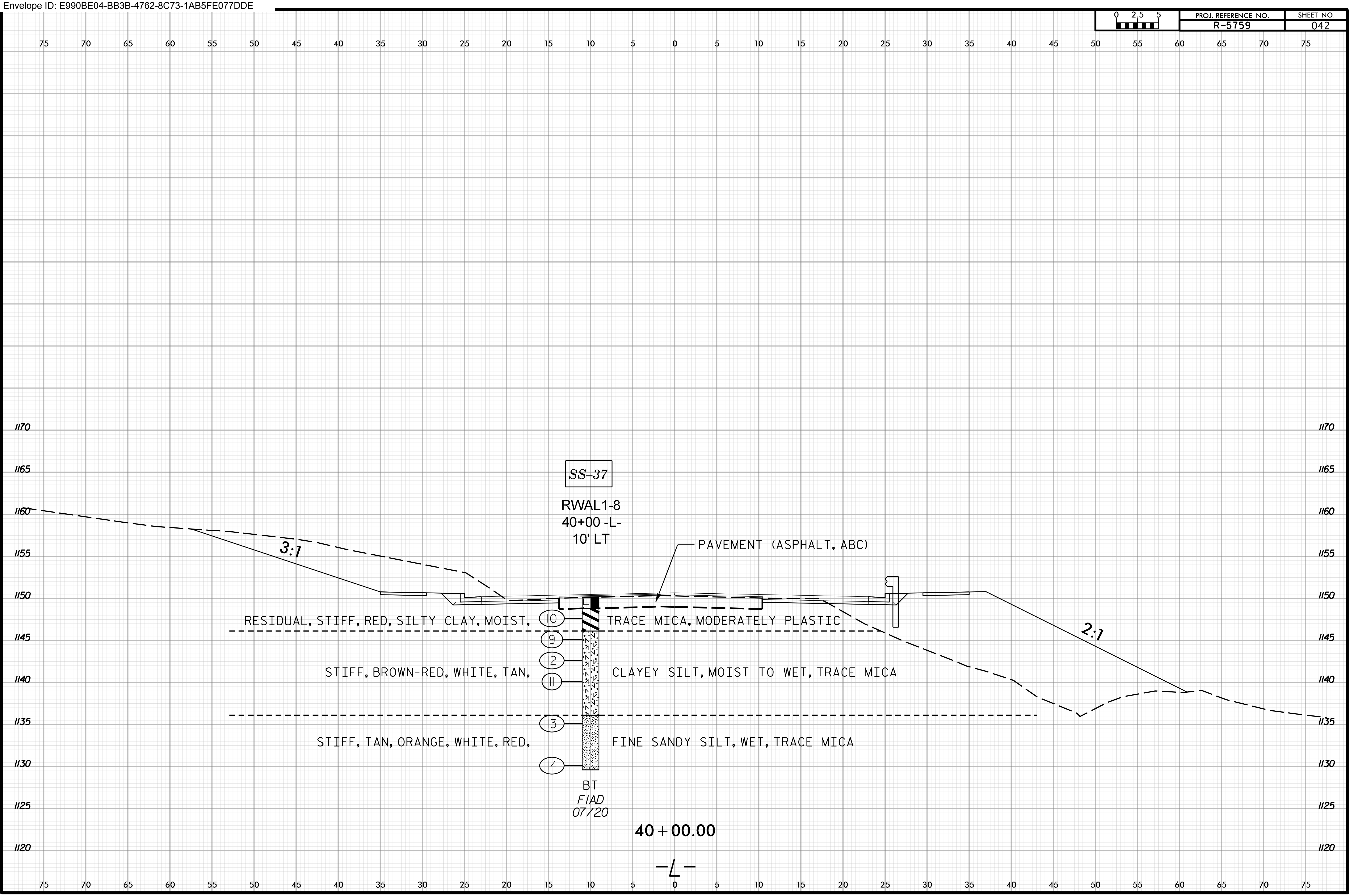

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6/23/16

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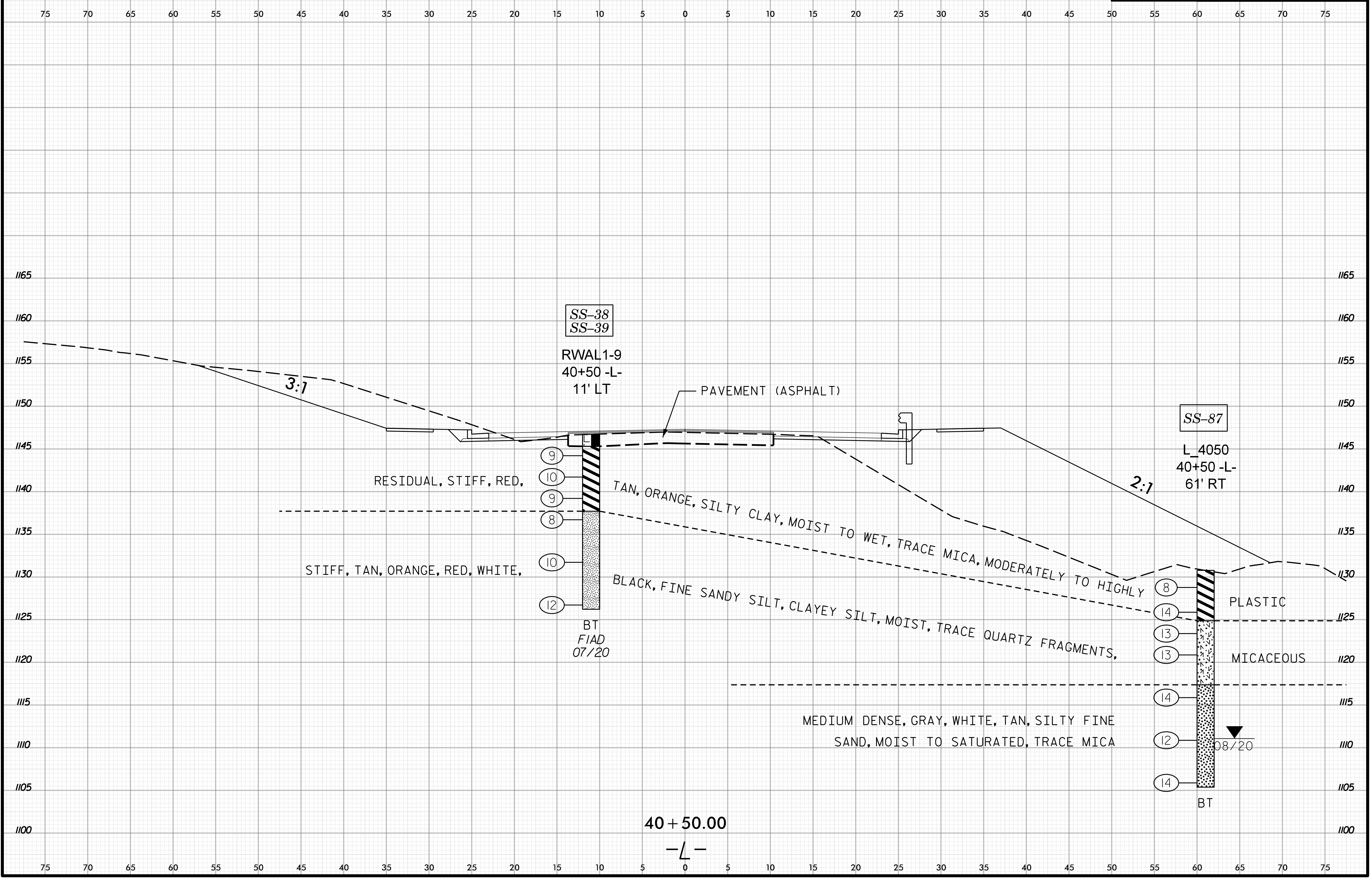

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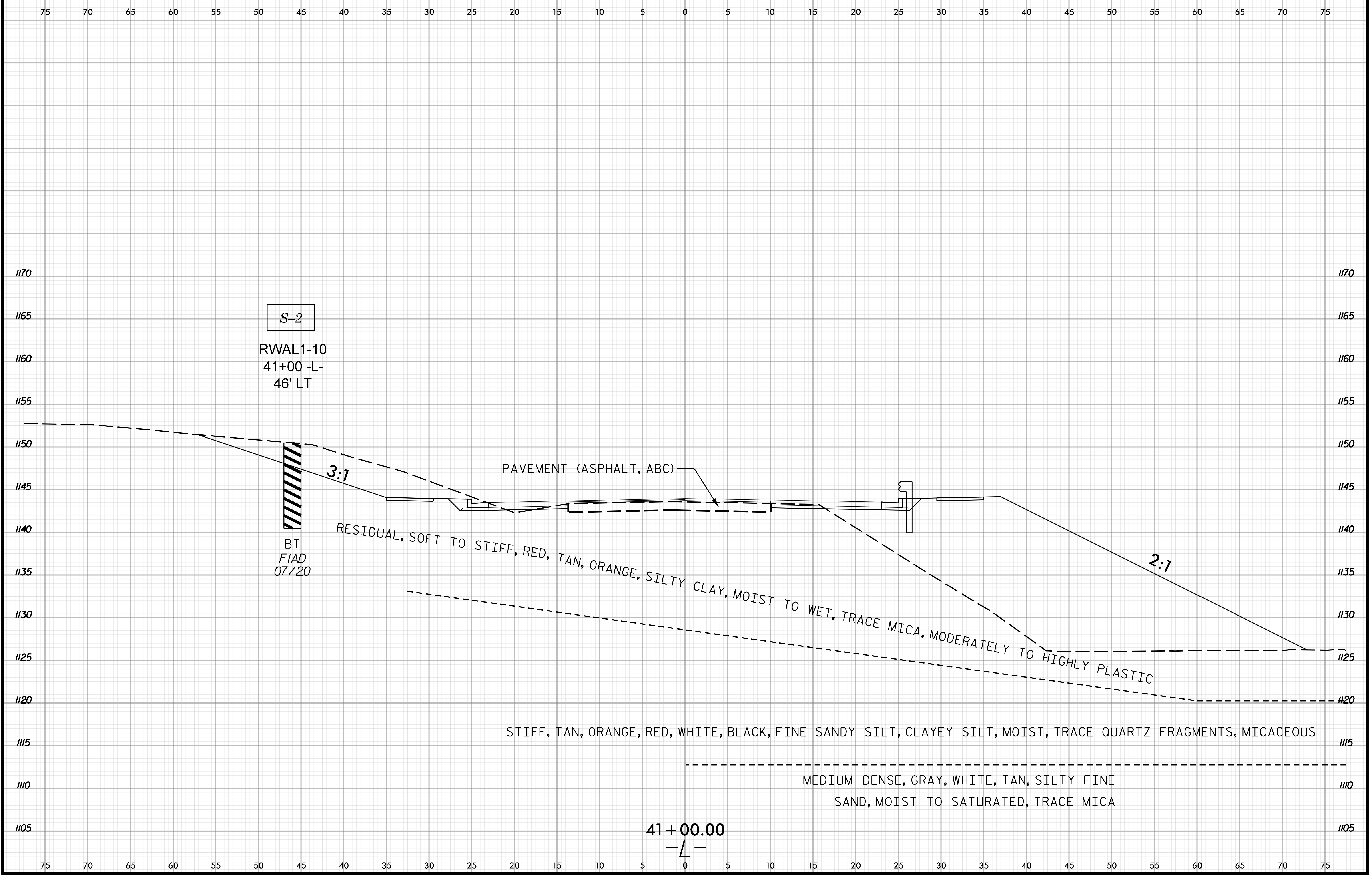
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1170
1165
1160
1155
1150
1145
1140
1135
1130
1125
1120
1115
1110
1105
S-2
RWAL1-10
41+00 -L-
46' LT
BT
FIAD
07/20
3:1
2:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT TO STIFF, RED, TAN, ORANGE, SILTY CLAY, MOIST TO WET, TRACE MICA, MODERATELY TO HIGHLY PLASTIC
STIFF, TAN, ORANGE, RED, WHITE, BLACK, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS, MICACEOUS
MEDIUM DENSE, GRAY, WHITE, TAN, SILTY FINE
SAND, MOIST TO SATURATED, TRACE MICA
41+00.00
-L-

28-AUG-2024 08:57
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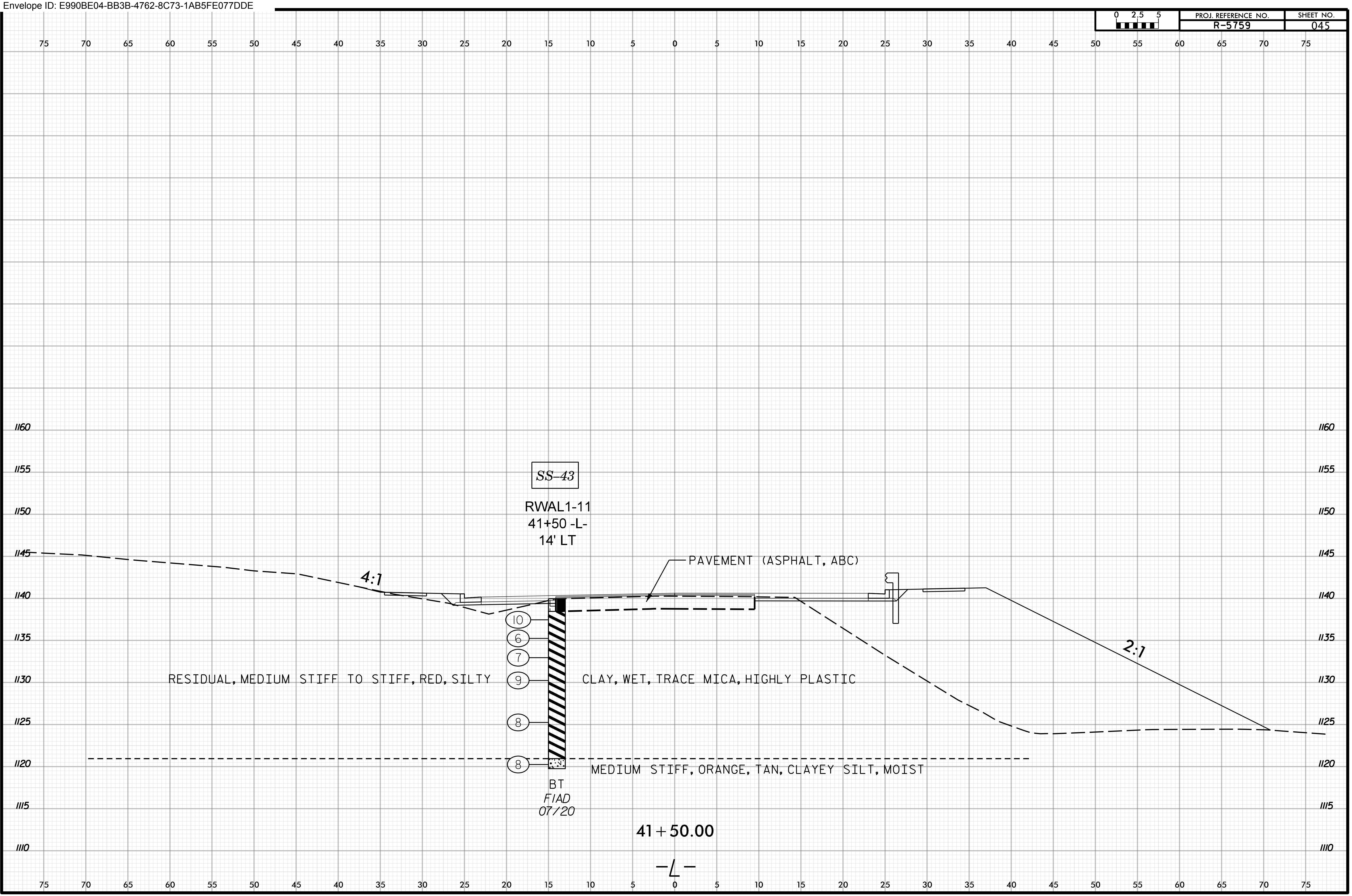
6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	045



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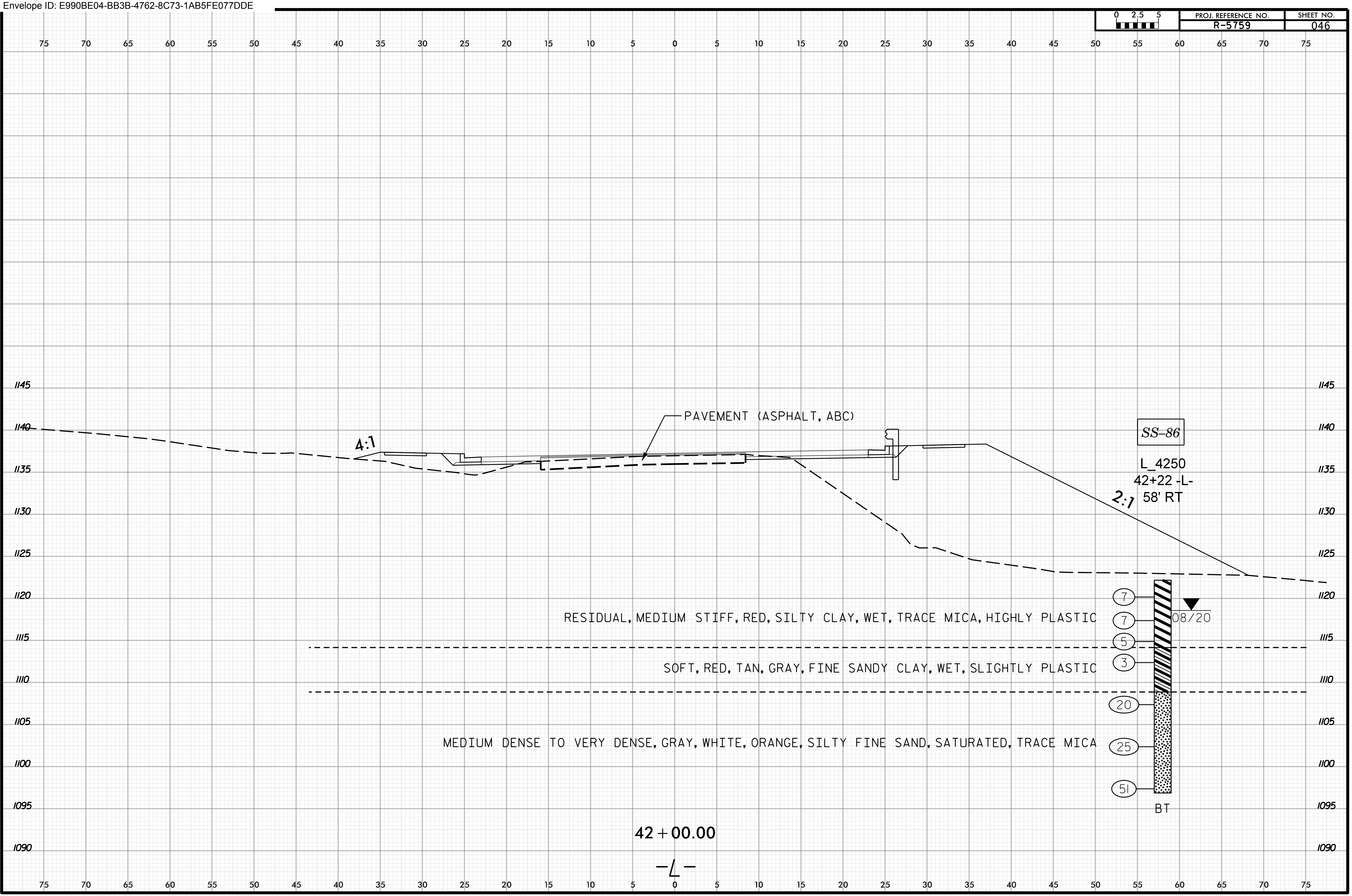
R-5759	046



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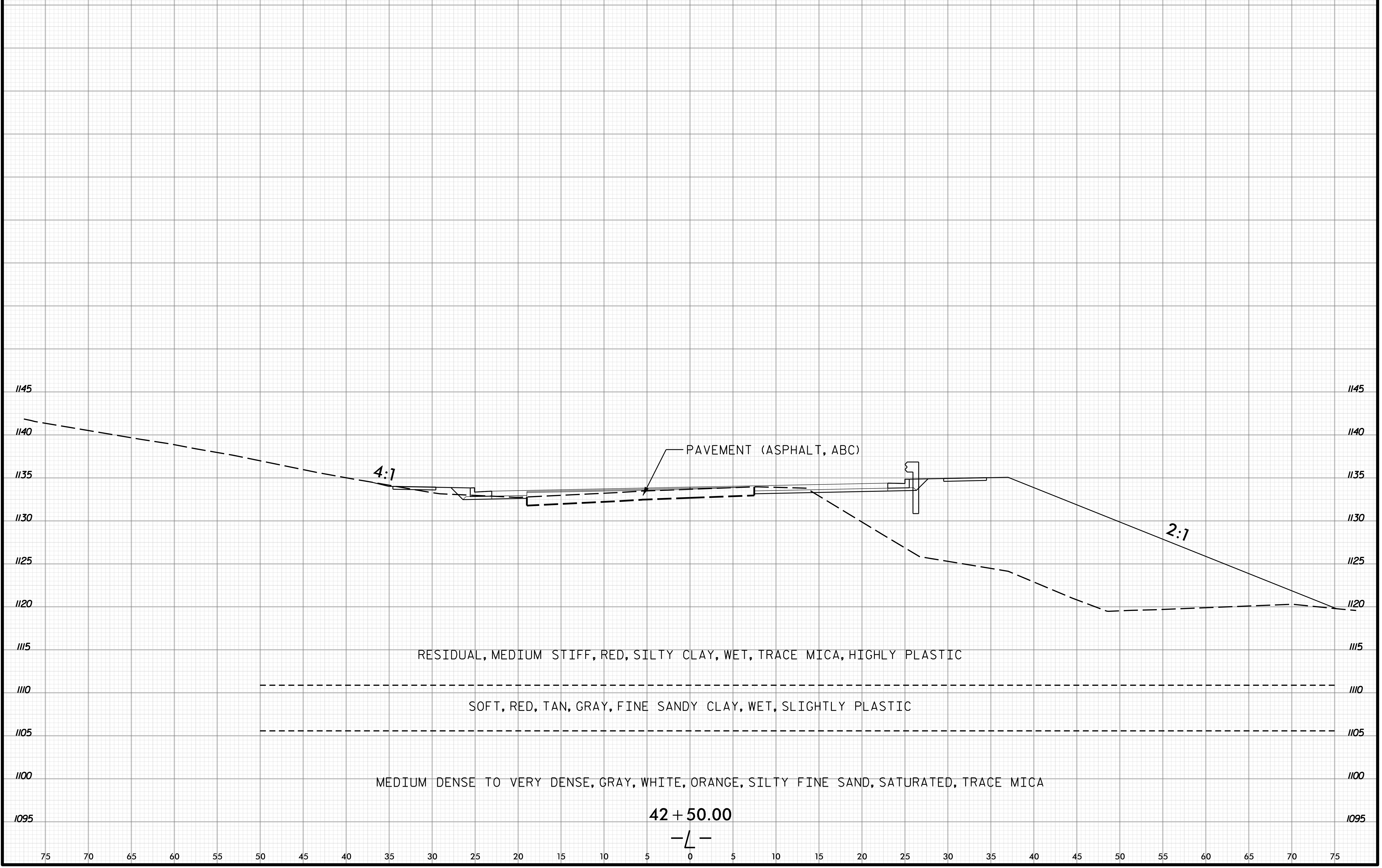
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1145
1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
4:1
PAVEMENT (ASPHALT, ABC)
2:1
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, TAN, GRAY, FINE SANDY CLAY, WET, SLIGHTLY PLASTIC
MEDIUM DENSE TO VERY DENSE, GRAY, WHITE, ORANGE, SILTY FINE SAND, SATURATED, TRACE MICA
42+50.00
-L-

28-AUG-2024 08:57
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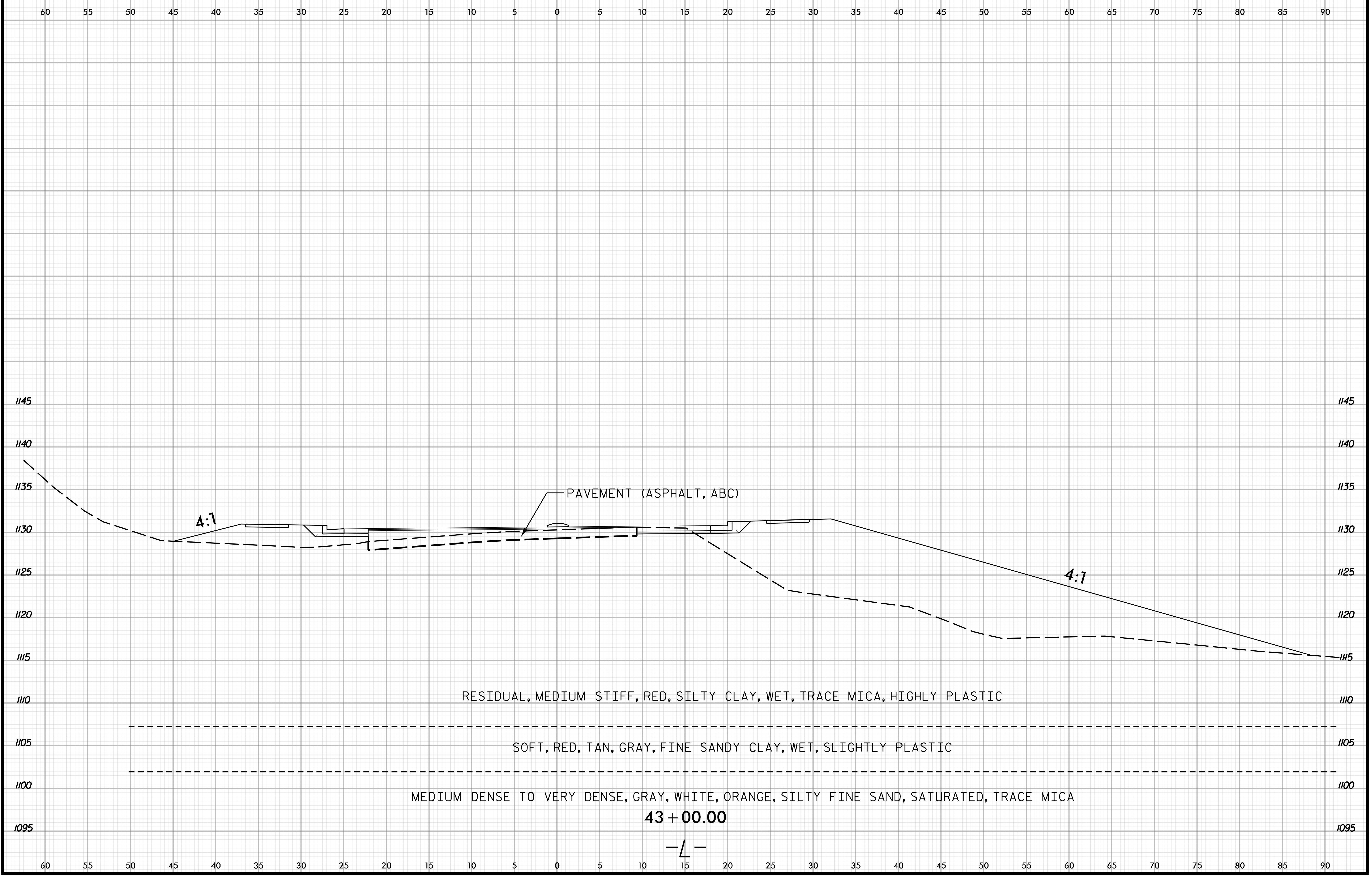
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1145
1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
4:1
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, TAN, GRAY, FINE SANDY CLAY, WET, SLIGHTLY PLASTIC
MEDIUM DENSE TO VERY DENSE, GRAY, WHITE, ORANGE, SILTY FINE SAND, SATURATED, TRACE MICA

43+00.00

-L-

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mlhartman AT W0070050699

6/23/16

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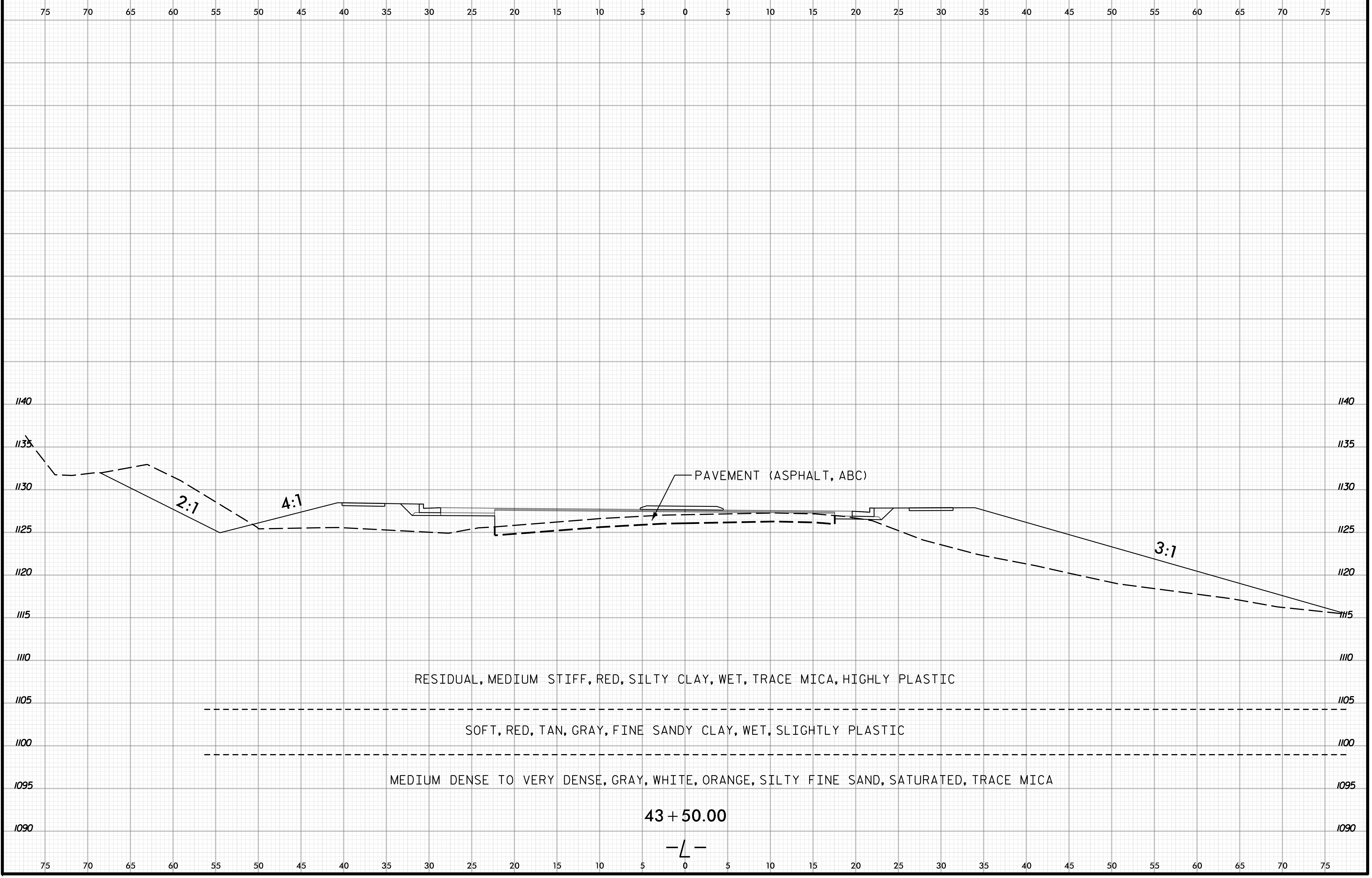
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1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
1090
2:1
4:1
3:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, TAN, GRAY, FINE SANDY CLAY, WET, SLIGHTLY PLASTIC
MEDIUM DENSE TO VERY DENSE, GRAY, WHITE, ORANGE, SILTY FINE SAND, SATURATED, TRACE MICA
43+50.00
-L-

28-AUG-2024 08:57
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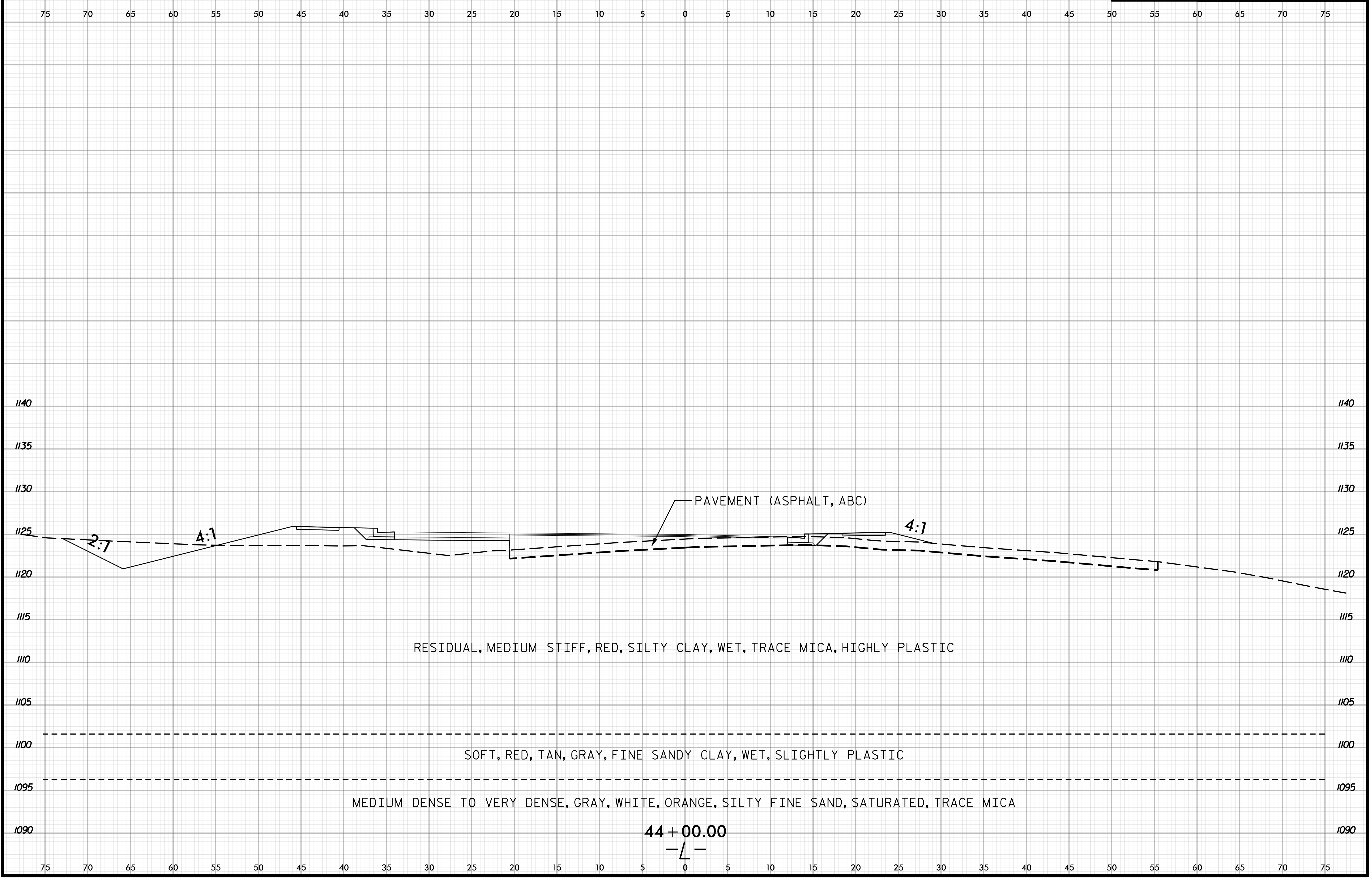
6/23/16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1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
1090
2:1
4:1
4:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, TAN, GRAY, FINE SANDY CLAY, WET, SLIGHTLY PLASTIC
MEDIUM DENSE TO VERY DENSE, GRAY, WHITE, ORANGE, SILTY FINE SAND, SATURATED, TRACE MICA
44+00.00
-L-

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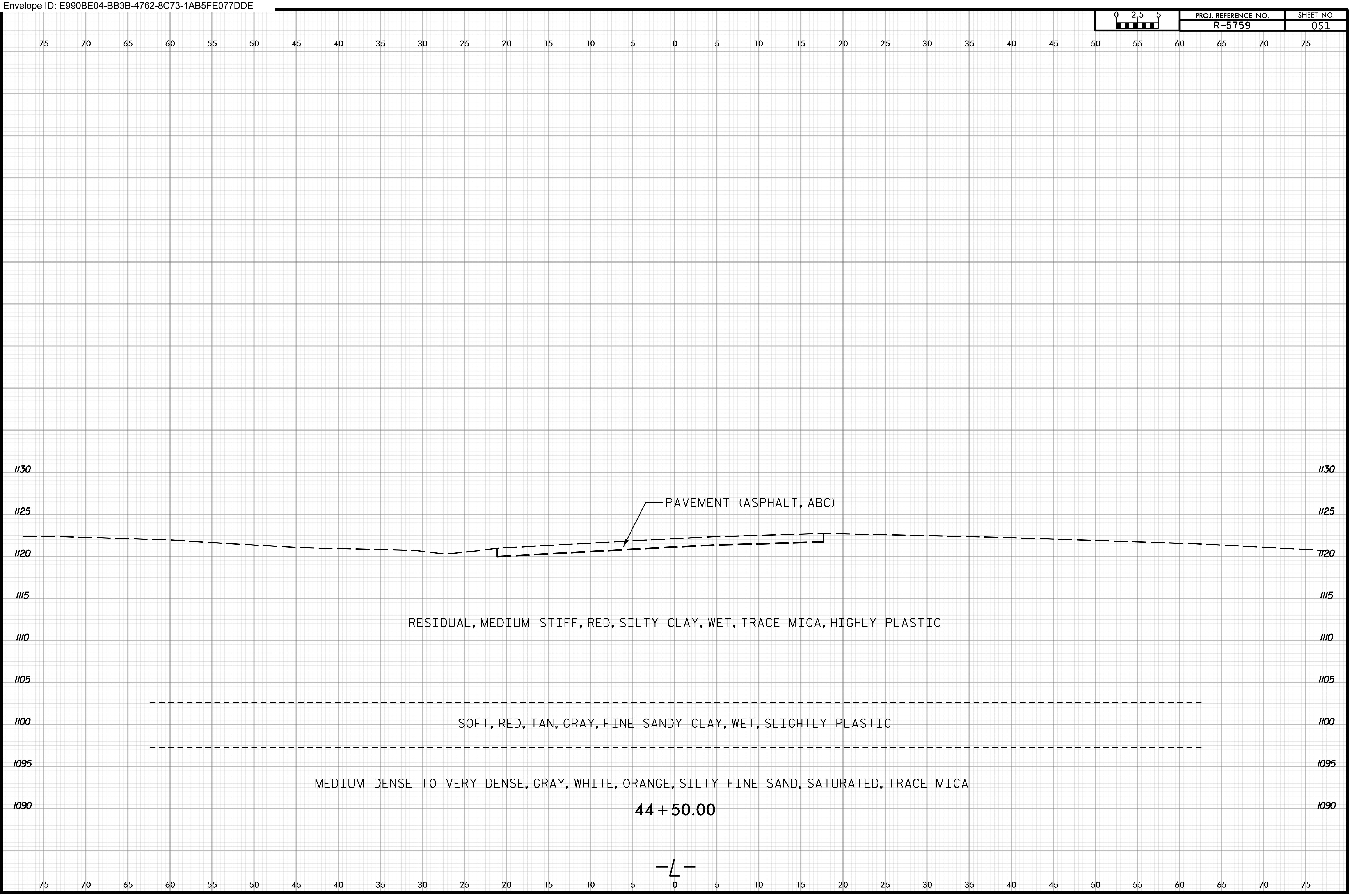
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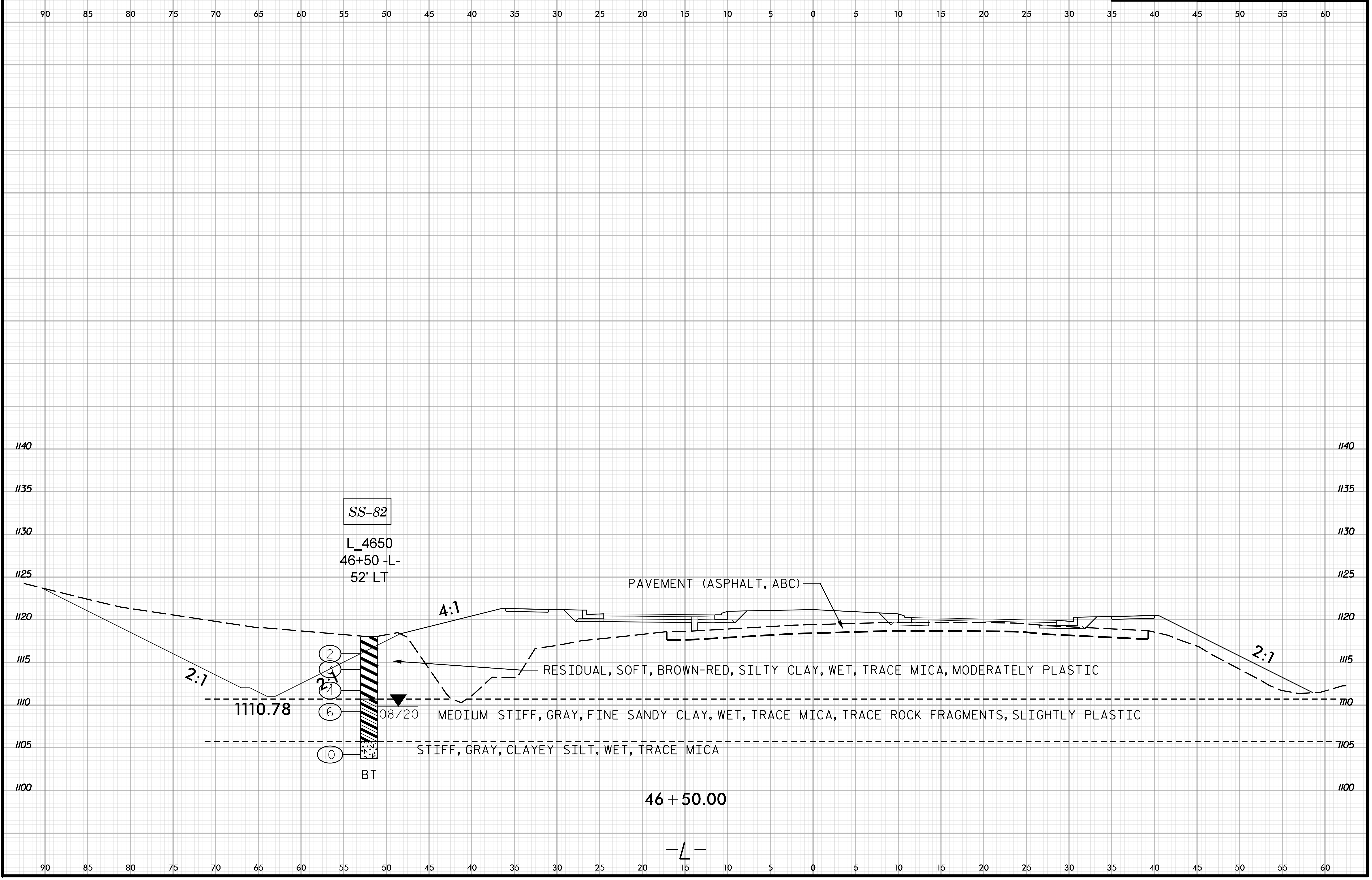
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1130
1125
1120
1115
1110
1105
1100
1095
1090
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, TAN, GRAY, FINE SANDY CLAY, WET, SLIGHTLY PLASTIC
MEDIUM DENSE TO VERY DENSE, GRAY, WHITE, ORANGE, SILTY FINE SAND, SATURATED, TRACE MICA
44+50.00
-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	052

6/23/16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85
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15
20
25
30
35
40
45
50
55
60
1140
1135
1130
1125
1120
1115
1110
1105
1100
SS-82
L_4650
46+50 -L-
52' LT
4:1
2:1
2:1
2:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, BROWN-RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
1110.78
2
3
4
6
10
08/20
MEDIUM STIFF, GRAY, FINE SANDY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, SLIGHTLY PLASTIC
STIFF, GRAY, CLAYEY SILT, WET, TRACE MICA
BT
46+50.00
-L-

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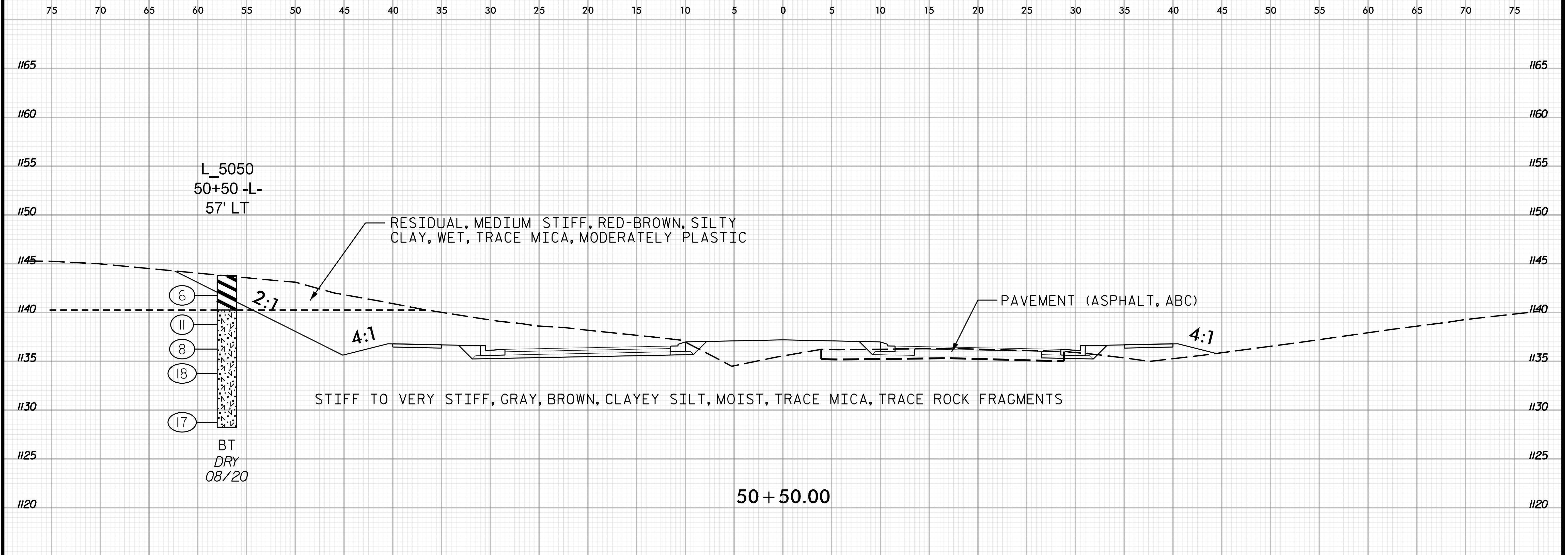
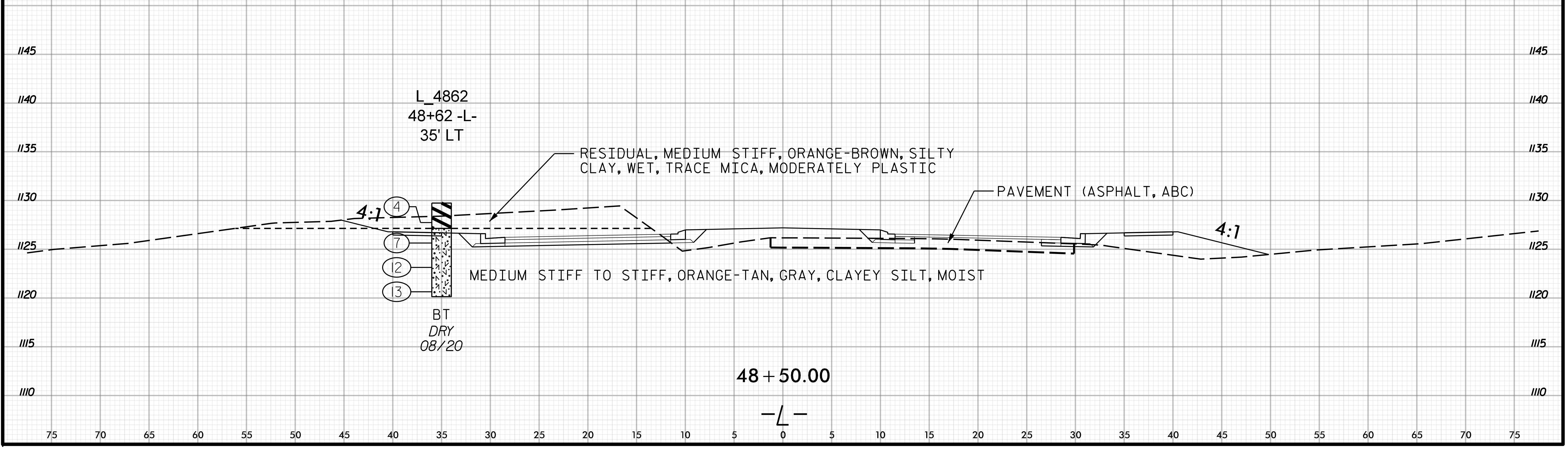


50+50.00



48+50.00

-L-

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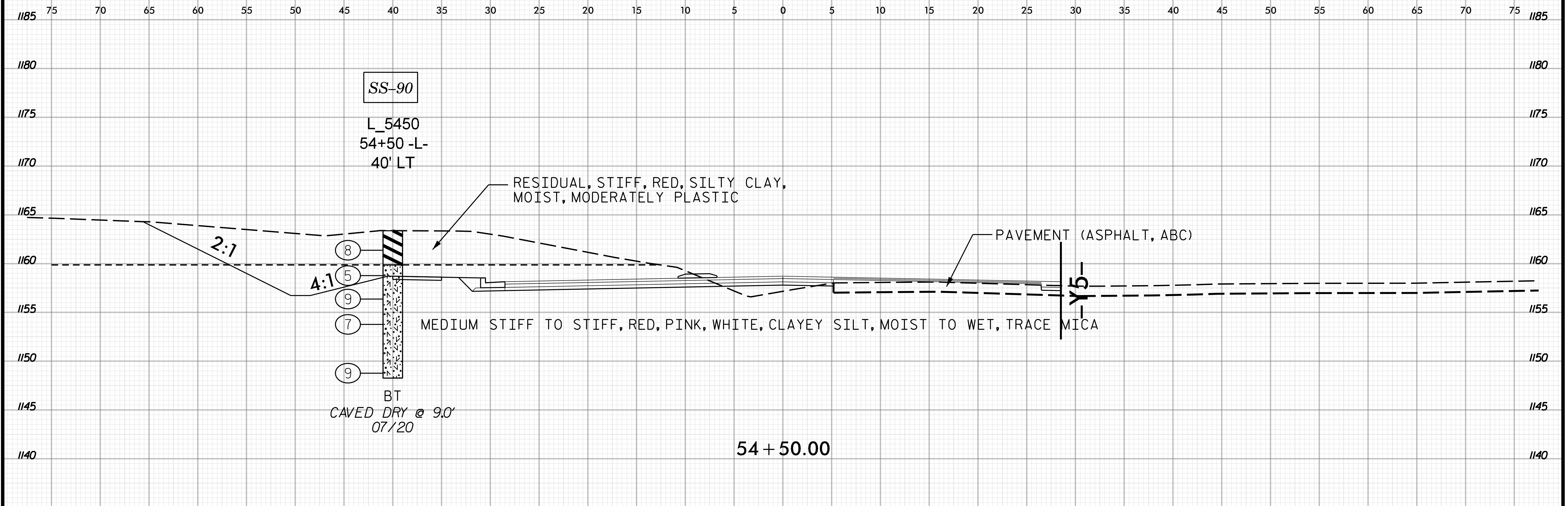
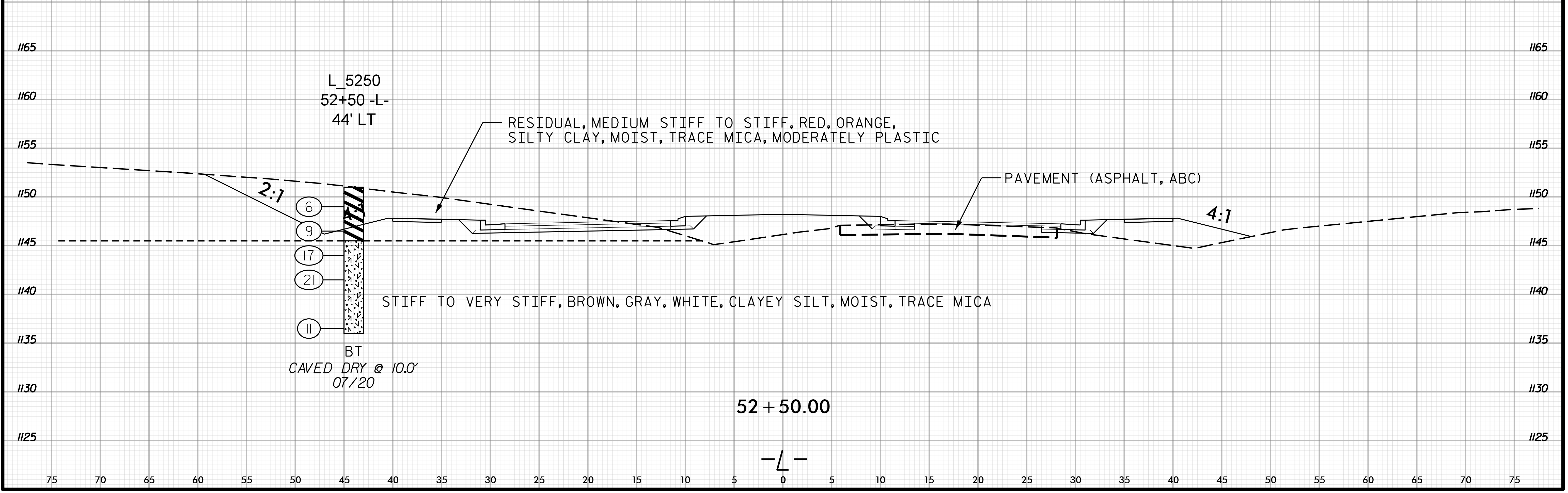


54+50.00



52+50.00

-L-

6/23/16

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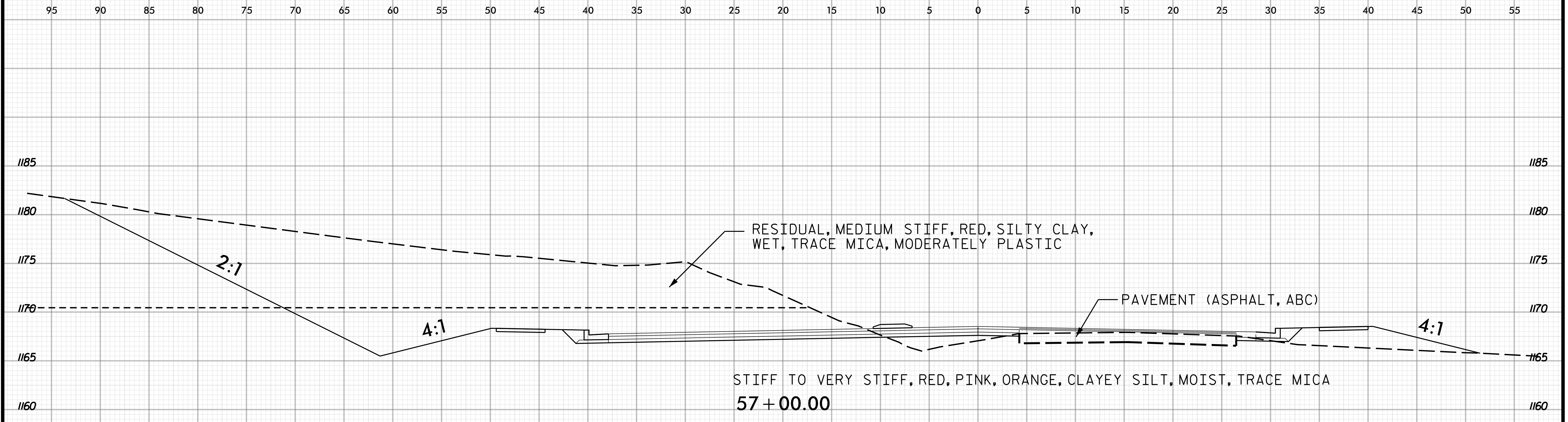
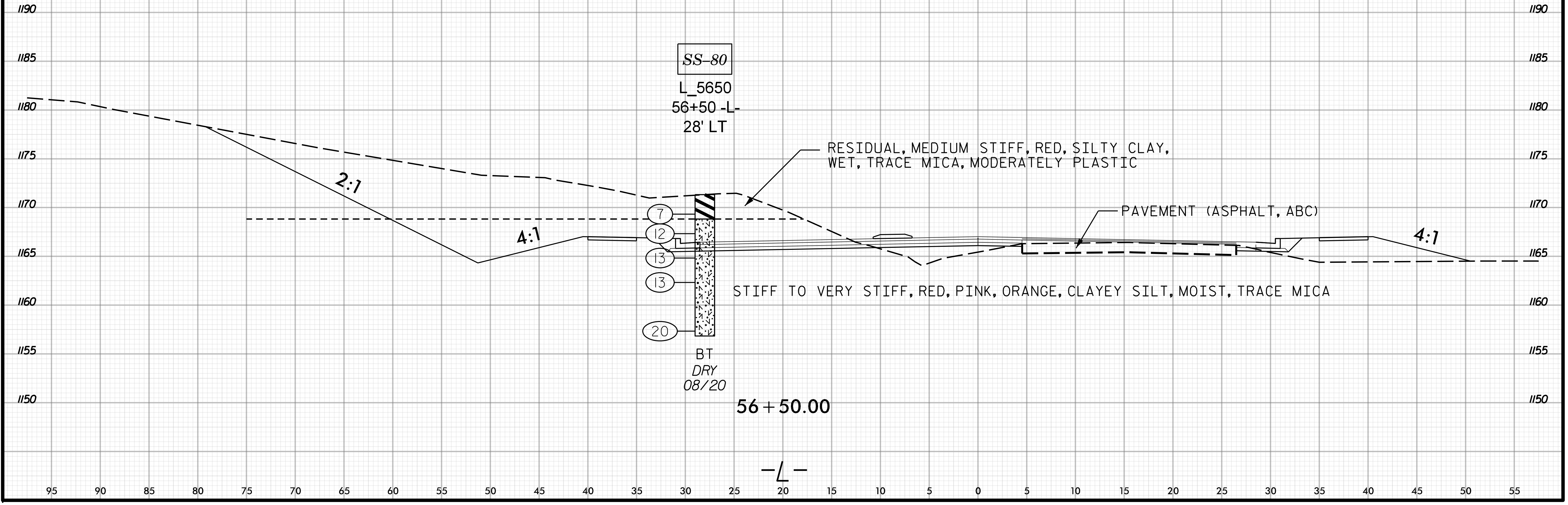
PROJ. REFERENCE NO.	SHEET NO.
R-5759	055





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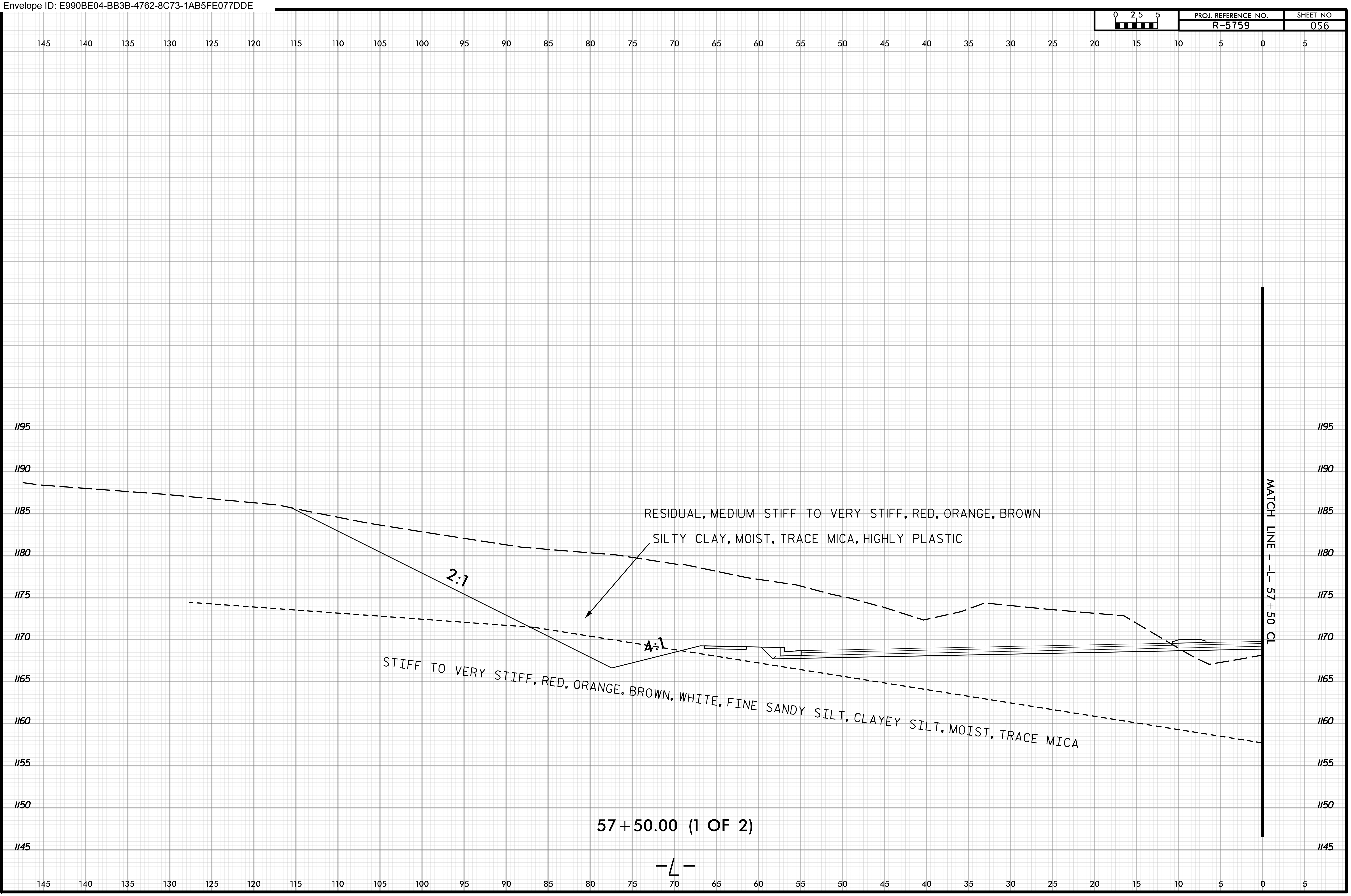
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145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1195
1190
1185
1180
1175
1170
1165
1160
1155
1150
1145
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
4:1
STIFF TO VERY STIFF, RED, ORANGE, BROWN, WHITE, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA
MATCH LINE -L- 57+50 CL

57+50.00 (1 OF 2)

-L-

6/23/16

28-AUG-2024 08:57
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mlhartman AT W00700050699

6/23/16

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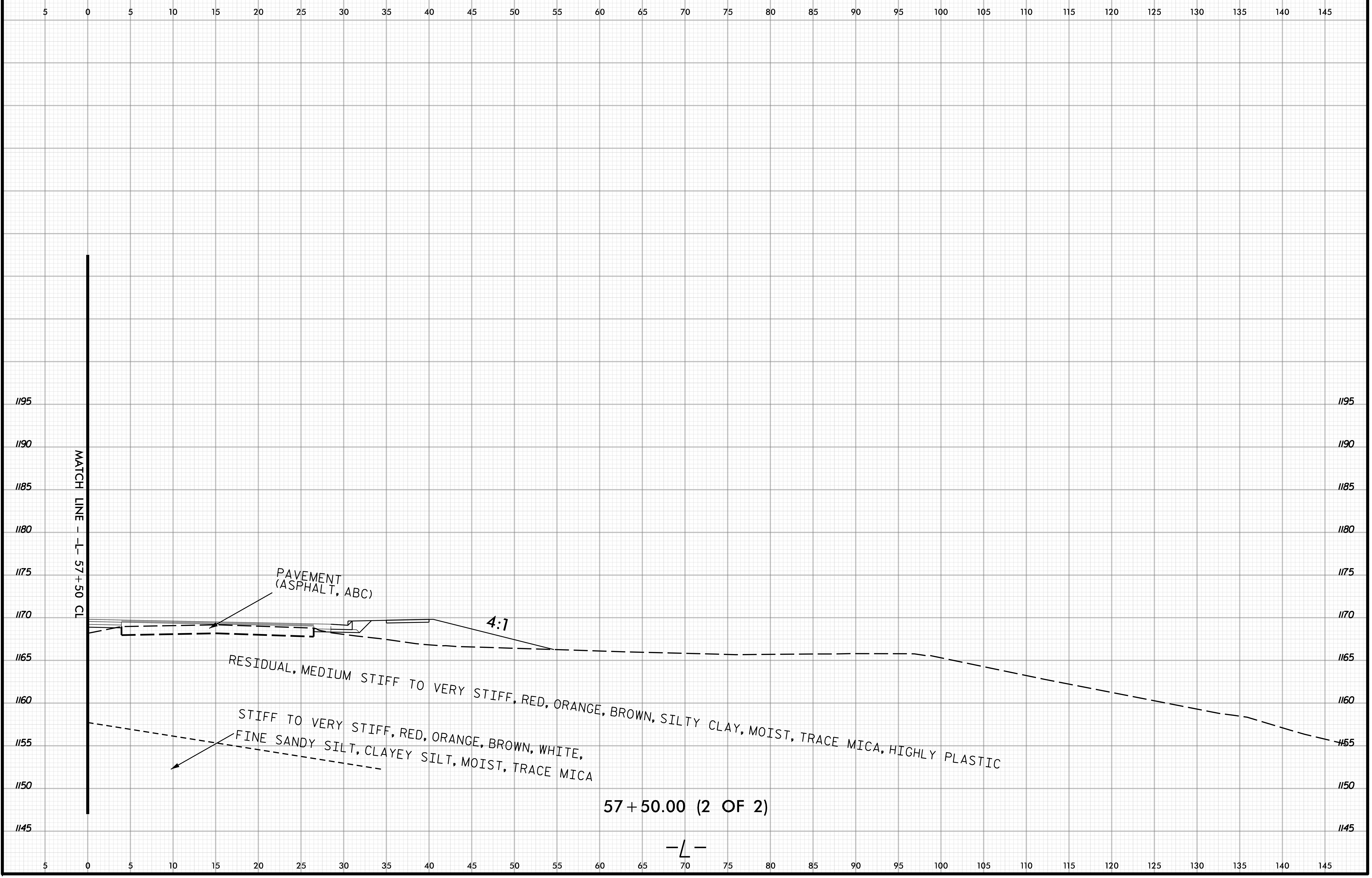
	R-5759	057



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1195
1190
1185
1180
1175
1170
1165
1160
1155
1150
1145
MATCH LINE – -L- 57+50 CL
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF TO VERY STIFF, RED, ORANGE, BROWN, WHITE, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA
57+50.00 (2 OF 2)
-L-

28-AUG-2024 08:57
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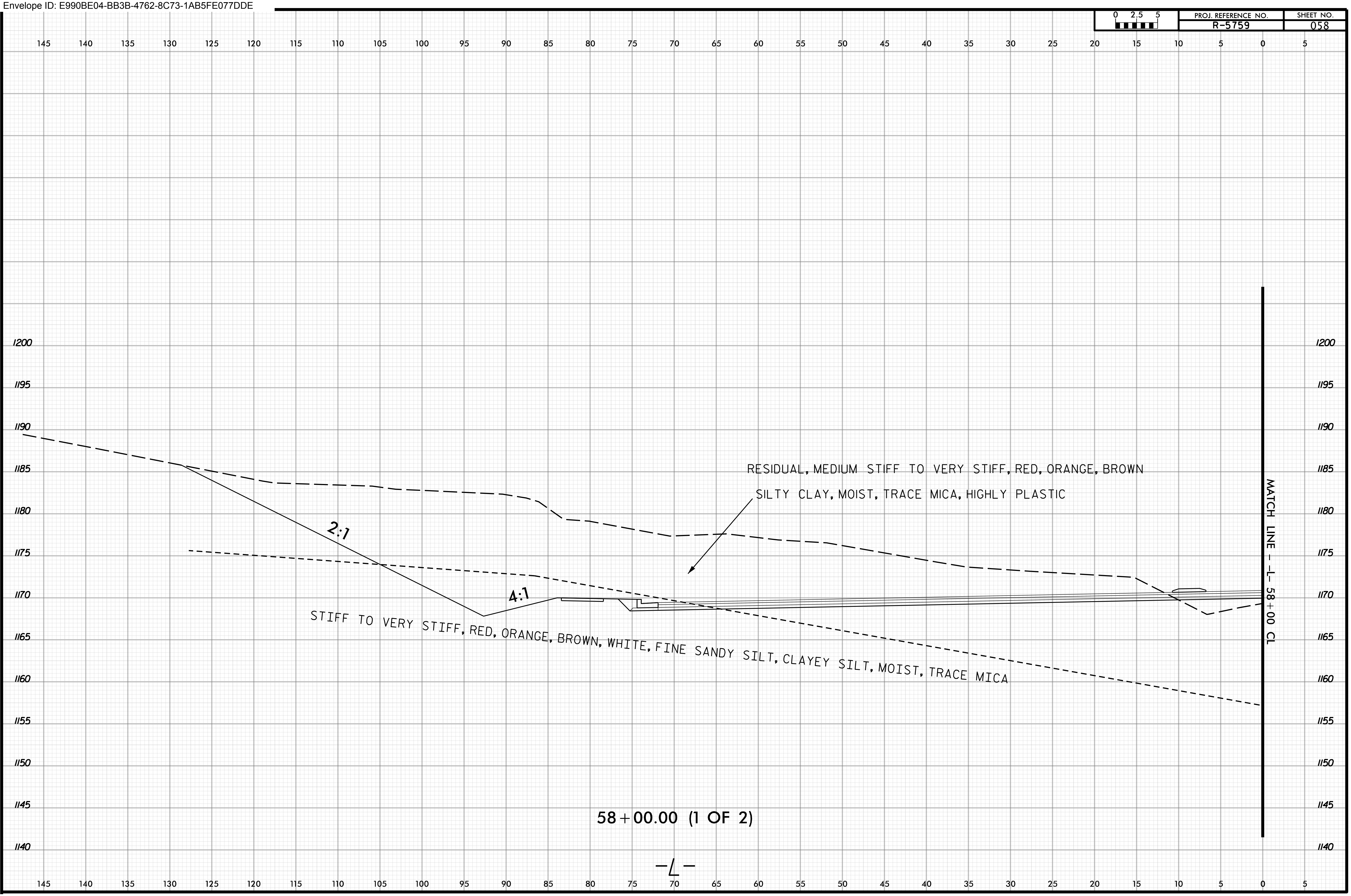
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	058

6/23/16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145
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120
115
110
105
100
95
90
85
80
75
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60
55
50
45
40
35
30
25
20
15
10
5
0
5
1200
1195
1190
1185
1180
1175
1170
1165
1160
1155
1150
1145
1140
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN
SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
4:1
STIFF TO VERY STIFF, RED, ORANGE, BROWN, WHITE, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA
MATCH LINE -L- 58+00 CL

58+00.00 (1 OF 2)

-L-

28-AUG-2024 08:57
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mlhartman AT W00700050699

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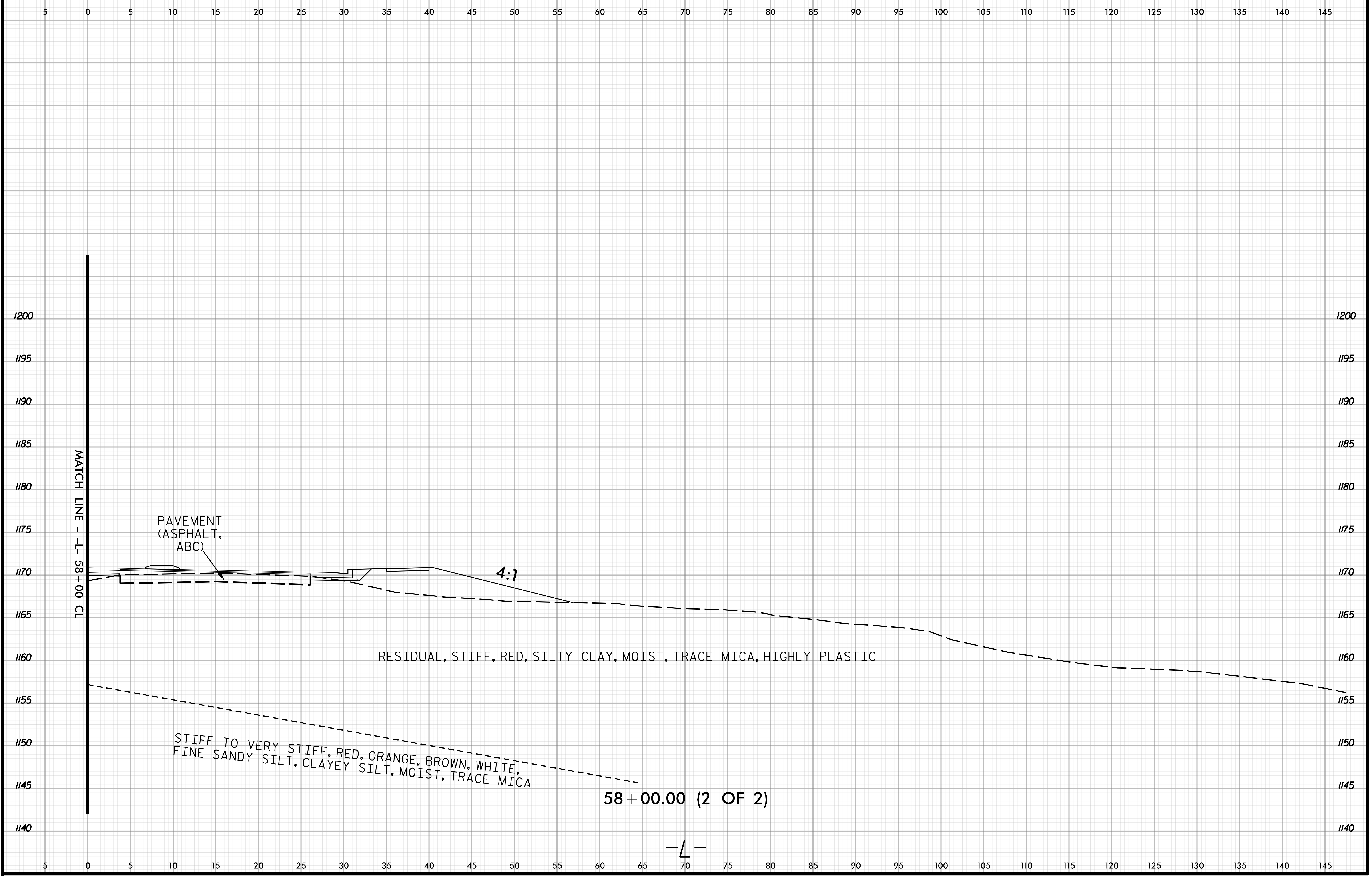
6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	059



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mlhartman AT W0070050699

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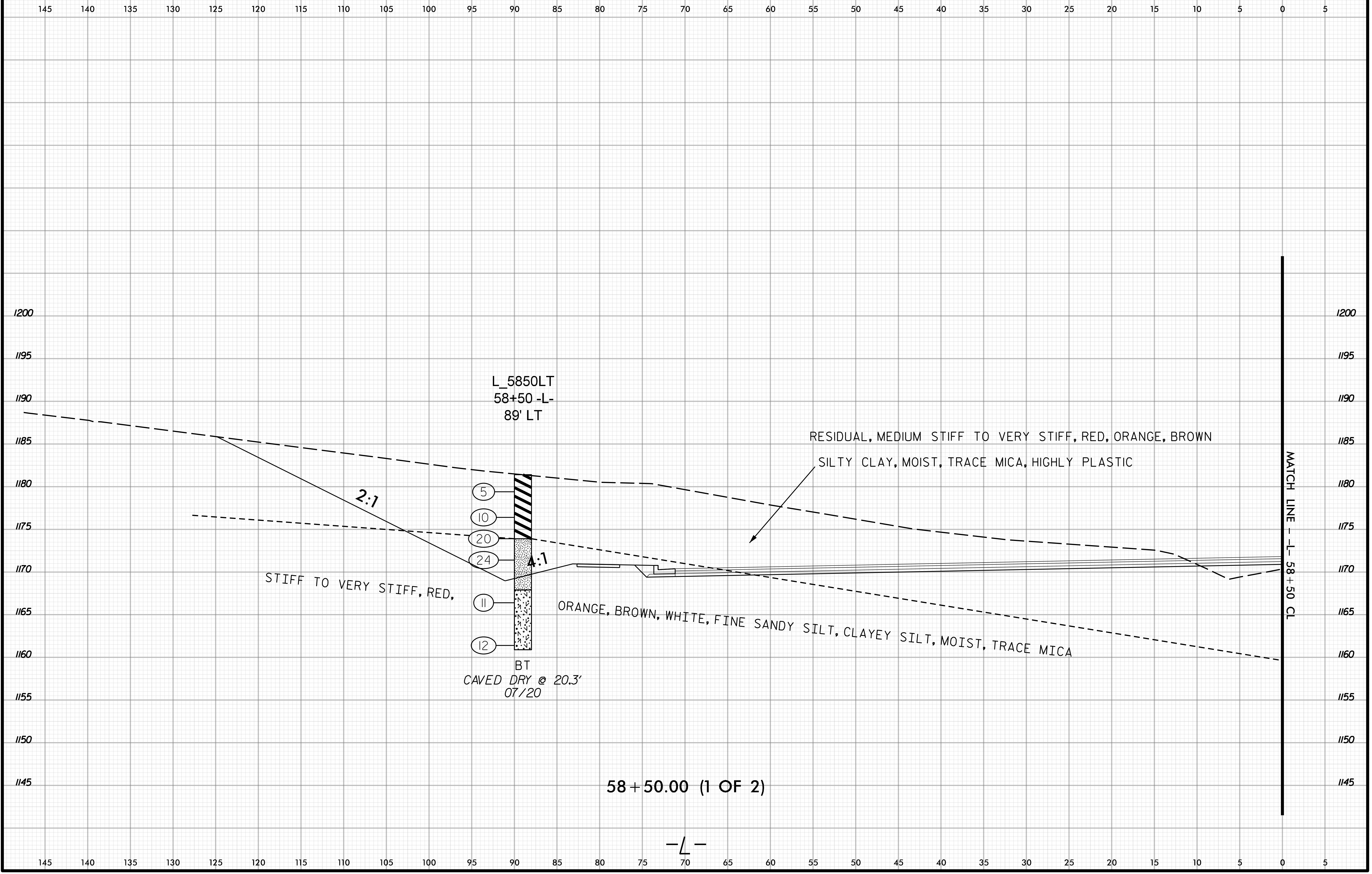
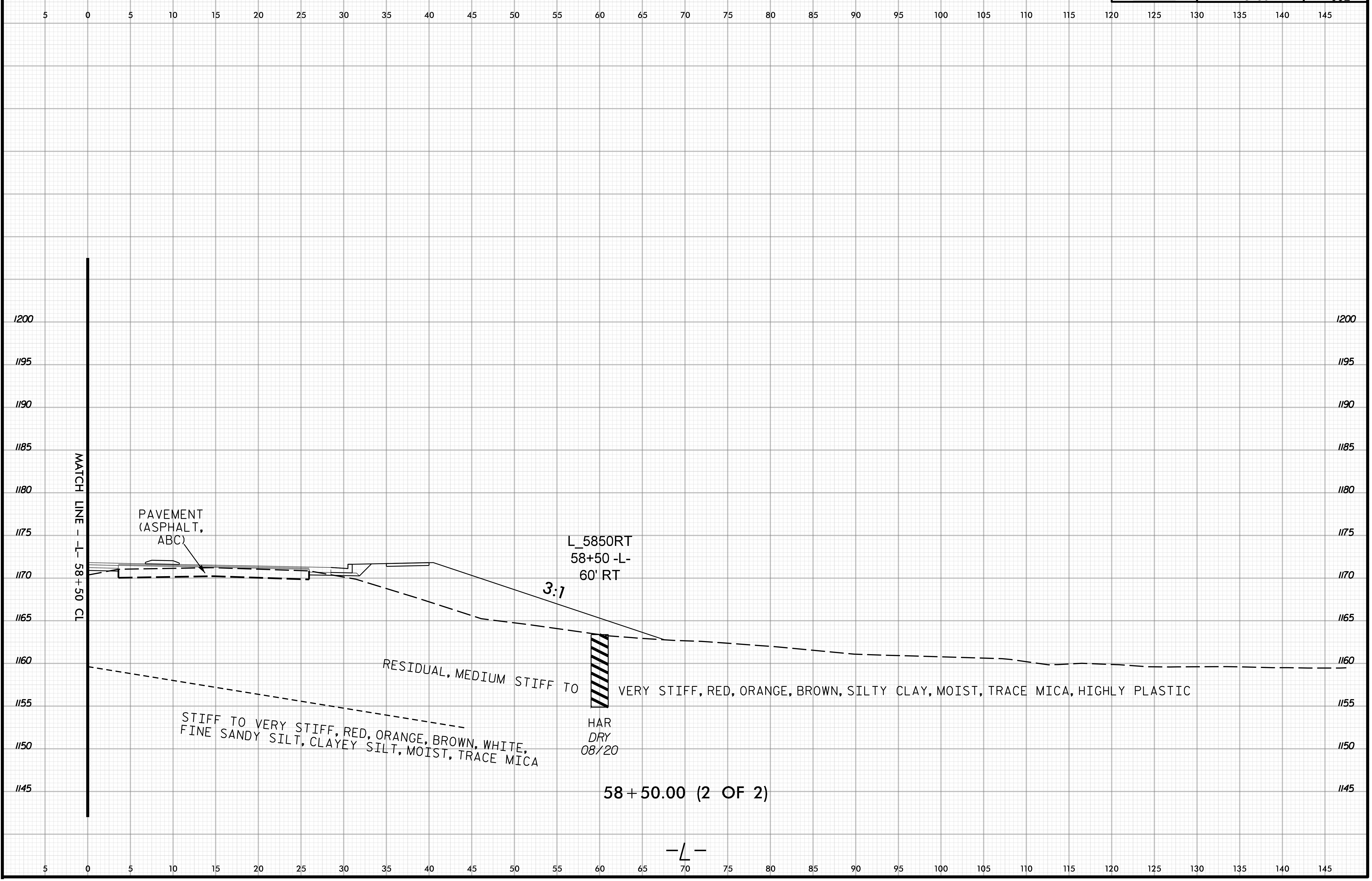
	R-5759	060


145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1200
1195
1190
1185
1180
1175
1170
1165
1160
1155
1150
1145
L_5850LT
58+50 -L-
89' LT
5
10
20
24
11
12
BT
CAVED DRY @ 20.3'
07/20
2:1
4:1
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN
SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF TO VERY STIFF, RED,
ORANGE, BROWN, WHITE, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA
MATCH LINE - -L- 58+50 CL

58+50.00 (1 OF 2)

-L-



5
0
5
10
15
20
25
30
35
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55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
1200
1195
1190
1185
1180
1175
1170
1165
1160
1155
1150
1145
MATCH LINE - -L- 58+50 CL
PAVEMENT (ASPHALT, ABC)
L_5850RT
58+50 -L-
60' RT
3:1
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF TO VERY STIFF, RED, ORANGE, BROWN, WHITE, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA
HAR
DRY
08/20

58+50.00 (2 OF 2)

-L-

6/23/16

28-AUG-2024 08:57
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mlhartman AT W0070050699

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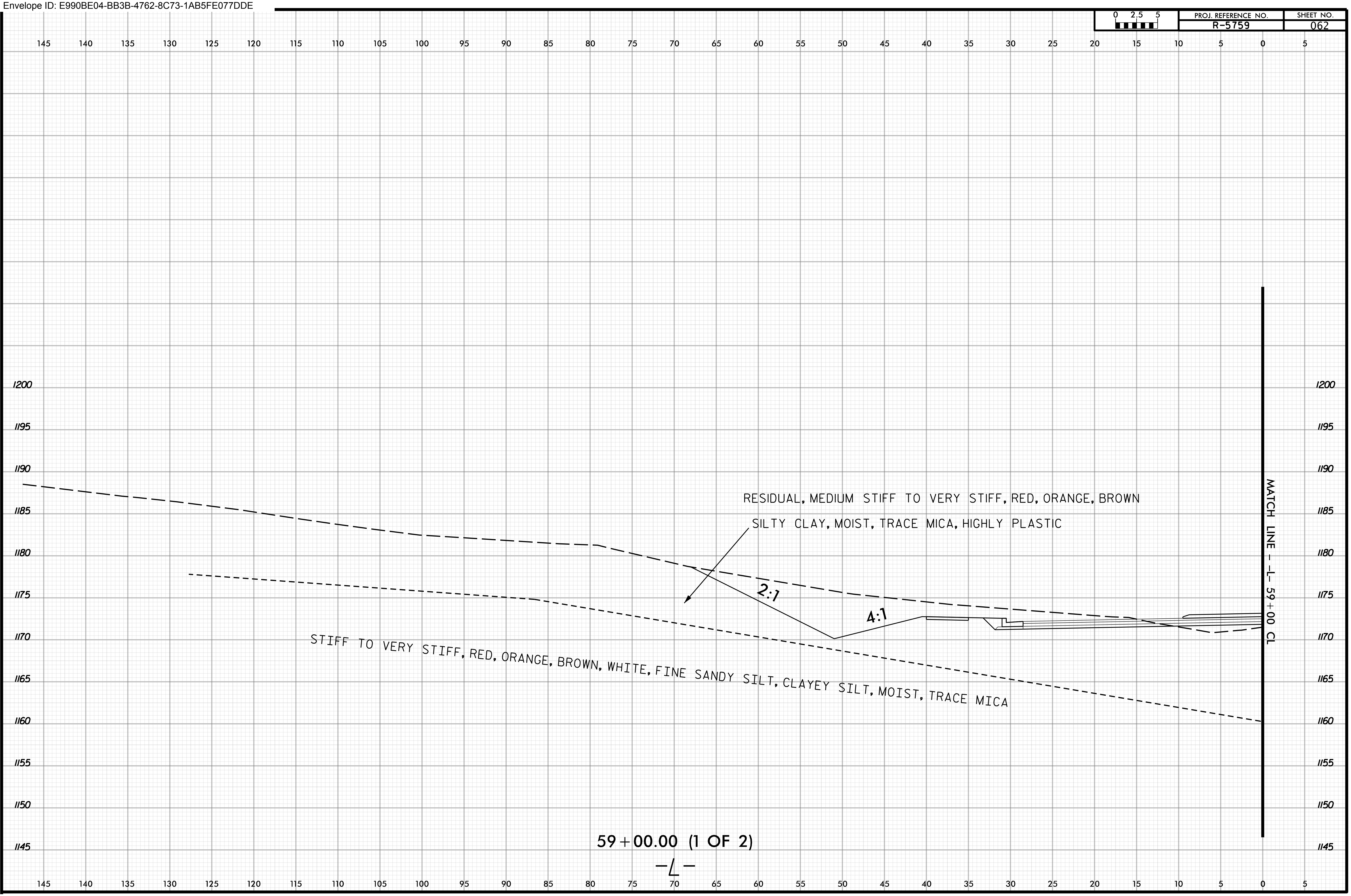
PROJ. REFERENCE NO.	SHEET NO.
R-5759	062



59+00.00 (1 OF 2)

-L-

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mlhartman AT W0070050699

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

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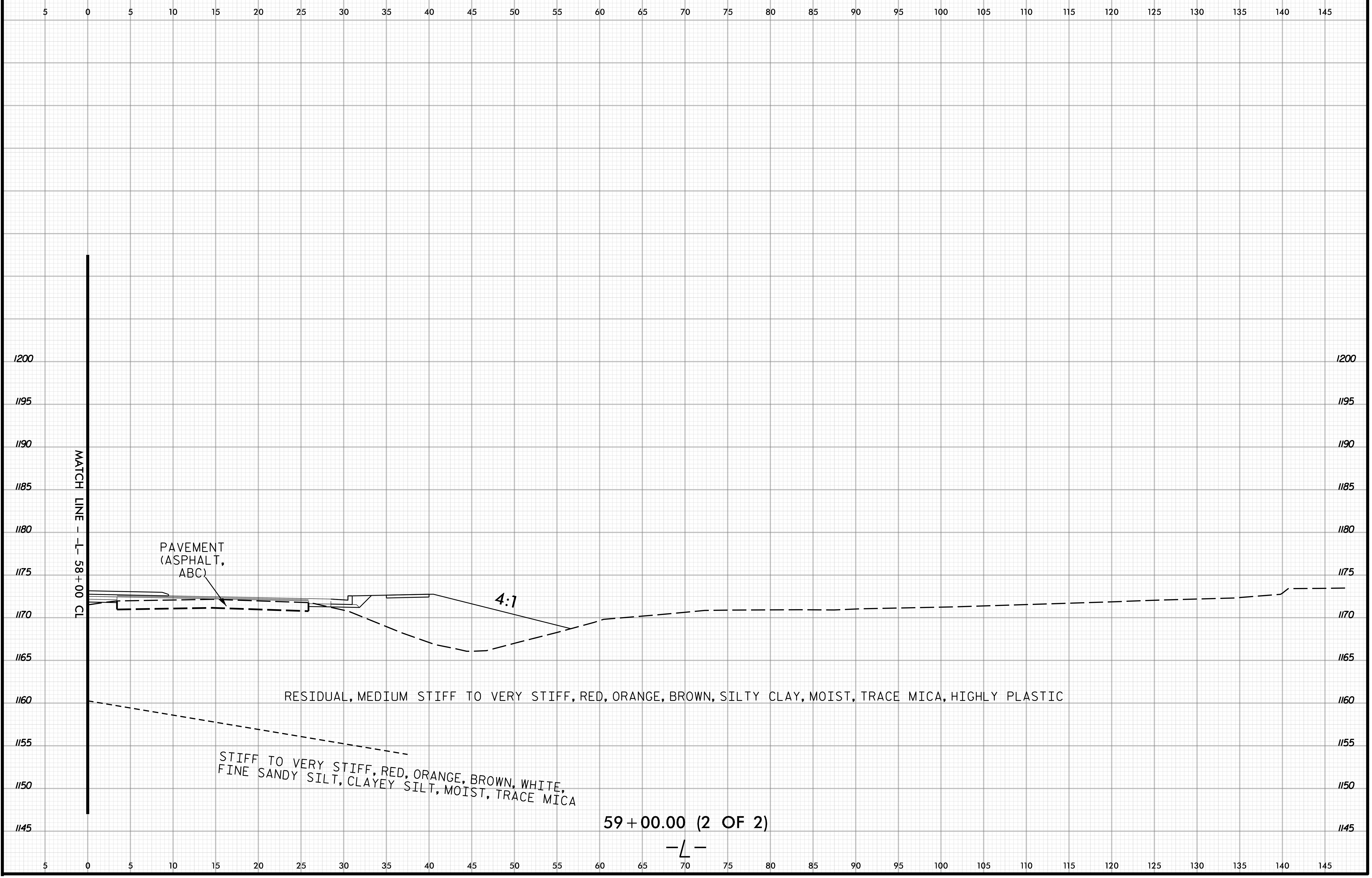

5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145
1200
1195
1190
1185
1180
1175
1170
1165
1160
1155
1150
1145
MATCH LINE – -L- 58+00 CL
PAVEMENT
(ASPHALT,
ABC)
4:1
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
STIFF TO VERY STIFF, RED, ORANGE, BROWN, WHITE,
FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA

59+00.00 (2 OF 2)

-L-

6/23/16

28-AUG-2024 08:57
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mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
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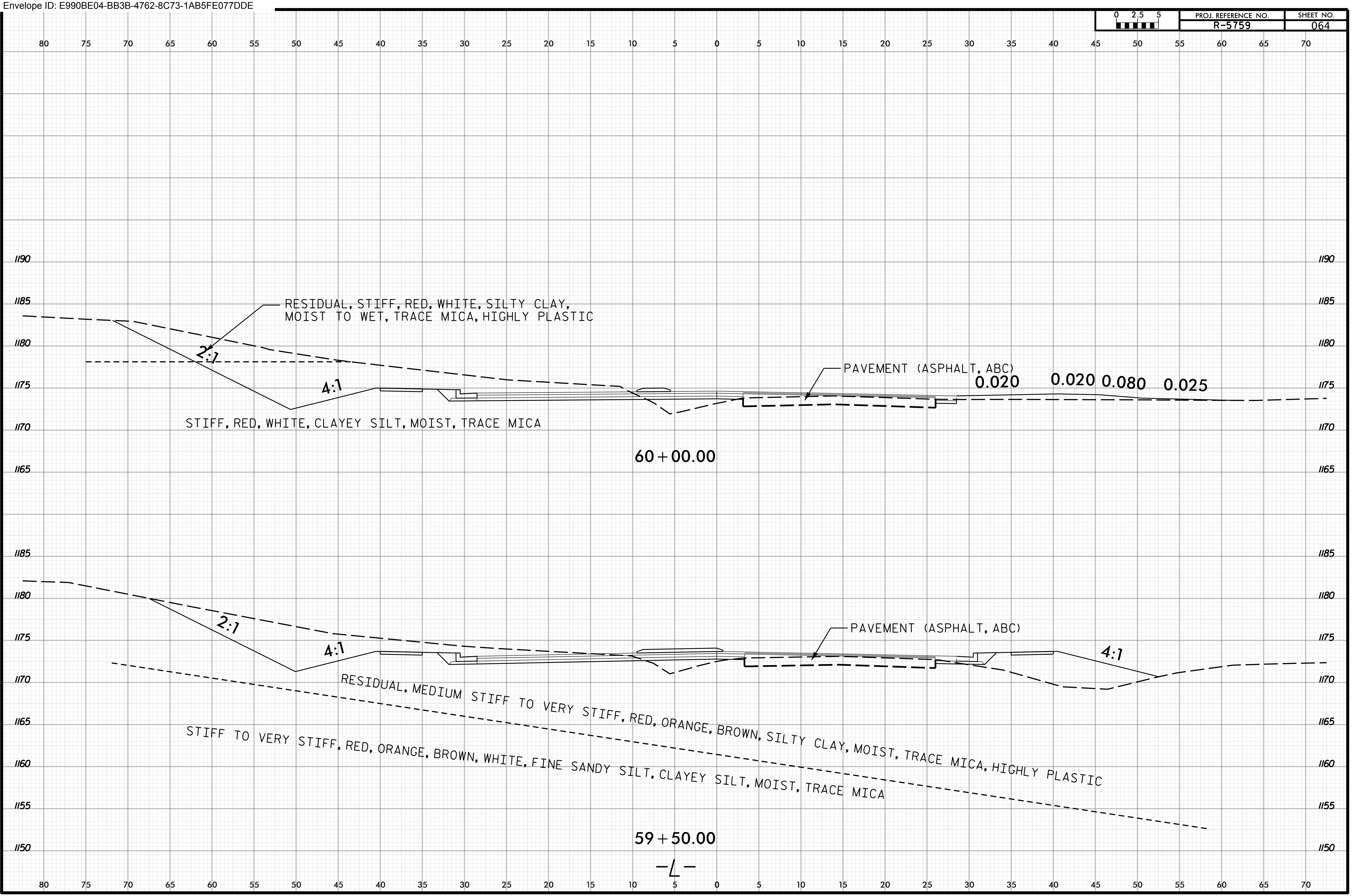

RESIDUAL, STIFF, RED, WHITE, SILTY CLAY, MOIST TO WET, TRACE MICA, HIGHLY PLASTIC

PAVEMENT (ASPHALT, ABC)

STIFF, RED, WHITE, CLAYEY SILT, MOIST, TRACE MICA

60+00.00

PAVEMENT (ASPHALT, ABC)

RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

STIFF TO VERY STIFF, RED, ORANGE, BROWN, WHITE, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA

59+50.00

-L-

28-AUG-2024 08:57
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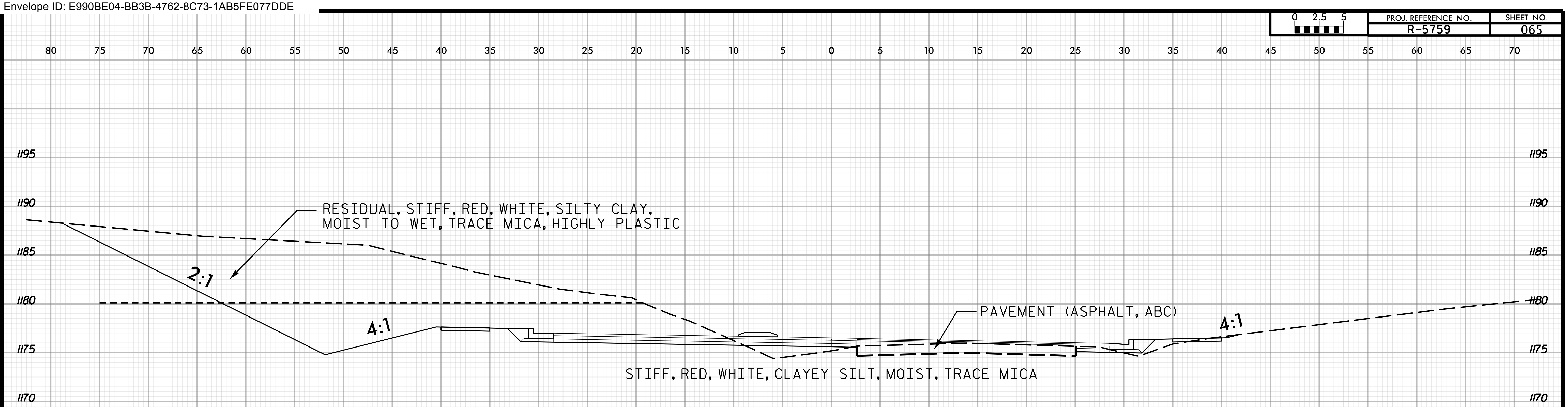
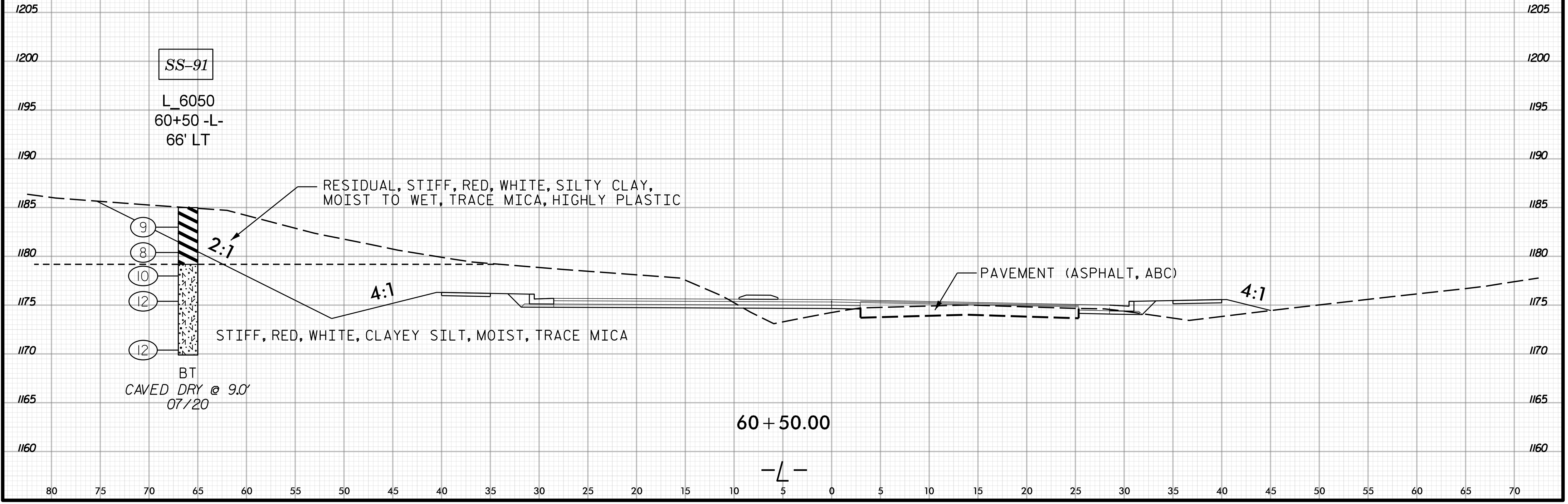
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	065



61+00.00



60+50.00

-L-

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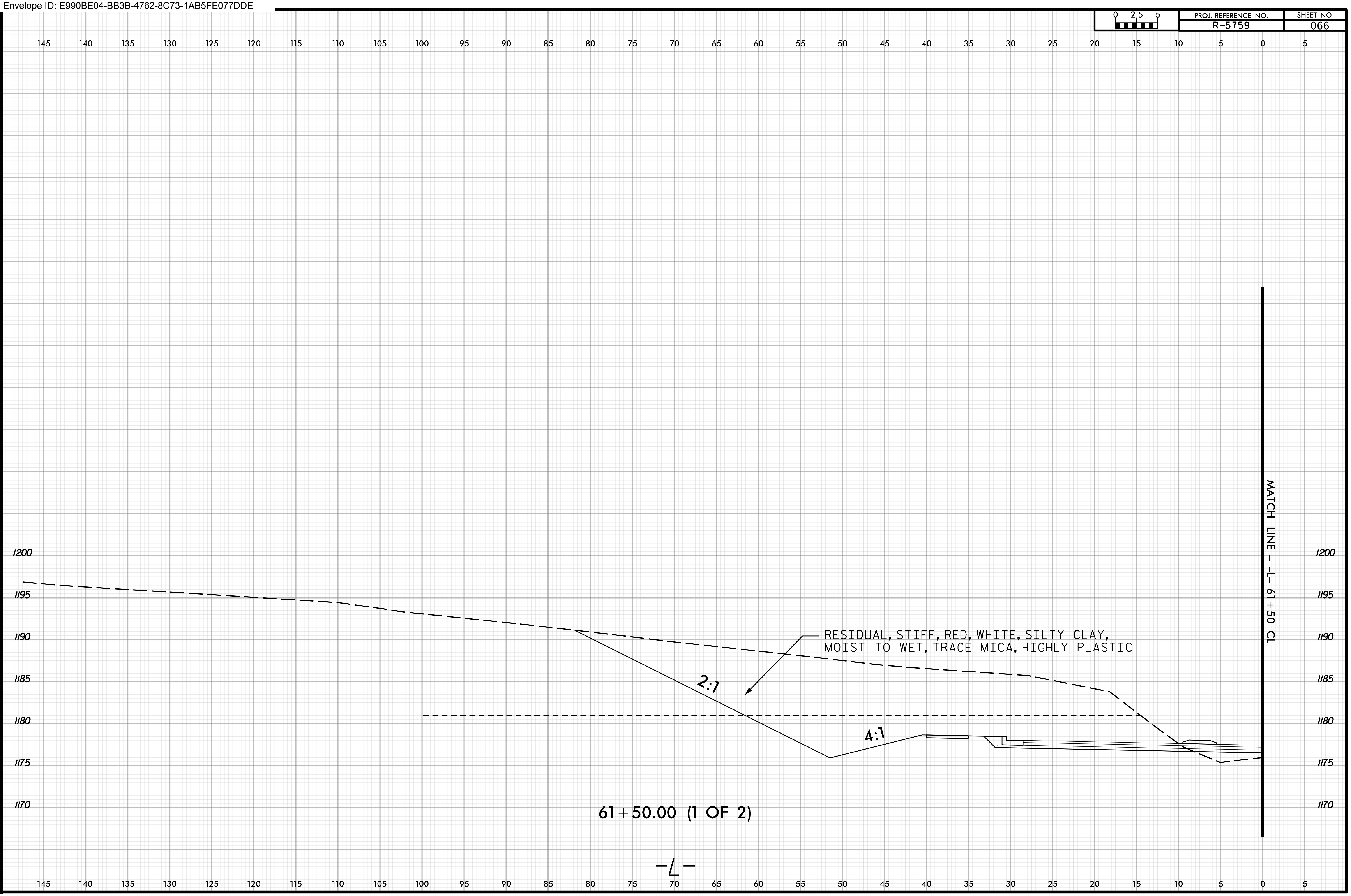
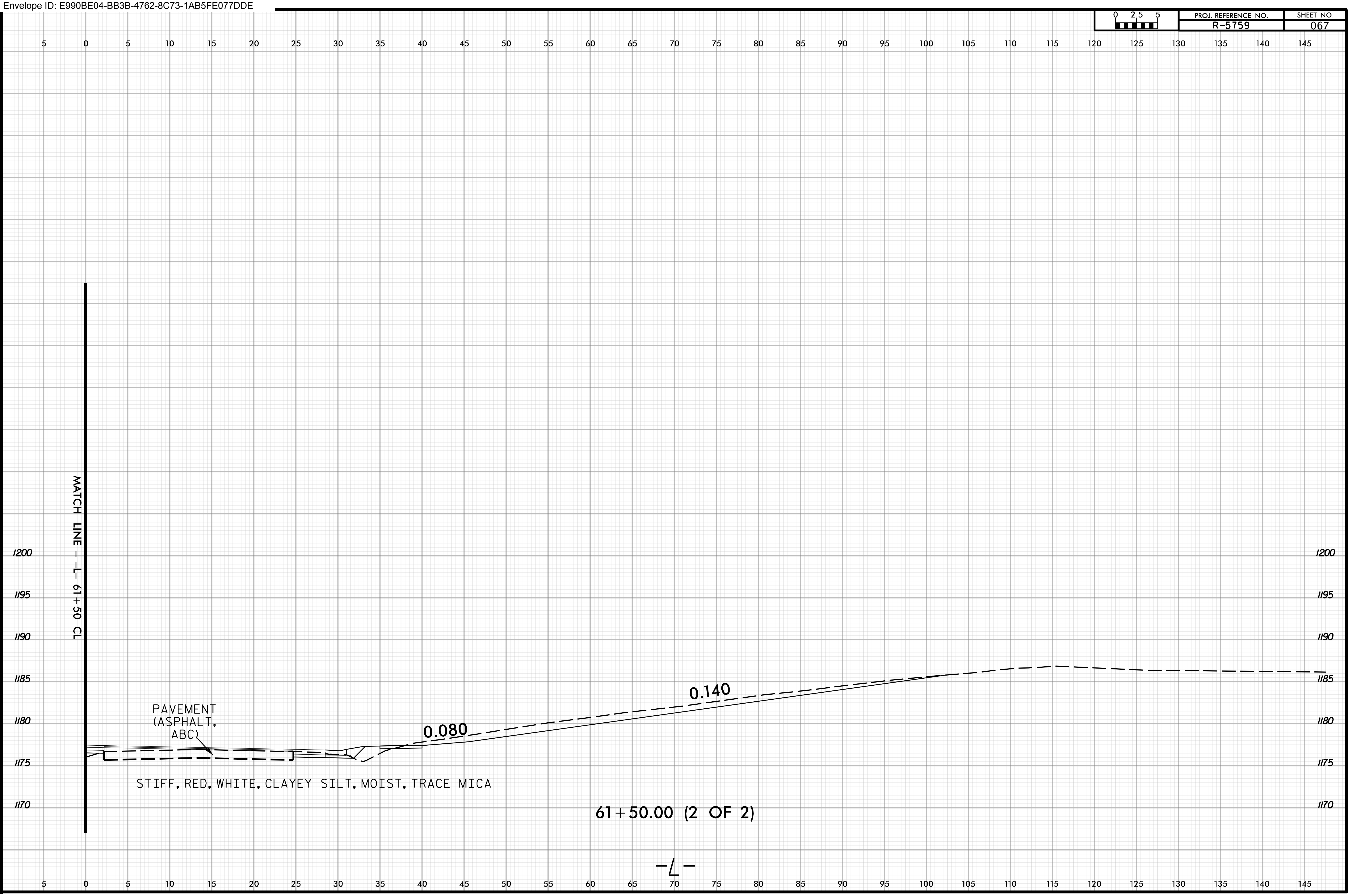


61+50.00 (1 OF 2)

-L-



61+50.00 (2 OF 2)

-L-

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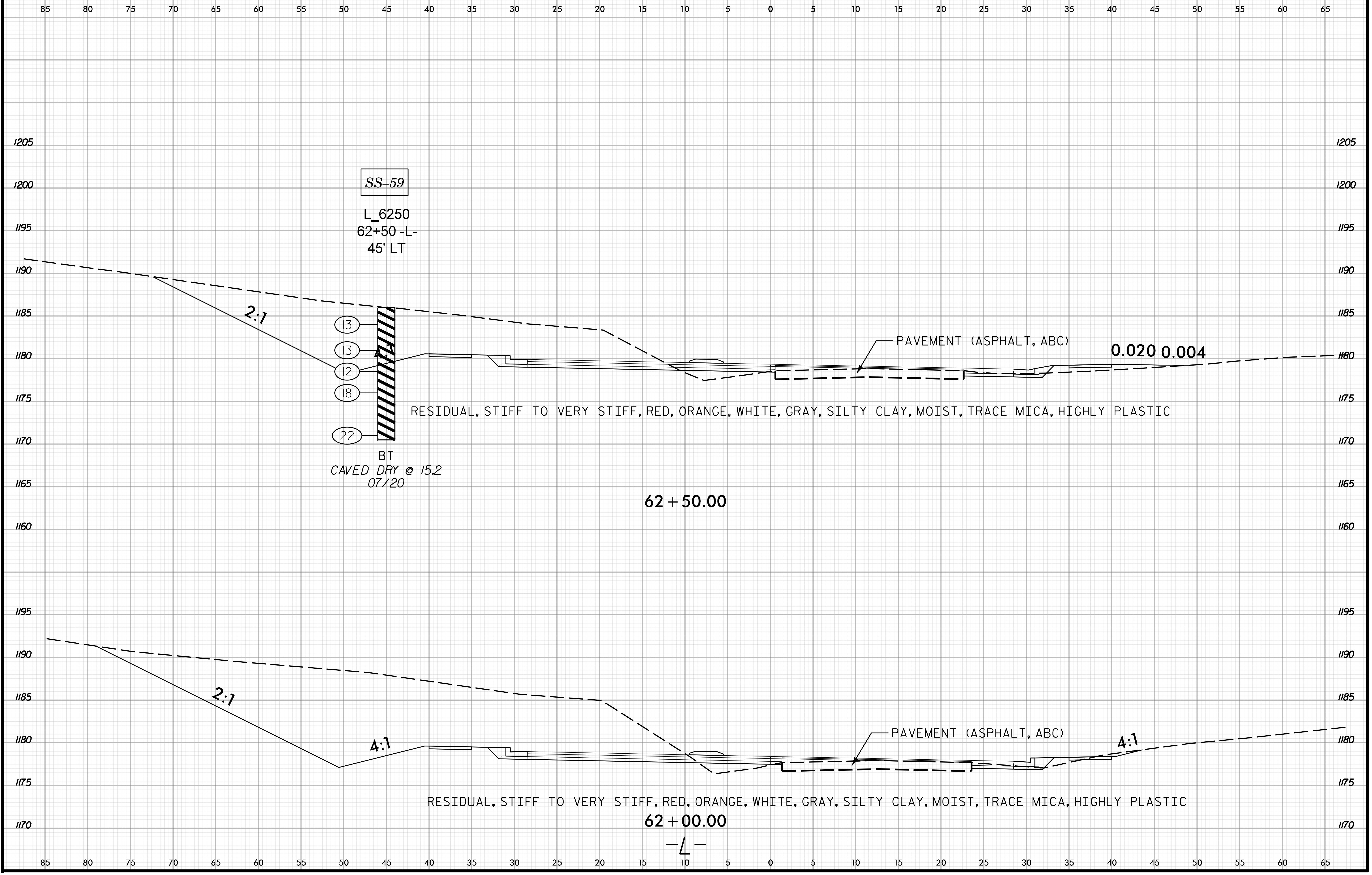
mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	068



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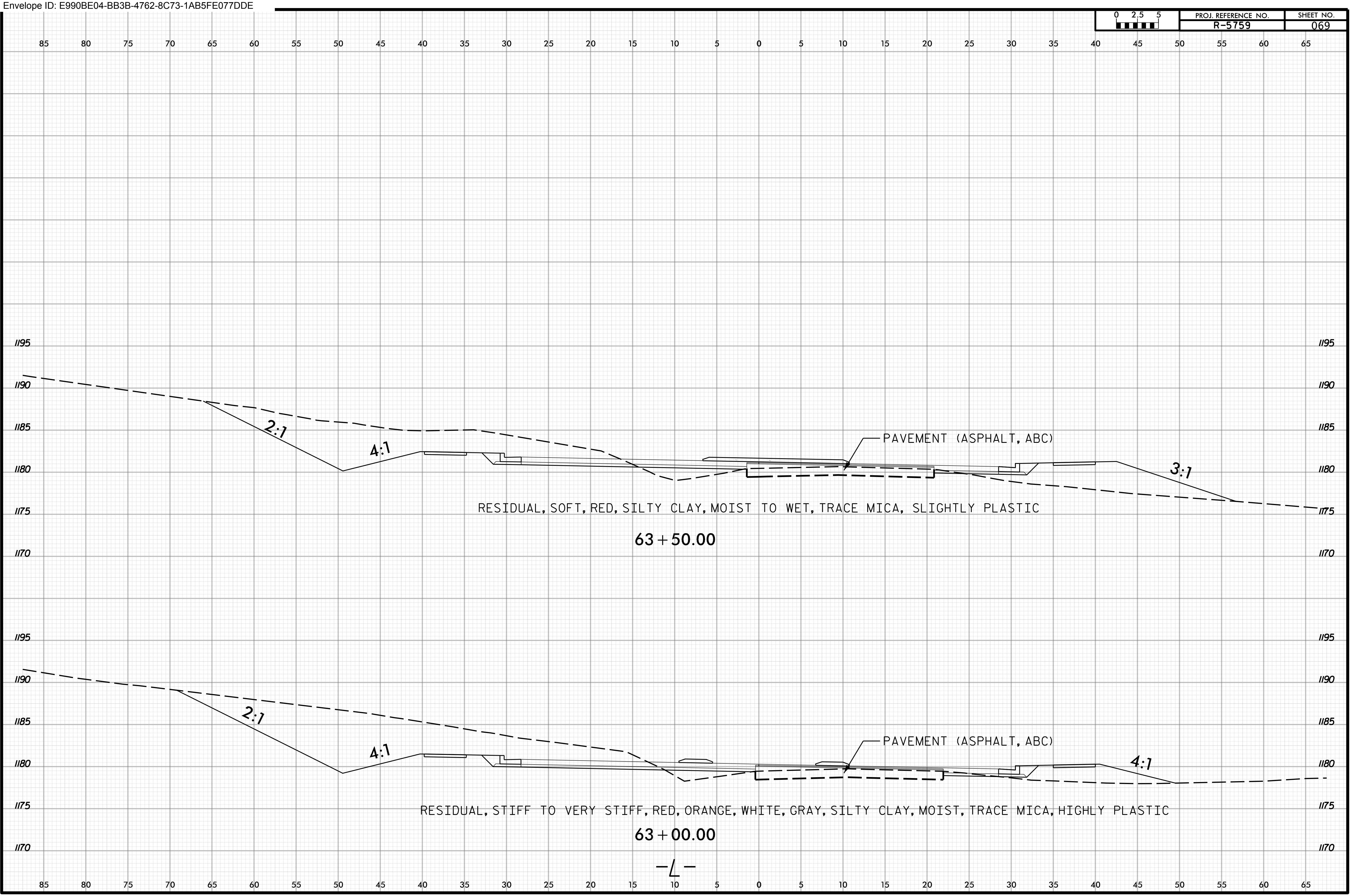


RESIDUAL, SOFT, RED, SILTY CLAY, MOIST TO WET, TRACE MICA, SLIGHTLY PLASTIC

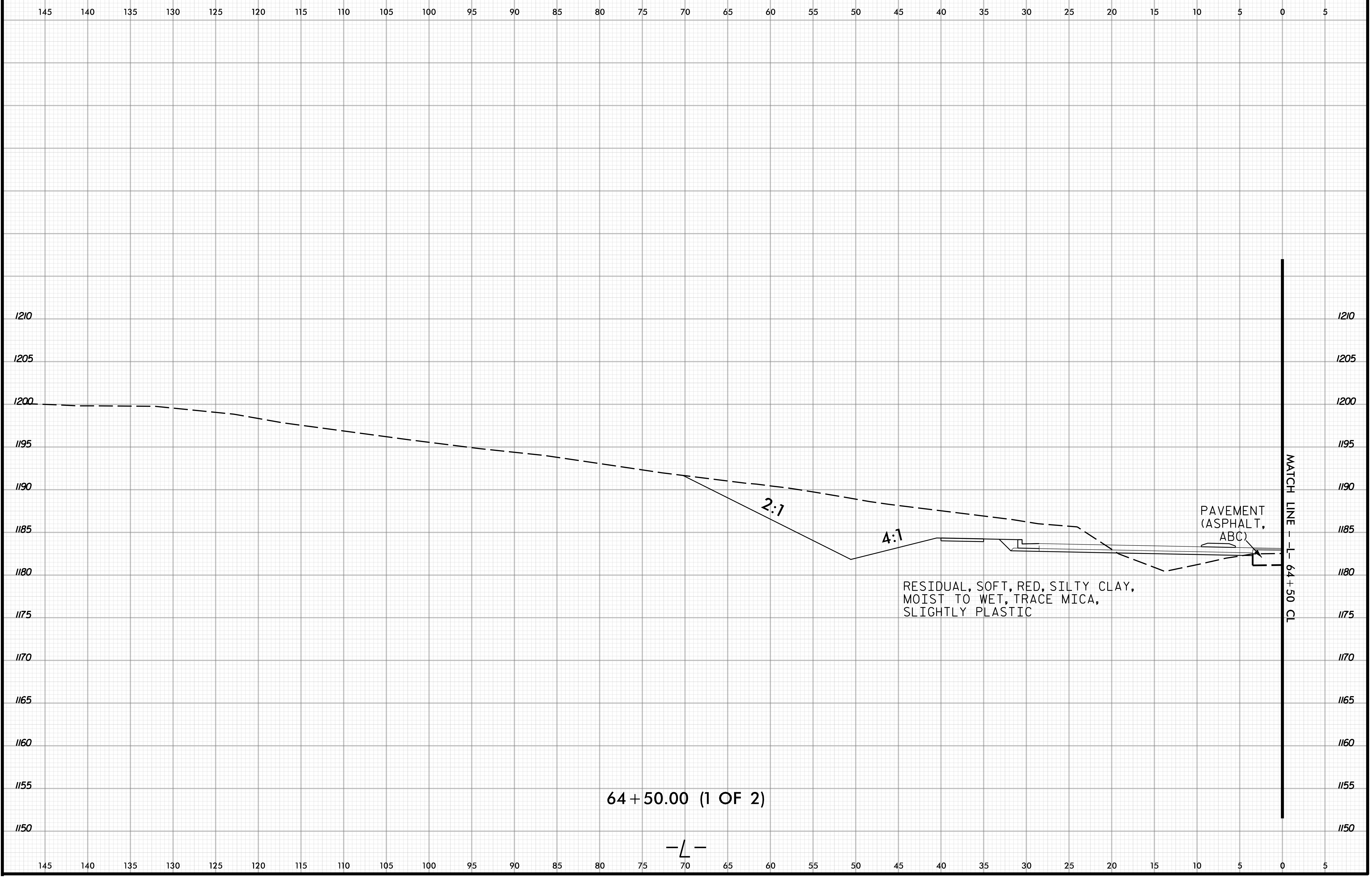
63+50.00

RESIDUAL, STIFF TO VERY STIFF, RED, ORANGE, WHITE, GRAY, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

63+00.00

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	070

6/23/16



64+50.00 (1 OF 2)

28-AUG-2024 08:57
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mlhartman AT W0070050699

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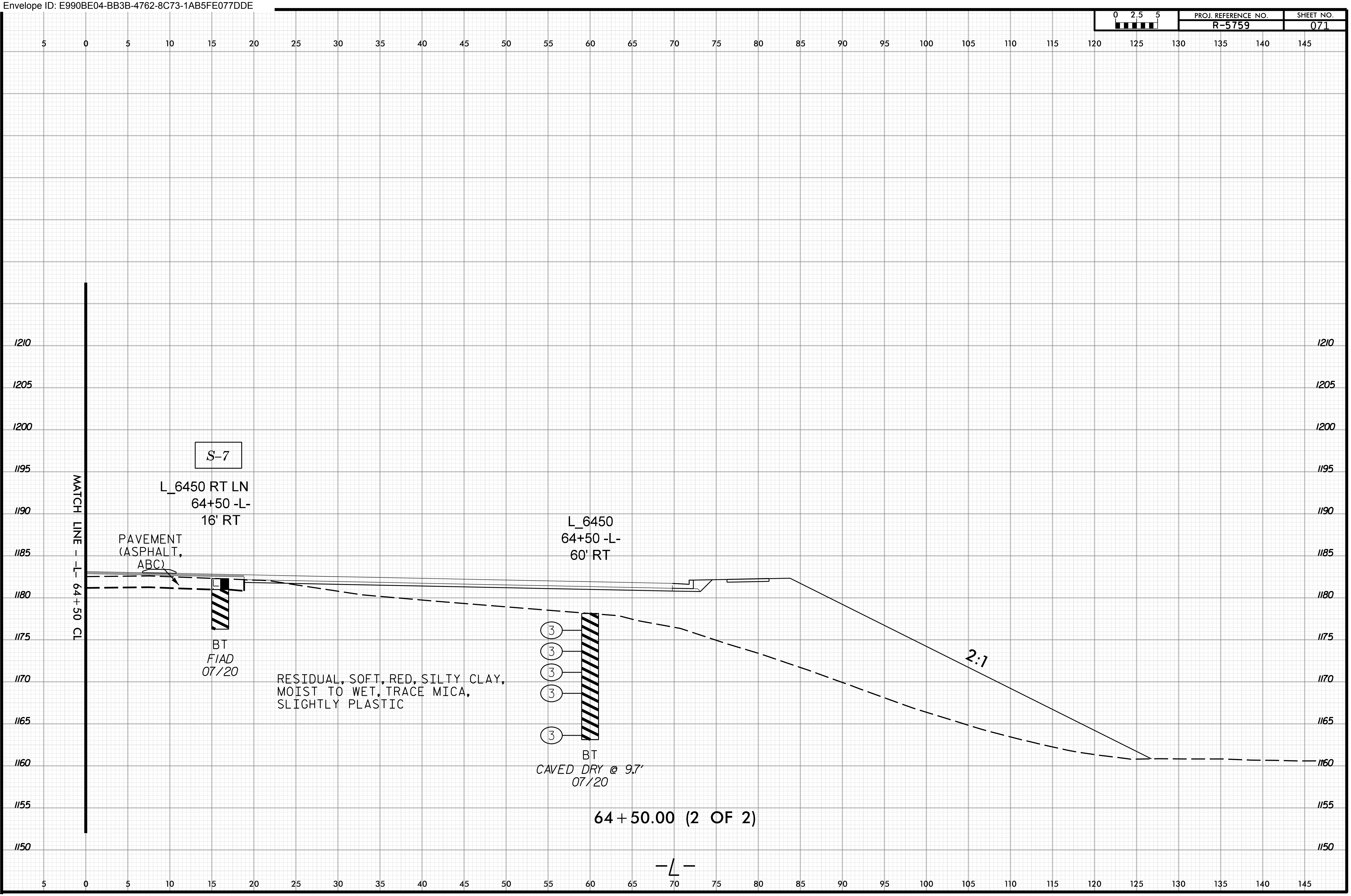

64+50.00 (2 OF 2)

-L-

6/23/16

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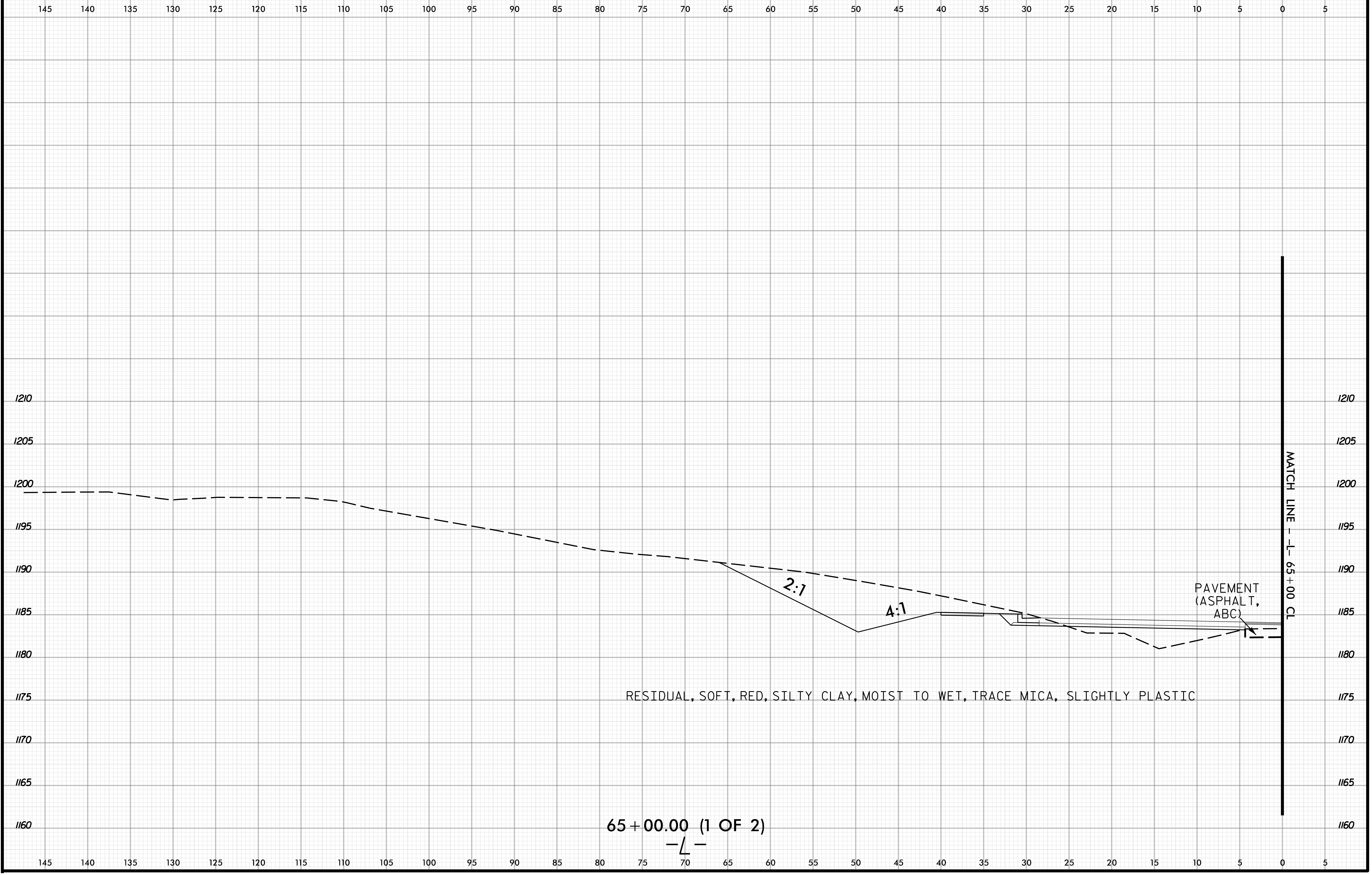

65+00.00 (1 OF 2)
-L-

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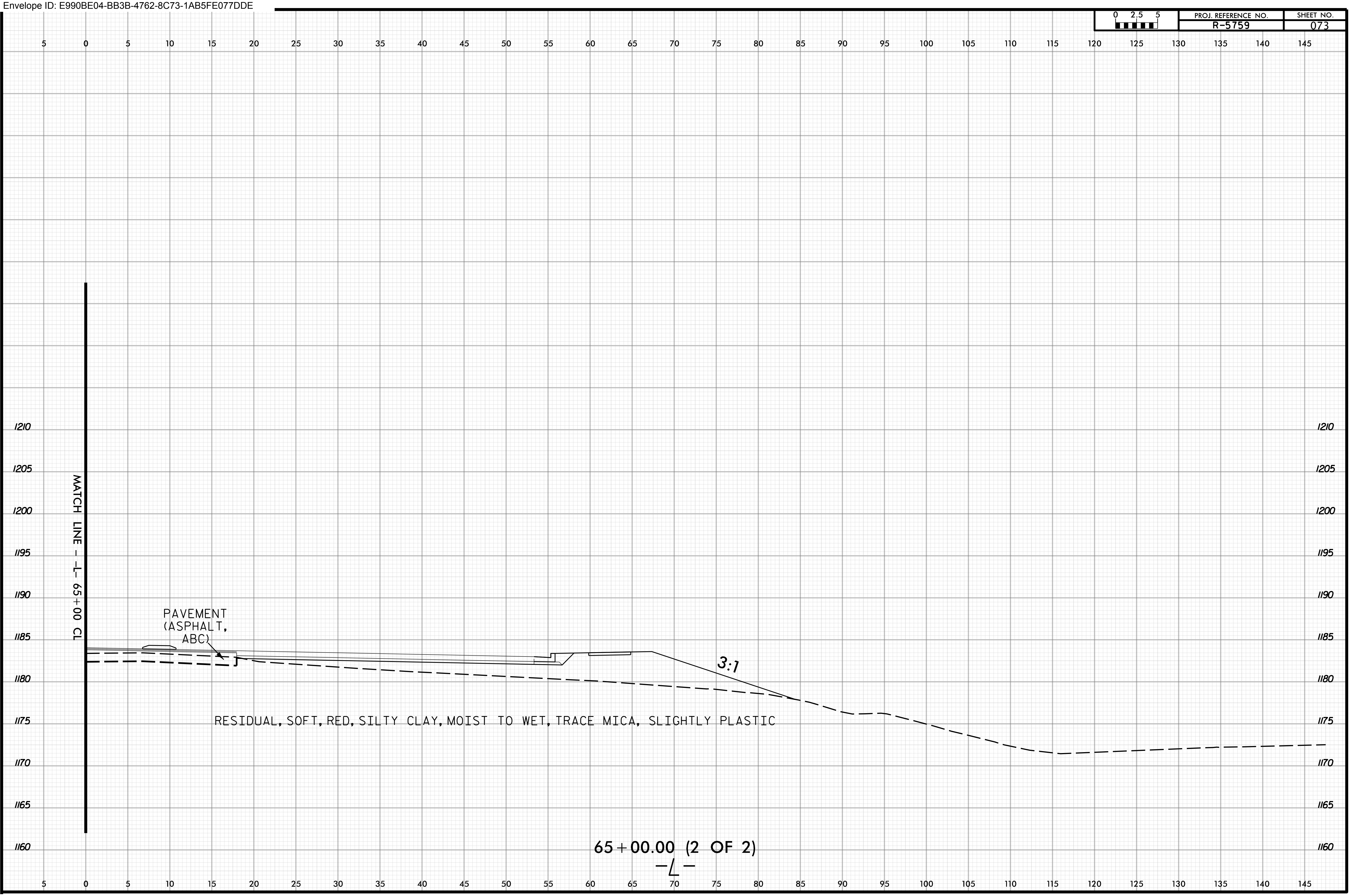

65+00.00 (2 OF 2)
-L-

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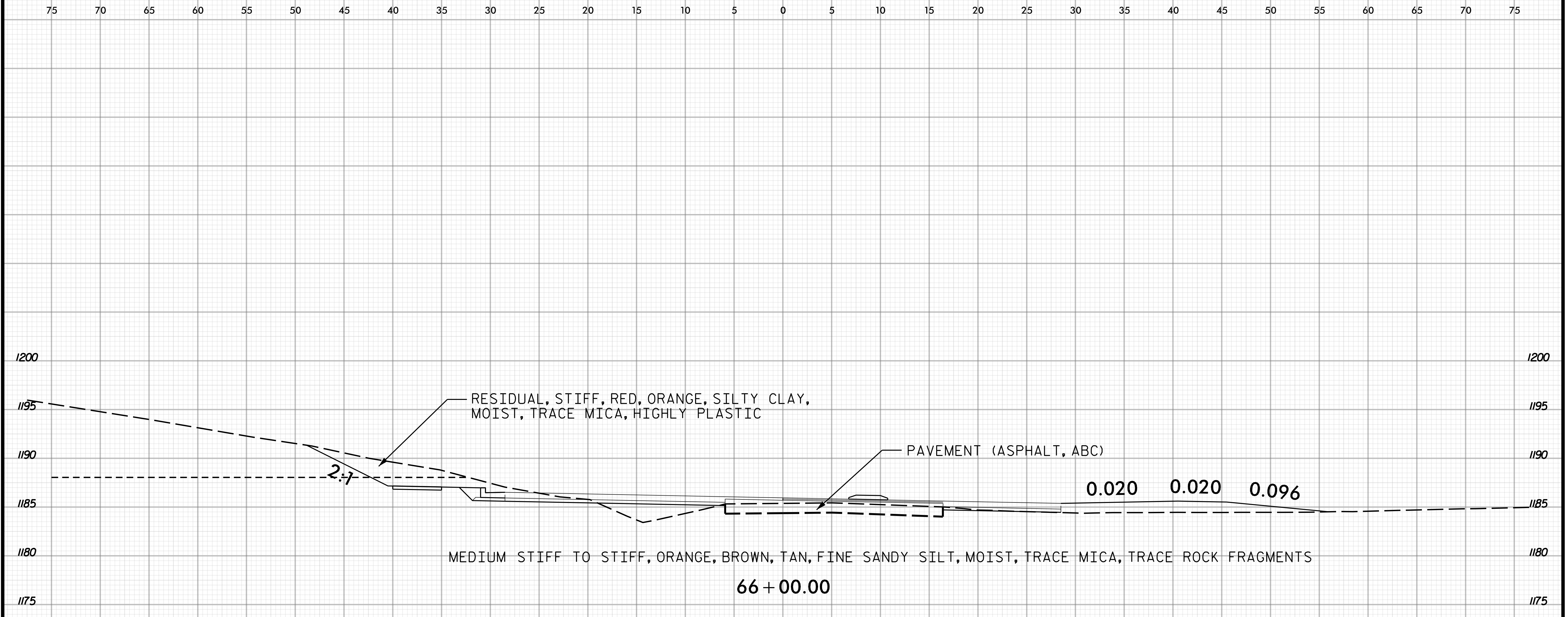
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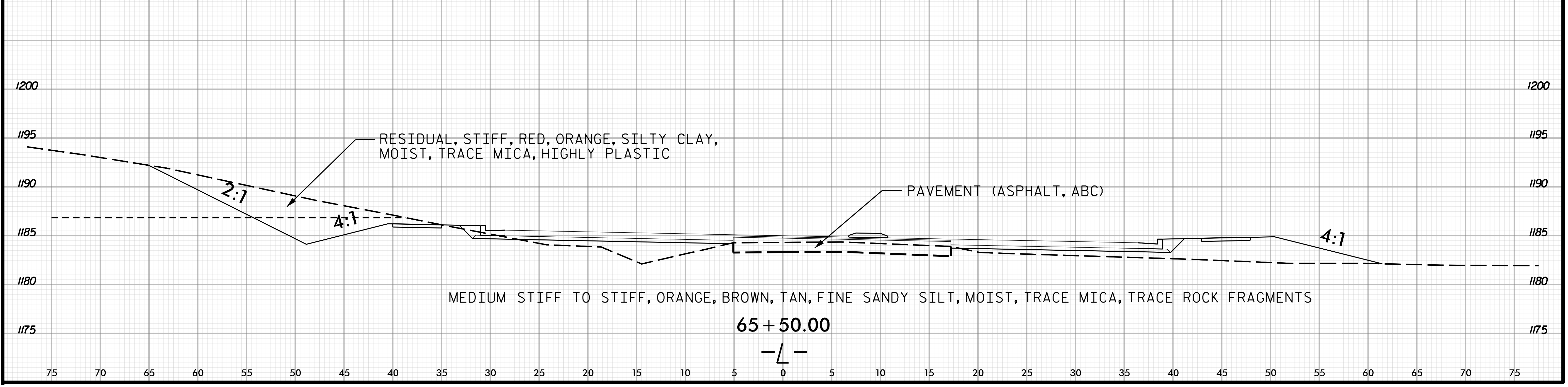
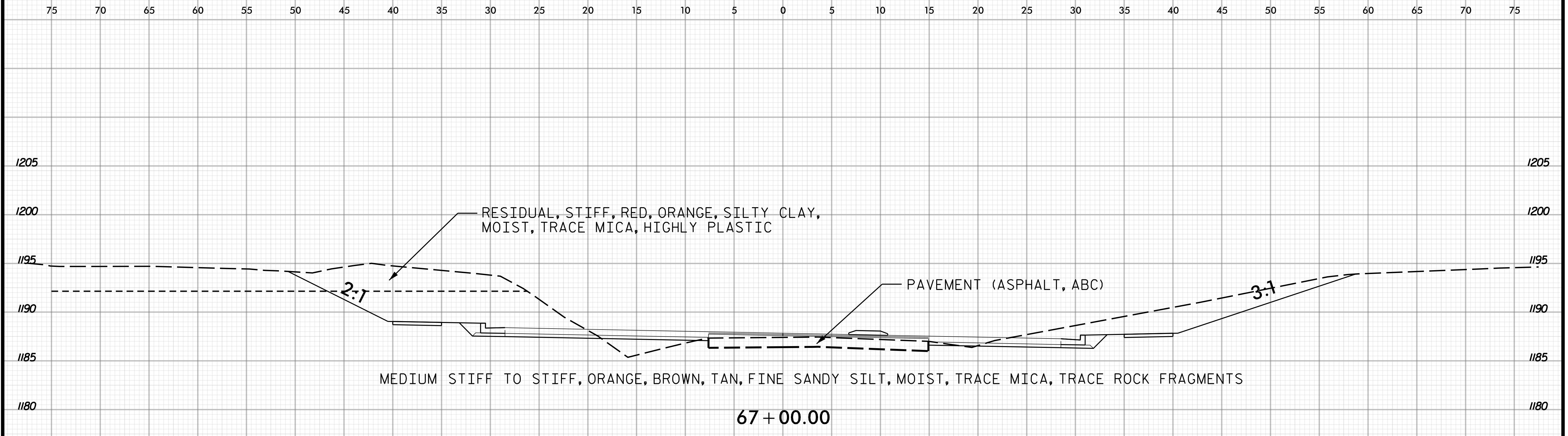
1200
1195
1190
1185
1180
1175
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
0.020
0.020
0.096
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS

66+00.00


1200
1195
1190
1185
1180
1175
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
4:1
PAVEMENT (ASPHALT, ABC)
4:1
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

65+50.00

-L-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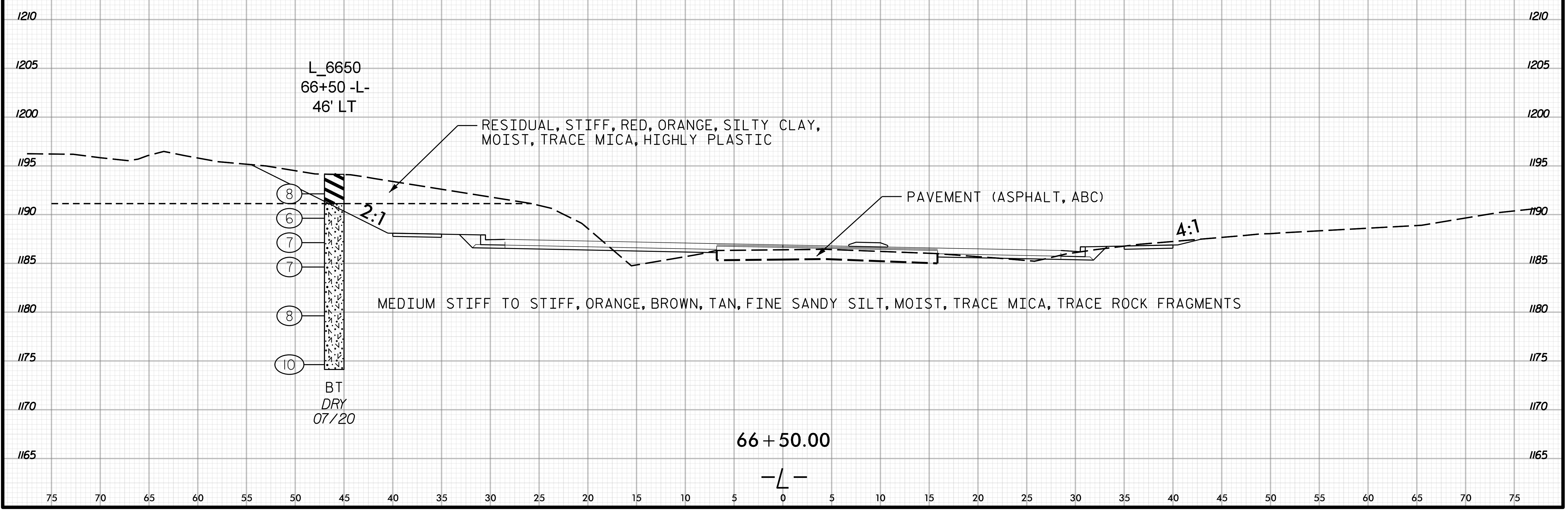
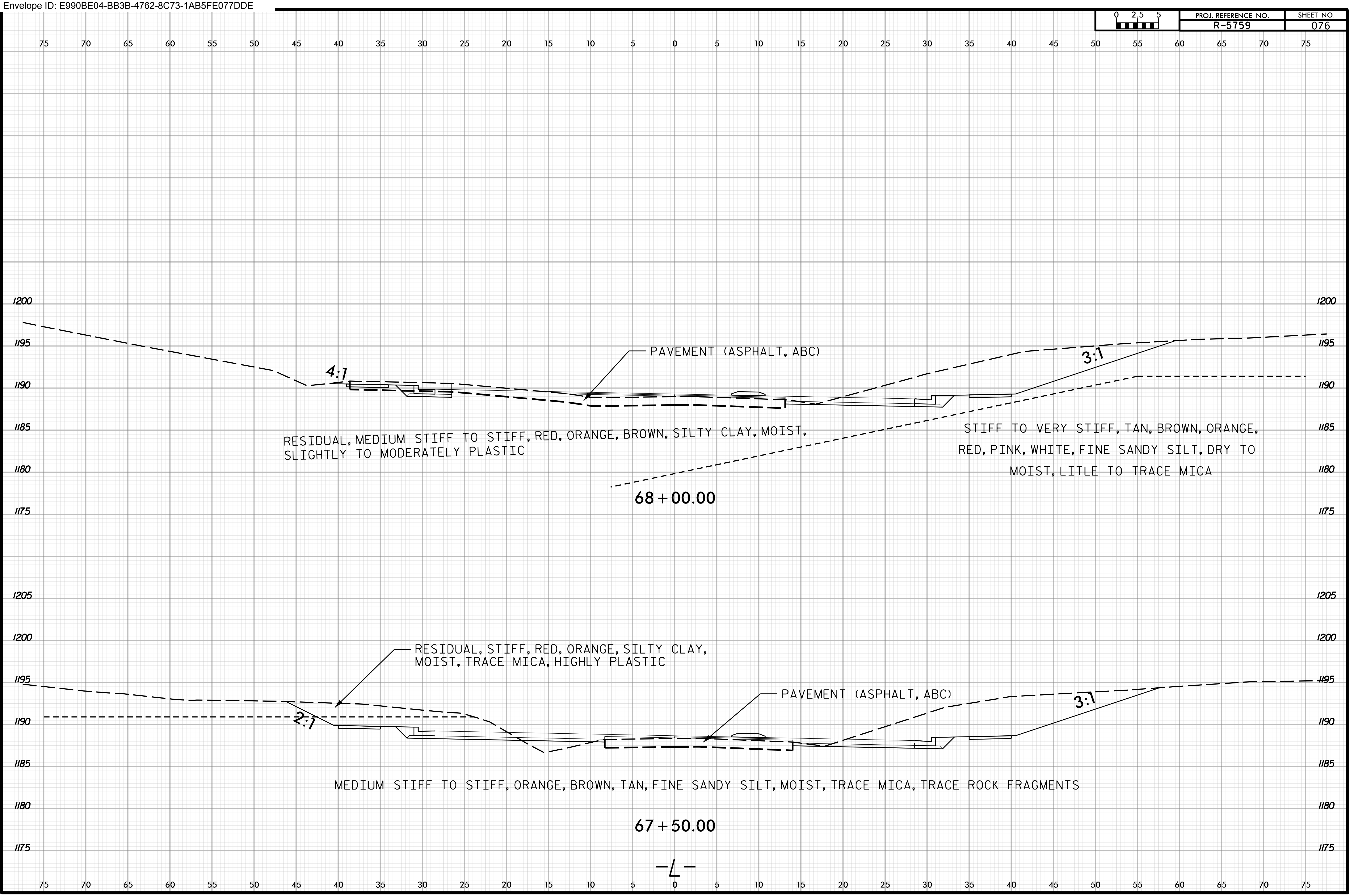
1205
1200
1195
1190
1185
1180
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
3:1
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS

67+00.00



66+50.00

-L-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1200
1195
1190
1185
1180
1175
4:1
3:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF TO STIFF, RED, ORANGE, BROWN, SILTY CLAY, MOIST, SLIGHTLY TO MODERATELY PLASTIC
STIFF TO VERY STIFF, TAN, BROWN, ORANGE, RED, PINK, WHITE, FINE SANDY SILT, DRY TO MOIST, LITLE TO TRACE MICA
68+00.00
1205
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
2:1
3:1
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS
67+50.00
-L-

28-AUG-2024 08:57
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mlhartman AT W00700050699

PROJ. REFERENCE NO.	SHEET NO.
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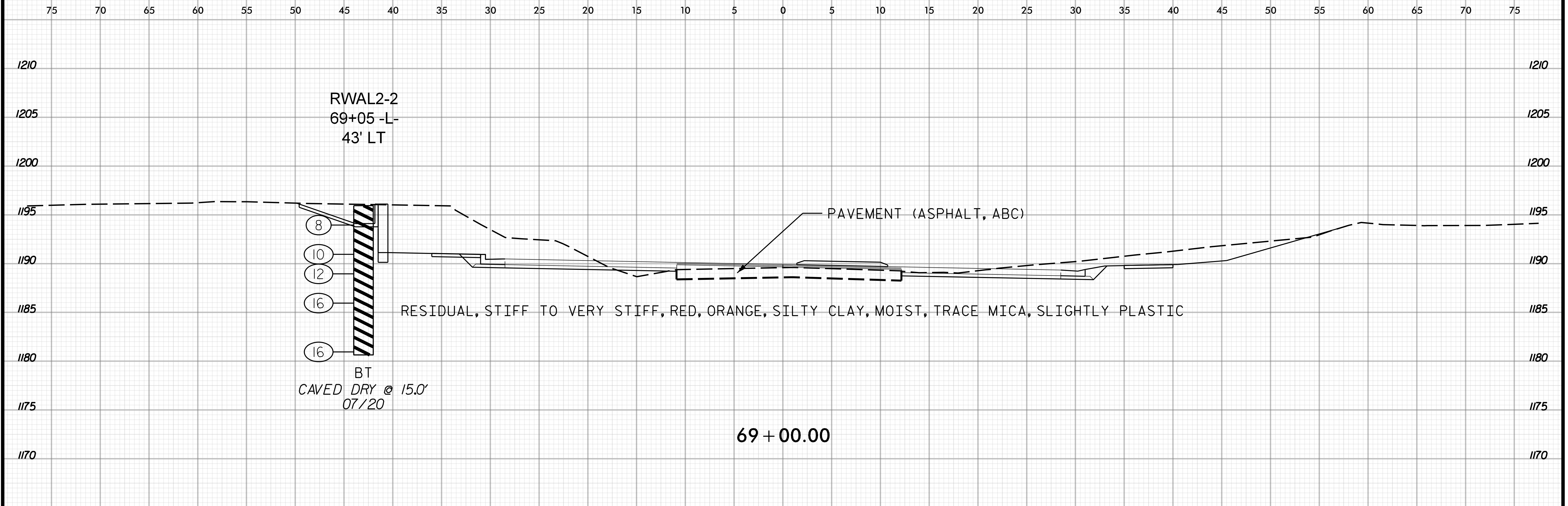
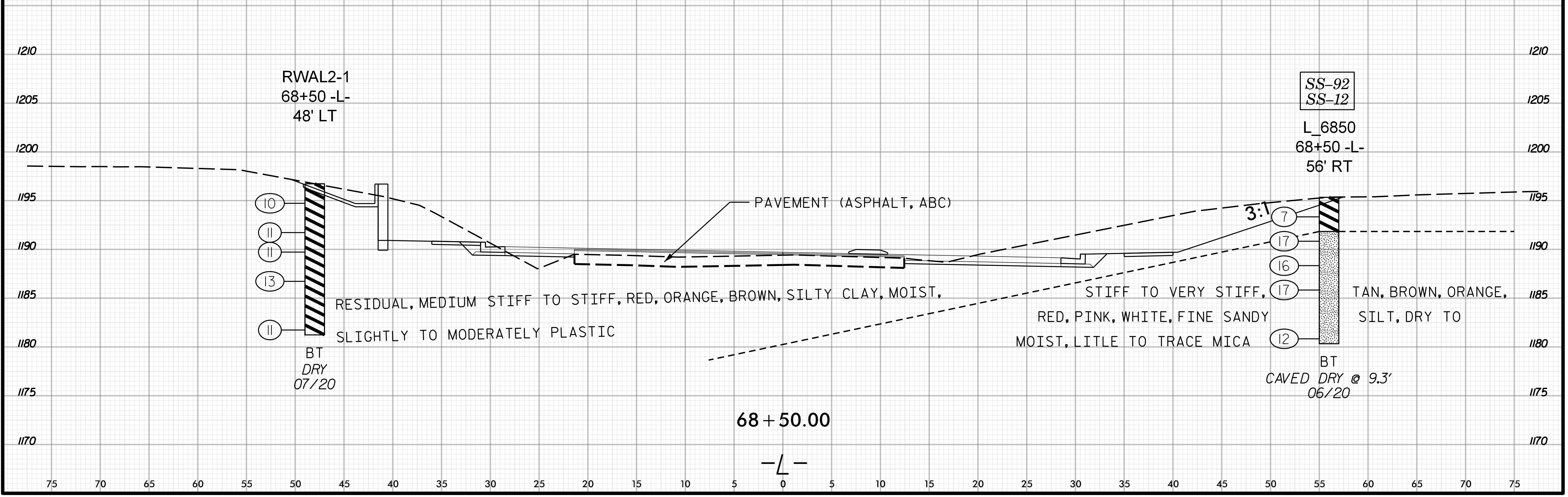


69 + 00.00



68 + 50.00

6/23/16
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mlhartman AT W00700050699

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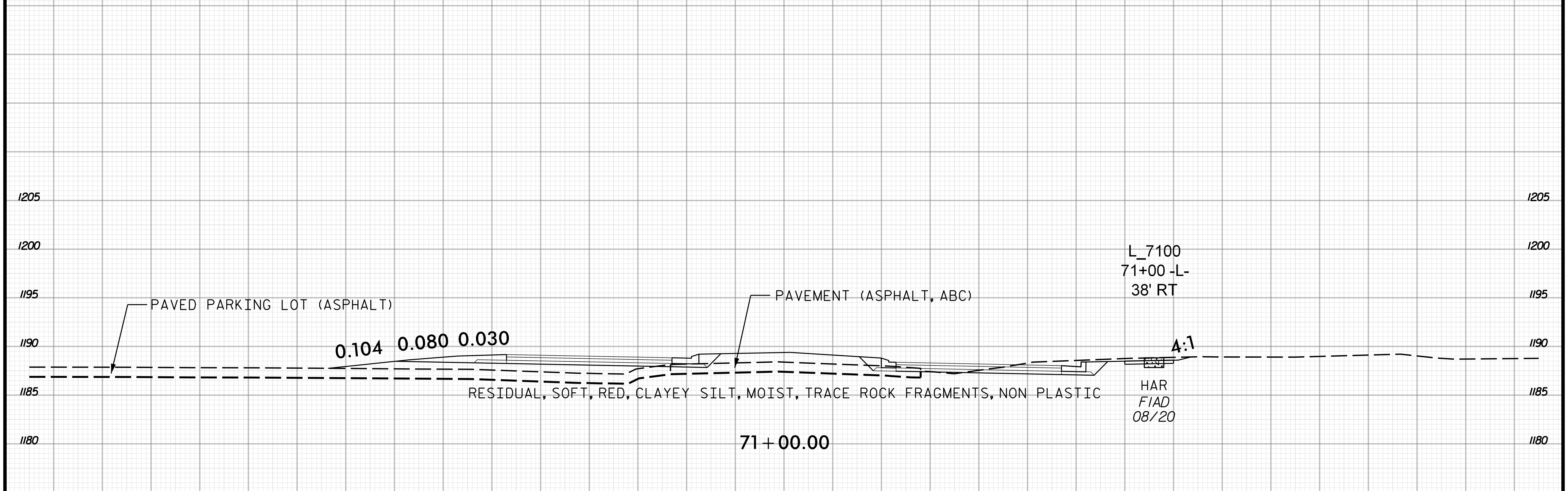
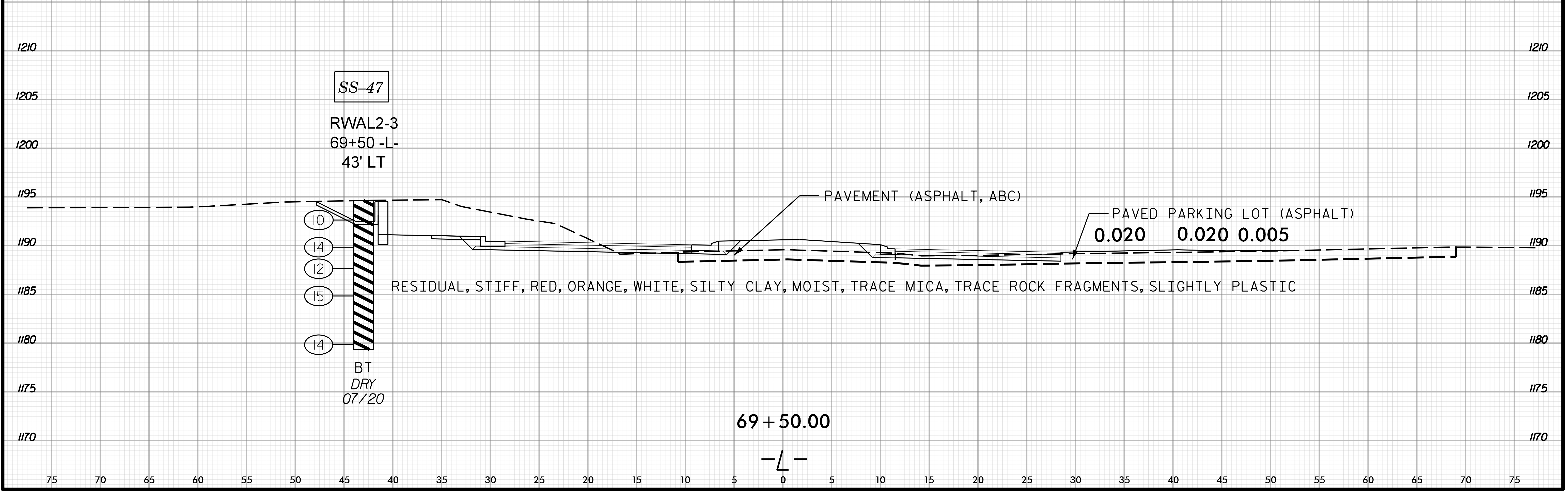


71+00.00



69+50.00

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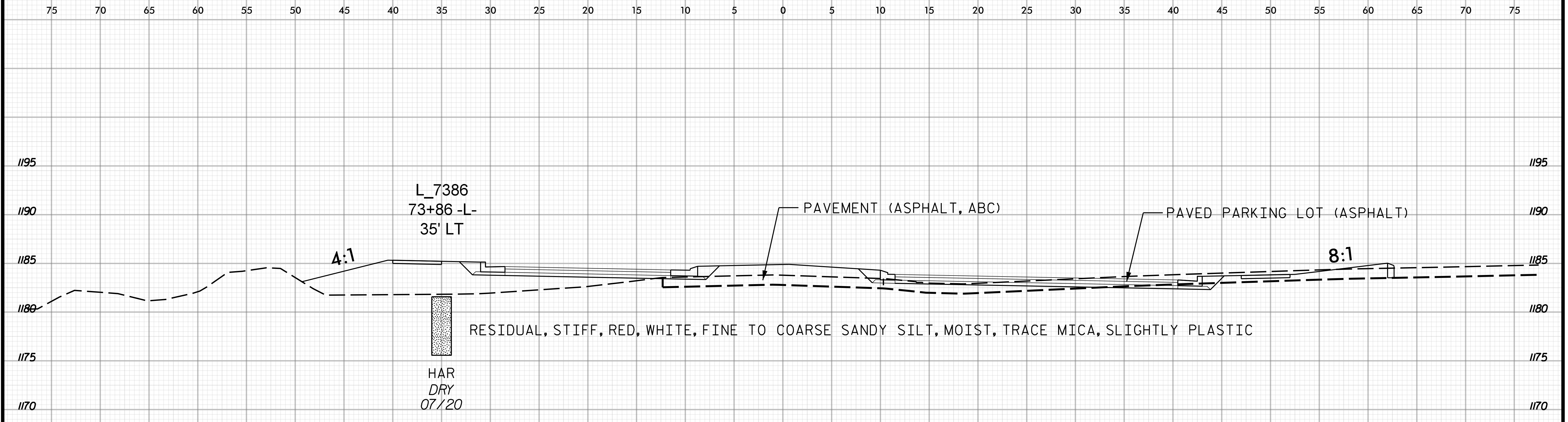
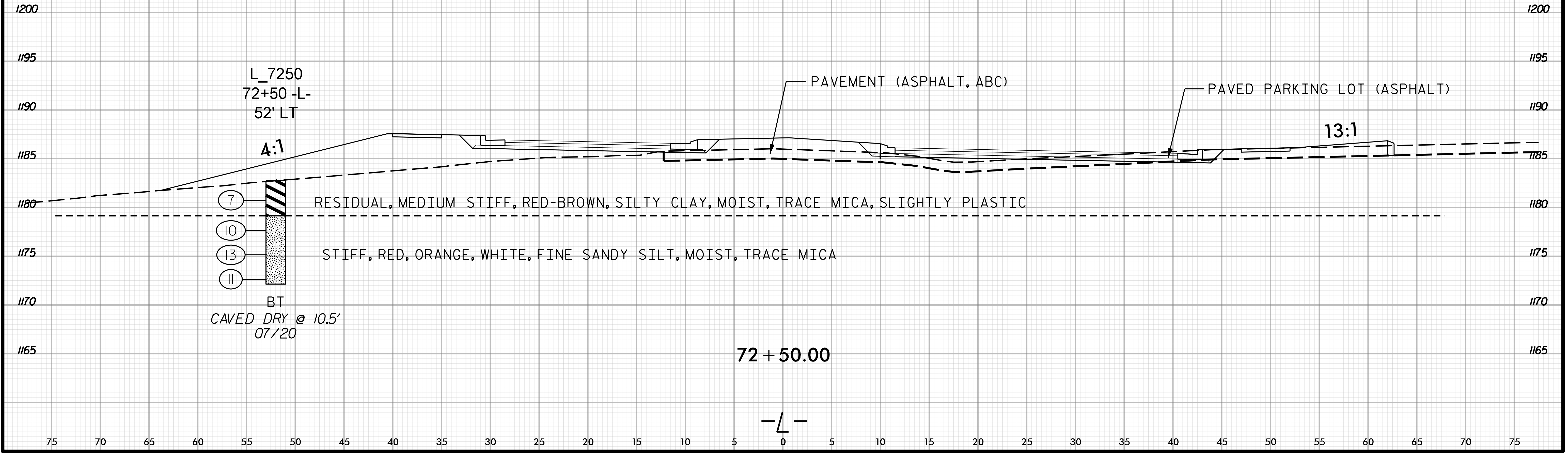
6/23/16



74+00.00



72+50.00

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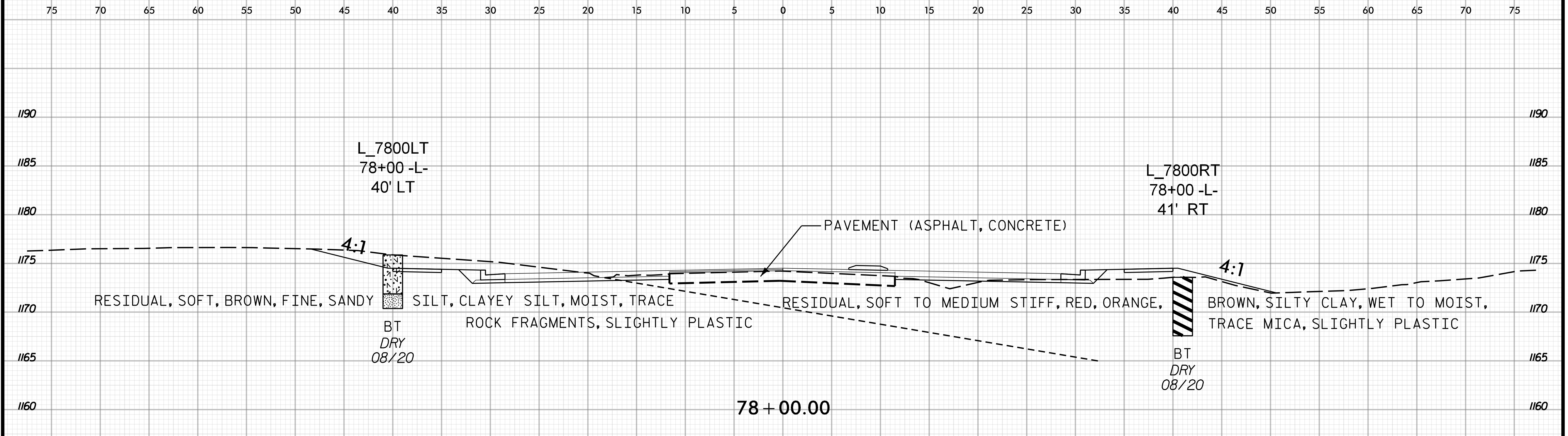
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	080

6/23/16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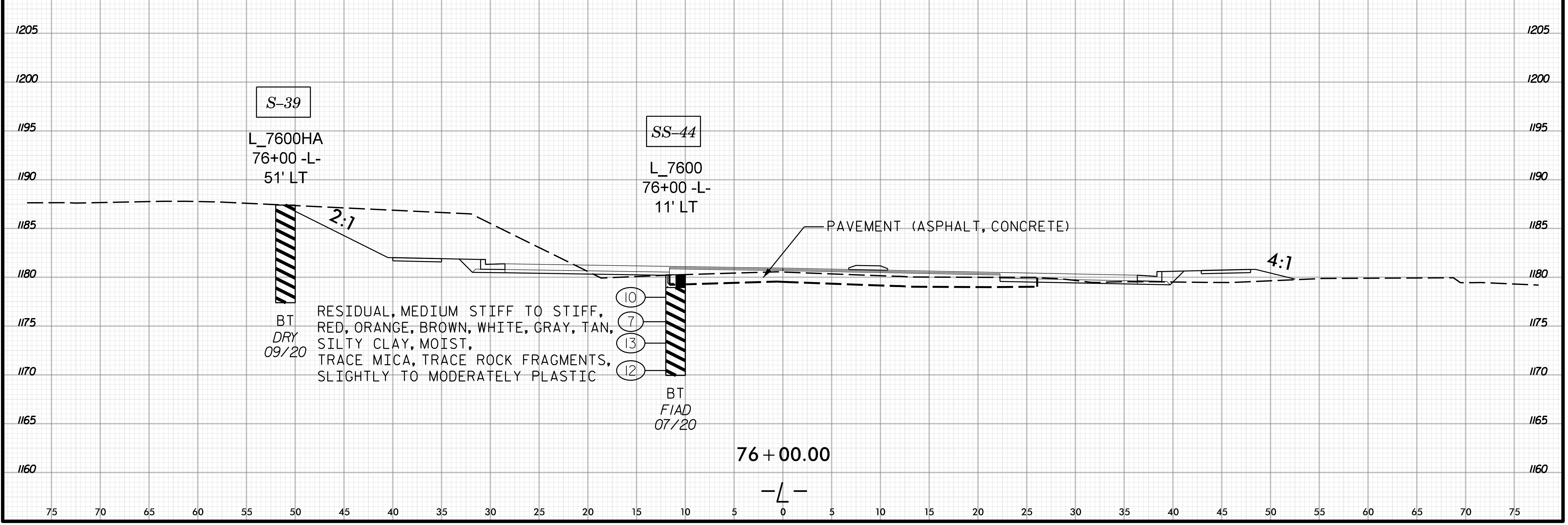
1190
1185
1180
1175
1170
1165
1160
L_7800LT
78+00 -L-
40' LT
4:1
L_7800RT
78+00 -L-
41' RT
PAVEMENT (ASPHALT, CONCRETE)
4:1
RESIDUAL, SOFT, BROWN, FINE, SANDY SILT, CLAYEY SILT, MOIST, TRACE ROCK FRAGMENTS, SLIGHTLY PLASTIC
RESIDUAL, SOFT TO MEDIUM STIFF, RED, ORANGE, BROWN, SILTY CLAY, WET TO MOIST, TRACE MICA, SLIGHTLY PLASTIC
BT
DRY
08/20
BT
DRY
08/20
78 + 00.00



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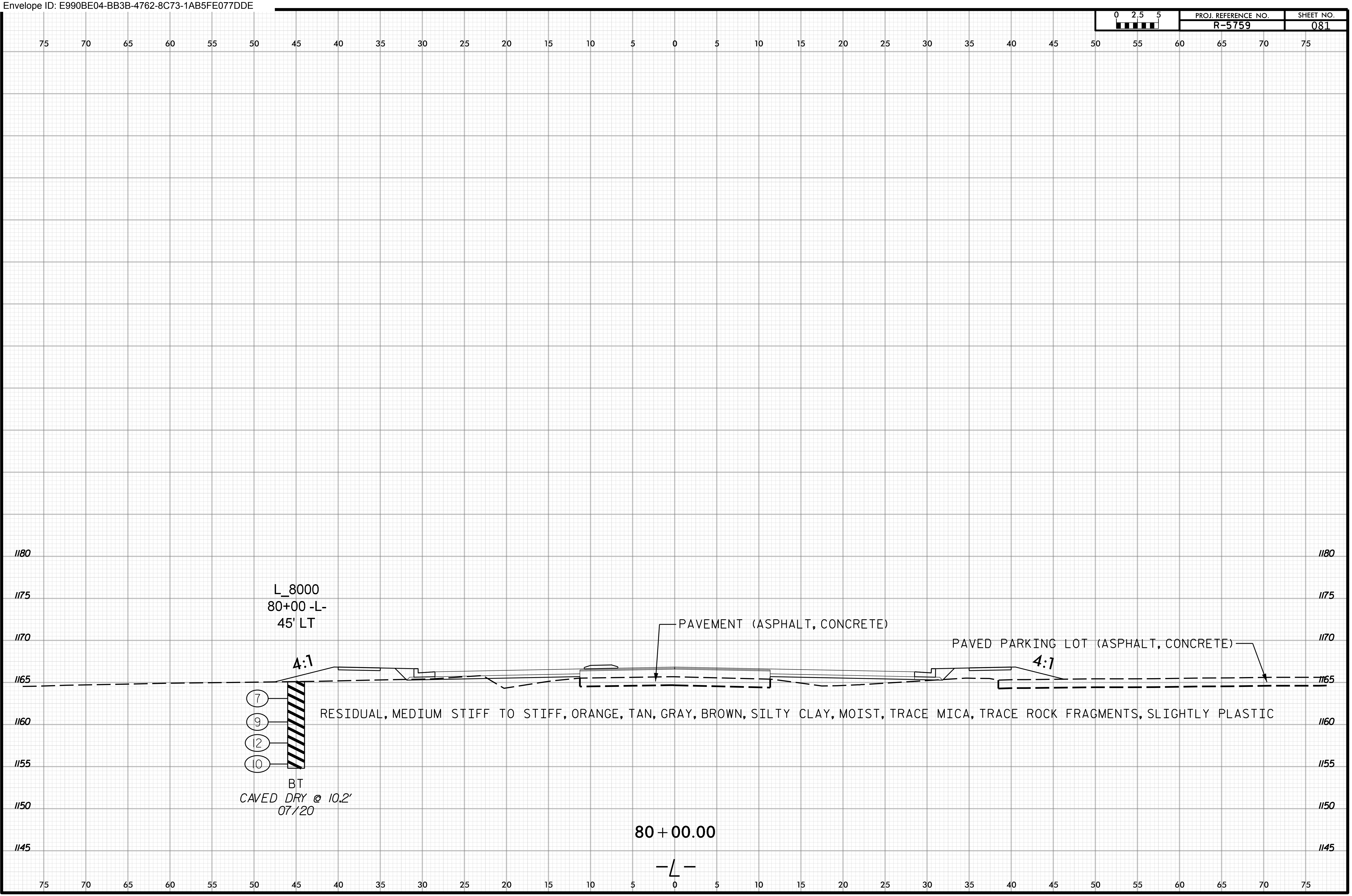
mihertmen AT W007005069

PROJ. REFERENCE NO.	SHEET NO.
R-5759	081



6/23/16

28-AUG-2024 08:57
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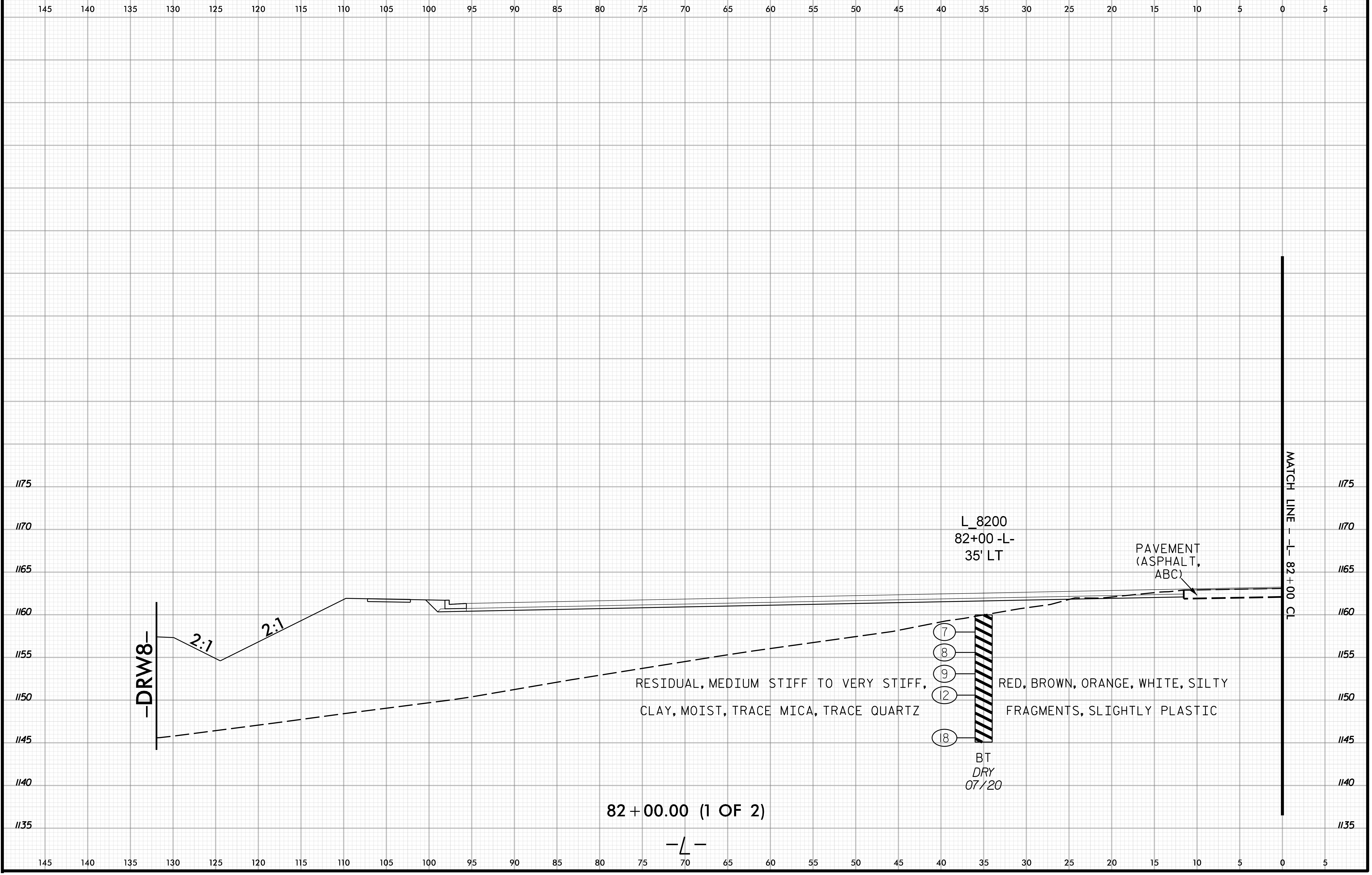
mlhartman AT W0070050699

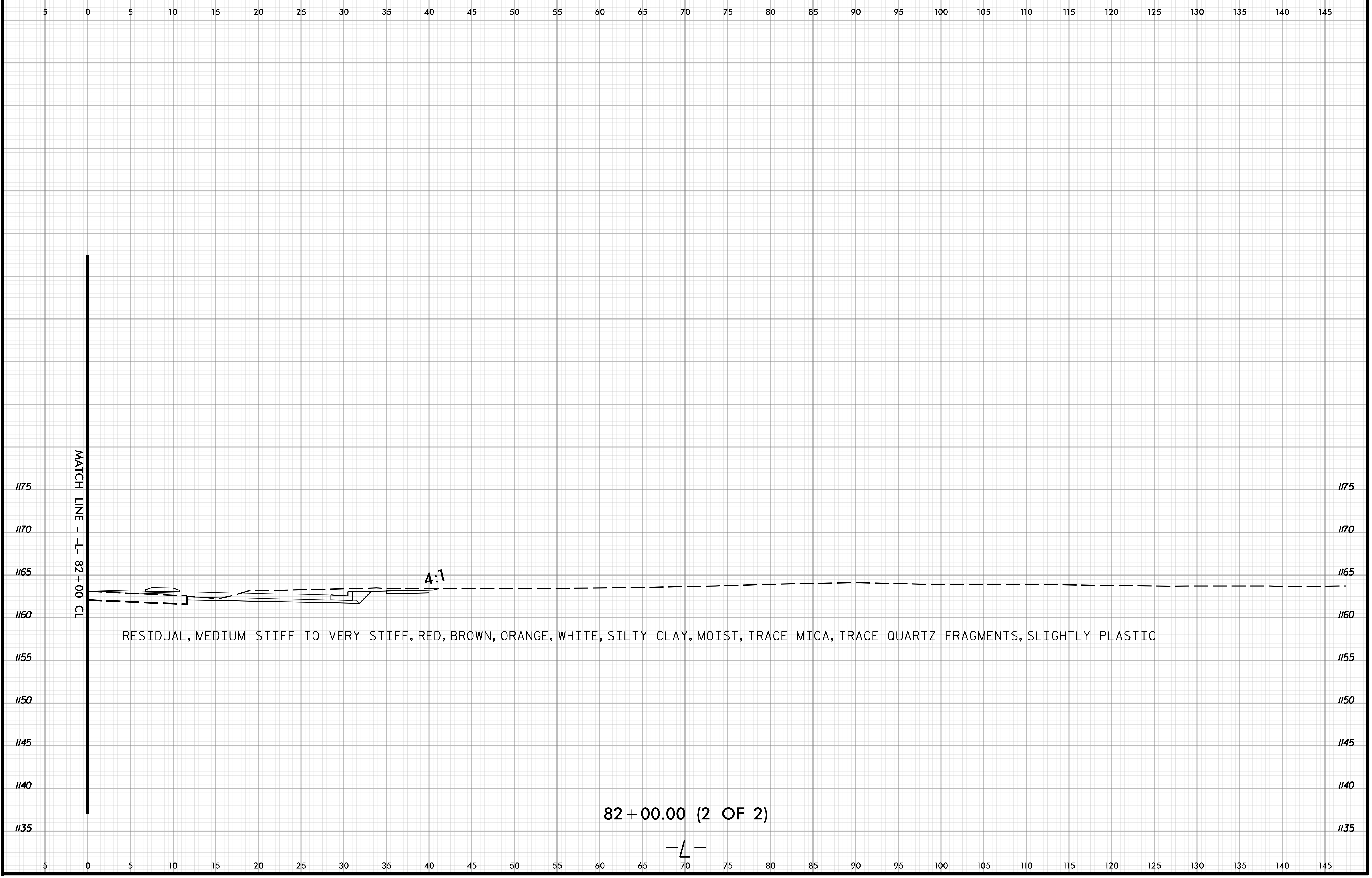
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	082



82+00.00 (1 OF 2)

-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	083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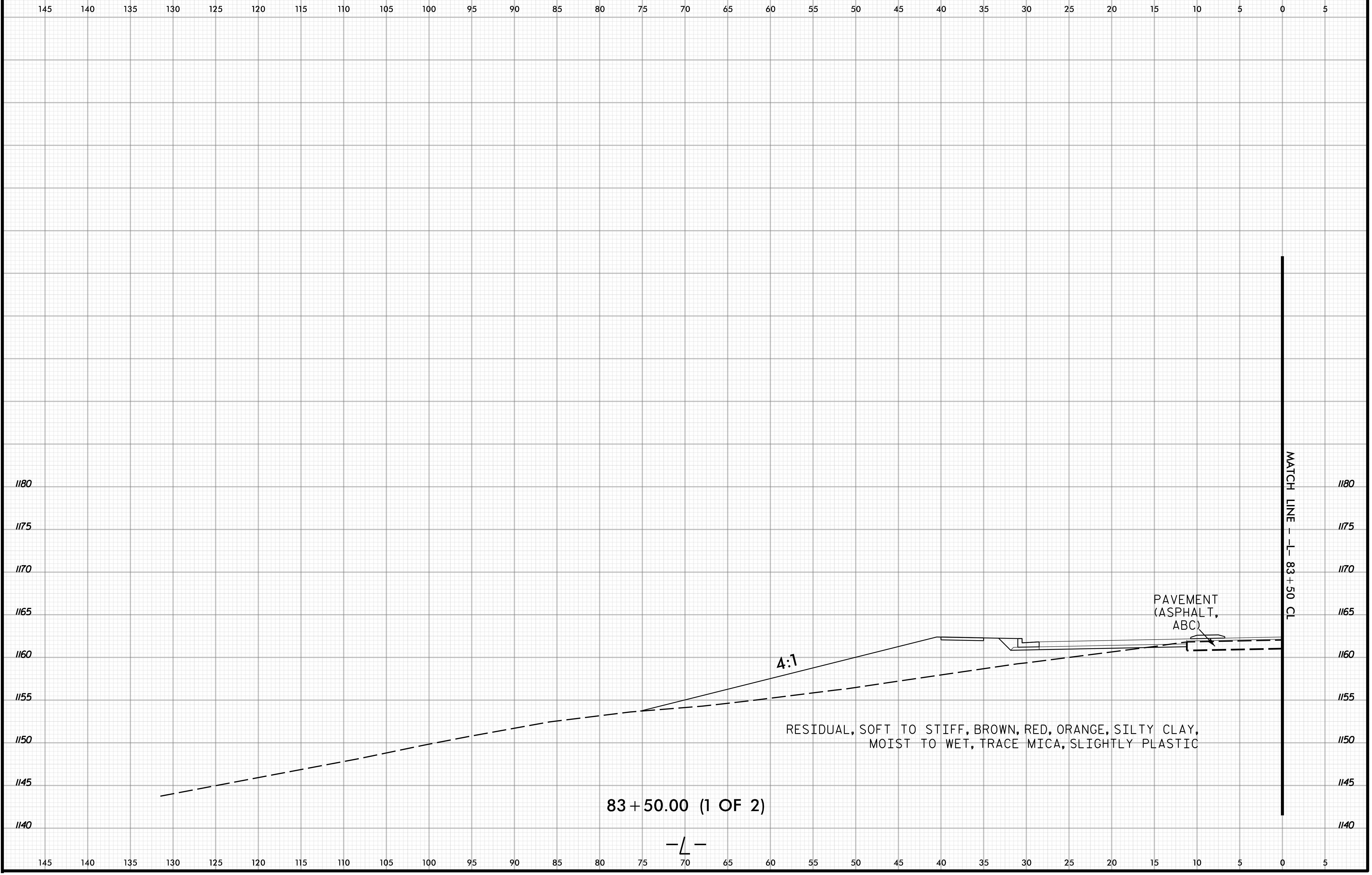
95
100
105
110
115
120
125
130
135
140
145
1175
1170
1165
1160
1155
1150
1145
1140
1135
MATCH LINE - -L- 82+00 CL
4:1
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, BROWN, ORANGE, WHITE, SILTY CLAY, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS, SLIGHTLY PLASTIC

82+00.00 (2 OF 2)

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	084



83+50.00 (1 OF 2)

-L-

6/23/16

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mlhartman AT W0070050699

6/23/16

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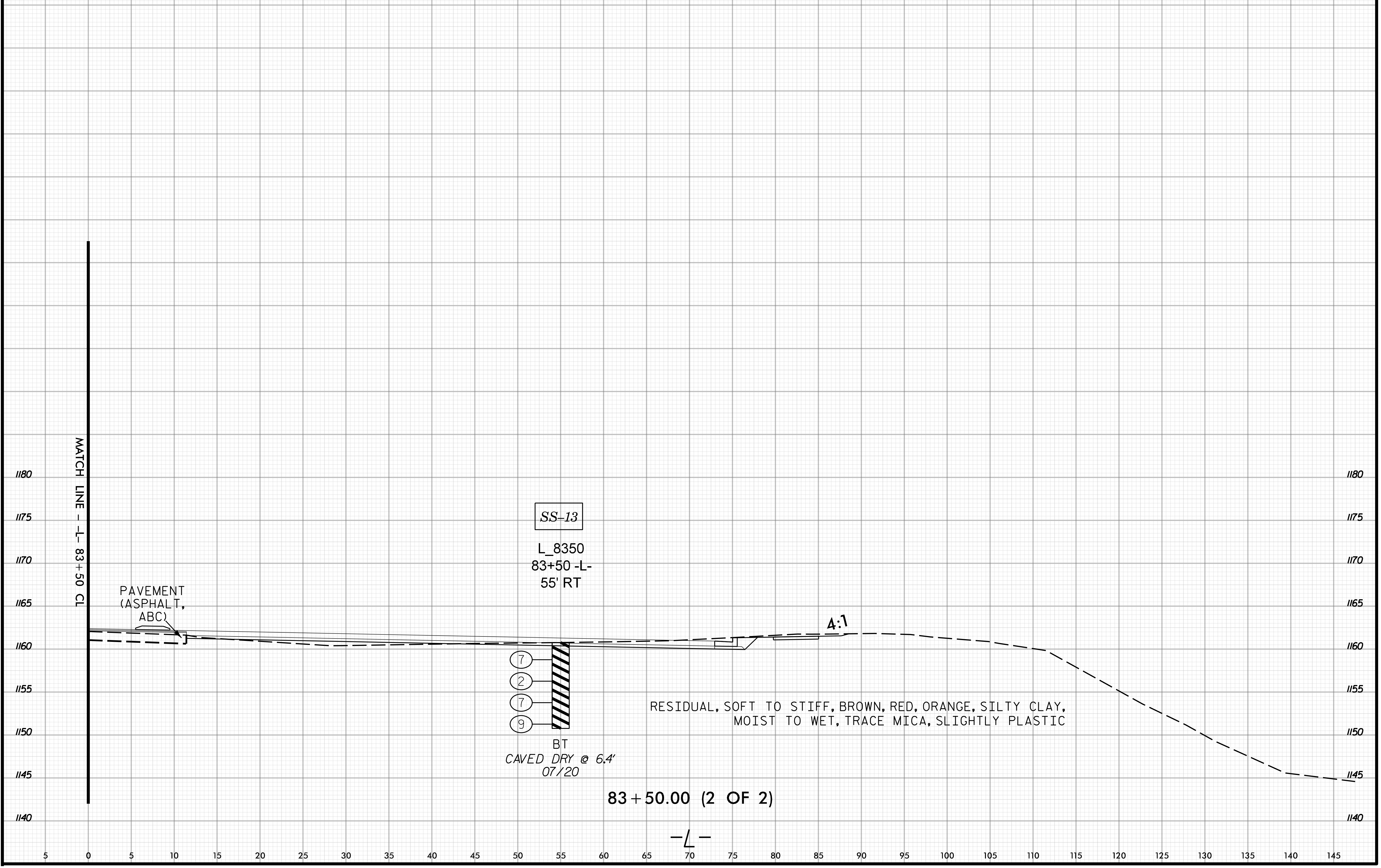
	R-5759	085



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mlhartman AT W00700500699

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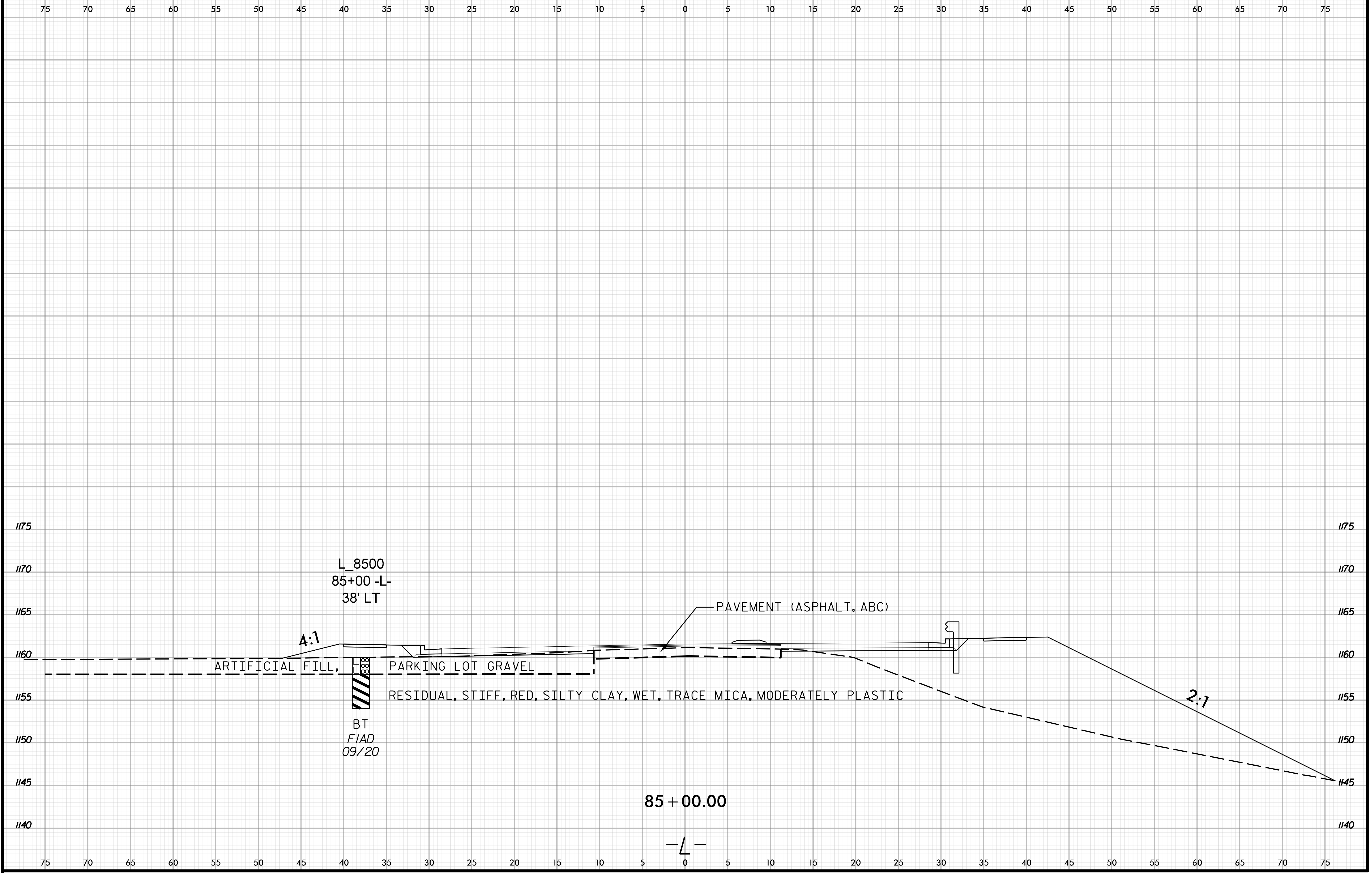

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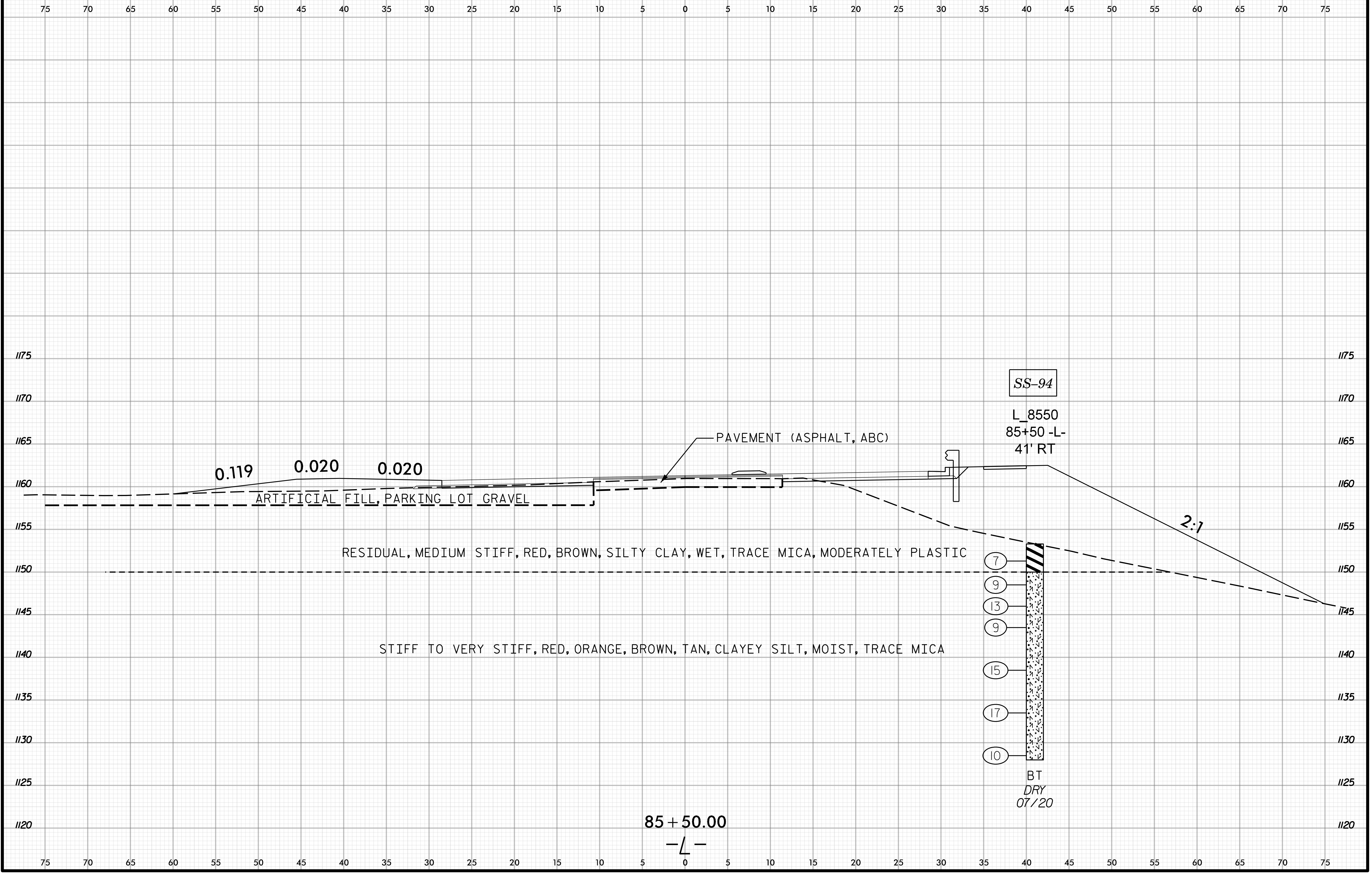
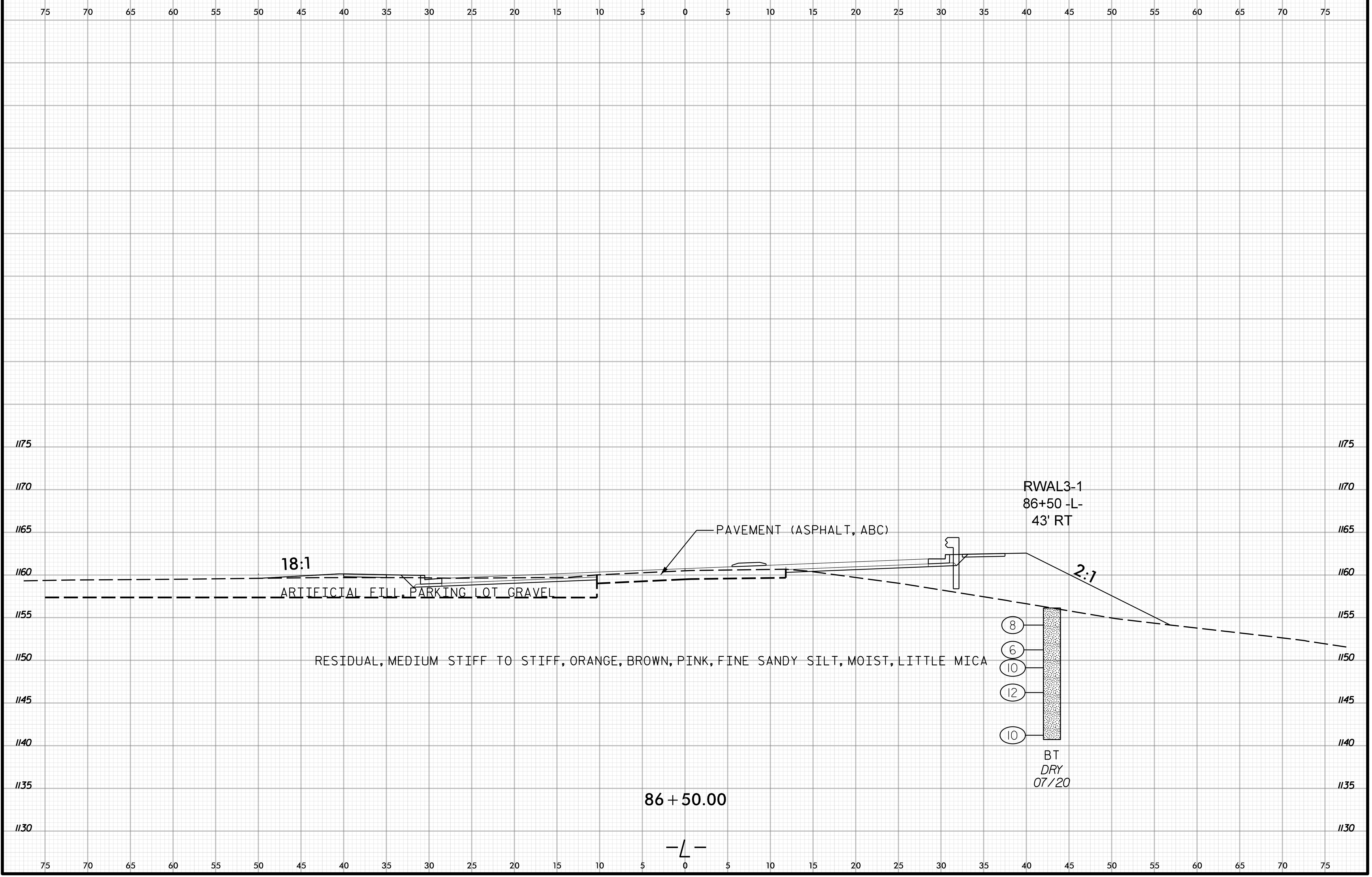


6/23/16



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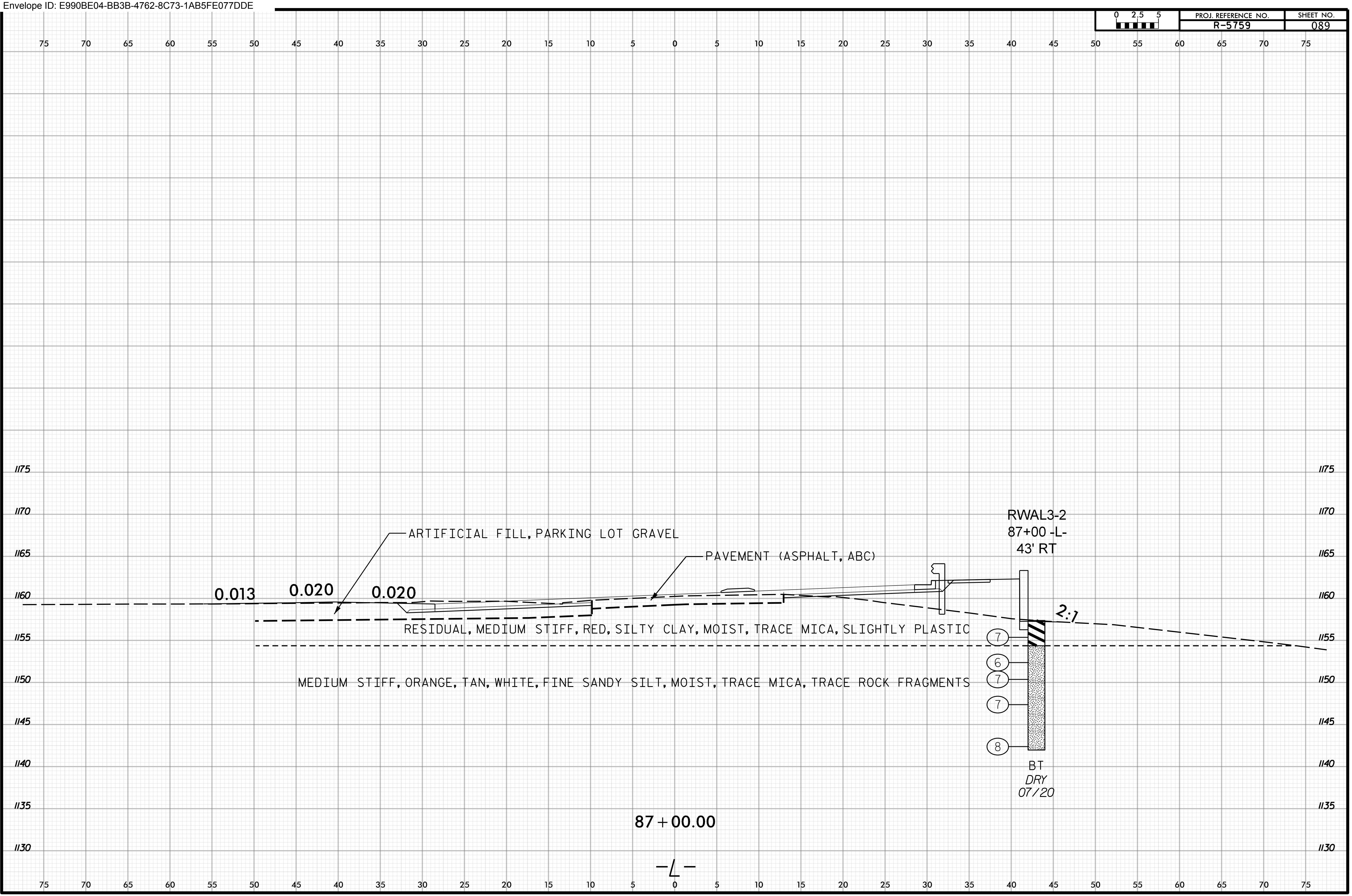

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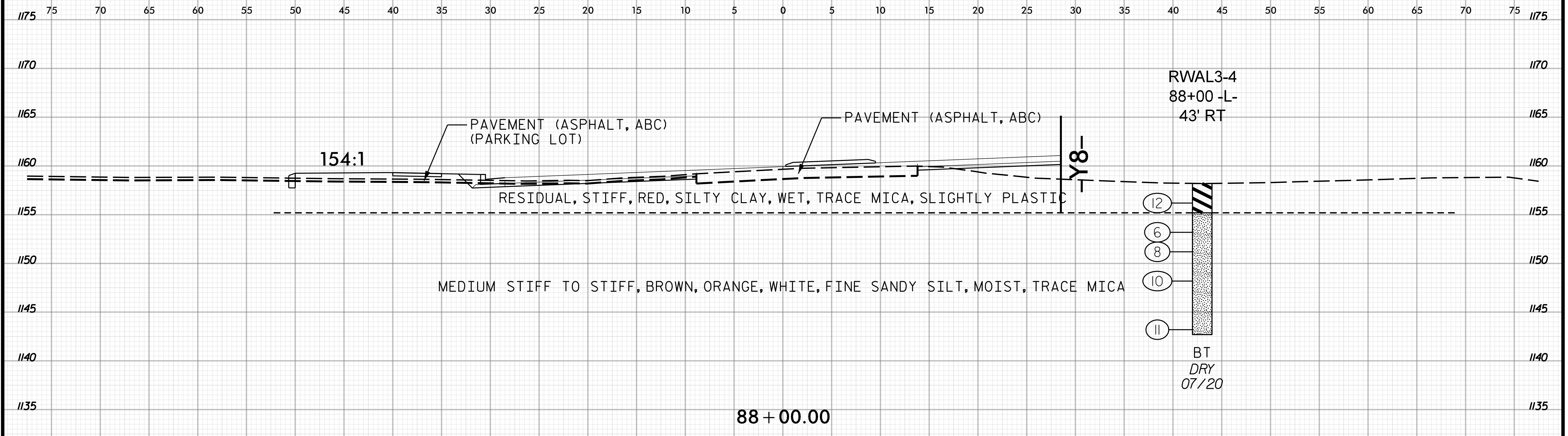

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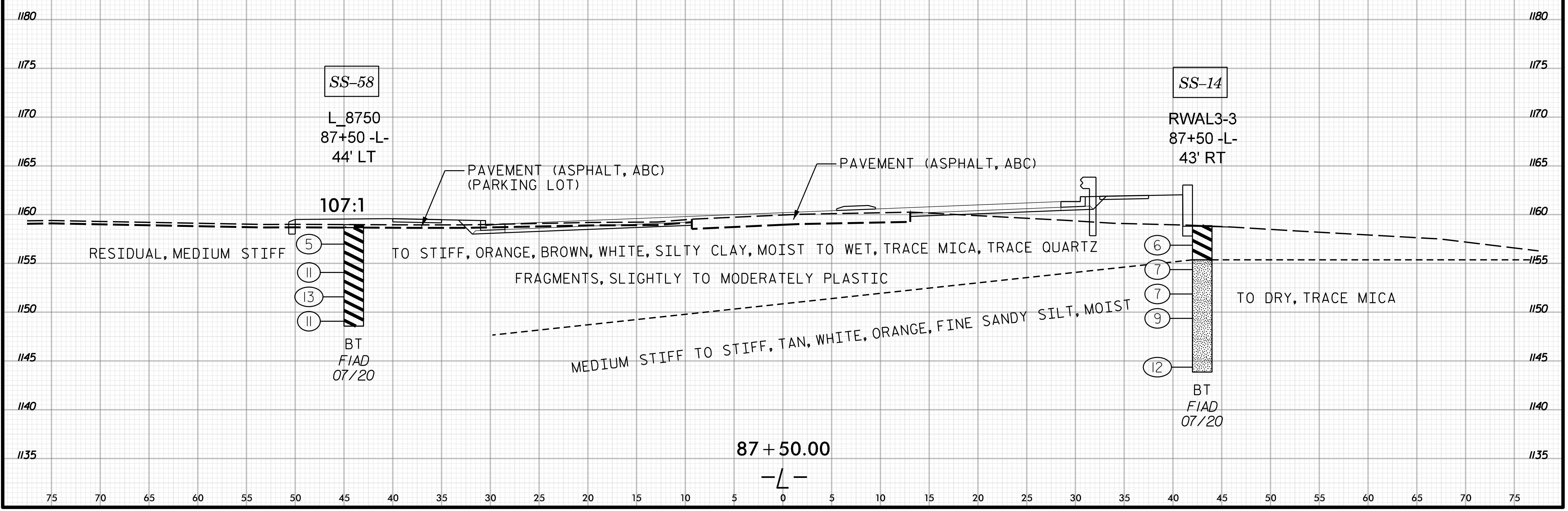

87+50.00

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6/23/16

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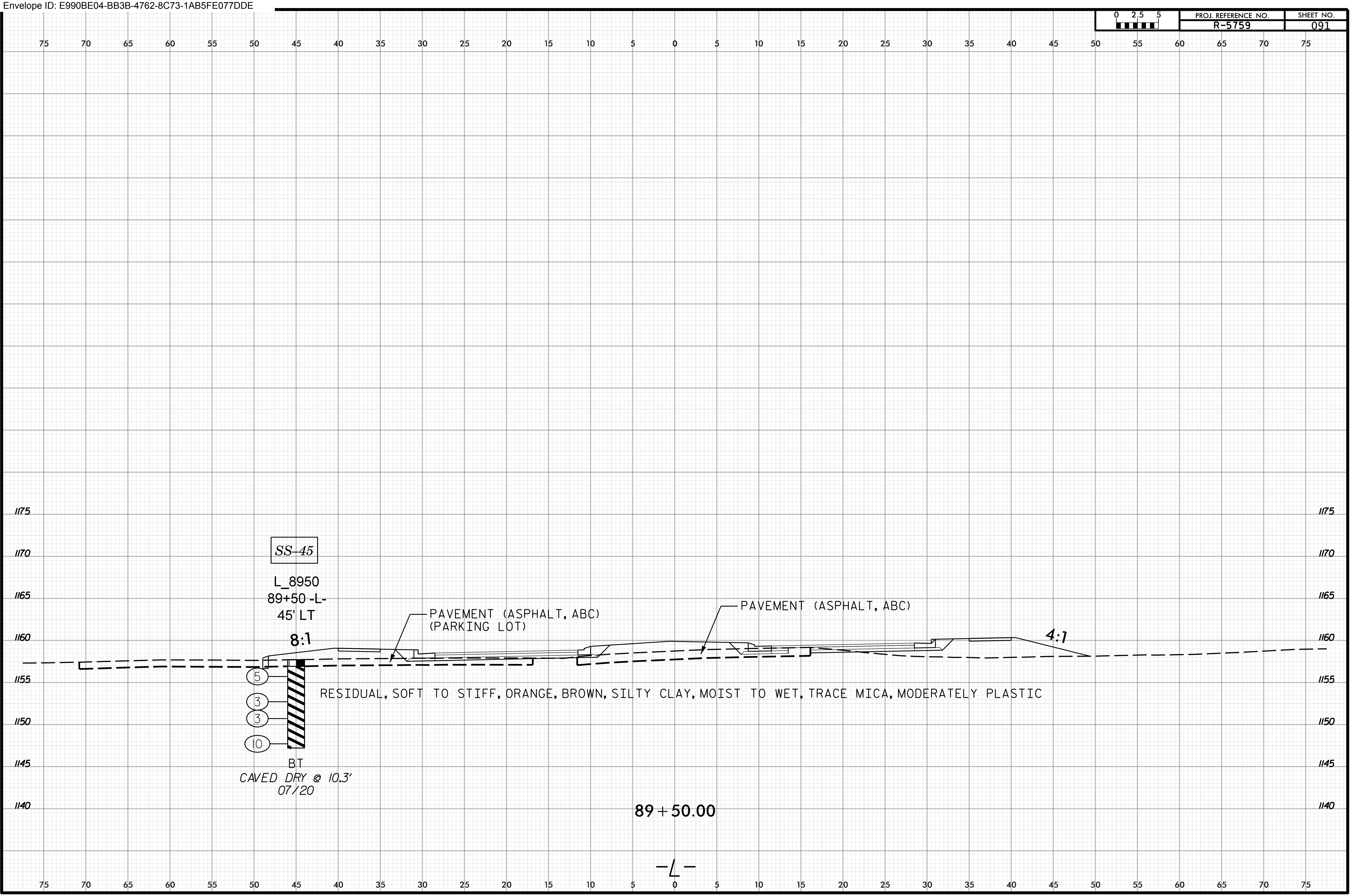
R-5759	091



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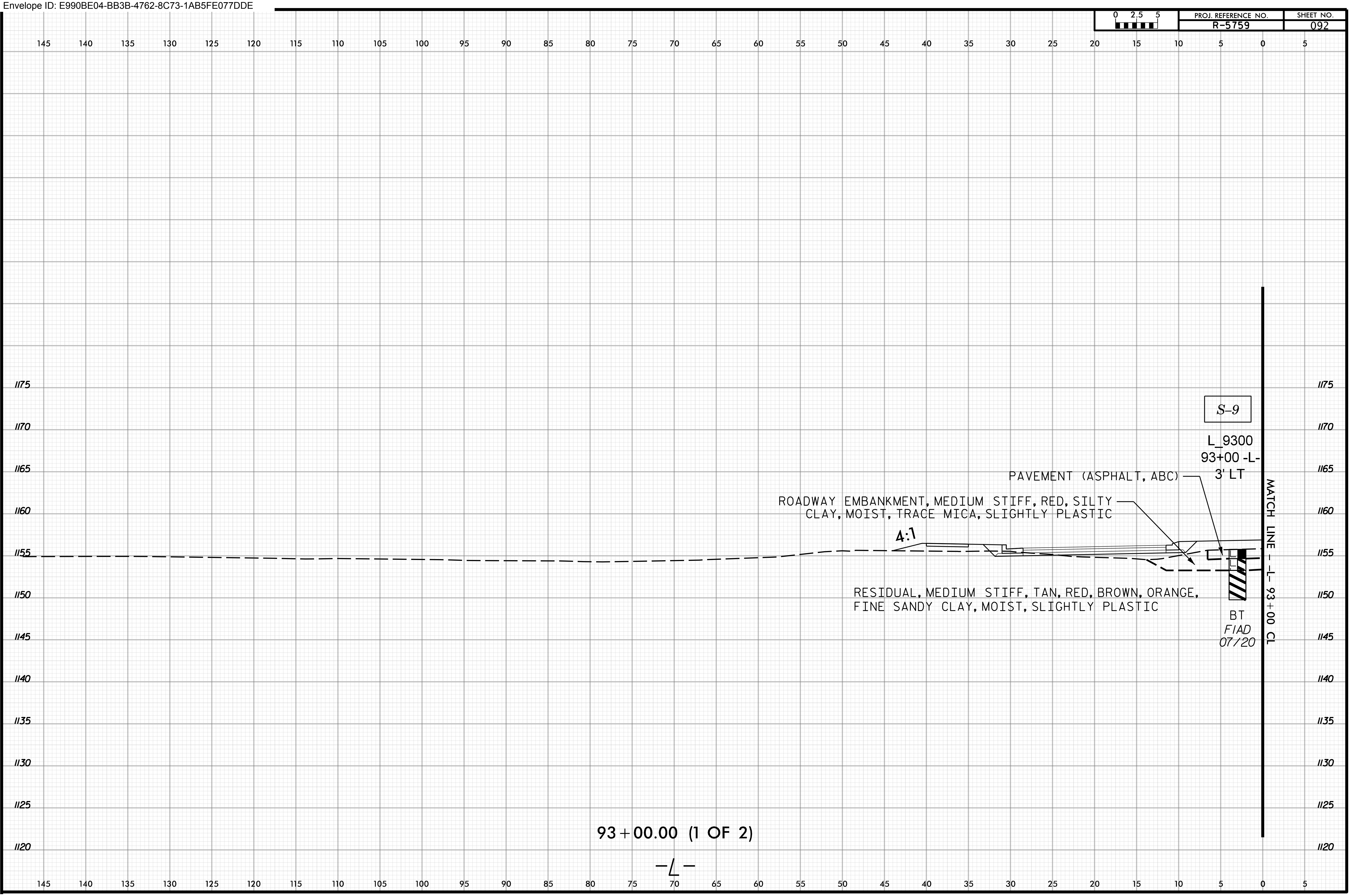

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mlhartman AT W00700500699

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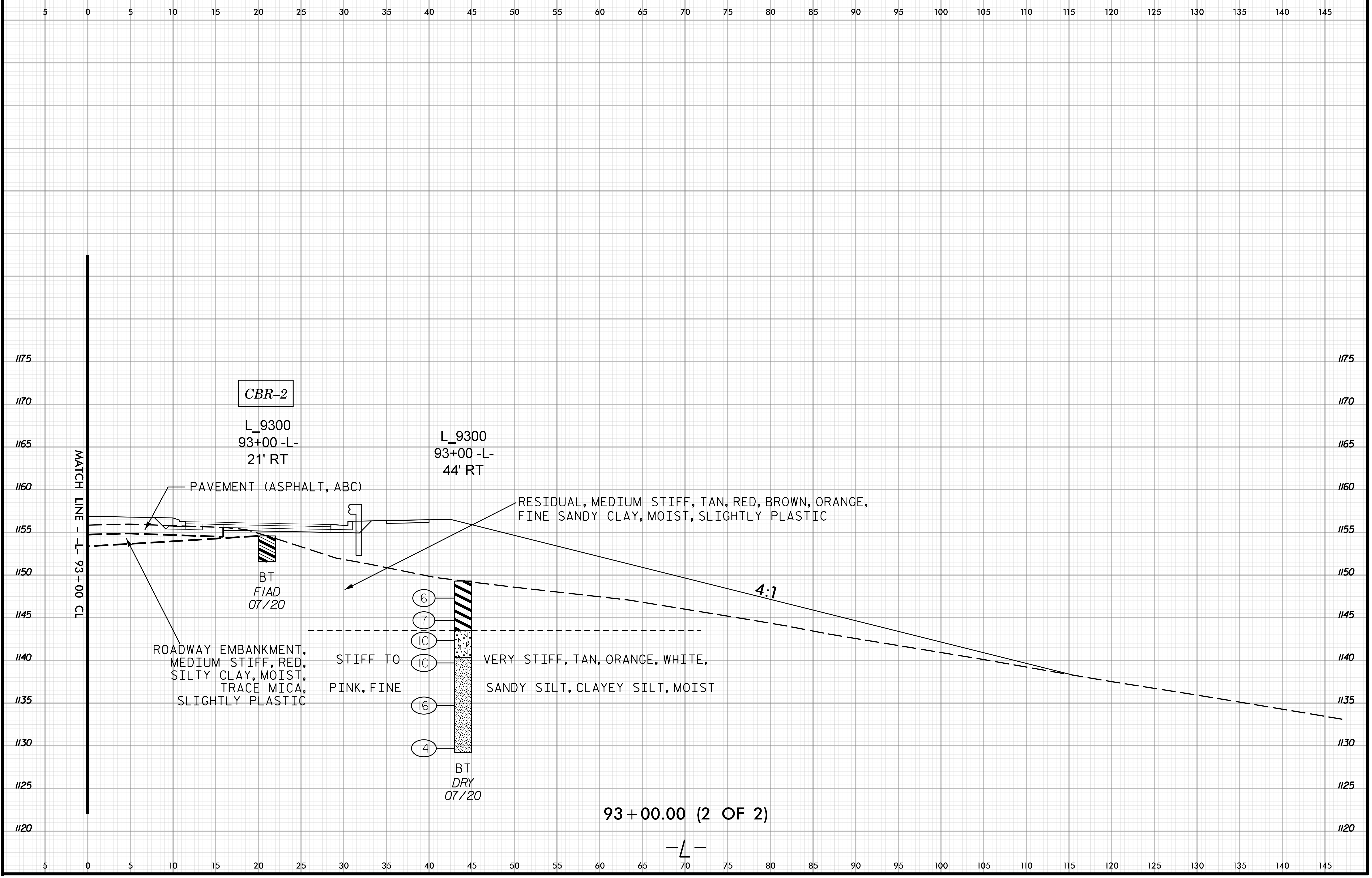
5
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100
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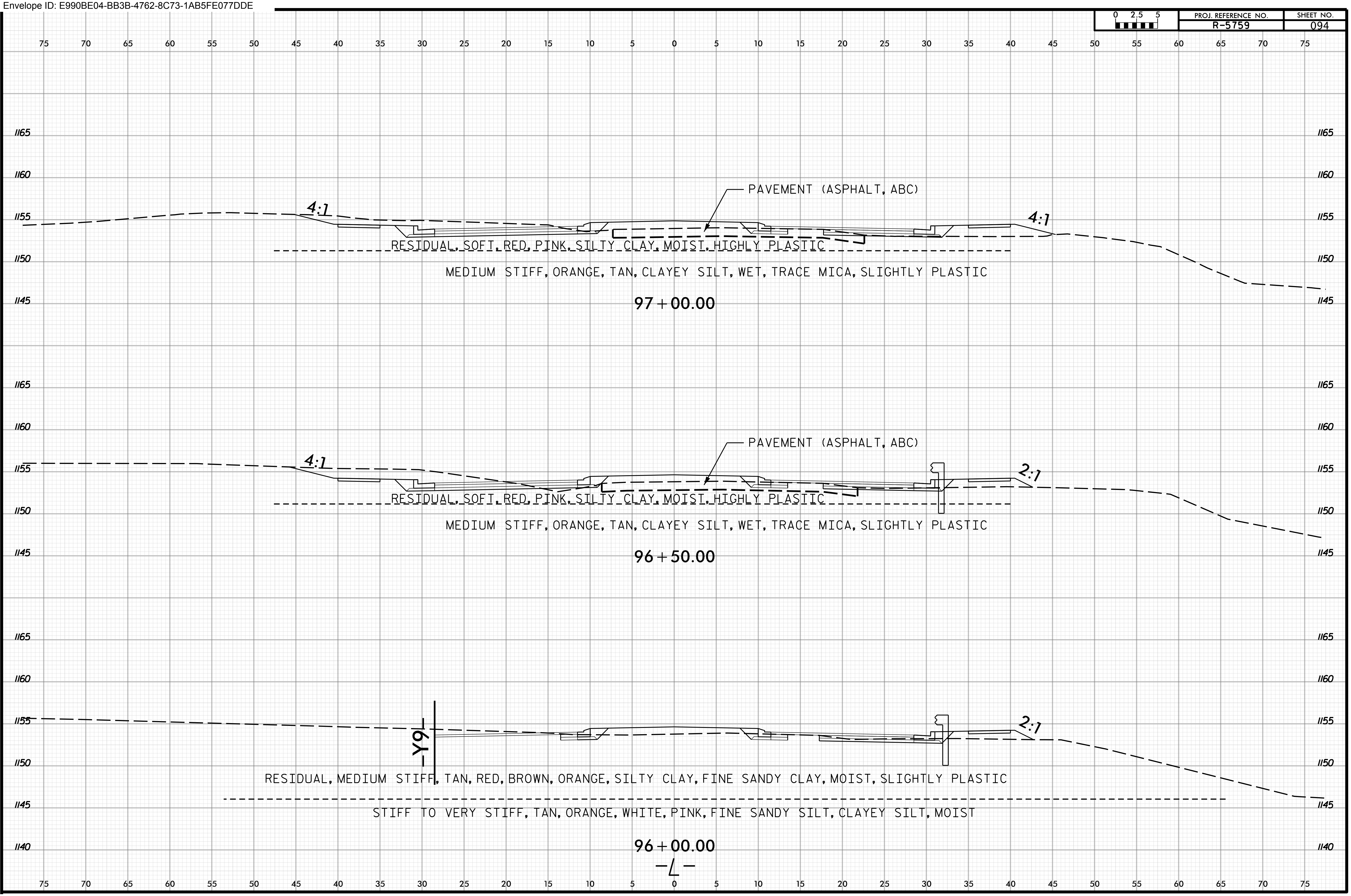
115
120
125
130
135
140
145
1175
1170
1165
1160
1155
1150
1145
1140
1135
1130
1125
1120
MATCH LINE - -L- 93+00 CL
CBR-2
L_9300
93+00 -L-
21' RT
L_9300
93+00 -L-
44' RT
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, TAN, RED, BROWN, ORANGE, FINE SANDY CLAY, MOIST, SLIGHTLY PLASTIC
BT
FIAD
07/20
4:1
6
7
10
10
16
14
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC
STIFF TO VERY STIFF, TAN, ORANGE, WHITE,
PINK, FINE SANDY SILT, CLAYEY SILT, MOIST
BT
DRY
07/20

93+00.00 (2 OF 2)

-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	094


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1165
1160
1155
1150
1145
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, SOFT, RED, PINK, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, TAN, CLAYEY SILT, WET, TRACE MICA, SLIGHTLY PLASTIC
97+00.00
1165
1160
1155
1150
1145
PAVEMENT (ASPHALT, ABC)
4:1
2:1
RESIDUAL, SOFT, RED, PINK, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, TAN, CLAYEY SILT, WET, TRACE MICA, SLIGHTLY PLASTIC
96+50.00
1165
1160
1155
1150
1145
1140
-Y9-
2:1
RESIDUAL, MEDIUM STIFF, TAN, RED, BROWN, ORANGE, SILTY CLAY, FINE SANDY CLAY, MOIST, SLIGHTLY PLASTIC
STIFF TO VERY STIFF, TAN, ORANGE, WHITE, PINK, FINE SANDY SILT, CLAYEY SILT, MOIST
96+00.00
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

28-AUG-2024 08:57
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mlhartman AT W00700050699

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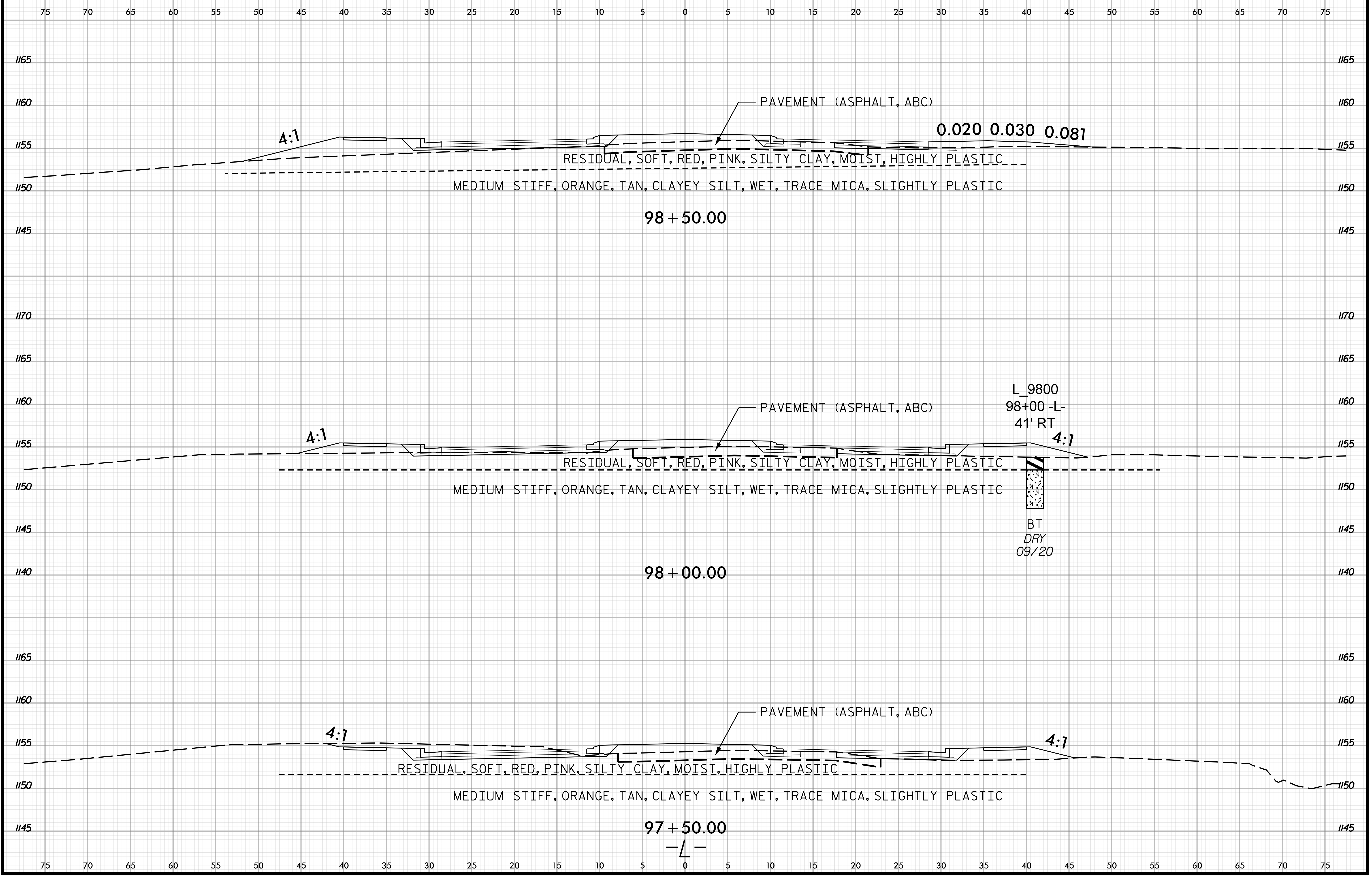
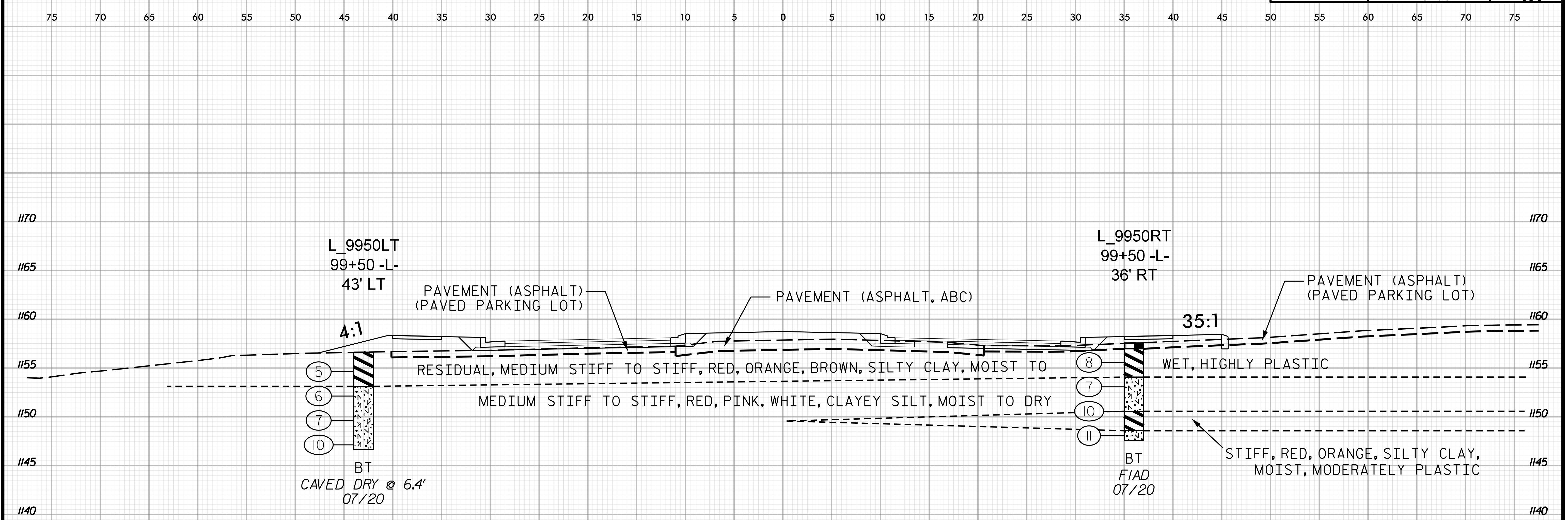
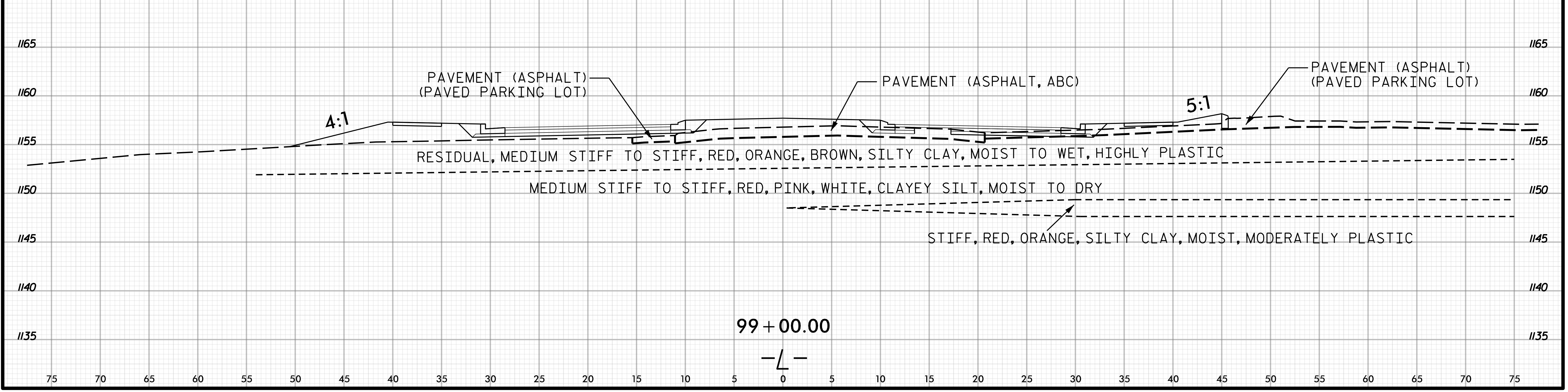




99 + 50.00



99 + 00.00
-L-

PROJ. REFERENCE NO.	SHEET NO.
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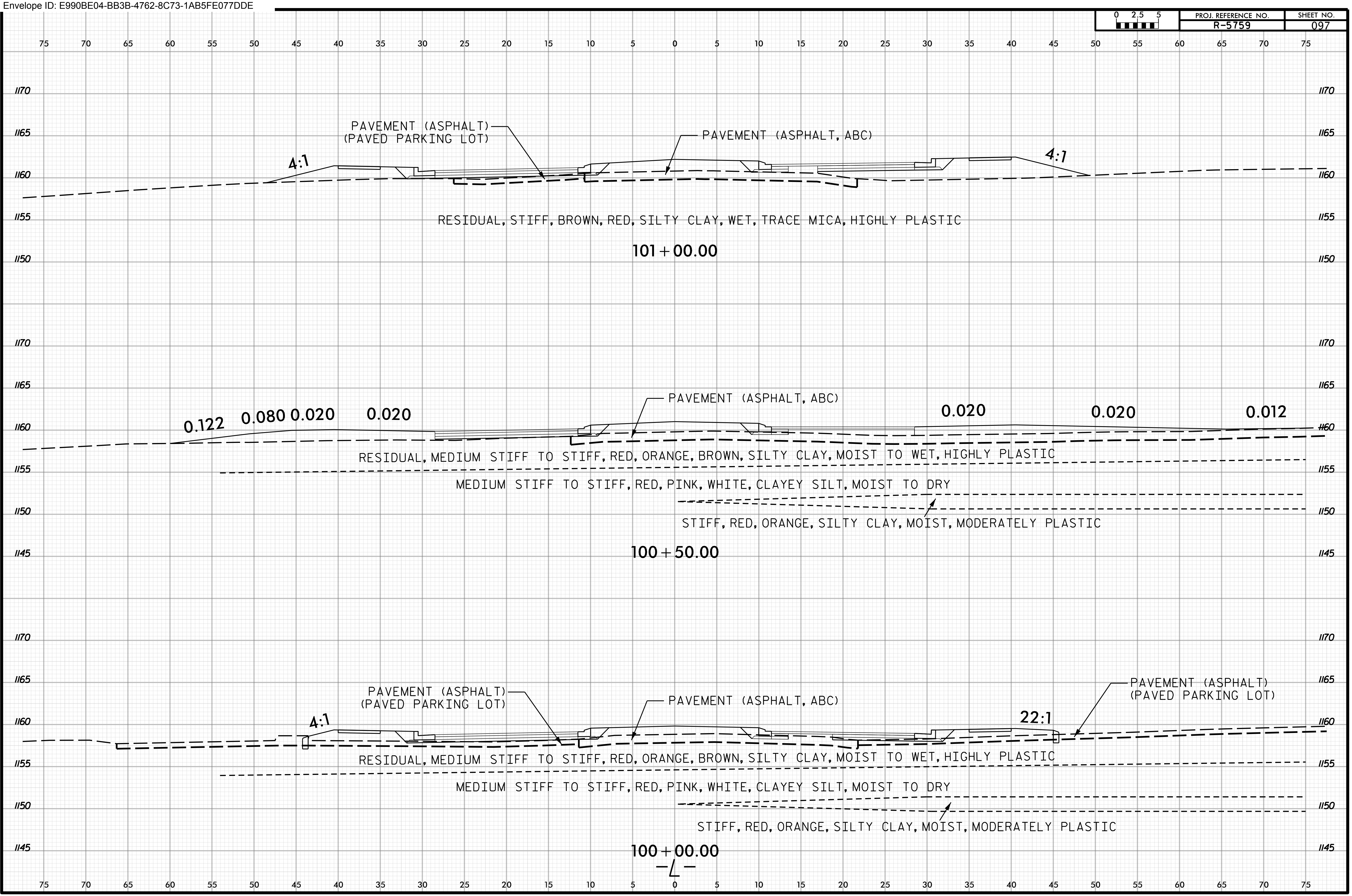
6/23/16



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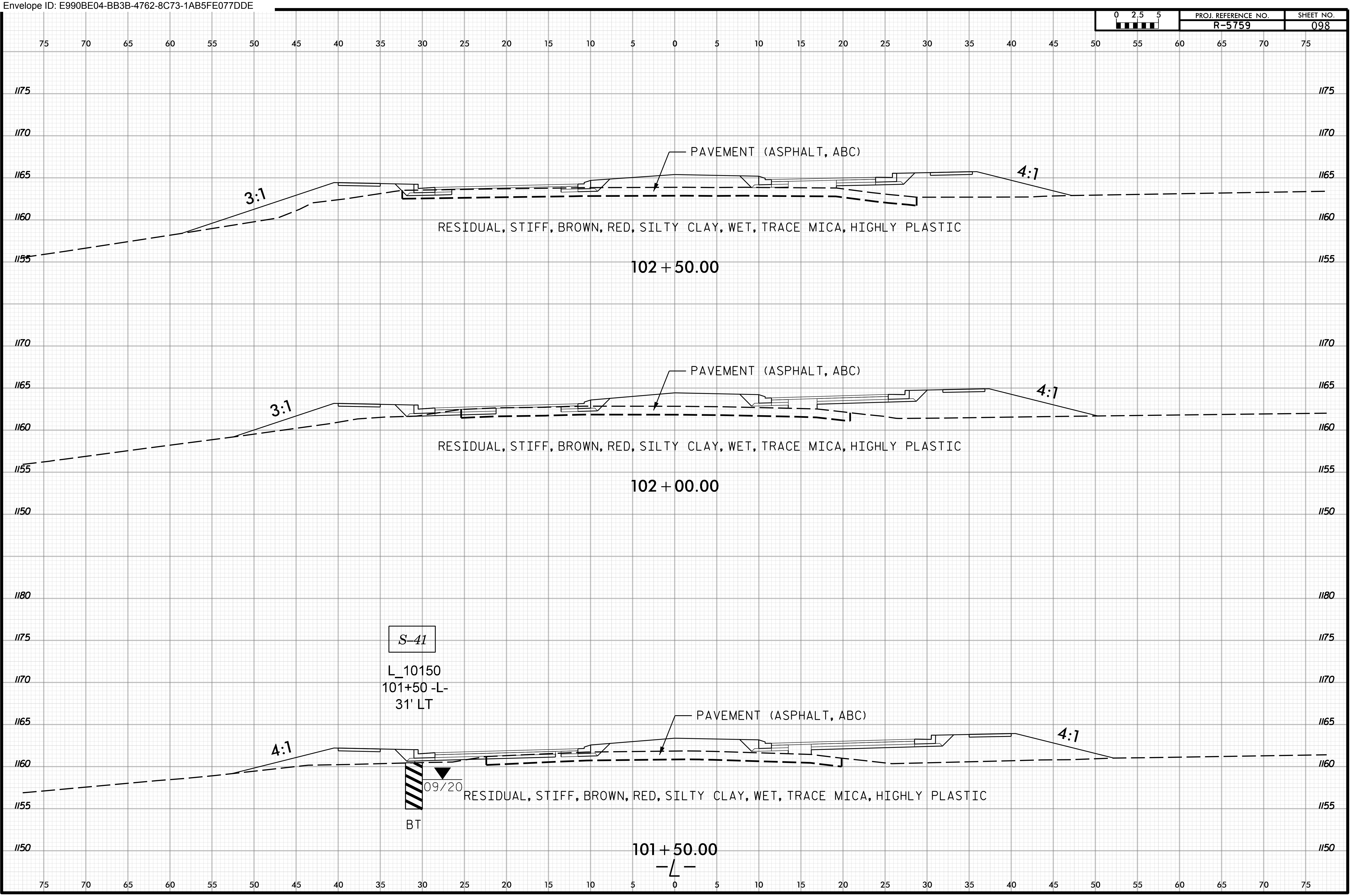

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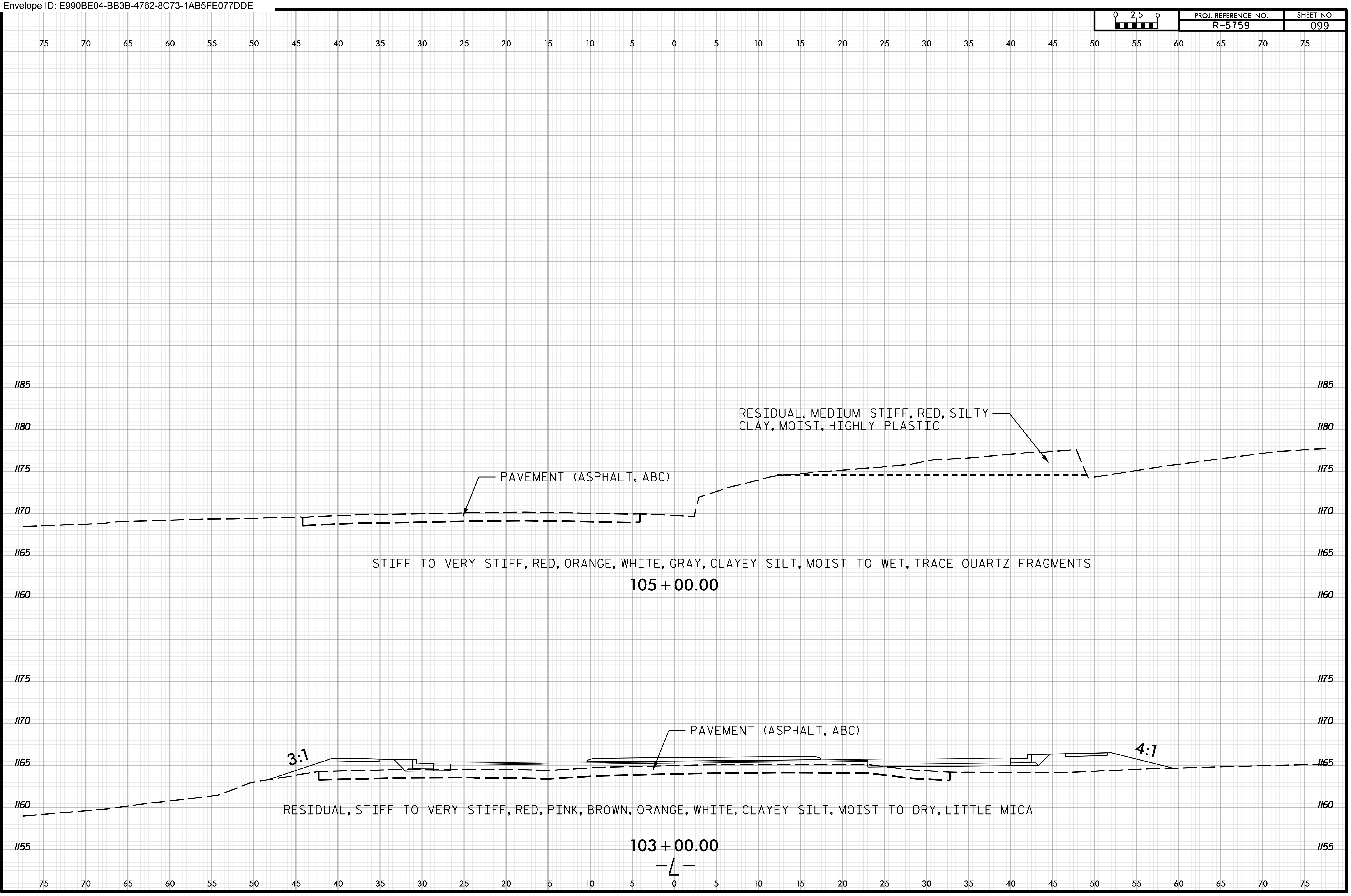

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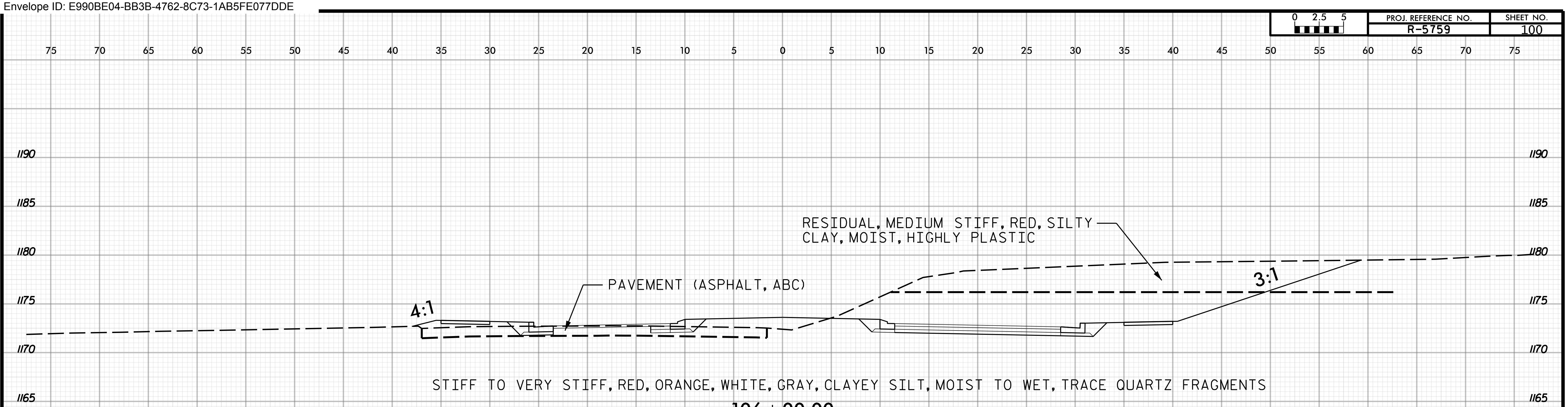
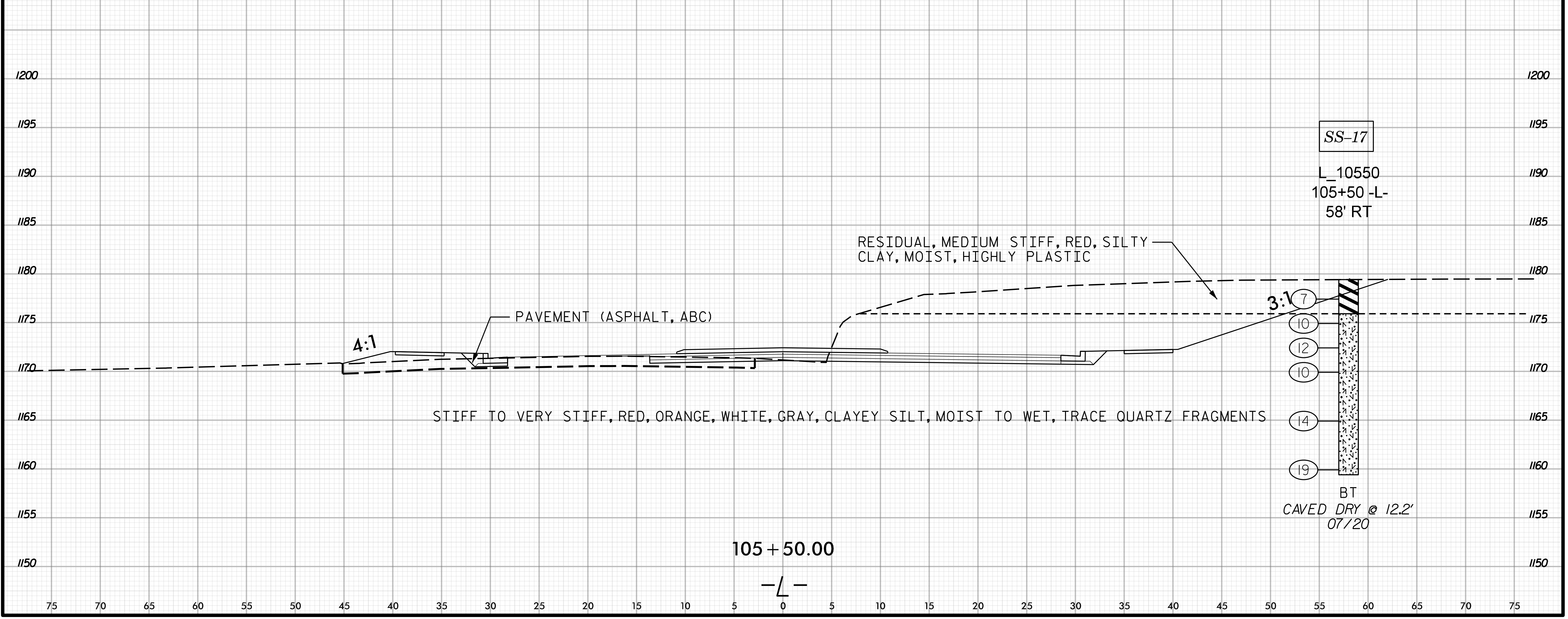
R-5759	100


6/23/16
0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1190
1185
1180
1175
1170
1165
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, MOIST, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
3:1
STIFF TO VERY STIFF, RED, ORANGE, WHITE, GRAY, CLAYEY SILT, MOIST TO WET, TRACE QUARTZ FRAGMENTS

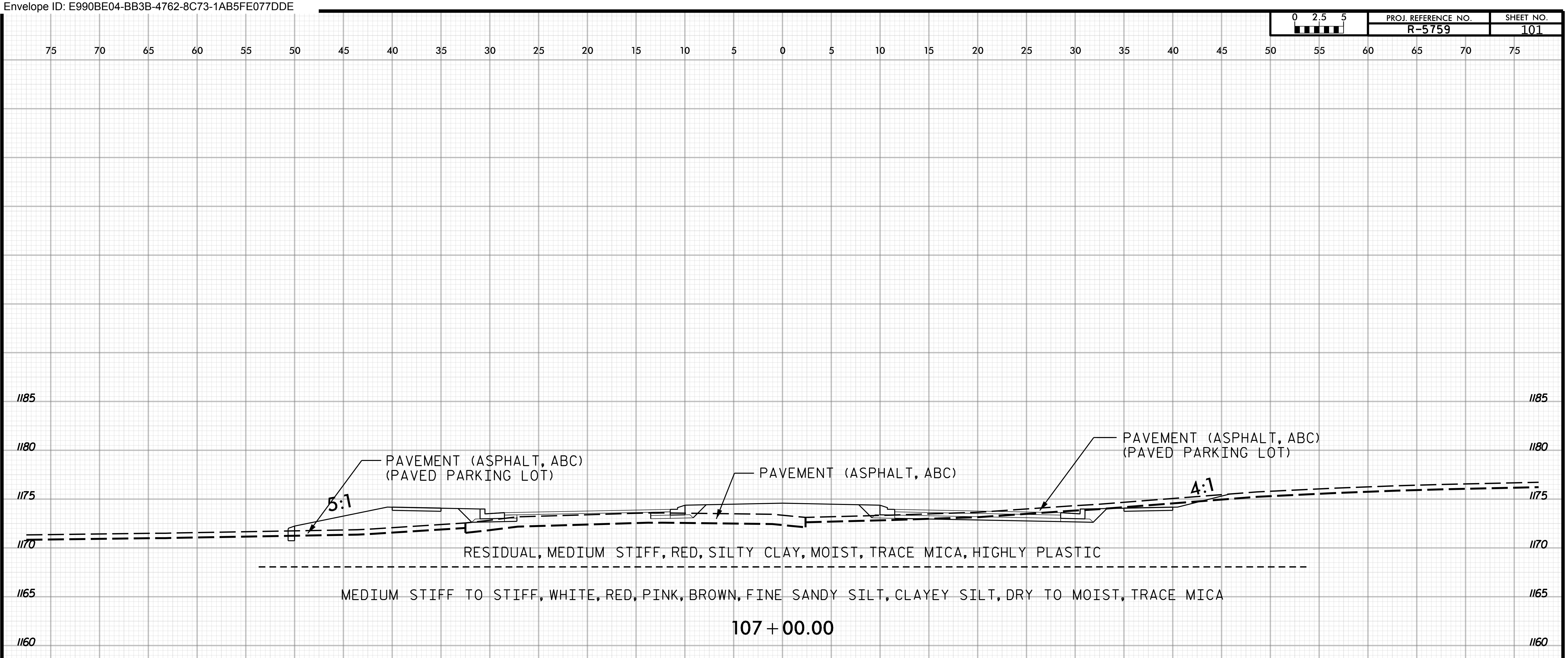
106+00.00



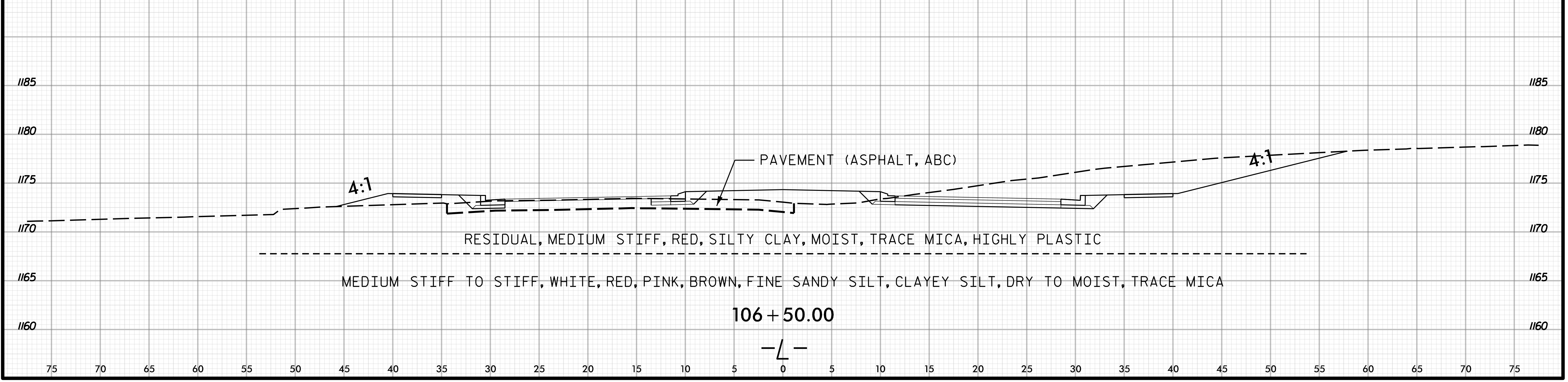
105+50.00

-L-

6/23/16



107+00.00


1185
1180
1175
1170
1165
1160
4:1
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, WHITE, RED, PINK, BROWN, FINE SANDY SILT, CLAYEY SILT, DRY TO MOIST, TRACE MICA
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

106+50.00

-L-

28-AUG-2024 08:57
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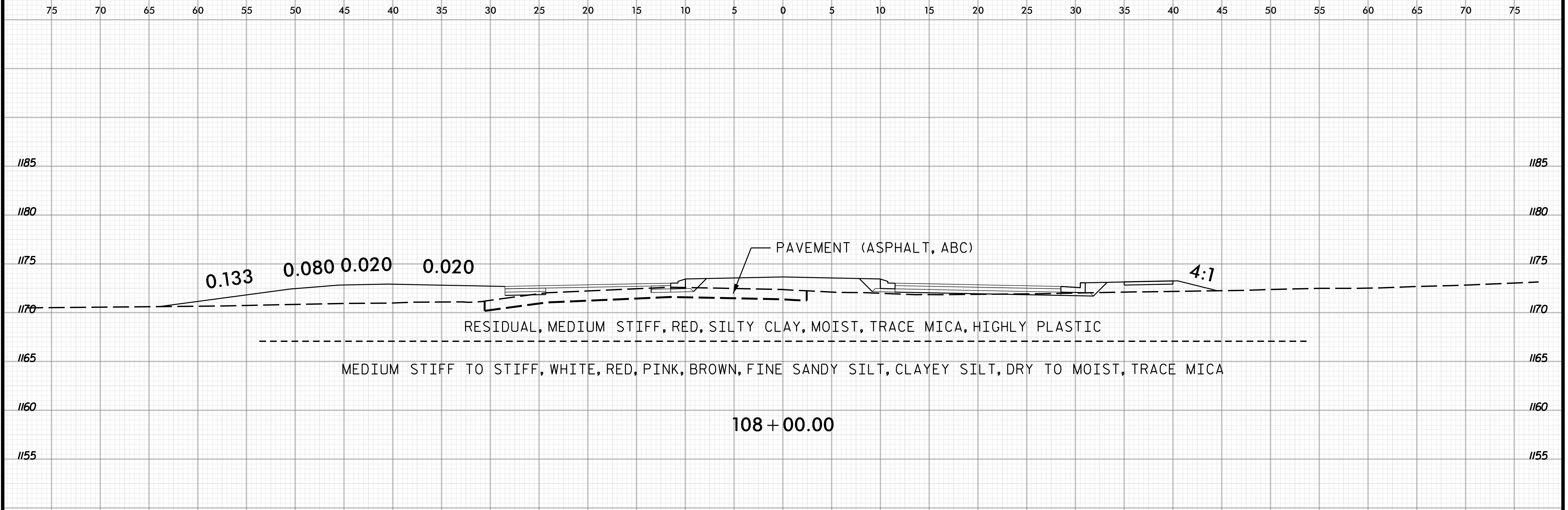
mlhartman AT W00700500699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	102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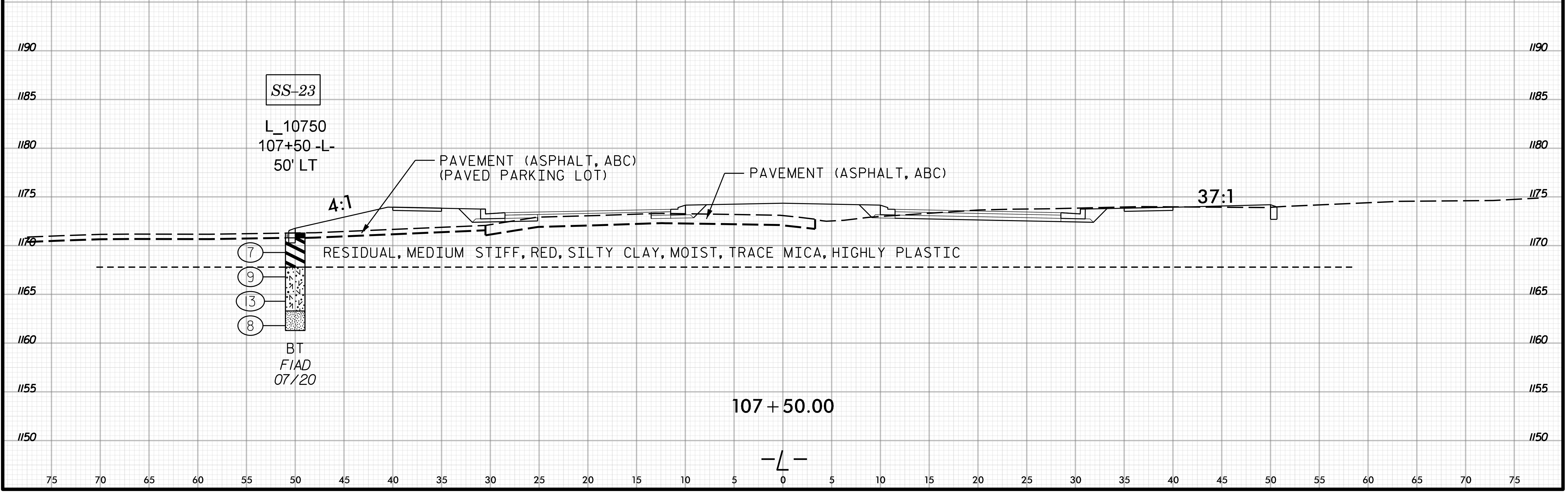
1185
1180
1175
1170
1165
1160
1155
PAVEMENT (ASPHALT, ABC)
0.133
0.080
0.020
0.020
4:1
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, WHITE, RED, PINK, BROWN, FINE SANDY SILT, CLAYEY SILT, DRY TO MOIST, TRACE MICA

108 + 00.00



107 + 50.00

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6/23/16

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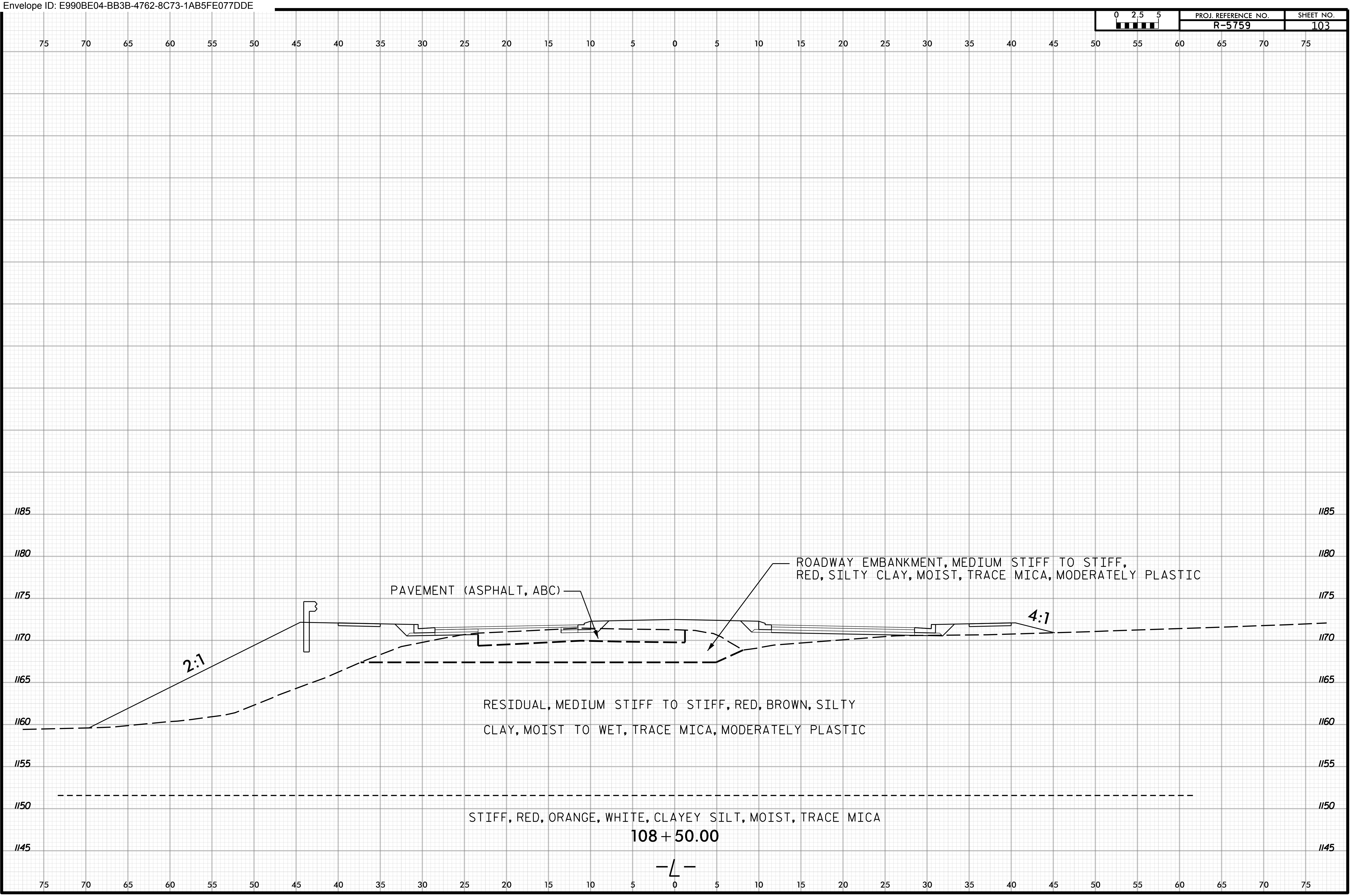
PROJ. REFERENCE NO.	SHEET NO.
R-5759	103



ROADWAY EMBANKMENT, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, MODERATELY PLASTIC

PAVEMENT (ASPHALT, ABC)

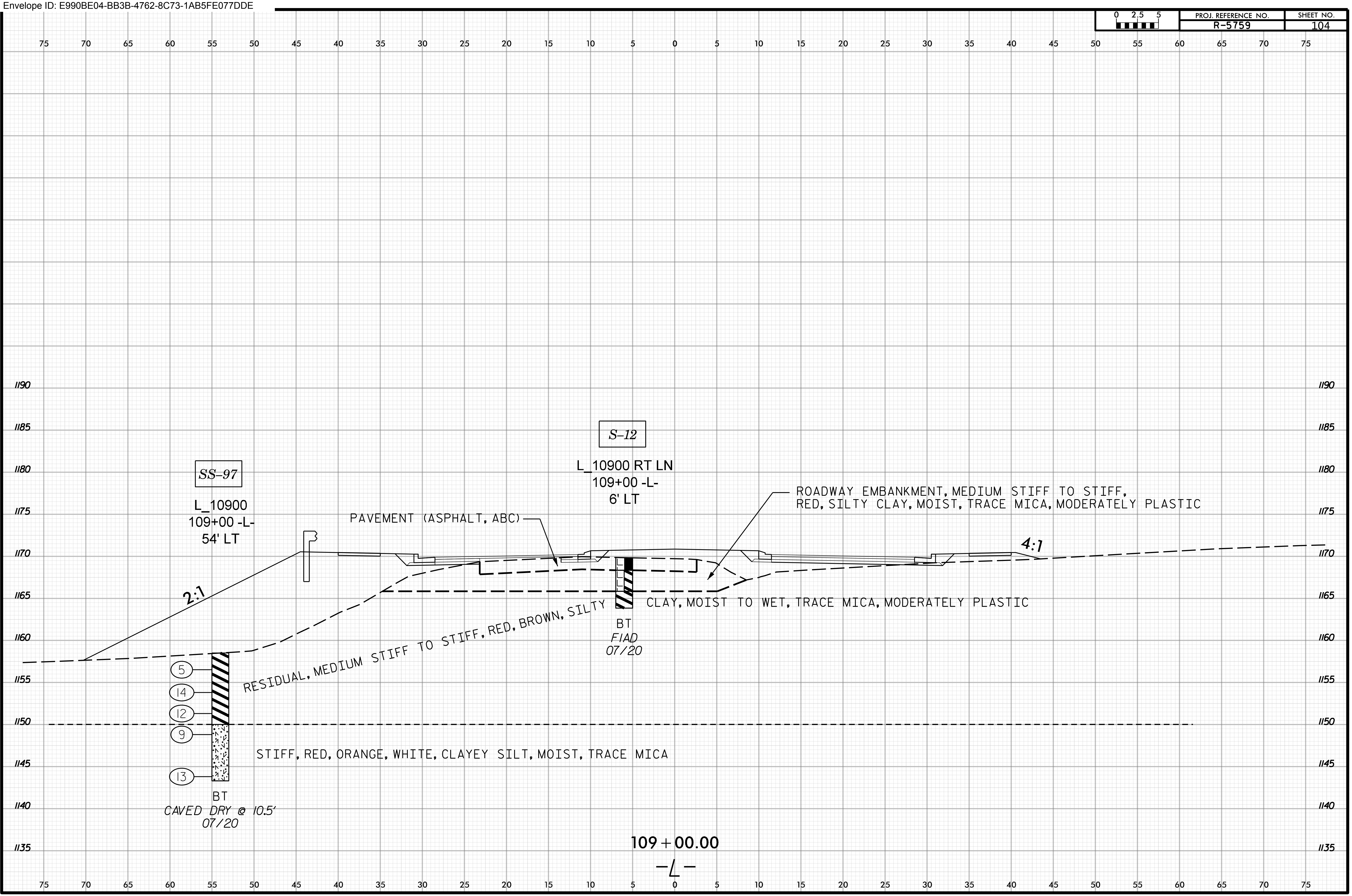
RESIDUAL, MEDIUM STIFF TO STIFF, RED, BROWN, SILTY CLAY, MOIST TO WET, TRACE MICA, MODERATELY PLASTIC

STIFF, RED, ORANGE, WHITE, CLAYEY SILT, MOIST, TRACE MICA

108+50.00

-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	104



6/23/16

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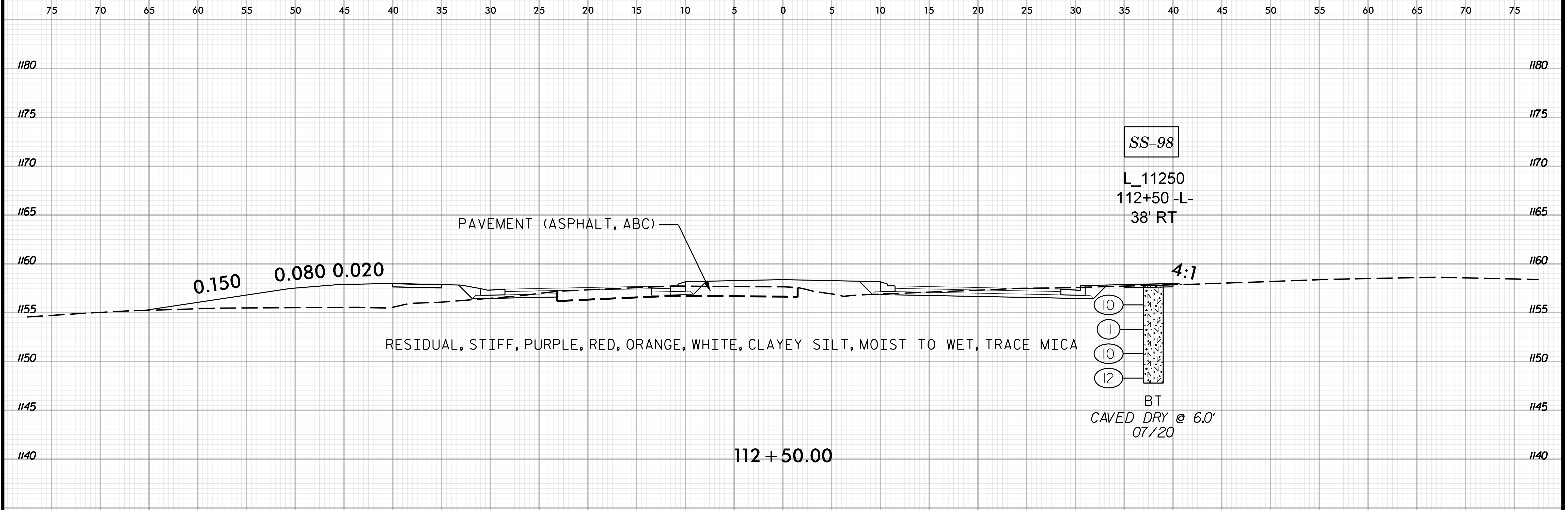
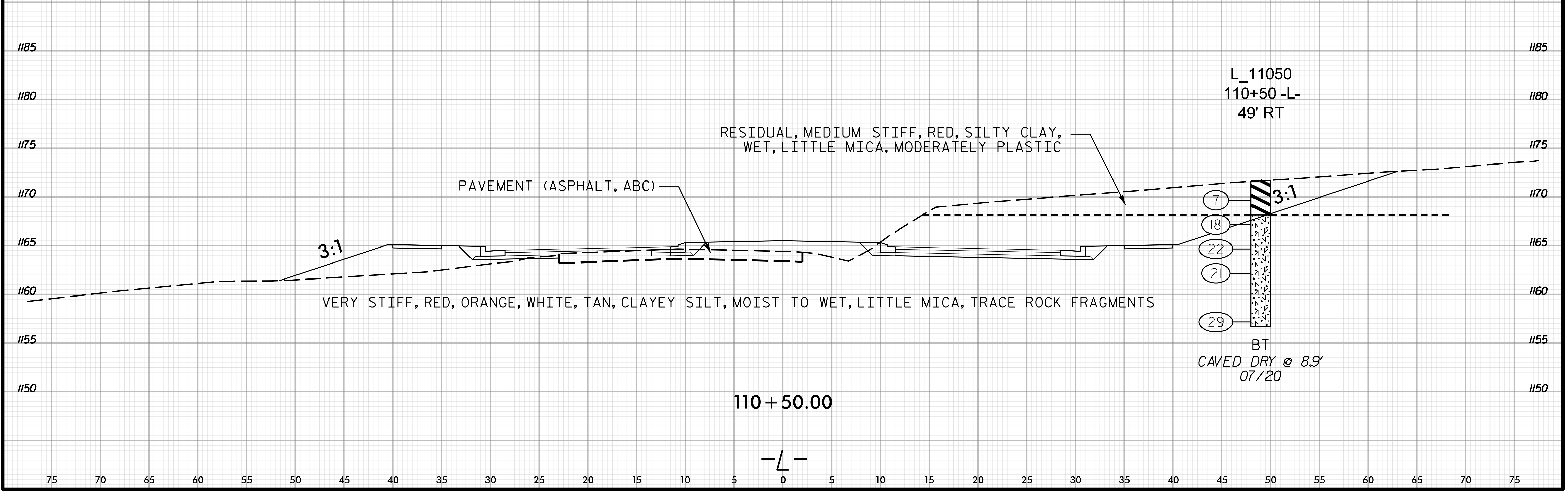
6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	105



112+50.00



110+50.00

-L-

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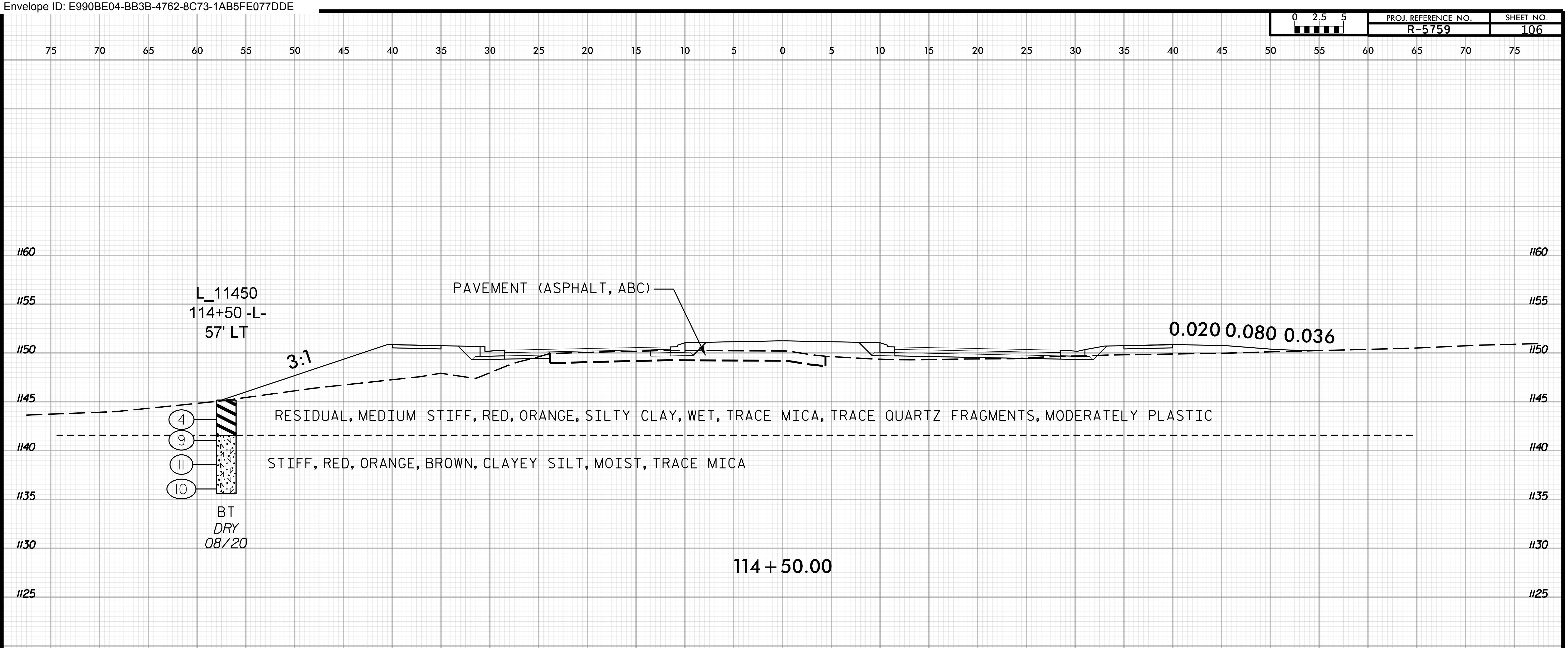
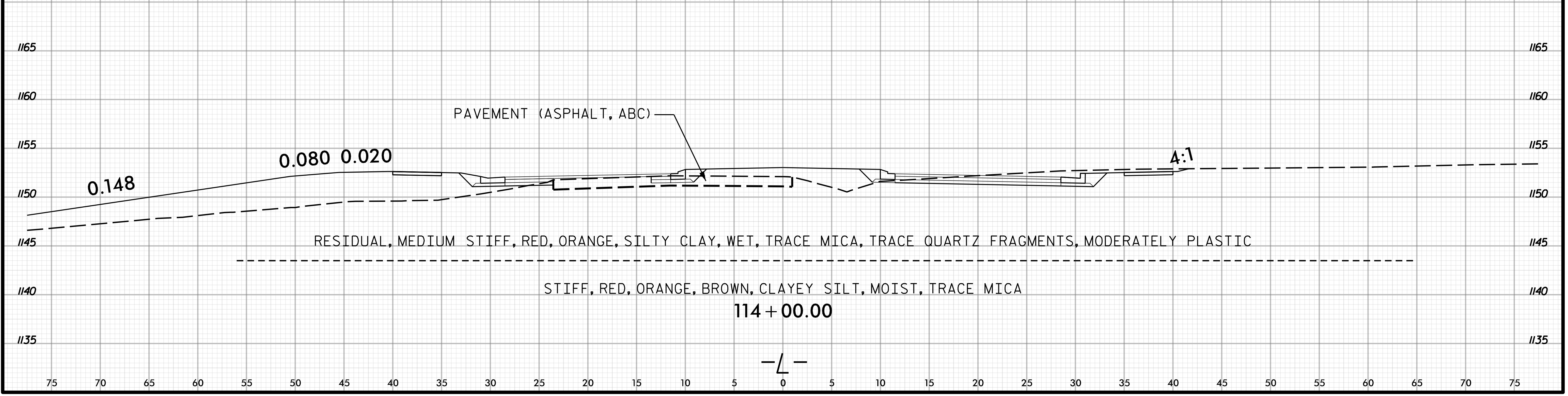


114+50.00


1165
1160
1155
1150
1145
1140
1135
PAVEMENT (ASPHALT, ABC)
0.148
0.080 0.020
4:1
RESIDUAL, MEDIUM STIFF, RED, ORANGE, SILTY CLAY, WET, TRACE MICA, TRACE QUARTZ FRAGMENTS, MODERATELY PLASTIC
STIFF, RED, ORANGE, BROWN, CLAYEY SILT, MOIST, TRACE MICA
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

114+00.00

-L-

28-AUG-2024 08:57
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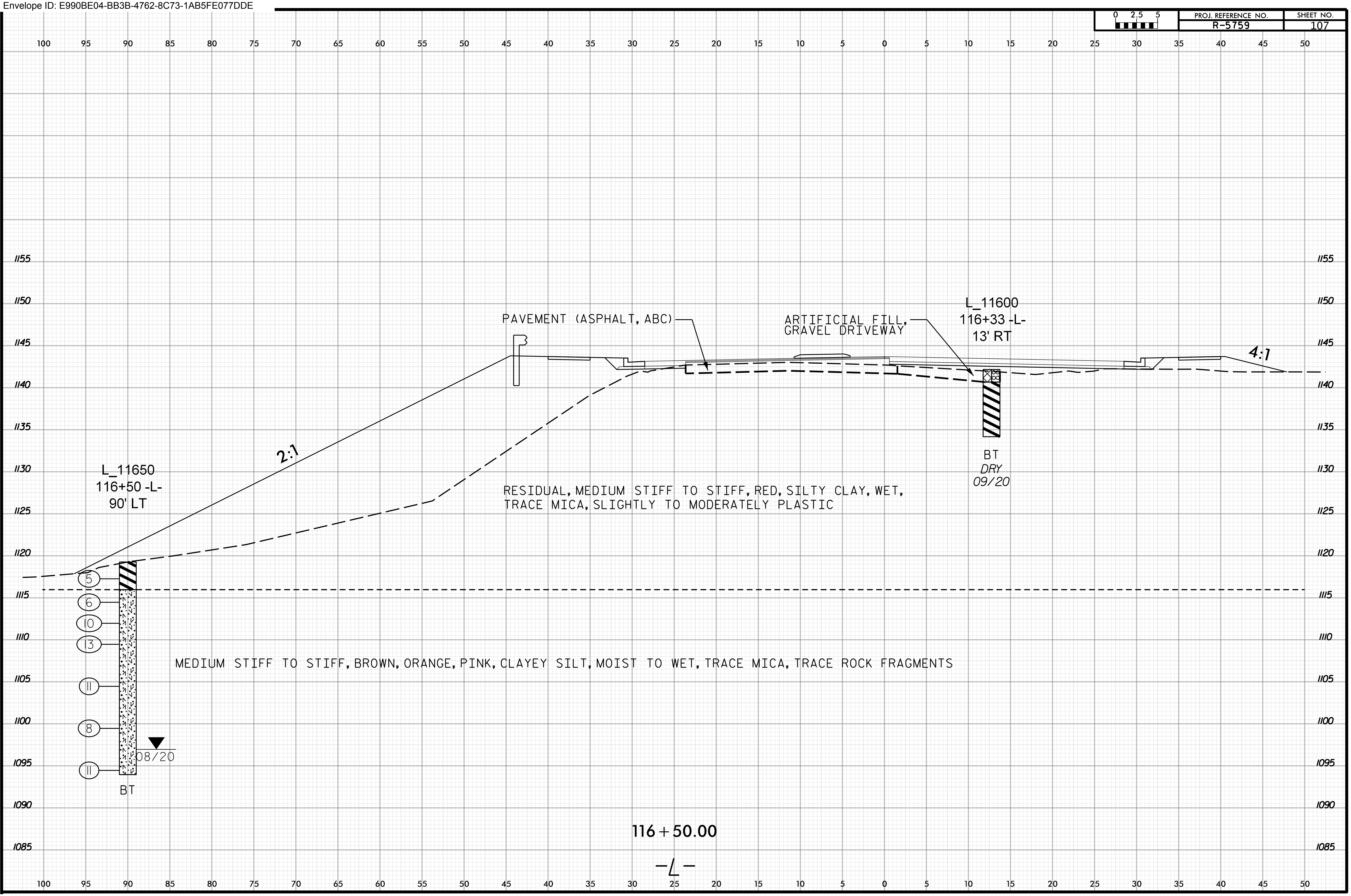

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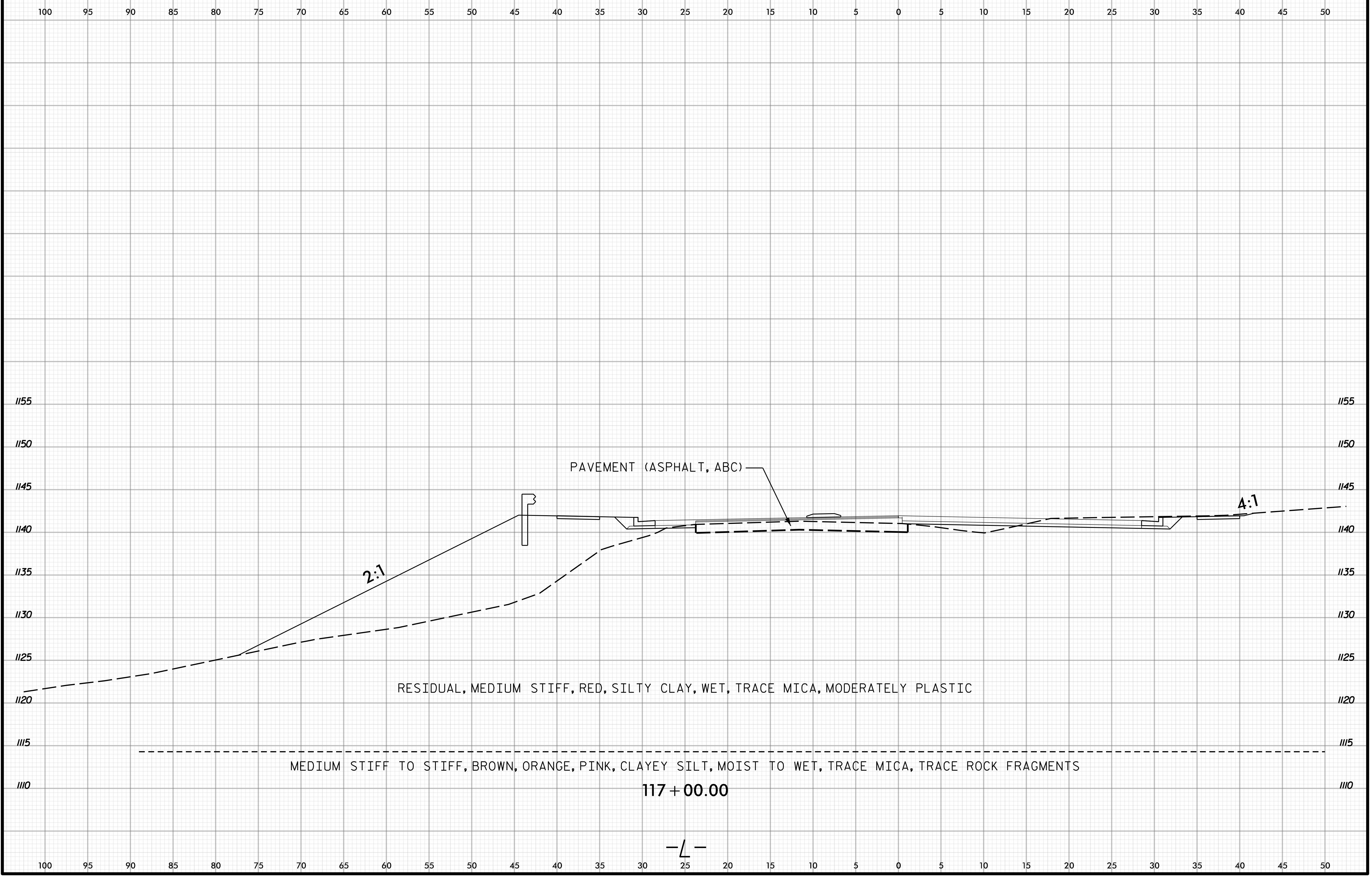
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	108

0 2.5 5

6/23/16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1155
1150
1145
1140
1135
1130
1125
1120
1115
1110
PAVEMENT (ASPHALT, ABC)
2:1
4:1
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, ORANGE, PINK, CLAYEY SILT, MOIST TO WET, TRACE MICA, TRACE ROCK FRAGMENTS

117+00.00

-L-

28-AUG-2024 08:57
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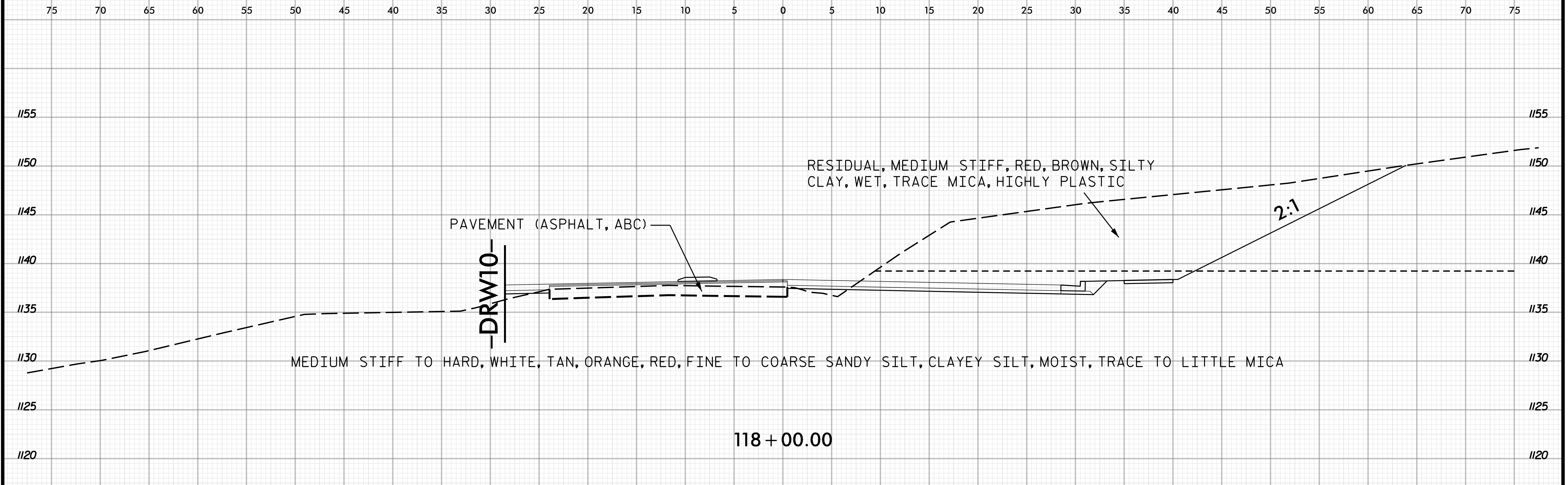
mlhartman AT W007005069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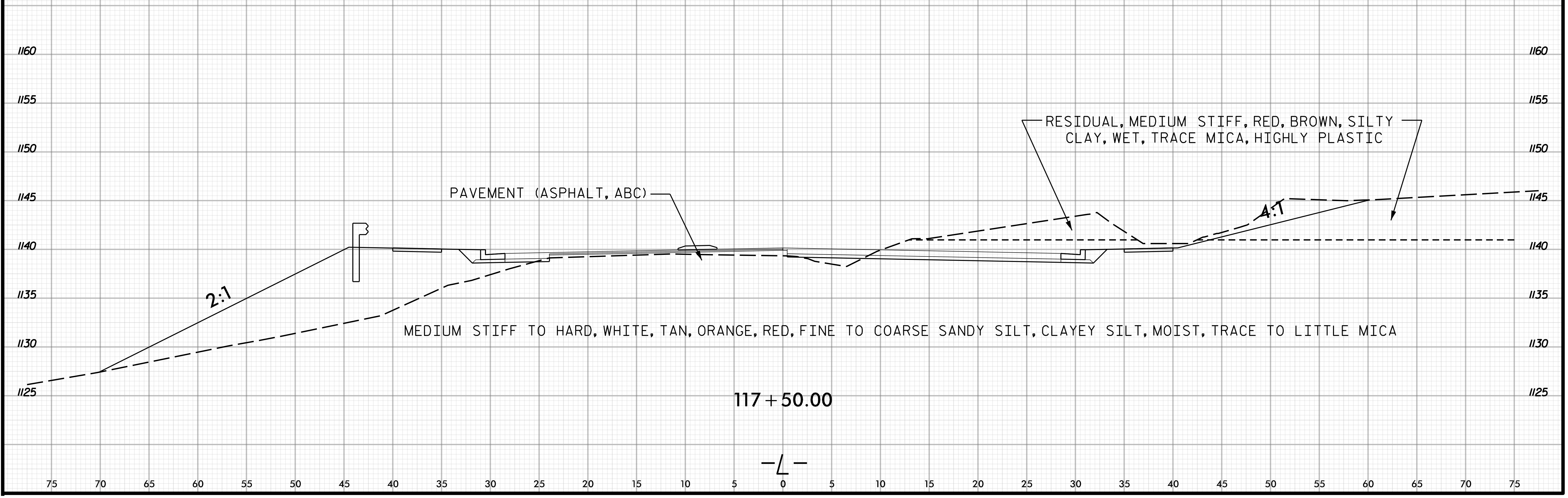
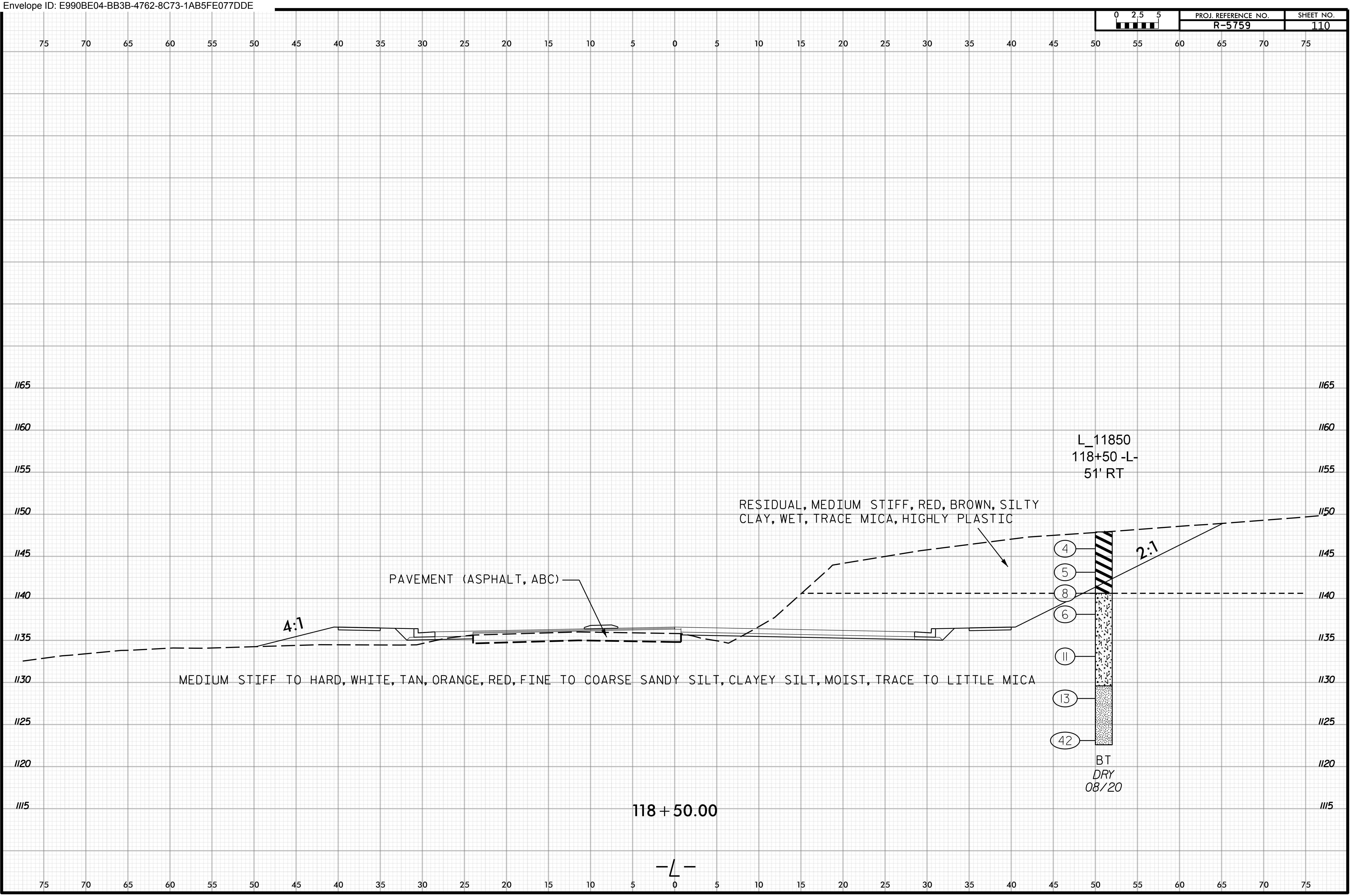
1155
1150
1145
1140
1135
1130
1125
1120
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
-DRW10-
MEDIUM STIFF TO HARD, WHITE, TAN, ORANGE, RED, FINE TO COARSE SANDY SILT, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA
118+00.00


1160
1155
1150
1145
1140
1135
1130
1125
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
2:1
MEDIUM STIFF TO HARD, WHITE, TAN, ORANGE, RED, FINE TO COARSE SANDY SILT, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA
117+50.00
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

PROJ. REFERENCE NO.	SHEET NO.
R-5759	110



6/23/16

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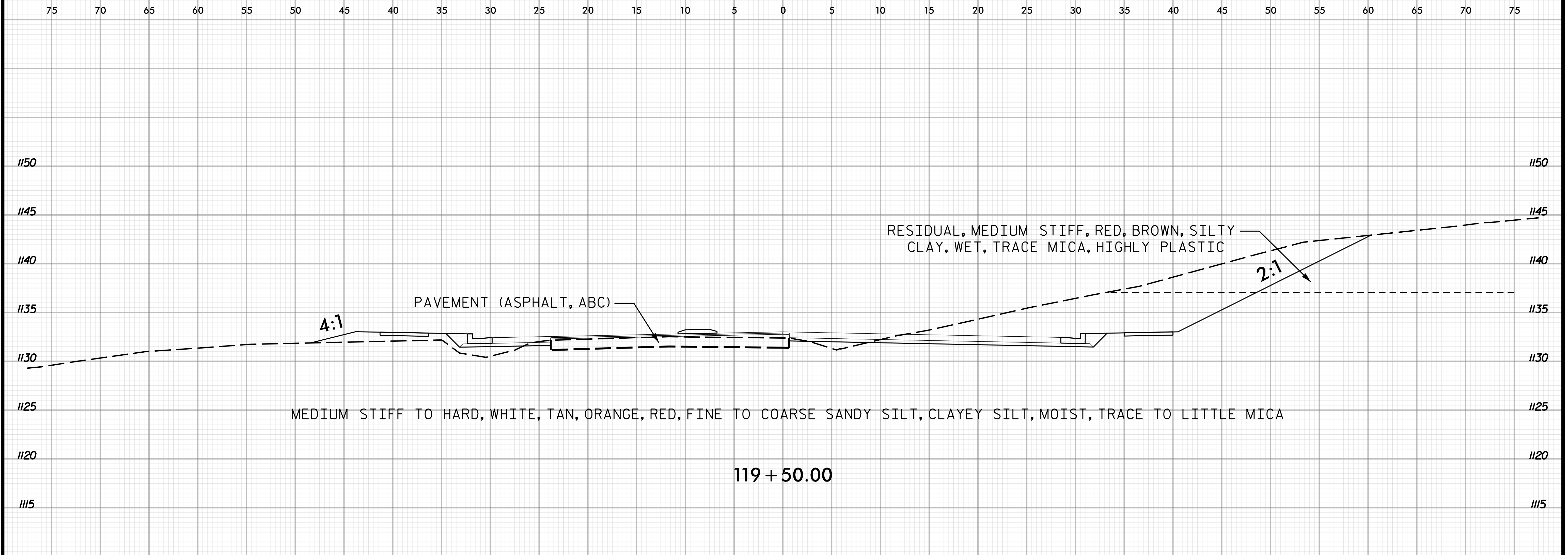
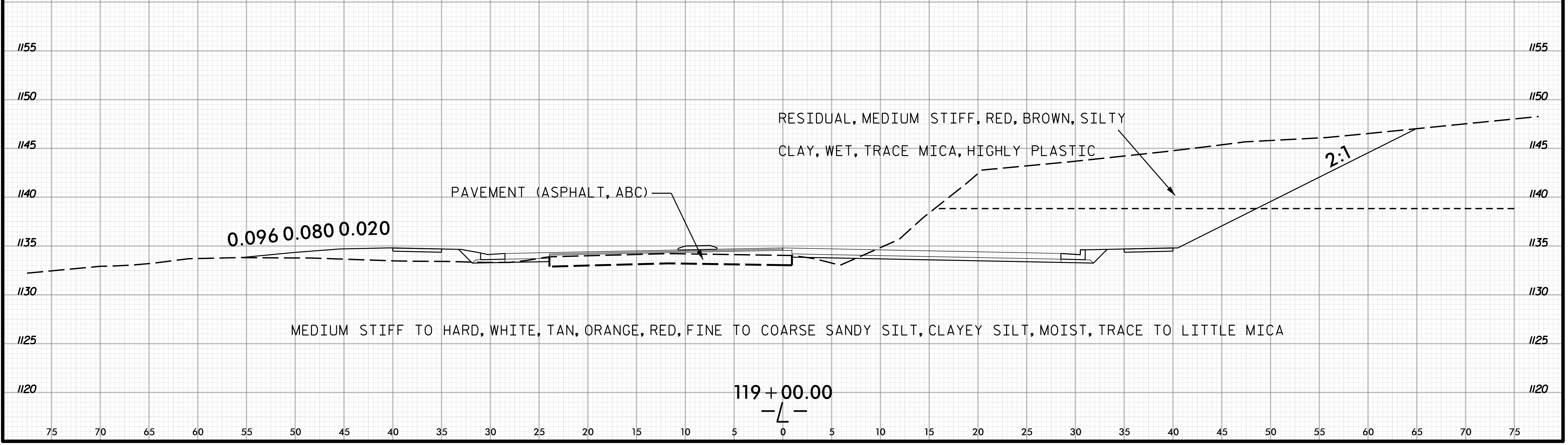
mlhartman AT W0070050699

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	111


75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
1150
1145
1140
1135
1130
1125
1120
1115
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
4:1
MEDIUM STIFF TO HARD, WHITE, TAN, ORANGE, RED, FINE TO COARSE SANDY SILT, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA

119 + 50.00


1155
1150
1145
1140
1135
1130
1125
1120
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY
CLAY, WET, TRACE MICA, HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
0.096 0.080 0.020
MEDIUM STIFF TO HARD, WHITE, TAN, ORANGE, RED, FINE TO COARSE SANDY SILT, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75

119 + 00.00
-L-

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mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	112

6/23/16

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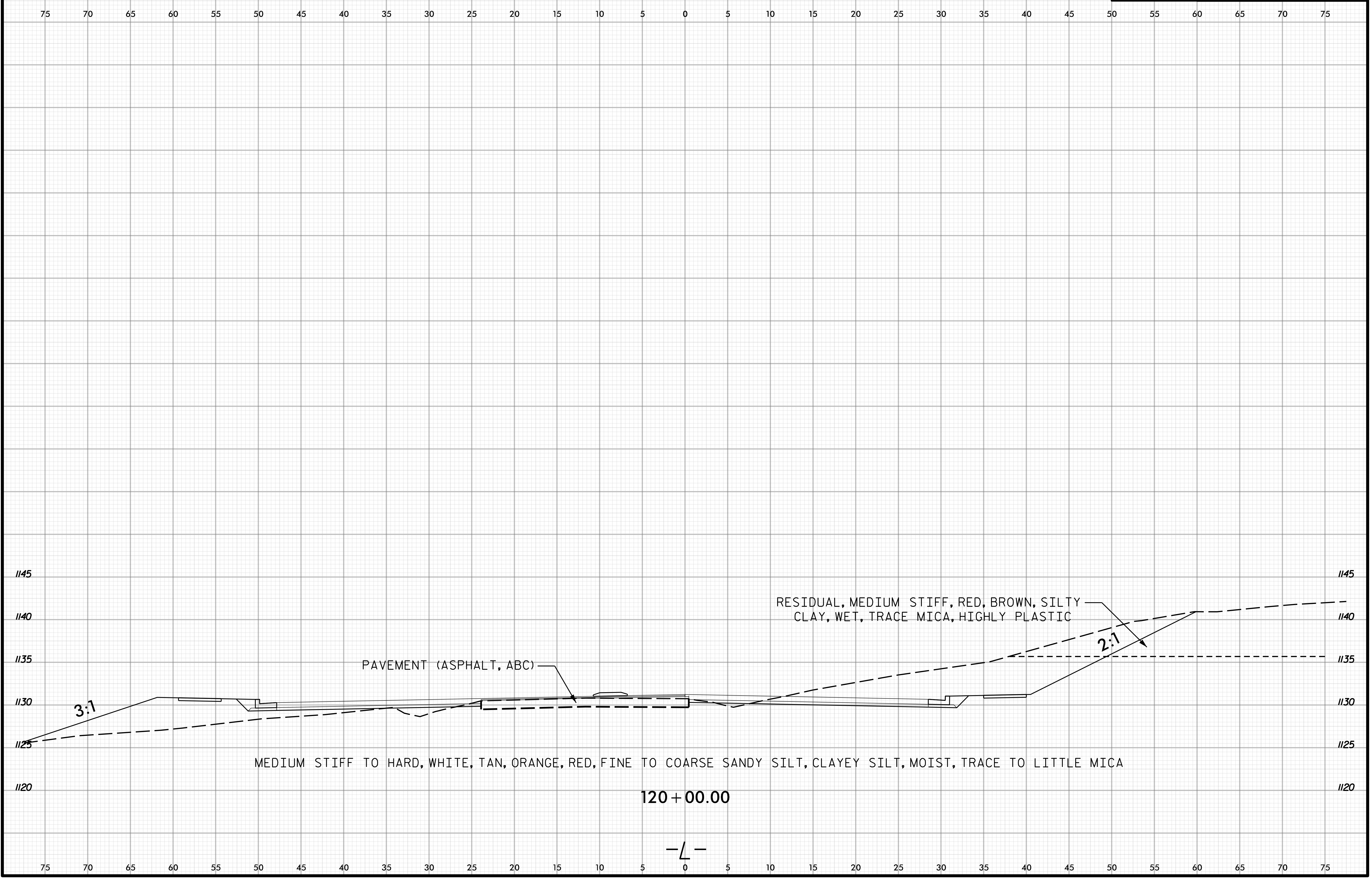
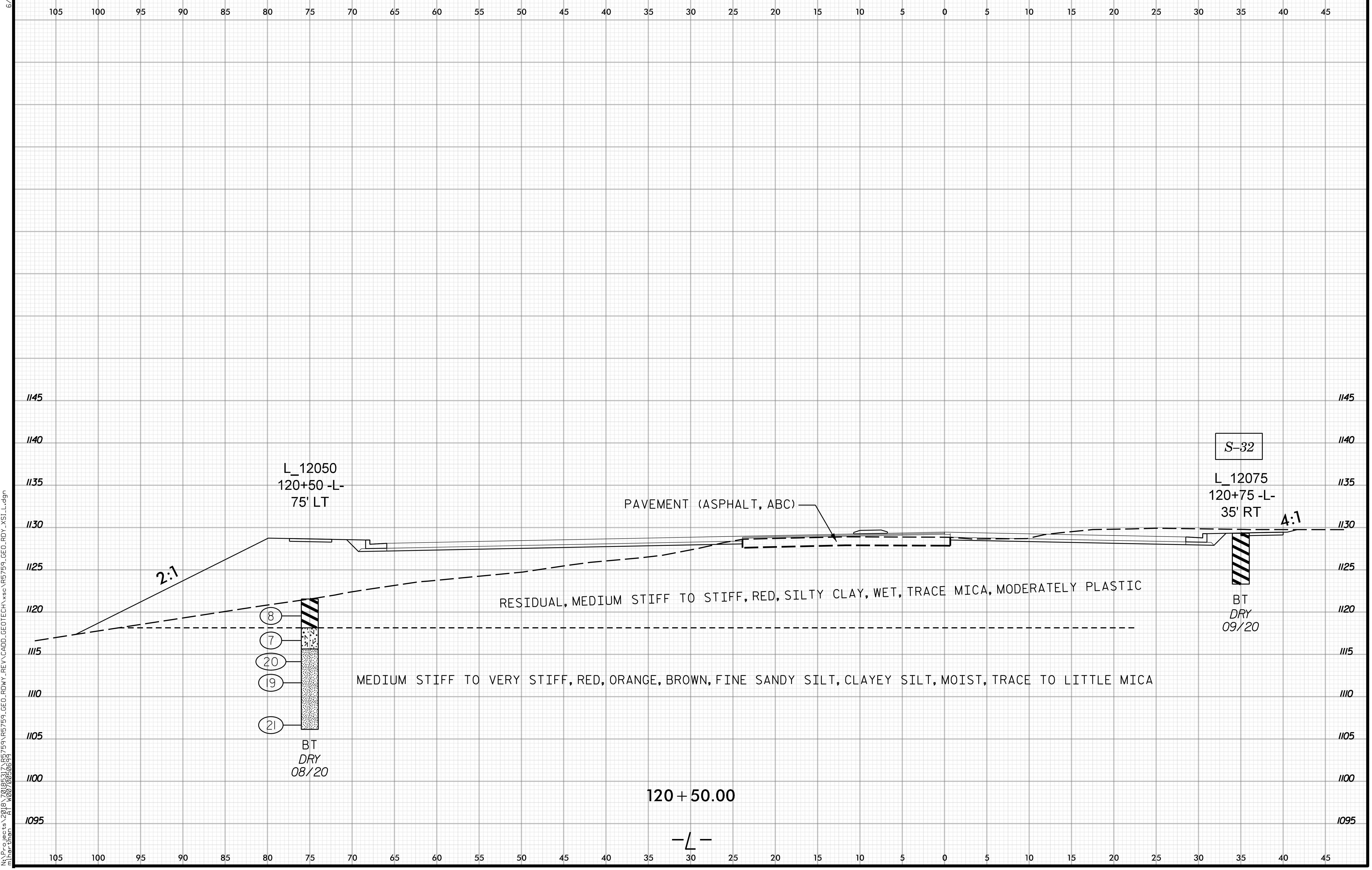
mlhartman AT W0070050699


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1145
1140
1135
1130
1125
1120
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
3:1
MEDIUM STIFF TO HARD, WHITE, TAN, ORANGE, RED, FINE TO COARSE SANDY SILT, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA
120+00.00
-L-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	113



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6/23/16

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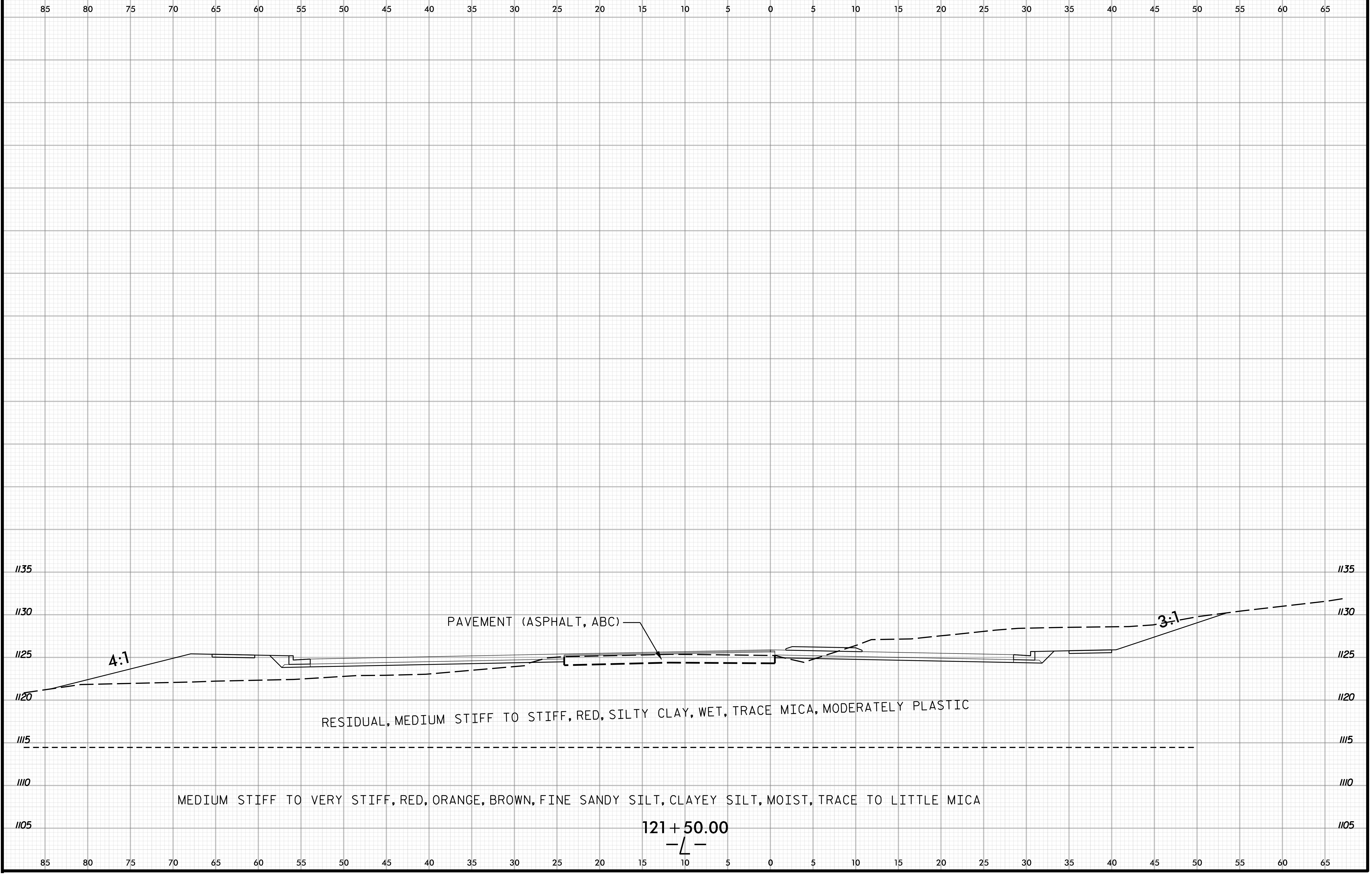
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
1135
1130
1125
1120
1115
1110
1105
4:1
3:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
MEDIUM STIFF TO VERY STIFF, RED, ORANGE, BROWN, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA
121+50.00
-L-

28-AUG-2024 08:57
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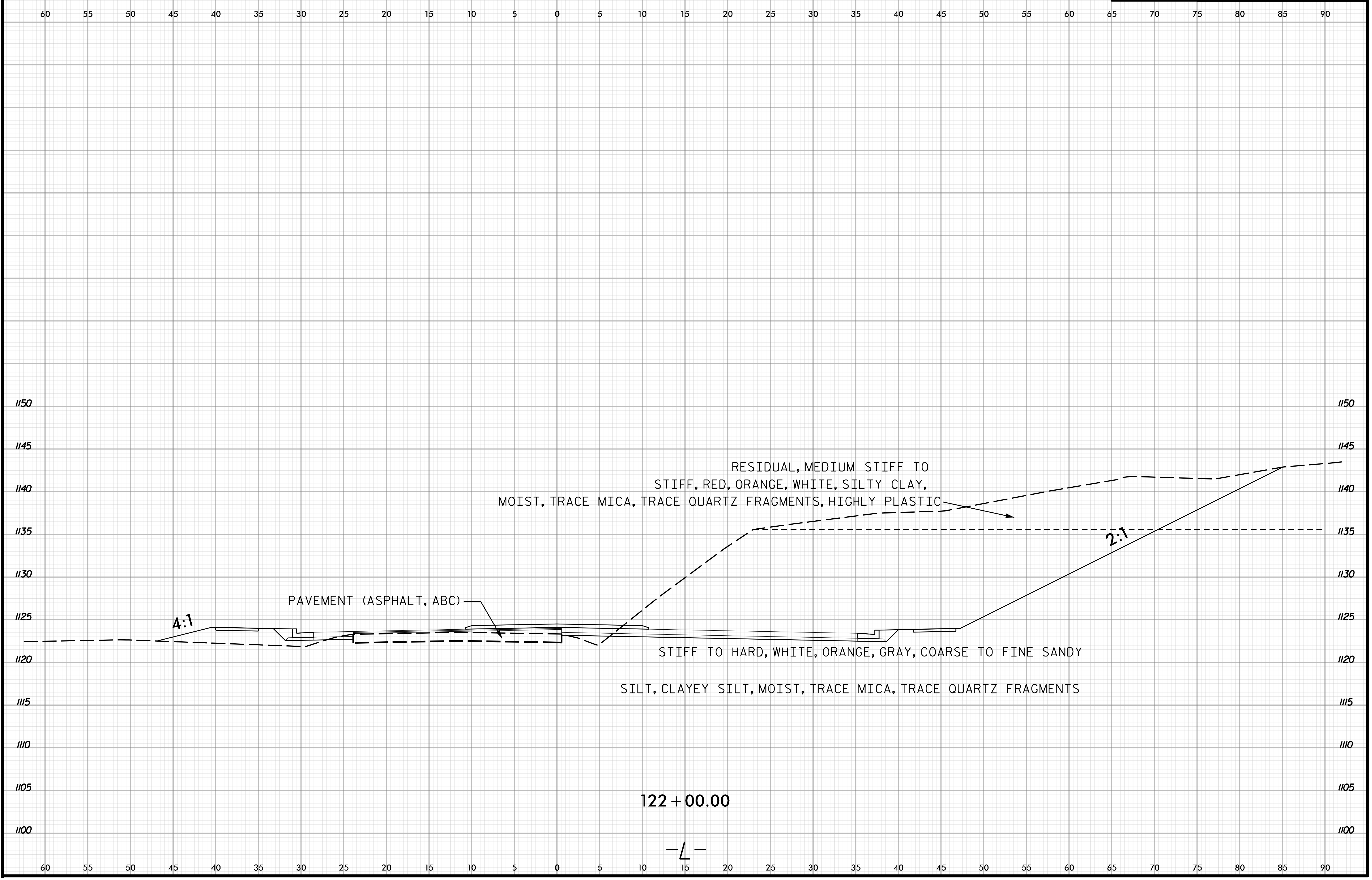
mlhartman AT W0070050699

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	115


60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
1150
1145
1140
1135
1130
1125
1120
1115
1110
1105
1100
RESIDUAL, MEDIUM STIFF TO
STIFF, RED, ORANGE, WHITE, SILTY CLAY,
MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS, HIGHLY PLASTIC
2:1
4:1
PAVEMENT (ASPHALT, ABC)
STIFF TO HARD, WHITE, ORANGE, GRAY, COARSE TO FINE SANDY
SILT, CLAYEY SILT, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS
122+00.00
-L-

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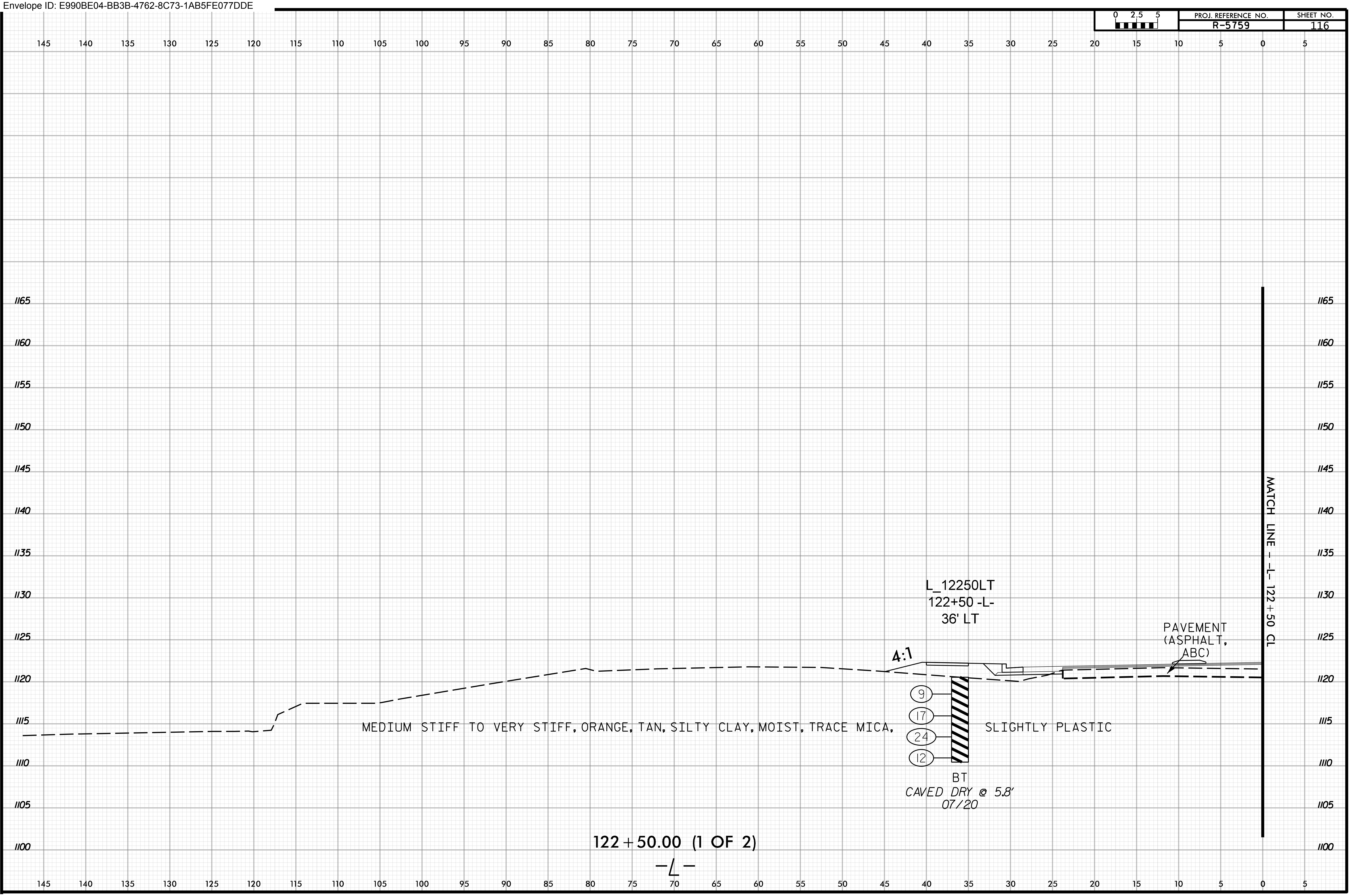
mlhartman AT W0070050699



122+50.00 (1 OF 2)

-L-

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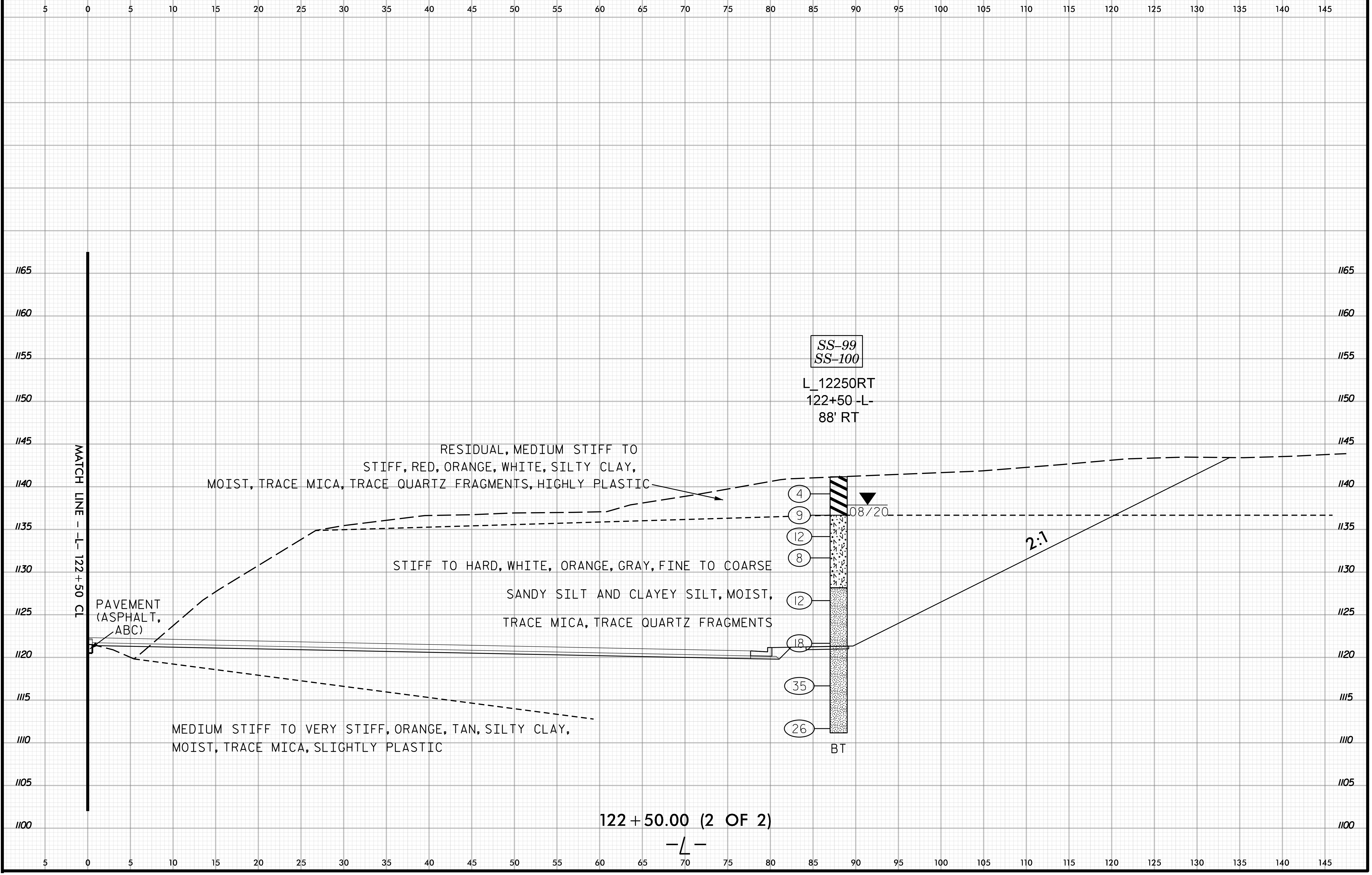
mlhartman AT W0070050699



SS-99
SS-100
L_12250RT
122+50 -L-
88' RT
MATCH LINE -L- 122+50 CL
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF TO STIFF, RED, ORANGE, WHITE, SILTY CLAY, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS, HIGHLY PLASTIC
STIFF TO HARD, WHITE, ORANGE, GRAY, FINE TO COARSE SANDY SILT AND CLAYEY SILT, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS
MEDIUM STIFF TO VERY STIFF, ORANGE, TAN, SILTY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC
4
9
12
8
12
18
35
26
BT
08/20
2:1
1165
1160
1155
1150
1145
1140
1135
1130
1125
1120
1115
1110
1105
1100
5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145

122+50.00 (2 OF 2)

-L-

6/23/16
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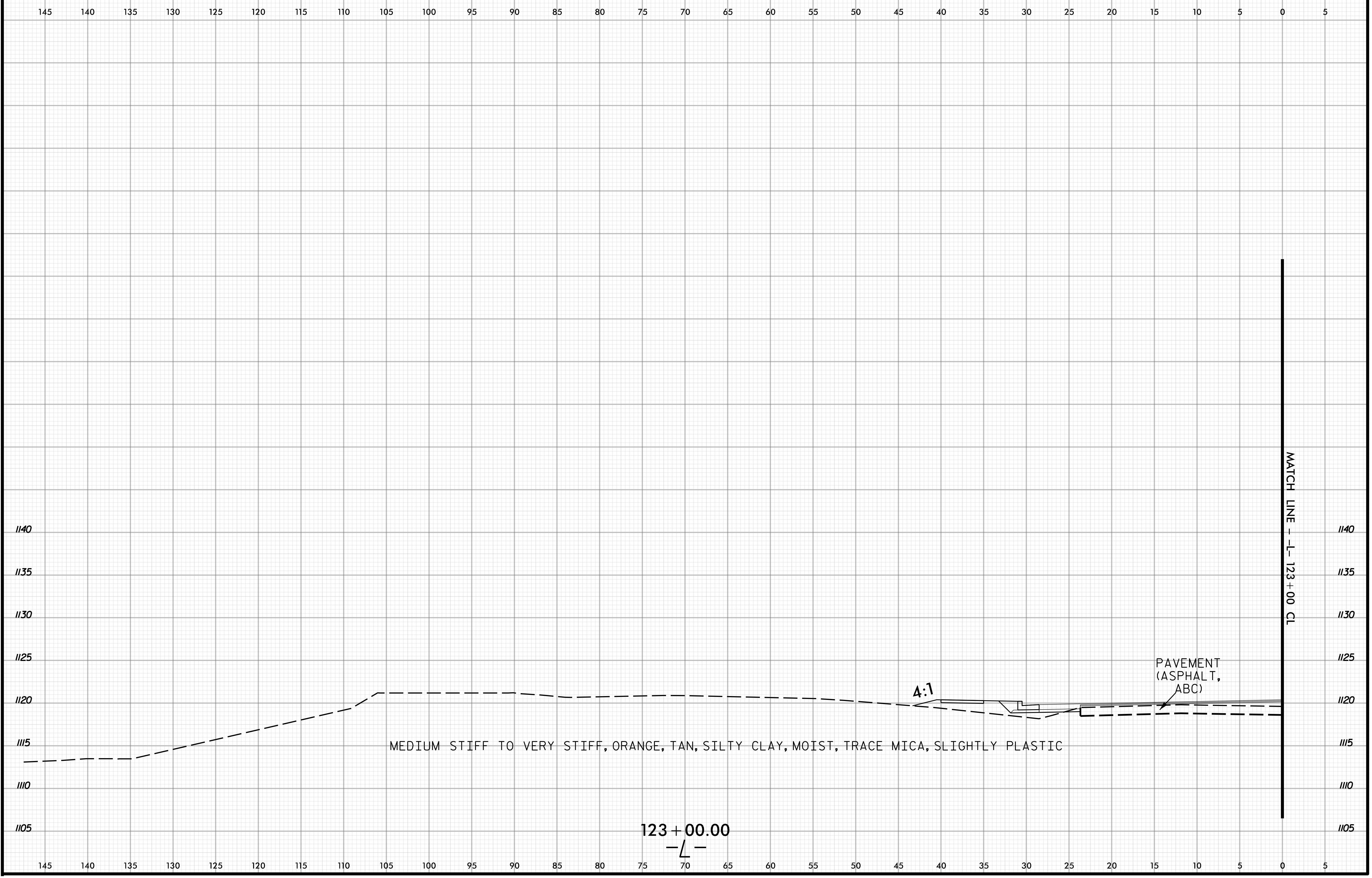
mlhartman AT W007005069

PROJ. REFERENCE NO.	SHEET NO.
R-5759	118

6/23/16



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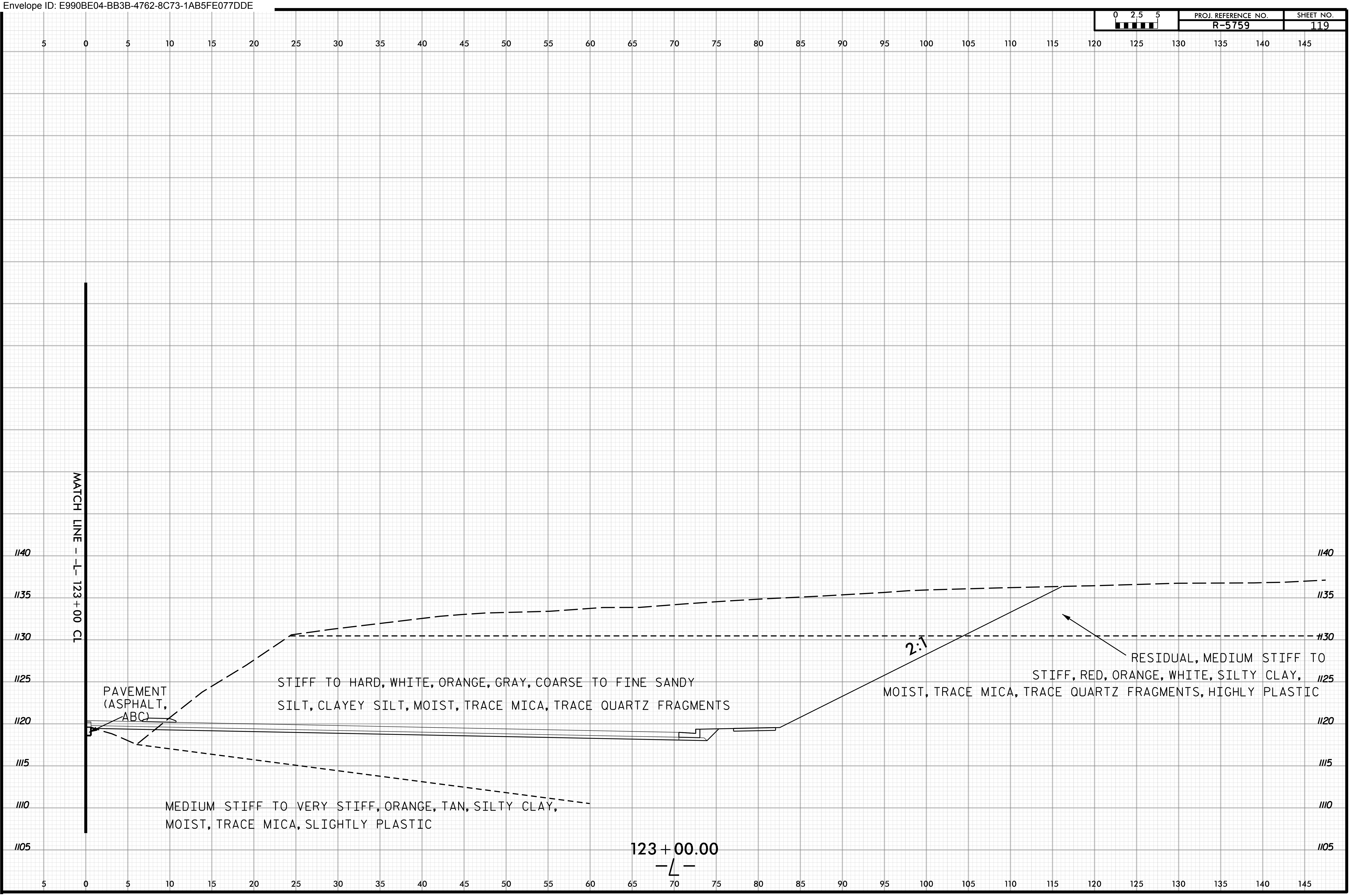
mlhartman AT W0070050699

6/23/16



STIFF TO HARD, WHITE, ORANGE, GRAY, COARSE TO FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS

RESIDUAL, MEDIUM STIFF TO STIFF, RED, ORANGE, WHITE, SILTY CLAY, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS, HIGHLY PLASTIC

MEDIUM STIFF TO VERY STIFF, ORANGE, TAN, SILTY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC

28-AUG-2024 08:57
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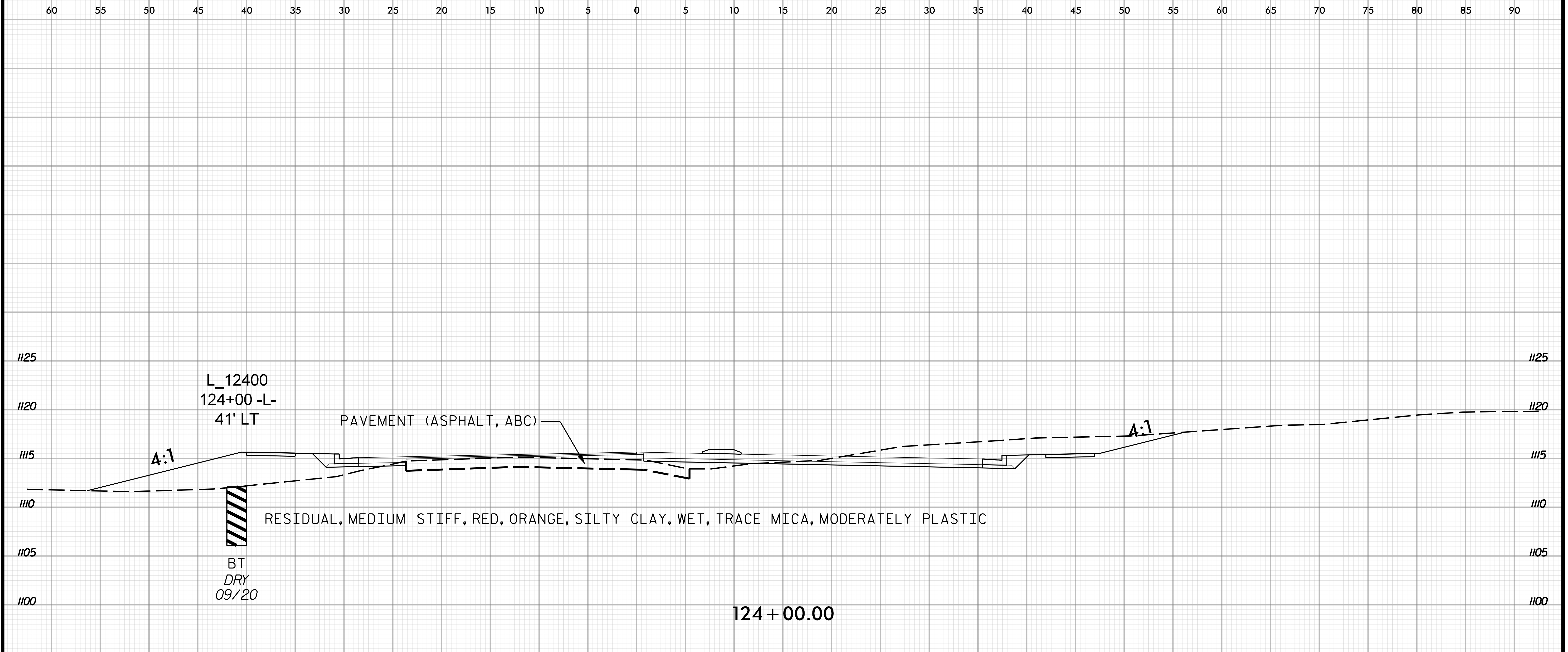
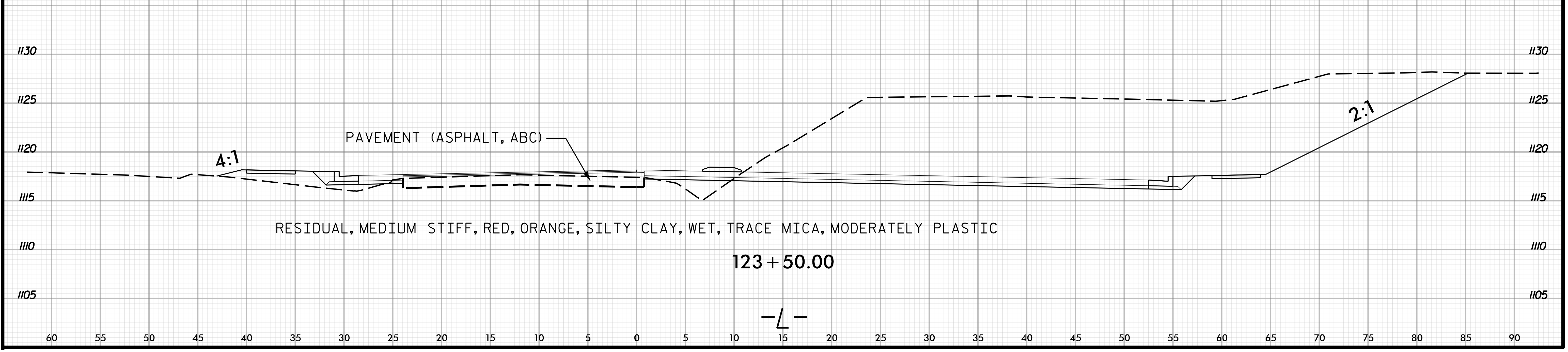
mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	120



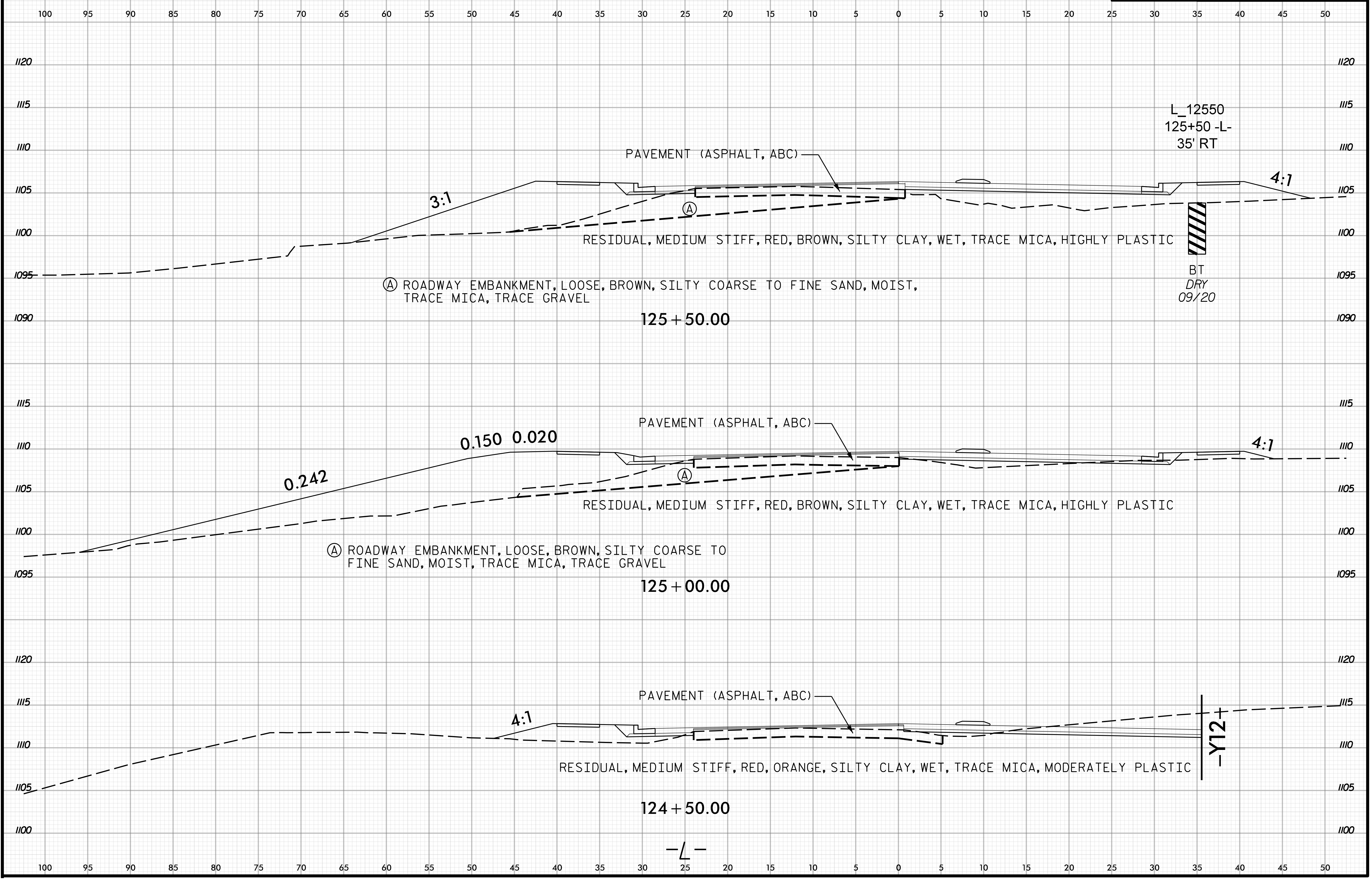
124+00.00



123+50.00

-L-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	121


100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50
1120
1115
1110
1105
1100
1095
1090
L_12550
125+50 -L-
35' RT
PAVEMENT (ASPHALT, ABC)
3:1
4:1
Ⓐ
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
BT
DRY
09/20
Ⓐ ROADWAY EMBANKMENT, LOOSE, BROWN, SILTY COARSE TO FINE SAND, MOIST, TRACE MICA, TRACE GRAVEL
125+50.00
1115
1110
1105
1100
1095
PAVEMENT (ASPHALT, ABC)
0.150 0.020
0.242
4:1
Ⓐ
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
Ⓐ ROADWAY EMBANKMENT, LOOSE, BROWN, SILTY COARSE TO FINE SAND, MOIST, TRACE MICA, TRACE GRAVEL
125+00.00
1120
1115
1110
1105
1100
PAVEMENT (ASPHALT, ABC)
4:1
-Y12-
RESIDUAL, MEDIUM STIFF, RED, ORANGE, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
124+50.00
-L-
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

6/23/16

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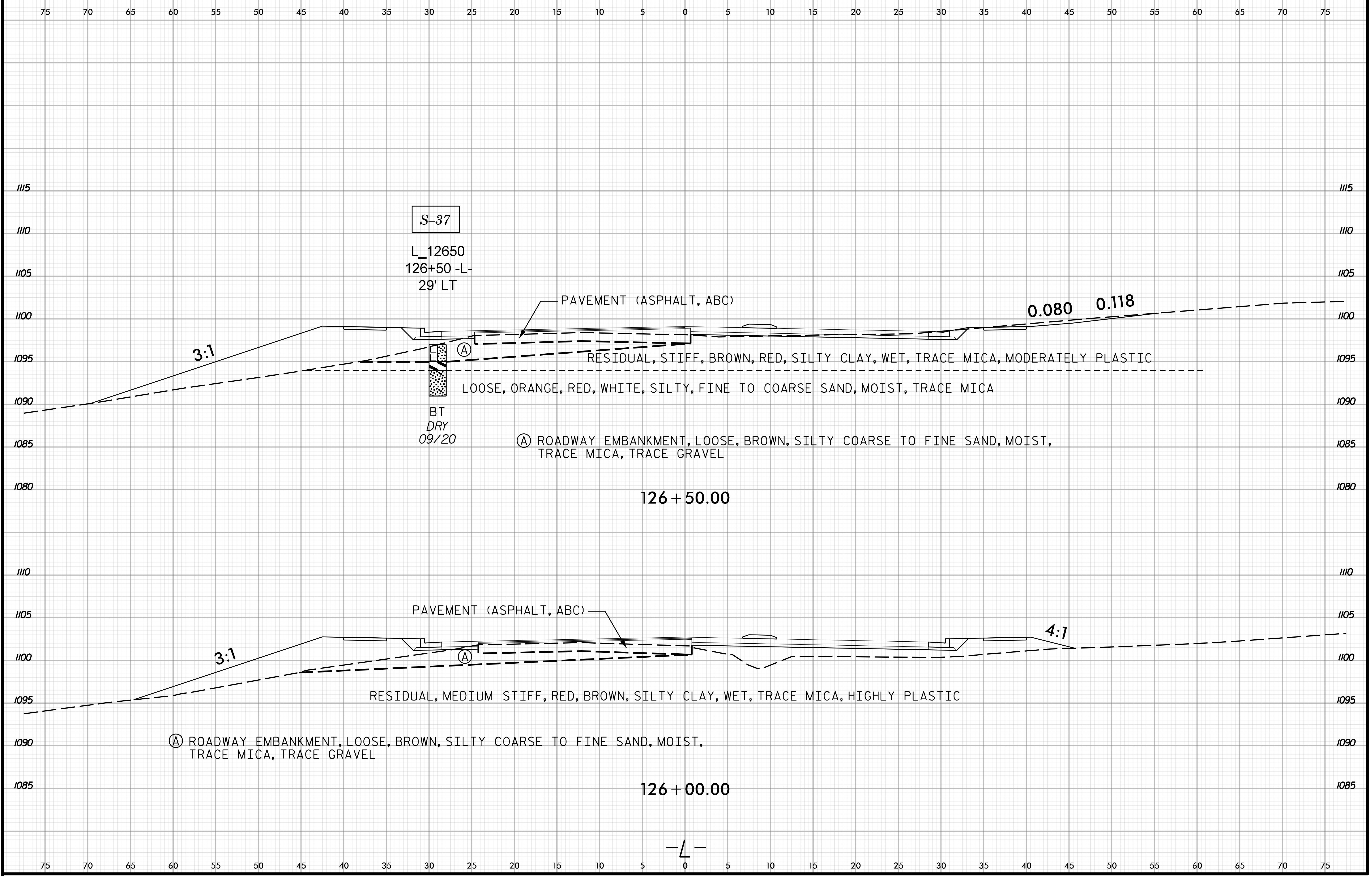
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	122


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1115
1110
1105
1100
1095
1090
1085
1080
S-37
L_12650
126+50 -L-
29' LT
PAVEMENT (ASPHALT, ABC)
0.080
0.118
3:1
Ⓐ
RESIDUAL, STIFF, BROWN, RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
LOOSE, ORANGE, RED, WHITE, SILTY, FINE TO COARSE SAND, MOIST, TRACE MICA
BT
DRY
09/20
Ⓐ ROADWAY EMBANKMENT, LOOSE, BROWN, SILTY COARSE TO FINE SAND, MOIST, TRACE MICA, TRACE GRAVEL
1110
1105
1100
1095
1090
1085
PAVEMENT (ASPHALT, ABC)
3:1
4:1
Ⓐ
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
Ⓐ ROADWAY EMBANKMENT, LOOSE, BROWN, SILTY COARSE TO FINE SAND, MOIST, TRACE MICA, TRACE GRAVEL
-L-

126+50.00

126+00.00

6/23/16

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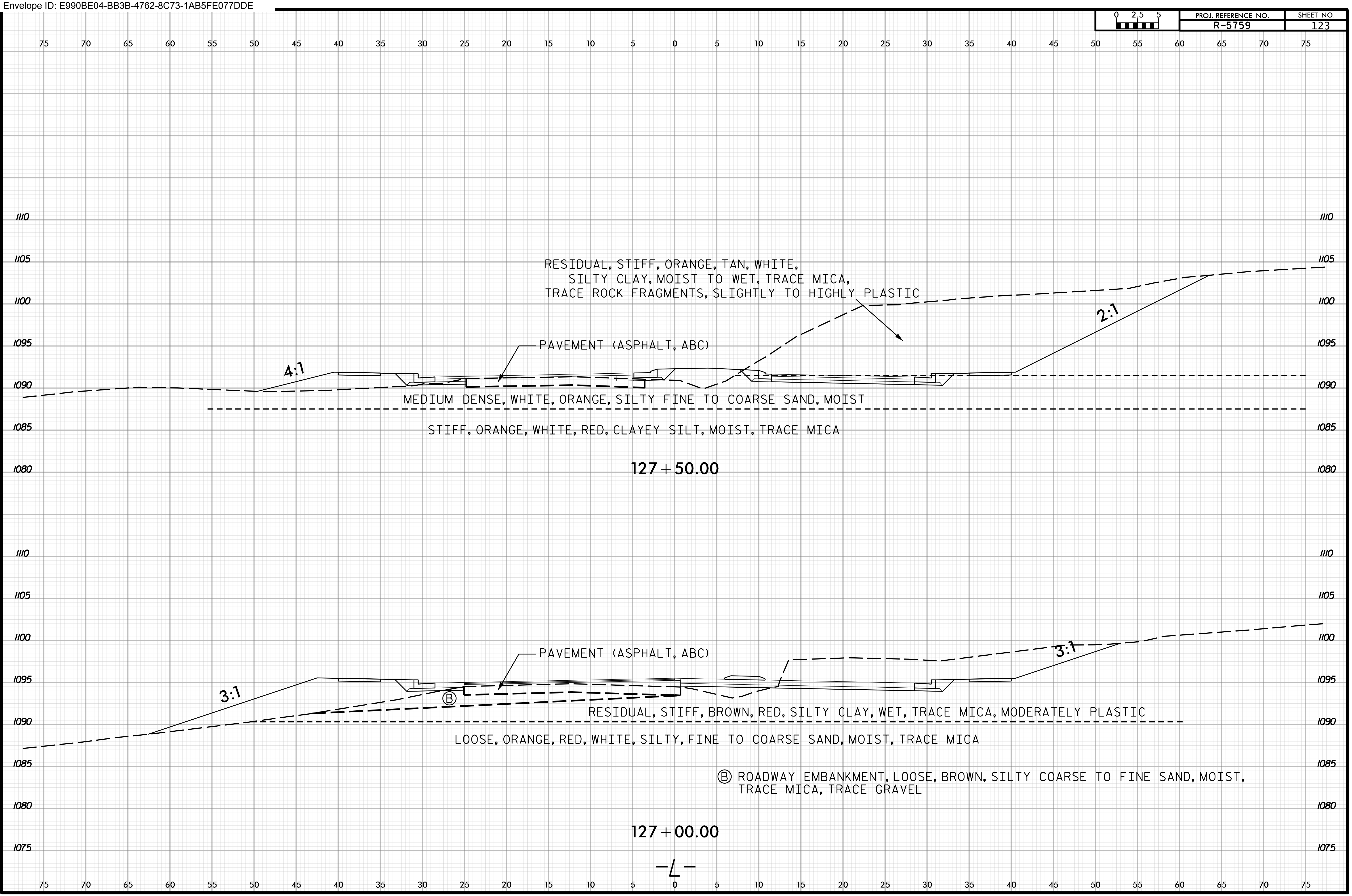
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	123


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1110
1105
1100
1095
1090
1085
1080
RESIDUAL, STIFF, ORANGE, TAN, WHITE,
SILTY CLAY, MOIST TO WET, TRACE MICA,
TRACE ROCK FRAGMENTS, SLIGHTLY TO HIGHLY PLASTIC
2:1
PAVEMENT (ASPHALT, ABC)
4:1
MEDIUM DENSE, WHITE, ORANGE, SILTY FINE TO COARSE SAND, MOIST
STIFF, ORANGE, WHITE, RED, CLAYEY SILT, MOIST, TRACE MICA
127+50.00
1110
1105
1100
1095
1090
1085
1080
1075
PAVEMENT (ASPHALT, ABC)
3:1
3:1
Ⓑ
RESIDUAL, STIFF, BROWN, RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
LOOSE, ORANGE, RED, WHITE, SILTY, FINE TO COARSE SAND, MOIST, TRACE MICA
Ⓑ ROADWAY EMBANKMENT, LOOSE, BROWN, SILTY COARSE TO FINE SAND, MOIST,
TRACE MICA, TRACE GRAVEL
127+00.00
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

6/23/16

28-AUG-2024 08:57
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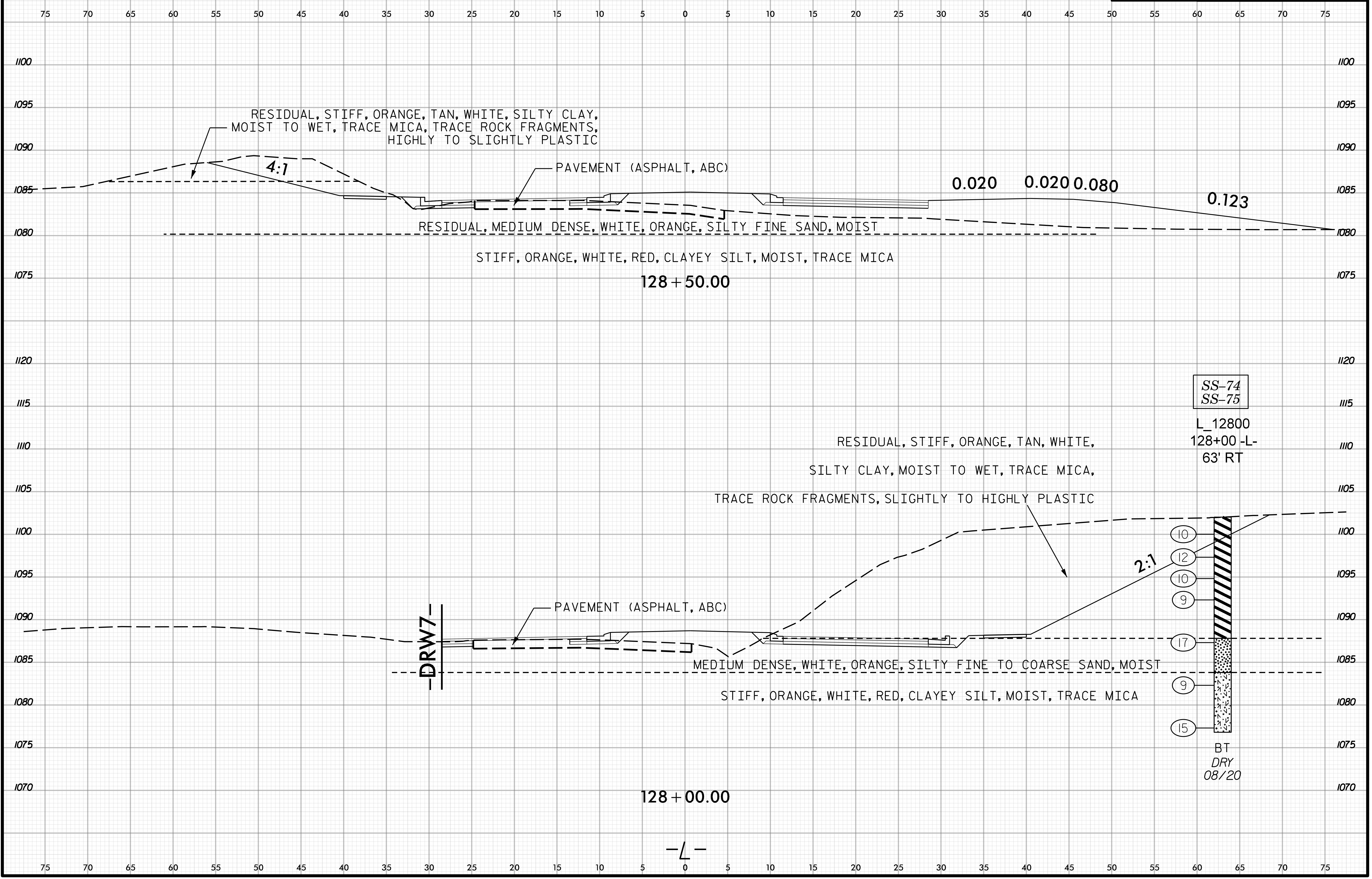
mlhartman AT W0070050699


RESIDUAL, STIFF, ORANGE, TAN, WHITE, SILTY CLAY, MOIST TO WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY TO SLIGHTLY PLASTIC
4:1
PAVEMENT (ASPHALT, ABC)
0.020
0.020
0.080
0.123
RESIDUAL, MEDIUM DENSE, WHITE, ORANGE, SILTY FINE SAND, MOIST
STIFF, ORANGE, WHITE, RED, CLAYEY SILT, MOIST, TRACE MICA
128+50.00
SS-74
SS-75
L_12800
128+00 -L-
63' RT
RESIDUAL, STIFF, ORANGE, TAN, WHITE, SILTY CLAY, MOIST TO WET, TRACE MICA, TRACE ROCK FRAGMENTS, SLIGHTLY TO HIGHLY PLASTIC
2:1
10
12
10
9
17
9
15
PAVEMENT (ASPHALT, ABC)
-DRW7-
MEDIUM DENSE, WHITE, ORANGE, SILTY FINE TO COARSE SAND, MOIST
STIFF, ORANGE, WHITE, RED, CLAYEY SILT, MOIST, TRACE MICA
BT
DRY
08/20
128+00.00
-L-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1100 1095 1090 1085 1080 1075
1120 1115 1110 1105 1100 1095 1090 1085 1080 1075 1070

6/23/16

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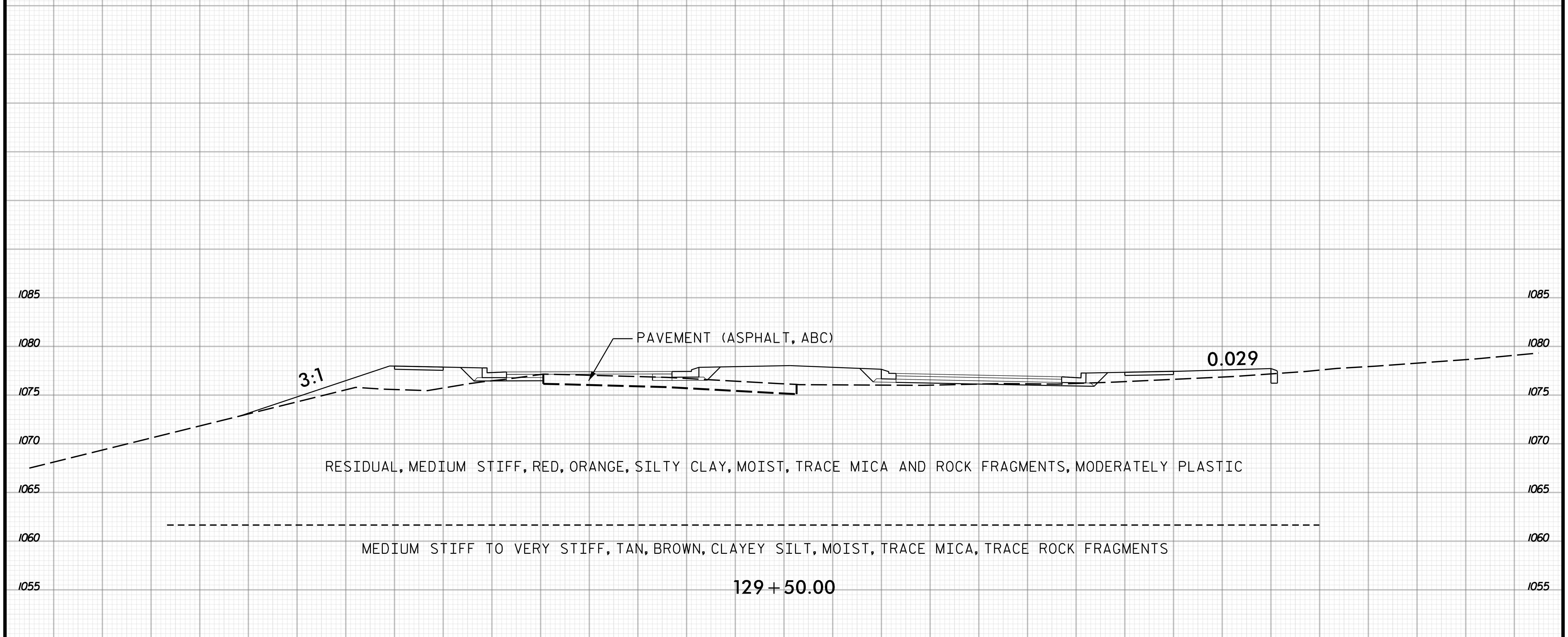
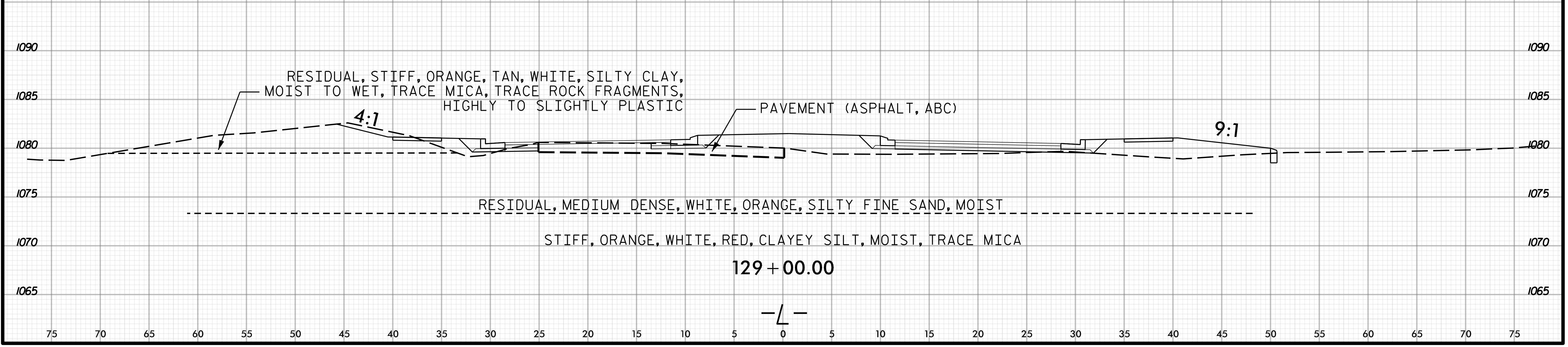
mlhartman AT W007005069

6/23/16


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1085
1080
1075
1070
1065
1060
1055
PAVEMENT (ASPHALT, ABC)
3:1
0.029
RESIDUAL, MEDIUM STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA AND ROCK FRAGMENTS, MODERATELY PLASTIC
MEDIUM STIFF TO VERY STIFF, TAN, BROWN, CLAYEY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS

129+50.00


1090
1085
1080
1075
1070
1065
RESIDUAL, STIFF, ORANGE, TAN, WHITE, SILTY CLAY,
MOIST TO WET, TRACE MICA, TRACE ROCK FRAGMENTS,
HIGHLY TO SLIGHTLY PLASTIC
4:1
PAVEMENT (ASPHALT, ABC)
9:1
RESIDUAL, MEDIUM DENSE, WHITE, ORANGE, SILTY FINE SAND, MOIST
STIFF, ORANGE, WHITE, RED, CLAYEY SILT, MOIST, TRACE MICA
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

129+00.00

-L-

28-AUG-2024 08:57
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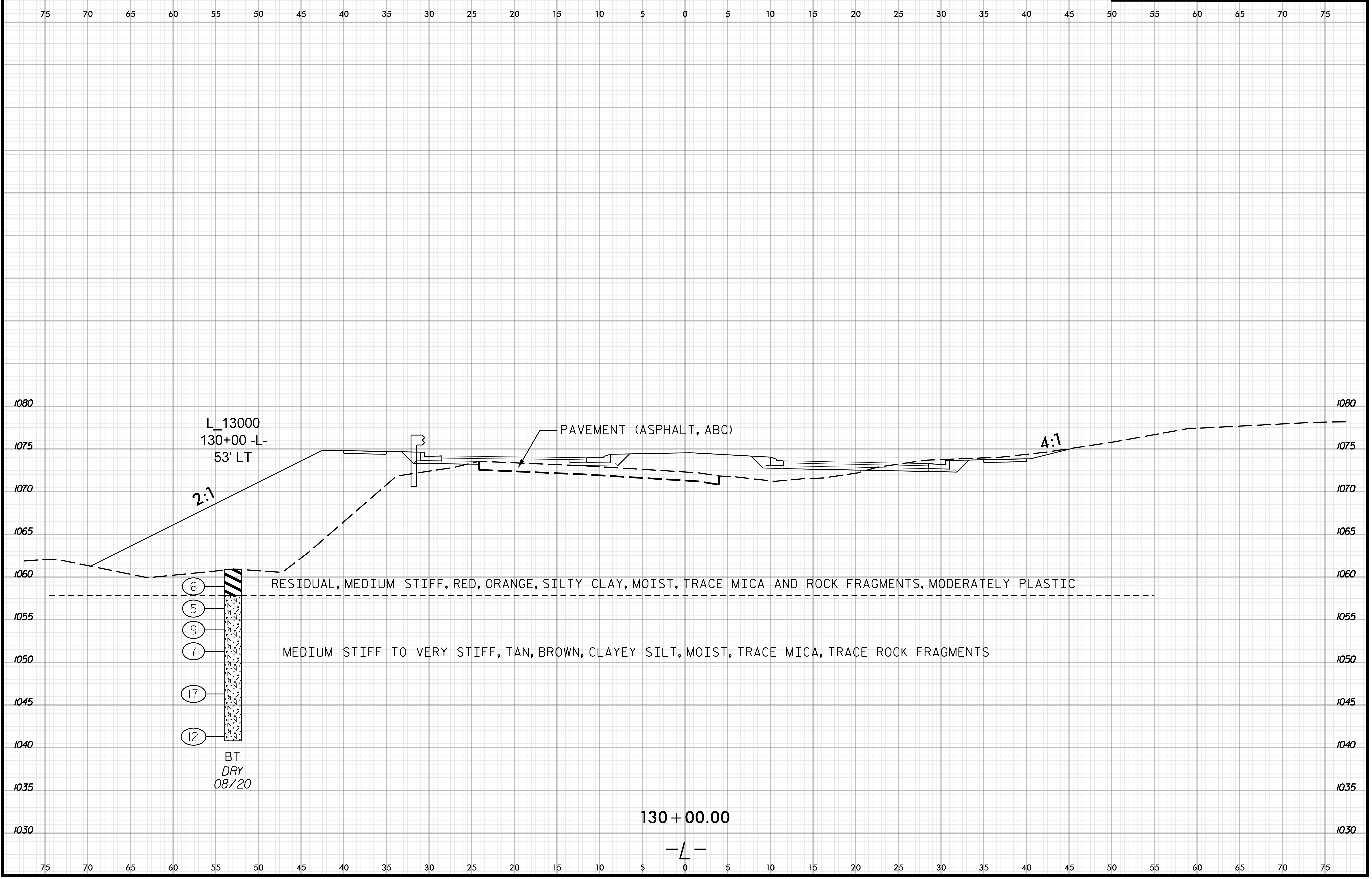
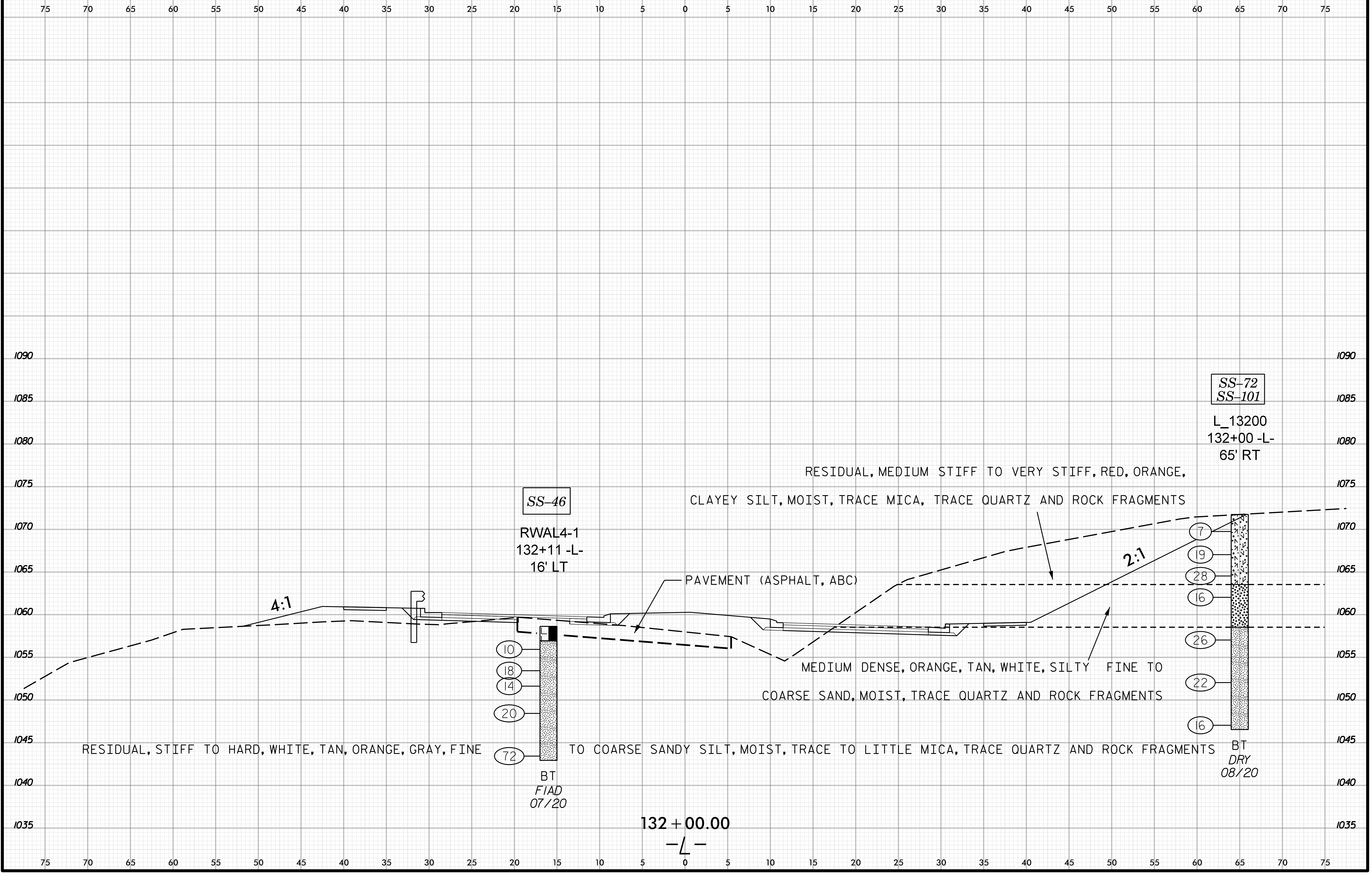
mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	126



6/23/16


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1090
1085
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
SS-46
RWAL4-1
132+11 -L-
16' LT
SS-72
SS-101
L_13200
132+00 -L-
65' RT
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE,
CLAYEY SILT, MOIST, TRACE MICA, TRACE QUARTZ AND ROCK FRAGMENTS
4:1
2:1
PAVEMENT (ASPHALT, ABC)
MEDIUM DENSE, ORANGE, TAN, WHITE, SILTY FINE TO
COARSE SAND, MOIST, TRACE QUARTZ AND ROCK FRAGMENTS
RESIDUAL, STIFF TO HARD, WHITE, TAN, ORANGE, GRAY, FINE TO COARSE SANDY SILT, MOIST, TRACE TO LITTLE MICA, TRACE QUARTZ AND ROCK FRAGMENTS
10
18
14
20
72
BT
FIAD
07/20
7
19
28
16
26
22
16
BT
DRY
08/20
132+00.00
-L-

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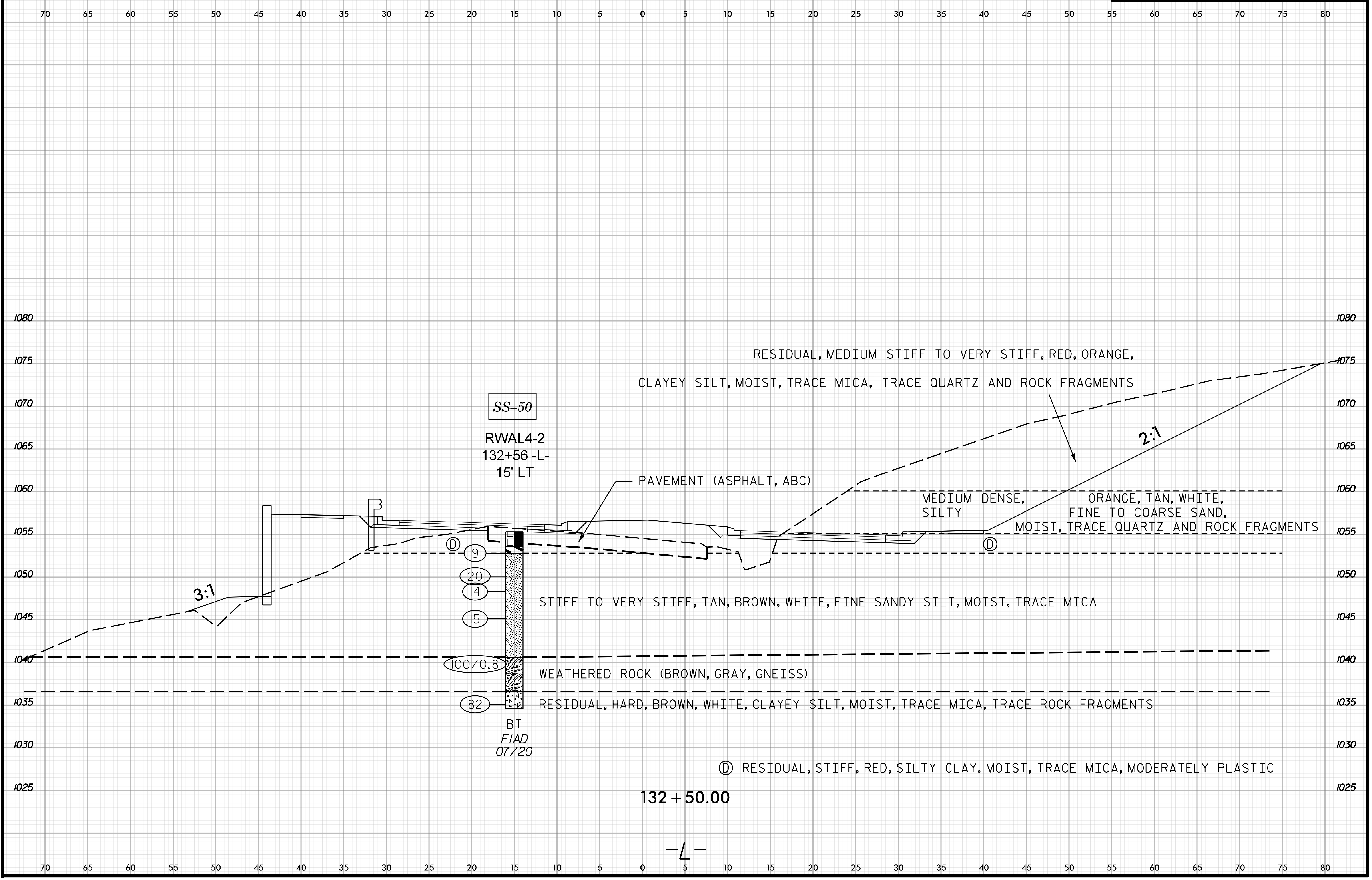
mlhartman AT W00700S0699

6/23/16



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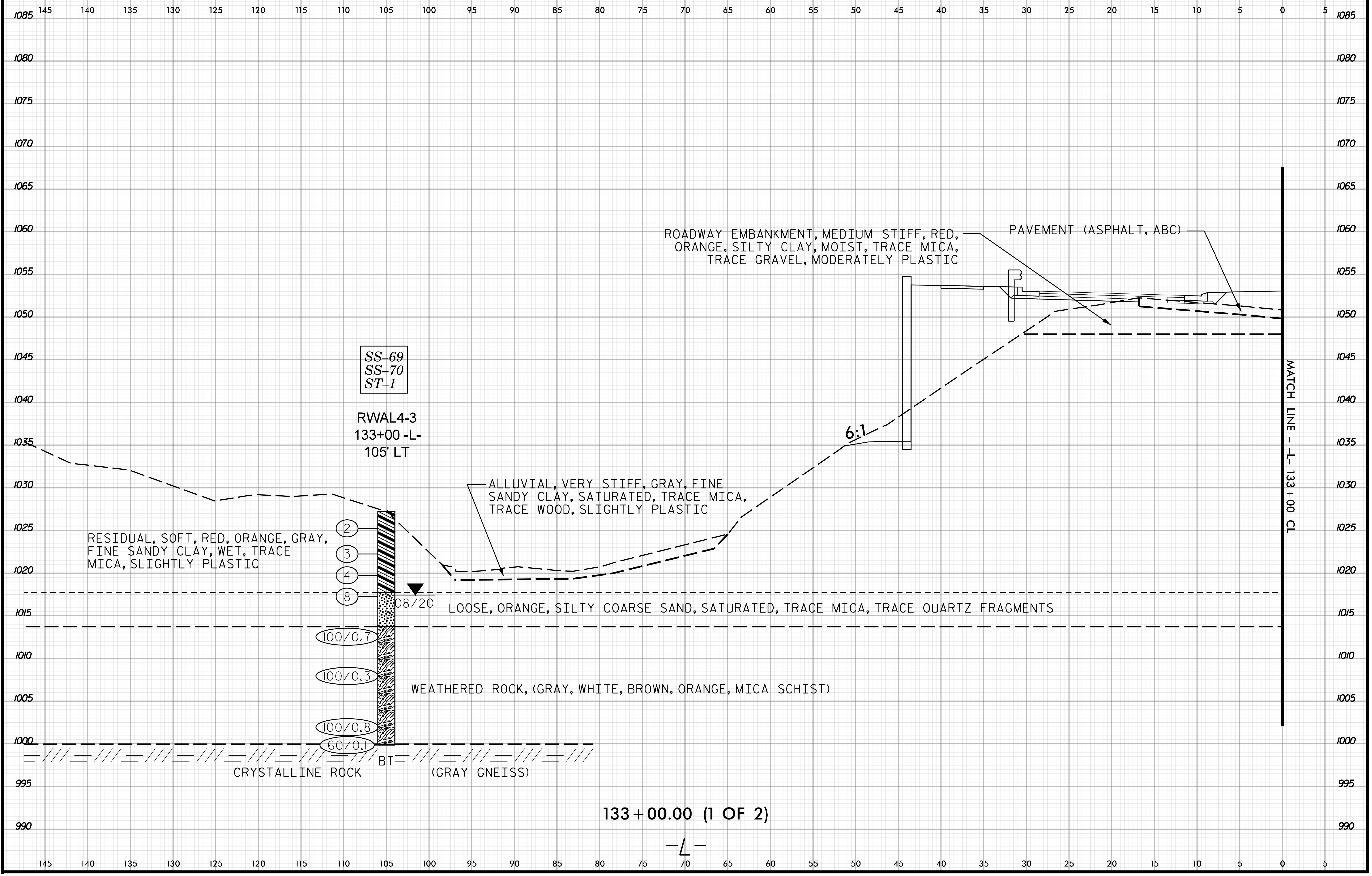
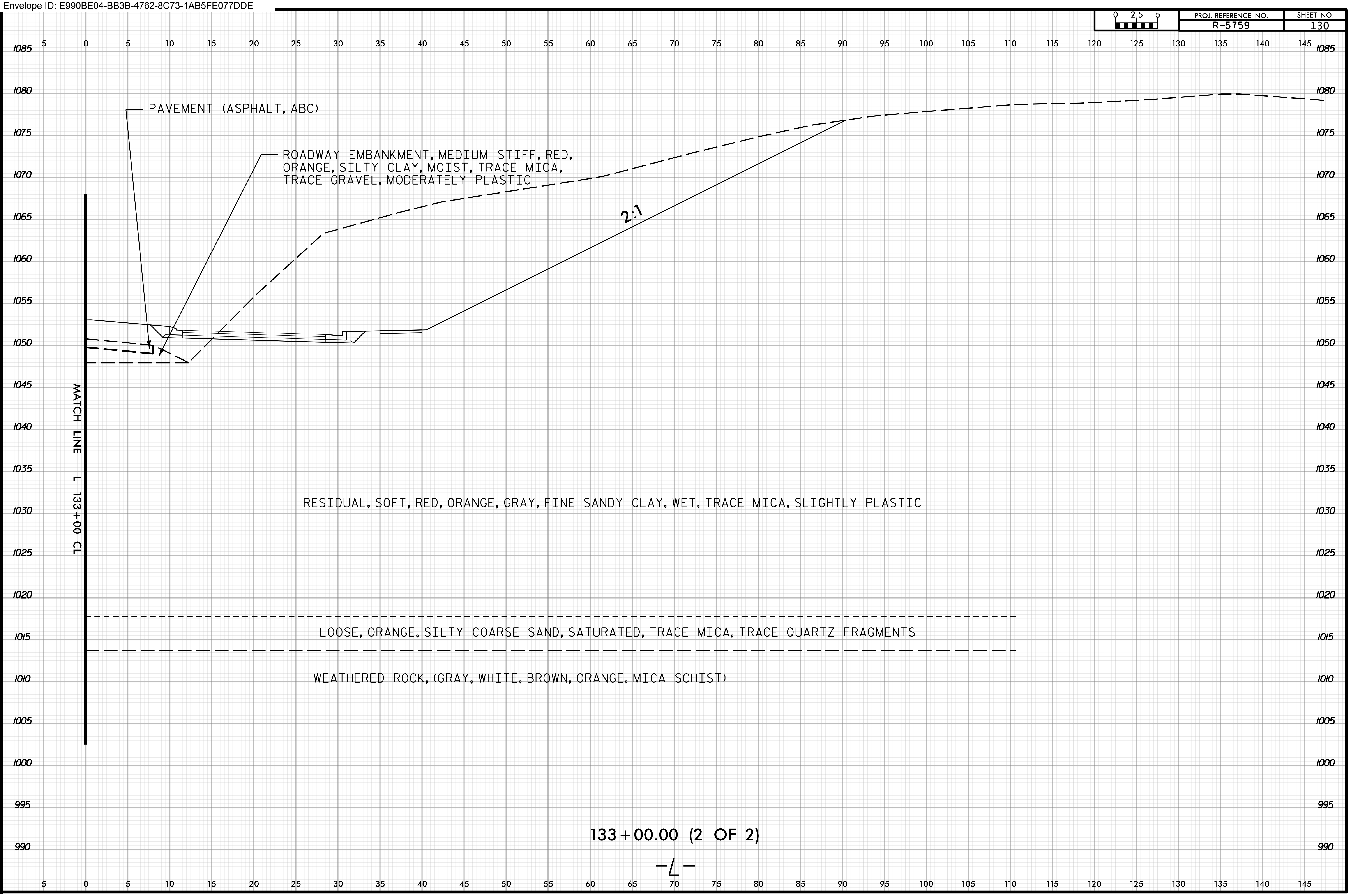
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE,
CLAYEY SILT, MOIST, TRACE MICA, TRACE QUARTZ AND ROCK FRAGMENTS
SS-50
RWAL4-2
132+56 -L-
15' LT
2:1
PAVEMENT (ASPHALT, ABC)
MEDIUM DENSE, SILTY
ORANGE, TAN, WHITE, FINE TO COARSE SAND, MOIST, TRACE QUARTZ AND ROCK FRAGMENTS
Ⓓ
9
Ⓓ
20
14
3:1
STIFF TO VERY STIFF, TAN, BROWN, WHITE, FINE SANDY SILT, MOIST, TRACE MICA
15
100/0.8
WEATHERED ROCK (BROWN, GRAY, GNEISS)
82
RESIDUAL, HARD, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS
BT
FIAD
07/20
Ⓓ RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, MODERATELY PLASTIC
132+50.00
-L-

28-AUG-2024 08:57
N:\Projects\2018\70185317\R5759\R5759_GEO_RDWY_REV\CADD_GEOTECH\xsc\R5759_GEO_RDY_XSI_L.dgn
mlhartman AT W0070050699

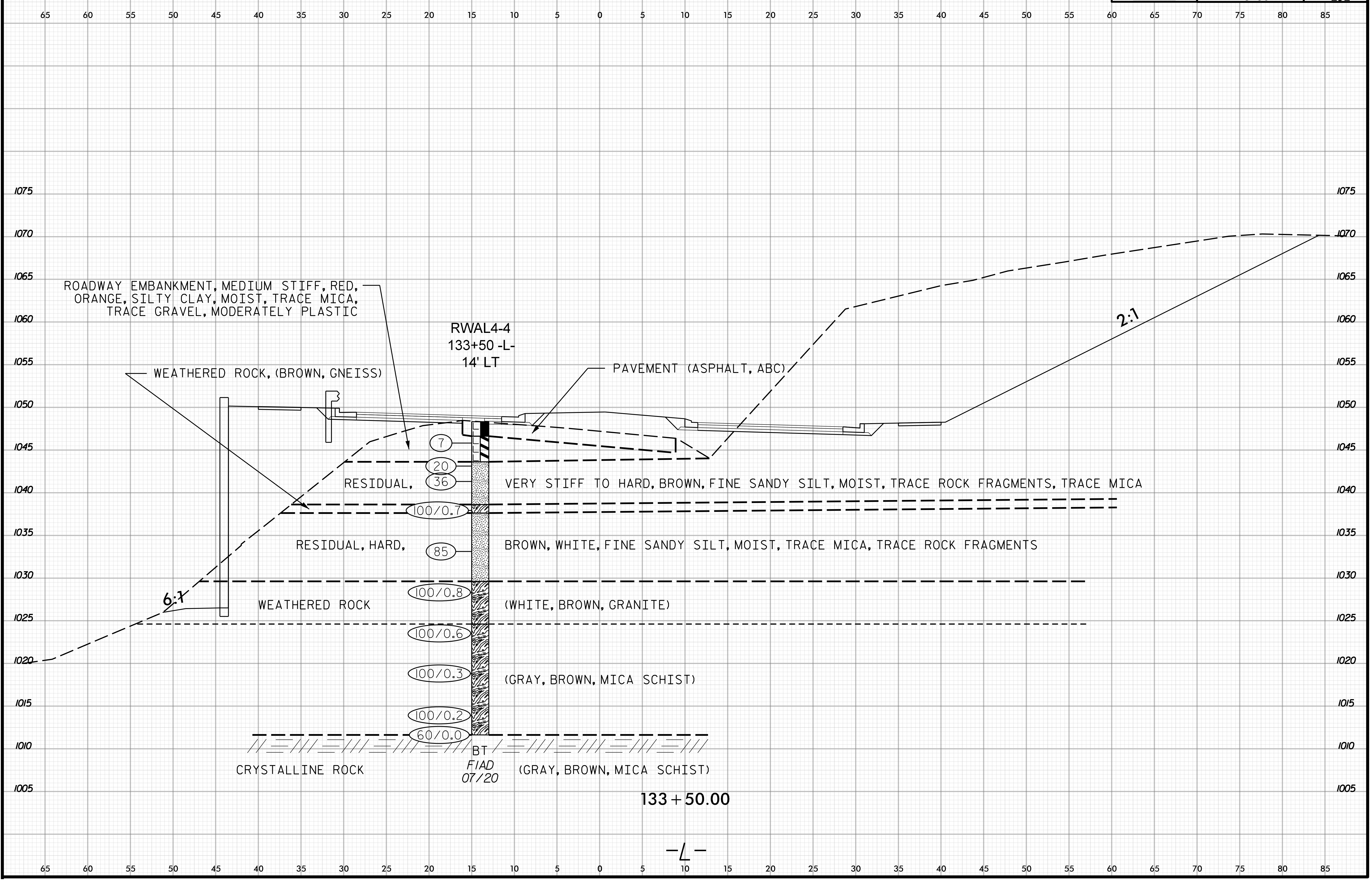
PROJ. REFERENCE NO.	SHEET NO.
R-5759	129


0 2.5 5
145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, TRACE GRAVEL, MODERATELY PLASTIC
PAVEMENT (ASPHALT, ABC)
SS-69
SS-70
ST-1
RWAL4-3
133+00 -L-
105' LT
6:1
MATCH LINE – -L- 133+00 CL
ALLUVIAL, VERY STIFF, GRAY, FINE SANDY CLAY, SATURATED, TRACE MICA, TRACE WOOD, SLIGHTLY PLASTIC
RESIDUAL, SOFT, RED, ORANGE, GRAY, FINE SANDY CLAY, WET, TRACE MICA, SLIGHTLY PLASTIC
2
3
4
8
08/20
LOOSE, ORANGE, SILTY COARSE SAND, SATURATED, TRACE MICA, TRACE QUARTZ FRAGMENTS
100/0.7
100/0.3
WEATHERED ROCK, (GRAY, WHITE, BROWN, ORANGE, MICA SCHIST)
100/0.8
60/0.1
BT
CRYSTALLINE ROCK
(GRAY GNEISS)
133+00.00 (1 OF 2)
-L-


0 2.5 5
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, TRACE GRAVEL, MODERATELY PLASTIC
2:1
MATCH LINE - -L- 133+00 CL
RESIDUAL, SOFT, RED, ORANGE, GRAY, FINE SANDY CLAY, WET, TRACE MICA, SLIGHTLY PLASTIC
LOOSE, ORANGE, SILTY COARSE SAND, SATURATED, TRACE MICA, TRACE QUARTZ FRAGMENTS
WEATHERED ROCK, (GRAY, WHITE, BROWN, ORANGE, MICA SCHIST)
1085
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
990
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145

133+00.00 (2 OF 2)

-L-



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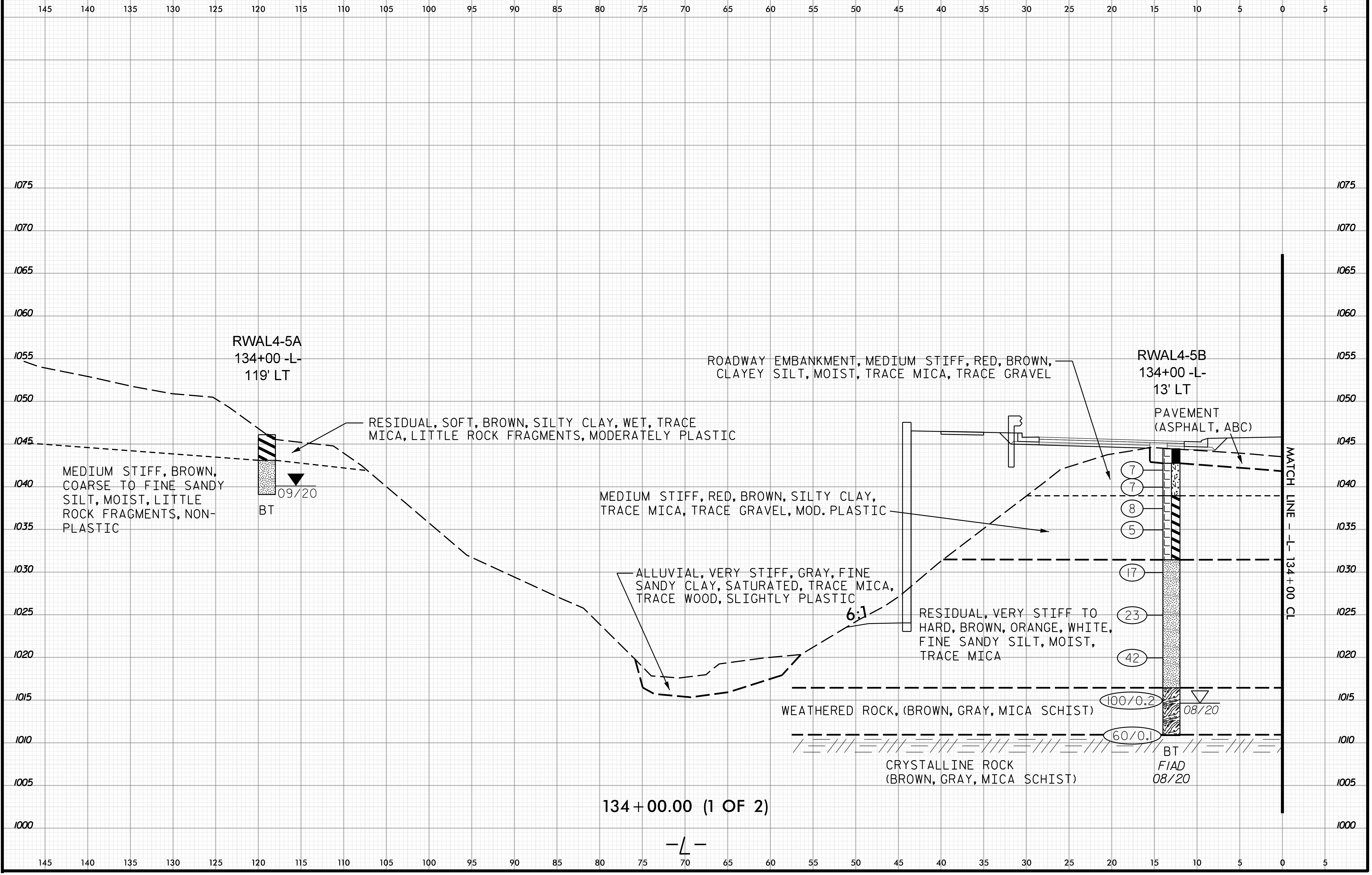
mlhartman AT W0070050699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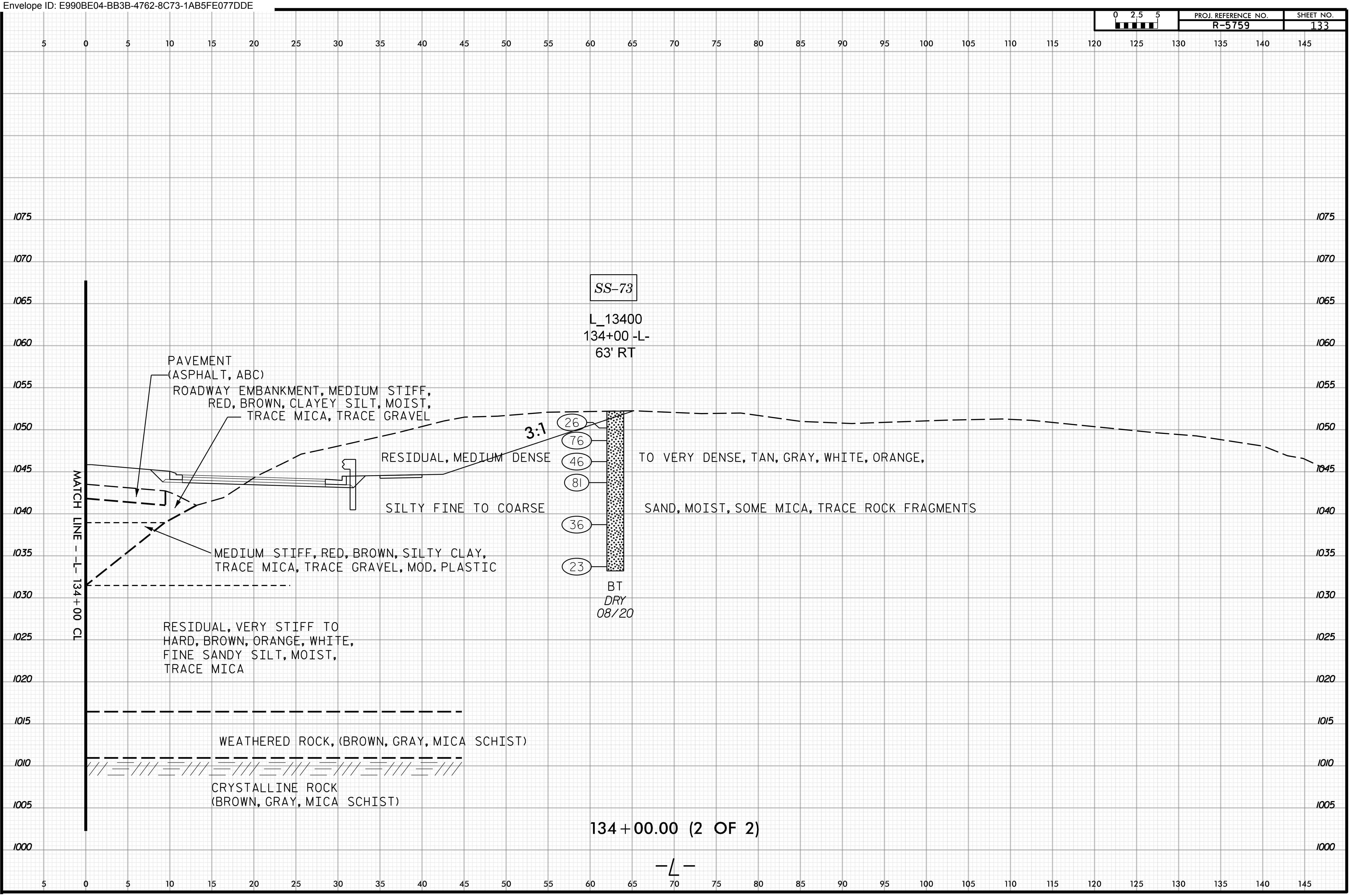
145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
RWAL4-5A
134+00 -L-
119' LT
RESIDUAL, SOFT, BROWN, SILTY CLAY, WET, TRACE MICA, LITTLE ROCK FRAGMENTS, MODERATELY PLASTIC
MEDIUM STIFF, BROWN, COARSE TO FINE SANDY SILT, MOIST, LITTLE ROCK FRAGMENTS, NON-PLASTIC
09/20
BT
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, BROWN, CLAYEY SILT, MOIST, TRACE MICA, TRACE GRAVEL
RWAL4-5B
134+00 -L-
13' LT
PAVEMENT (ASPHALT, ABC)
MEDIUM STIFF, RED, BROWN, SILTY CLAY, TRACE MICA, TRACE GRAVEL, MOD. PLASTIC
7
7
8
5
17
23
42
100/0.2
60/0.1
ALLUVIAL, VERY STIFF, GRAY, FINE SANDY CLAY, SATURATED, TRACE MICA, TRACE WOOD, SLIGHTLY PLASTIC
6:1
RESIDUAL, VERY STIFF TO HARD, BROWN, ORANGE, WHITE, FINE SANDY SILT, MOIST, TRACE MICA
WEATHERED ROCK, (BROWN, GRAY, MICA SCHIST)
08/20
BT
FIAD
08/20
CRYSTALLINE ROCK (BROWN, GRAY, MICA SCHIST)
MATCH LINE -L- 134+00 CL

134+00.00 (1 OF 2)

-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	133


0 2.5 5
6/23/16
SS-73
L_13400
134+00 -L-
63' RT
PAVEMENT
(ASPHALT, ABC)
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, BROWN, CLAYEY SILT, MOIST, TRACE MICA, TRACE GRAVEL
3:1
RESIDUAL, MEDIUM DENSE TO VERY DENSE, TAN, GRAY, WHITE, ORANGE, SILTY FINE TO COARSE SAND, MOIST, SOME MICA, TRACE ROCK FRAGMENTS
26
76
46
81
36
23
BT
DRY
08/20
MATCH LINE - -L- 134+00 CL
MEDIUM STIFF, RED, BROWN, SILTY CLAY, TRACE MICA, TRACE GRAVEL, MOD. PLASTIC
RESIDUAL, VERY STIFF TO HARD, BROWN, ORANGE, WHITE, FINE SANDY SILT, MOIST, TRACE MICA
WEATHERED ROCK, (BROWN, GRAY, MICA SCHIST)
CRYSTALLINE ROCK (BROWN, GRAY, MICA SCHIST)
5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145
1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000
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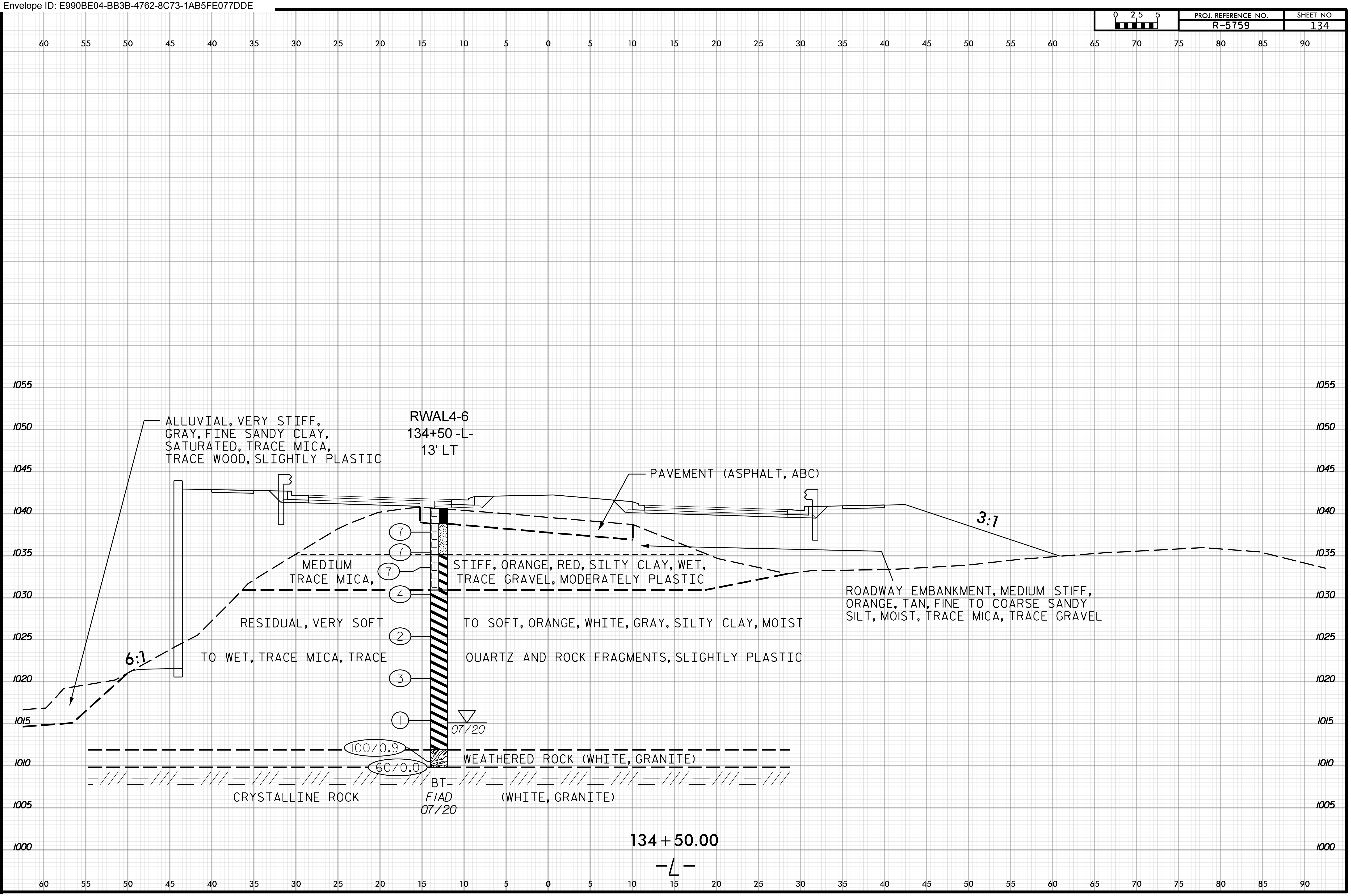
mlhartman AT W007005 0699

134+00.00 (2 OF 2)

-L-



0 2.5 5
60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
RWAL4-6
134+50 -L-
13' LT
ALLUVIAL, VERY STIFF, GRAY, FINE SANDY CLAY, SATURATED, TRACE MICA, TRACE WOOD, SLIGHTLY PLASTIC
PAVEMENT (ASPHALT, ABC)
3:1
6:1
MEDIUM
TRACE MICA,
STIFF, ORANGE, RED, SILTY CLAY, WET,
TRACE GRAVEL, MODERATELY PLASTIC
ROADWAY EMBANKMENT, MEDIUM STIFF, ORANGE, TAN, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, TRACE GRAVEL
7
7
7
4
2
3
1
RESIDUAL, VERY SOFT
TO SOFT, ORANGE, WHITE, GRAY, SILTY CLAY, MOIST
TO WET, TRACE MICA, TRACE
QUARTZ AND ROCK FRAGMENTS, SLIGHTLY PLASTIC
07/20
100/0.9
60/0.0
WEATHERED ROCK (WHITE, GRANITE)
BT
FIAD
07/20
CRYSTALLINE ROCK
(WHITE, GRANITE)

134 + 50.00

-L-

6/23/16

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mlhartman AT W007005069

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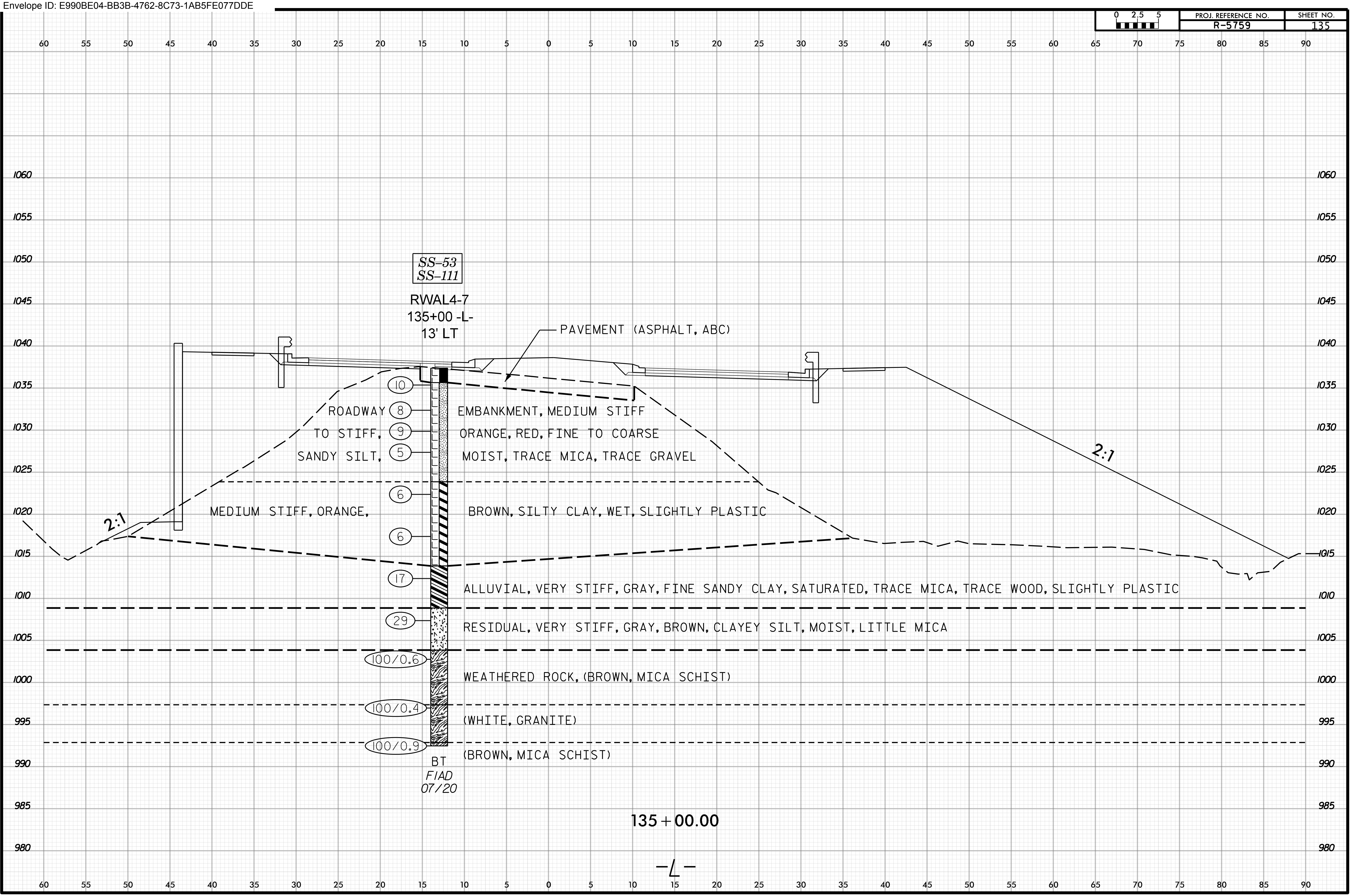

135+00.00

-L-

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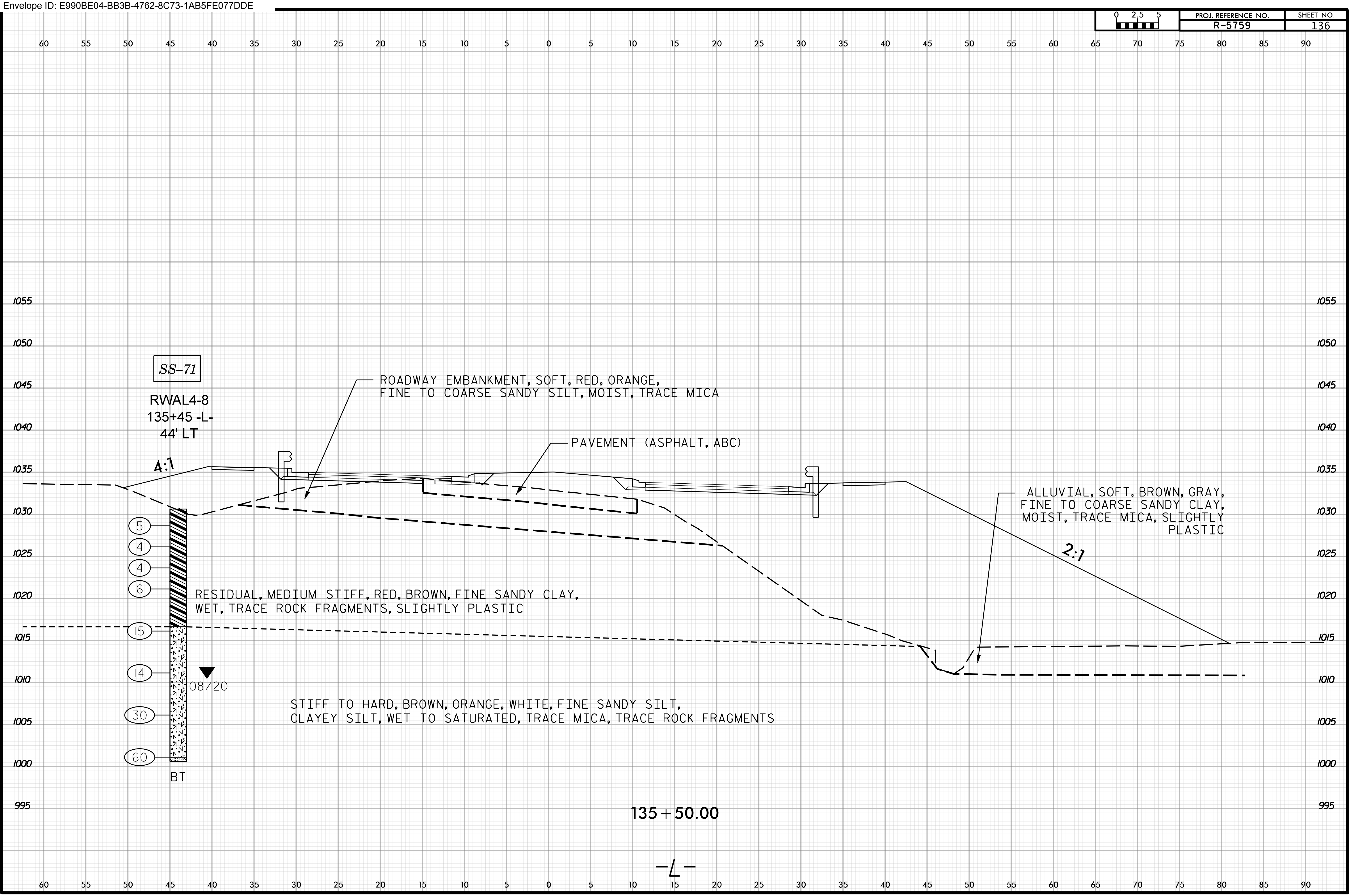
mlhartman AT W00700050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	136


0 2.5 5
60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
SS-71
RWAL4-8
135+45 -L-
44' LT
4:1
5
4
4
6
15
14
30
60
BT
08/20
ROADWAY EMBANKMENT, SOFT, RED, ORANGE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA
PAVEMENT (ASPHALT, ABC)
ALLUVIAL, SOFT, BROWN, GRAY, FINE TO COARSE SANDY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC
2:1
RESIDUAL, MEDIUM STIFF, RED, BROWN, FINE SANDY CLAY, WET, TRACE ROCK FRAGMENTS, SLIGHTLY PLASTIC
STIFF TO HARD, BROWN, ORANGE, WHITE, FINE SANDY SILT, CLAYEY SILT, WET TO SATURATED, TRACE MICA, TRACE ROCK FRAGMENTS
135+50.00
-L-

6/23/16

28-AUG-2024 08:57
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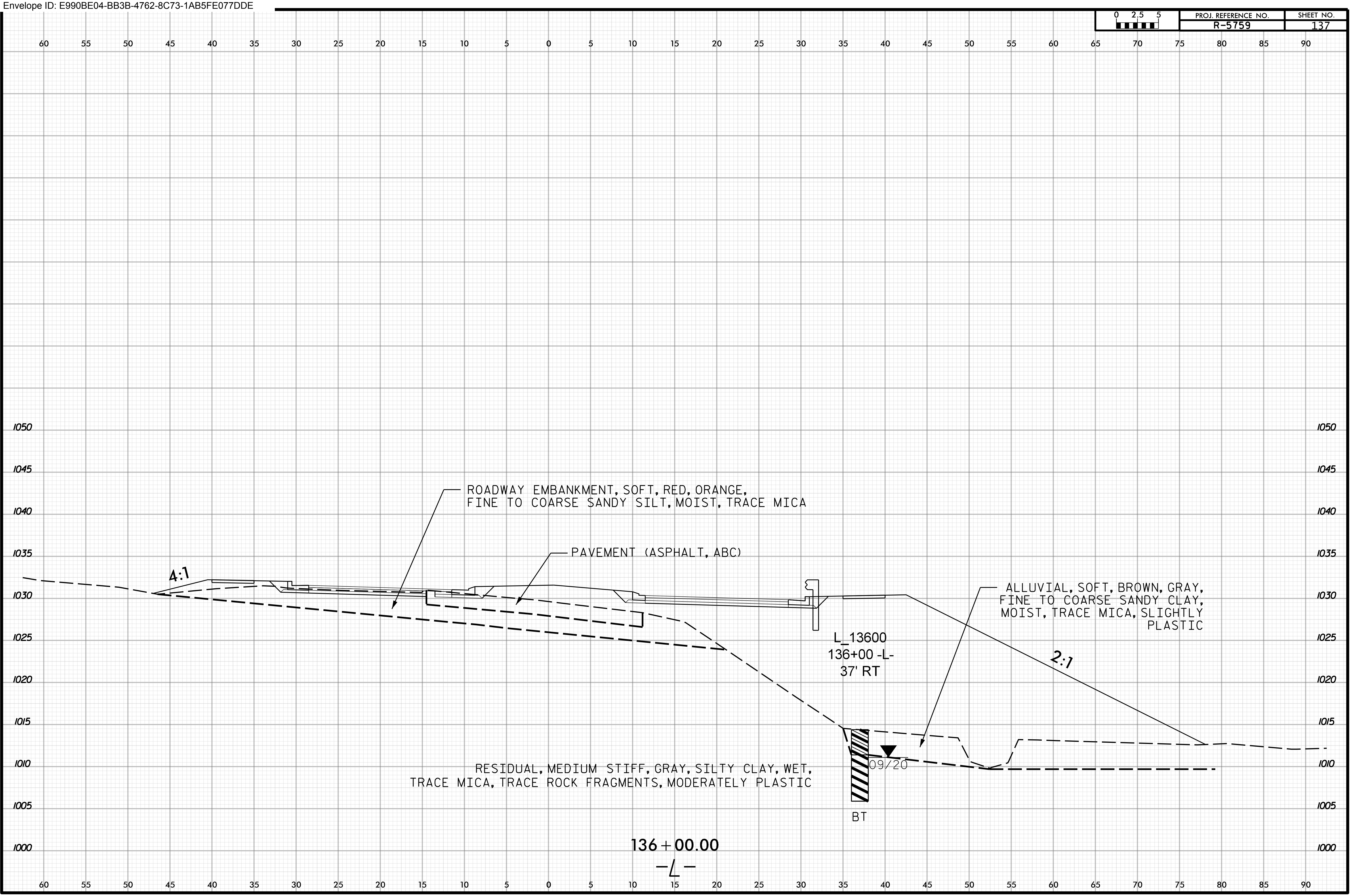
mlhartman AT W0070050699

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	137


0 2.5 5
60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
ROADWAY EMBANKMENT, SOFT, RED, ORANGE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA
PAVEMENT (ASPHALT, ABC)
4:1
ALLUVIAL, SOFT, BROWN, GRAY, FINE TO COARSE SANDY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC
L_13600
136+00 -L-
37' RT
2:1
09/20
RESIDUAL, MEDIUM STIFF, GRAY, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, MODERATELY PLASTIC
BT
136+00.00
-L-

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mlhartman AT W007005069

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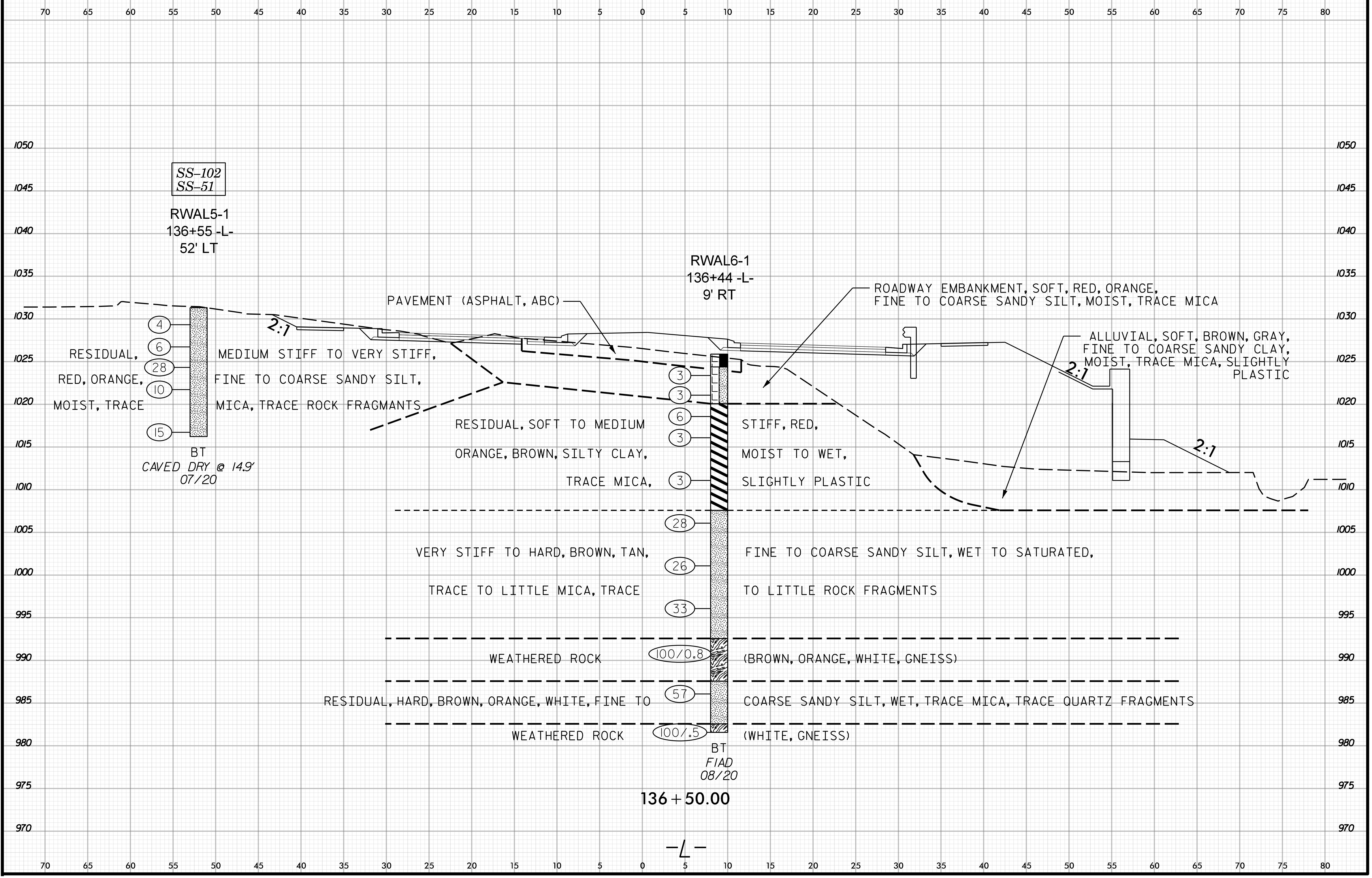
	R-5759	138

6/23/16


SS-102
SS-51
RWAL5-1
136+55 -L-
52' LT
RWAL6-1
136+44 -L-
9' RT
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, SOFT, RED, ORANGE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA
ALLUVIAL, SOFT, BROWN, GRAY, FINE TO COARSE SANDY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, ORANGE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMANTS
4
6
28
10
15
BT
CAVED DRY @ 14.9'
07/20
2:1
2:1
2:1
RESIDUAL, SOFT TO MEDIUM STIFF, RED, ORANGE, BROWN, SILTY CLAY, MOIST TO WET, TRACE MICA, SLIGHTLY PLASTIC
3
3
6
3
3
VERY STIFF TO HARD, BROWN, TAN, FINE TO COARSE SANDY SILT, WET TO SATURATED, TRACE TO LITTLE MICA, TRACE TO LITTLE ROCK FRAGMENTS
28
26
33
WEATHERED ROCK (BROWN, ORANGE, WHITE, GNEISS)
100/0.8
RESIDUAL, HARD, BROWN, ORANGE, WHITE, FINE TO COARSE SANDY SILT, WET, TRACE MICA, TRACE QUARTZ FRAGMENTS
57
WEATHERED ROCK (WHITE, GNEISS)
100/.5
BT
FIAD
08/20
136+50.00
-L-
70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80
1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970

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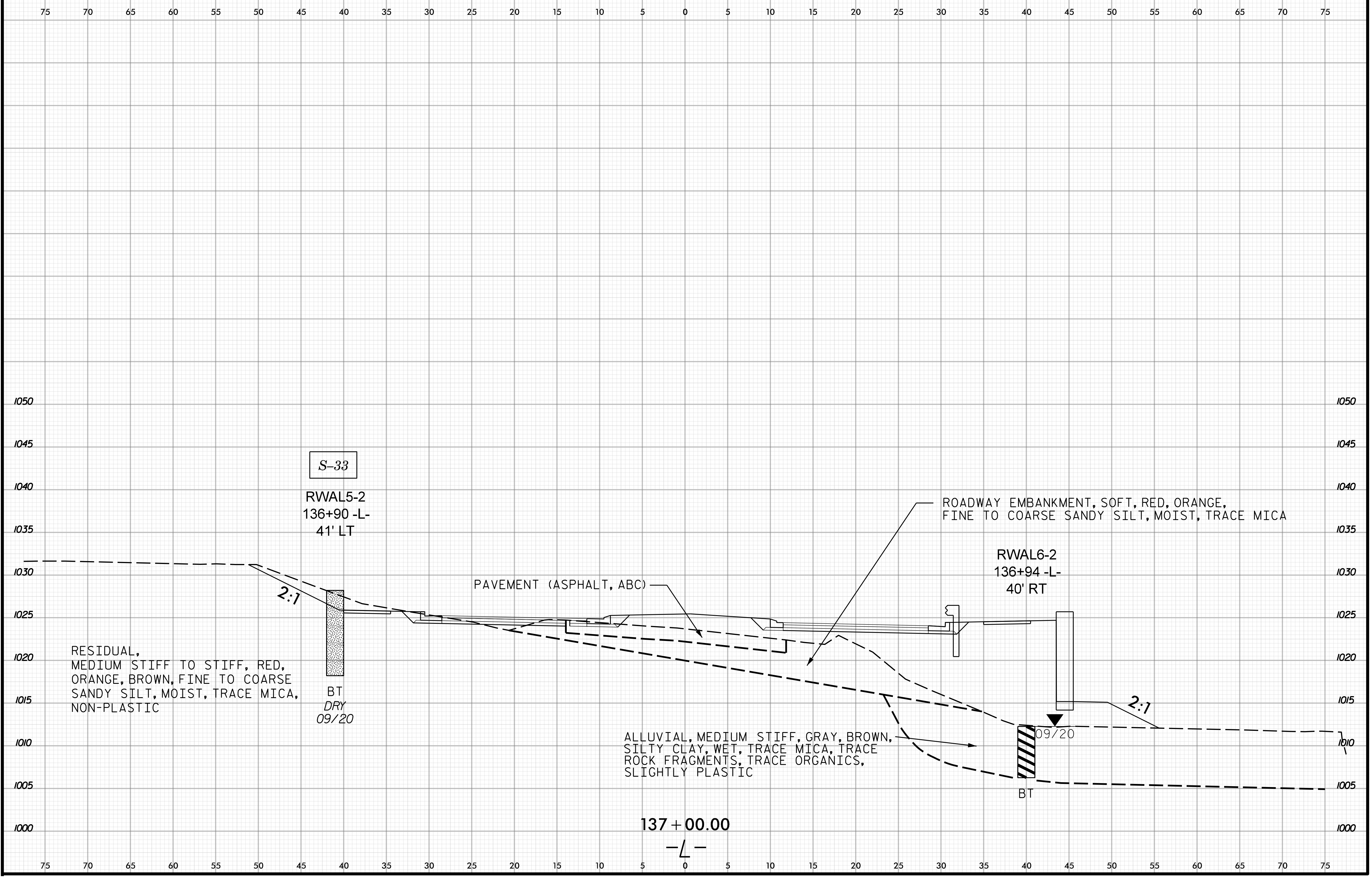
mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	139

6/23/16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1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
S-33
RWAL5-2
136+90 -L-
41' LT
2:1
BT
DRY
09/20
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, SOFT, RED, ORANGE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA
RWAL6-2
136+94 -L-
40' RT
2:1
09/20
BT
RESIDUAL, MEDIUM STIFF TO STIFF, RED, ORANGE, BROWN, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, NON-PLASTIC
ALLUVIAL, MEDIUM STIFF, GRAY, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, TRACE ORGANICS, SLIGHTLY PLASTIC
137+00.00
-L-

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mlhartman AT W007005069

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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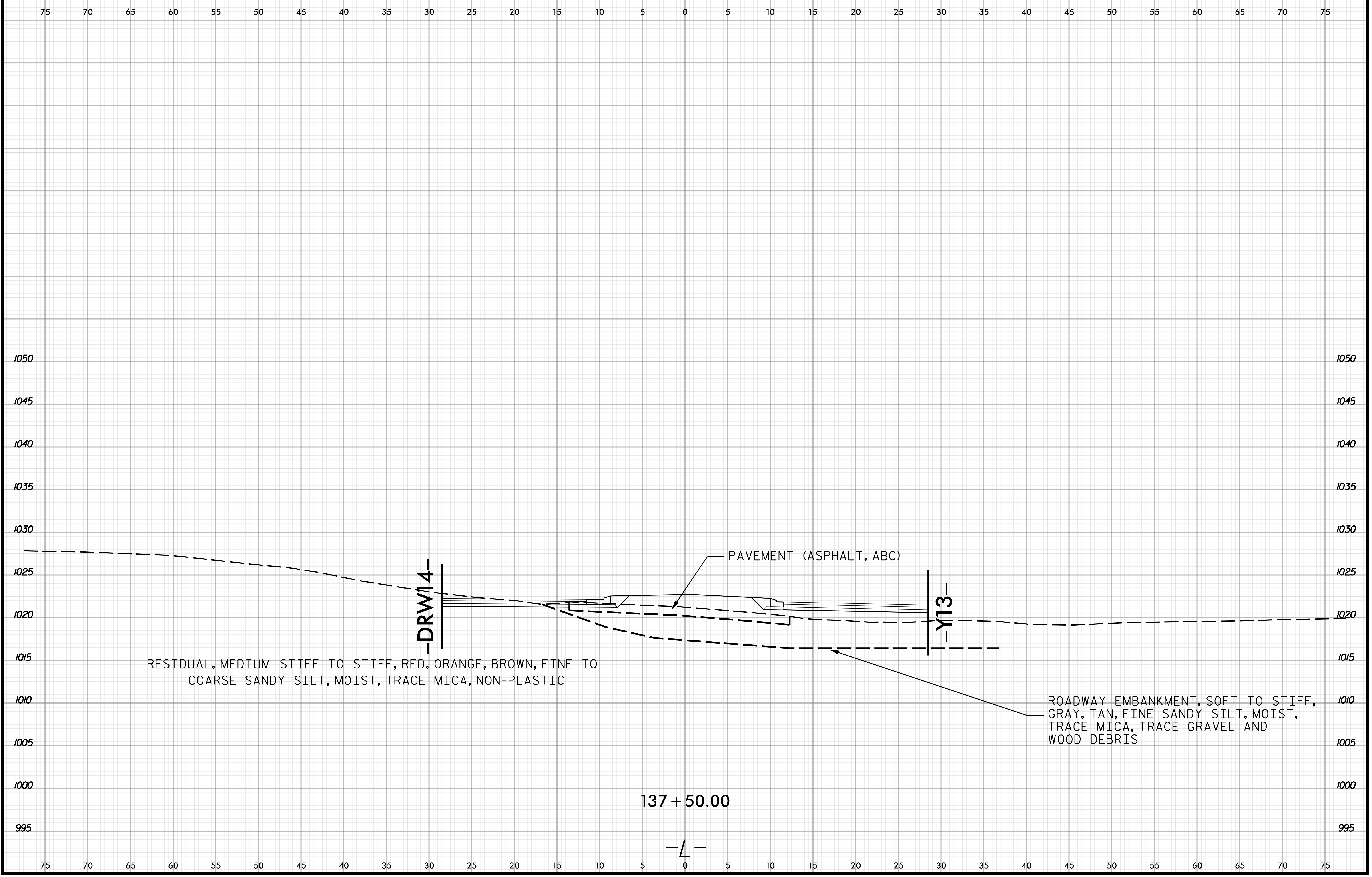

PAVEMENT (ASPHALT, ABC)

RESIDUAL, MEDIUM STIFF TO STIFF, RED, ORANGE, BROWN, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, NON-PLASTIC

ROADWAY EMBANKMENT, SOFT TO STIFF, GRAY, TAN, FINE SANDY SILT, MOIST, TRACE MICA, TRACE GRAVEL AND WOOD DEBRIS

137+50.00

-L-

28-AUG-2024 08:57
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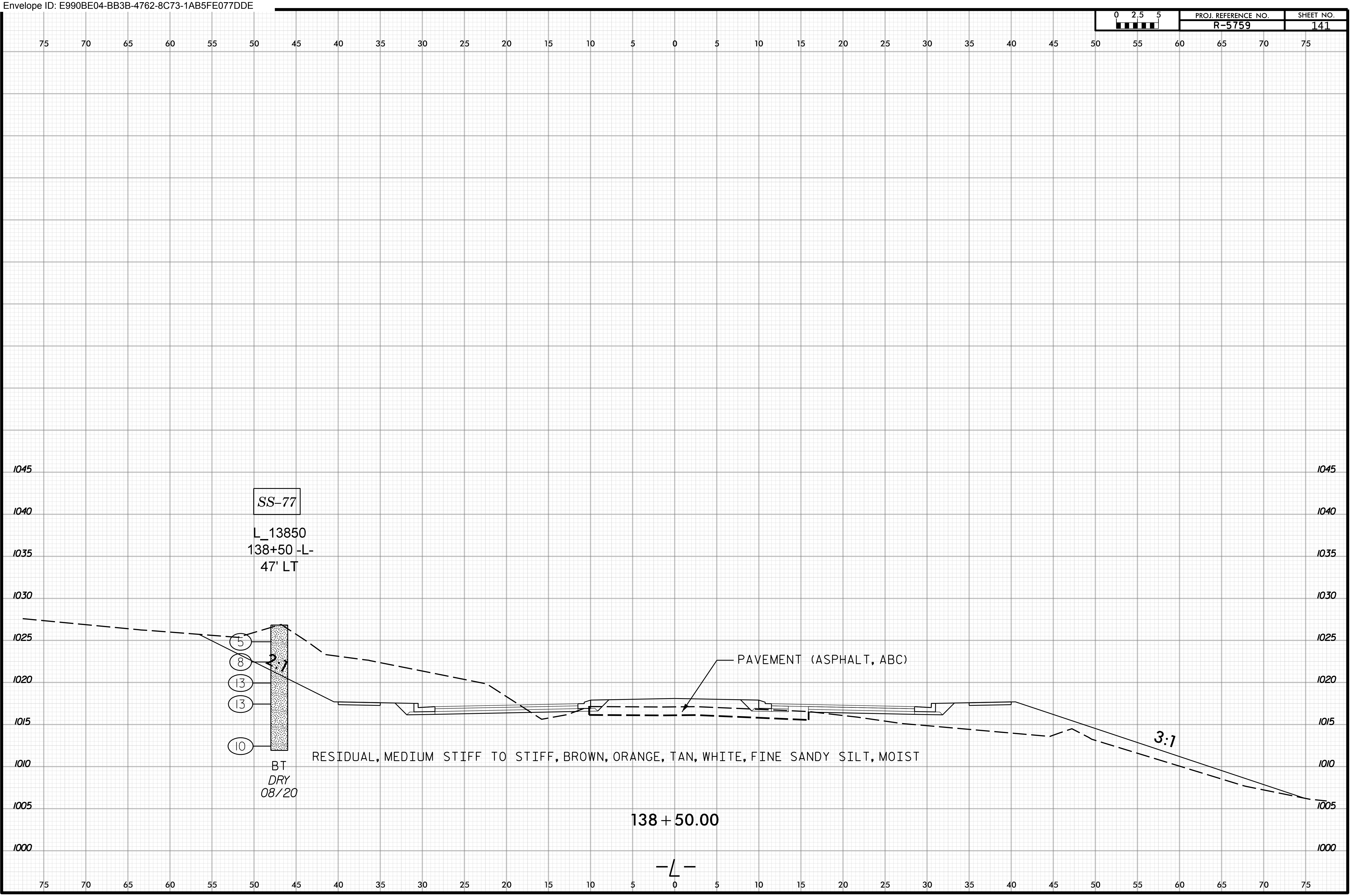
mlhartman AT W007005069

PROJ. REFERENCE NO.	SHEET NO.
R-5759	141



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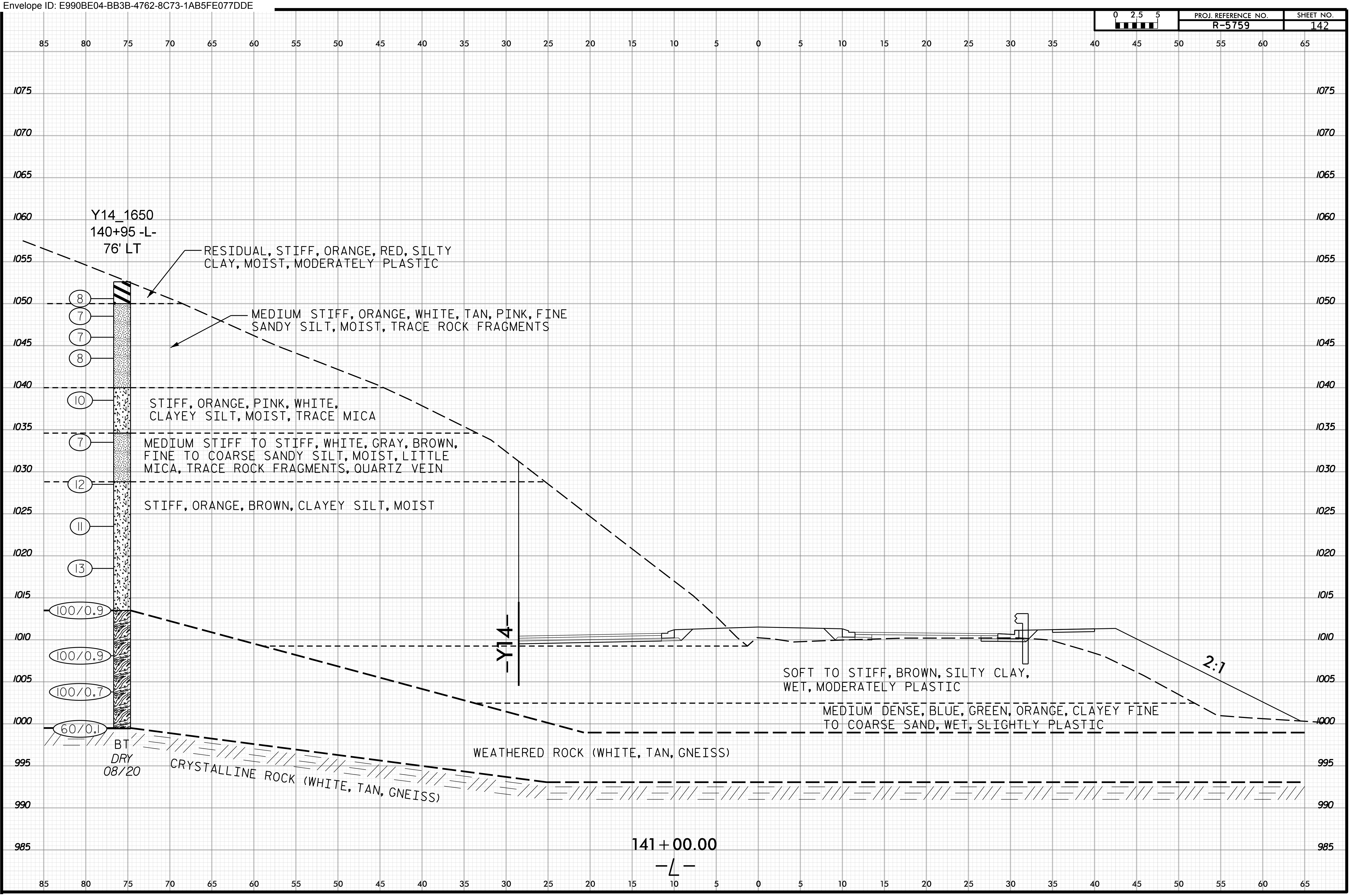
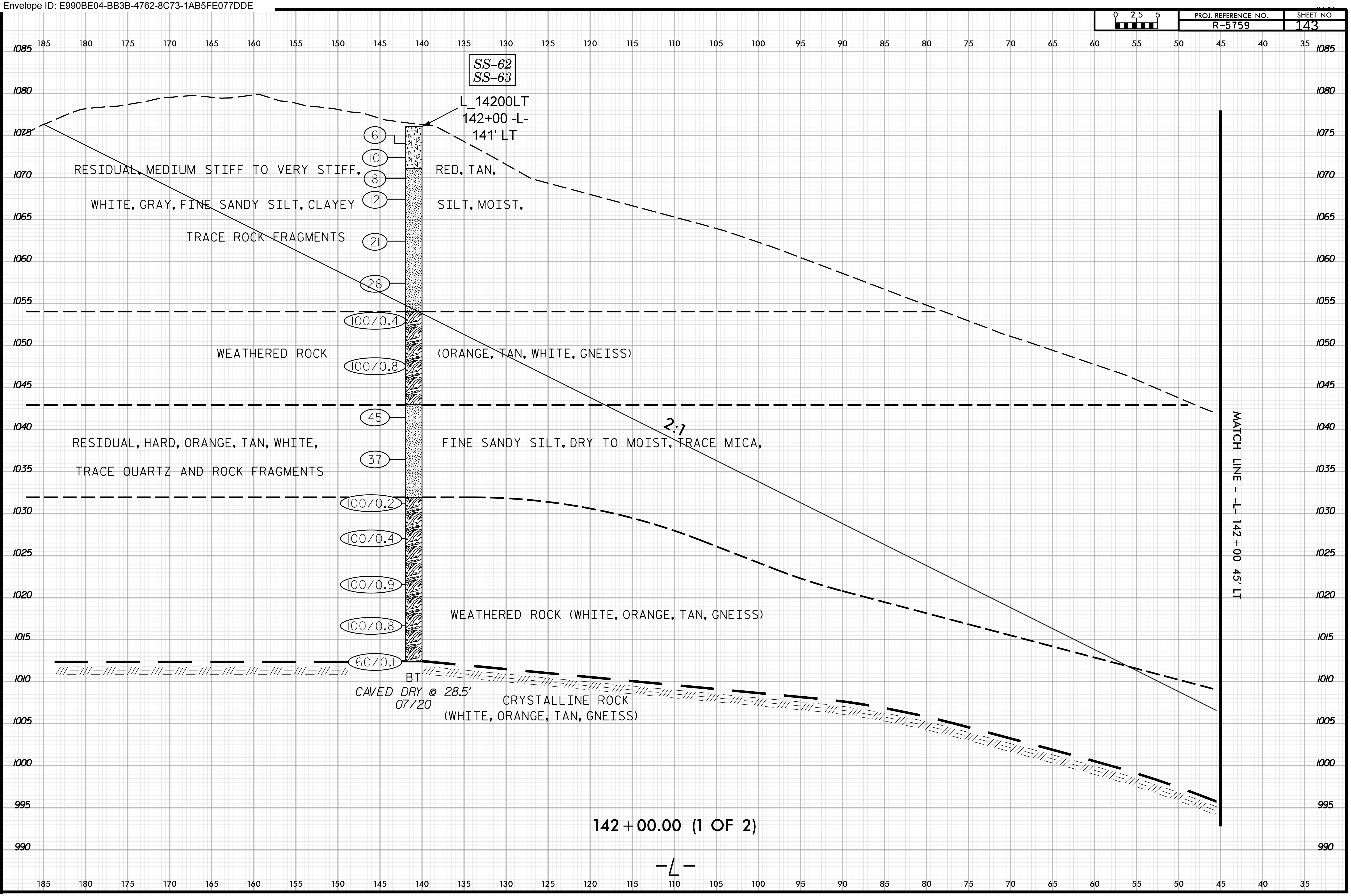
mlhartman AT W0070050699



0 2.5 5
6/23/16
Y14_1650
140+95 -L-
76' LT
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
MEDIUM STIFF, ORANGE, WHITE, TAN, PINK, FINE SANDY SILT, MOIST, TRACE ROCK FRAGMENTS
STIFF, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA
MEDIUM STIFF TO STIFF, WHITE, GRAY, BROWN, FINE TO COARSE SANDY SILT, MOIST, LITTLE MICA, TRACE ROCK FRAGMENTS, QUARTZ VEIN
STIFF, ORANGE, BROWN, CLAYEY SILT, MOIST
8
7
7
8
10
7
12
11
13
100/0.9
100/0.9
100/0.7
60/0.1
BT
DRY
08/20
-Y14-
SOFT TO STIFF, BROWN, SILTY CLAY, WET, MODERATELY PLASTIC
MEDIUM DENSE, BLUE, GREEN, ORANGE, CLAYEY FINE TO COARSE SAND, WET, SLIGHTLY PLASTIC
2:1
WEATHERED ROCK (WHITE, TAN, GNEISS)
CRYSTALLINE ROCK (WHITE, TAN, GNEISS)
141+00.00
-L-
85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65
1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985


0 2.5 5
SS-62
SS-63
L_14200LT
142+00 -L-
141' LT
6
10
8
12
21
26
100/0.4
100/0.8
45
37
100/0.2
100/0.4
100/0.9
100/0.8
60/0.1
BT
CAVED DRY @ 28.5'
07/20
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, TAN,
WHITE, GRAY, FINE SANDY SILT, CLAYEY SILT, MOIST,
TRACE ROCK FRAGMENTS
WEATHERED ROCK (ORANGE, TAN, WHITE, GNEISS)
RESIDUAL, HARD, ORANGE, TAN, WHITE, FINE SANDY SILT, DRY TO MOIST, TRACE MICA,
TRACE QUARTZ AND ROCK FRAGMENTS
2:1
WEATHERED ROCK (WHITE, ORANGE, TAN, GNEISS)
CRYSTALLINE ROCK
(WHITE, ORANGE, TAN, GNEISS)
MATCH LINE - -L- 142+00 45' LT
185 180 175 170 165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35
1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990
6/23/16
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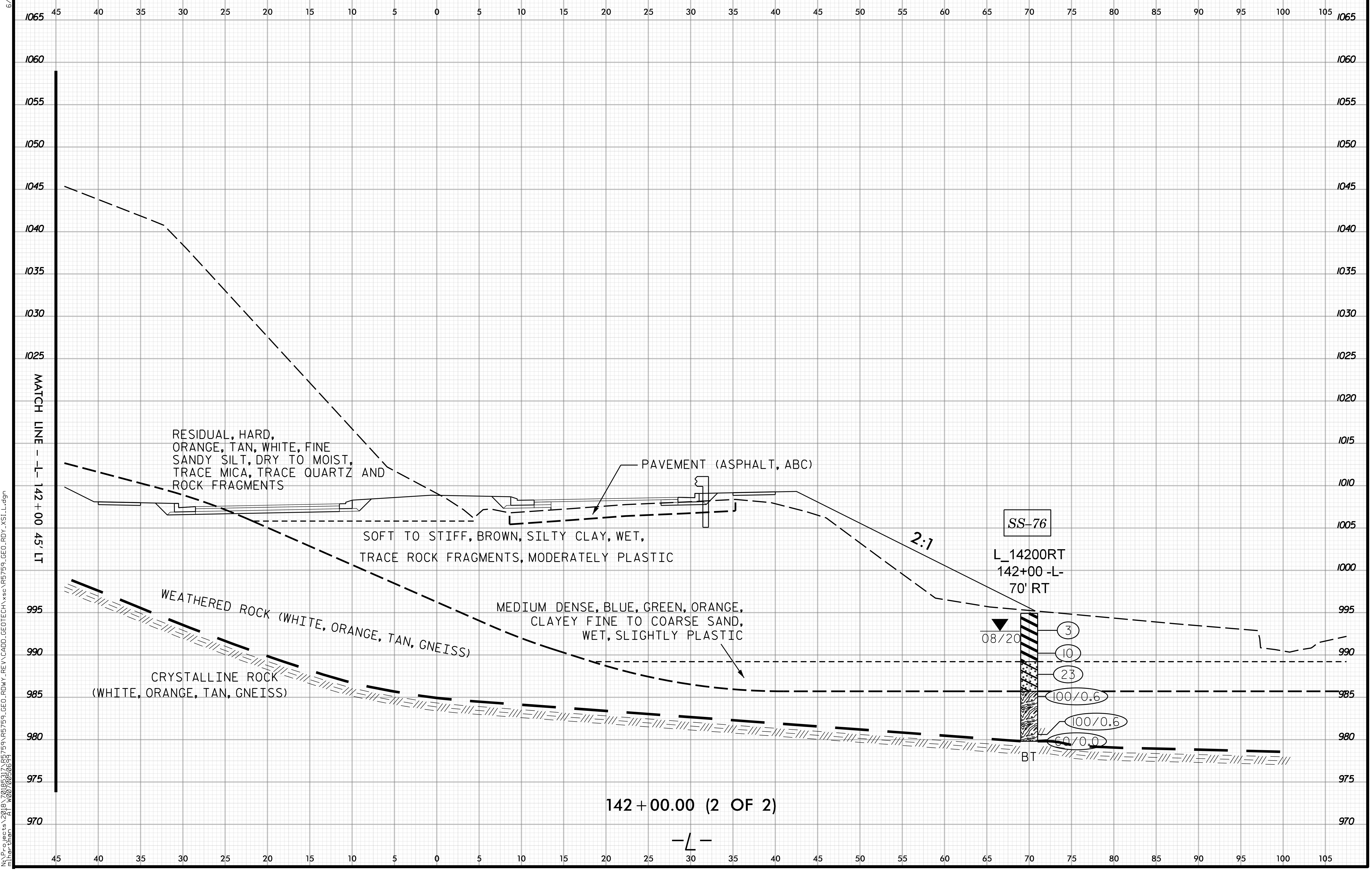
mlhartman AT W0070050699

142+00.00 (1 OF 2)

-L-

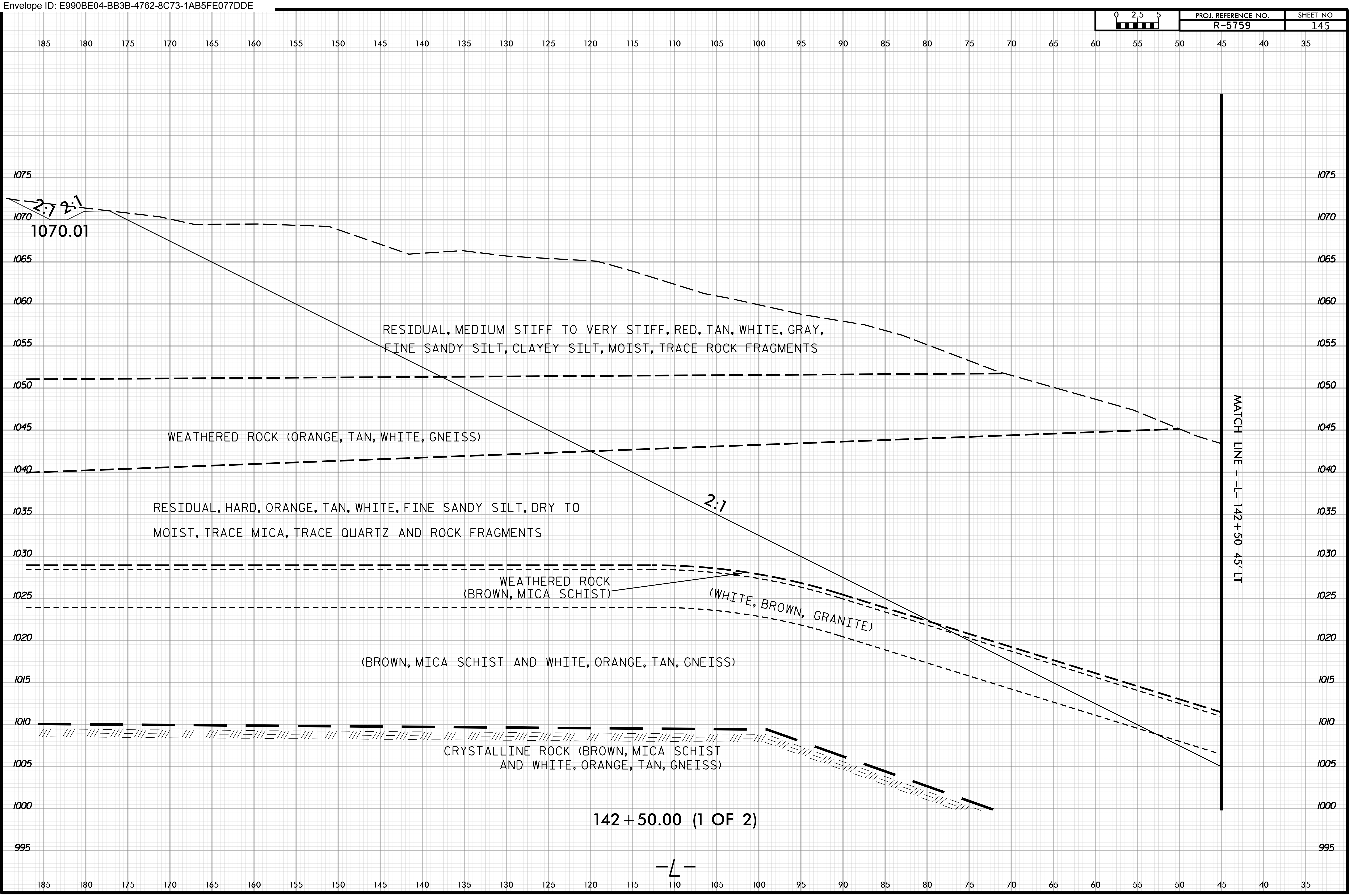

0 2.5 5
6/23/16
45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105
1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970
MATCH LINE – -L- 142+00 45' LT
RESIDUAL, HARD, ORANGE, TAN, WHITE, FINE SANDY SILT, DRY TO MOIST, TRACE MICA, TRACE QUARTZ AND ROCK FRAGMENTS
PAVEMENT (ASPHALT, ABC)
SOFT TO STIFF, BROWN, SILTY CLAY, WET, TRACE ROCK FRAGMENTS, MODERATELY PLASTIC
2:1
SS-76
L_14200RT
142+00 -L-
70' RT
WEATHERED ROCK (WHITE, ORANGE, TAN, GNEISS)
MEDIUM DENSE, BLUE, GREEN, ORANGE, CLAYEY FINE TO COARSE SAND, WET, SLIGHTLY PLASTIC
08/20
3
10
23
100/0.6
100/0.6
60/0.0
BT
CRYSTALLINE ROCK (WHITE, ORANGE, TAN, GNEISS)

142+00.00 (2 OF 2)

-L-

04-SEP-2024 12:50
N:\Projects\2018\70185317\R5759\R5759_GEO_RDWY_REV\CADD_GEOTECH\xsc\R5759_GEO_RDY_XSI_L.dgn
mlhartman AT W00700050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	145


0 2.5 5
185 180 175 170 165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35
1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995
2:1
2:1
1070.01
RESIDUAL, MEDIUM STIFF TO VERY STIFF, RED, TAN, WHITE, GRAY, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE ROCK FRAGMENTS
WEATHERED ROCK (ORANGE, TAN, WHITE, GNEISS)
2:1
RESIDUAL, HARD, ORANGE, TAN, WHITE, FINE SANDY SILT, DRY TO MOIST, TRACE MICA, TRACE QUARTZ AND ROCK FRAGMENTS
WEATHERED ROCK (BROWN, MICA SCHIST)
(WHITE, BROWN, GRANITE)
(BROWN, MICA SCHIST AND WHITE, ORANGE, TAN, GNEISS)
CRYSTALLINE ROCK (BROWN, MICA SCHIST AND WHITE, ORANGE, TAN, GNEISS)
MATCH LINE -L- 142+50 45' LT

142+50.00 (1 OF 2)

-L-

6/23/16

28-AUG-2024 08:57
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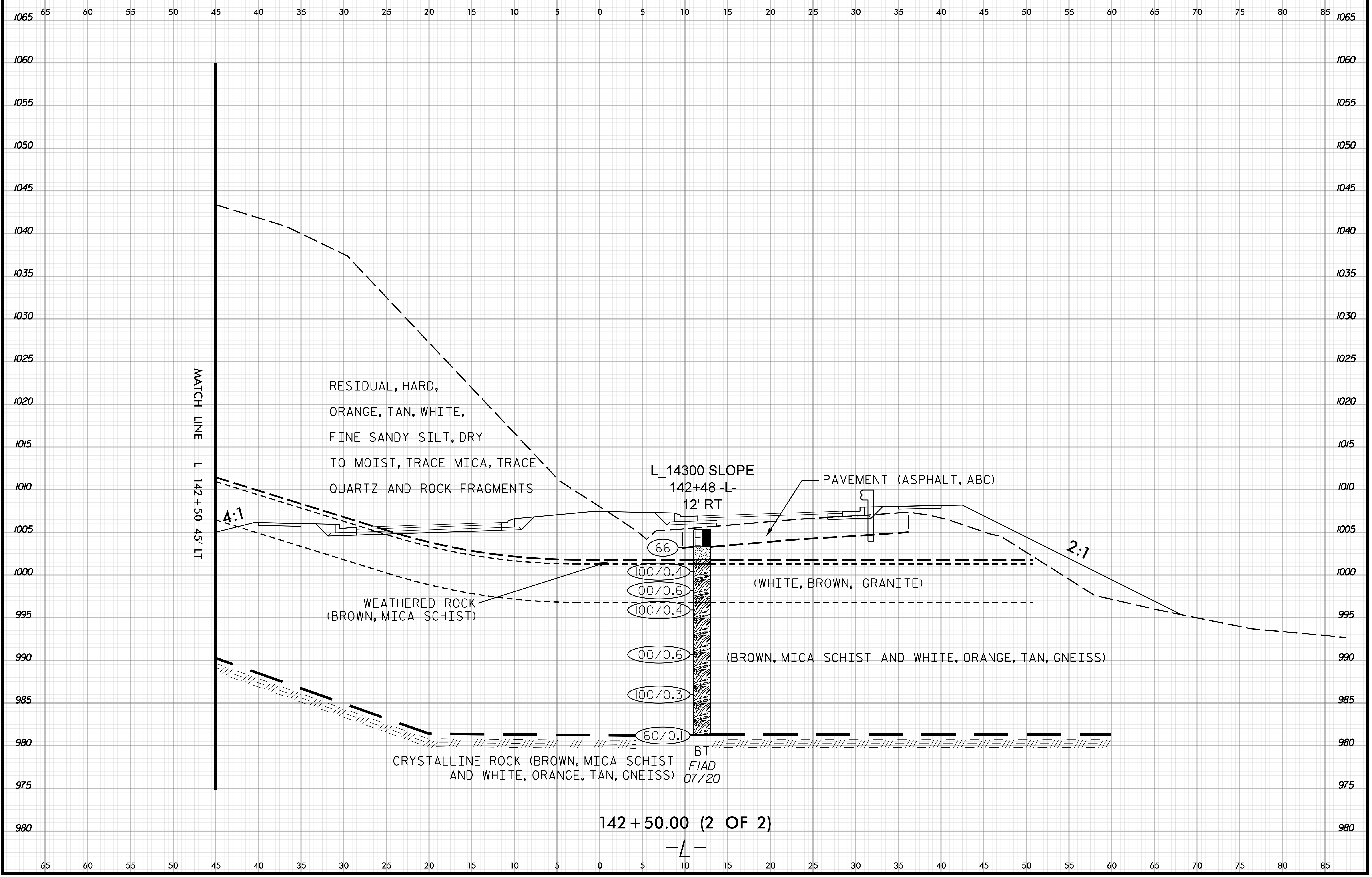
mlhartman AT W007005069



142 + 50.00 (2 OF 2)
-L-

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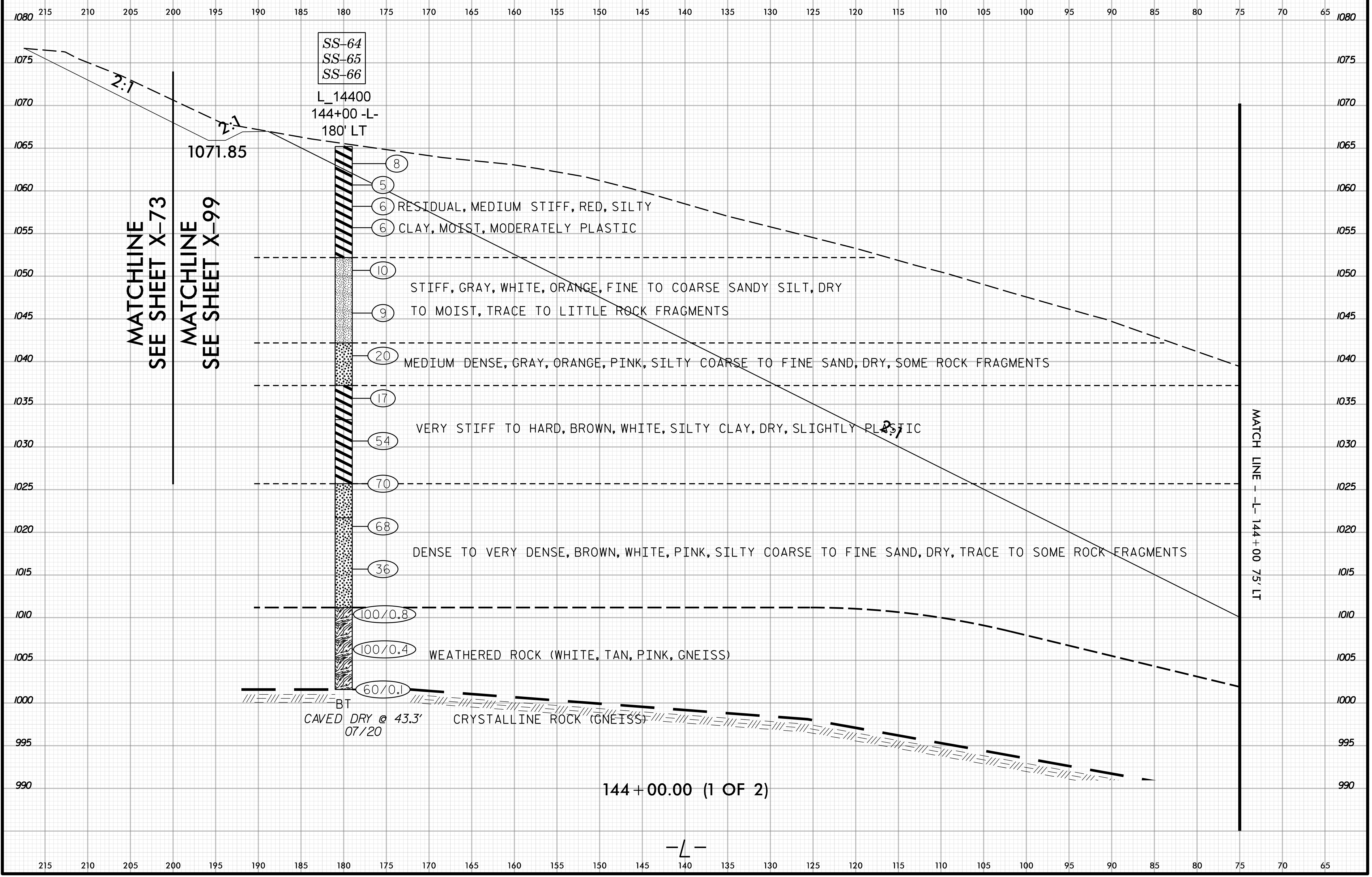
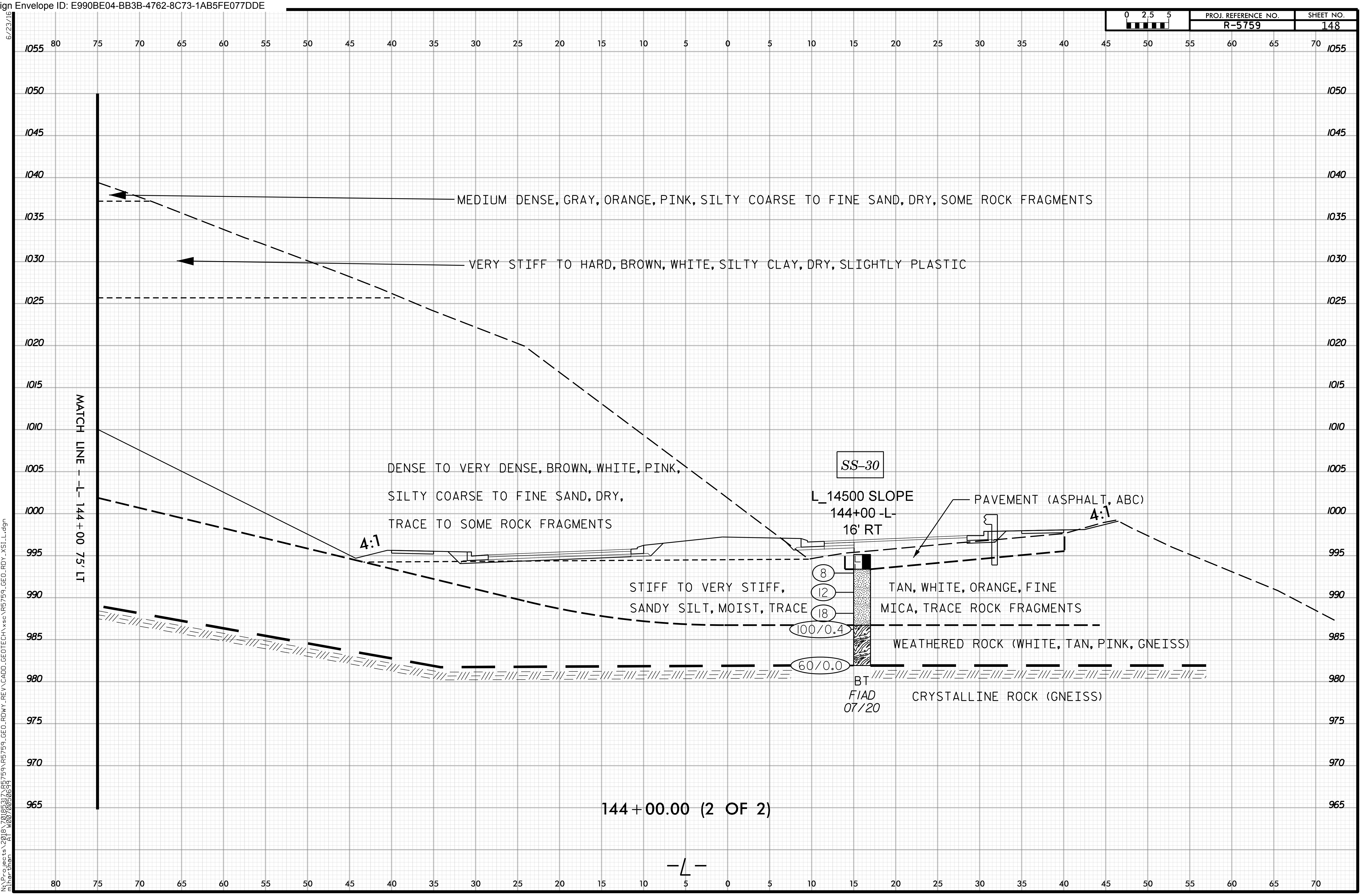
mlhartman AT W0070050699


SS-64
SS-65
SS-66
L_14400
144+00 -L-
180' LT
1071.85
2:1
2:1
2:1
MATCHLINE SEE SHEET X-73
MATCHLINE SEE SHEET X-99
8
5
6
6
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
10
9
STIFF, GRAY, WHITE, ORANGE, FINE TO COARSE SANDY SILT, DRY TO MOIST, TRACE TO LITTLE ROCK FRAGMENTS
20
MEDIUM DENSE, GRAY, ORANGE, PINK, SILTY COARSE TO FINE SAND, DRY, SOME ROCK FRAGMENTS
17
54
VERY STIFF TO HARD, BROWN, WHITE, SILTY CLAY, DRY, SLIGHTLY PLASTIC
70
68
36
DENSE TO VERY DENSE, BROWN, WHITE, PINK, SILTY COARSE TO FINE SAND, DRY, TRACE TO SOME ROCK FRAGMENTS
100/0.8
100/0.4
WEATHERED ROCK (WHITE, TAN, PINK, GNEISS)
60/0.1
BT
CAVED DRY @ 43.3'
07/20
CRYSTALLINE ROCK (GNEISS)
MATCH LINE -L- 144+00 75' LT
144+00.00 (1 OF 2)
-L-
215 210 205 200 195 190 185 180 175 170 165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65
1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990

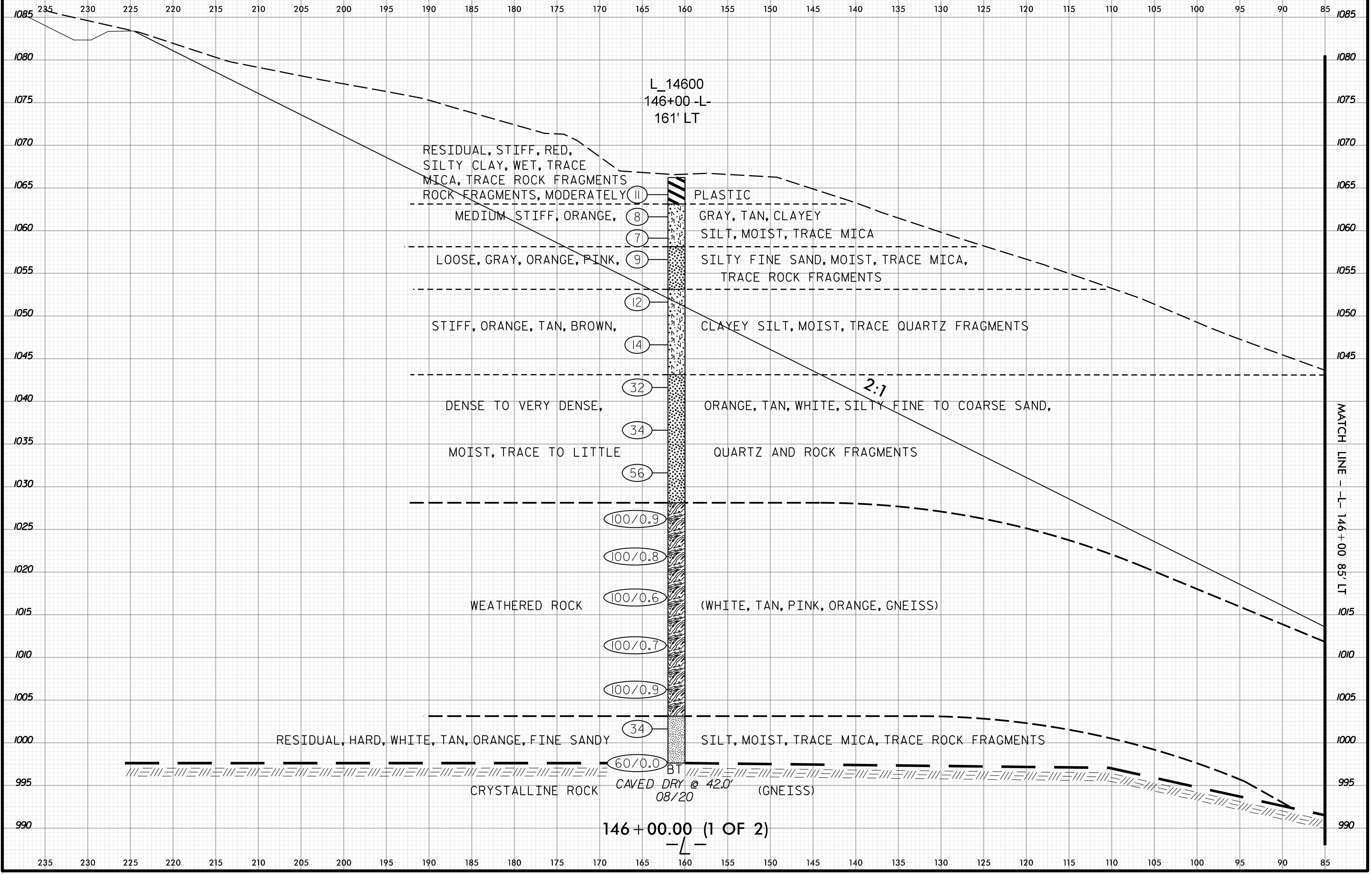


0 2.5 5
6/23/16
MEDIUM DENSE, GRAY, ORANGE, PINK, SILTY COARSE TO FINE SAND, DRY, SOME ROCK FRAGMENTS
VERY STIFF TO HARD, BROWN, WHITE, SILTY CLAY, DRY, SLIGHTLY PLASTIC
MATCH LINE -L- 144+00 75' LT
DENSE TO VERY DENSE, BROWN, WHITE, PINK,
SILTY COARSE TO FINE SAND, DRY,
TRACE TO SOME ROCK FRAGMENTS
4:1
SS-30
L_14500 SLOPE
144+00 -L-
16' RT
PAVEMENT (ASPHALT, ABC)
4:1
8
12
18
100/0.4
60/0.0
STIFF TO VERY STIFF,
SANDY SILT, MOIST, TRACE
TAN, WHITE, ORANGE, FINE
MICA, TRACE ROCK FRAGMENTS
WEATHERED ROCK (WHITE, TAN, PINK, GNEISS)
BT
FIAD
07/20
CRYSTALLINE ROCK (GNEISS)
1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975 970 965
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

144+00.00 (2 OF 2)

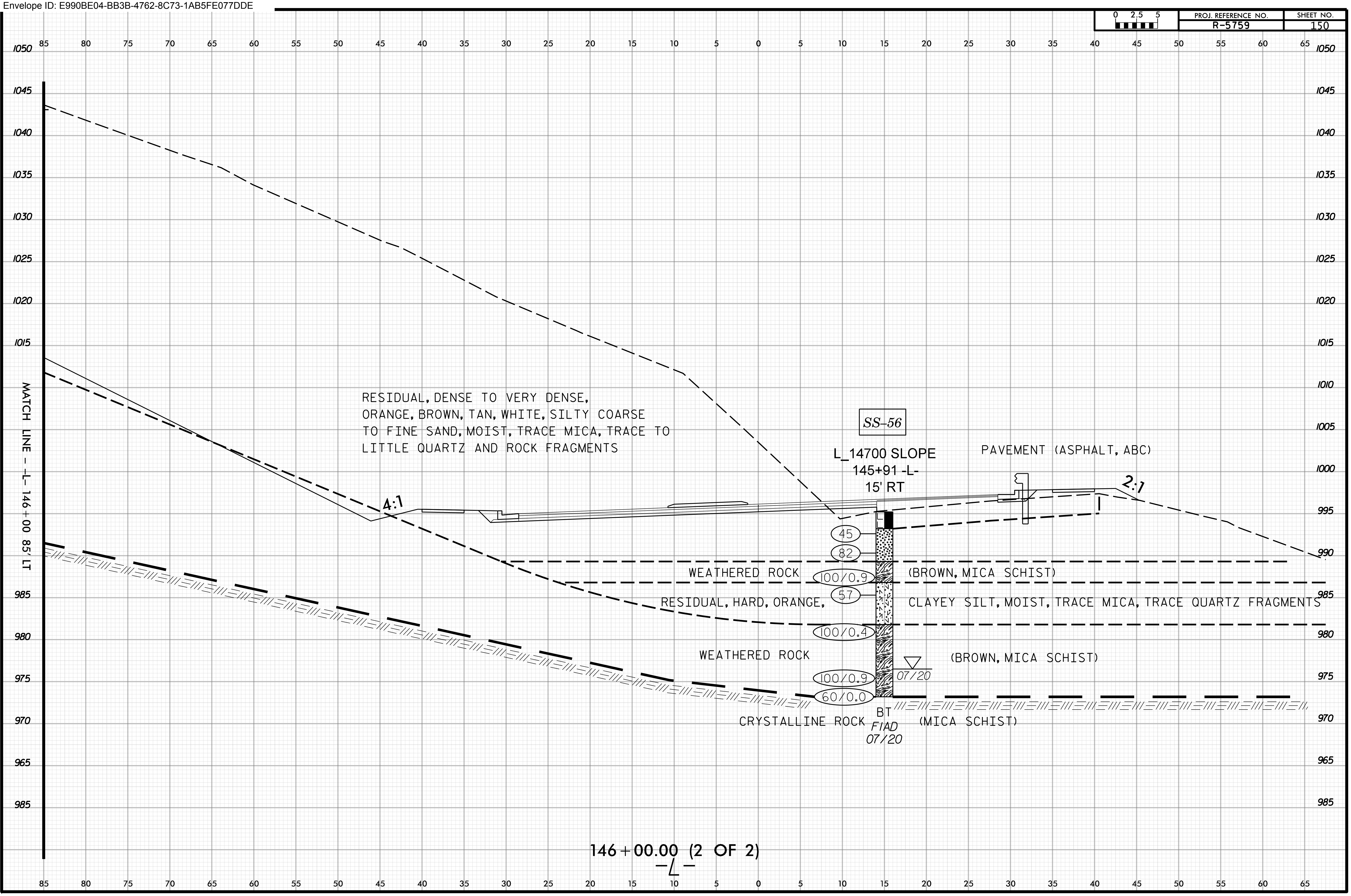
-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	149


0 2.5 5
235 230 225 220 215 210 205 200 195 190 185 180 175 170 165 160 155 150 145 140 135 130 125 120 115 110 105 100 95 90 85
1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990
L_14600
146+00 -L-
161' LT
RESIDUAL, STIFF, RED, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS
ROCK FRAGMENTS, MODERATELY PLASTIC
11
MEDIUM STIFF, ORANGE, GRAY, TAN, CLAYEY SILT, MOIST, TRACE MICA
8
7
LOOSE, GRAY, ORANGE, PINK, SILTY FINE SAND, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS
9
12
STIFF, ORANGE, TAN, BROWN, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
14
2:1
32
DENSE TO VERY DENSE, ORANGE, TAN, WHITE, SILTY FINE TO COARSE SAND,
34
MOIST, TRACE TO LITTLE QUARTZ AND ROCK FRAGMENTS
56
100/0.9
100/0.8
100/0.6
WEATHERED ROCK (WHITE, TAN, PINK, ORANGE, GNEISS)
100/0.7
100/0.9
34
RESIDUAL, HARD, WHITE, TAN, ORANGE, FINE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS
60/0.0
BT
CRYSTALLINE ROCK (GNEISS)
CAVED DRY @ 42.0'
08/20
MATCH LINE -L- 146+00 85' LT

146+00.00 (1 OF 2)
-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	150



146+00.00 (2 OF 2)
-L-

6/23/16

28-AUG-2024 08:57
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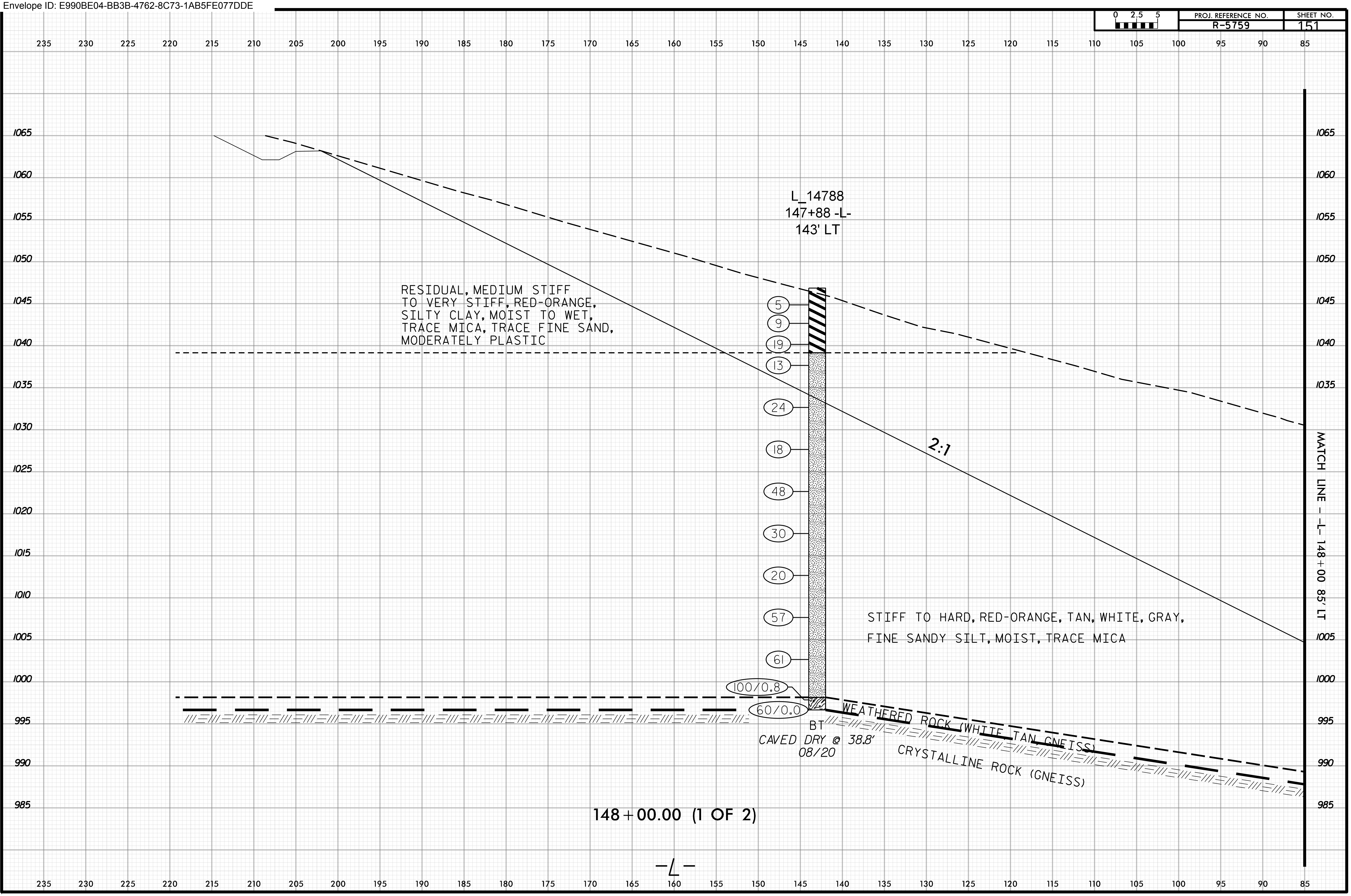
mlhartman AT W00700050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	151



148+00.00 (1 OF 2)

-L-

6/23/16

04-SEP-2024 13:03
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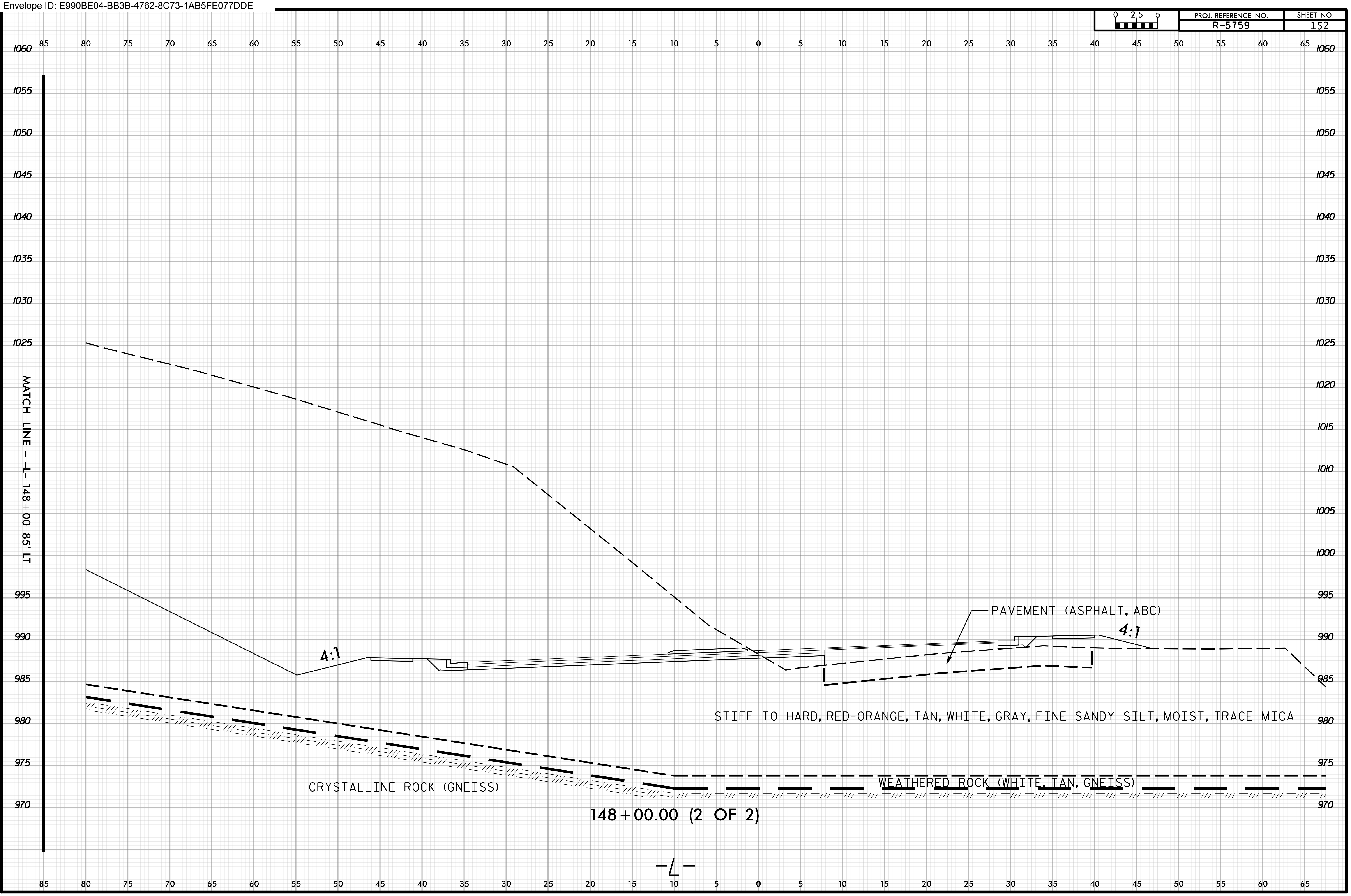
mlhartman AT W00700050699



148+00.00 (2 OF 2)

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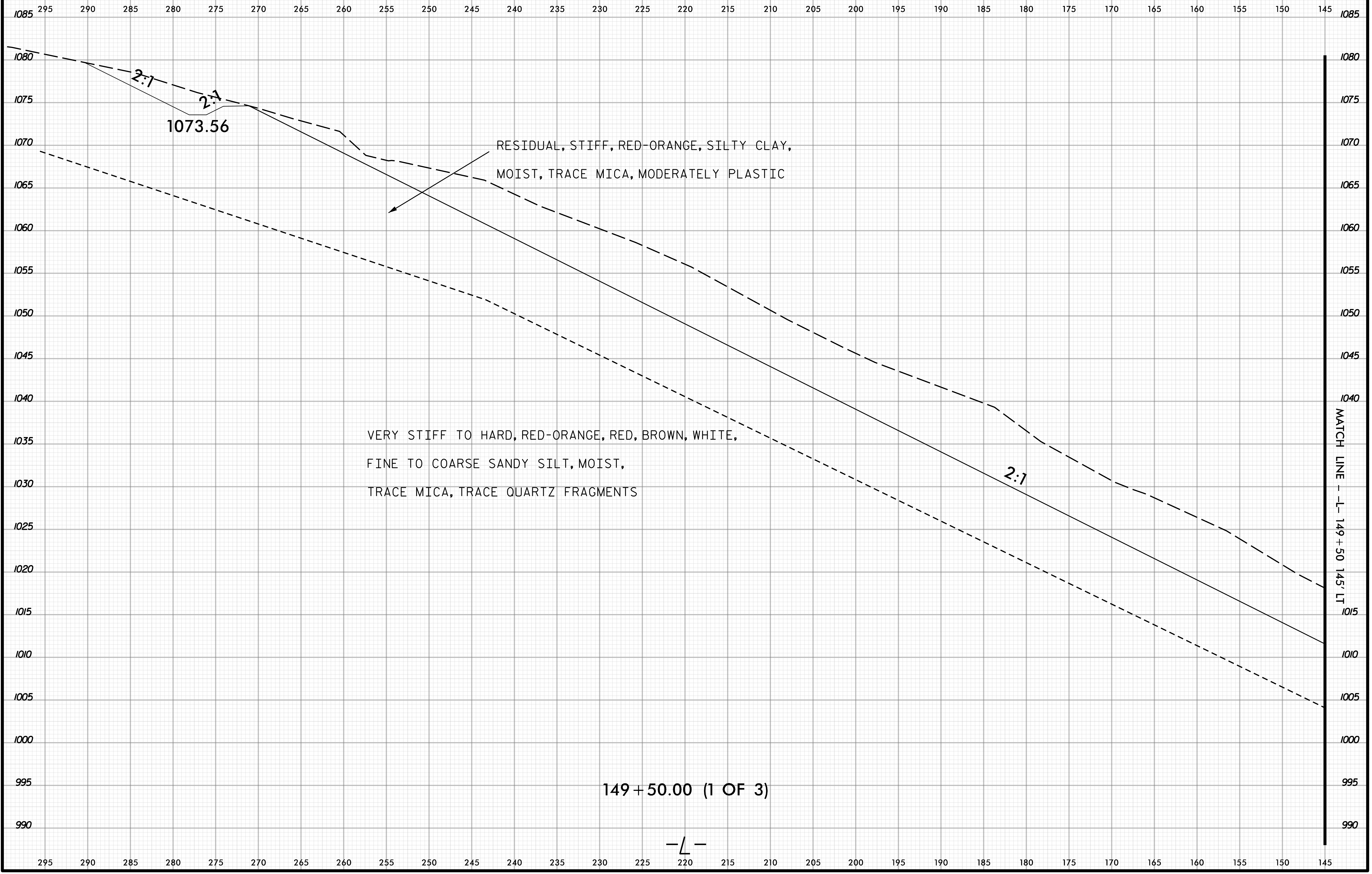
mlhartman AT W0070050699

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	153



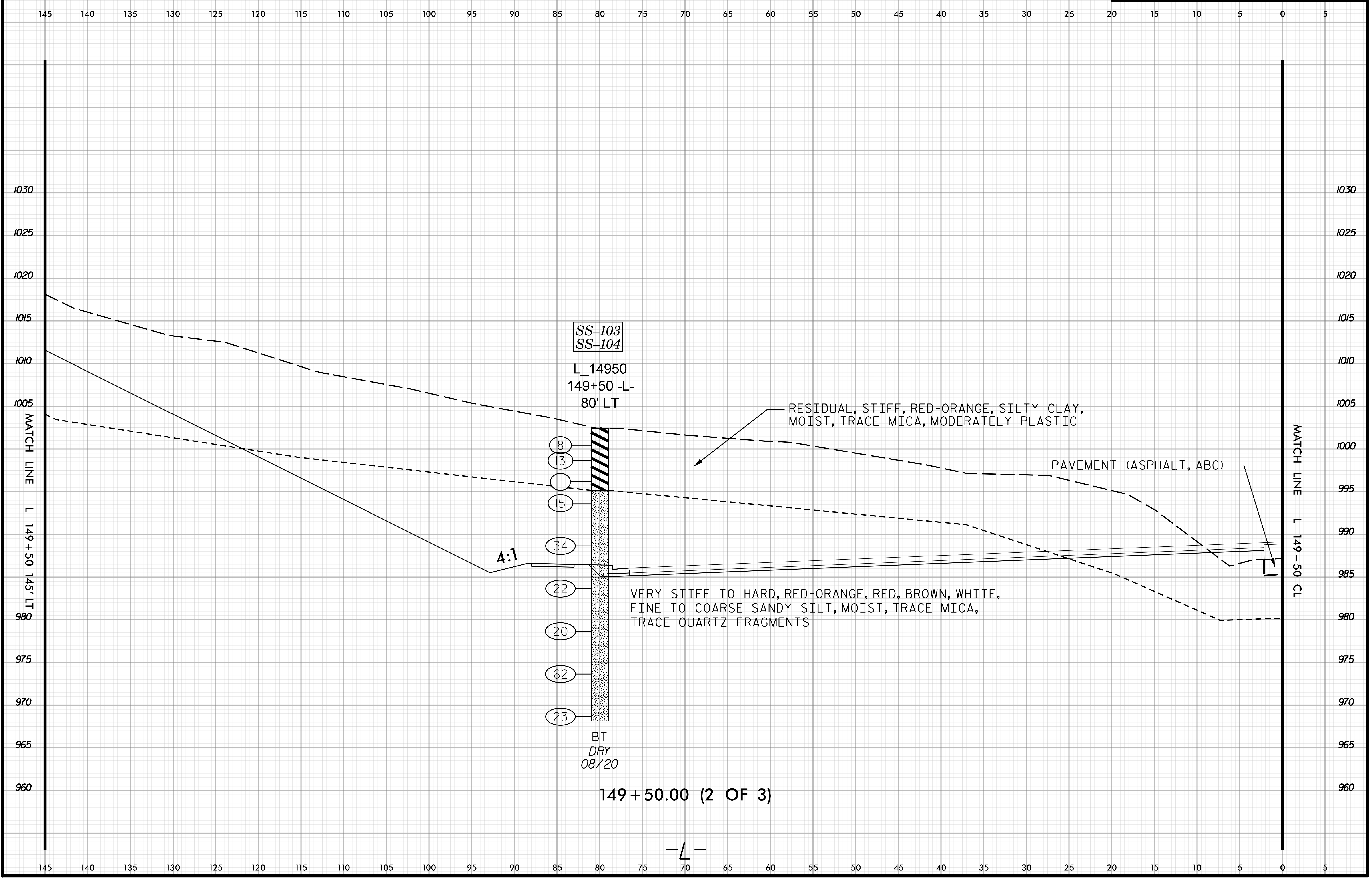
RESIDUAL, STIFF, RED-ORANGE, SILTY CLAY,
MOIST, TRACE MICA, MODERATELY PLASTIC

VERY STIFF TO HARD, RED-ORANGE, RED, BROWN, WHITE,
FINE TO COARSE SANDY SILT, MOIST,
TRACE MICA, TRACE QUARTZ FRAGMENTS

149+50.00 (1 OF 3)

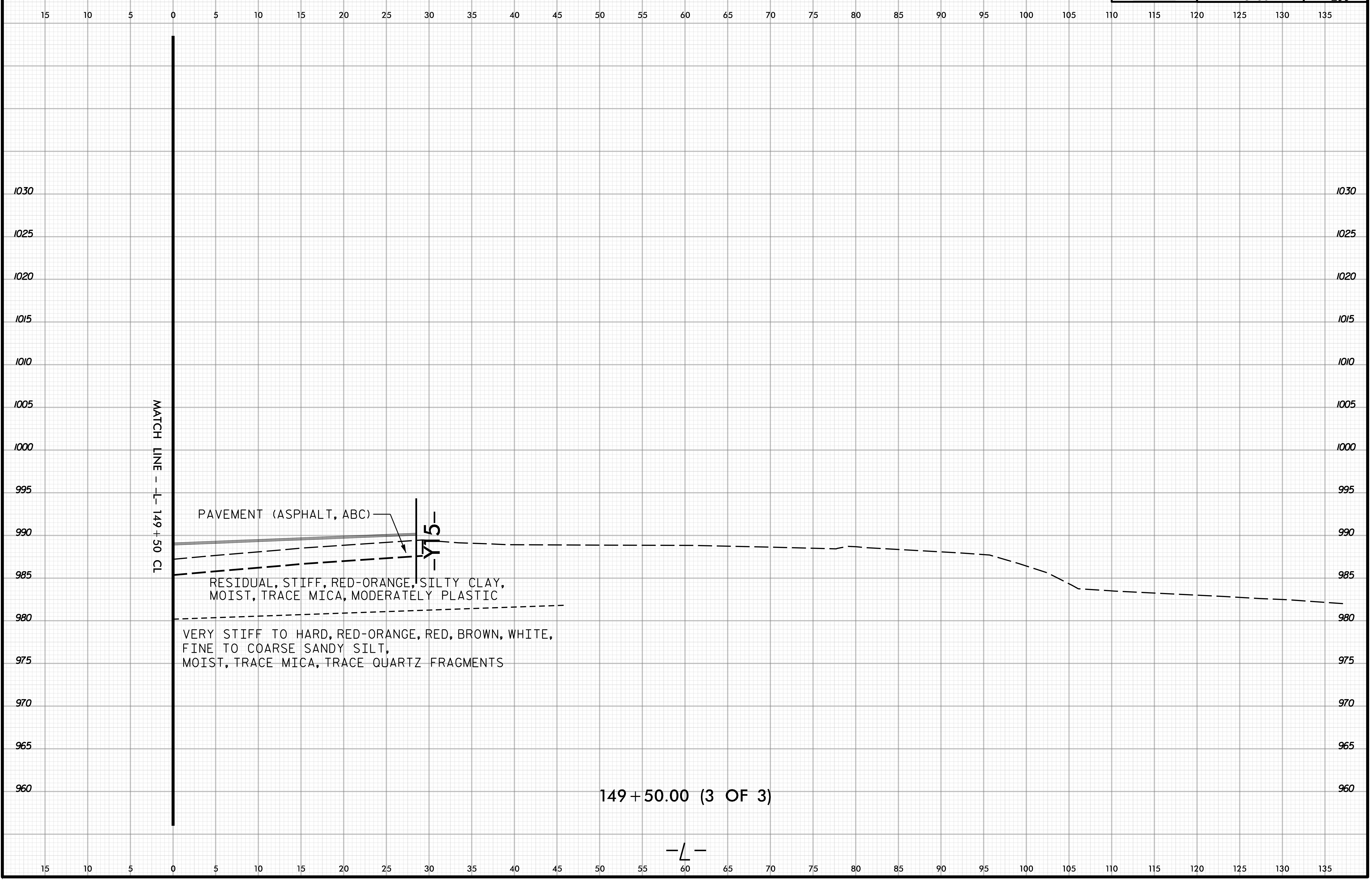
04-SEP-2024 13:03
N:\Projects\2018\7018531?\R5759\R5759_GEO_RDWY_REV\CADD_GEOTECH\xsc\R5759_GEO_RDY_XSI_L.dgn
mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	154


145
140
135
130
125
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
1030
1025
1020
1015
1010
1005
1000
995
990
985
980
975
970
965
960
MATCH LINE - -L- 149+50 145' LT
MATCH LINE - -L- 149+50 CL
SS-103
SS-104
L_14950
149+50 -L-
80' LT
RESIDUAL, STIFF, RED-ORANGE, SILTY CLAY, MOIST, TRACE MICA, MODERATELY PLASTIC
PAVEMENT (ASPHALT, ABC)
8
13
11
15
34
22
20
62
23
4:1
VERY STIFF TO HARD, RED-ORANGE, RED, BROWN, WHITE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS
BT
DRY
08/20
149+50.00 (2 OF 3)
-L-

6/23/16

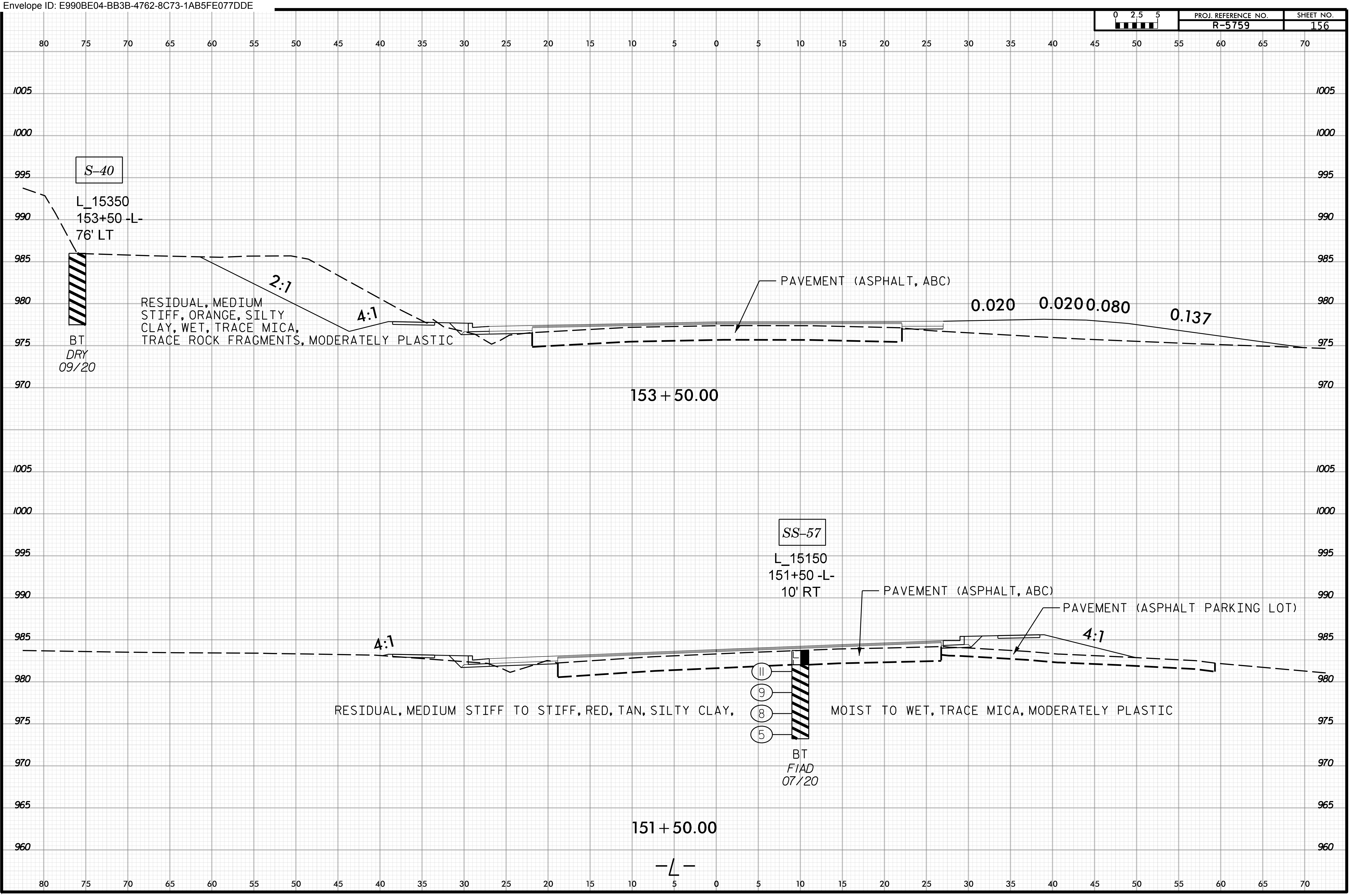
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	155


15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135
1030
1025
1020
1015
1010
1005
1000
995
990
985
980
975
970
965
960
MATCH LINE – -L- 149+50 CL
PAVEMENT (ASPHALT, ABC)
-Y15-
RESIDUAL, STIFF, RED-ORANGE, SILTY CLAY,
MOIST, TRACE MICA, MODERATELY PLASTIC
VERY STIFF TO HARD, RED-ORANGE, RED, BROWN, WHITE,
FINE TO COARSE SANDY SILT,
MOIST, TRACE MICA, TRACE QUARTZ FRAGMENTS

149+50.00 (3 OF 3)

-L-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	156



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mlhartman AT W007005069

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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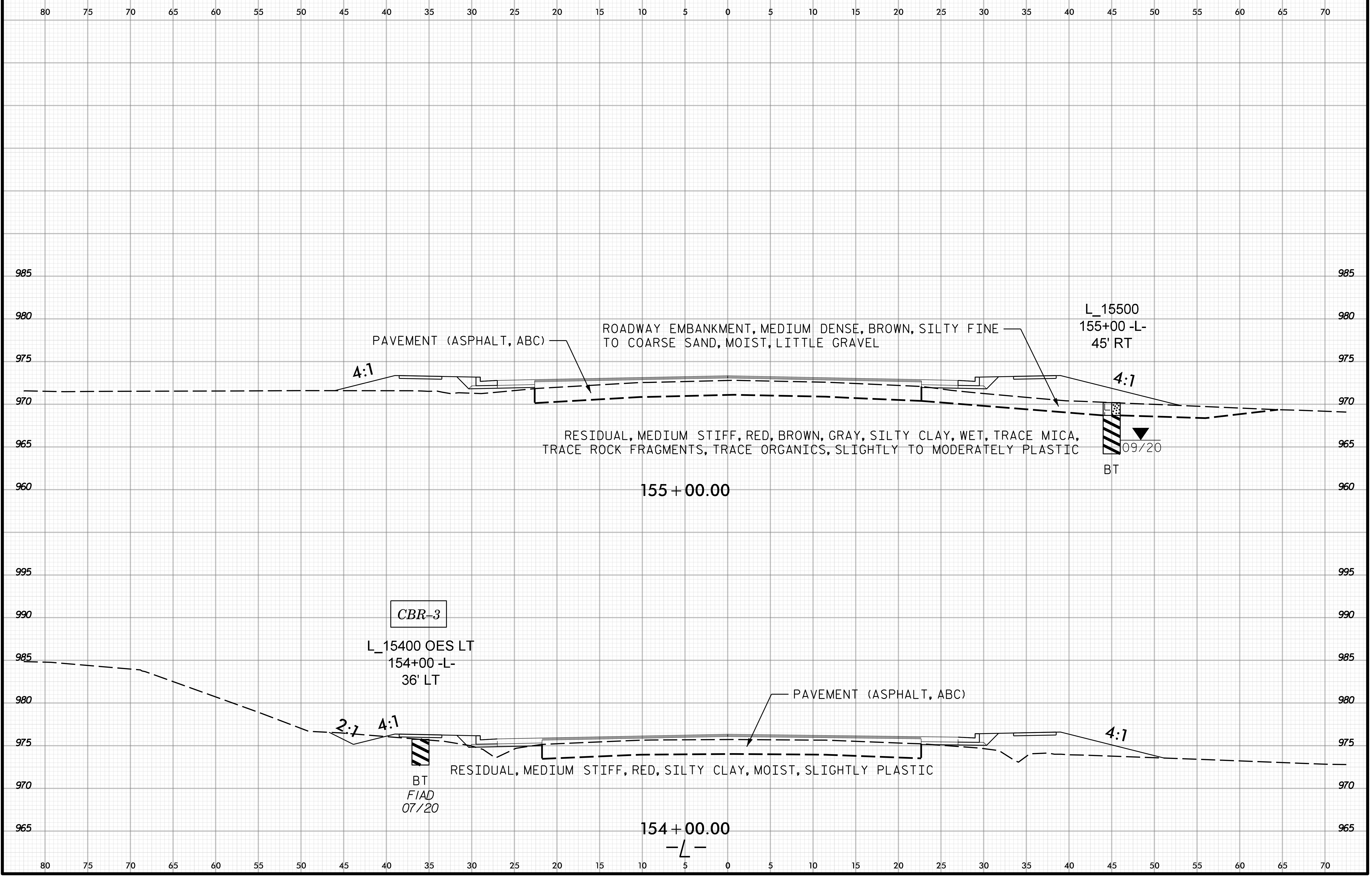
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
985
980
975
970
965
960
L_15500
155+00 -L-
45' RT
ROADWAY EMBANKMENT, MEDIUM DENSE, BROWN, SILTY FINE TO COARSE SAND, MOIST, LITTLE GRAVEL
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, MEDIUM STIFF, RED, BROWN, GRAY, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, TRACE ORGANICS, SLIGHTLY TO MODERATELY PLASTIC
09/20
BT
995
990
985
980
975
970
965
CBR-3
L_15400 OES LT
154+00 -L-
36' LT
PAVEMENT (ASPHALT, ABC)
2:1
4:1
4:1
BT
FIAD
07/20
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, MOIST, SLIGHTLY PLASTIC

155+00.00

154+00.00

-L-

28-AUG-2024 08:57
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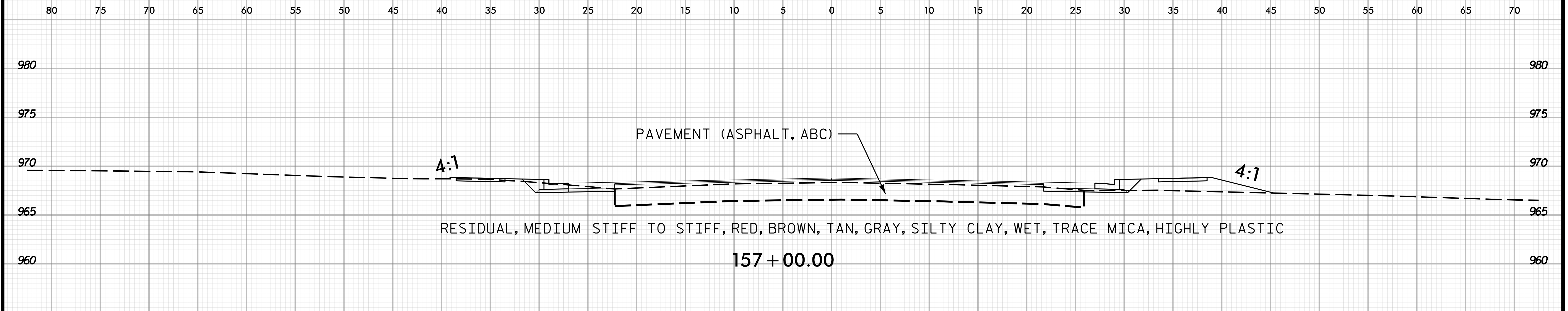
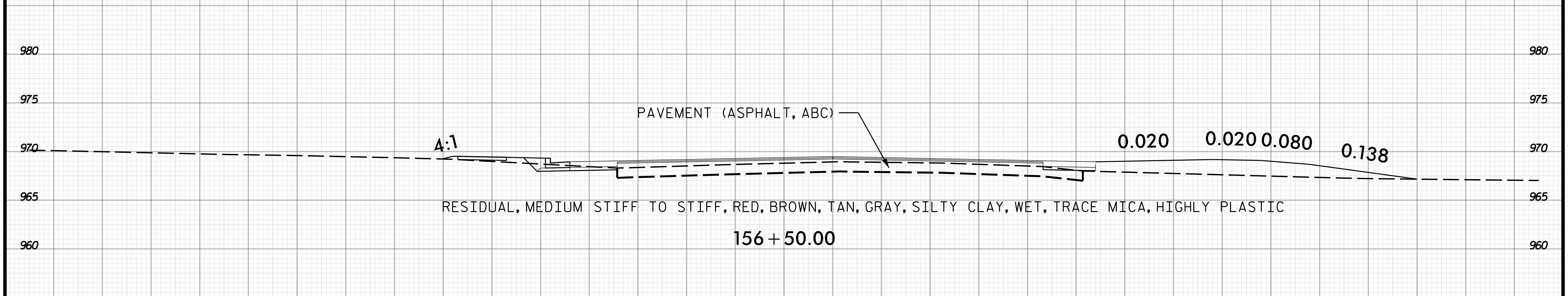
mlhartman AT W0070050699

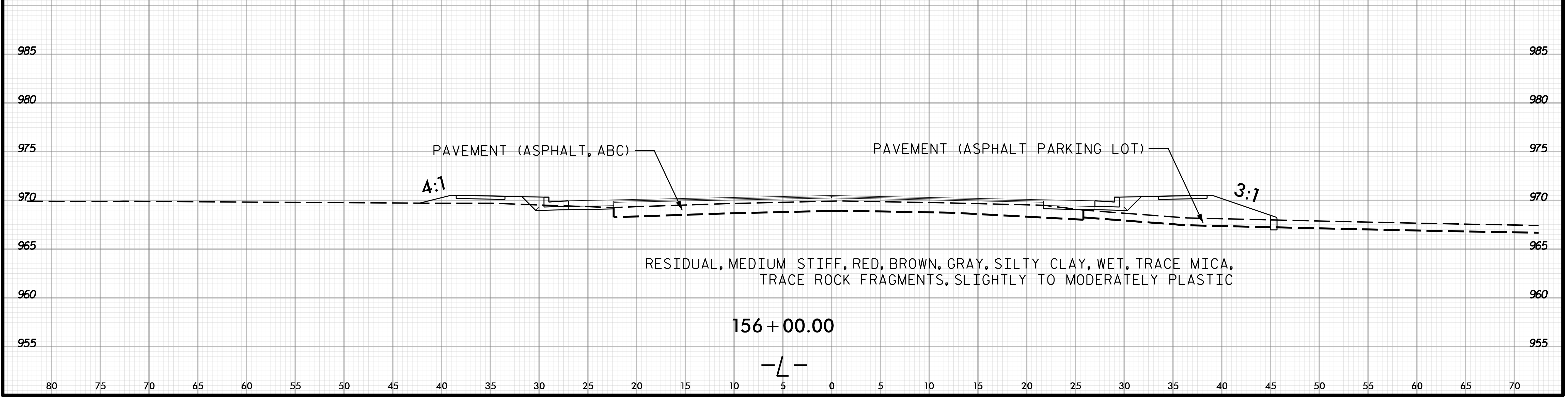
0 2.5 5



157+00.00


980
975
970
965
960
PAVEMENT (ASPHALT, ABC)
4:1
0.020
0.020
0.080
0.138
RESIDUAL, MEDIUM STIFF TO STIFF, RED, BROWN, TAN, GRAY, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC

156+50.00


985
980
975
970
965
960
955
PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT PARKING LOT)
4:1
3:1
RESIDUAL, MEDIUM STIFF, RED, BROWN, GRAY, SILTY CLAY, WET, TRACE MICA,
TRACE ROCK FRAGMENTS, SLIGHTLY TO MODERATELY PLASTIC
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70

156+00.00

-L-

6/23/16

28-AUG-2024 08:57
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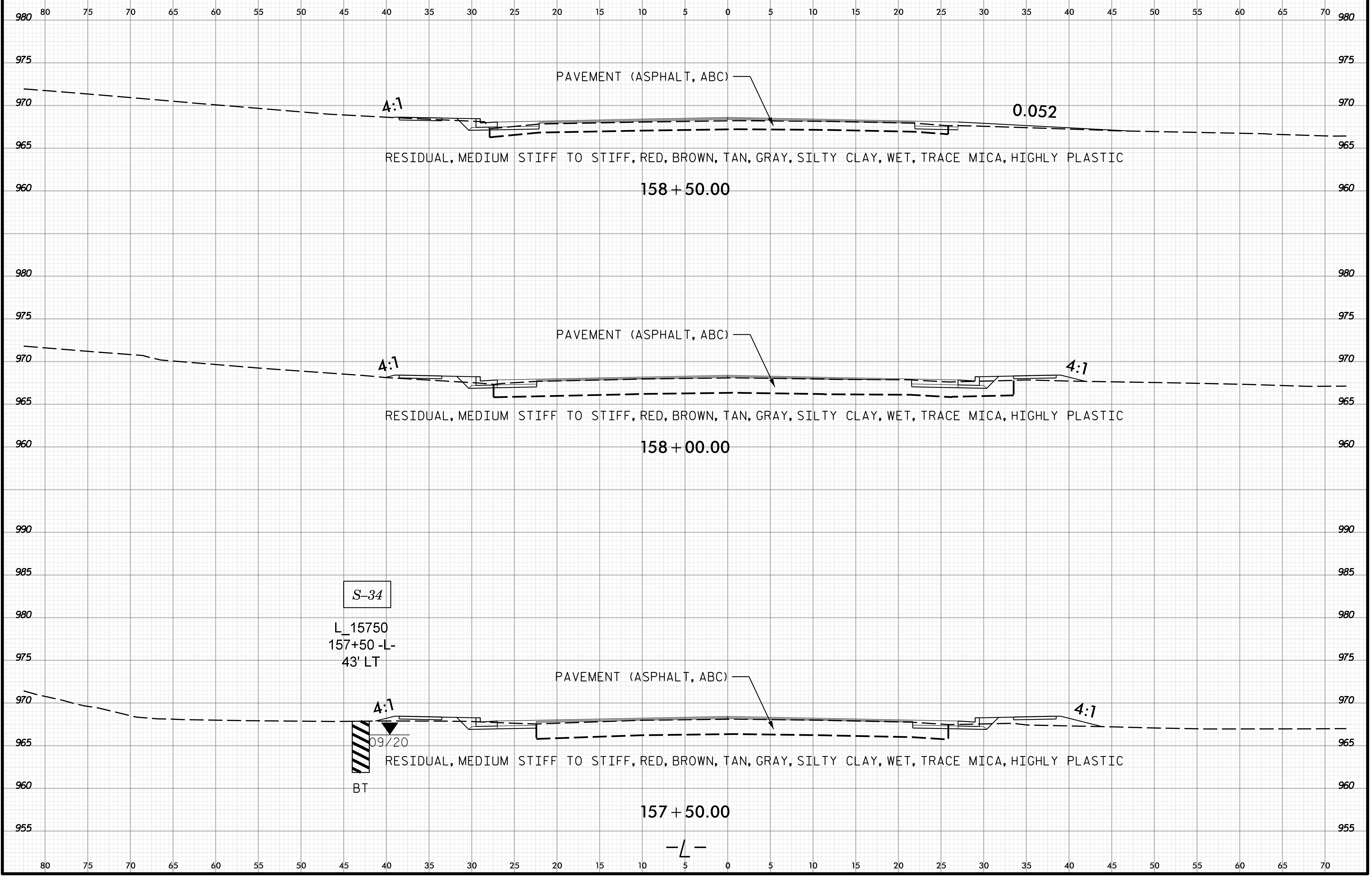
mlhartman AT W00700500699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	159

6/23/16



PAVEMENT (ASPHALT, ABC)
4:1
0.052
RESIDUAL, MEDIUM STIFF TO STIFF, RED, BROWN, TAN, GRAY, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
158+50.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, RED, BROWN, TAN, GRAY, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
158+00.00
S-34
L_15750
157+50 -L-
43' LT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
09/20
RESIDUAL, MEDIUM STIFF TO STIFF, RED, BROWN, TAN, GRAY, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
BT
157+50.00
-L-
980
975
970
965
960
990
985
955
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

28-AUG-2024 08:57
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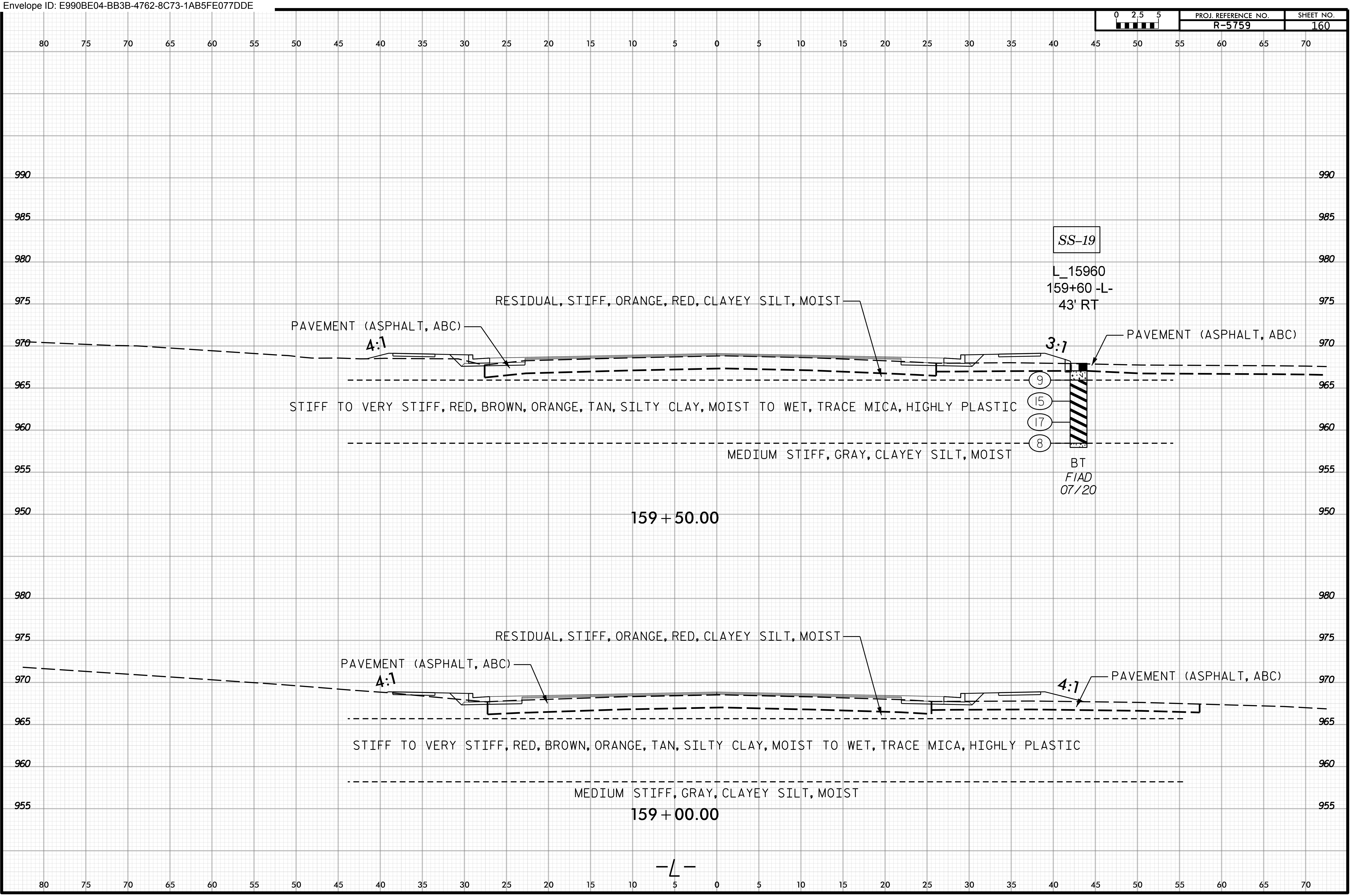
mlhartman AT W007005069



0 2.5 5
990
985
980
975
970
965
960
955
950
SS-19
L_15960
159+60 -L-
43' RT
RESIDUAL, STIFF, ORANGE, RED, CLAYEY SILT, MOIST
PAVEMENT (ASPHALT, ABC)
4:1
3:1
PAVEMENT (ASPHALT, ABC)
9
15
17
8
STIFF TO VERY STIFF, RED, BROWN, ORANGE, TAN, SILTY CLAY, MOIST TO WET, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, GRAY, CLAYEY SILT, MOIST
BT
FIAD
07/20
159+50.00
RESIDUAL, STIFF, ORANGE, RED, CLAYEY SILT, MOIST
PAVEMENT (ASPHALT, ABC)
4:1
4:1
PAVEMENT (ASPHALT, ABC)
STIFF TO VERY STIFF, RED, BROWN, ORANGE, TAN, SILTY CLAY, MOIST TO WET, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, GRAY, CLAYEY SILT, MOIST
159+00.00
-L-
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

6/23/16
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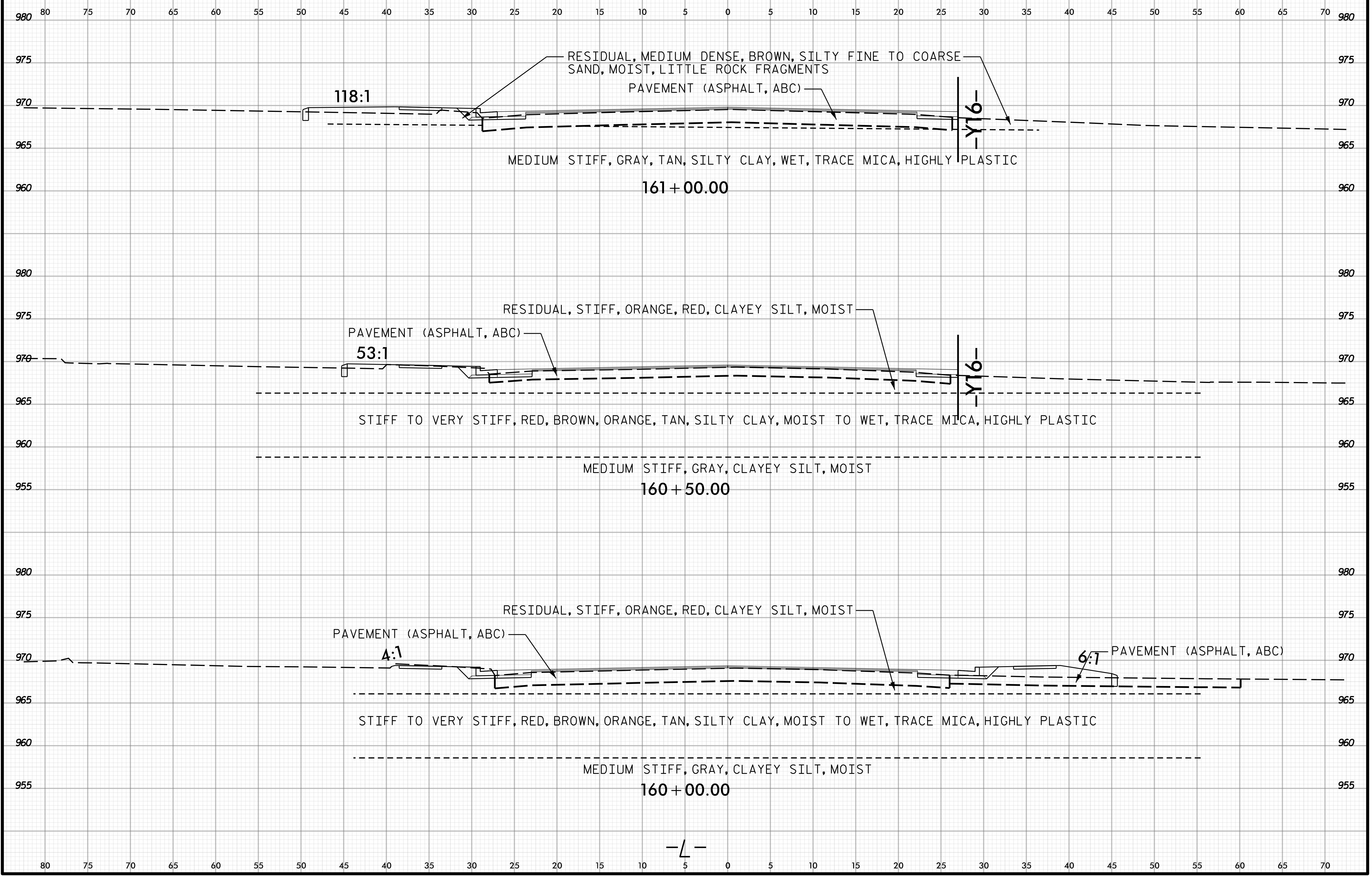
mlhartman AT W00700050699


980
975
970
965
960
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
RESIDUAL, MEDIUM DENSE, BROWN, SILTY FINE TO COARSE SAND, MOIST, LITTLE ROCK FRAGMENTS
PAVEMENT (ASPHALT, ABC)
118:1
-Y16-
MEDIUM STIFF, GRAY, TAN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
161+00.00
980
975
970
965
960
955
RESIDUAL, STIFF, ORANGE, RED, CLAYEY SILT, MOIST
PAVEMENT (ASPHALT, ABC)
53:1
-Y16-
STIFF TO VERY STIFF, RED, BROWN, ORANGE, TAN, SILTY CLAY, MOIST TO WET, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, GRAY, CLAYEY SILT, MOIST
160+50.00
980
975
970
965
960
955
RESIDUAL, STIFF, ORANGE, RED, CLAYEY SILT, MOIST
PAVEMENT (ASPHALT, ABC)
4:1
6:1
PAVEMENT (ASPHALT, ABC)
STIFF TO VERY STIFF, RED, BROWN, ORANGE, TAN, SILTY CLAY, MOIST TO WET, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, GRAY, CLAYEY SILT, MOIST
160+00.00
-L-
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

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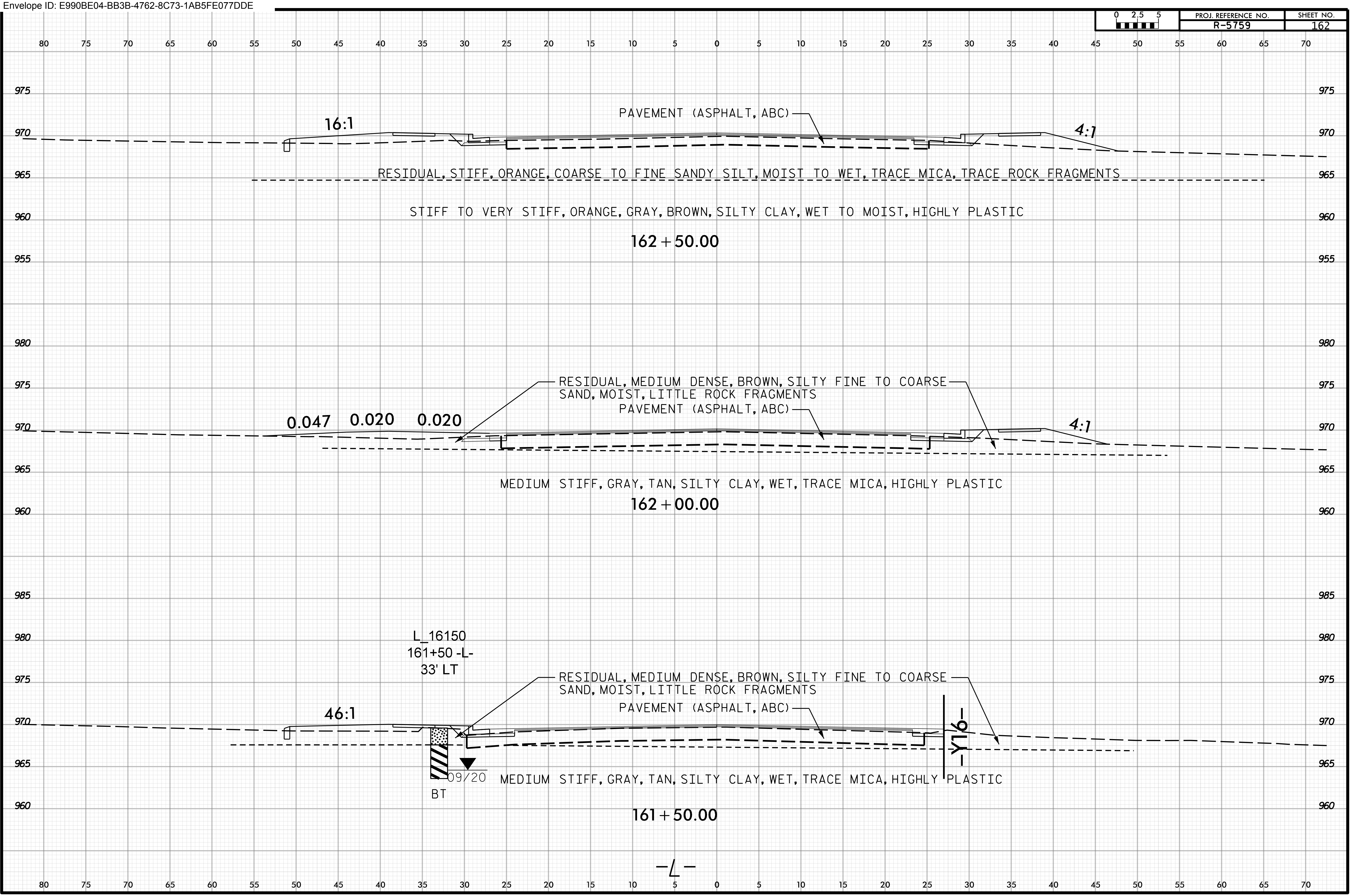
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80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
975
970
965
960
955
16:1
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, STIFF, ORANGE, COARSE TO FINE SANDY SILT, MOIST TO WET, TRACE MICA, TRACE ROCK FRAGMENTS
STIFF TO VERY STIFF, ORANGE, GRAY, BROWN, SILTY CLAY, WET TO MOIST, HIGHLY PLASTIC
162 + 50.00
980
975
970
965
960
RESIDUAL, MEDIUM DENSE, BROWN, SILTY FINE TO COARSE SAND, MOIST, LITTLE ROCK FRAGMENTS
PAVEMENT (ASPHALT, ABC)
0.047
0.020
0.020
4:1
MEDIUM STIFF, GRAY, TAN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
162 + 00.00
985
980
975
970
965
960
L_16150
161+50 -L-
33' LT
46:1
RESIDUAL, MEDIUM DENSE, BROWN, SILTY FINE TO COARSE SAND, MOIST, LITTLE ROCK FRAGMENTS
PAVEMENT (ASPHALT, ABC)
-Y16-
09/20
BT
MEDIUM STIFF, GRAY, TAN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
161 + 50.00
-L-
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

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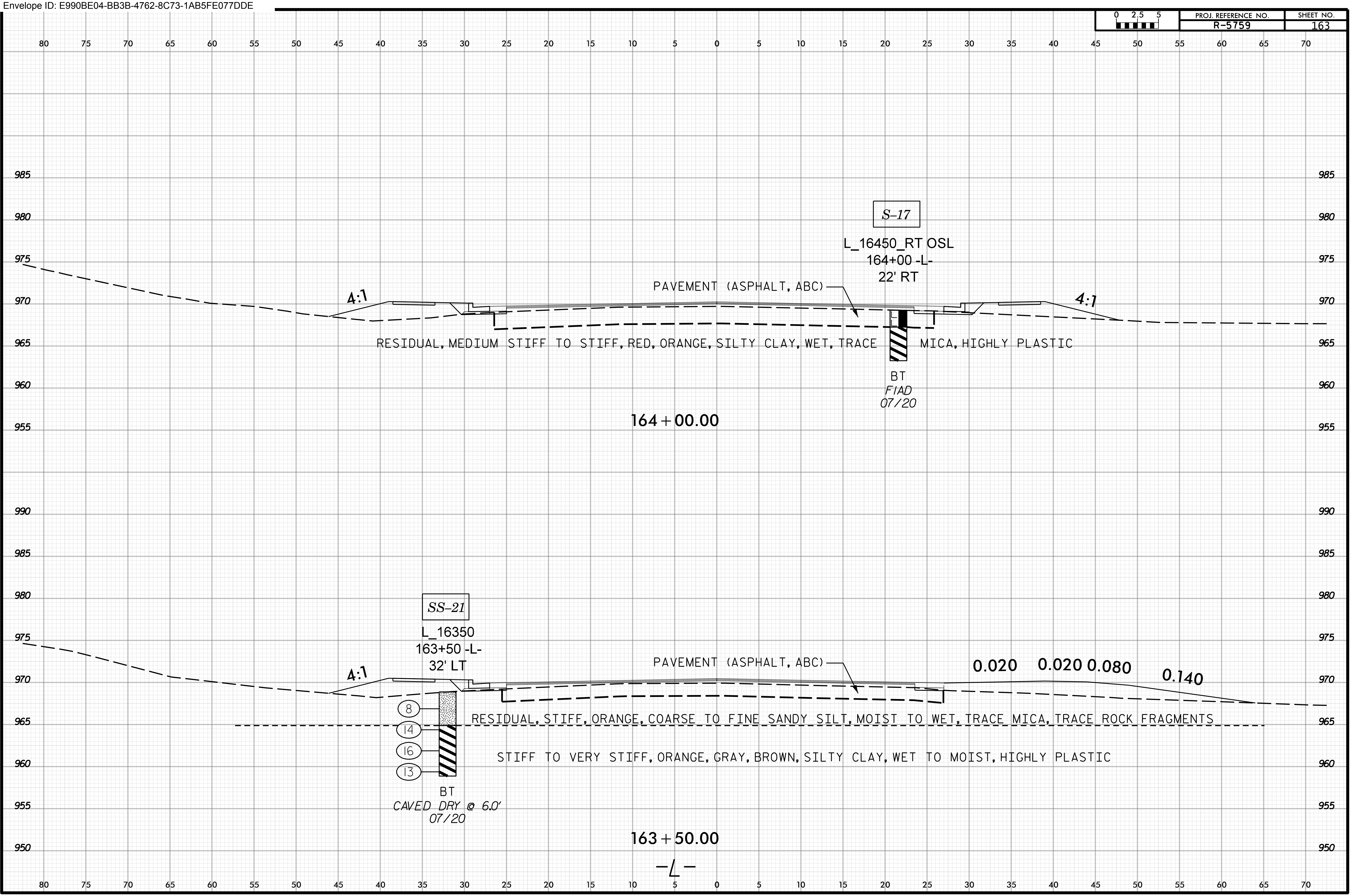

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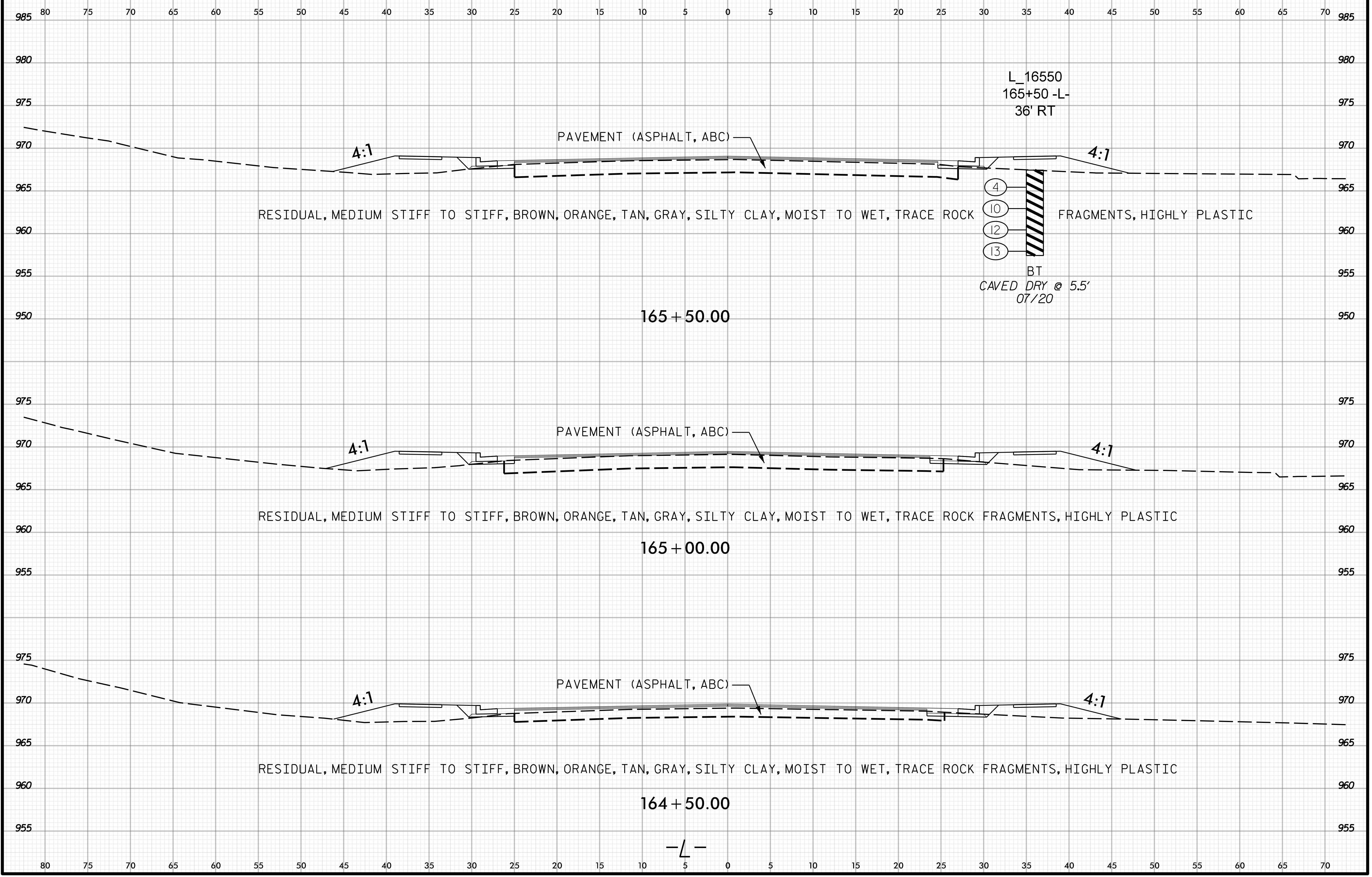

L_16550
165+50 -L-
36' RT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4
10
12
13
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
BT
CAVED DRY @ 5.5'
07/20
165+50.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
165+00.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
164+50.00
-L-
985
980
975
970
965
960
955
950
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

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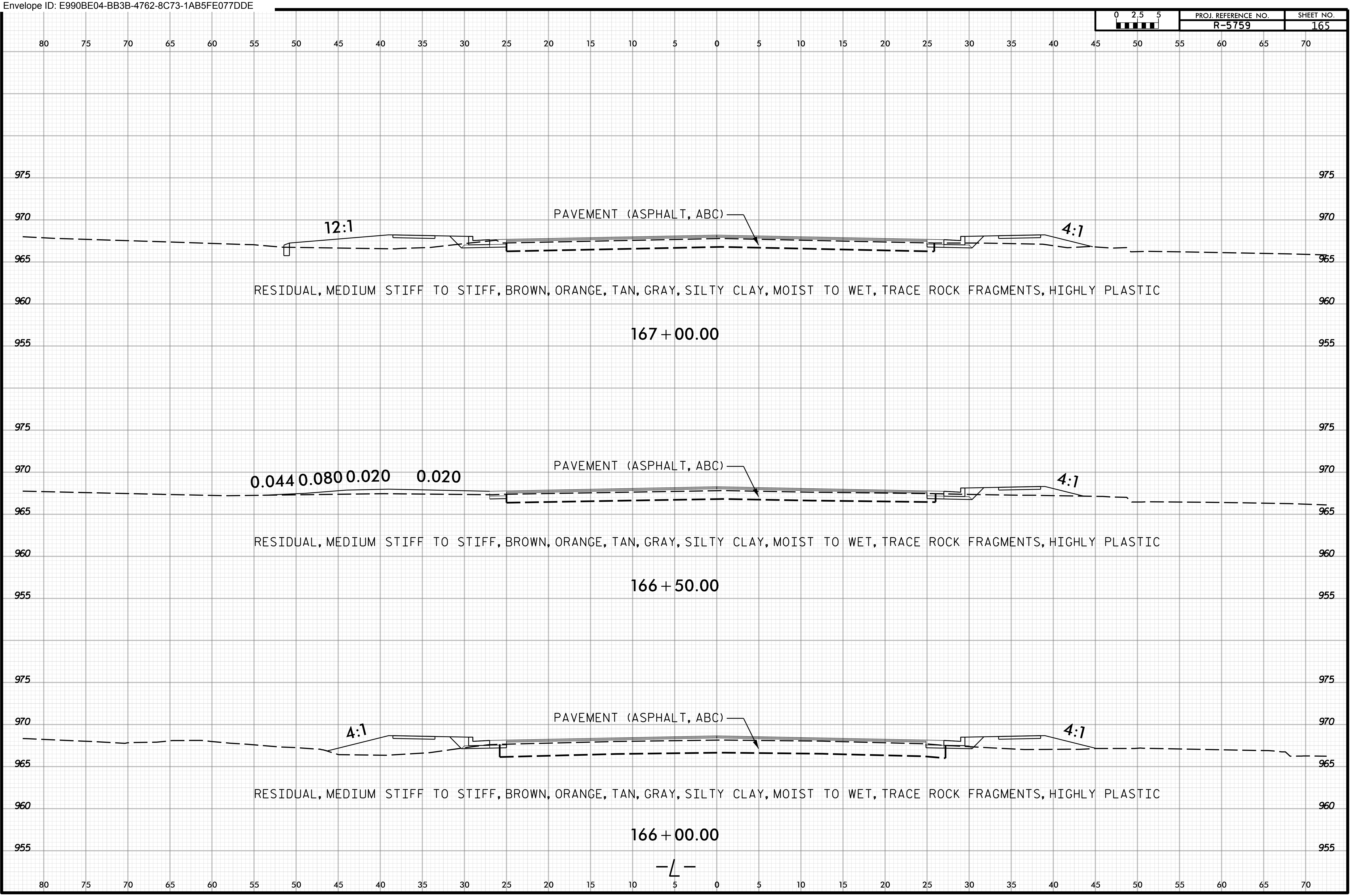
0 2.5 5
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
975
970
965
960
955
12:1
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
167+00.00
0.044 0.080 0.020 0.020
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
166+50.00
4:1
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
166+00.00
-L-

6/23/16

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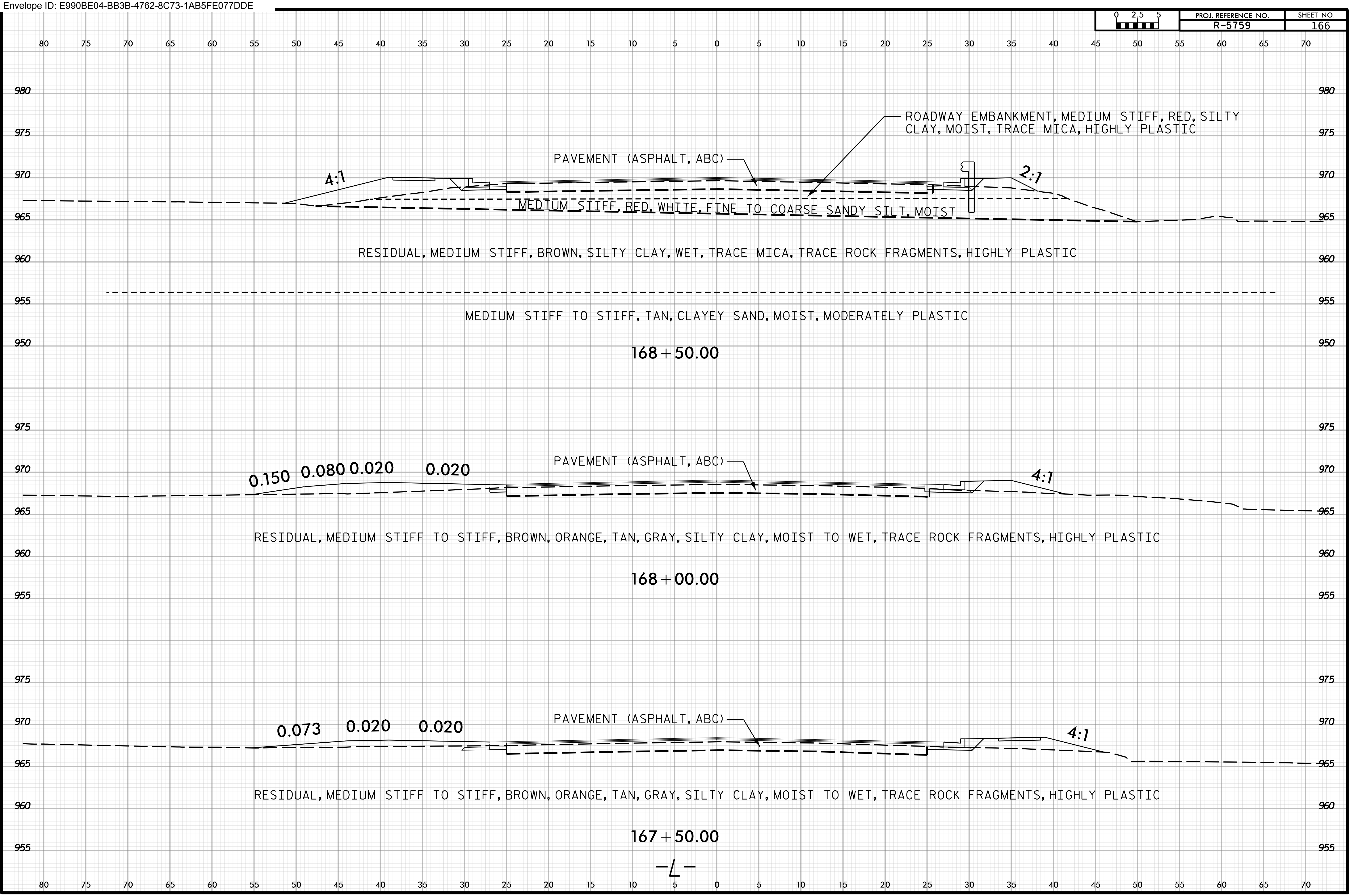
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70
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60
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5
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5
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20
25
30
35
40
45
50
55
60
65
70
980
975
970
965
960
955
950
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
2:1
MEDIUM STIFF, RED, WHITE, FINE TO COARSE SANDY SILT, MOIST
RESIDUAL, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, TAN, CLAYEY SAND, MOIST, MODERATELY PLASTIC
168 + 50.00
975
970
965
960
955
0.150
0.080
0.020
0.020
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
168 + 00.00
975
970
965
960
955
0.073
0.020
0.020
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, TAN, GRAY, SILTY CLAY, MOIST TO WET, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
167 + 50.00
-L-

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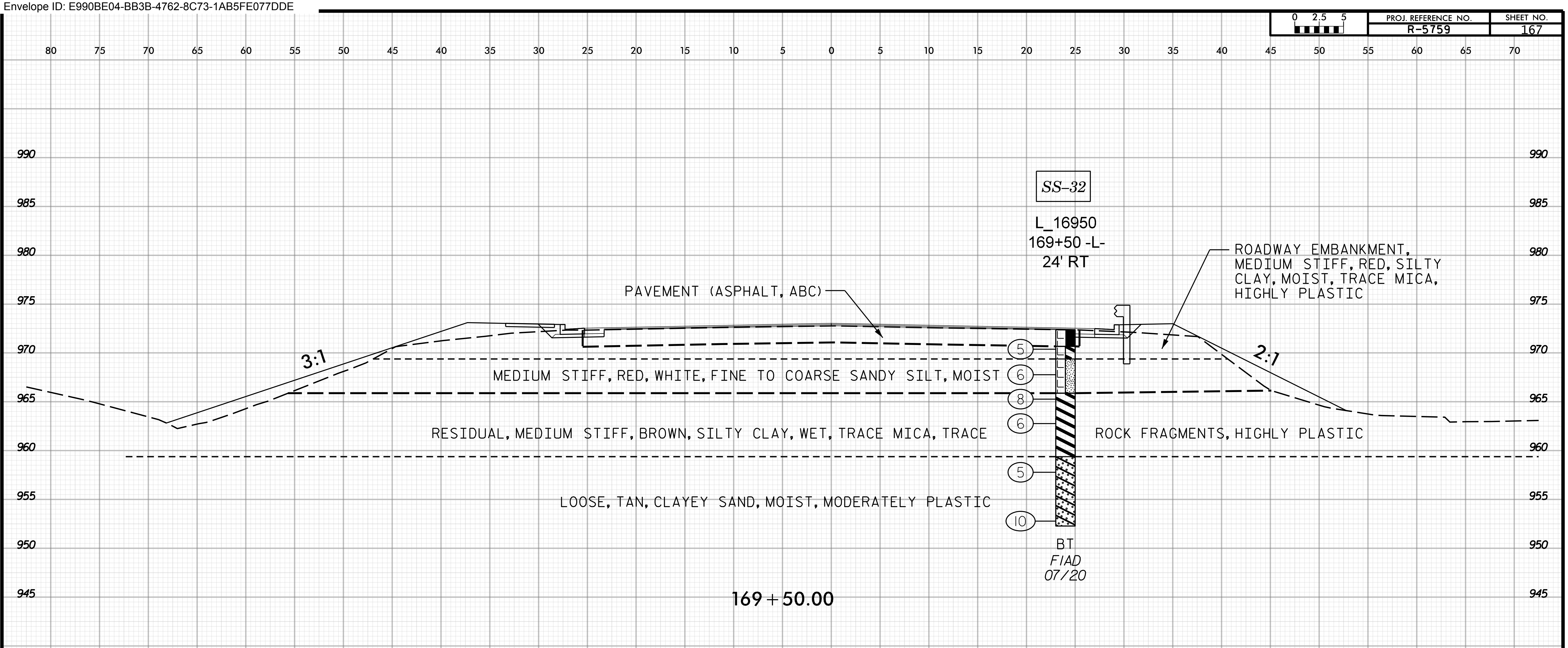
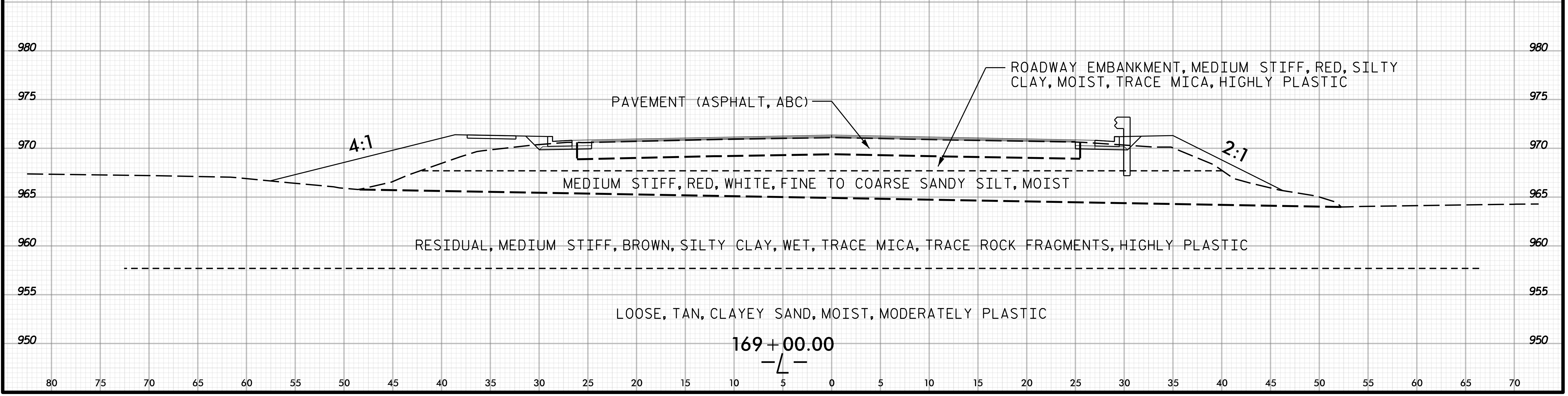

0 2.5 5
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
990
985
980
975
970
965
960
955
950
945
SS-32
L_16950
169+50 -L-
24' RT
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
3:1
2:1
5
6
8
6
5
10
MEDIUM STIFF, RED, WHITE, FINE TO COARSE SANDY SILT, MOIST
RESIDUAL, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
LOOSE, TAN, CLAYEY SAND, MOIST, MODERATELY PLASTIC
BT
FIAD
07/20
169+50.00


980
975
970
965
960
955
950
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
2:1
MEDIUM STIFF, RED, WHITE, FINE TO COARSE SANDY SILT, MOIST
RESIDUAL, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
LOOSE, TAN, CLAYEY SAND, MOIST, MODERATELY PLASTIC
169+00.00
-L-
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6/23/16

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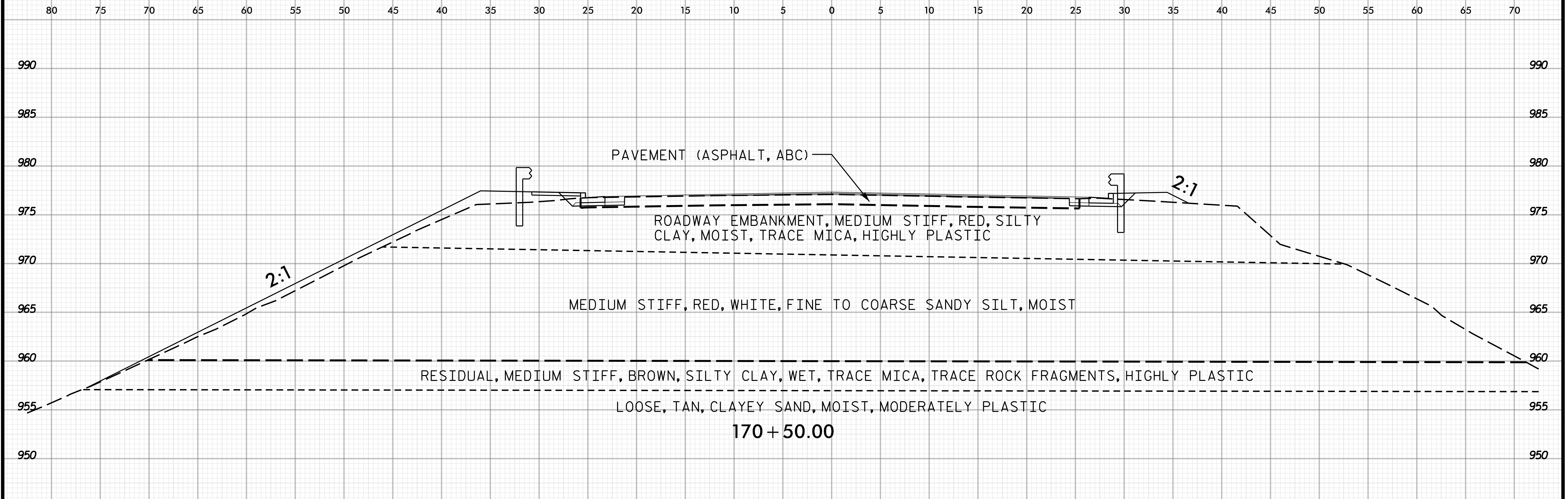
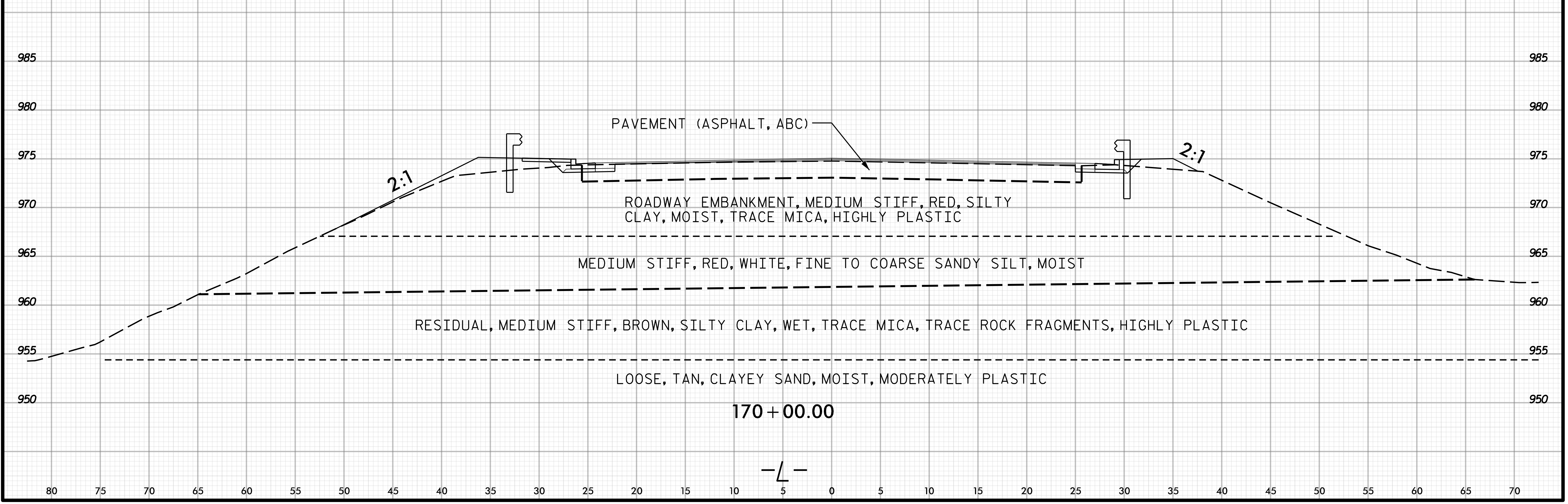

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70
990
985
980
975
970
965
960
955
950
PAVEMENT (ASPHALT, ABC)
2:1
2:1
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, RED, WHITE, FINE TO COARSE SANDY SILT, MOIST
RESIDUAL, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
LOOSE, TAN, CLAYEY SAND, MOIST, MODERATELY PLASTIC

170+50.00


985
980
975
970
965
960
955
950
PAVEMENT (ASPHALT, ABC)
2:1
2:1
ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, RED, WHITE, FINE TO COARSE SANDY SILT, MOIST
RESIDUAL, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
LOOSE, TAN, CLAYEY SAND, MOIST, MODERATELY PLASTIC
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

170+00.00

-L-

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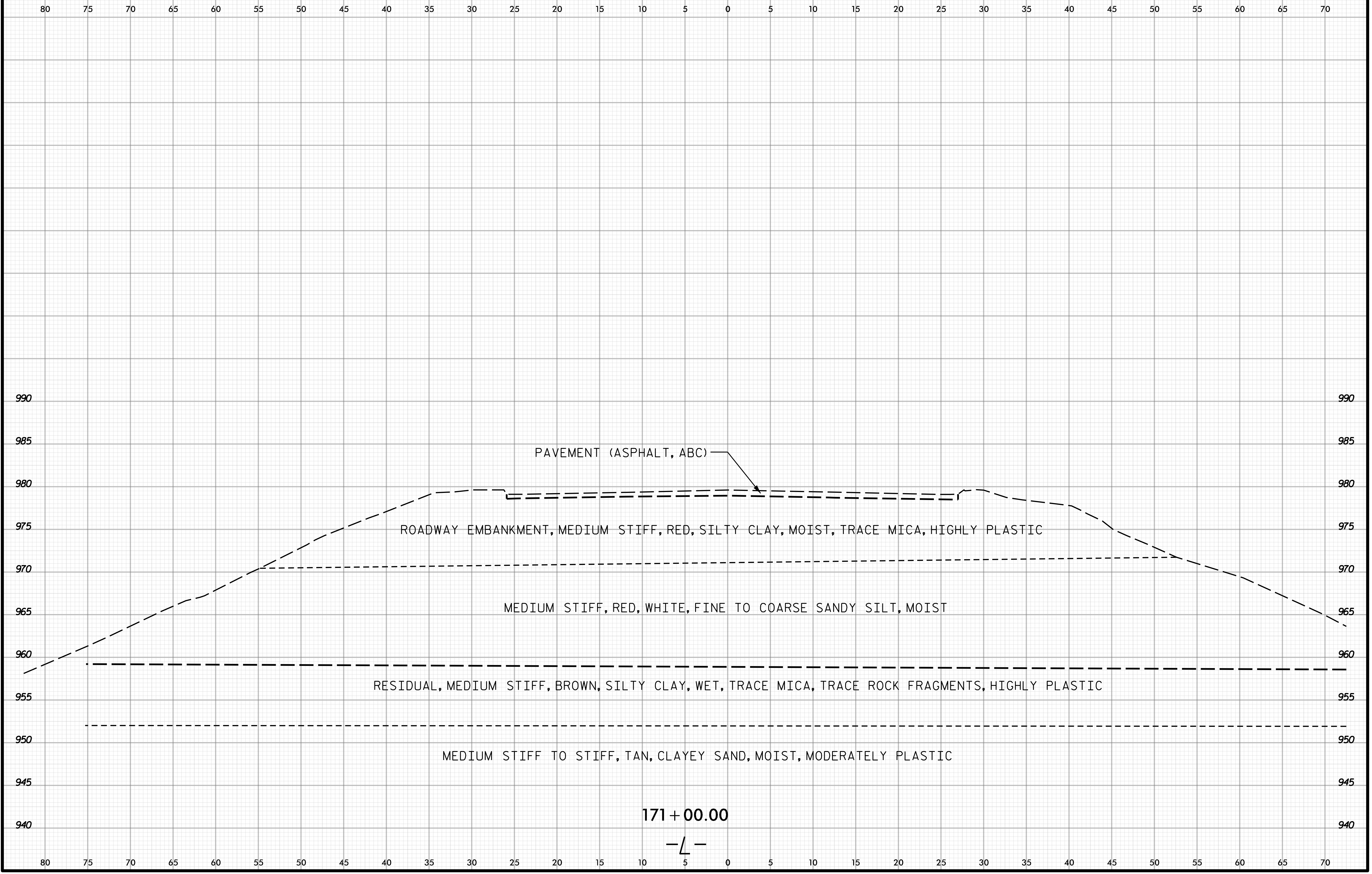
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ROADWAY EMBANKMENT, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, RED, WHITE, FINE TO COARSE SANDY SILT, MOIST
RESIDUAL, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, TAN, CLAYEY SAND, MOIST, MODERATELY PLASTIC

171+00.00

-L-

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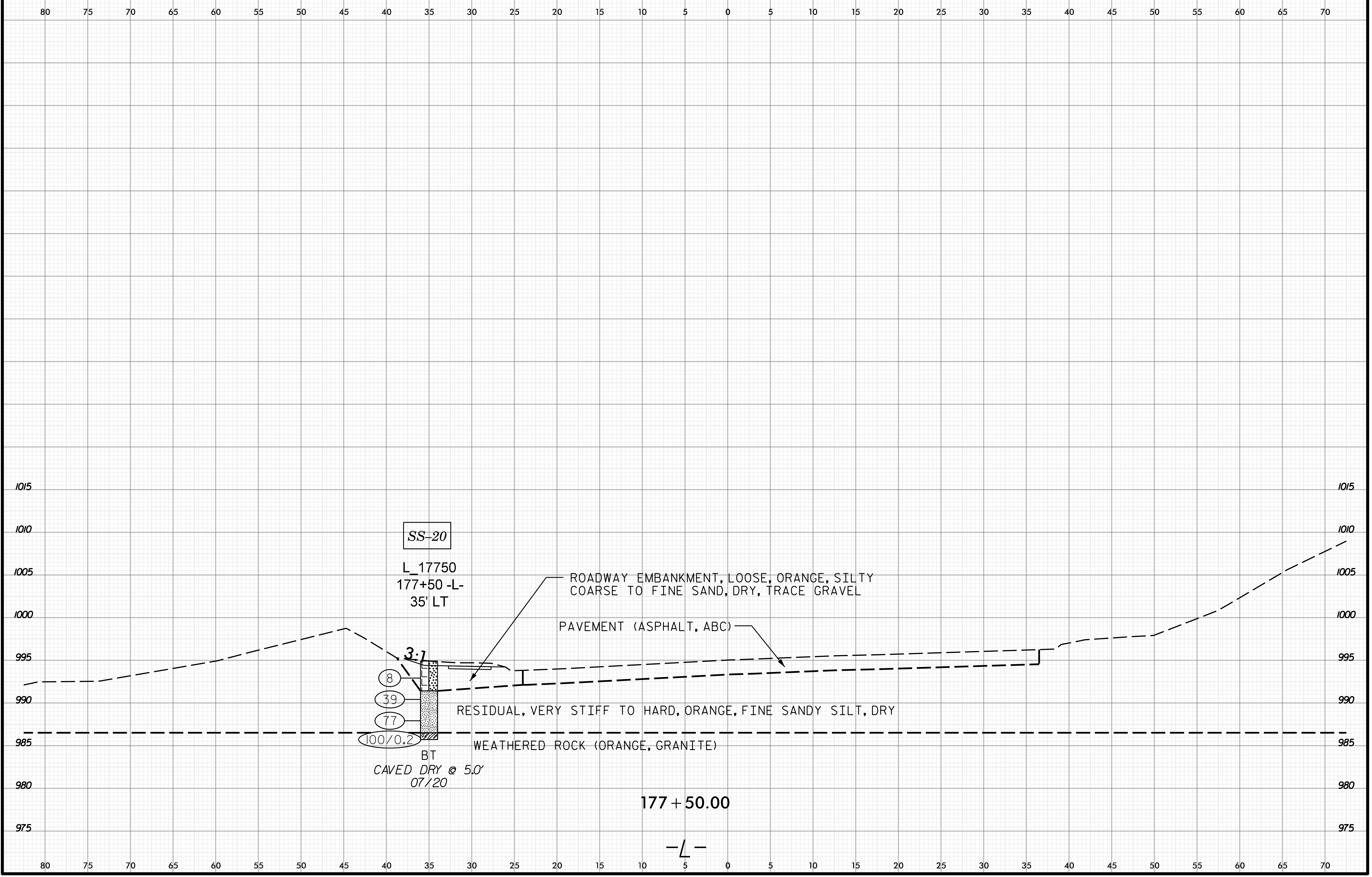
6/23/16



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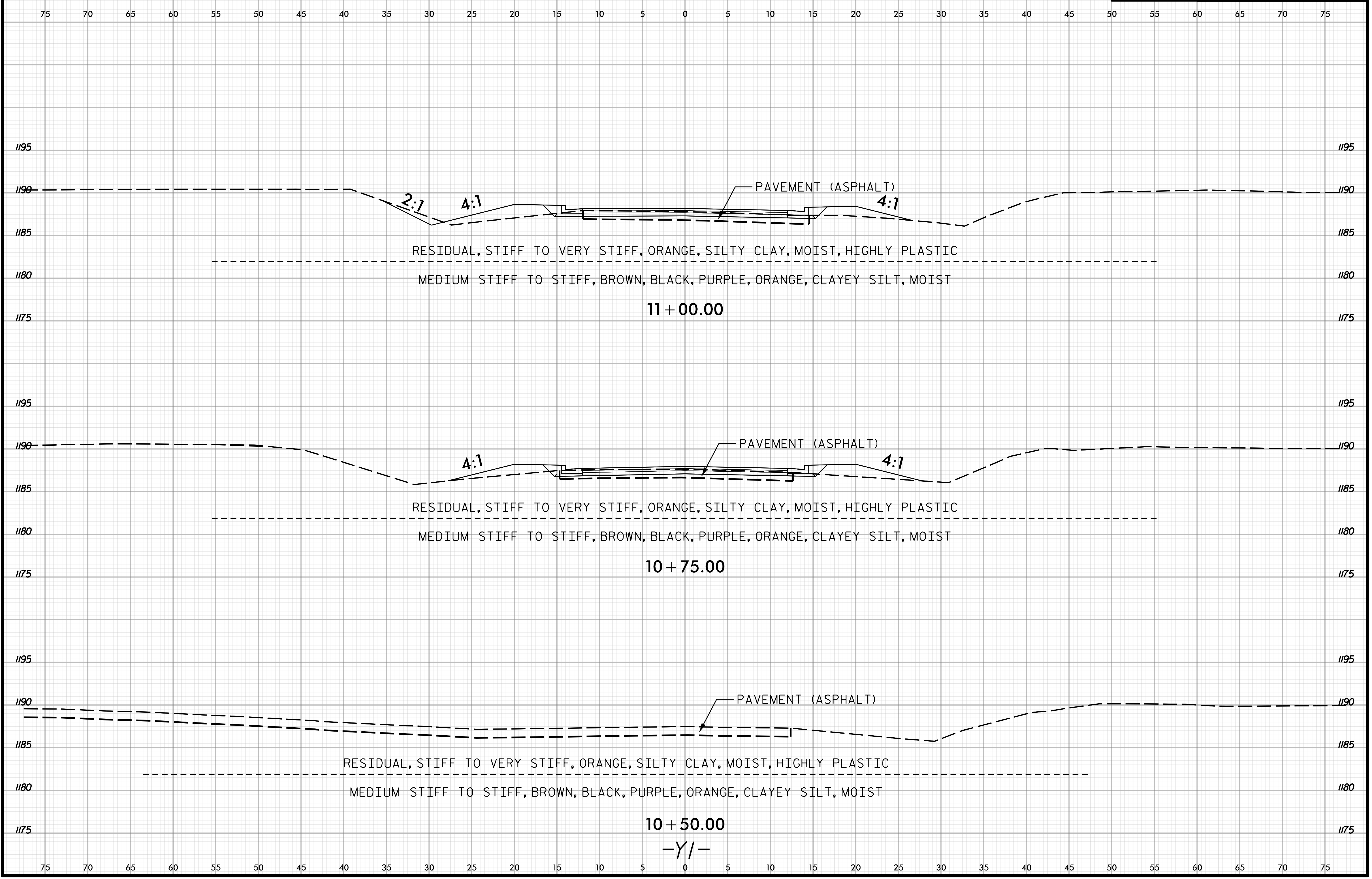
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1195
1190
1185
1180
1175
2:1
4:1
4:1
PAVEMENT (ASPHALT)
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
11+00.00
1195
1190
1185
1180
1175
4:1
4:1
PAVEMENT (ASPHALT)
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
10+75.00
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT)
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
10+50.00
-Y1-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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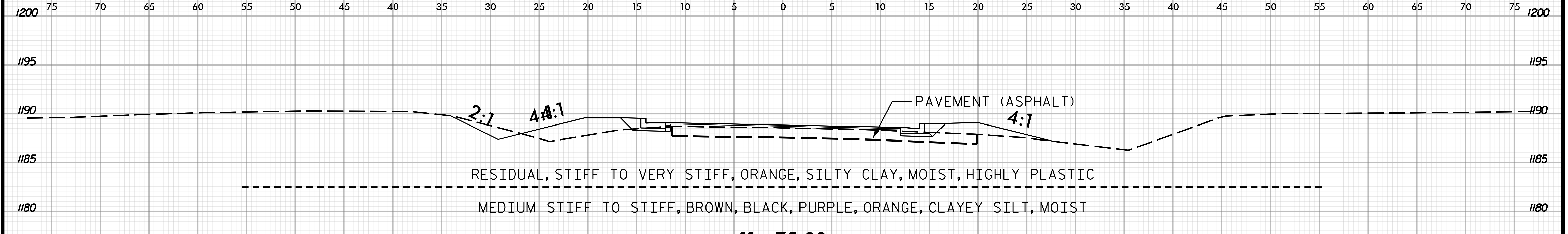
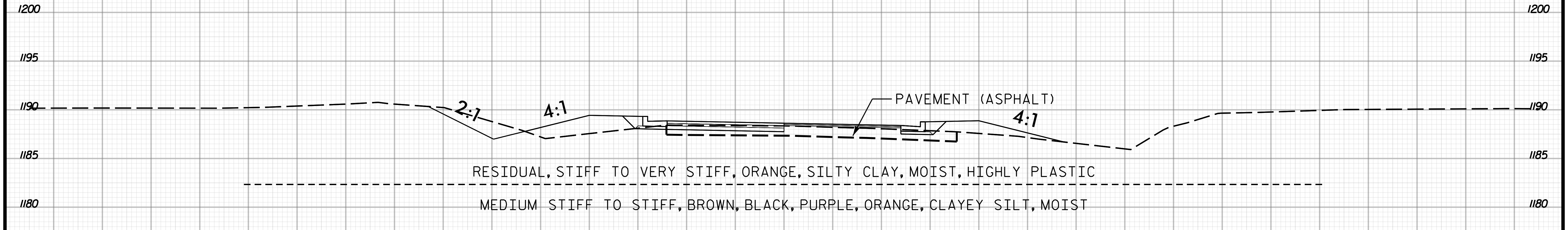
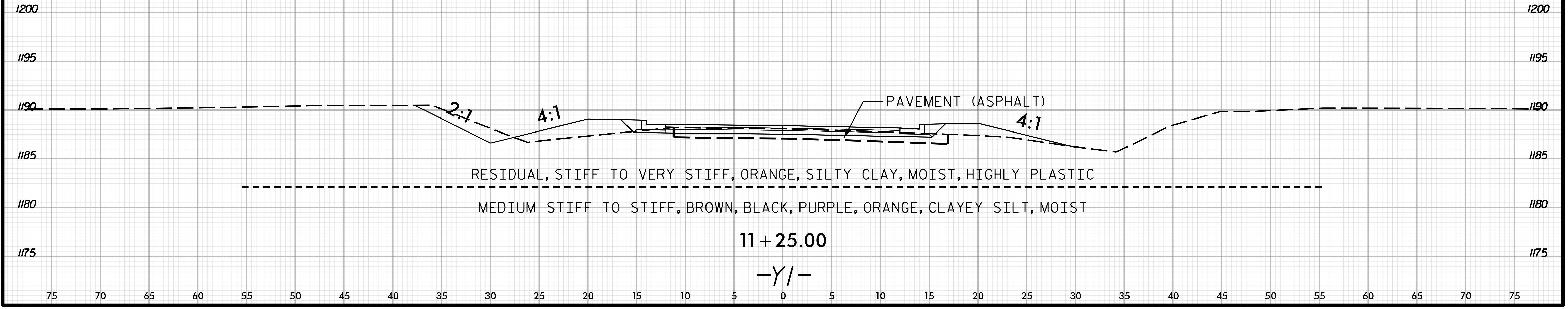


11+75.00


1200
1195
1190
1185
1180
1175
2:1
4:1
PAVEMENT (ASPHALT)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST

11+50.00


1200
1195
1190
1185
1180
1175
2:1
4:1
PAVEMENT (ASPHALT)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

11+25.00

-Y1-

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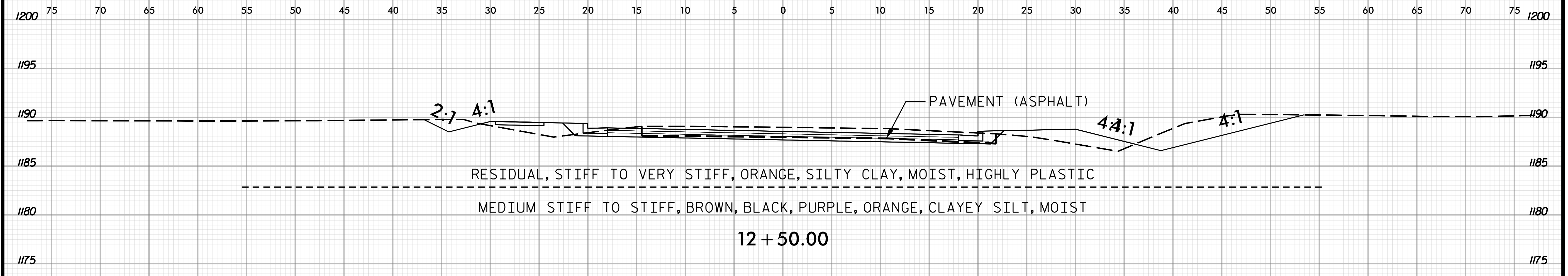
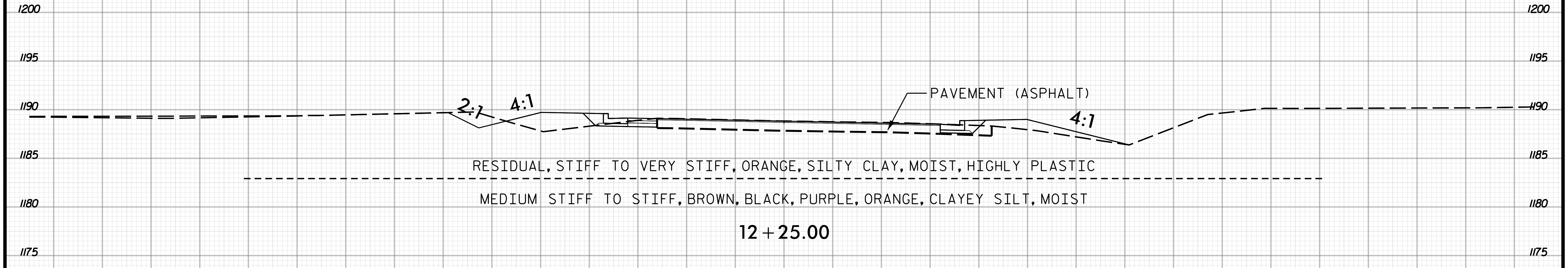
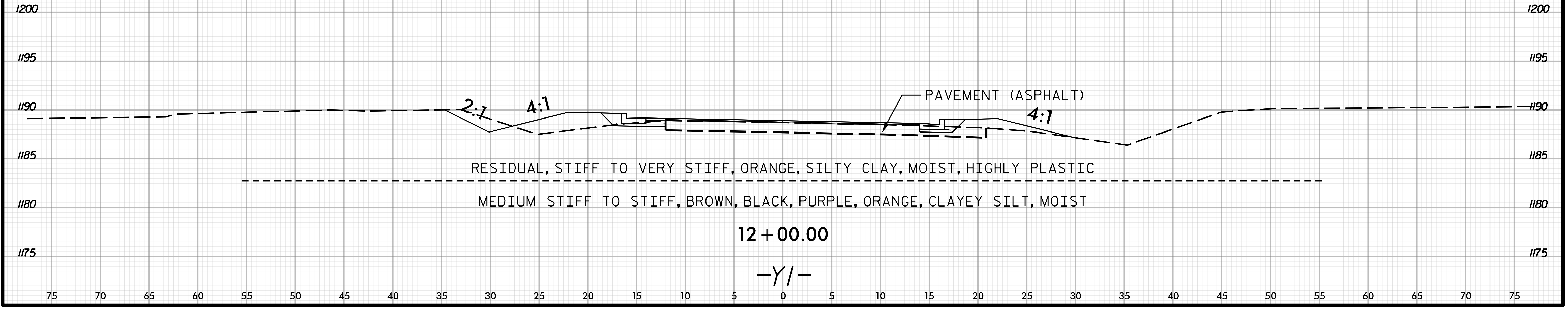


12 + 50.00


1200
1195
1190
1185
1180
1175
2:1
4:1
PAVEMENT (ASPHALT)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST

12 + 25.00


1200
1195
1190
1185
1180
1175
2:1
4:1
PAVEMENT (ASPHALT)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

12 + 00.00

-Y1-

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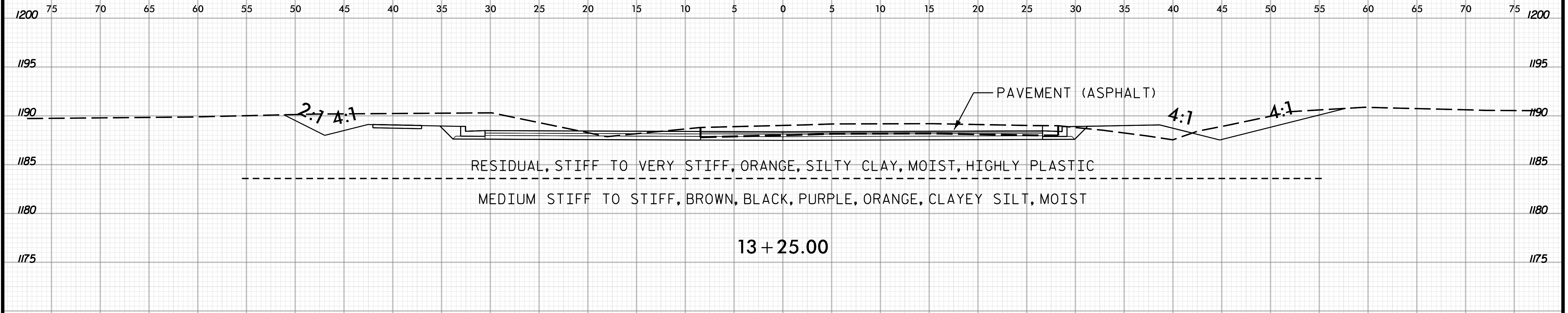
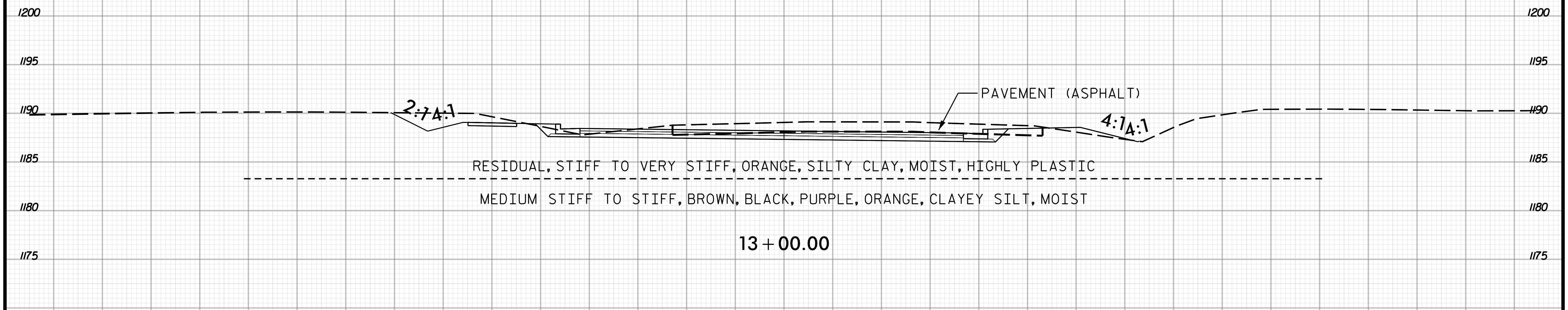
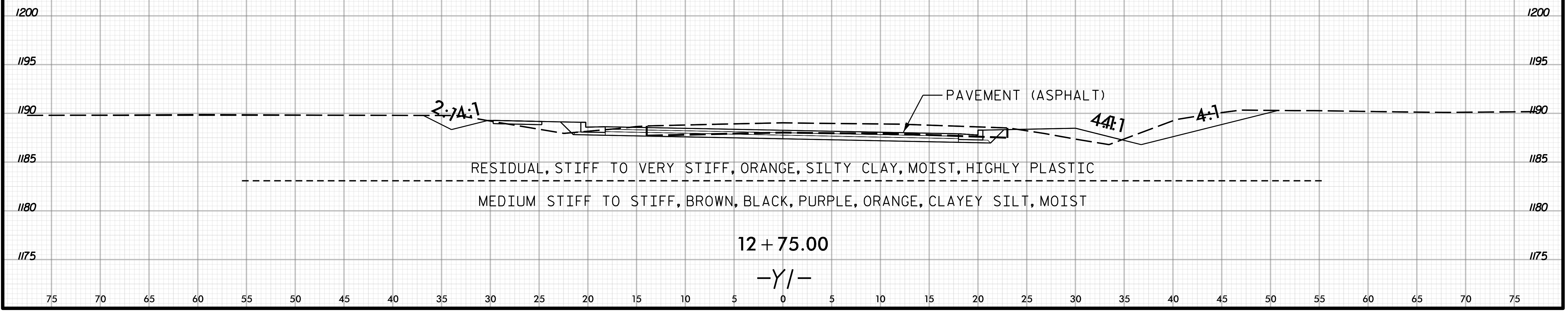


13 + 25.00



1200
1195
1190
1185
1180
1175
2:1
4:1
PAVEMENT (ASPHALT)
4:1
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST

13 + 00.00



1200
1195
1190
1185
1180
1175
2:1
4:1
PAVEMENT (ASPHALT)
4:1
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

12 + 75.00

-Y1-

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6/23/16

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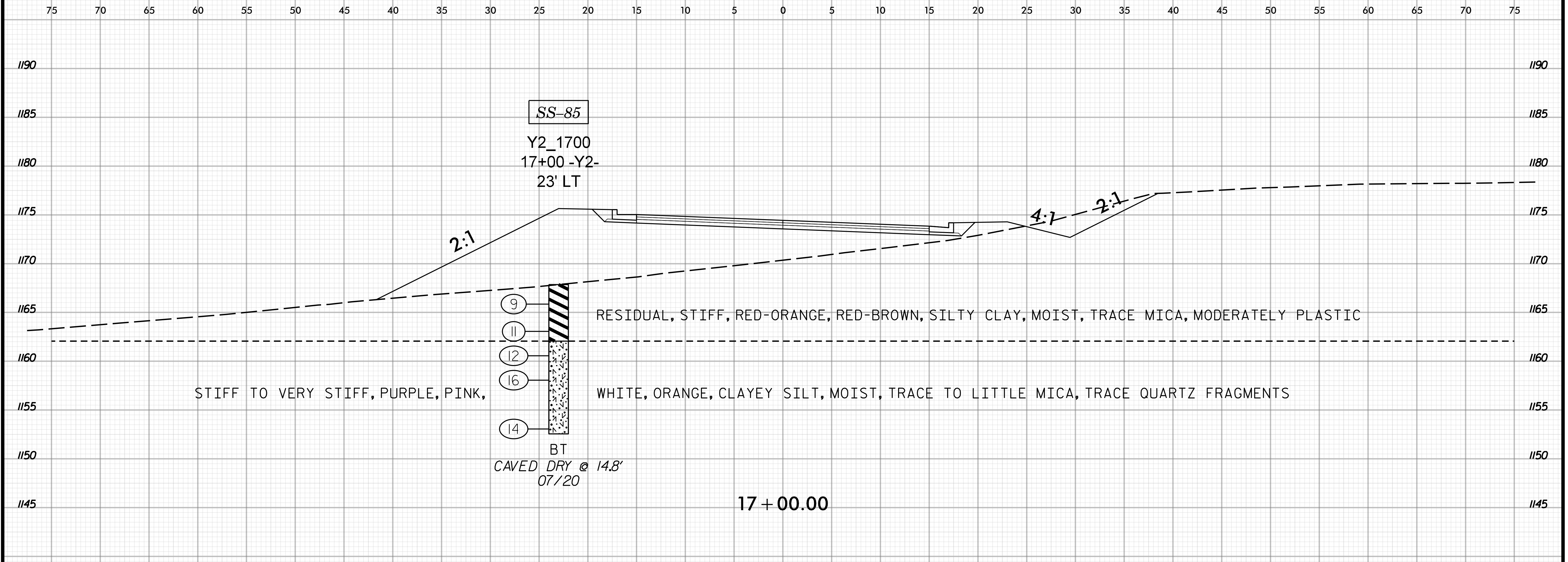
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1190
1185
1180
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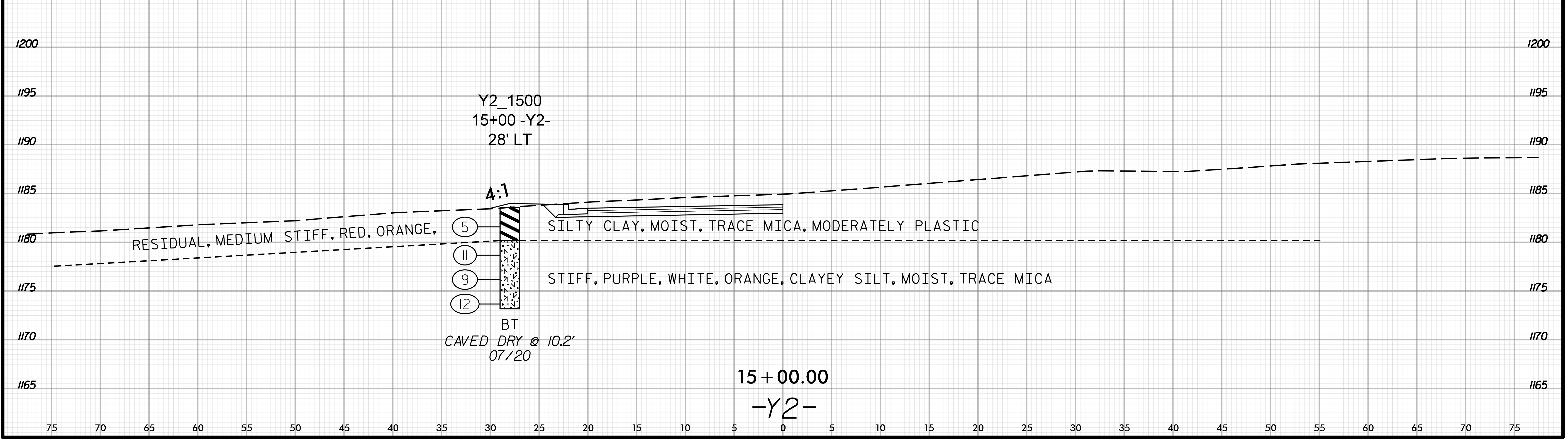
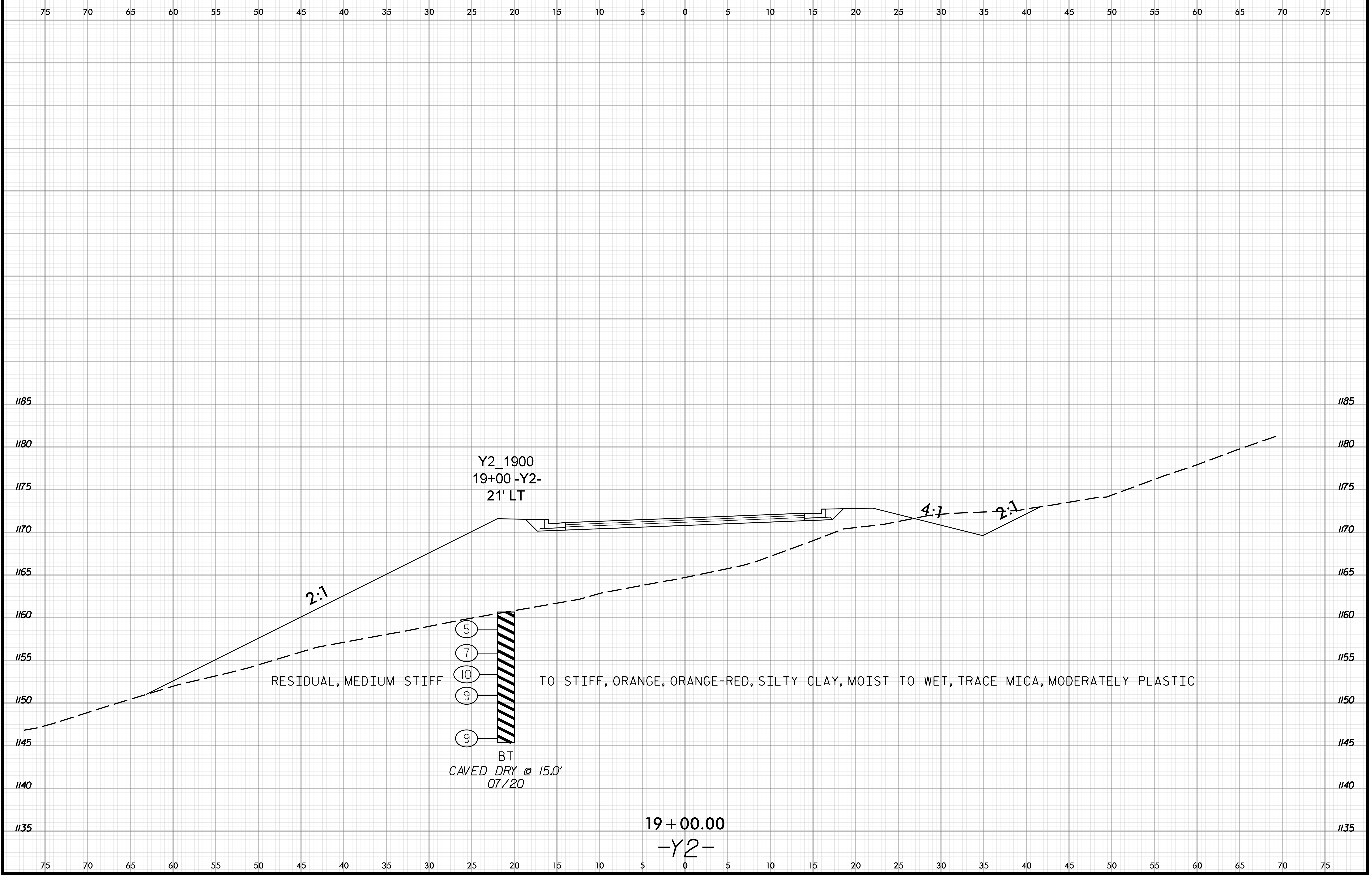
1150
1145
SS-85
Y2_1700
17+00 -Y2-
23' LT
2:1
4:1
2:1
9
11
12
16
14
RESIDUAL, STIFF, RED-ORANGE, RED-BROWN, SILTY CLAY, MOIST, TRACE MICA, MODERATELY PLASTIC
STIFF TO VERY STIFF, PURPLE, PINK, WHITE, ORANGE, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, TRACE QUARTZ FRAGMENTS
BT
CAVED DRY @ 14.8'
07/20

17+00.00



15+00.00

-Y2-



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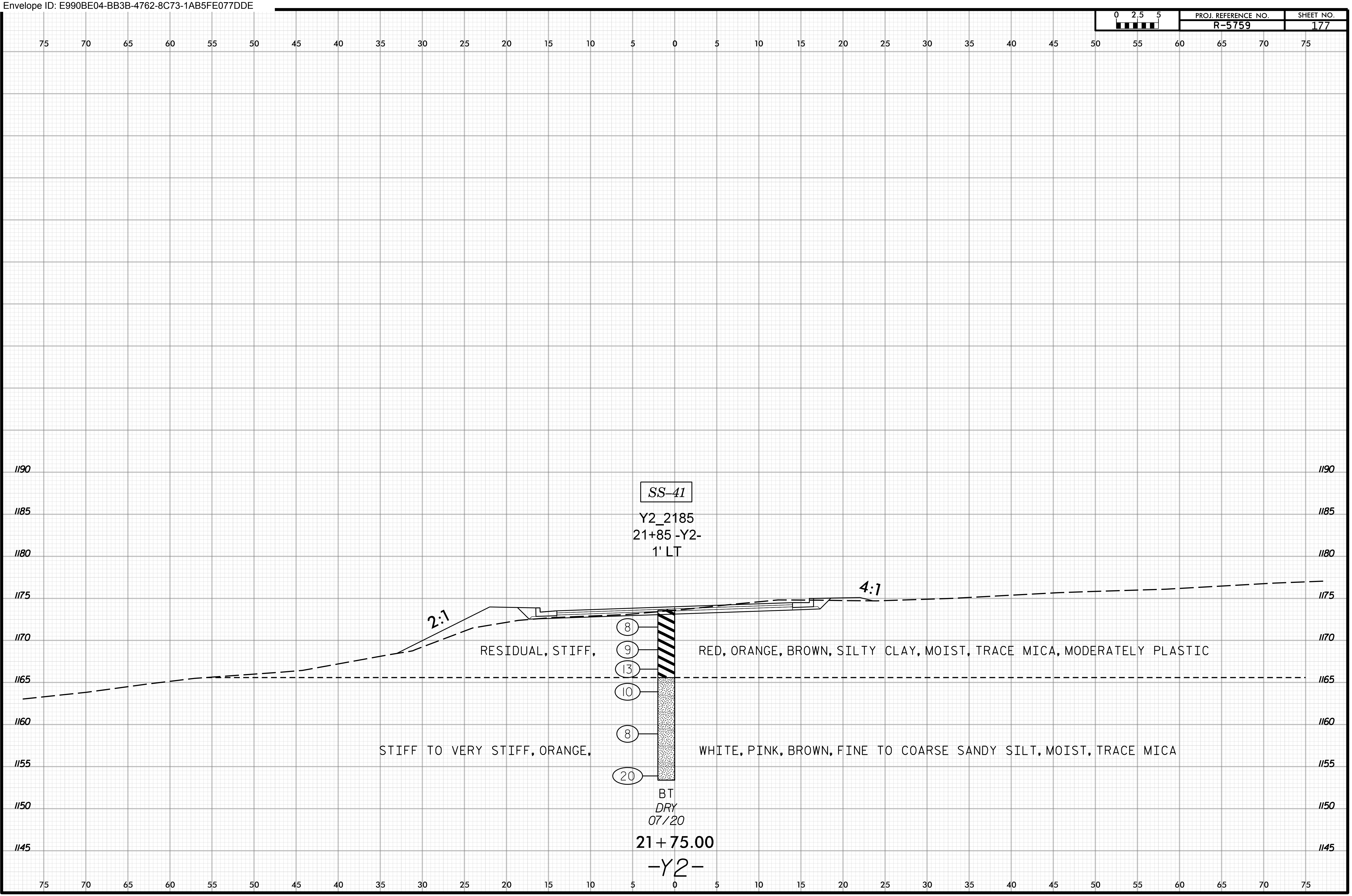
mlhartman AT W0070050699

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

PROJ. REFERENCE NO.	SHEET NO.
R-5759	177



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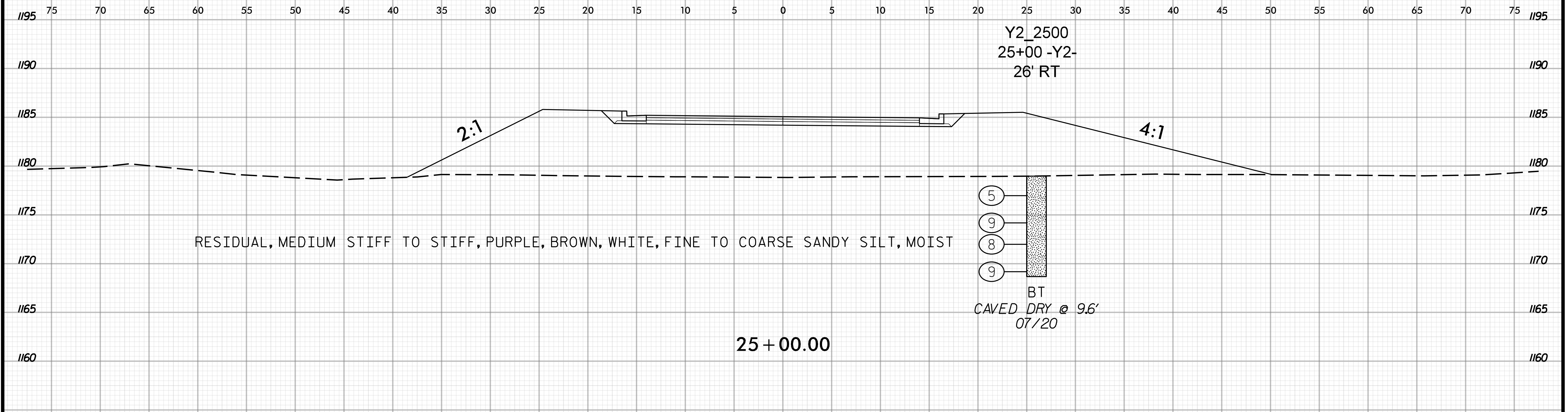
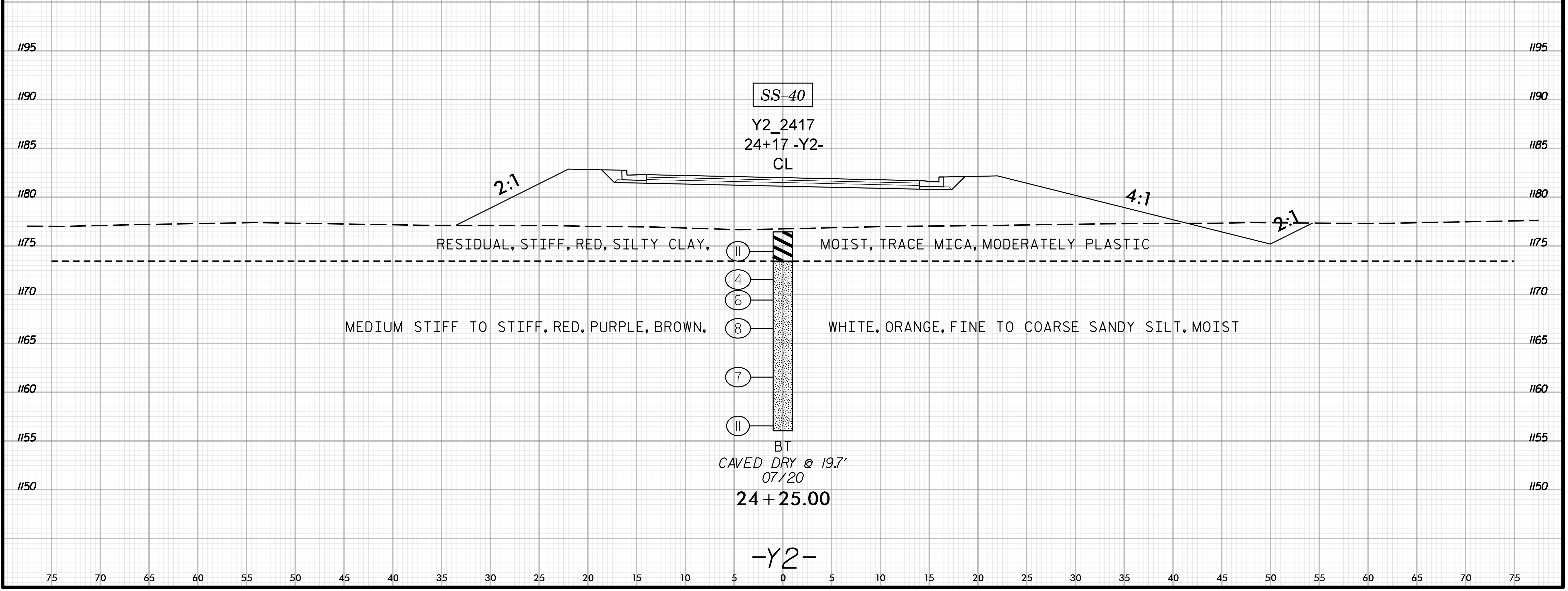
mlhartman AT W0070050699

6/23/16



25+00.00



24+25.00

-Y2-

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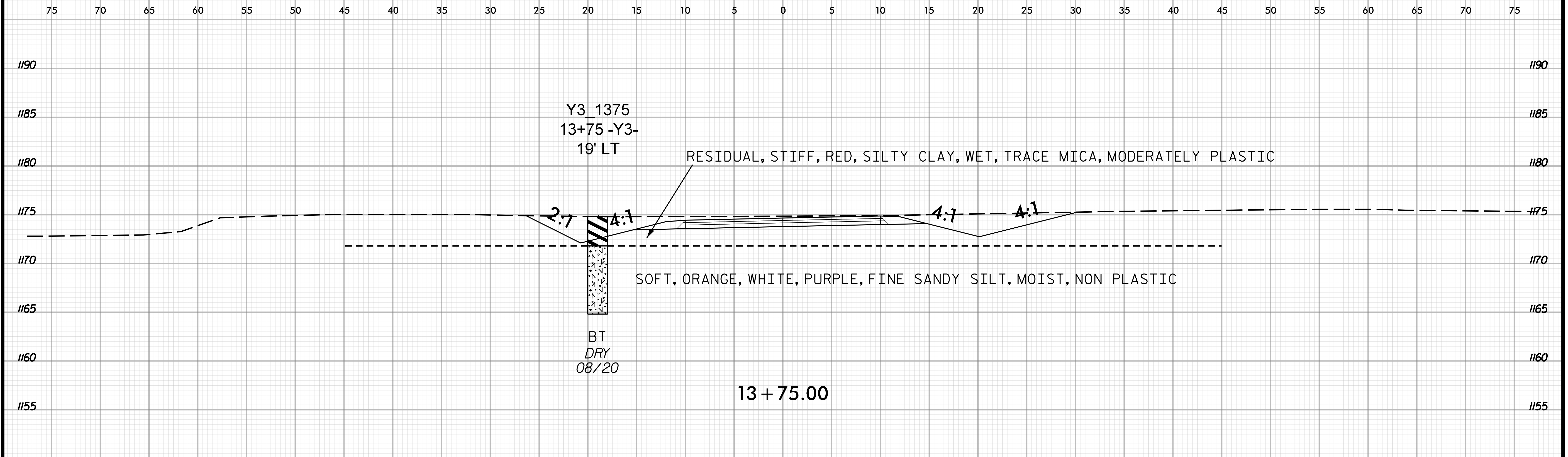
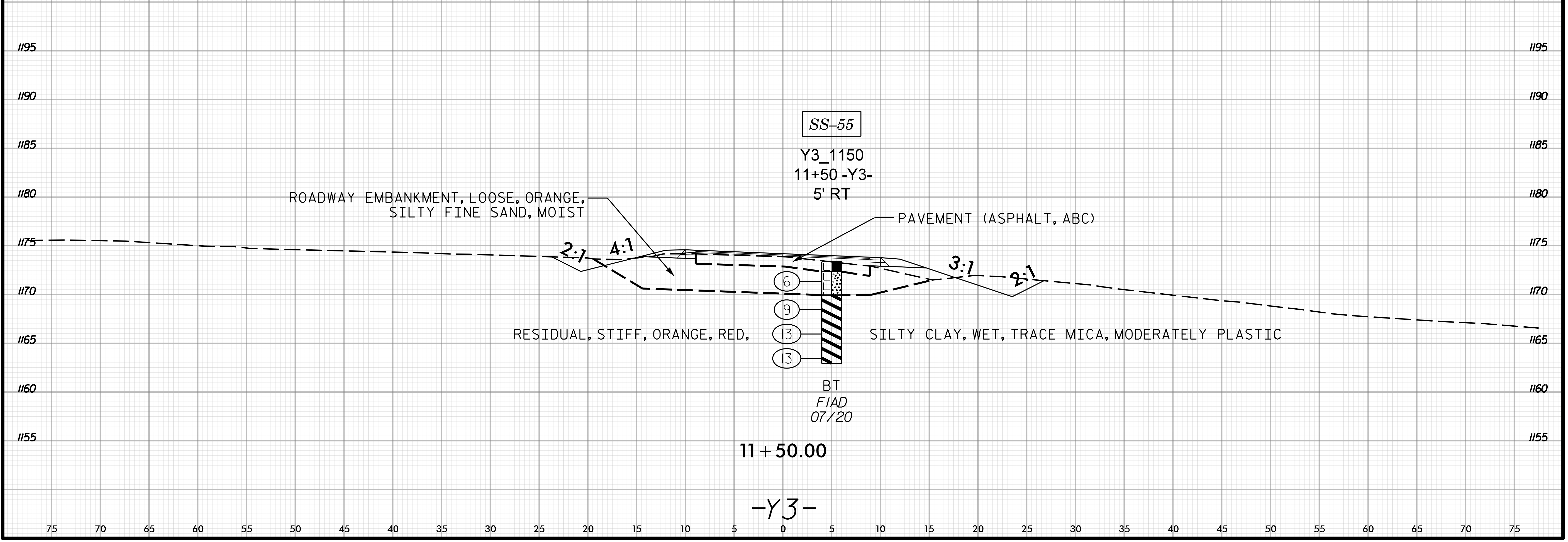
mlhartman AT W0070050699



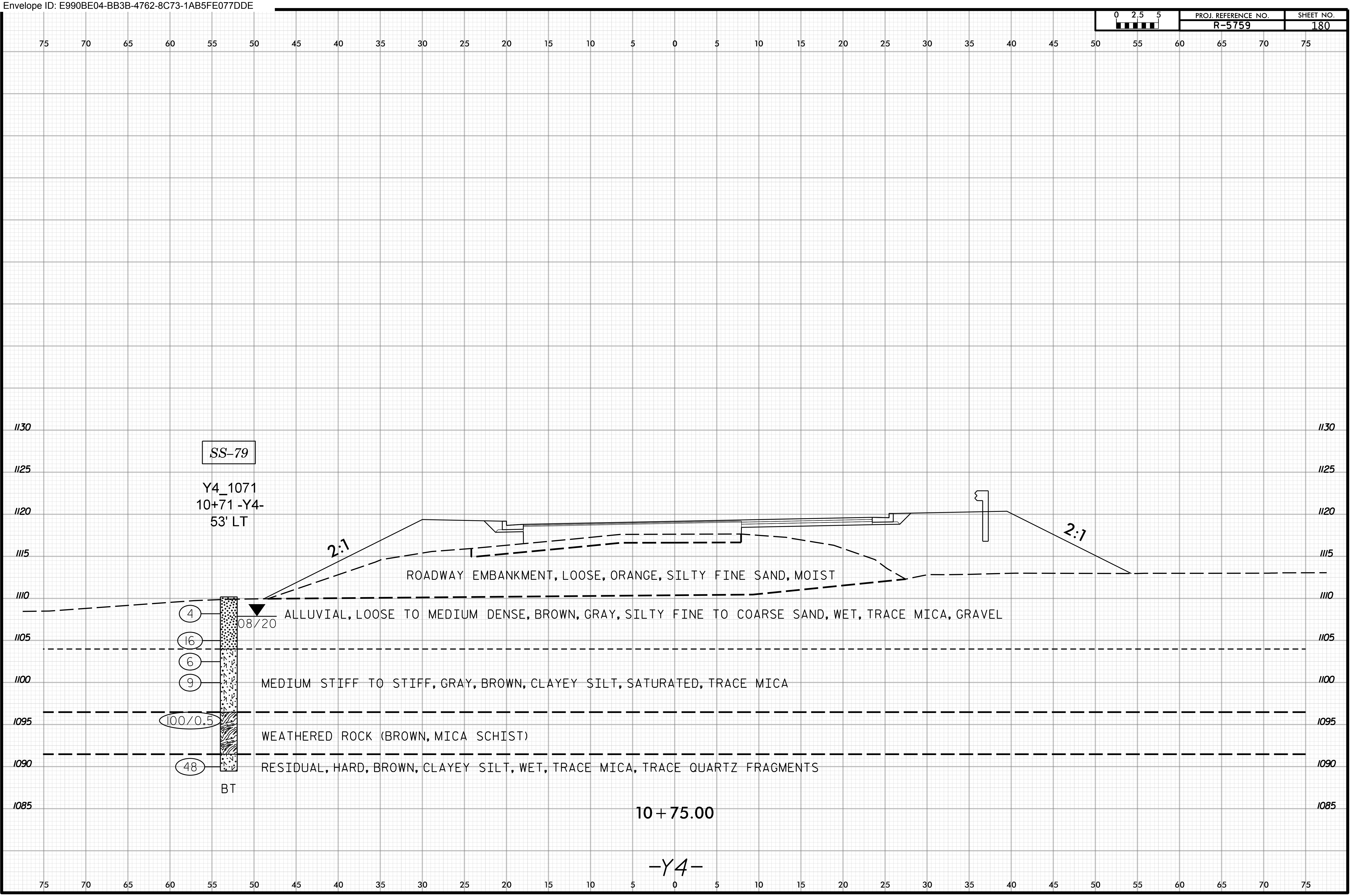
0 2.5 5
Y3_1375
13+75 -Y3-
19' LT
RESIDUAL, STIFF, RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
2:1
4:1
4:1
4:1
SOFT, ORANGE, WHITE, PURPLE, FINE SANDY SILT, MOIST, NON PLASTIC
BT
DRY
08/20
13+75.00
1190
1185
1180
1175
1170
1165
1160
1155
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



SS-55
Y3_1150
11+50 -Y3-
5' RT
ROADWAY EMBANKMENT, LOOSE, ORANGE, SILTY FINE SAND, MOIST
PAVEMENT (ASPHALT, ABC)
2:1
4:1
3:1
2:1
6
9
13
13
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
BT
FIAD
07/20
11+50.00
-Y3-
1195
1190
1185
1180
1175
1170
1165
1160
1155
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

PROJ. REFERENCE NO.	SHEET NO.
R-5759	180



0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1130
1125
1120
1115
1110
1105
1100
1095
1090
1085
SS-79
Y4_1071
10+71 -Y4-
53' LT
2:1
2:1
ROADWAY EMBANKMENT, LOOSE, ORANGE, SILTY FINE SAND, MOIST
4
08/20
ALLUVIAL, LOOSE TO MEDIUM DENSE, BROWN, GRAY, SILTY FINE TO COARSE SAND, WET, TRACE MICA, GRAVEL
16
6
9
MEDIUM STIFF TO STIFF, GRAY, BROWN, CLAYEY SILT, SATURATED, TRACE MICA
100/0.5
WEATHERED ROCK (BROWN, MICA SCHIST)
48
RESIDUAL, HARD, BROWN, CLAYEY SILT, WET, TRACE MICA, TRACE QUARTZ FRAGMENTS
BT
10+75.00
-Y4-

6/23/16

14-AUG-2024 10:40
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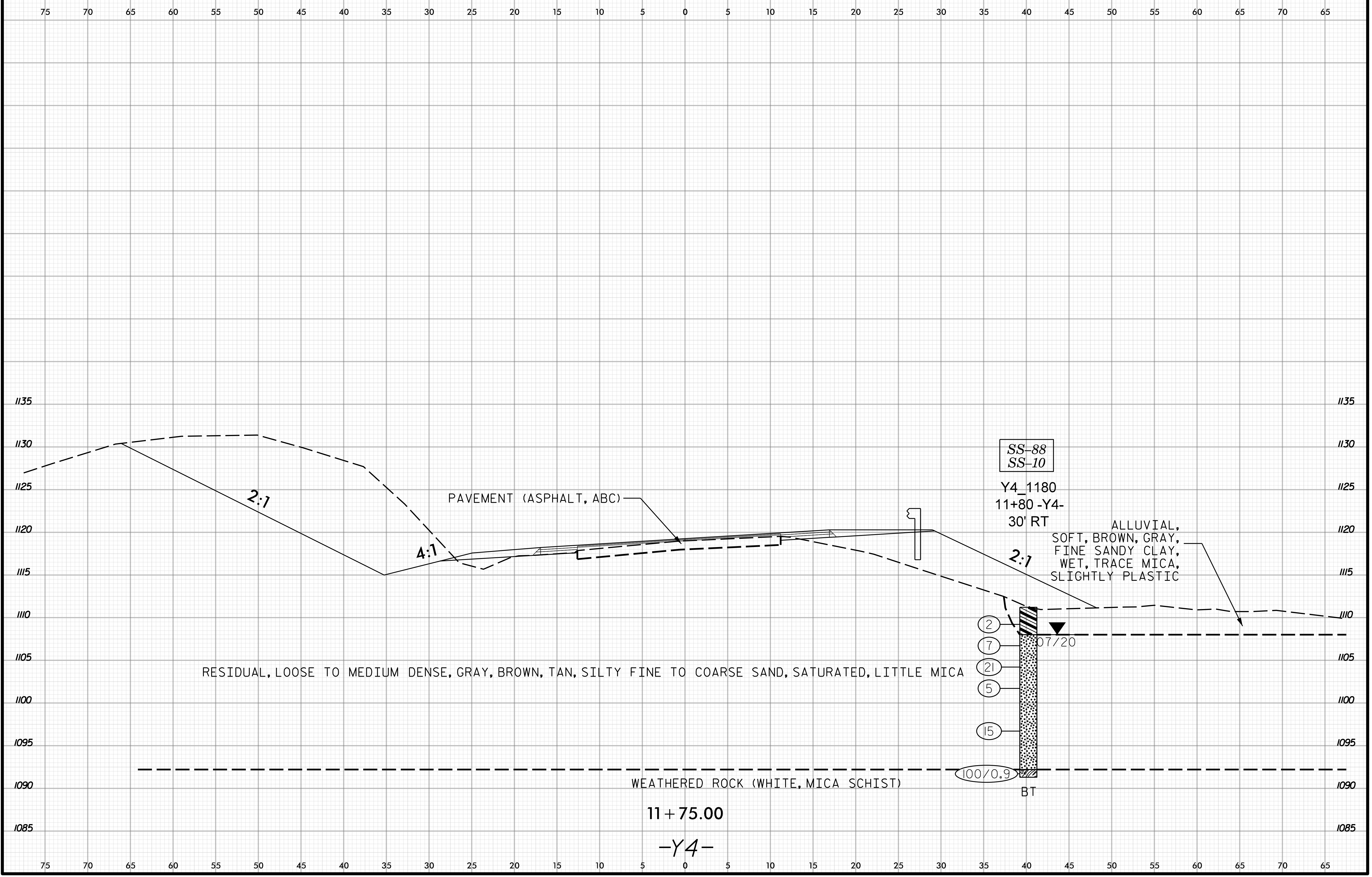
mlhartman AT W007005069 9

6/23/16



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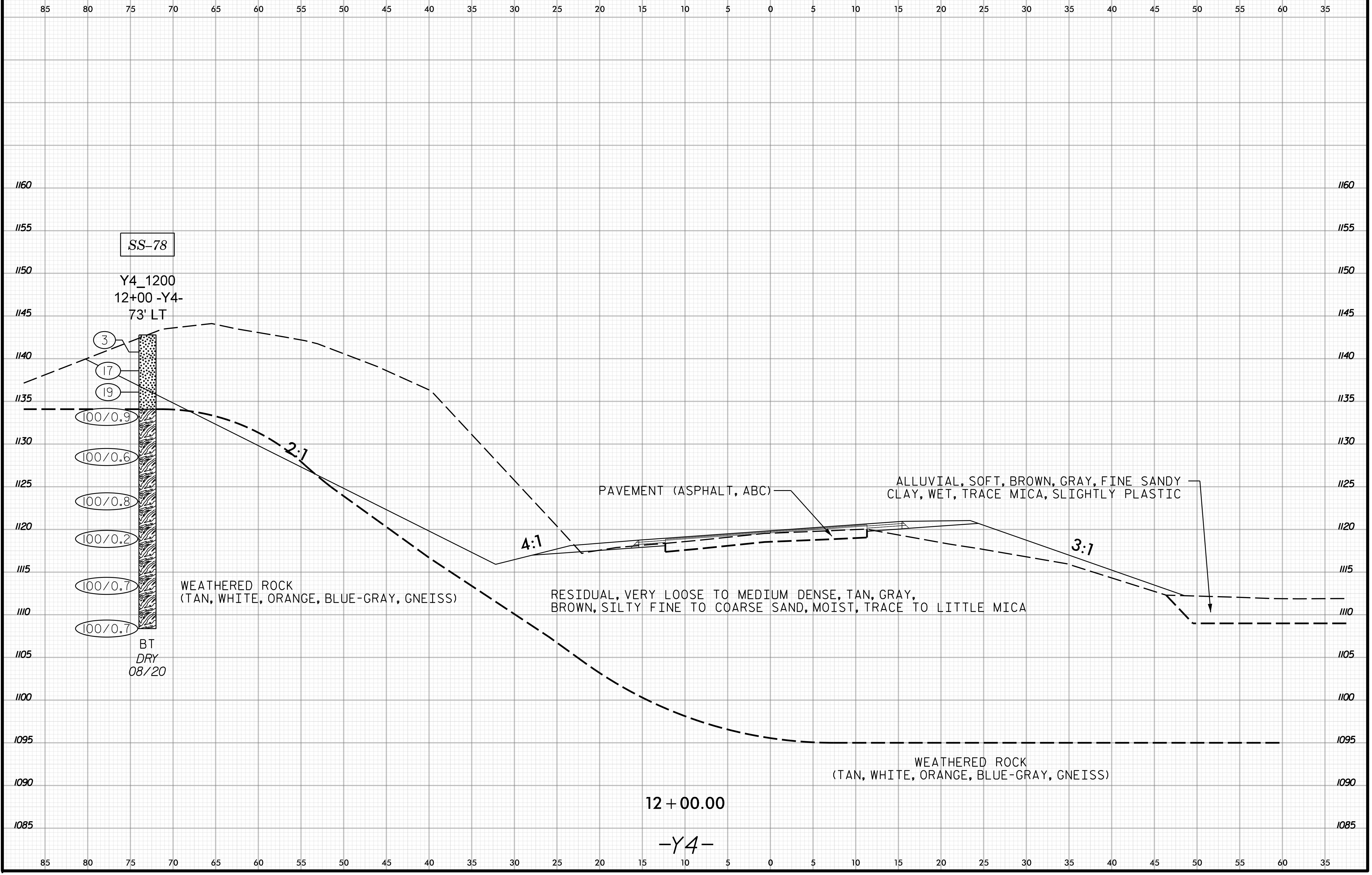
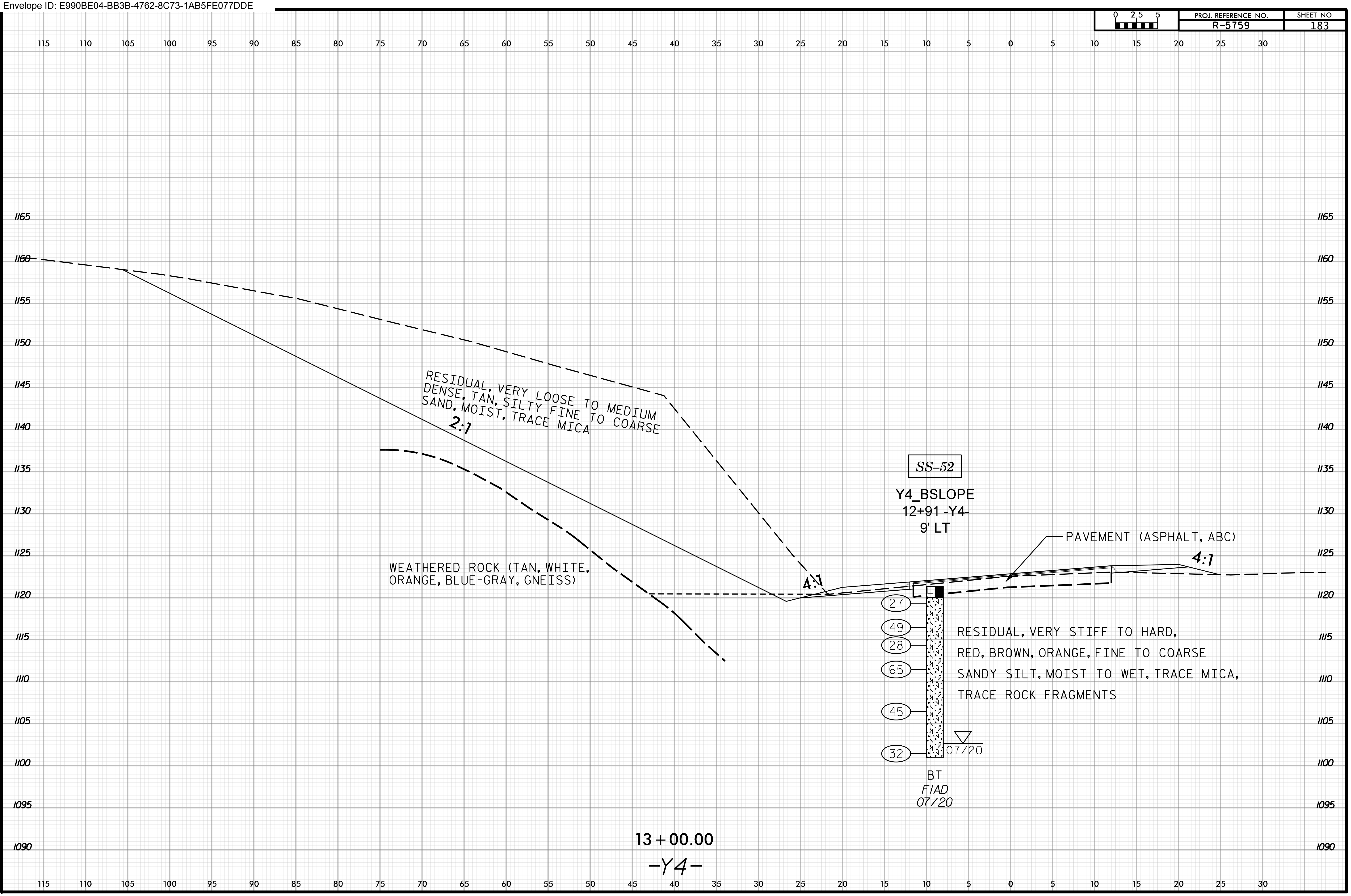
mlhartman AT W00700050699


SS-78
Y4_1200
12+00 -Y4-
73' LT
100/0.9
100/0.6
100/0.8
100/0.2
100/0.7
100/0.7
BT
DRY
08/20
2:1
4:1
3:1
PAVEMENT (ASPHALT, ABC)
ALLUVIAL, SOFT, BROWN, GRAY, FINE SANDY CLAY, WET, TRACE MICA, SLIGHTLY PLASTIC
WEATHERED ROCK (TAN, WHITE, ORANGE, BLUE-GRAY, GNEISS)
RESIDUAL, VERY LOOSE TO MEDIUM DENSE, TAN, GRAY, BROWN, SILTY FINE TO COARSE SAND, MOIST, TRACE TO LITTLE MICA
WEATHERED ROCK (TAN, WHITE, ORANGE, BLUE-GRAY, GNEISS)

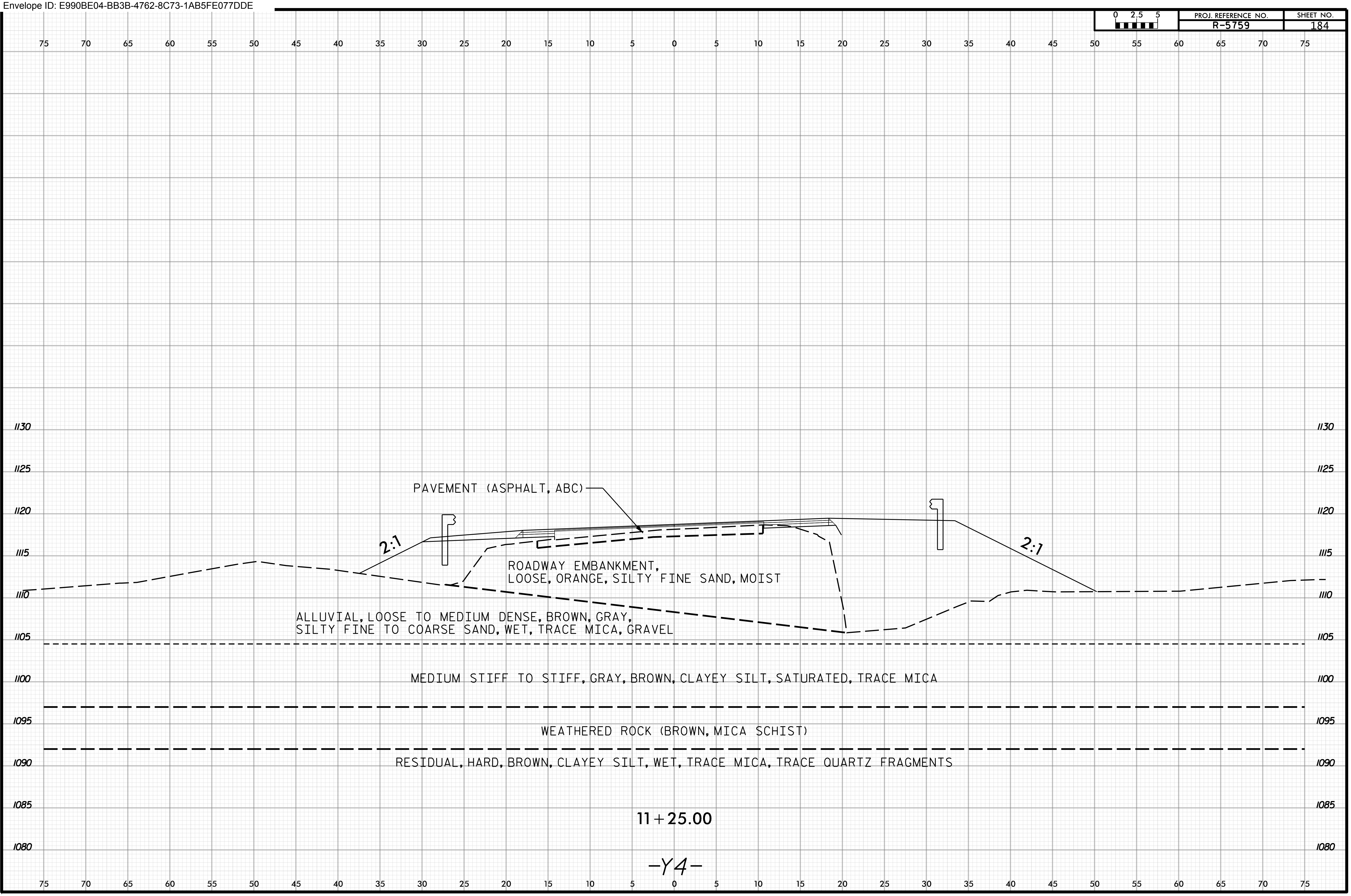
12+00.00

-Y4-



0 2.5 5
115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30
1165
1160
1155
1150
1145
1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
1090
RESIDUAL, VERY LOOSE TO MEDIUM DENSE, TAN, SILTY FINE TO COARSE SAND, MOIST, TRACE MICA
2:1
WEATHERED ROCK (TAN, WHITE, ORANGE, BLUE-GRAY, GNEISS)
4:1
SS-52
Y4_BSLOPE
12+91 -Y4-
9' LT
PAVEMENT (ASPHALT, ABC)
4:1
27
49
28
65
45
32
RESIDUAL, VERY STIFF TO HARD, RED, BROWN, ORANGE, FINE TO COARSE SANDY SILT, MOIST TO WET, TRACE MICA, TRACE ROCK FRAGMENTS
07/20
BT
FIAD
07/20
13+00.00
-Y4-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	184


0 2.5 5
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
1130
1125
1120
1115
1110
1105
1100
1095
1090
1085
1080
PAVEMENT (ASPHALT, ABC)
2:1
2:1
ROADWAY EMBANKMENT,
LOOSE, ORANGE, SILTY FINE SAND, MOIST
ALLUVIAL, LOOSE TO MEDIUM DENSE, BROWN, GRAY,
SILTY FINE TO COARSE SAND, WET, TRACE MICA, GRAVEL
MEDIUM STIFF TO STIFF, GRAY, BROWN, CLAYEY SILT, SATURATED, TRACE MICA
WEATHERED ROCK (BROWN, MICA SCHIST)
RESIDUAL, HARD, BROWN, CLAYEY SILT, WET, TRACE MICA, TRACE QUARTZ FRAGMENTS
11+25.00
-Y4-

6/23/16

14-AUG-2024 10:41
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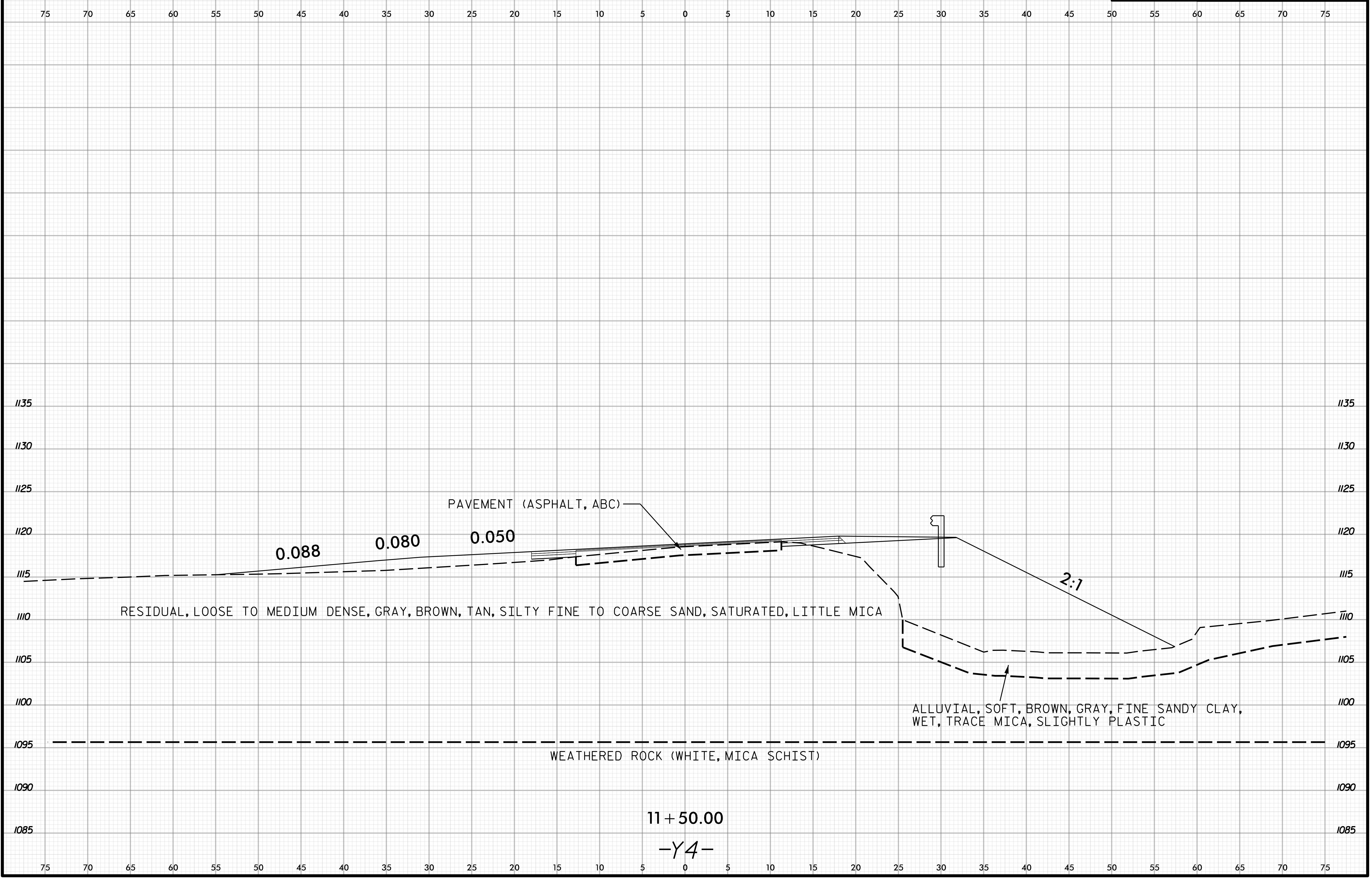
mlhartman AT W00700050699

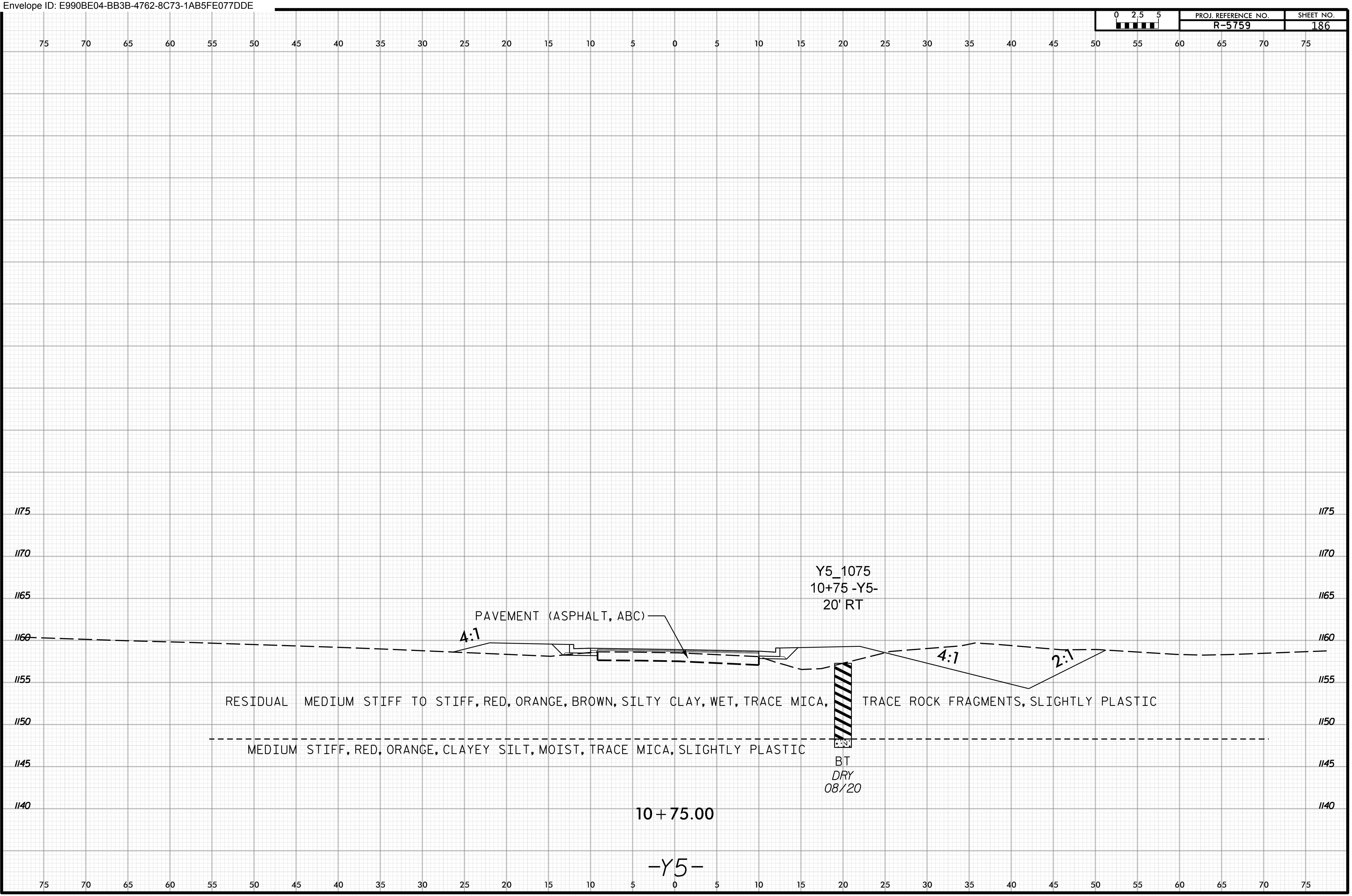

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1135
1130
1125
1120
1115
1110
1105
1100
1095
1090
1085
PAVEMENT (ASPHALT, ABC)
0.088
0.080
0.050
2:1
RESIDUAL, LOOSE TO MEDIUM DENSE, GRAY, BROWN, TAN, SILTY FINE TO COARSE SAND, SATURATED, LITTLE MICA
ALLUVIAL, SOFT, BROWN, GRAY, FINE SANDY CLAY,
WET, TRACE MICA, SLIGHTLY PLASTIC
WEATHERED ROCK (WHITE, MICA SCHIST)

11+50.00

-Y4-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	186

6/23/16



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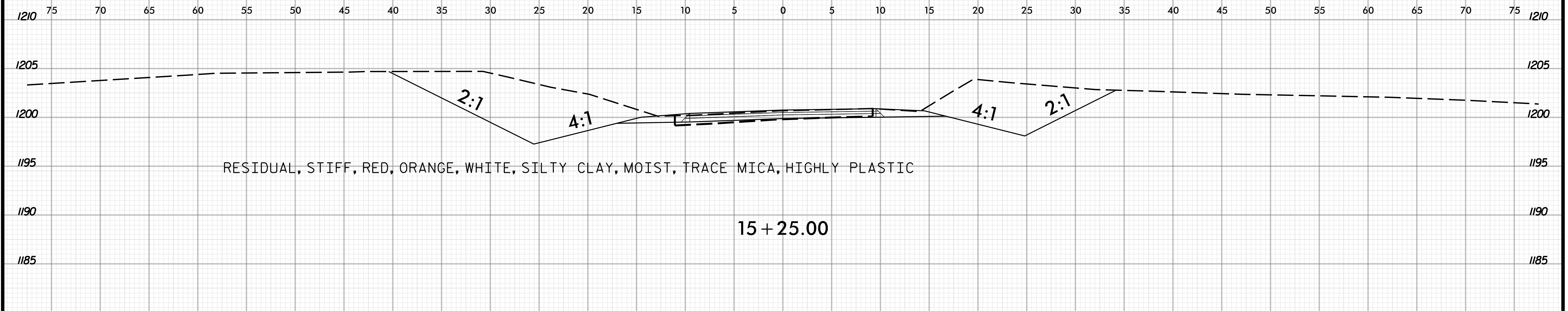
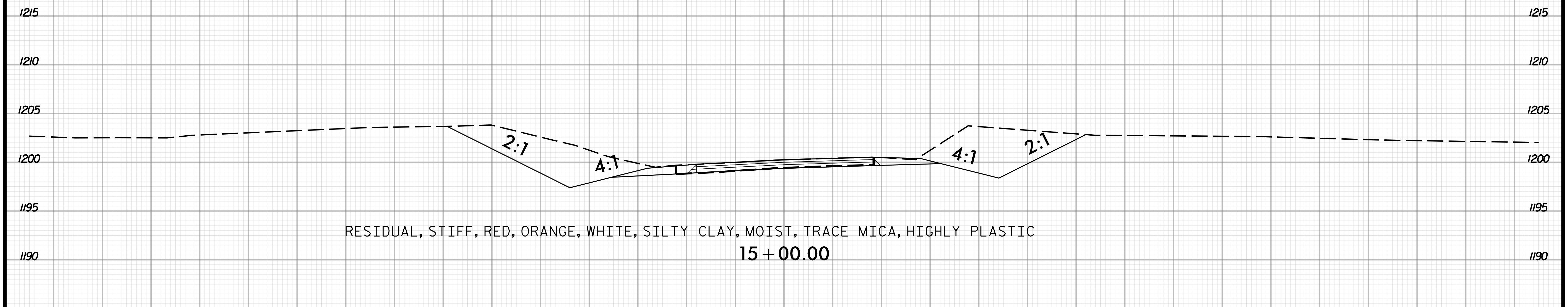
mlhartman AT W0070050699

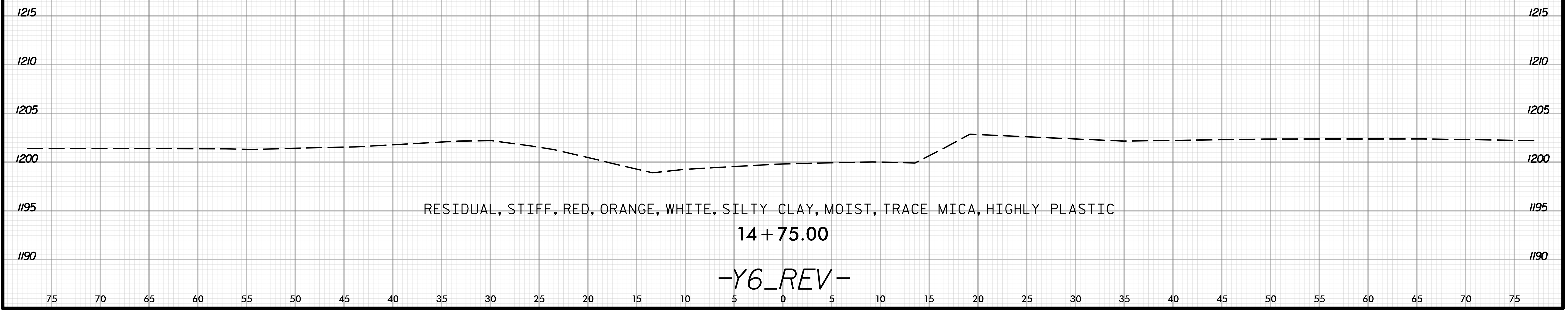
6/23/16



15+25.00


1215
1210
1205
1200
1195
1190
2:1
4:1
4:1
2:1
RESIDUAL, STIFF, RED, ORANGE, WHITE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

15+00.00



14+75.00

-Y6_REV-

14-AUG-2024 10:41
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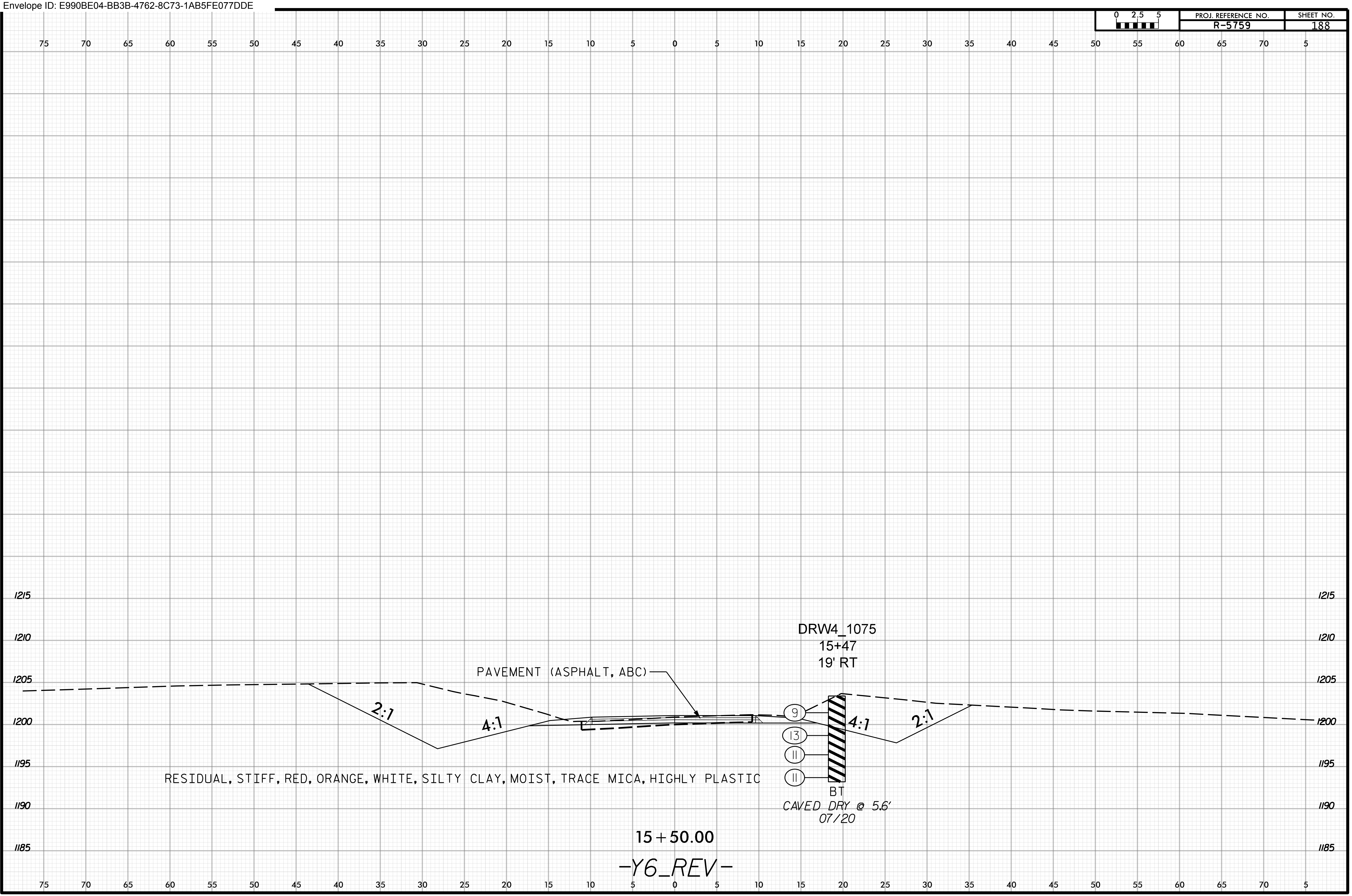
mlhartman AT W00700050699

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

PROJ. REFERENCE NO.	SHEET NO.
R-5759	188



15 + 50.00

-Y6_REV-

14-AUG-2024 10:41
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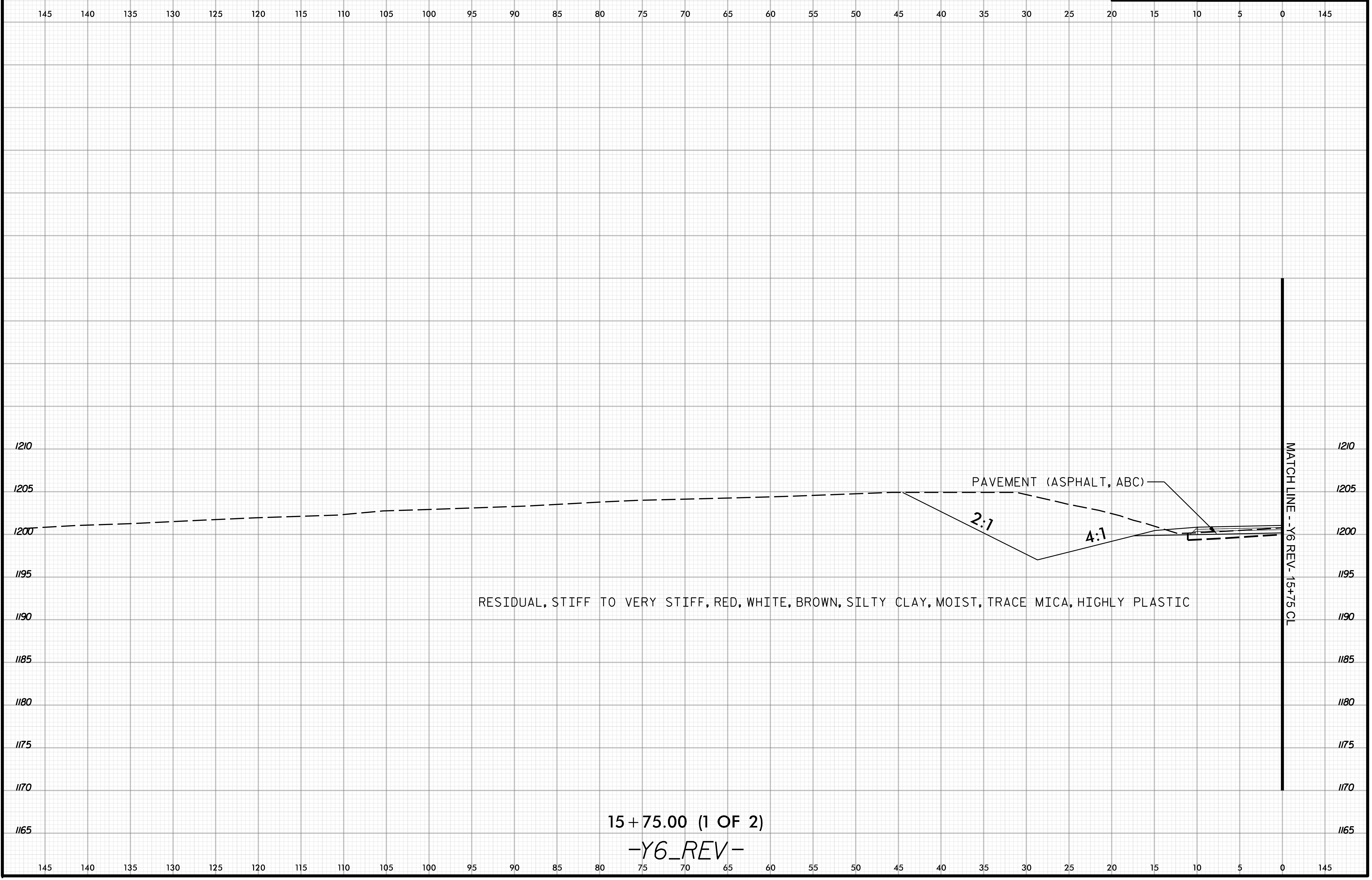
mlhartman AT W0070050699

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	189



15+75.00 (1 OF 2)

-Y6_REV-

28-AUG-2024 14:08
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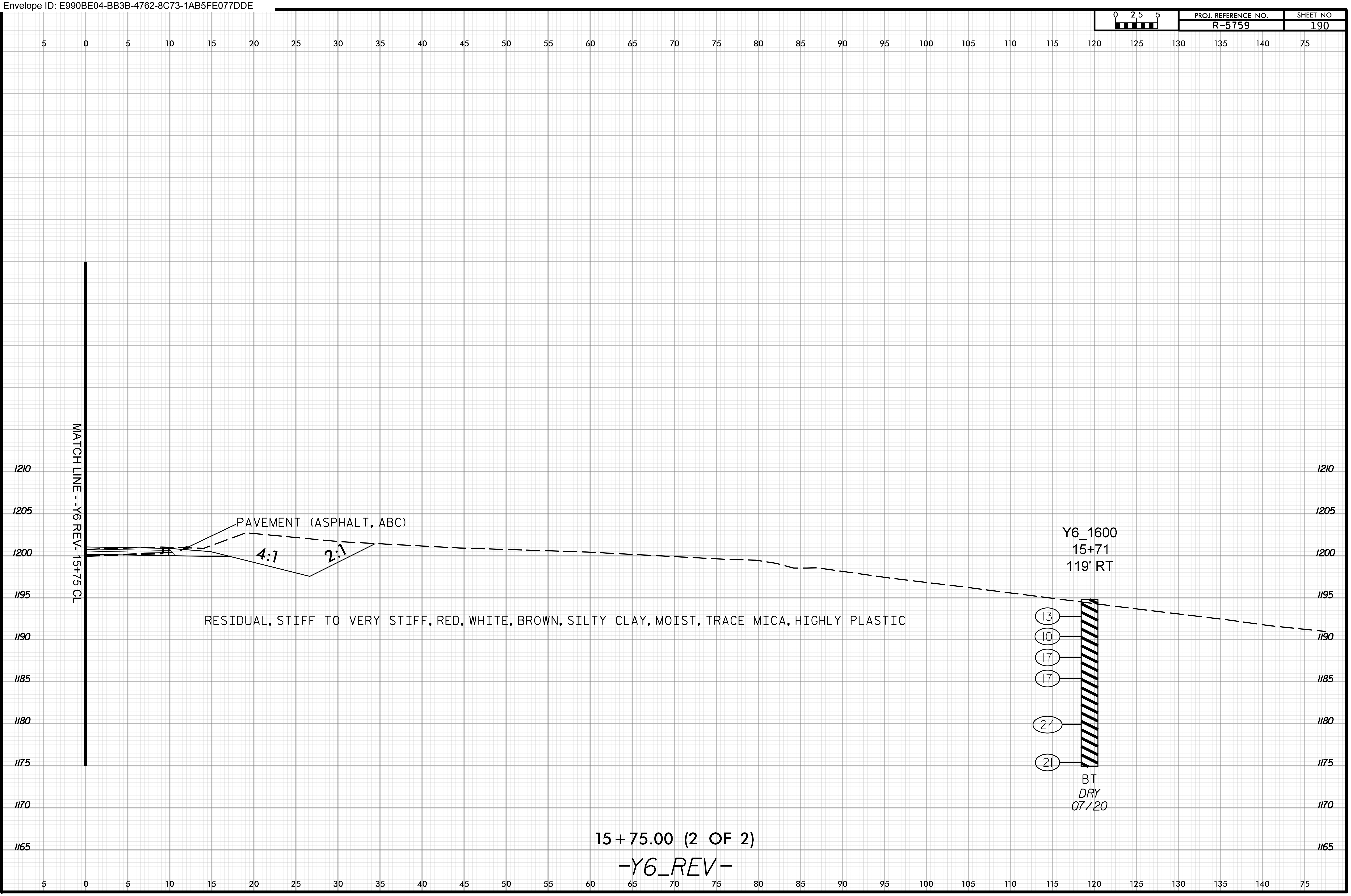

15+75.00 (2 OF 2)

-Y6_REV-

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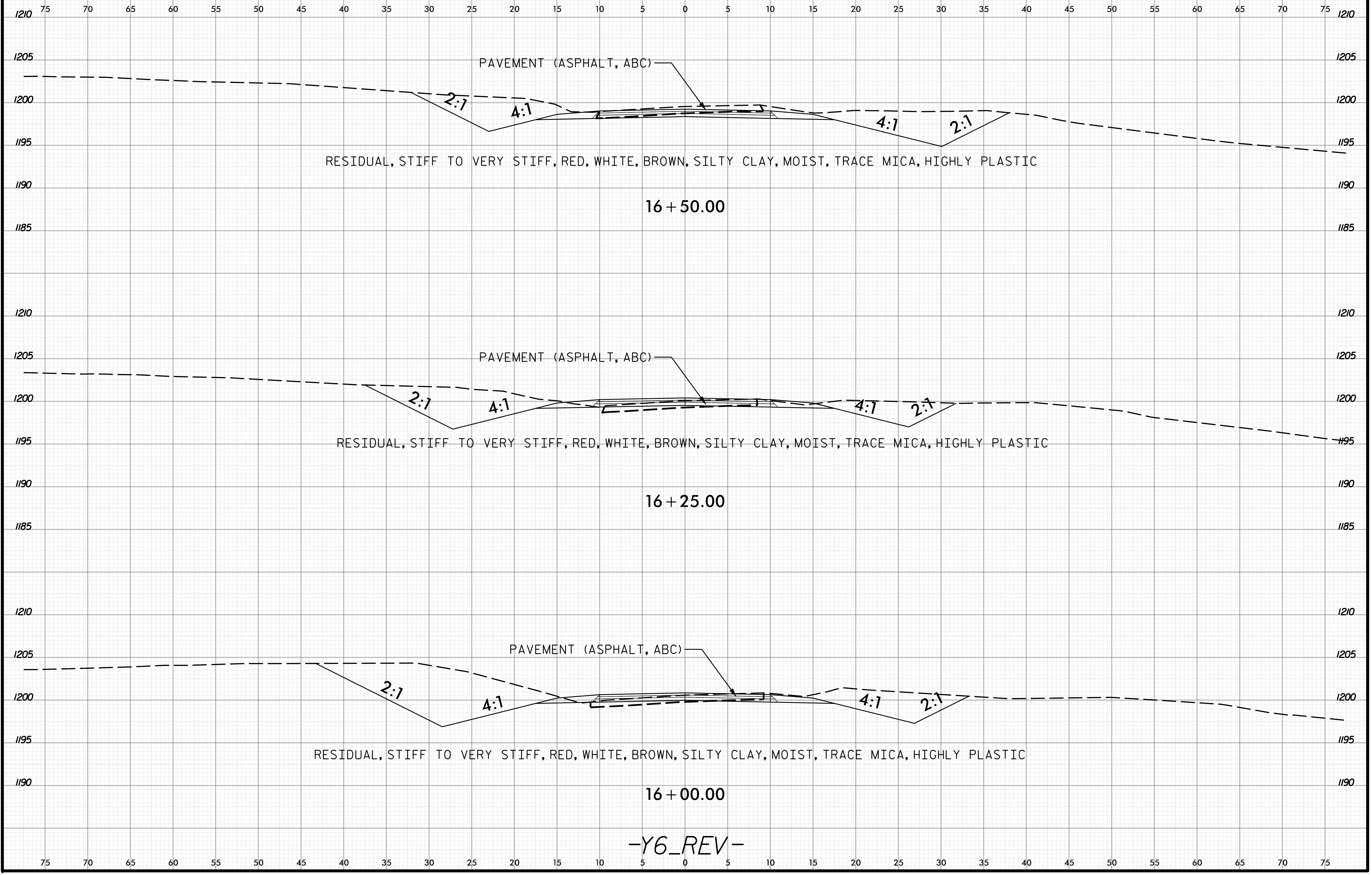
	R-5759	191

6/23/16


1210
1205
1200
1195
1190
1185
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
PAVEMENT (ASPHALT, ABC)
2:1
4:1
4:1
2:1
RESIDUAL, STIFF TO VERY STIFF, RED, WHITE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
16+50.00
PAVEMENT (ASPHALT, ABC)
2:1
4:1
4:1
2:1
RESIDUAL, STIFF TO VERY STIFF, RED, WHITE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
16+25.00
PAVEMENT (ASPHALT, ABC)
2:1
4:1
4:1
2:1
RESIDUAL, STIFF TO VERY STIFF, RED, WHITE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
16+00.00
-Y6_REV-

14-AUG-2024 10:41
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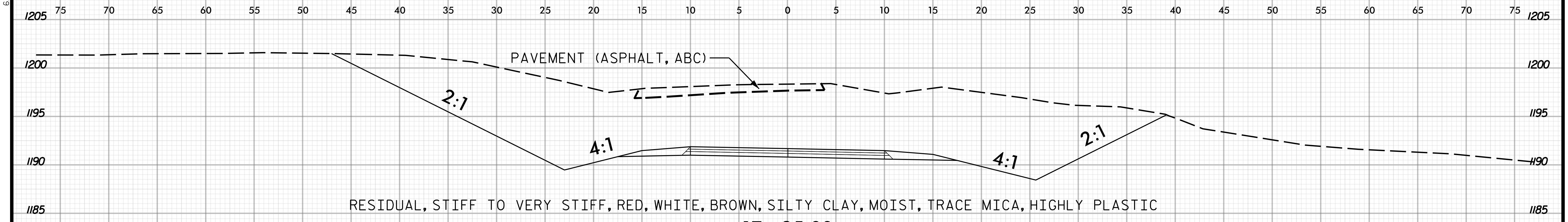
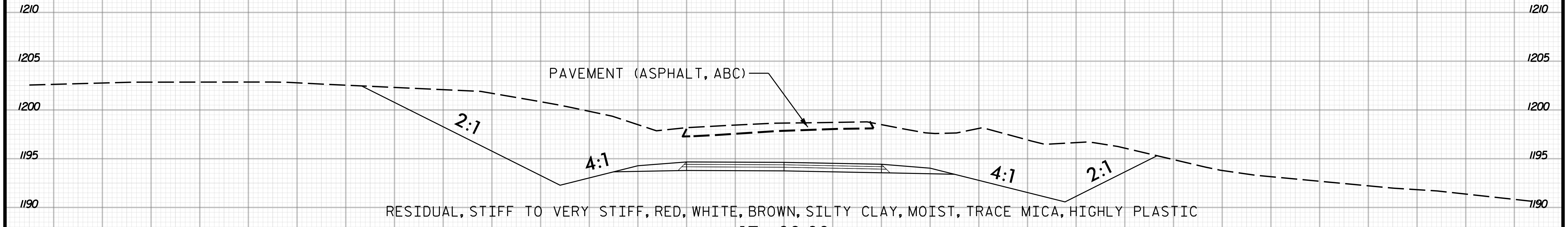
mlhartman AT W00700506699

6/23/16

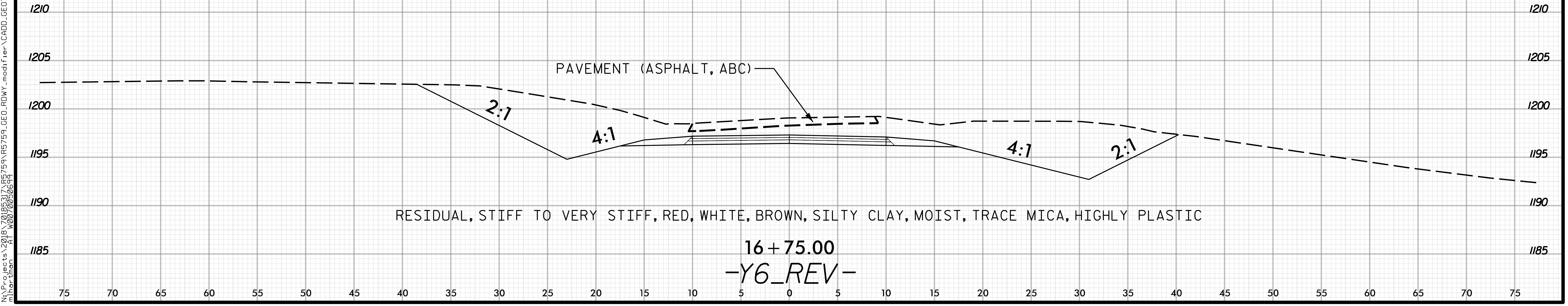
PROJ. REFERENCE NO.	SHEET NO.
R-5759	192



17+25.00


1210
1205
1200
1195
1190
1185
PAVEMENT (ASPHALT, ABC)
2:1
4:1
4:1
2:1
RESIDUAL, STIFF TO VERY STIFF, RED, WHITE, BROWN, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

17+00.00



16+75.00

-Y6_REV-

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mlhartman AT W007000506999

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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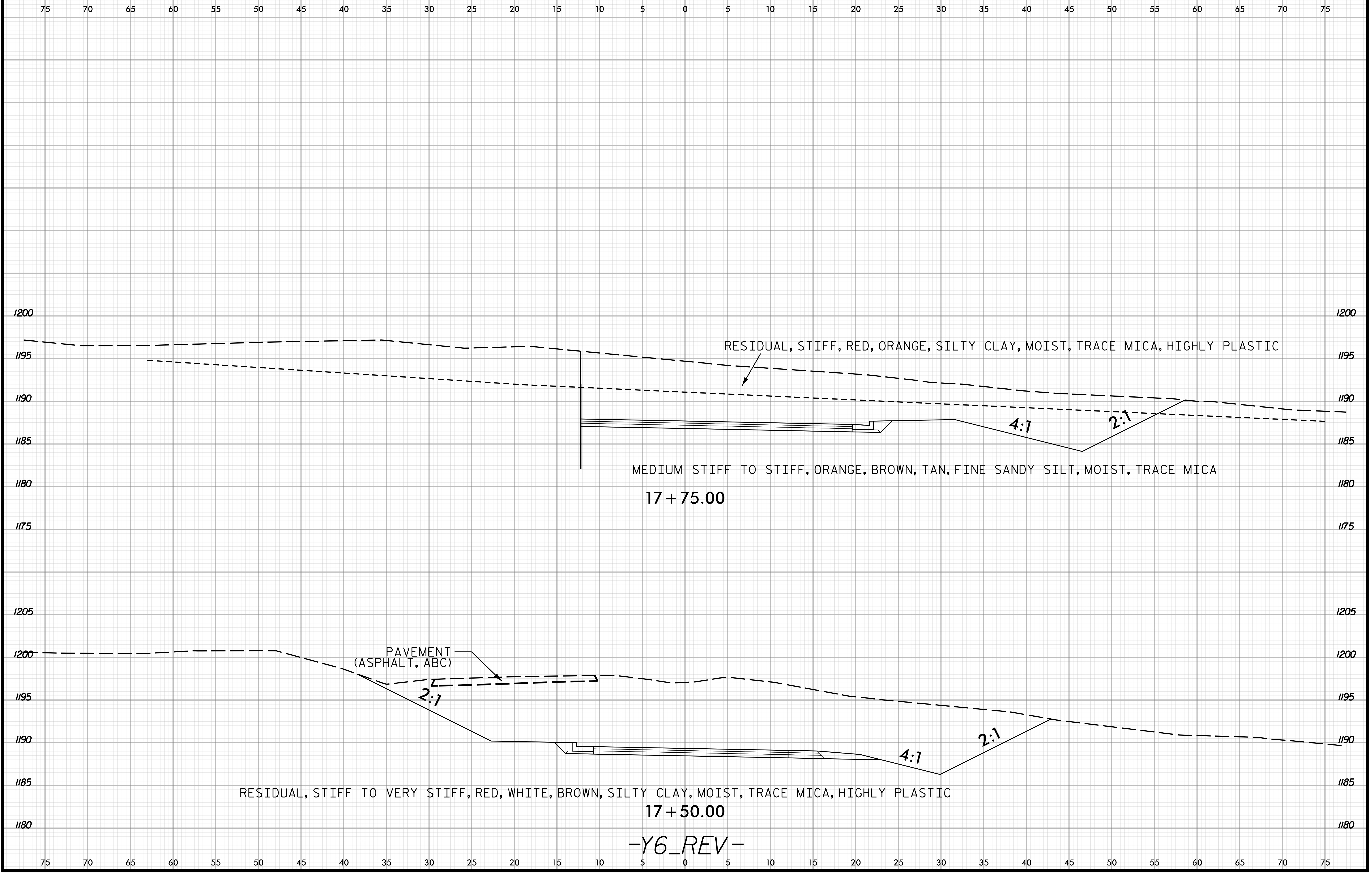

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PROJ. REFERENCE NO.	SHEET NO.
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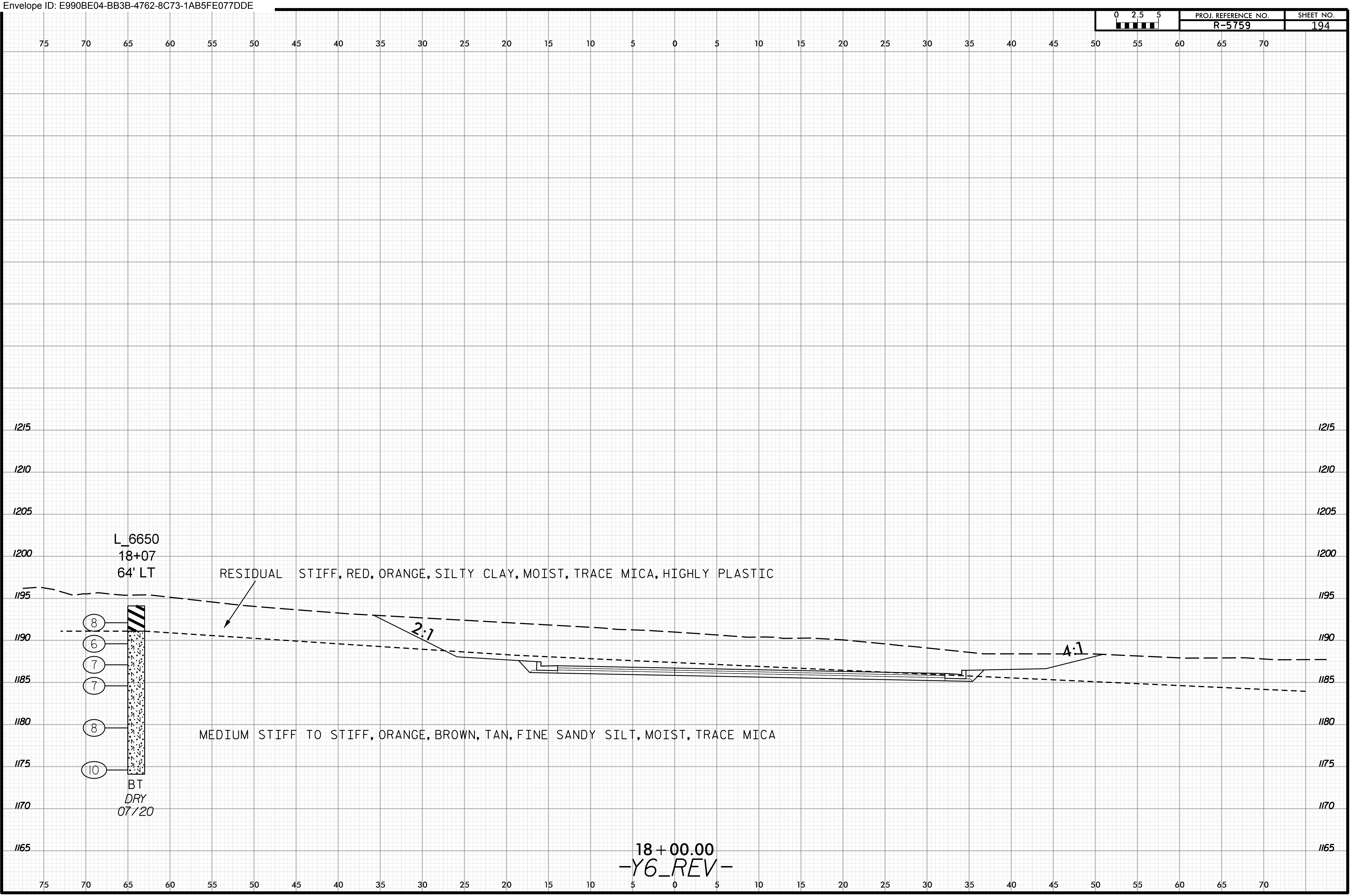
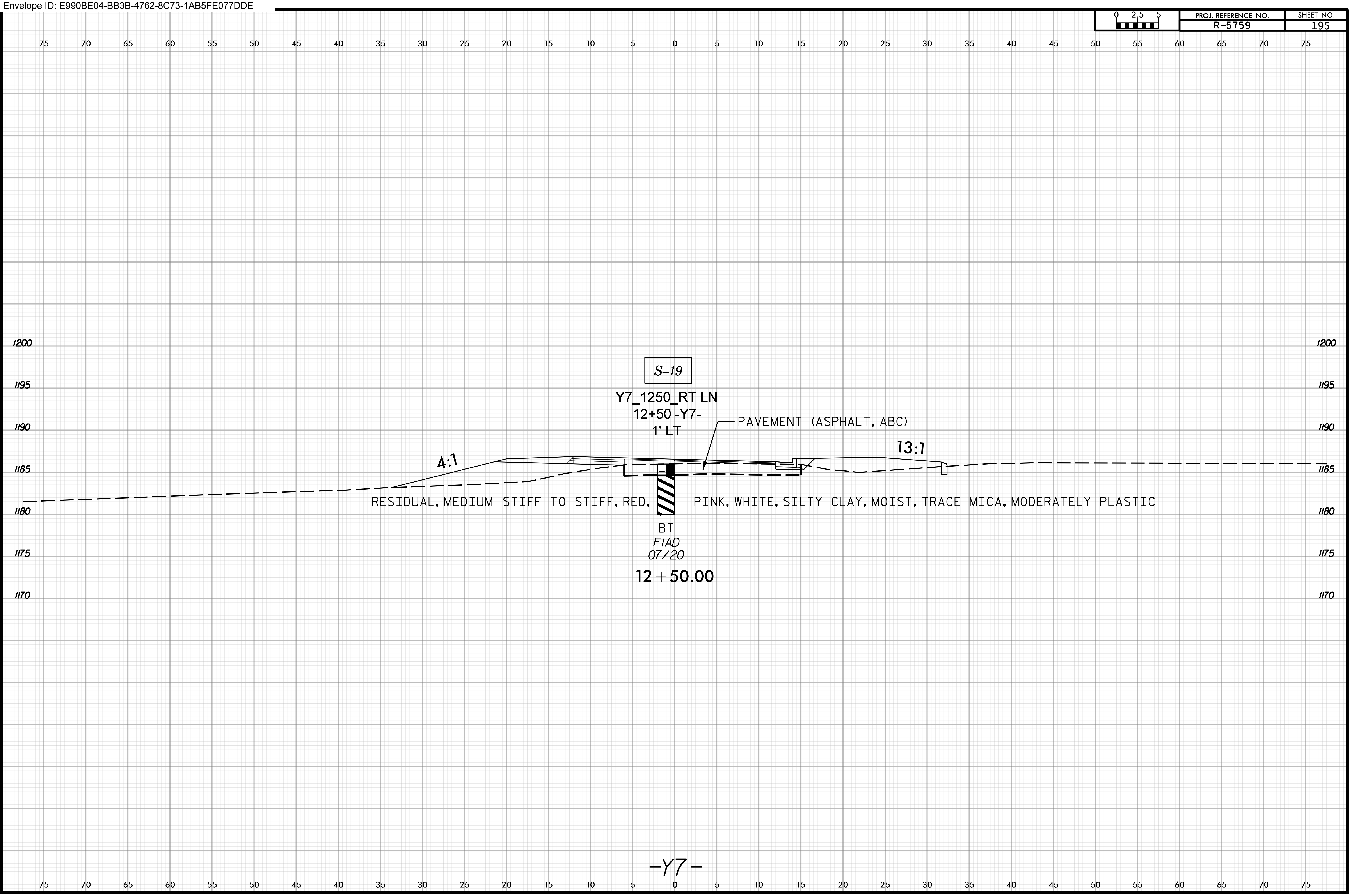


18+00.00
-Y6_REV-

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

PROJ. REFERENCE NO.	SHEET NO.
R-5759	195



14-AUG-2024 10:41
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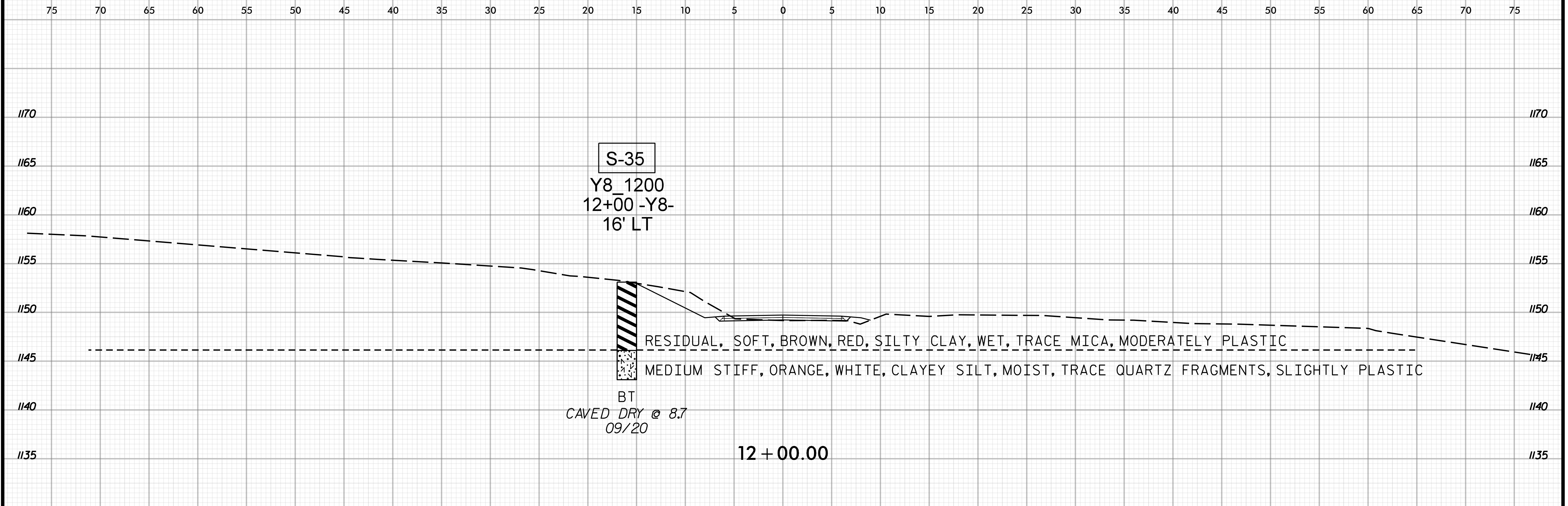
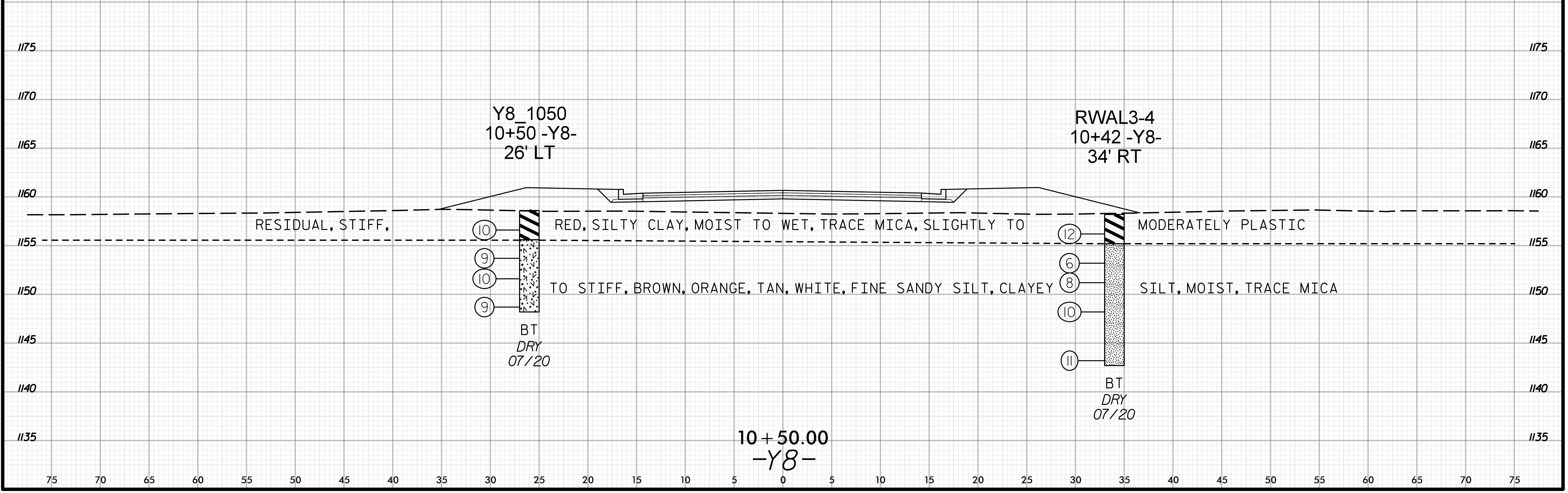
mlhartman AT W007000S0699

6/23/16





14-AUG-2024 10:41
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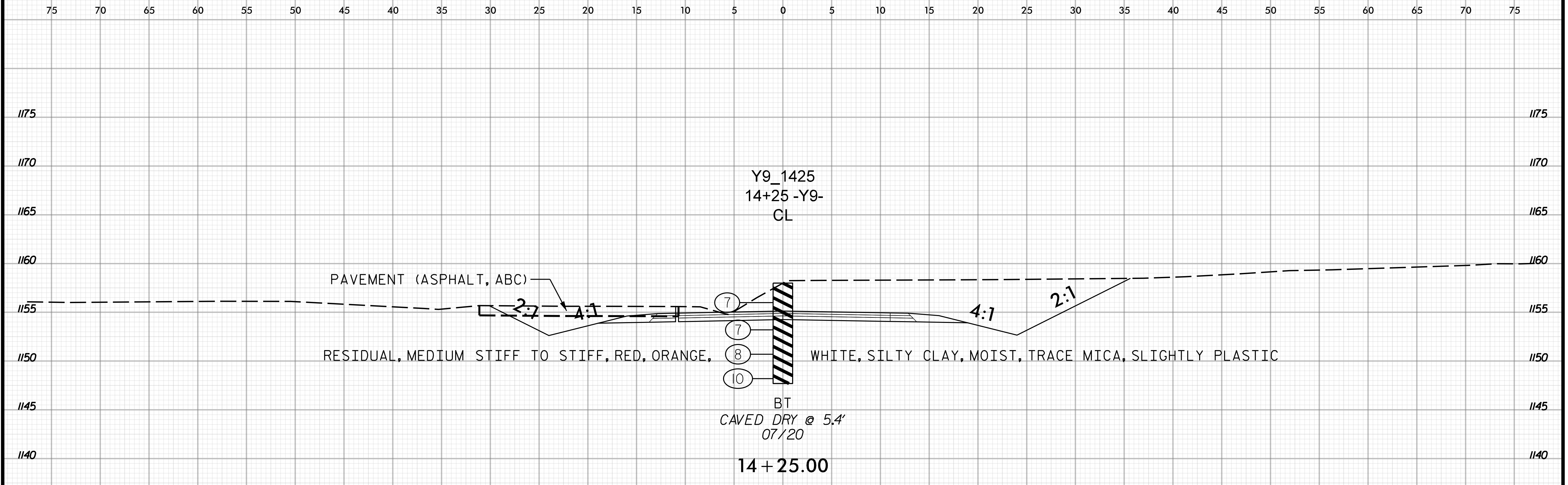
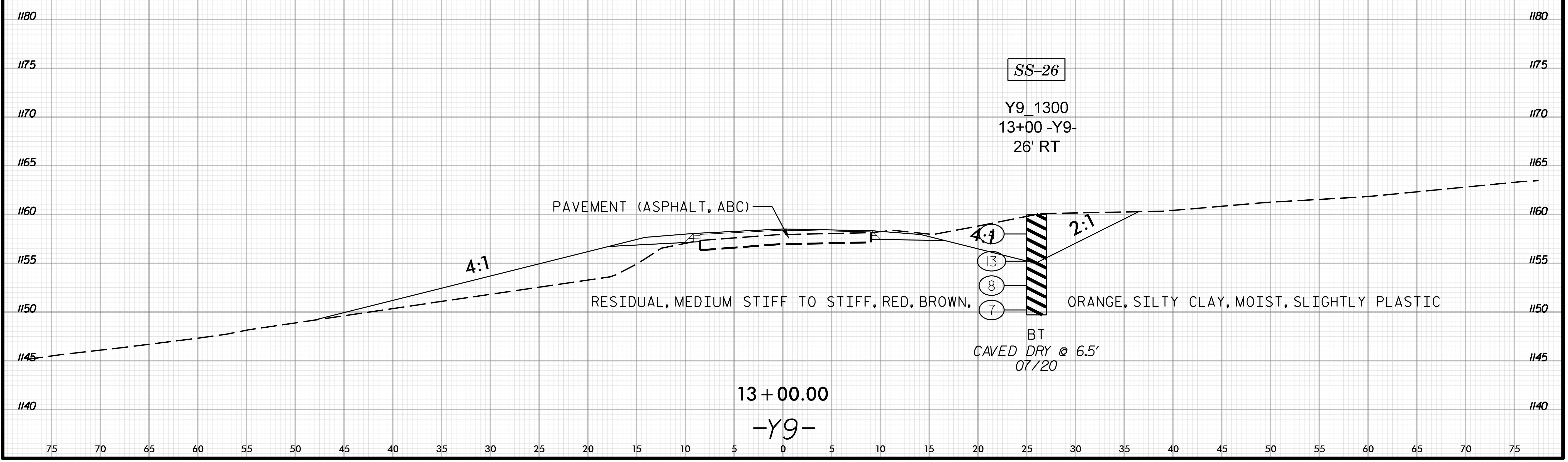
mlhartman AT W00700050699

6/23/16



14 + 25.00



13 + 00.00

-Y9-

14-AUG-2024 10:41
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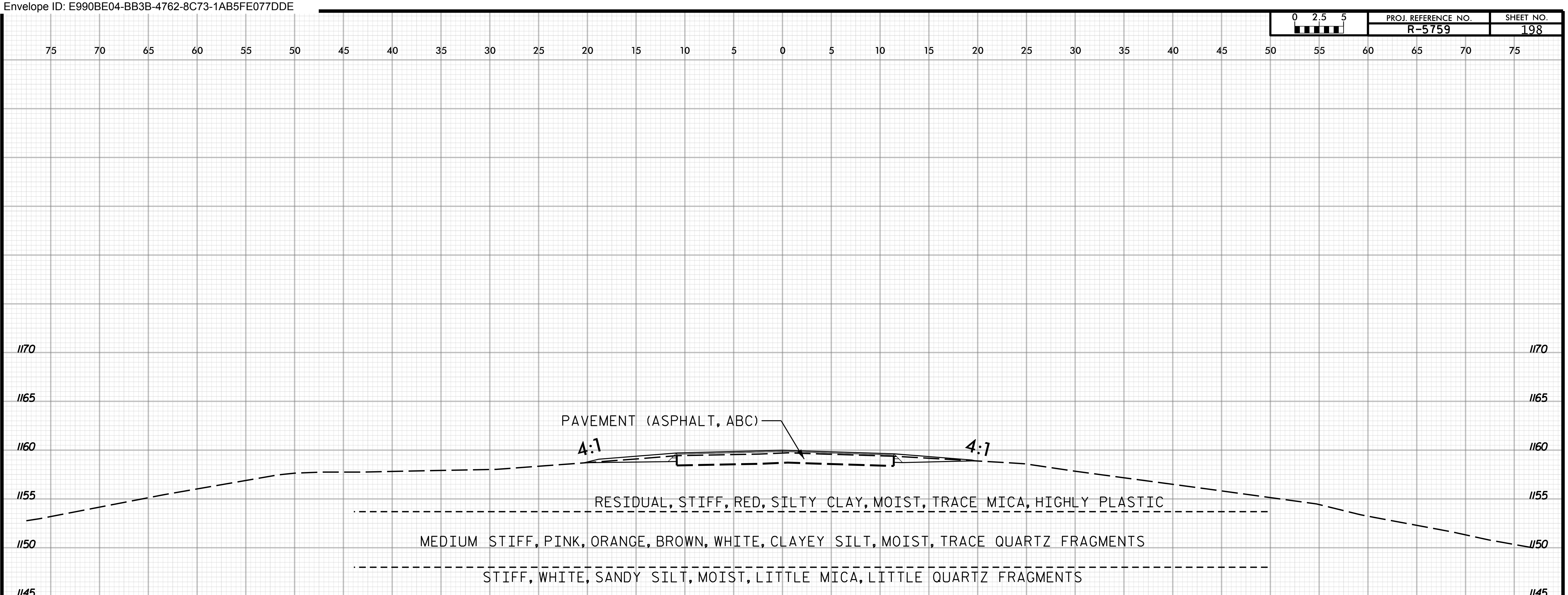
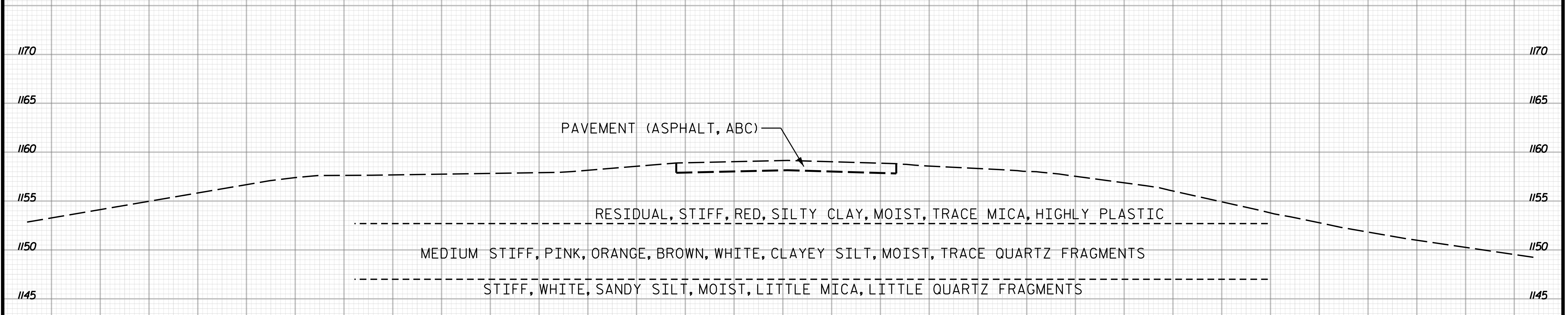
mlhartman AT W0070050699

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	198


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1170
1165
1160
1155
1150
1145
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS

10 + 25.00


1170
1165
1160
1155
1150
1145
1140
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

10 + 00.00

-Y10-

14-AUG-2024 10:41
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mlhartman AT W0070050699

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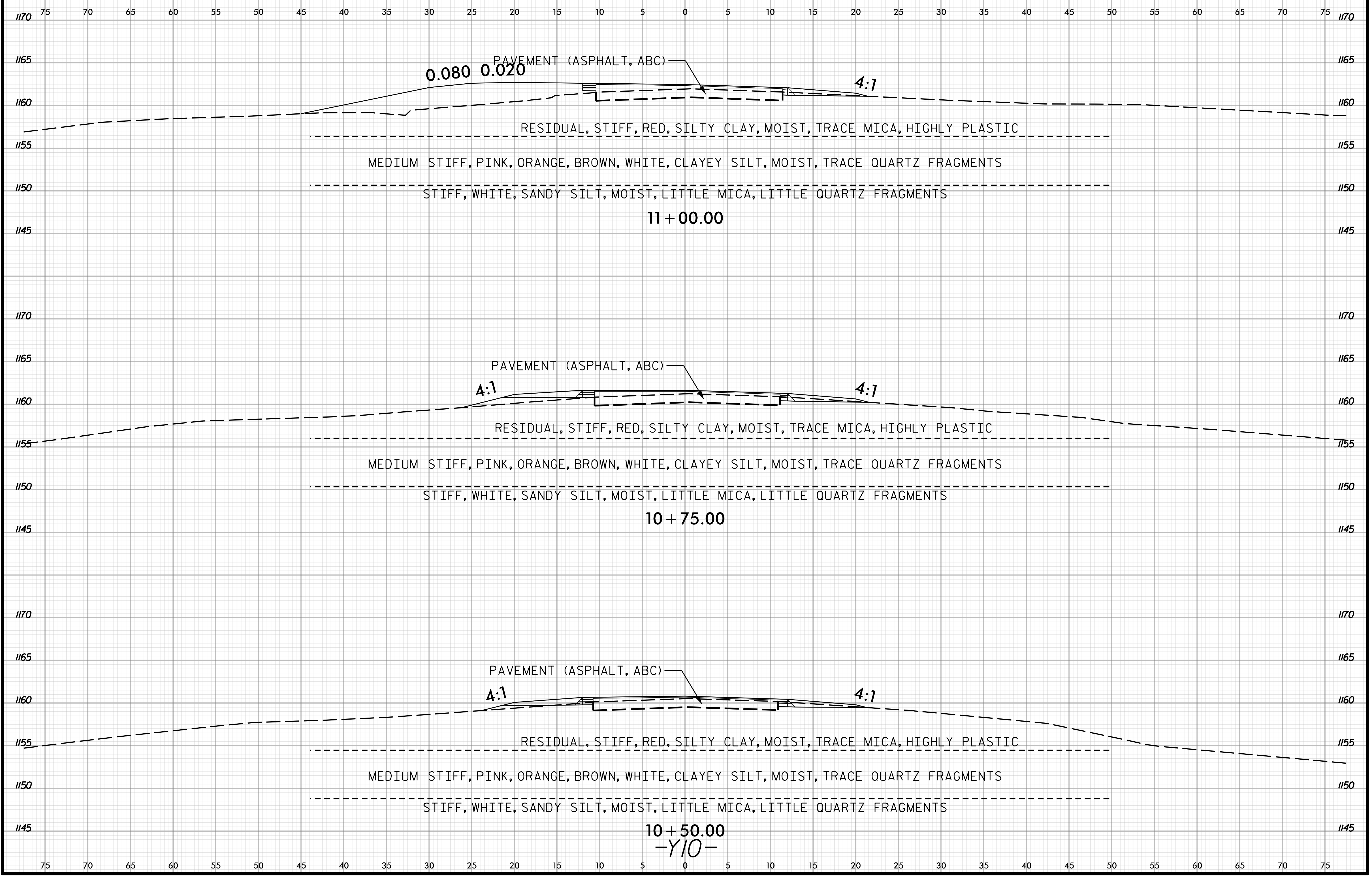
PAVEMENT (ASPHALT, ABC)
0.080 0.020
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
11+00.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
10+75.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
10+50.00
-Y10-
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1170 1165 1160 1155 1150 1145

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mlhartman AT W0070050699

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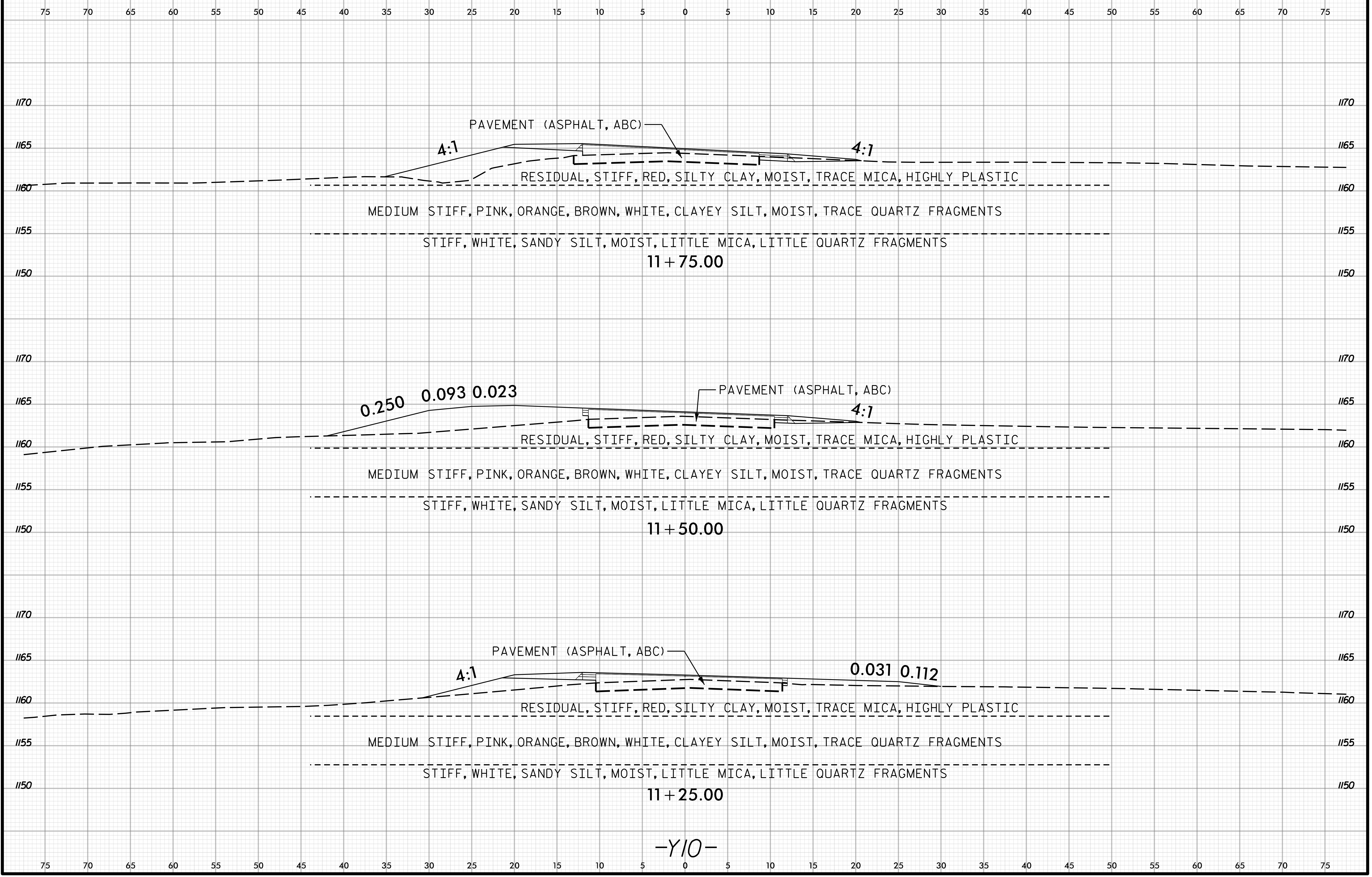
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1170
1165
1160
1155
1150
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
11+75.00
0.250
0.093
0.023
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
11+50.00
PAVEMENT (ASPHALT, ABC)
4:1
0.031
0.112
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
11+25.00
-Y10-

6/23/16

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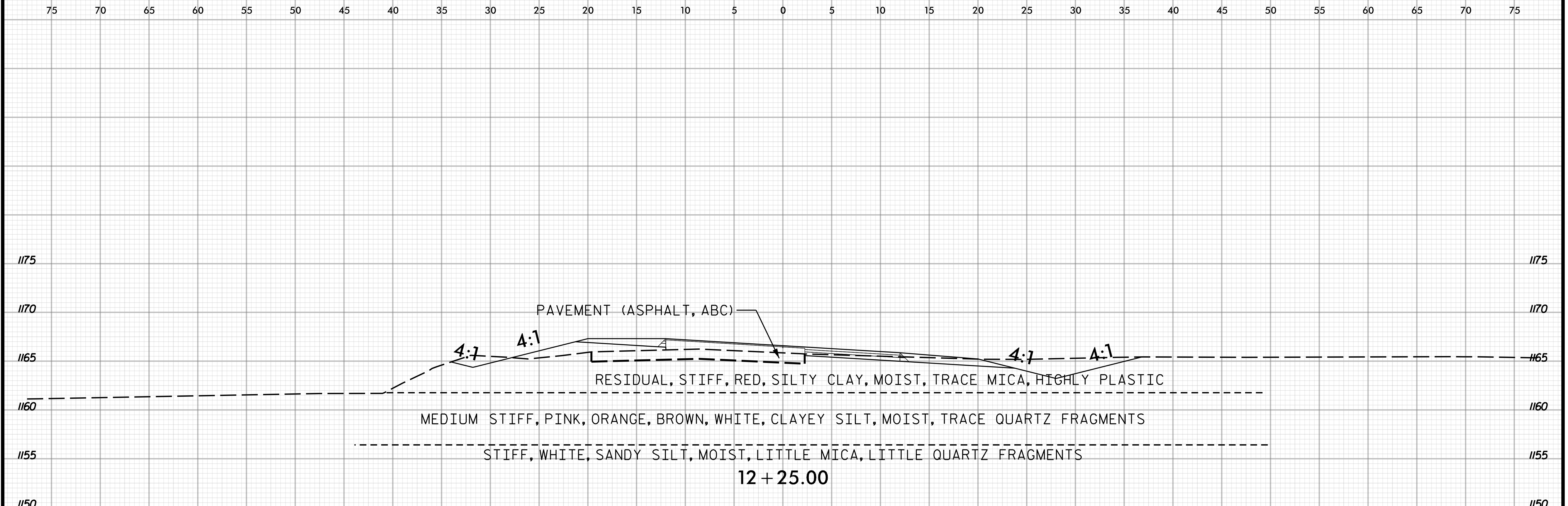
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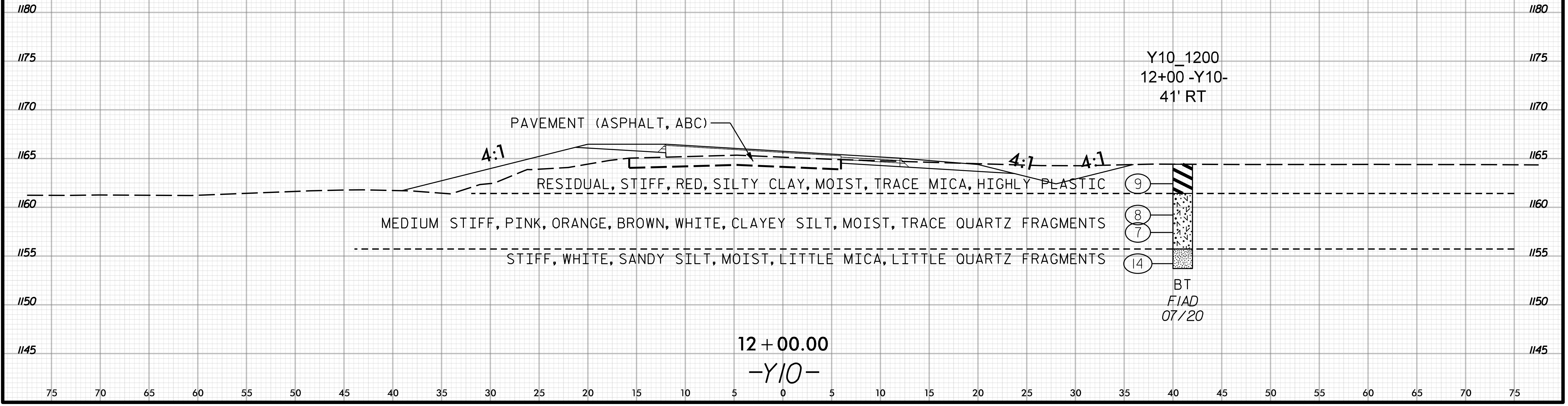
1175
1170
1165
1160
1155
1150
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS

12 + 25.00


1180
1175
1170
1165
1160
1155
1150
1145
Y10_1200
12+00 -Y10-
41' RT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
9
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
8
7
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
14
BT
FIAD
07/20
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

12 + 00.00

-Y10-

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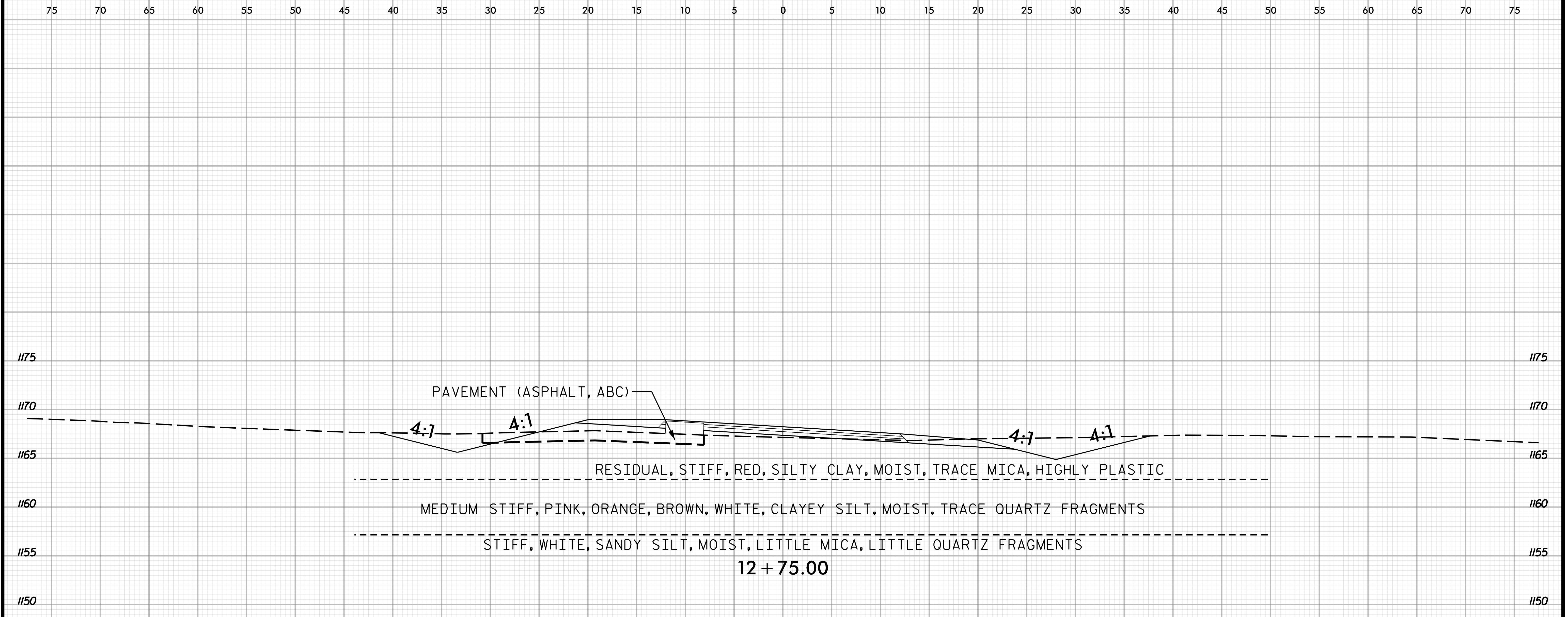
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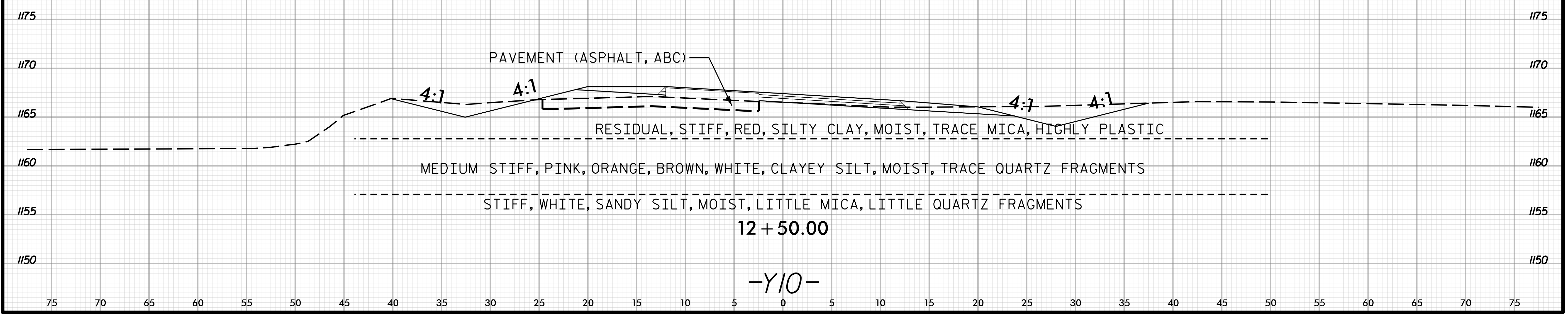
1175
1170
1165
1160
1155
1150
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS

12 + 75.00


1175
1170
1165
1160
1155
1150
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

12 + 50.00

-Y10-

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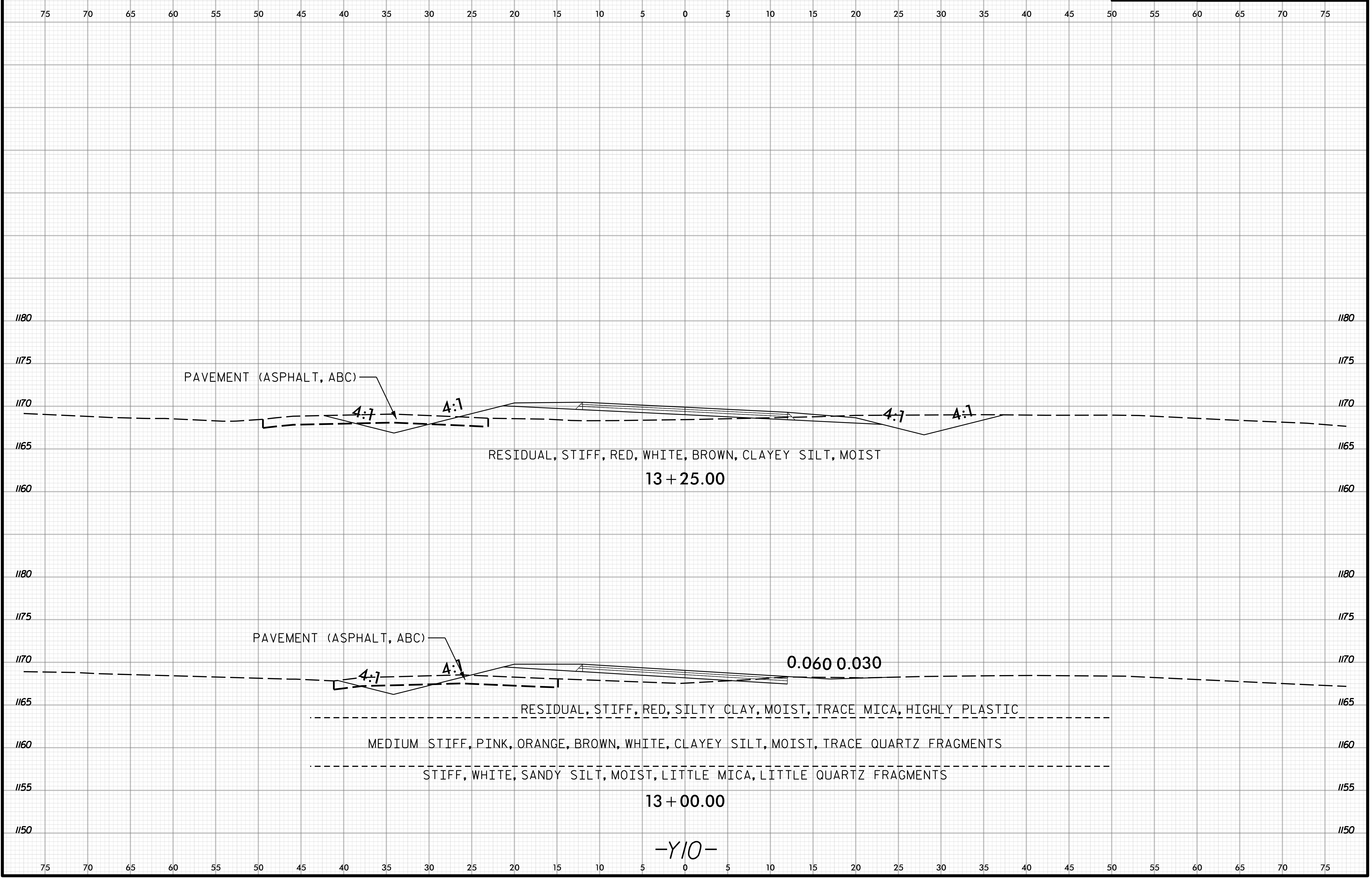
mlhartman AT W00700050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	203

6/23/16


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1180
1175
1170
1165
1160
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
4:1
RESIDUAL, STIFF, RED, WHITE, BROWN, CLAYEY SILT, MOIST
13+25.00
1180
1175
1170
1165
1160
1155
1150
PAVEMENT (ASPHALT, ABC)
4:1
4:1
0.060 0.030
RESIDUAL, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, PINK, ORANGE, BROWN, WHITE, CLAYEY SILT, MOIST, TRACE QUARTZ FRAGMENTS
STIFF, WHITE, SANDY SILT, MOIST, LITTLE MICA, LITTLE QUARTZ FRAGMENTS
13+00.00
-Y10-

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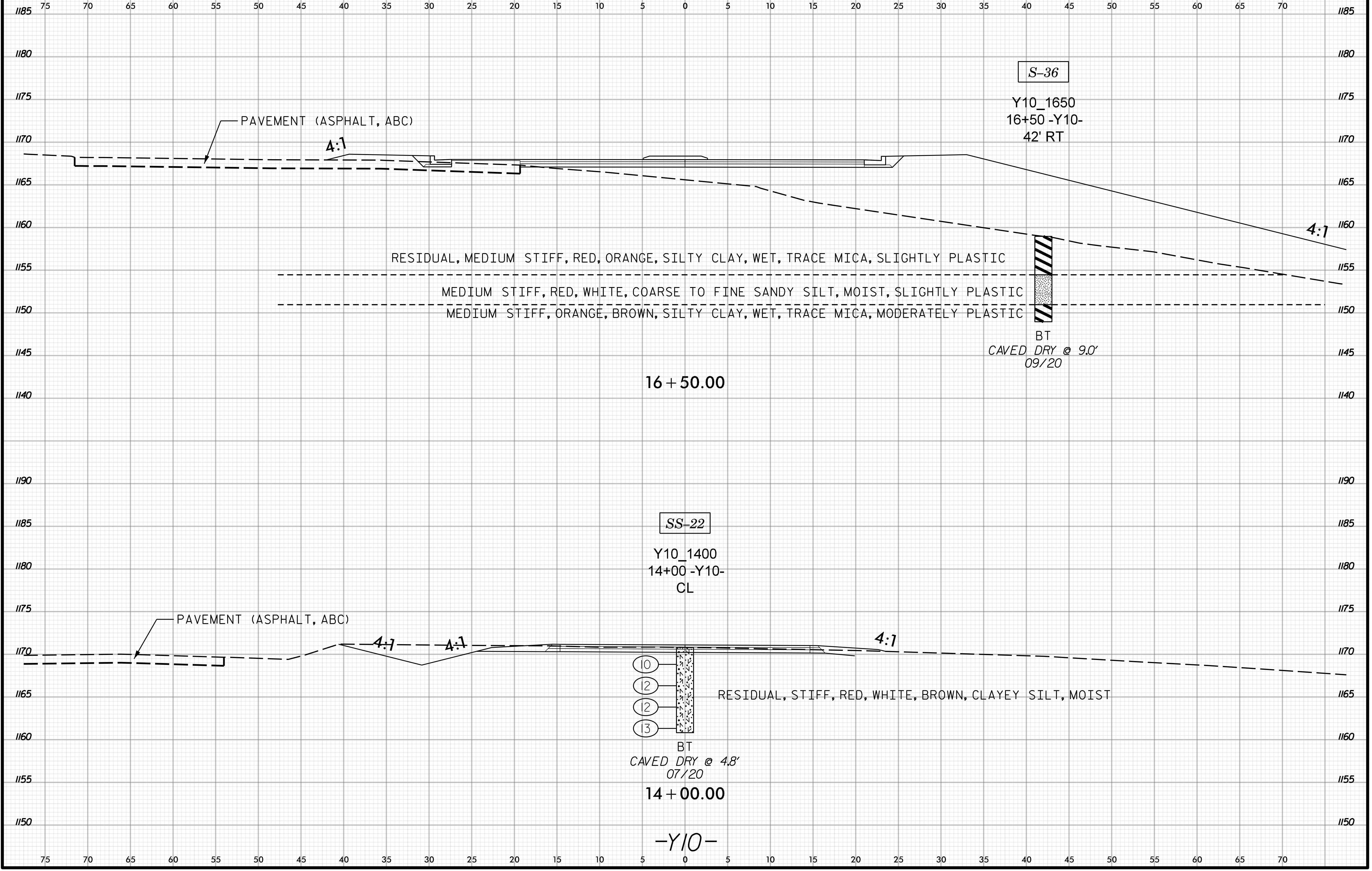

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mlhartman AT W0070050699

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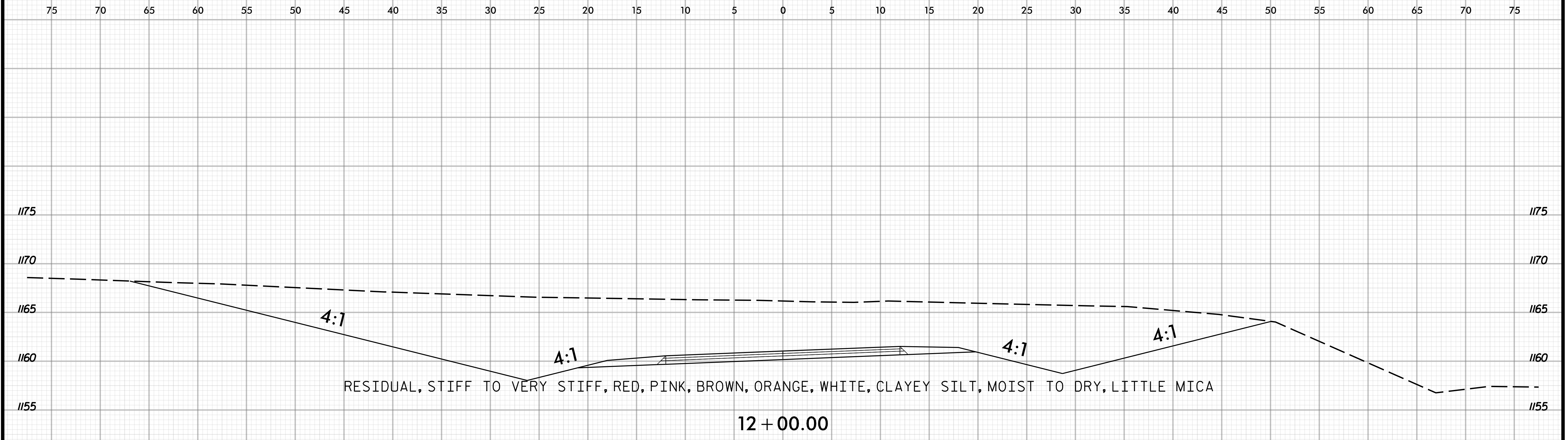

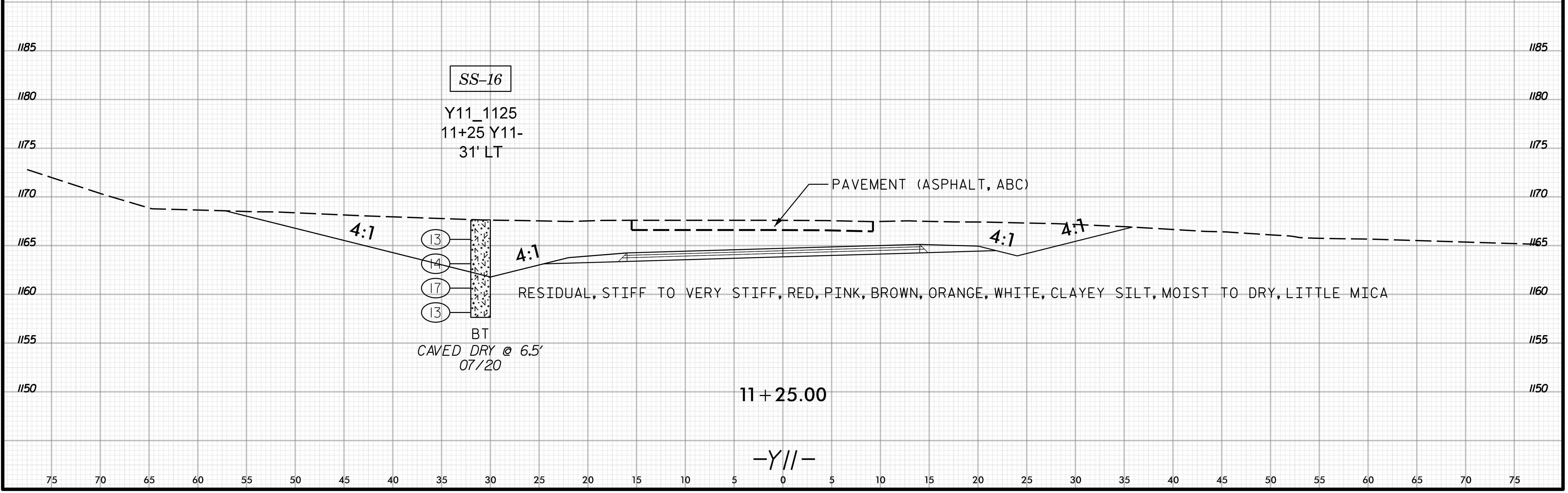

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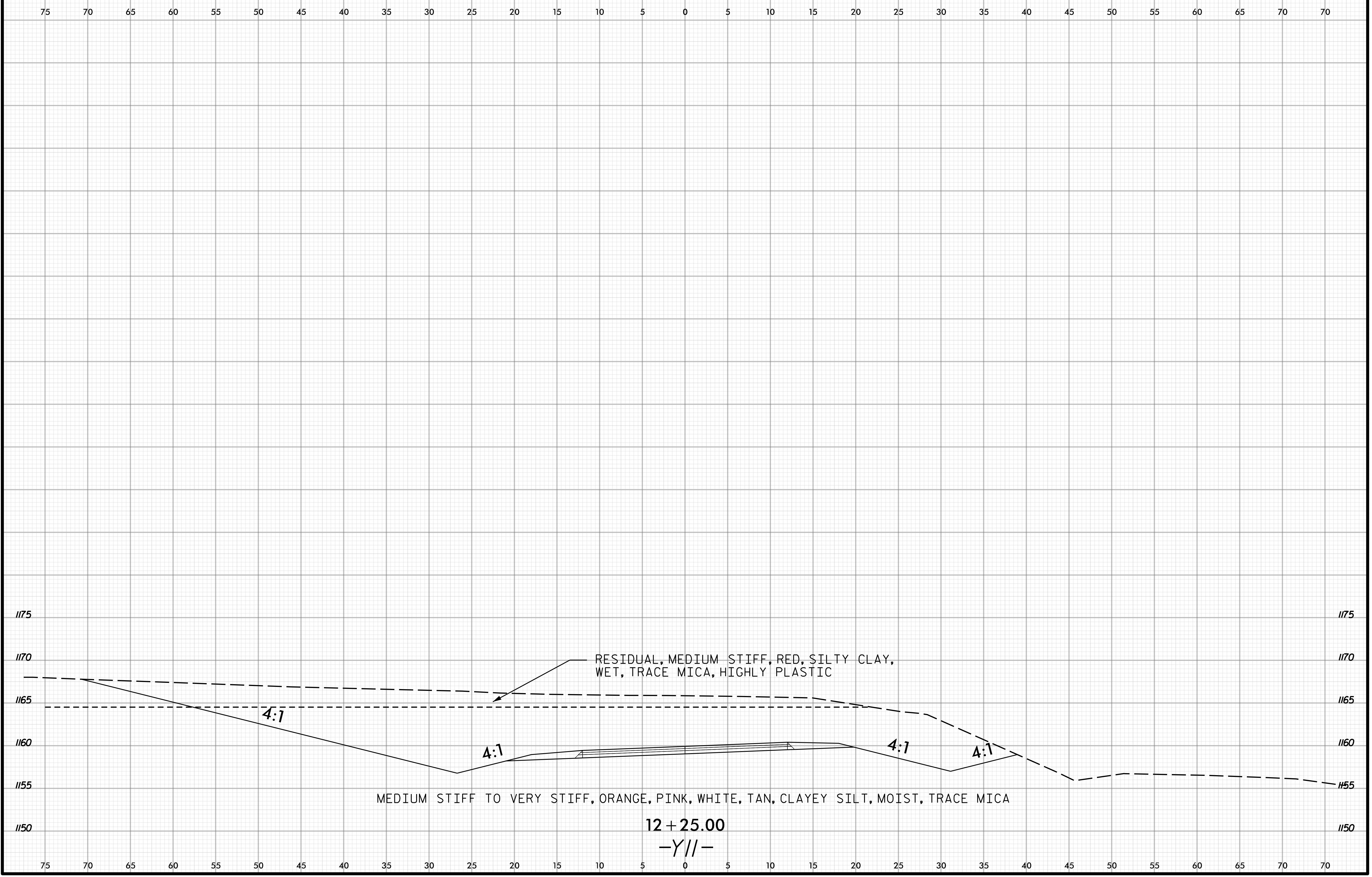

RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC

MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA

12+25.00

-Y11-

6/23/16

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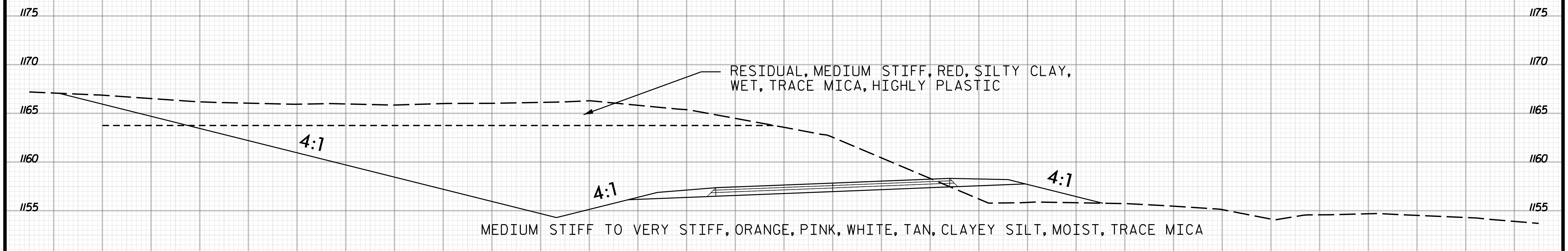
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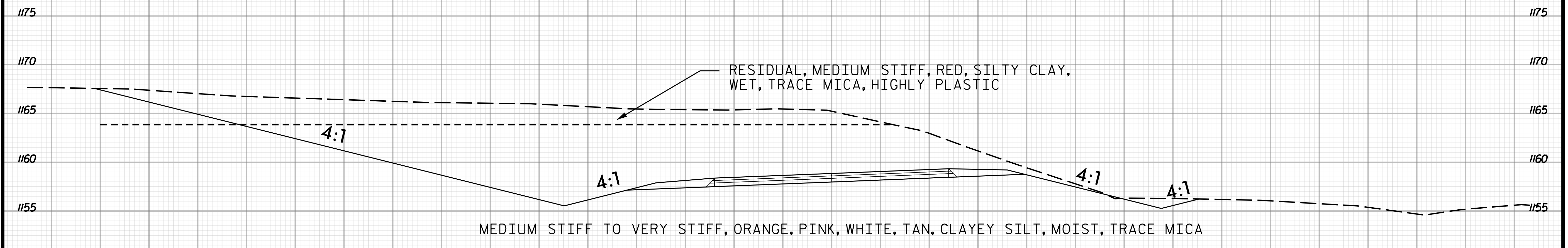
60
1175
1170
1165
1160
1155
1150
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
4:1
4:1
4:1
MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA

12 + 75.00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1170
1165
1160
1155
1150
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
4:1
4:1
4:1
4:1
MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA

12 + 50.00

–Y11–

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6/23/16

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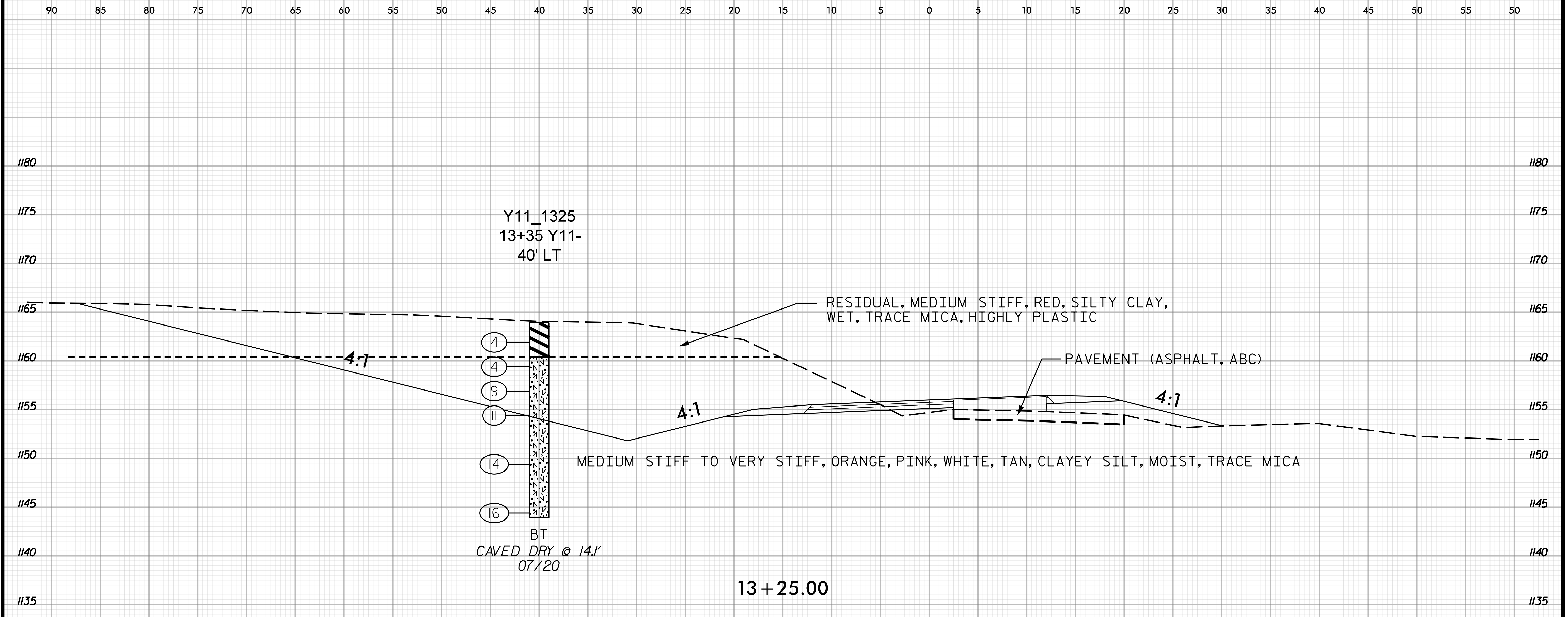
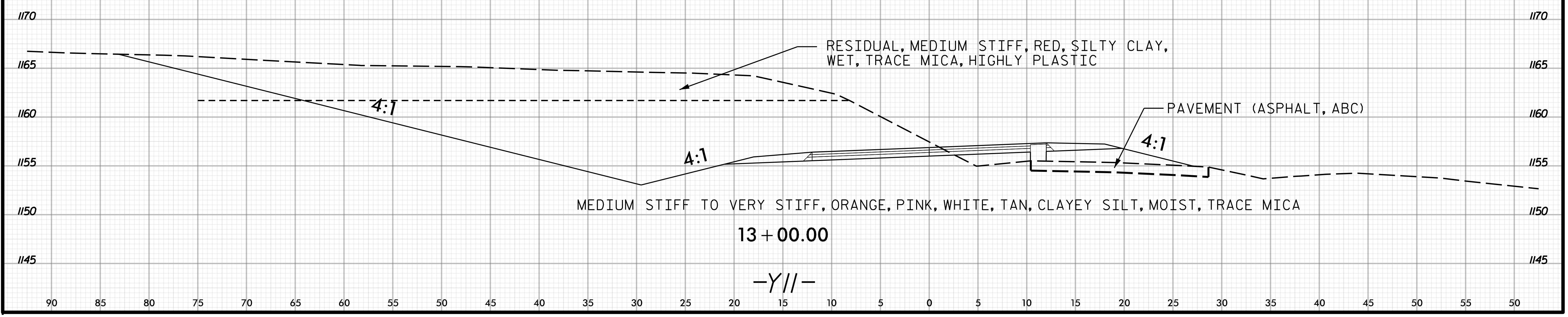


13+25.00


1170
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4:1
4:1
4:1
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY,
WET, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 50

13+00.00

-Y11-

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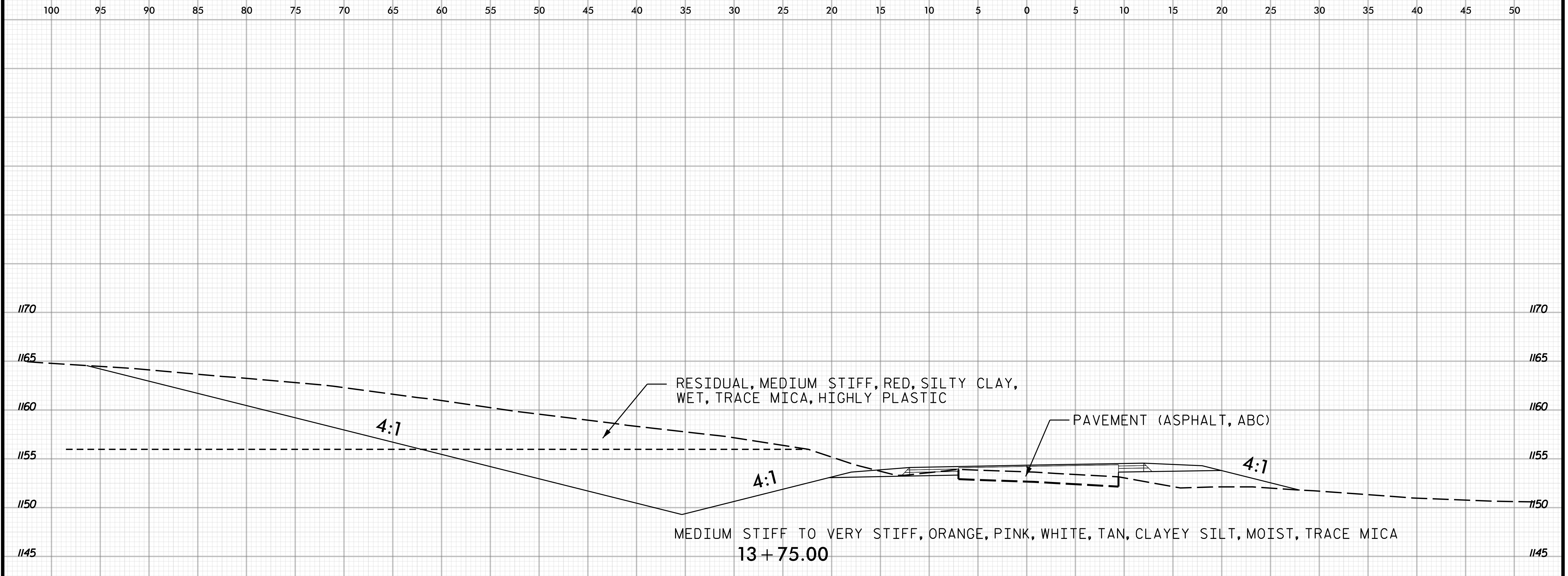
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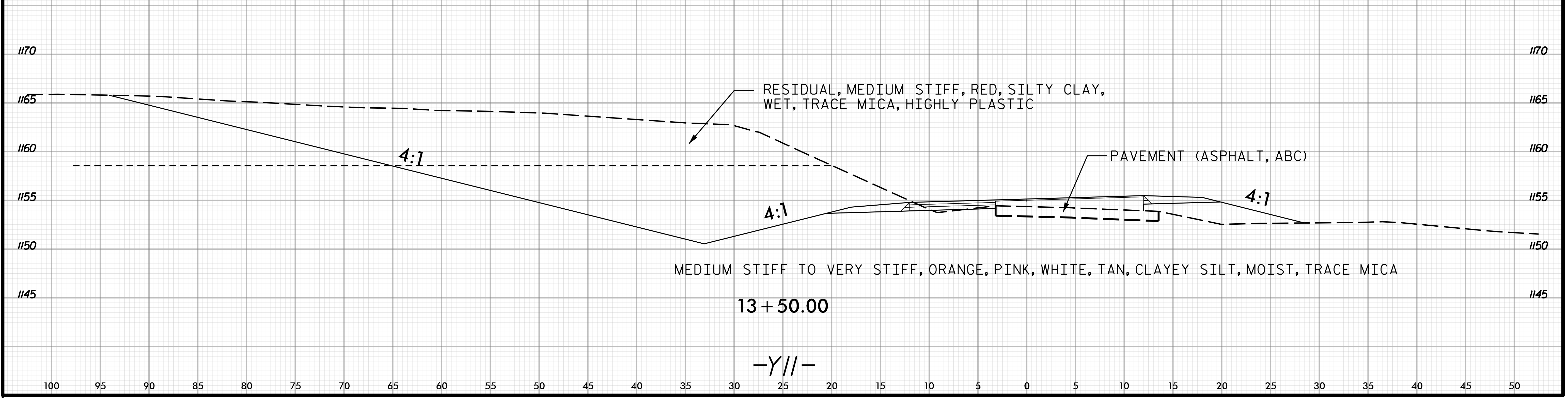
0
5
10
15
20
25
30
35
40
45
50
1170
1165
1160
1155
1150
1145
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY,
WET, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA

13 + 75.00


1170
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RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY,
WET, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
4:1
4:1
MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA
100
95
90
85
80
75
70
65
60
55
50
45
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25
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10
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50

13 + 50.00

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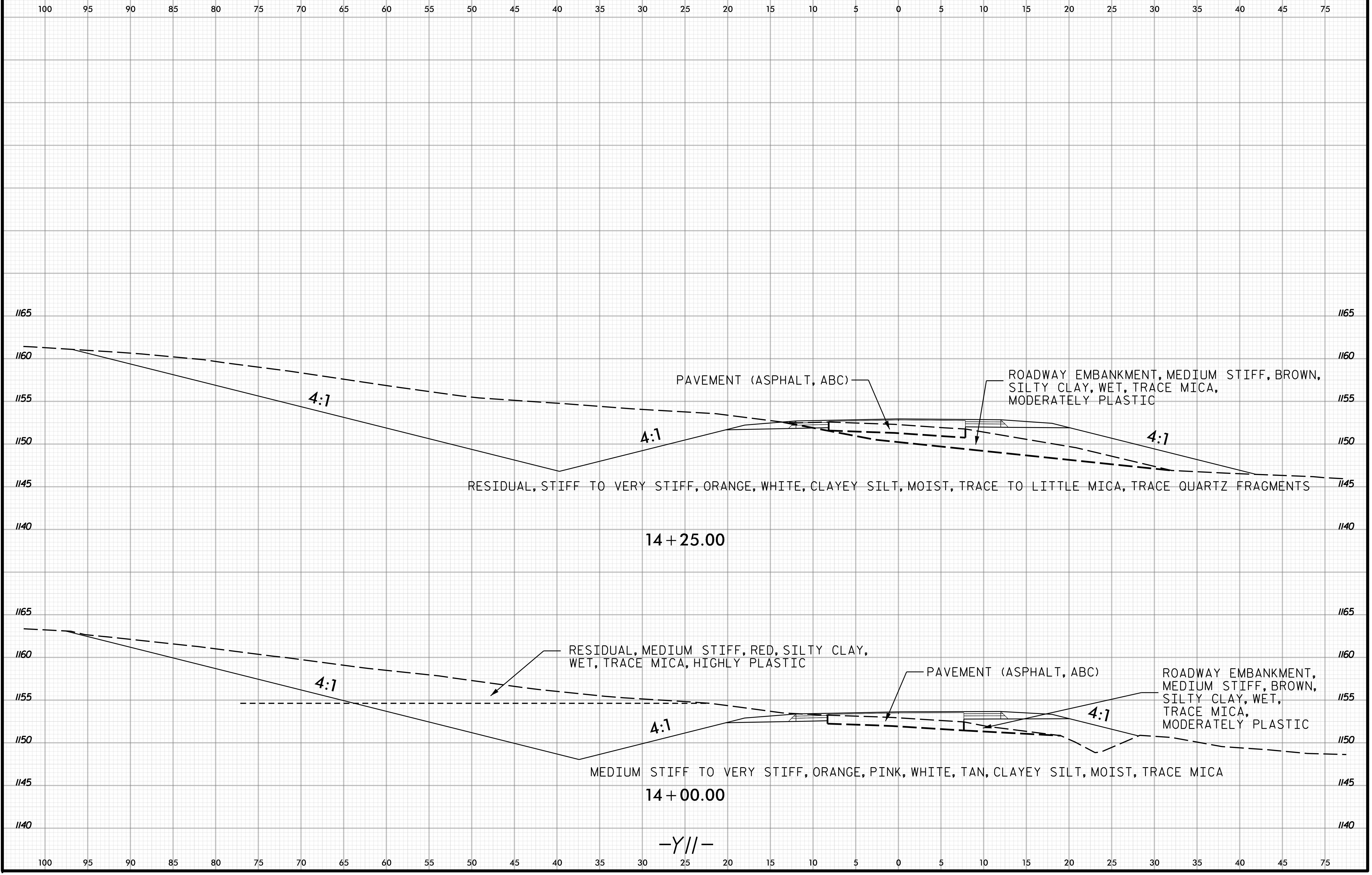
6/23/16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1165
1160
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1140
4:1
4:1
4:1
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
RESIDUAL, STIFF TO VERY STIFF, ORANGE, WHITE, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, TRACE QUARTZ FRAGMENTS
14+25.00
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
4:1
4:1
4:1
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
MEDIUM STIFF TO VERY STIFF, ORANGE, PINK, WHITE, TAN, CLAYEY SILT, MOIST, TRACE MICA
14+00.00
-Y11-

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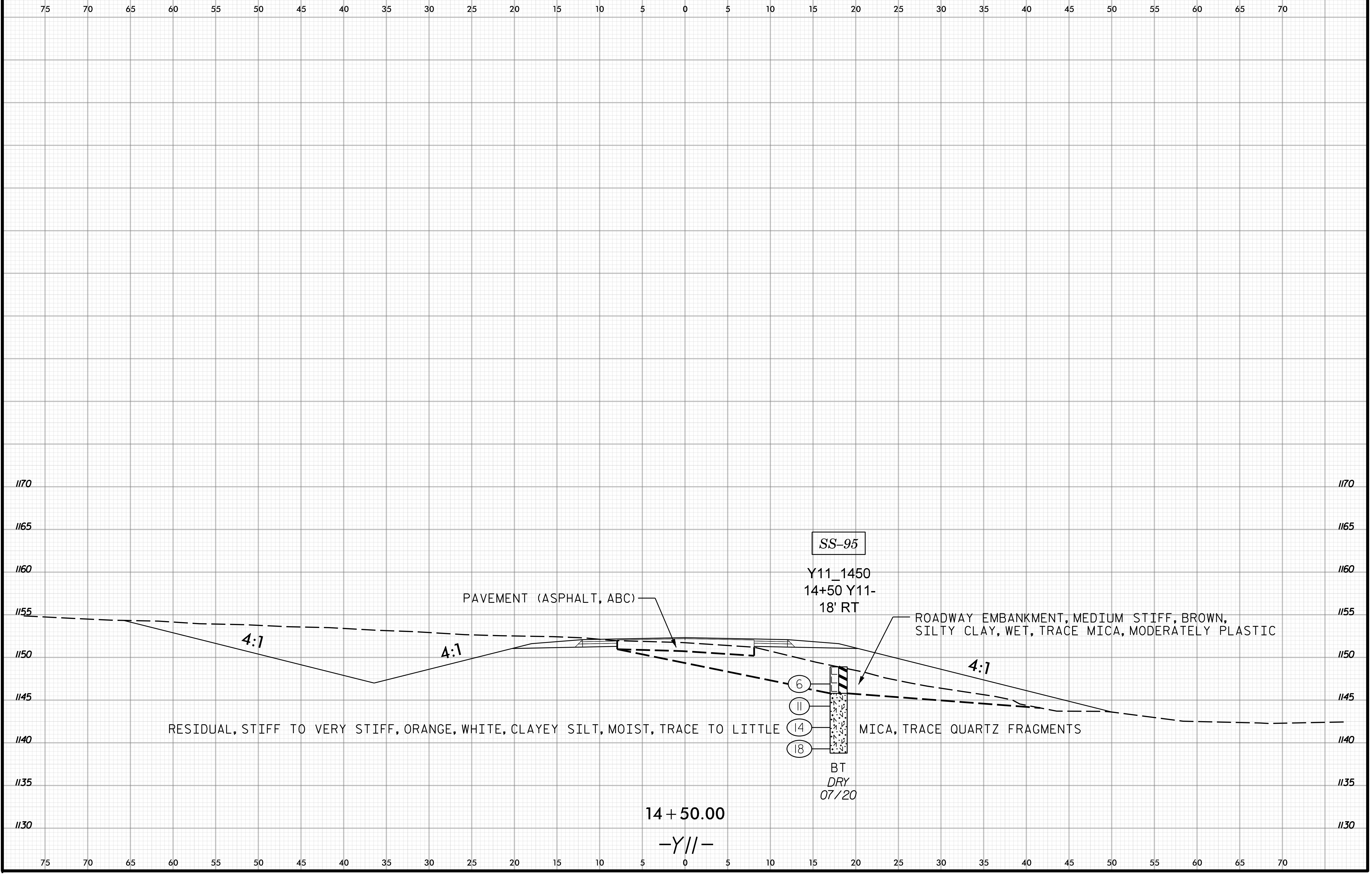

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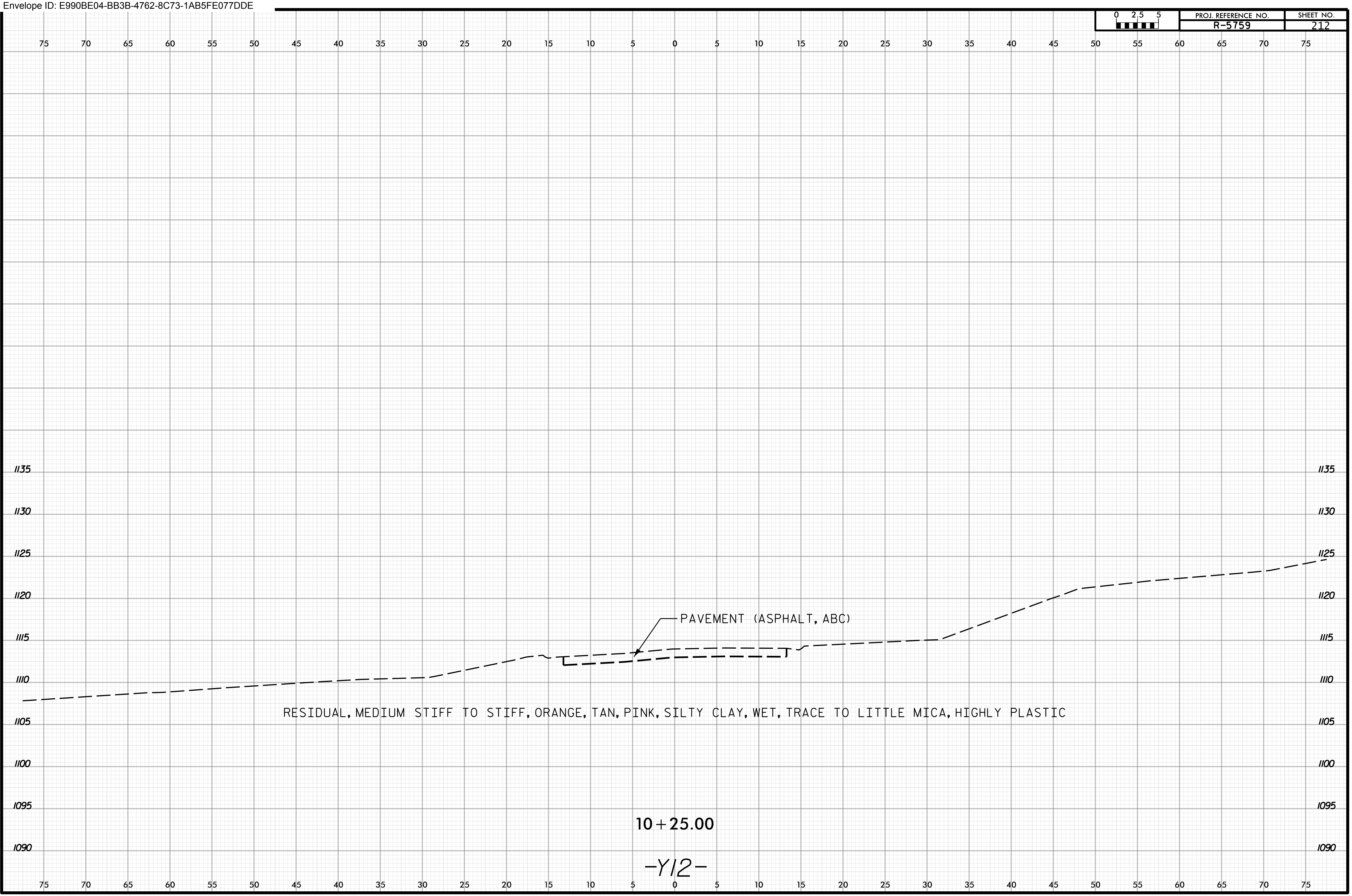

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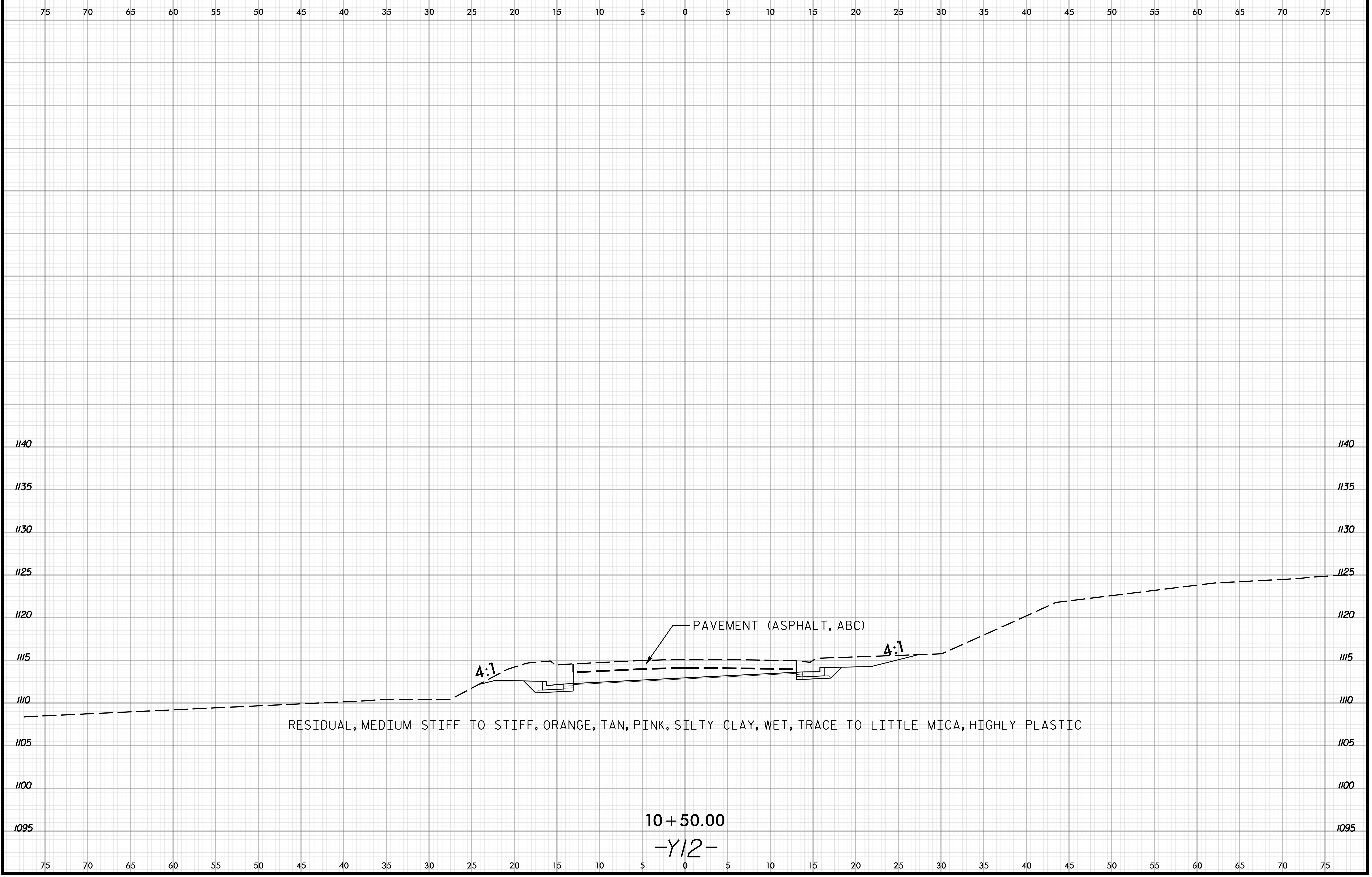
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15
10
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0
1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
4:1
4:1
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF TO STIFF, ORANGE, TAN, PINK, SILTY CLAY, WET, TRACE TO LITTLE MICA, HIGHLY PLASTIC

10+50.00

-Y12-

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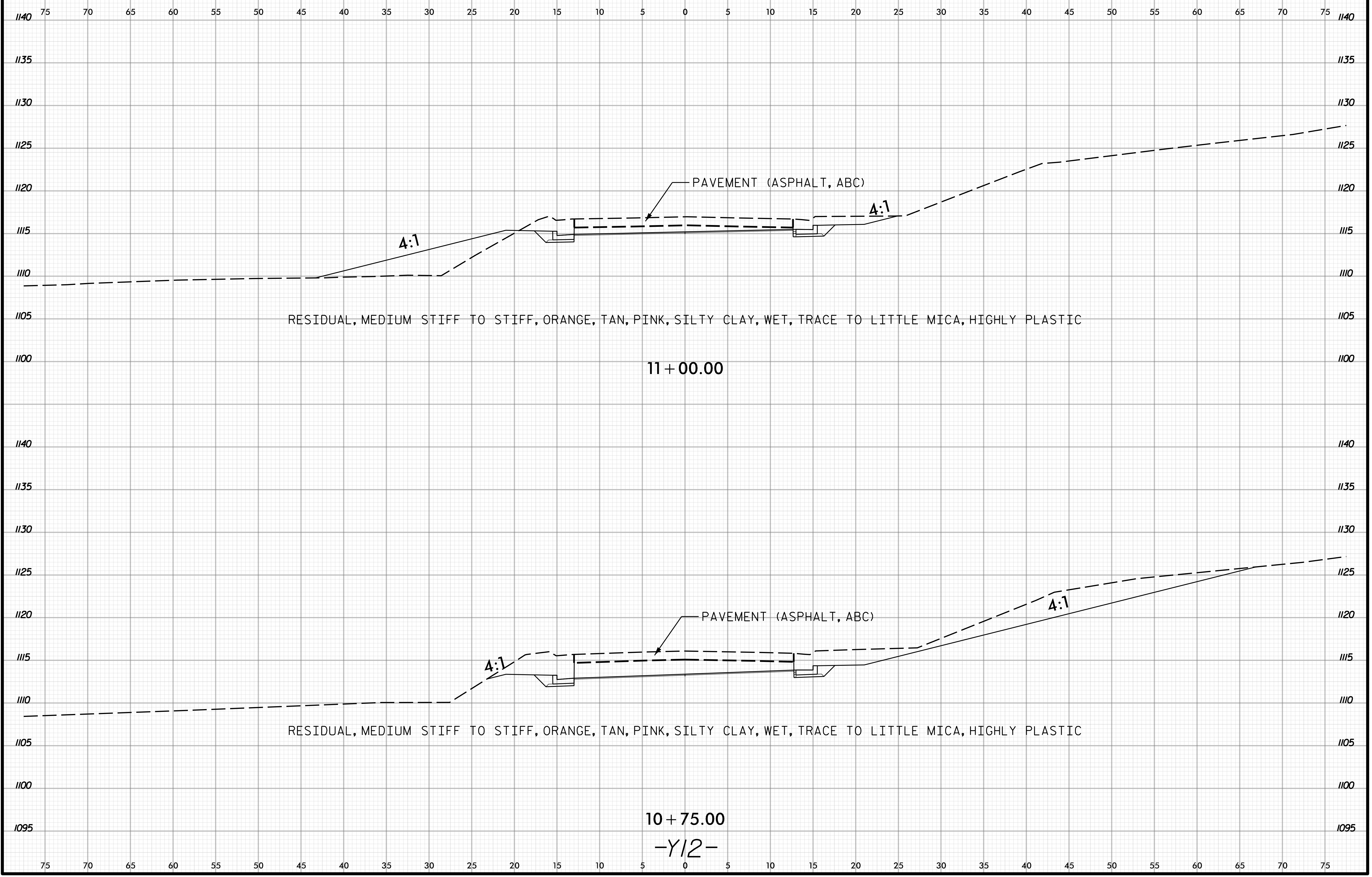
mlhartman AT W00700050699

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
R-5759	214

6/23/16


1140
1135
1130
1125
1120
1115
1110
1105
1100
1095
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, ORANGE, TAN, PINK, SILTY CLAY, WET, TRACE TO LITTLE MICA, HIGHLY PLASTIC
11+00.00
PAVEMENT (ASPHALT, ABC)
4:1
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, ORANGE, TAN, PINK, SILTY CLAY, WET, TRACE TO LITTLE MICA, HIGHLY PLASTIC
10+75.00
-Y12-

28-AUG-2024 09:43
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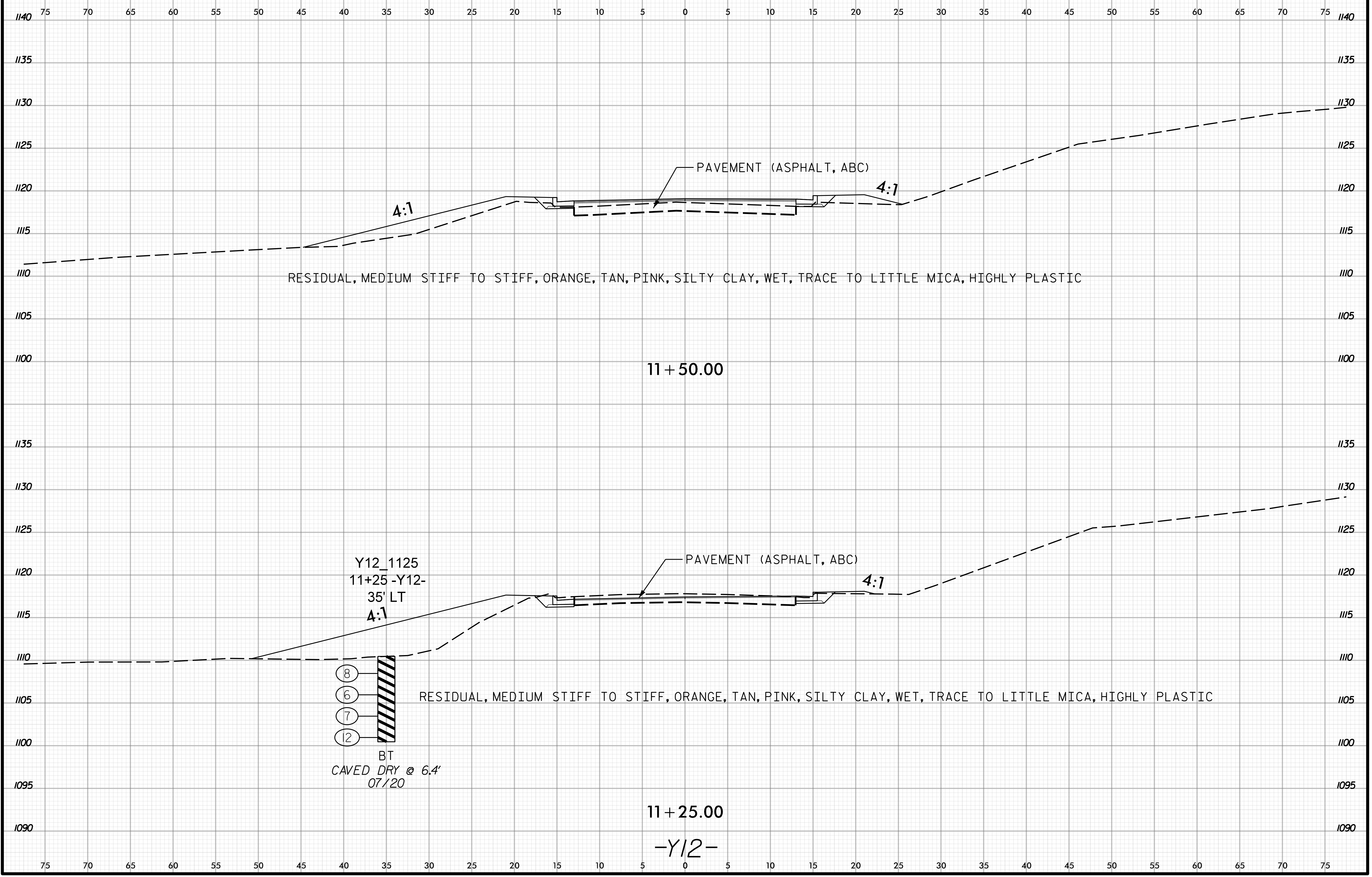
mlhartman AT W0070050699

6/23/16



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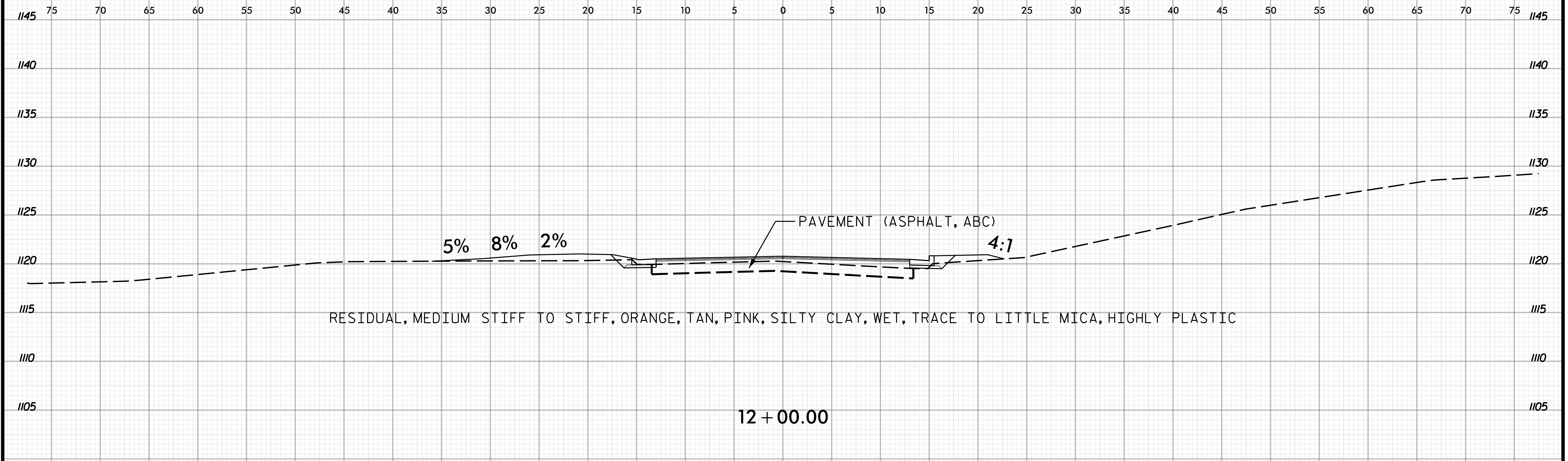
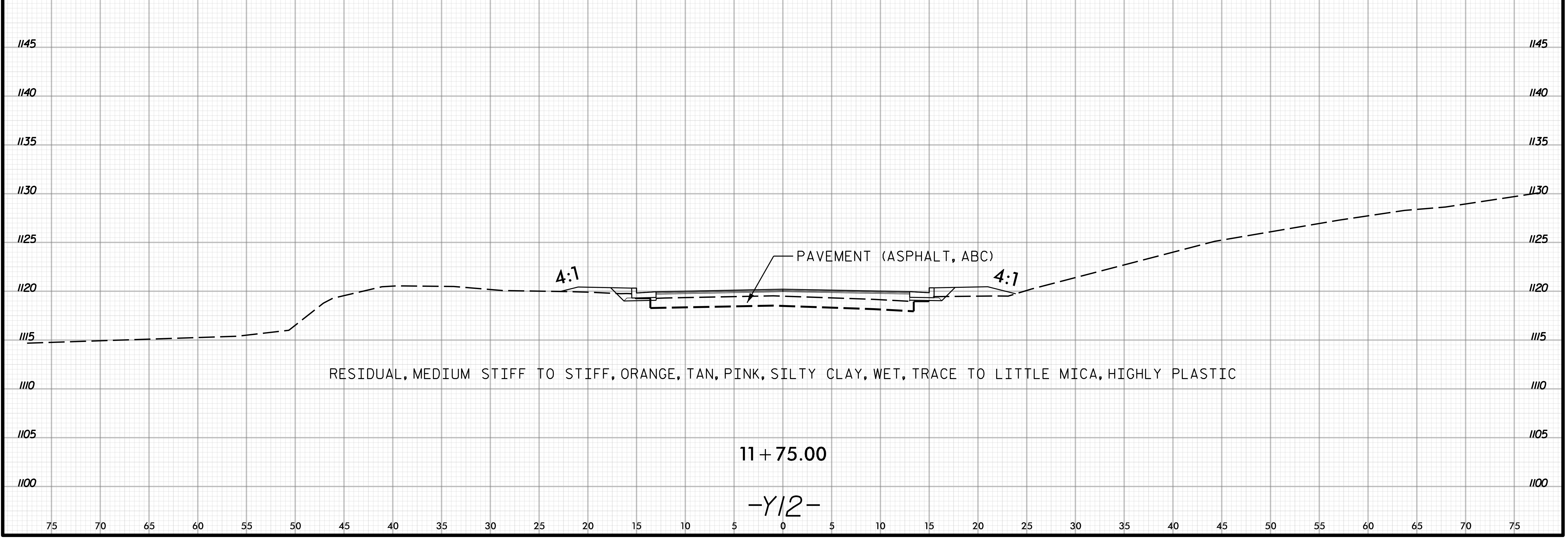
	R-5759	216



12+00.00



11+75.00

-Y12-

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6/23/16

6/23/16

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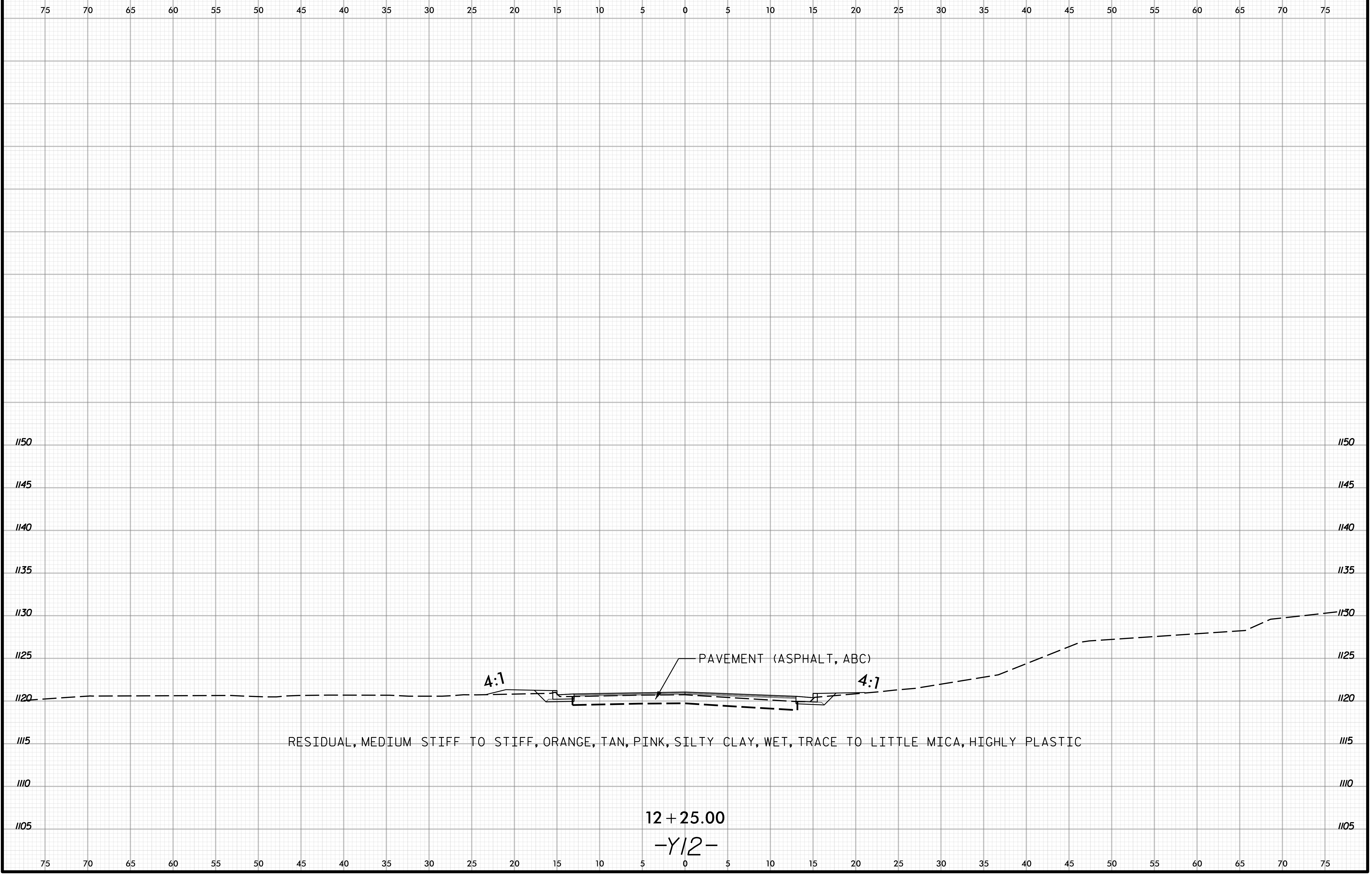

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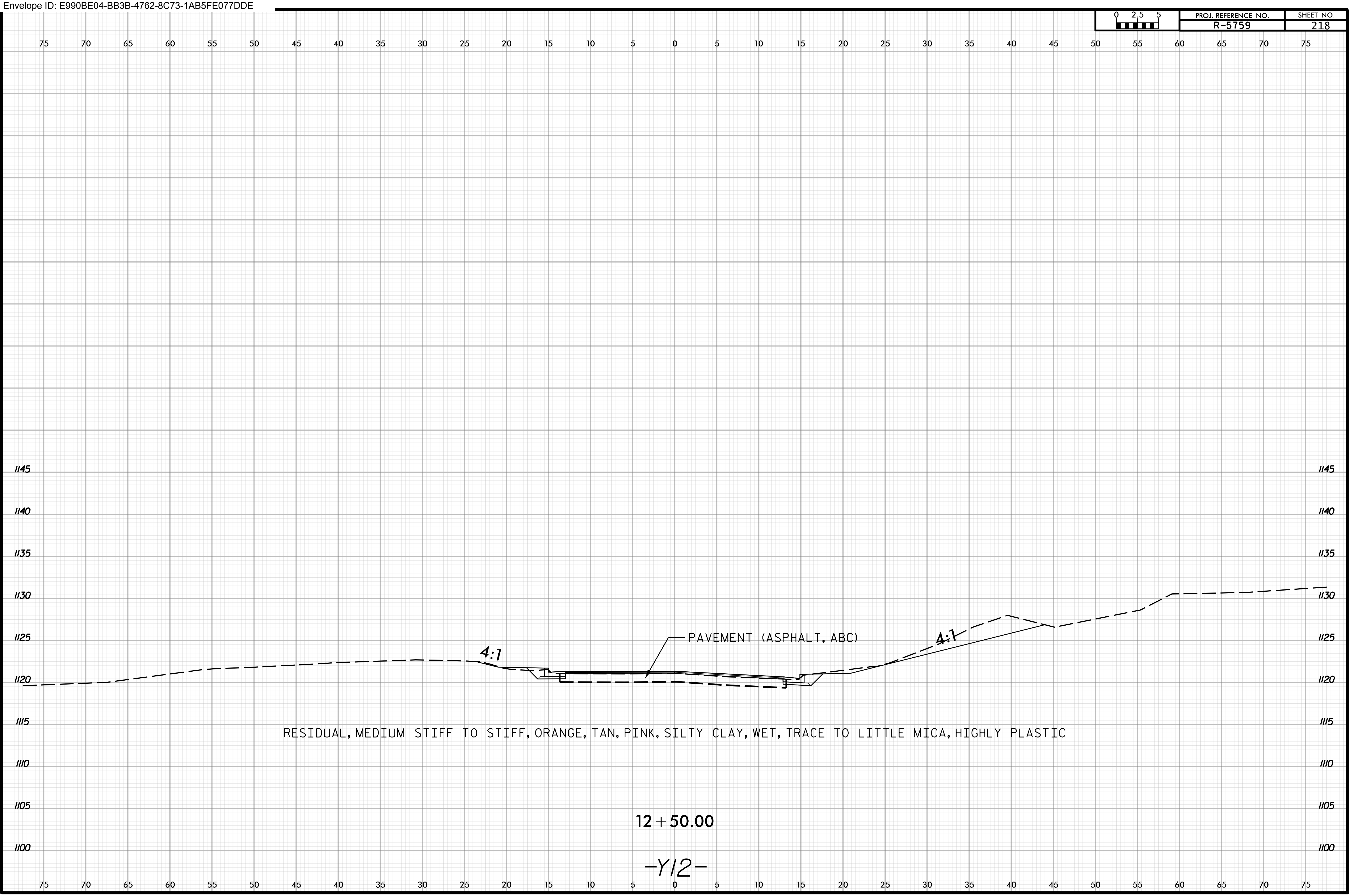

12 + 50.00

-Y12-

6/23/16

28-AUG-2024 09:43
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6/23/16

PROJ. REFERENCE NO.	SHEET NO.
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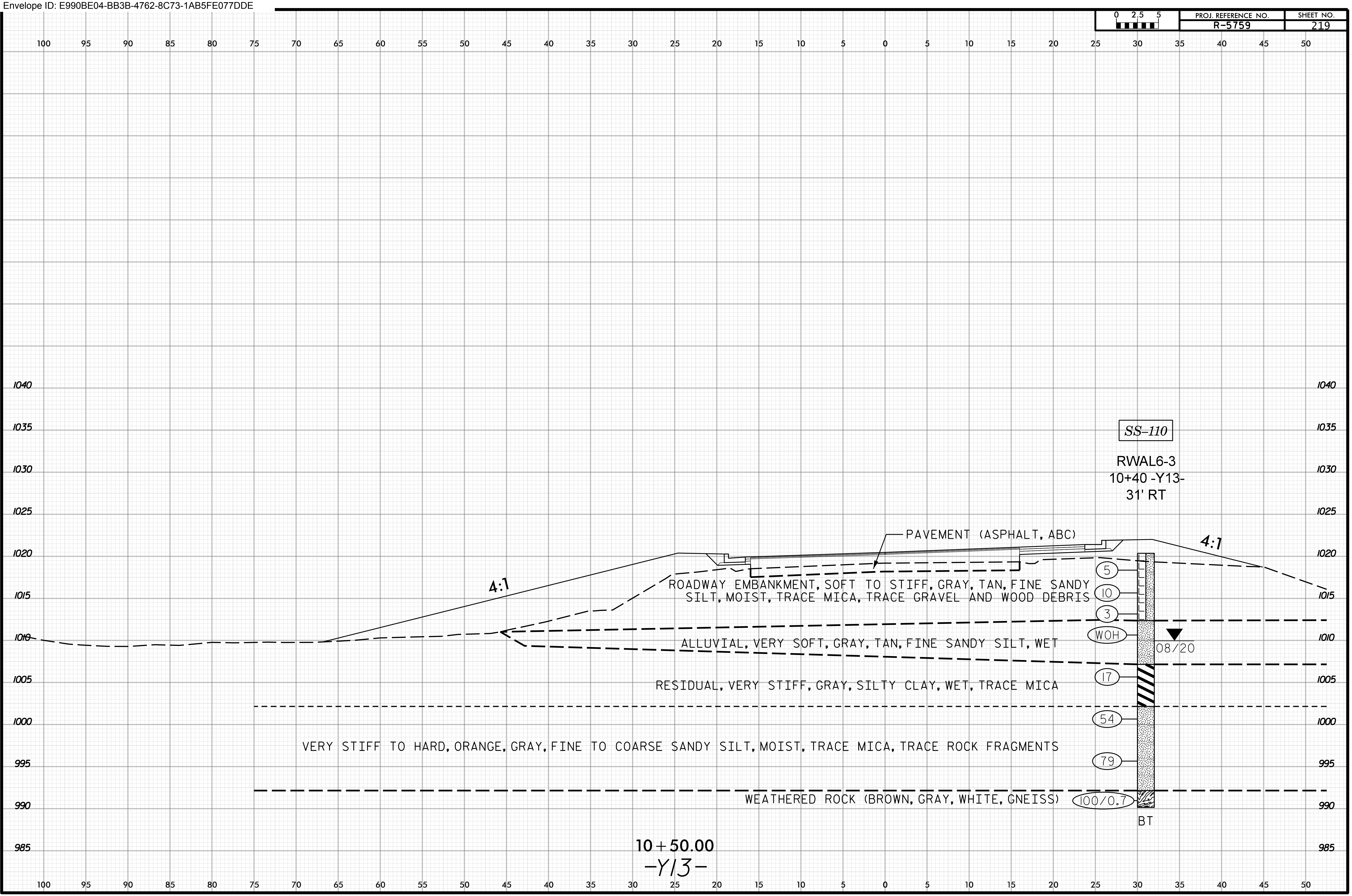
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100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
990
985
SS–110
RWAL6-3
10+40 -Y13-
31' RT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
ROADWAY EMBANKMENT, SOFT TO STIFF, GRAY, TAN, FINE SANDY SILT, MOIST, TRACE MICA, TRACE GRAVEL AND WOOD DEBRIS
5
10
3
WOH
08/20
ALLUVIAL, VERY SOFT, GRAY, TAN, FINE SANDY SILT, WET
17
RESIDUAL, VERY STIFF, GRAY, SILTY CLAY, WET, TRACE MICA
54
VERY STIFF TO HARD, ORANGE, GRAY, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS
79
WEATHERED ROCK (BROWN, GRAY, WHITE, GNEISS)
100/0.7
BT

10+50.00
-Y13-

14-AUG-2024 10:41
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mlhartman AT W0070050699

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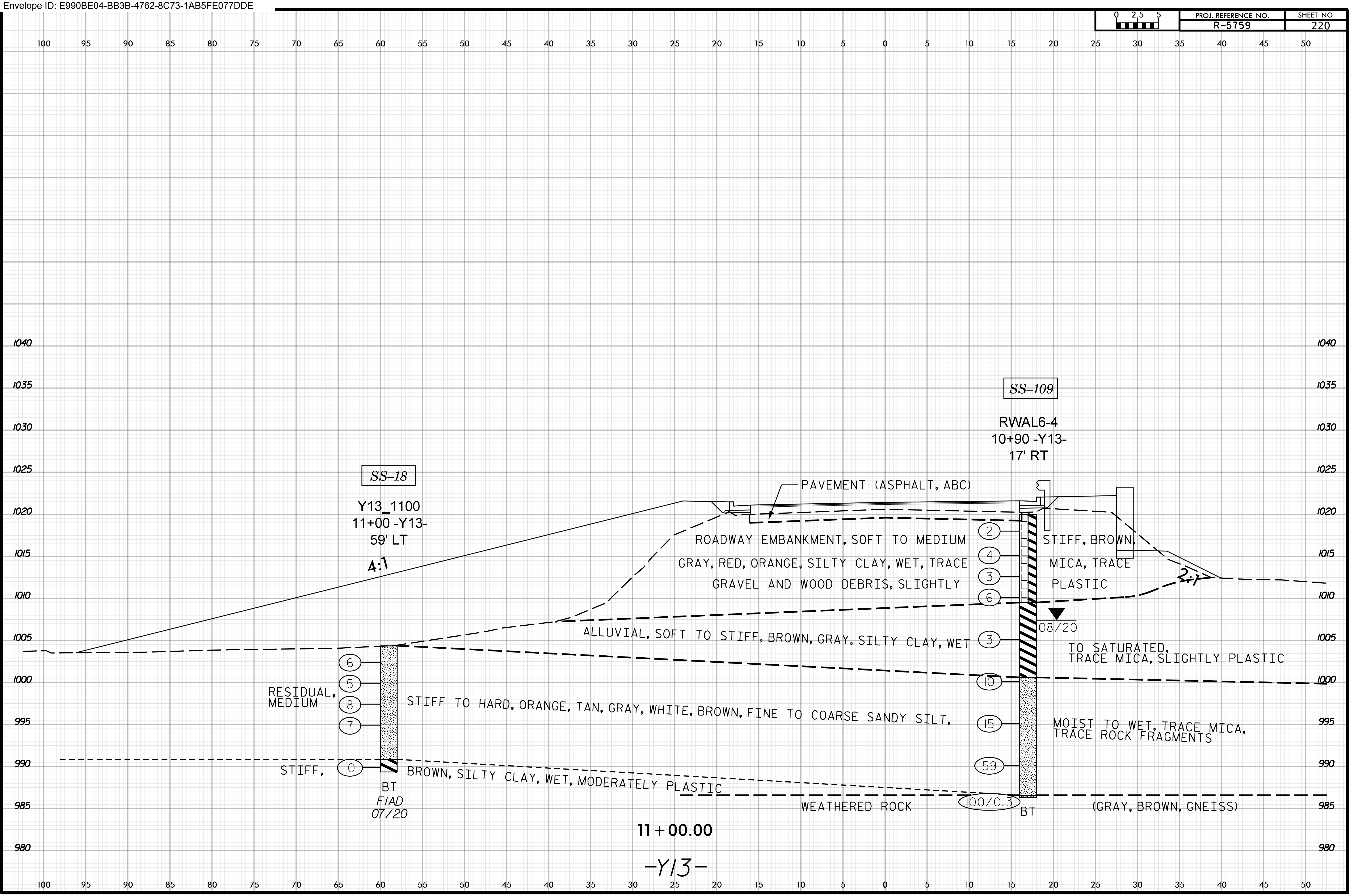
R-5759	220


0 2.5 5
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50
1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980
SS-18
Y13_1100
11+00 -Y13-
59' LT
4:1
SS-109
RWAL6-4
10+90 -Y13-
17' RT
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, SOFT TO MEDIUM STIFF, BROWN,
GRAY, RED, ORANGE, SILTY CLAY, WET, TRACE MICA, TRACE
GRAVEL AND WOOD DEBRIS, SLIGHTLY PLASTIC
2
4
3
6
2:1
08/20
ALLUVIAL, SOFT TO STIFF, BROWN, GRAY, SILTY CLAY, WET TO SATURATED,
TRACE MICA, SLIGHTLY PLASTIC
3
10
6
5
8
7
RESIDUAL, MEDIUM STIFF TO HARD, ORANGE, TAN, GRAY, WHITE, BROWN, FINE TO COARSE SANDY SILT, MOIST TO WET, TRACE MICA,
TRACE ROCK FRAGMENTS
15
59
STIFF, BROWN, SILTY CLAY, WET, MODERATELY PLASTIC
10
BT
FIAD
07/20
WEATHERED ROCK (GRAY, BROWN, GNEISS)
100/0.3
BT
11+00.00
-Y13-

Docusign Envelope ID: E990BE04-BB3B-4762-8C73-1AB5FE077DDE

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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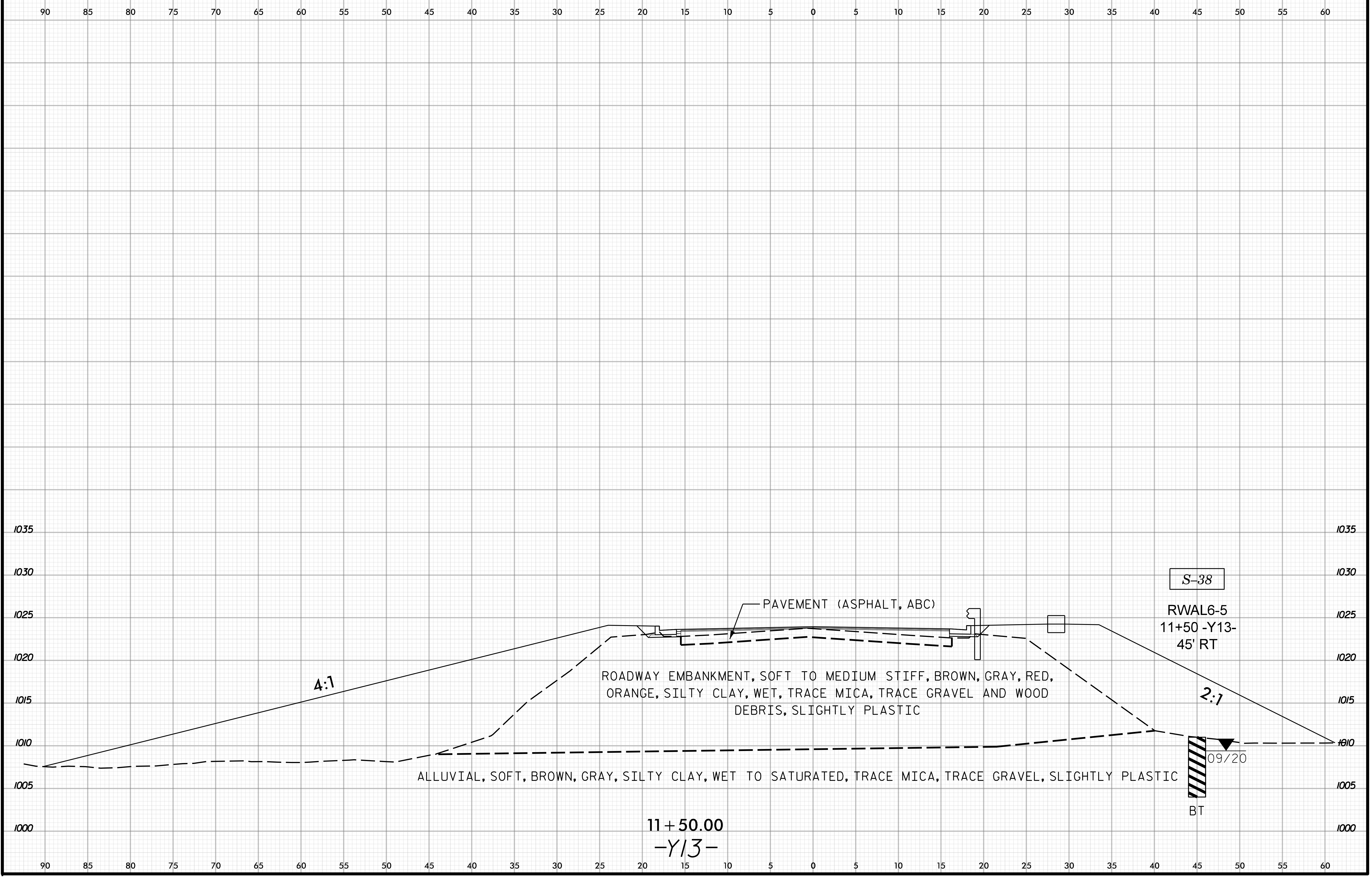
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60
1035
1030
1025
1020
1015
1010
1005
1000
PAVEMENT (ASPHALT, ABC)
4:1
2:1
S-38
RWAL6-5
11+50 -Y13-
45' RT
ROADWAY EMBANKMENT, SOFT TO MEDIUM STIFF, BROWN, GRAY, RED, ORANGE, SILTY CLAY, WET, TRACE MICA, TRACE GRAVEL AND WOOD DEBRIS, SLIGHTLY PLASTIC
ALLUVIAL, SOFT, BROWN, GRAY, SILTY CLAY, WET TO SATURATED, TRACE MICA, TRACE GRAVEL, SLIGHTLY PLASTIC
09/20
BT
11+50.00
-Y13-

14-AUG-2024 10:41
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mlhartman AT W0070050699

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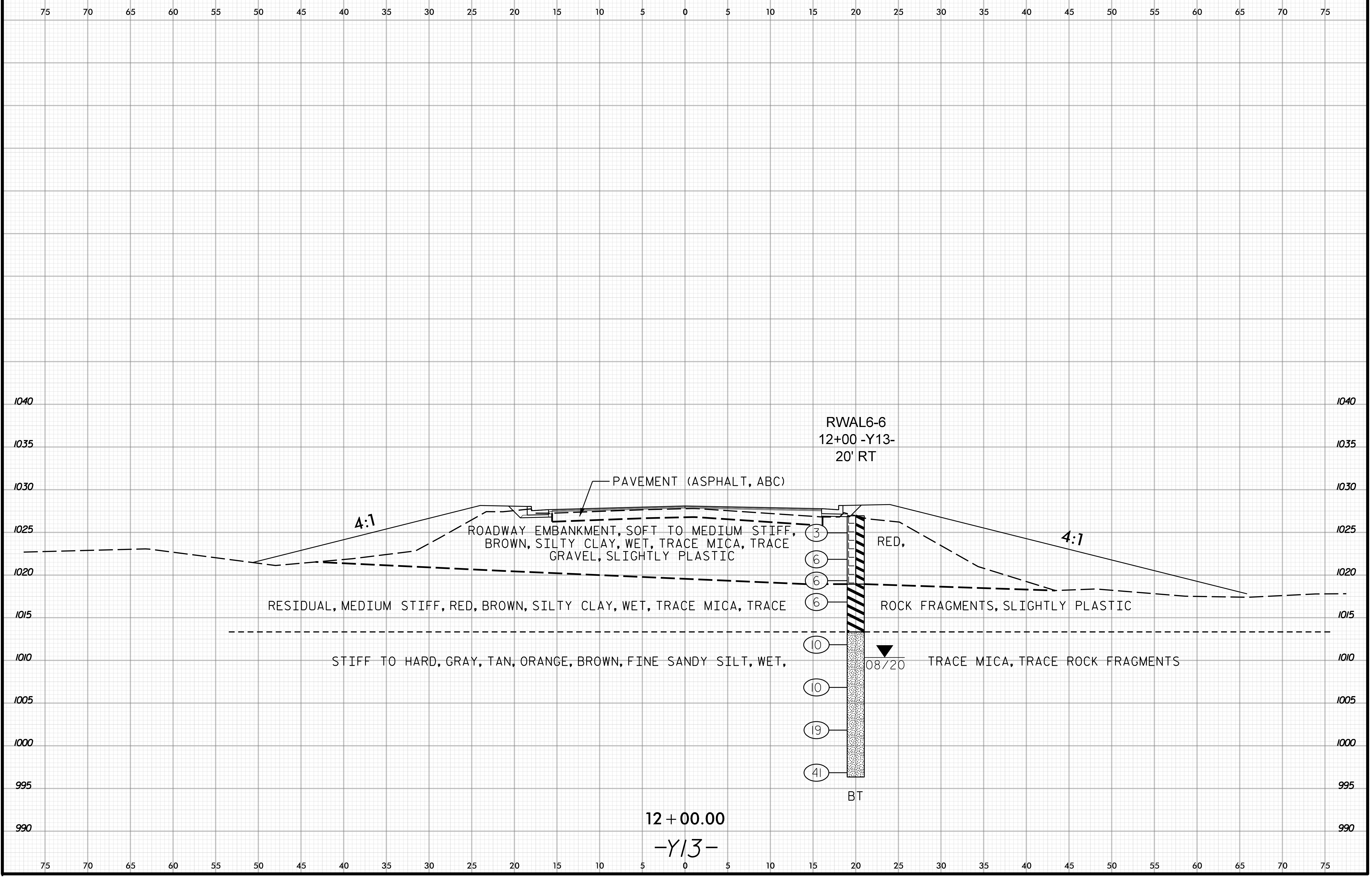
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
990
RWAL6-6
12+00 -Y13-
20' RT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
ROADWAY EMBANKMENT, SOFT TO MEDIUM STIFF, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE GRAVEL, SLIGHTLY PLASTIC
RED,
3
6
6
6
RESIDUAL, MEDIUM STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, TRACE
ROCK FRAGMENTS, SLIGHTLY PLASTIC
10
10
19
41
STIFF TO HARD, GRAY, TAN, ORANGE, BROWN, FINE SANDY SILT, WET,
08/20
TRACE MICA, TRACE ROCK FRAGMENTS
BT
12+00.00
-Y13-

6/23/16

14-AUG-2024 10:41
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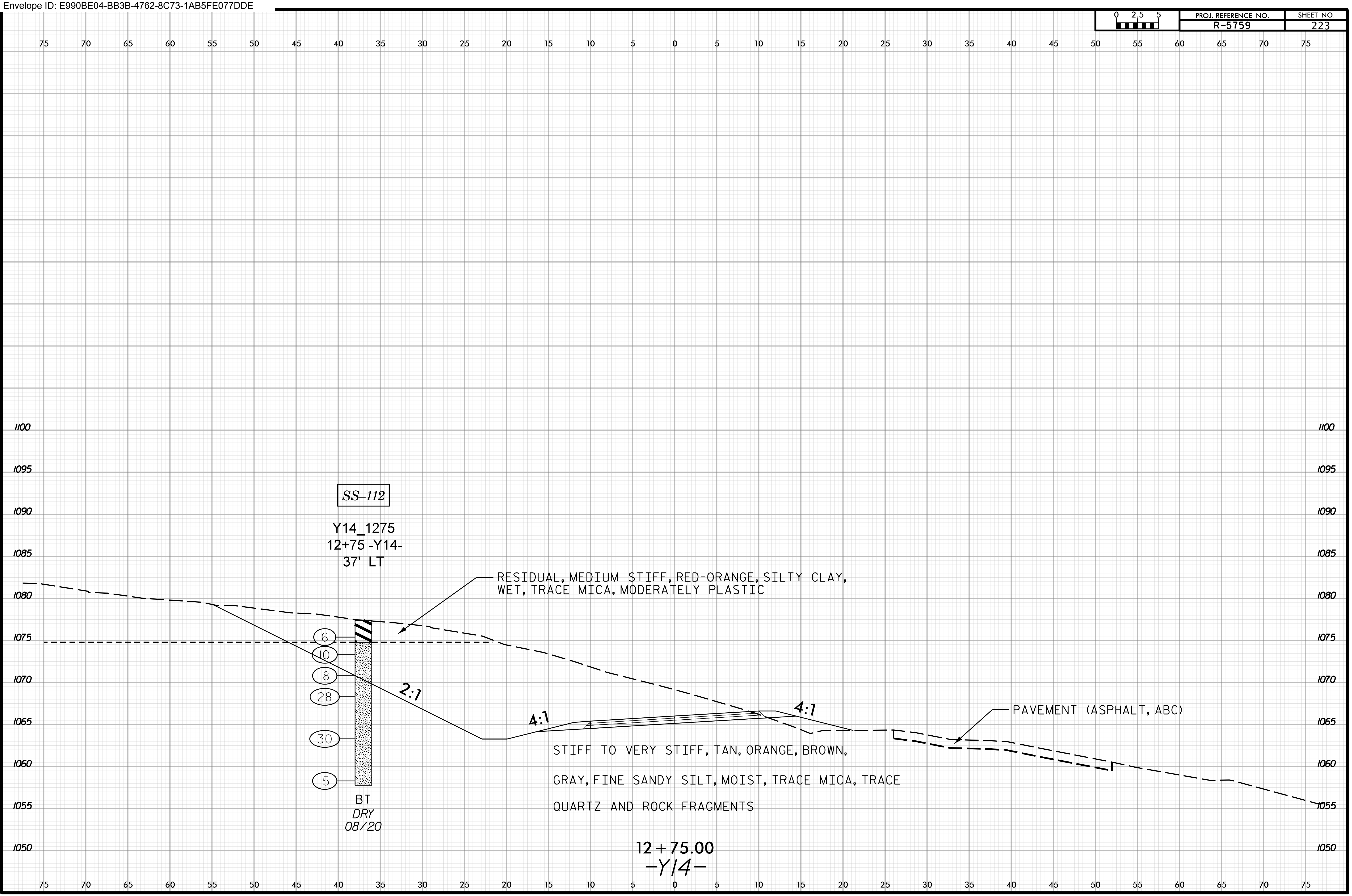
mlhartman AT W0070050699



SS-112

Y14_1275
12+75 -Y14-
37' LT

RESIDUAL, MEDIUM STIFF, RED-ORANGE, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC

PAVEMENT (ASPHALT, ABC)

STIFF TO VERY STIFF, TAN, ORANGE, BROWN, GRAY, FINE SANDY SILT, MOIST, TRACE MICA, TRACE QUARTZ AND ROCK FRAGMENTS

BT
DRY
08/20

12+75.00
-Y14-

28-AUG-2024 11:29
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mlhartman AT W00700050699

PROJ. REFERENCE NO.	SHEET NO.
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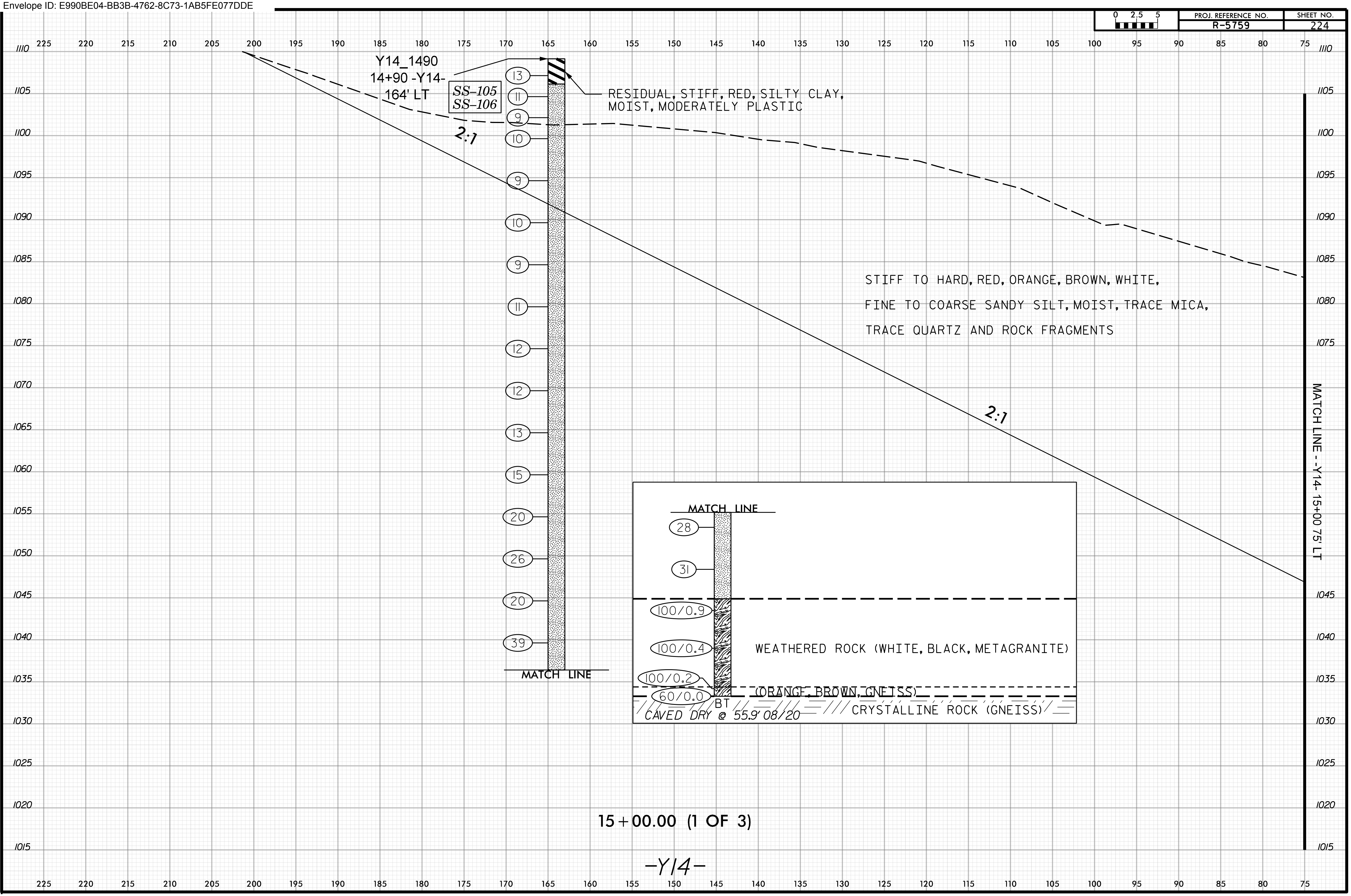
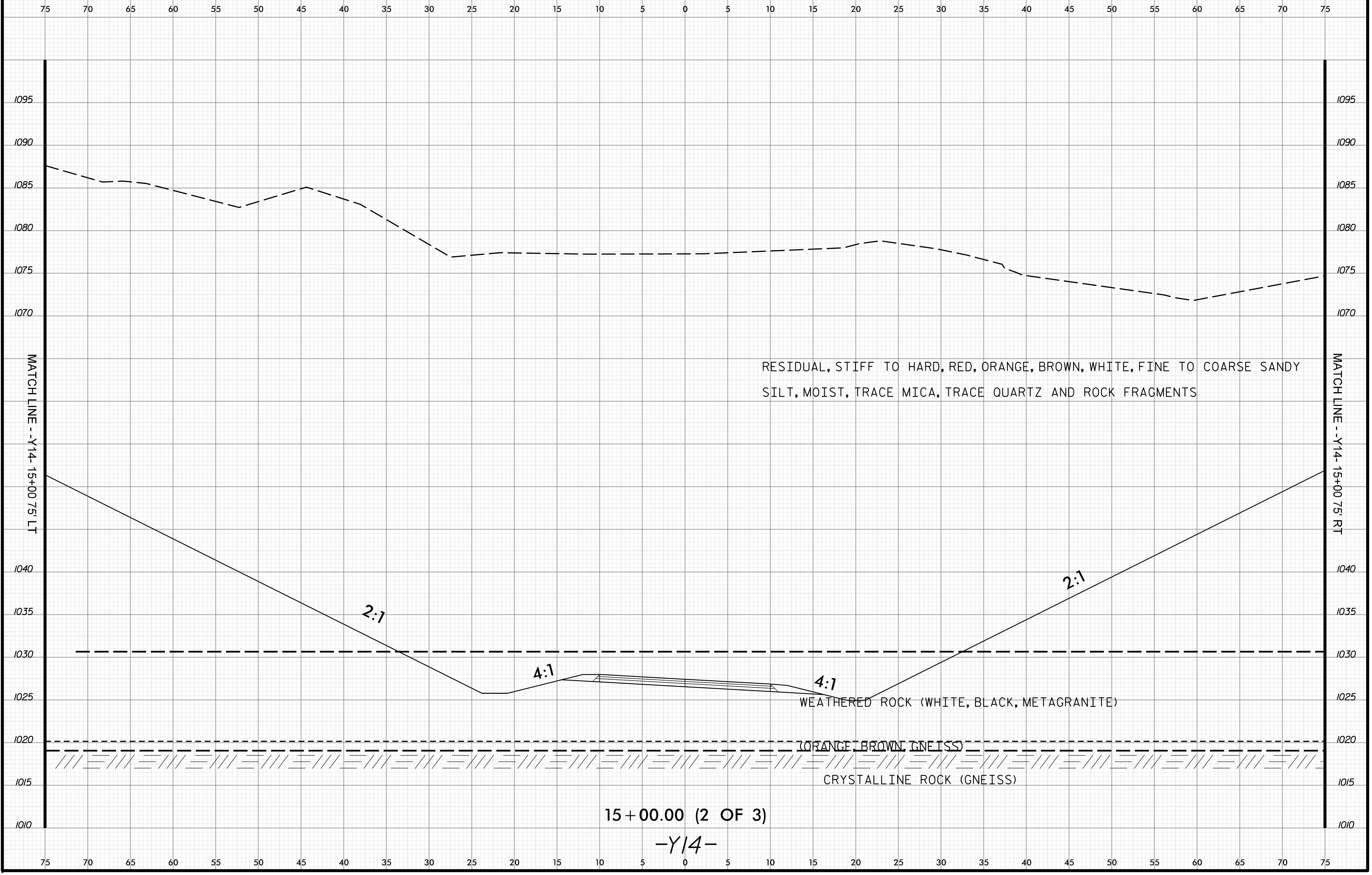


15+00.00 (1 OF 3)

-Y14-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	225


6/23/16
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1095
1090
1085
1080
1075
1070
1040
1035
1030
1025
1020
1015
1010
MATCH LINE -Y14- 15+00 75' LT
MATCH LINE -Y14- 15+00 75' RT
RESIDUAL, STIFF TO HARD, RED, ORANGE, BROWN, WHITE, FINE TO COARSE SANDY SILT, MOIST, TRACE MICA, TRACE QUARTZ AND ROCK FRAGMENTS
2:1
2:1
4:1
4:1
WEATHERED ROCK (WHITE, BLACK, METAGRANITE)
(ORANGE, BROWN, GNEISS)
CRYSTALLINE ROCK (GNEISS)

15+00.00 (2 OF 3)

-Y14-

28-AUG-2024 11:29
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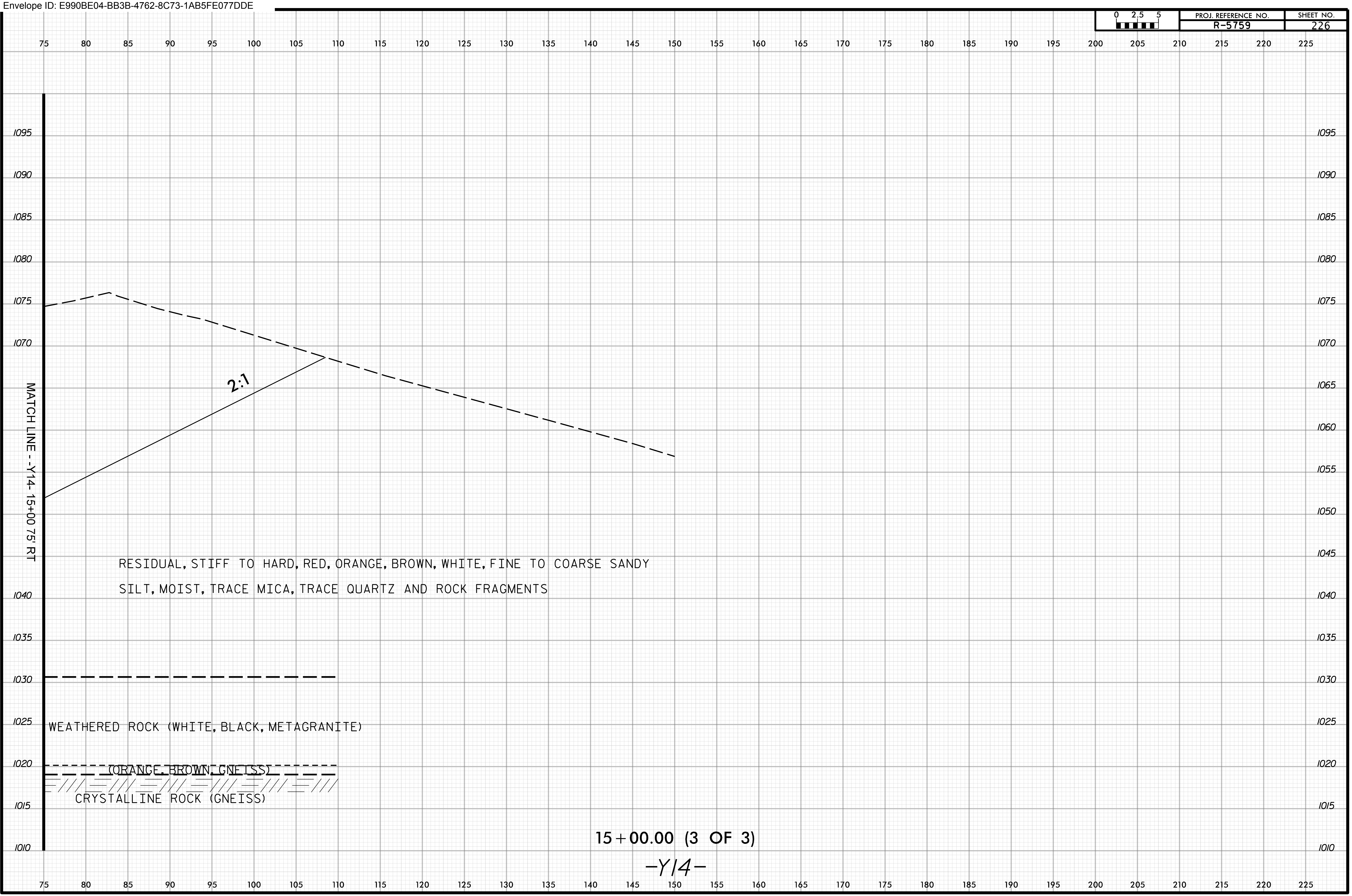
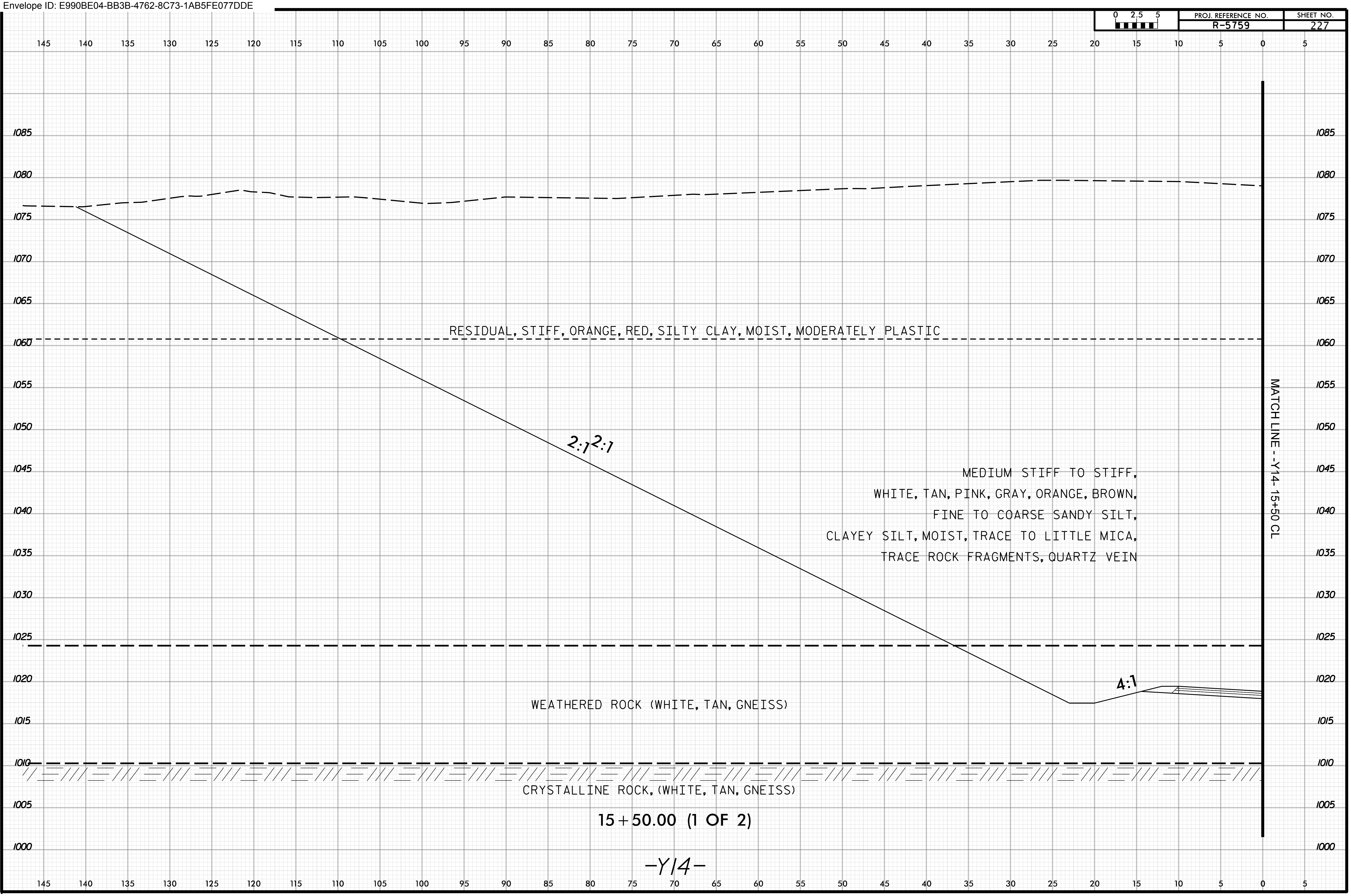
mlhartman AT W007005069



15+00.00 (3 OF 3)

-Y14-


0 2.5 5
145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1085
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
2:1 2:1
MEDIUM STIFF TO STIFF,
WHITE, TAN, PINK, GRAY, ORANGE, BROWN,
FINE TO COARSE SANDY SILT,
CLAYEY SILT, MOIST, TRACE TO LITTLE MICA,
TRACE ROCK FRAGMENTS, QUARTZ VEIN
MATCH LINE --Y14- 15+50 CL
4:1
WEATHERED ROCK (WHITE, TAN, GNEISS)
CRYSTALLINE ROCK, (WHITE, TAN, GNEISS)
6/23/16

15+50.00 (1 OF 2)

-Y14-

28-AUG-2024 11:29
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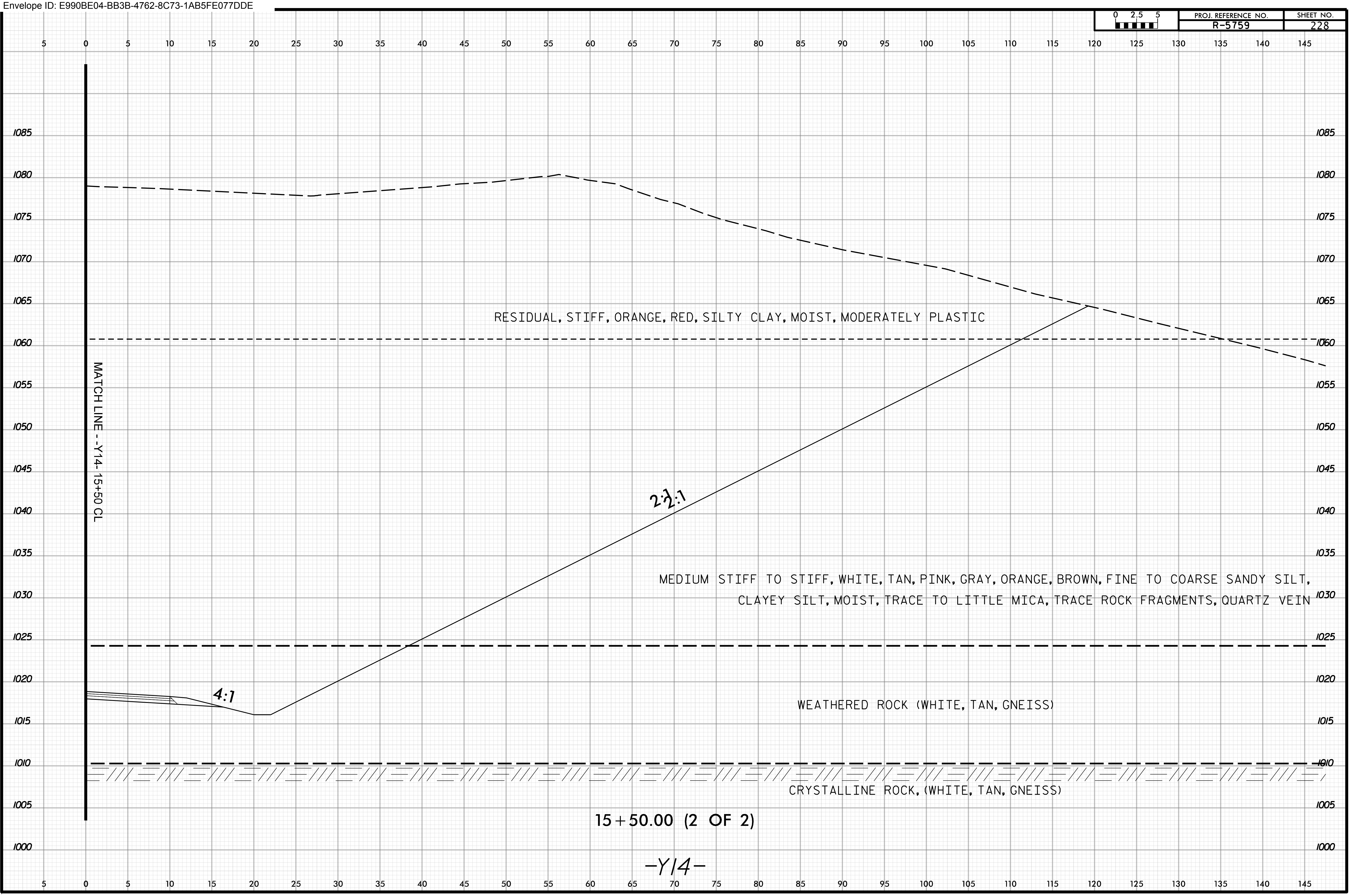
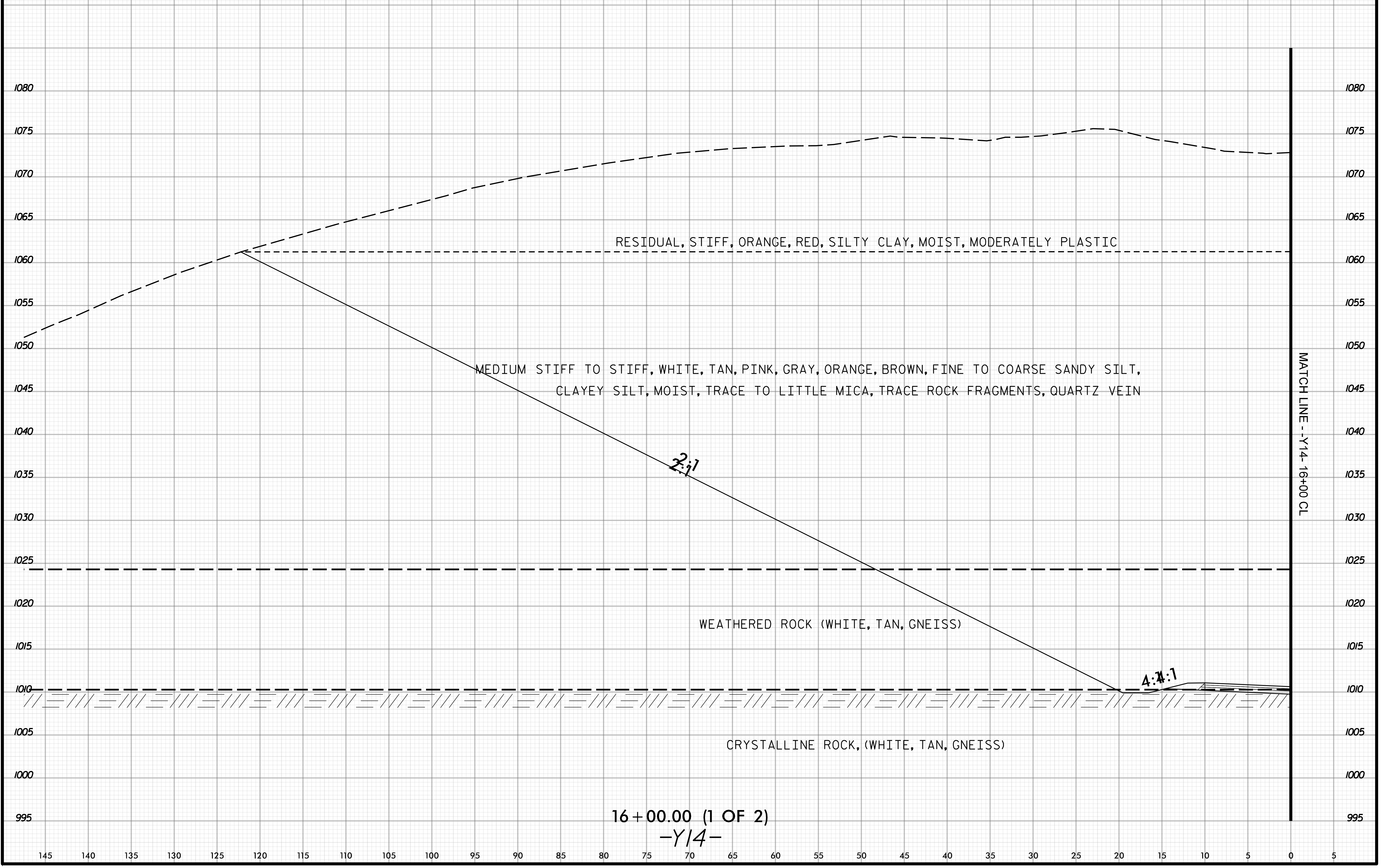

0 2.5 5
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
MATCH LINE --Y14- 15+50 CL
2:1
2:1
MEDIUM STIFF TO STIFF, WHITE, TAN, PINK, GRAY, ORANGE, BROWN, FINE TO COARSE SANDY SILT,
CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, TRACE ROCK FRAGMENTS, QUARTZ VEIN
4:1
WEATHERED ROCK (WHITE, TAN, GNEISS)
CRYSTALLINE ROCK, (WHITE, TAN, GNEISS)
1085
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145

15+50.00 (2 OF 2)

-Y14-


0 2.5 5
145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1080
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
MEDIUM STIFF TO STIFF, WHITE, TAN, PINK, GRAY, ORANGE, BROWN, FINE TO COARSE SANDY SILT,
CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, TRACE ROCK FRAGMENTS, QUARTZ VEIN
2:1
WEATHERED ROCK (WHITE, TAN, GNEISS)
4:1
CRYSTALLINE ROCK, (WHITE, TAN, GNEISS)
MATCH LINE -Y14- 16+00 CL

16+00.00 (1 OF 2)
-Y14-

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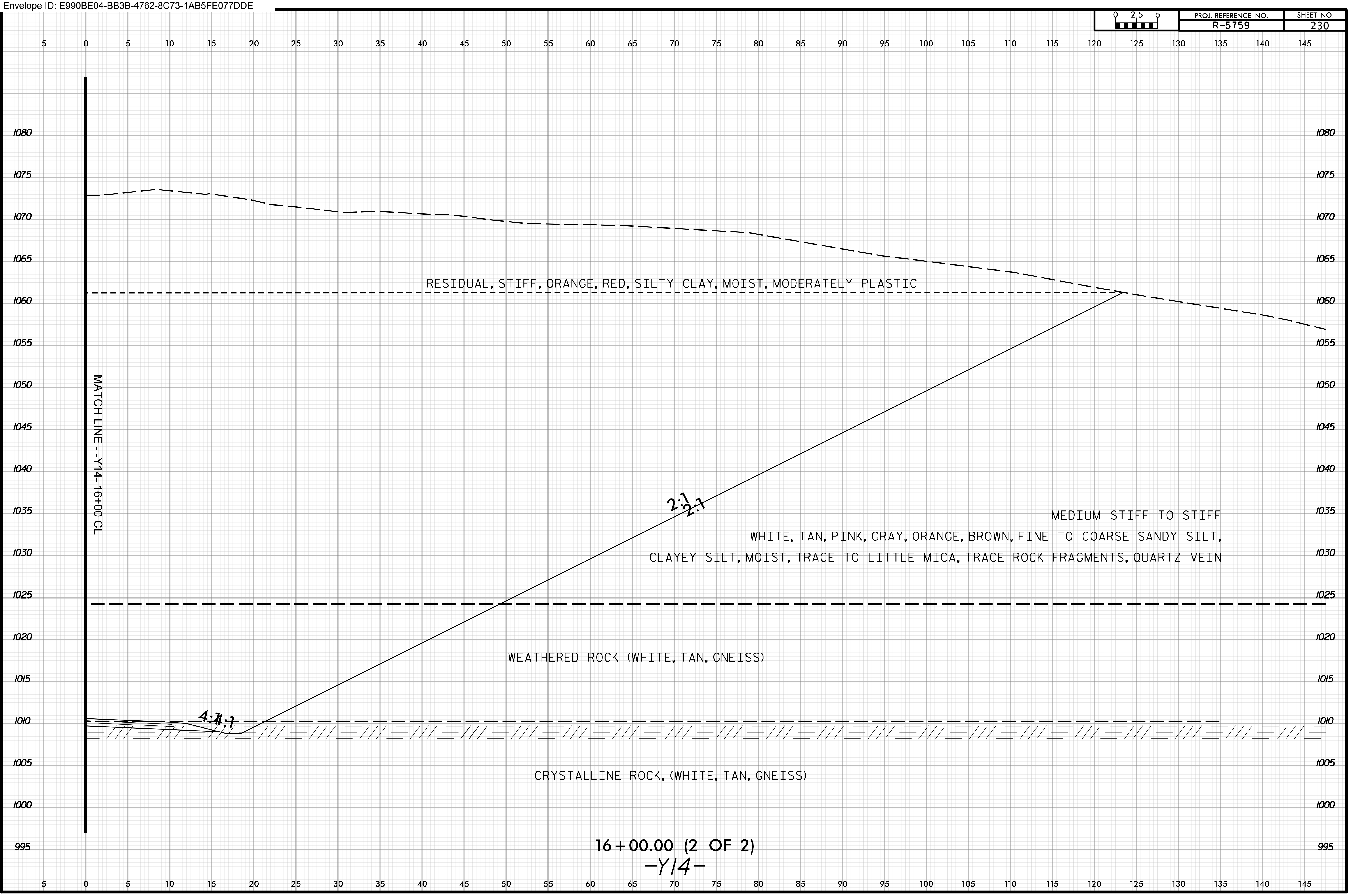
PROJ. REFERENCE NO.	SHEET NO.
R-5759	230


0 2.5 5
6/23/16
MATCH LINE - -Y14- 16+00 CL
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
2:1
2:1
MEDIUM STIFF TO STIFF
WHITE, TAN, PINK, GRAY, ORANGE, BROWN, FINE TO COARSE SANDY SILT,
CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, TRACE ROCK FRAGMENTS, QUARTZ VEIN
WEATHERED ROCK (WHITE, TAN, GNEISS)
4:1
4:1
CRYSTALLINE ROCK, (WHITE, TAN, GNEISS)
5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145
1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995

16+00.00 (2 OF 2)

-Y14-

28-AUG-2024 11:29
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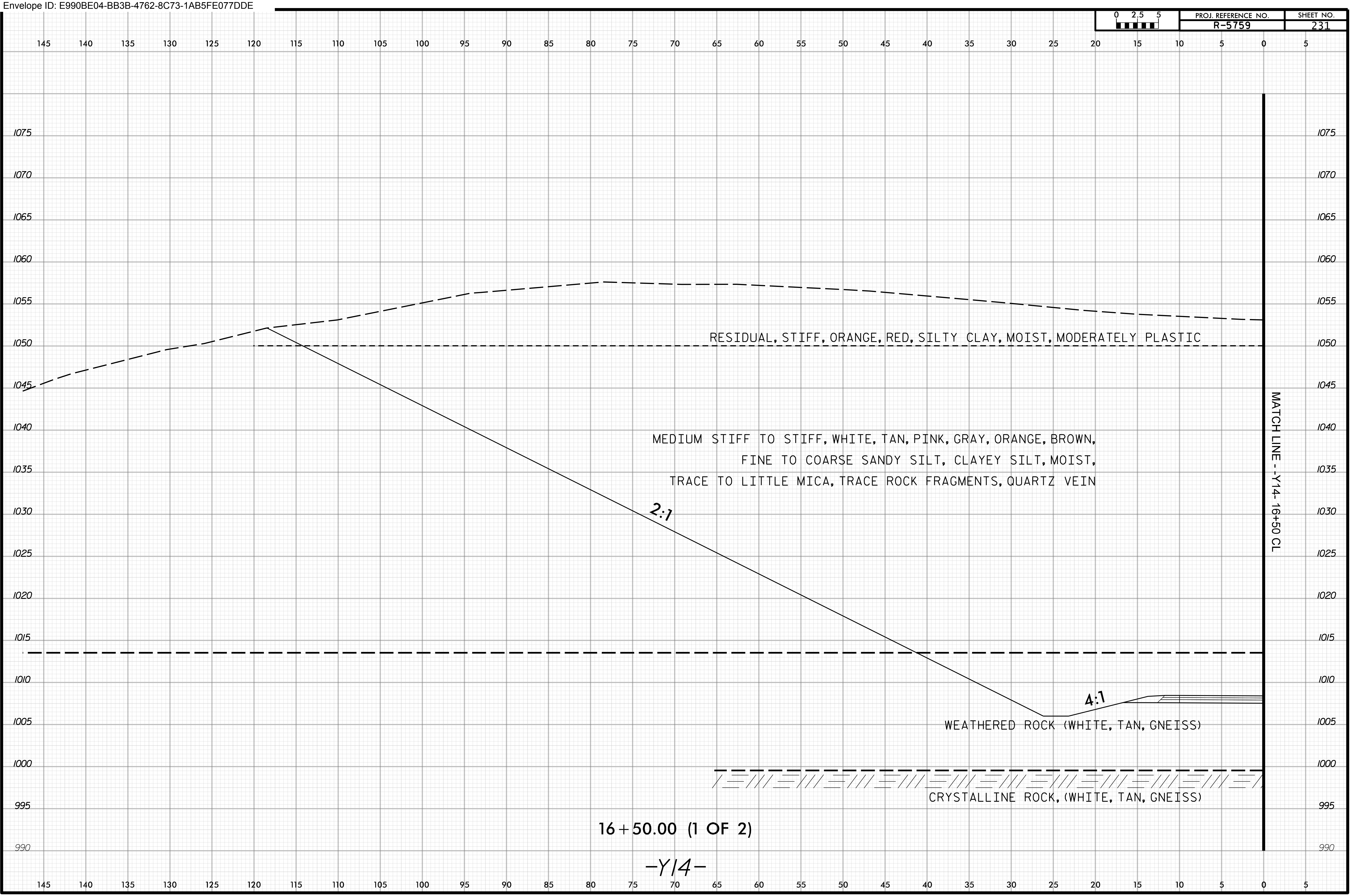
0 2.5 5
145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1075
1070
1065
1060
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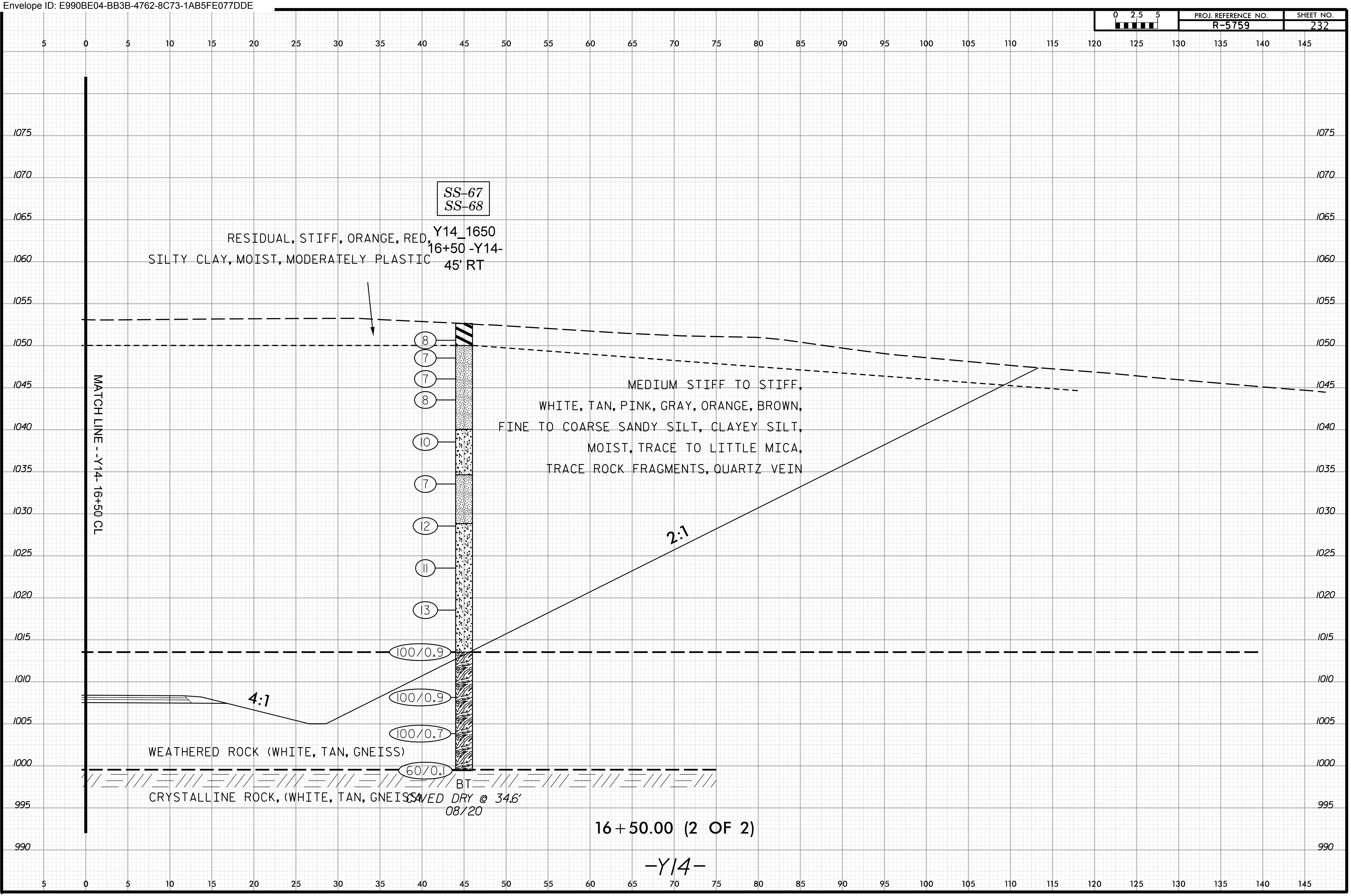
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
990
RESIDUAL, STIFF, ORANGE, RED, SILTY CLAY, MOIST, MODERATELY PLASTIC
MEDIUM STIFF TO STIFF, WHITE, TAN, PINK, GRAY, ORANGE, BROWN,
FINE TO COARSE SANDY SILT, CLAYEY SILT, MOIST,
TRACE TO LITTLE MICA, TRACE ROCK FRAGMENTS, QUARTZ VEIN
2:1
4:1
WEATHERED ROCK (WHITE, TAN, GNEISS)
CRYSTALLINE ROCK, (WHITE, TAN, GNEISS)
MATCH LINE -Y14- 16+50 CL

16+50.00 (1 OF 2)

-Y14-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	232


0 2.5 5
5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145
1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000
995
990
SS-67
SS-68
Y14_1650
16+50 -Y14-
45' RT
RESIDUAL, STIFF, ORANGE, RED,
SILTY CLAY, MOIST, MODERATELY PLASTIC
MATCH LINE - -Y14- 16+50 CL
8
7
7
8
10
7
12
11
13
100/0.9
100/0.9
100/0.7
60/0.1
BT
MEDIUM STIFF TO STIFF,
WHITE, TAN, PINK, GRAY, ORANGE, BROWN,
FINE TO COARSE SANDY SILT, CLAYEY SILT,
MOIST, TRACE TO LITTLE MICA,
TRACE ROCK FRAGMENTS, QUARTZ VEIN
2:1
4:1
WEATHERED ROCK (WHITE, TAN, GNEISS)
CRYSTALLINE ROCK, (WHITE, TAN, GNEISS)
CAVED DRY @ 34.6'
08/20

16+50.00 (2 OF 2)

-Y14-

6/23/16

28-AUG-2024 11:29
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mlhartman AT W007005069

6/23/16

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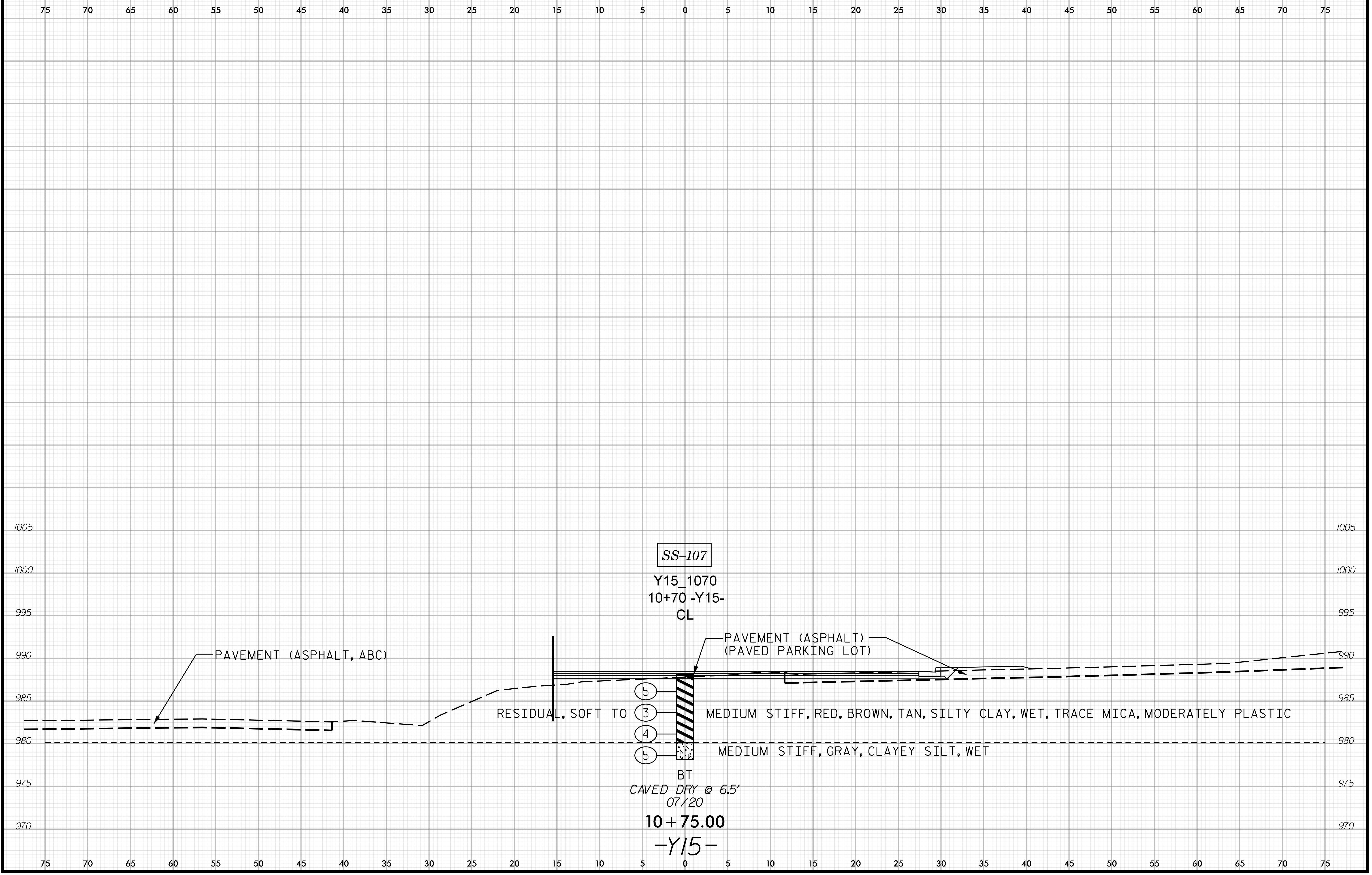

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PROJ. REFERENCE NO.	SHEET NO.
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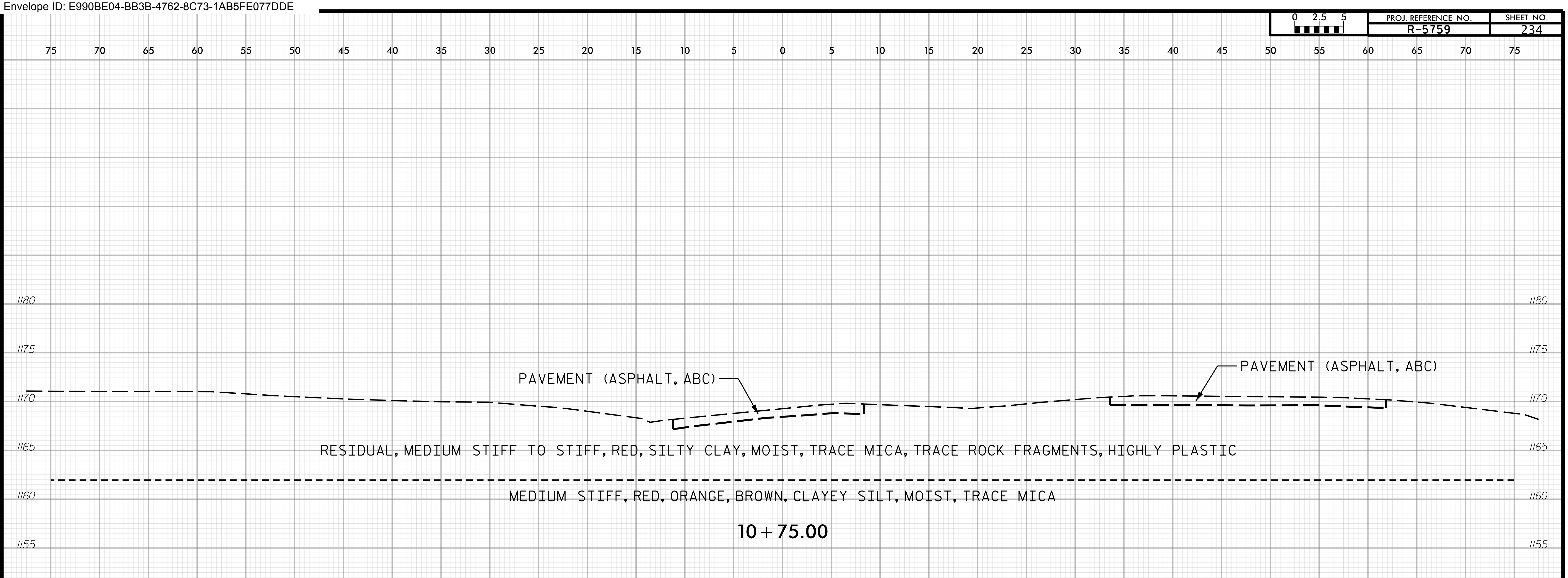

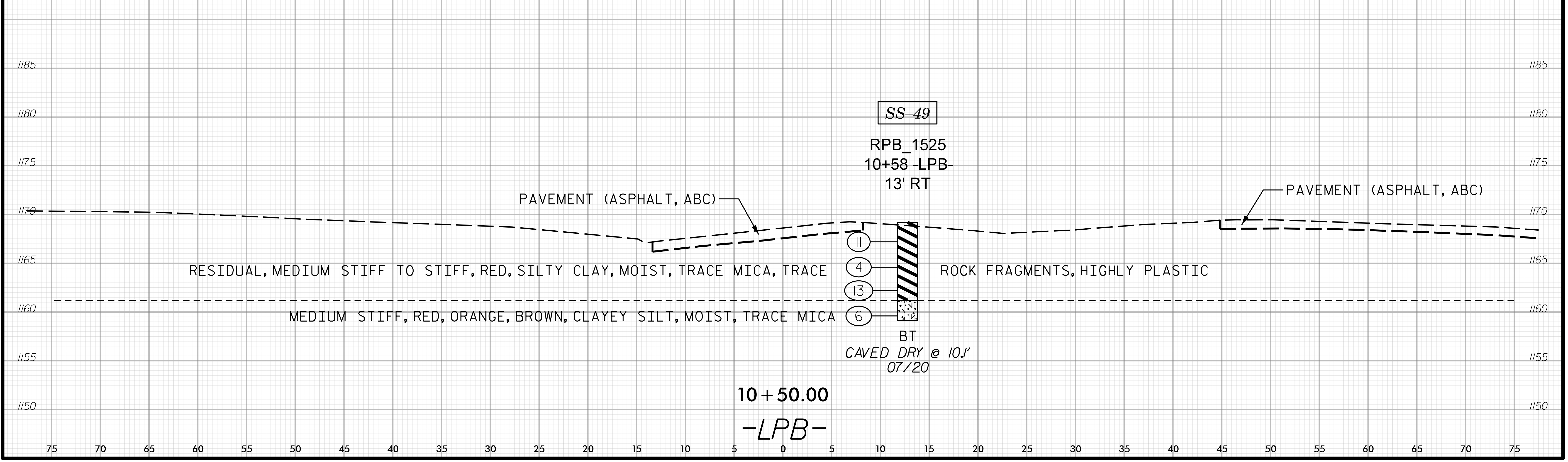

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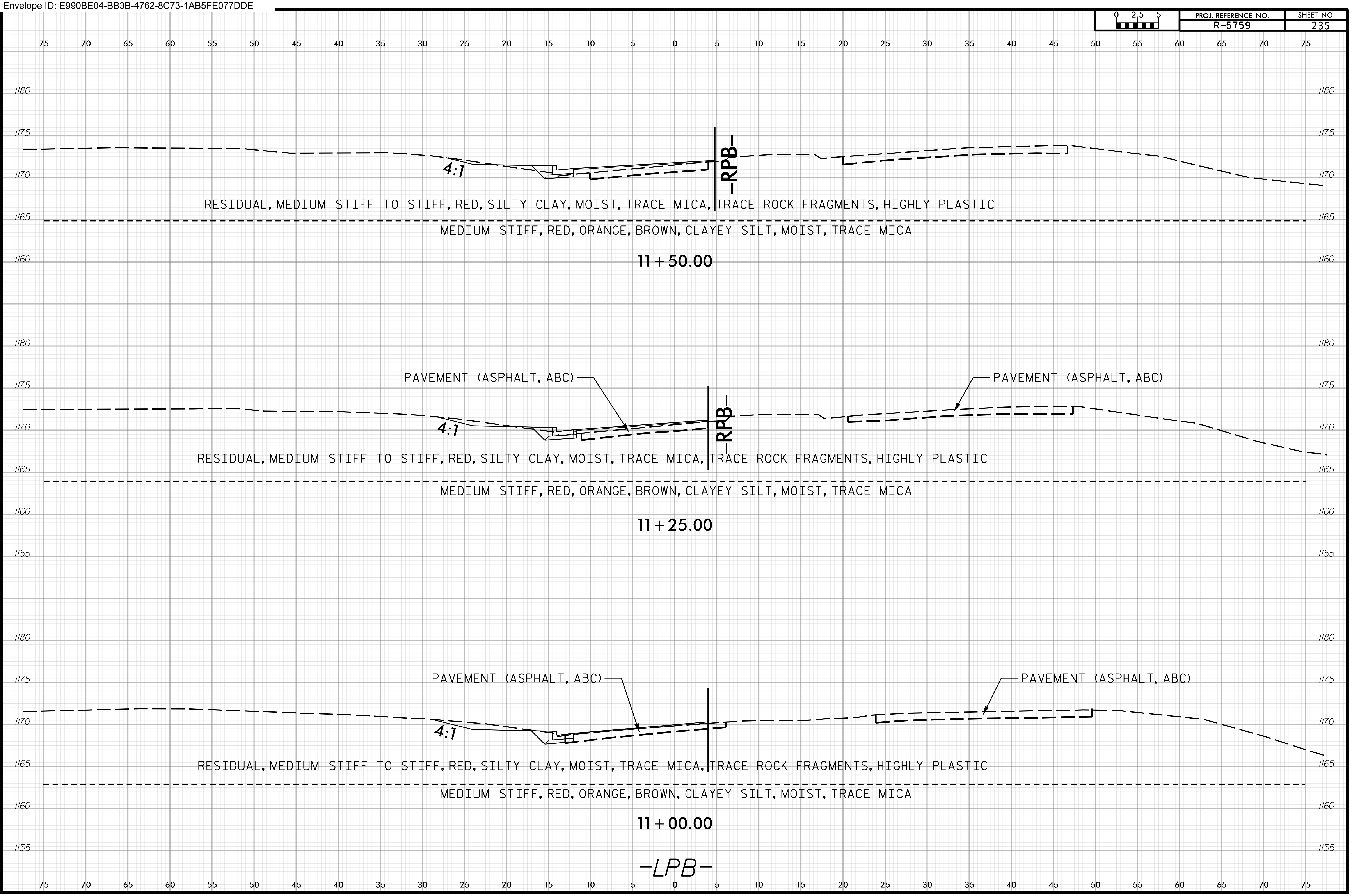
R-5759	235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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1180
1175
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4:1
-RPB-
RESIDUAL, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF, RED, ORANGE, BROWN, CLAYEY SILT, MOIST, TRACE MICA
11+50.00
1180
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PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT, ABC)
4:1
-RPB-
RESIDUAL, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF, RED, ORANGE, BROWN, CLAYEY SILT, MOIST, TRACE MICA
11+25.00
1180
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PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF, RED, ORANGE, BROWN, CLAYEY SILT, MOIST, TRACE MICA
11+00.00
-LPB-
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6/23/16

28-AUG-2024 11:49
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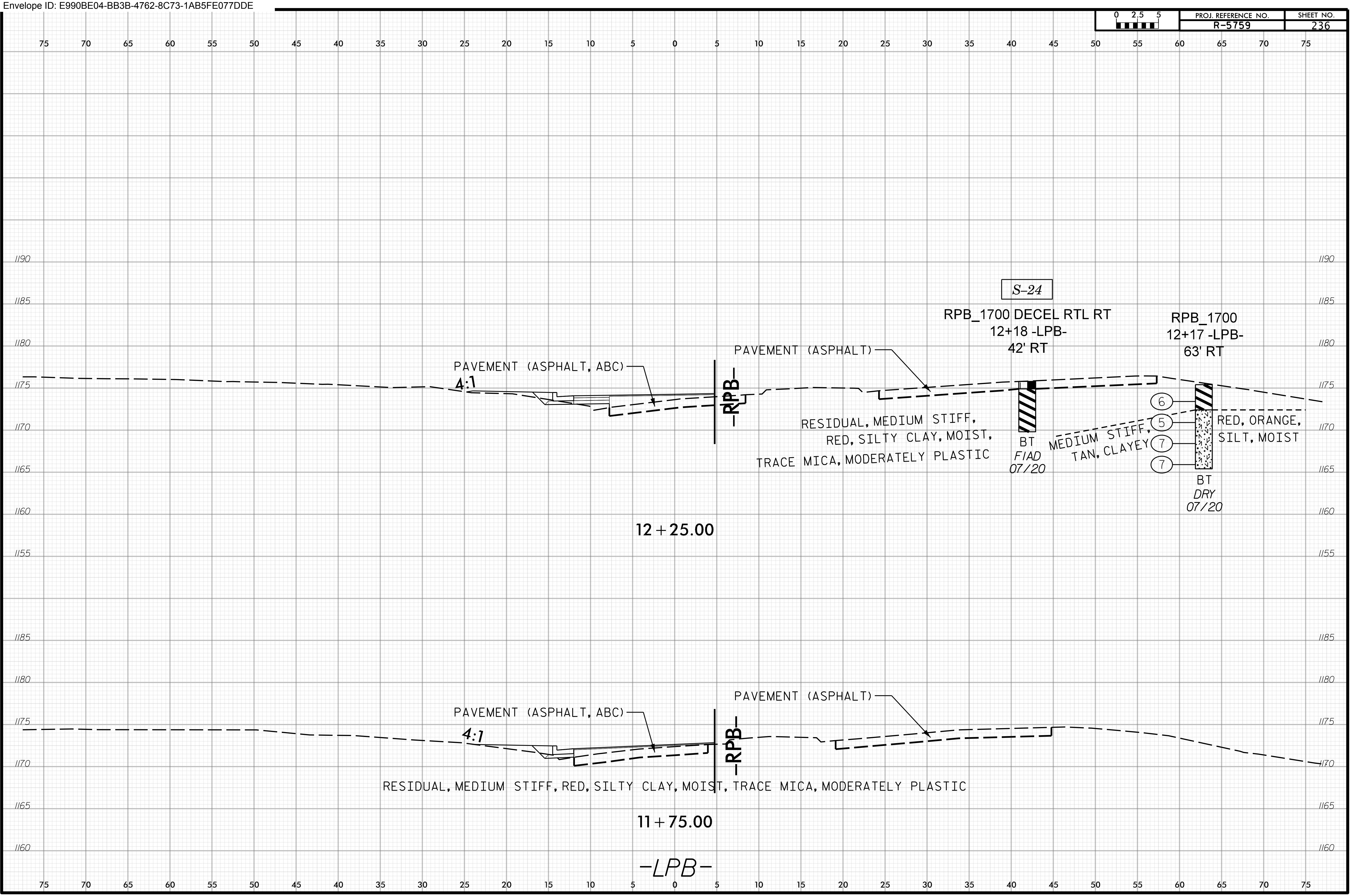

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S-24
RPB_1700 DECEL RTL RT
12+18 -LPB-
42' RT
RPB_1700
12+17 -LPB-
63' RT
PAVEMENT (ASPHALT, ABC)
4:1
PAVEMENT (ASPHALT)
-RPB-
RESIDUAL, MEDIUM STIFF,
RED, SILTY CLAY, MOIST,
TRACE MICA, MODERATELY PLASTIC
BT
FIAD
07/20
MEDIUM STIFF,
TAN, CLAYEY
6
5
7
7
RED, ORANGE,
SILT, MOIST
BT
DRY
07/20
12+25.00
RESIDUAL, MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, MODERATELY PLASTIC
11+75.00
-LPB-

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6/23/16

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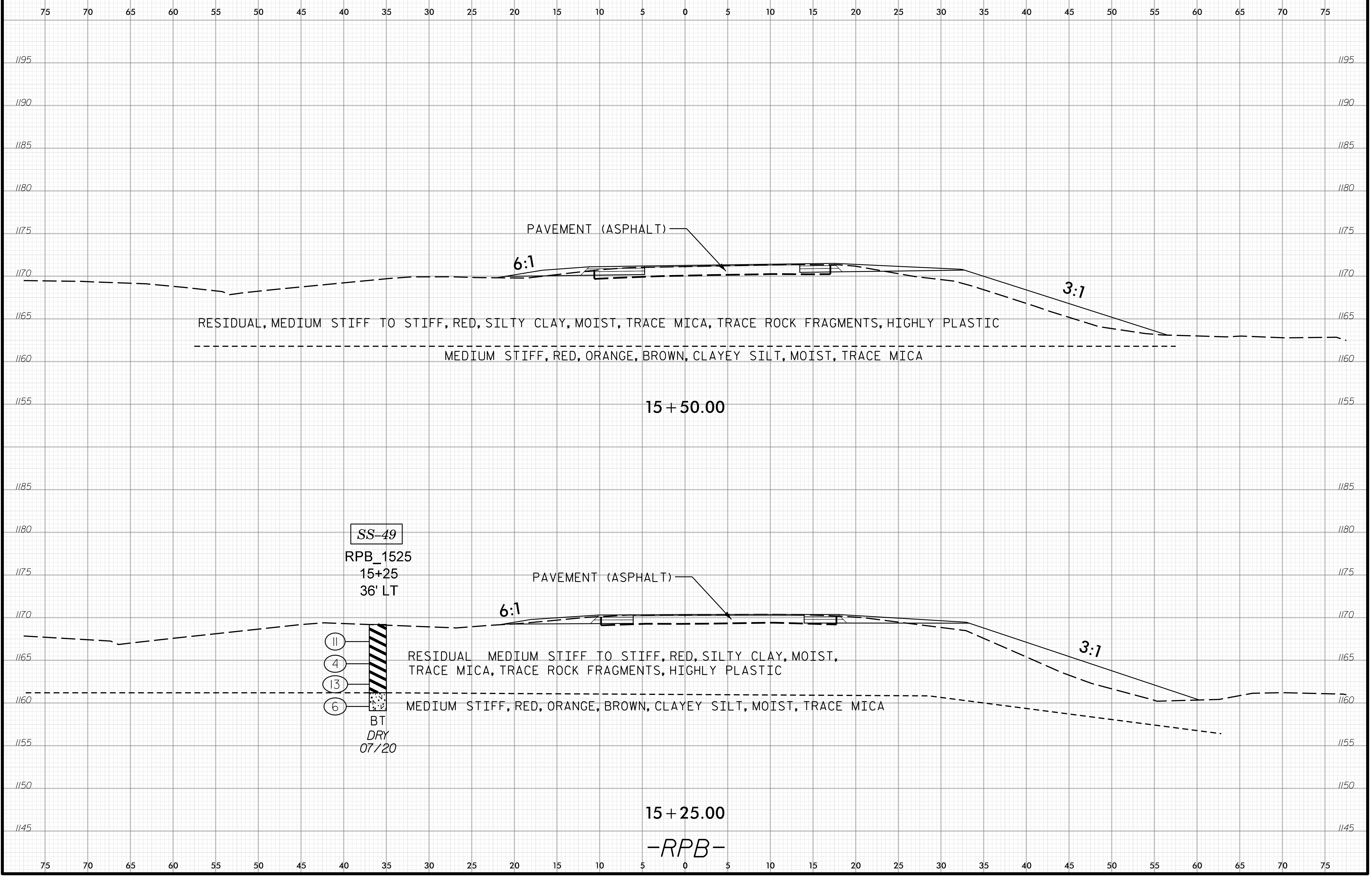

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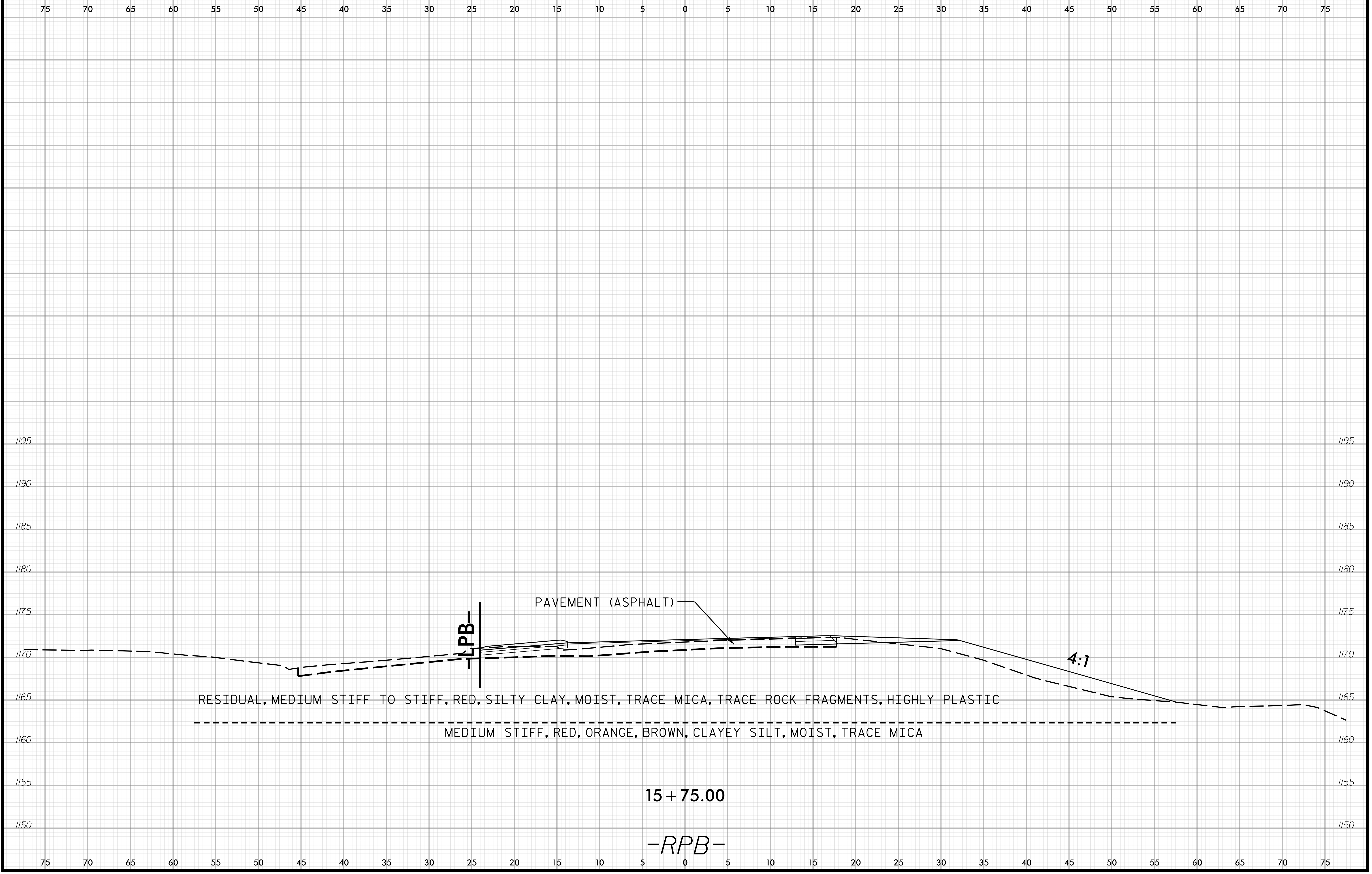
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1150
PAVEMENT (ASPHALT)
-LPB-
4:1
RESIDUAL, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF, RED, ORANGE, BROWN, CLAYEY SILT, MOIST, TRACE MICA

15+75.00

-RPB-

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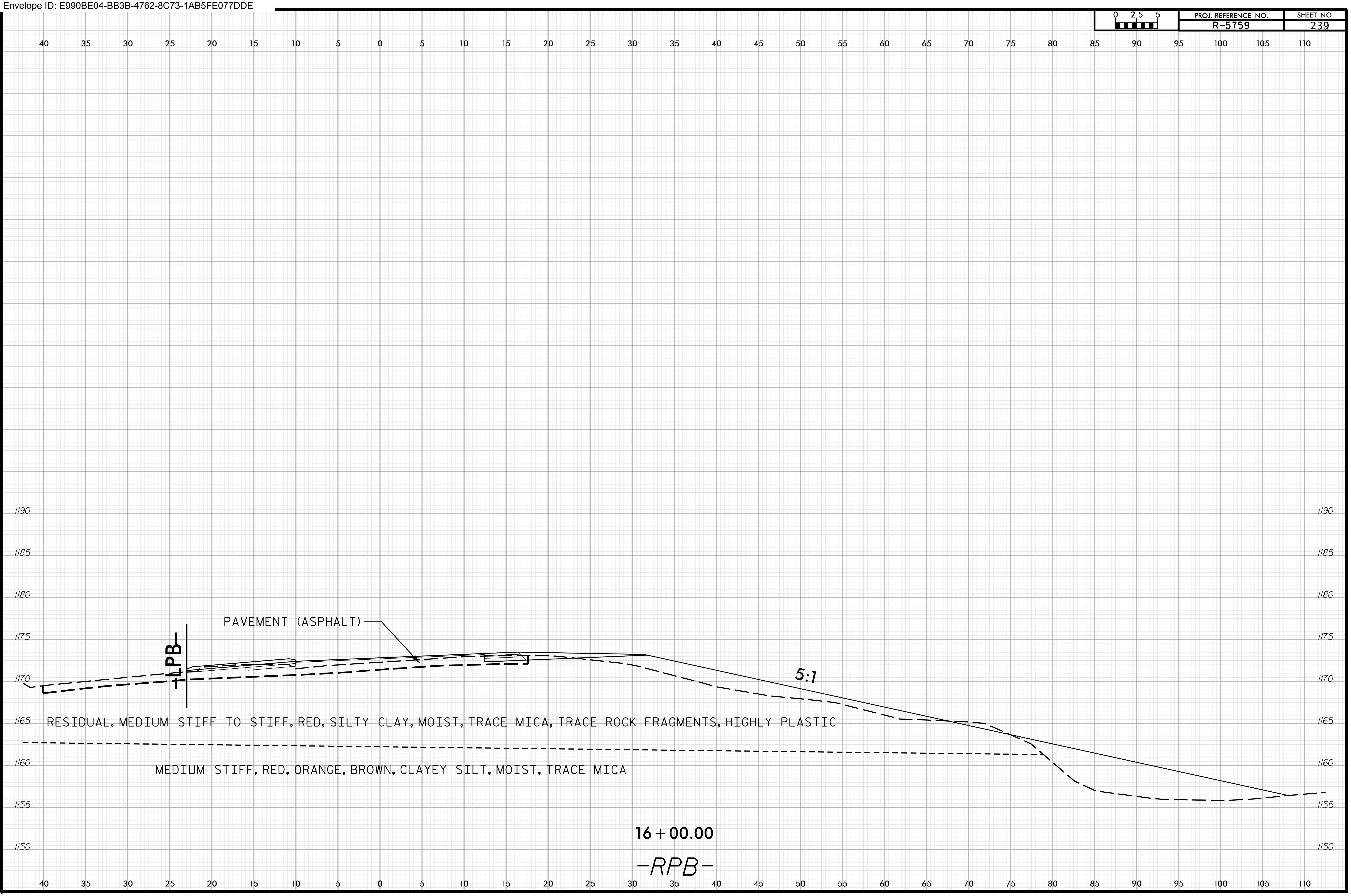
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1155
1150
-LPB-
PAVEMENT (ASPHALT)
5:1
RESIDUAL, MEDIUM STIFF TO STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS, HIGHLY PLASTIC
MEDIUM STIFF, RED, ORANGE, BROWN, CLAYEY SILT, MOIST, TRACE MICA
16+00.00
-RPB-

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6/23/16

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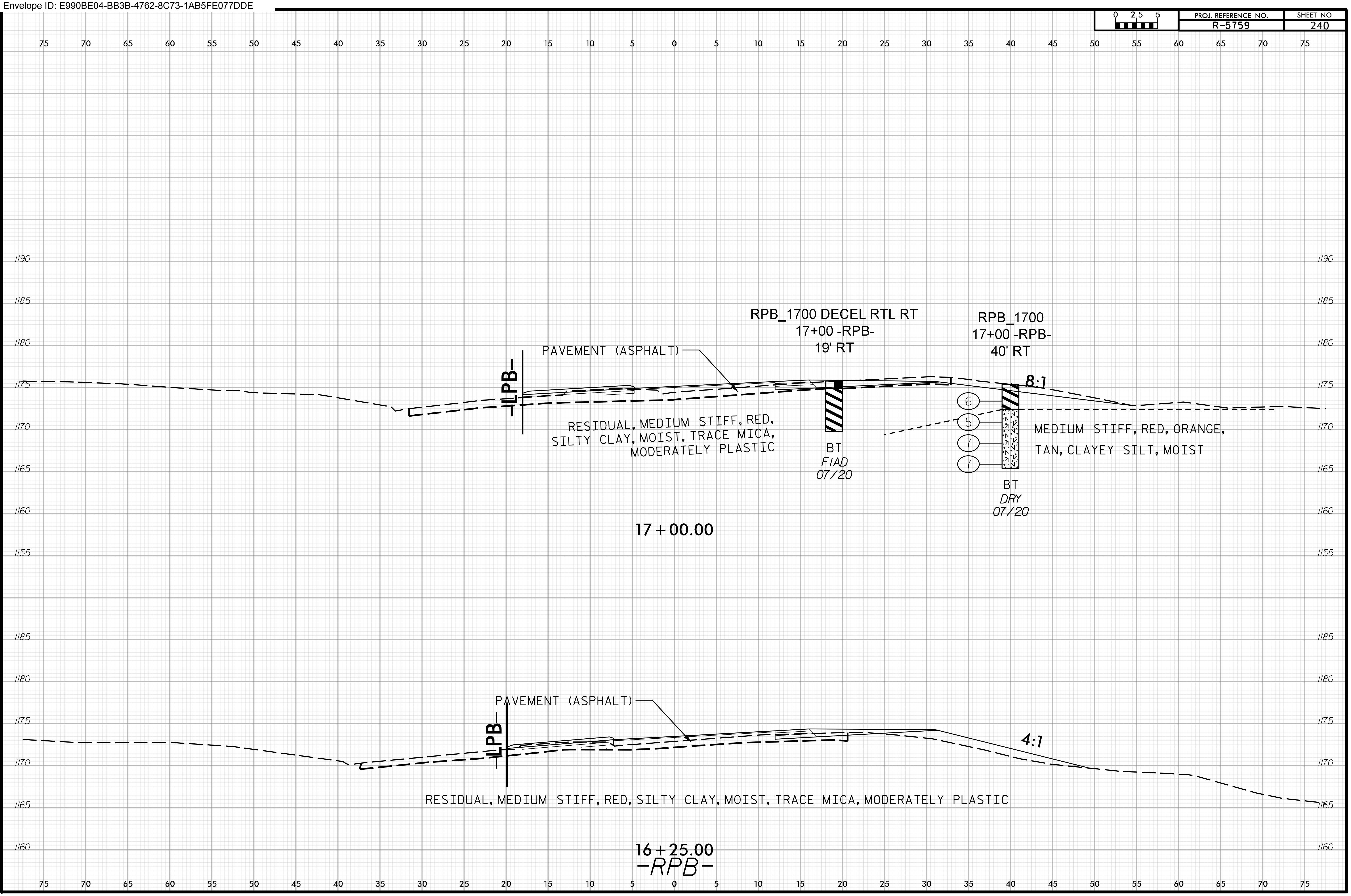
R-5759	240



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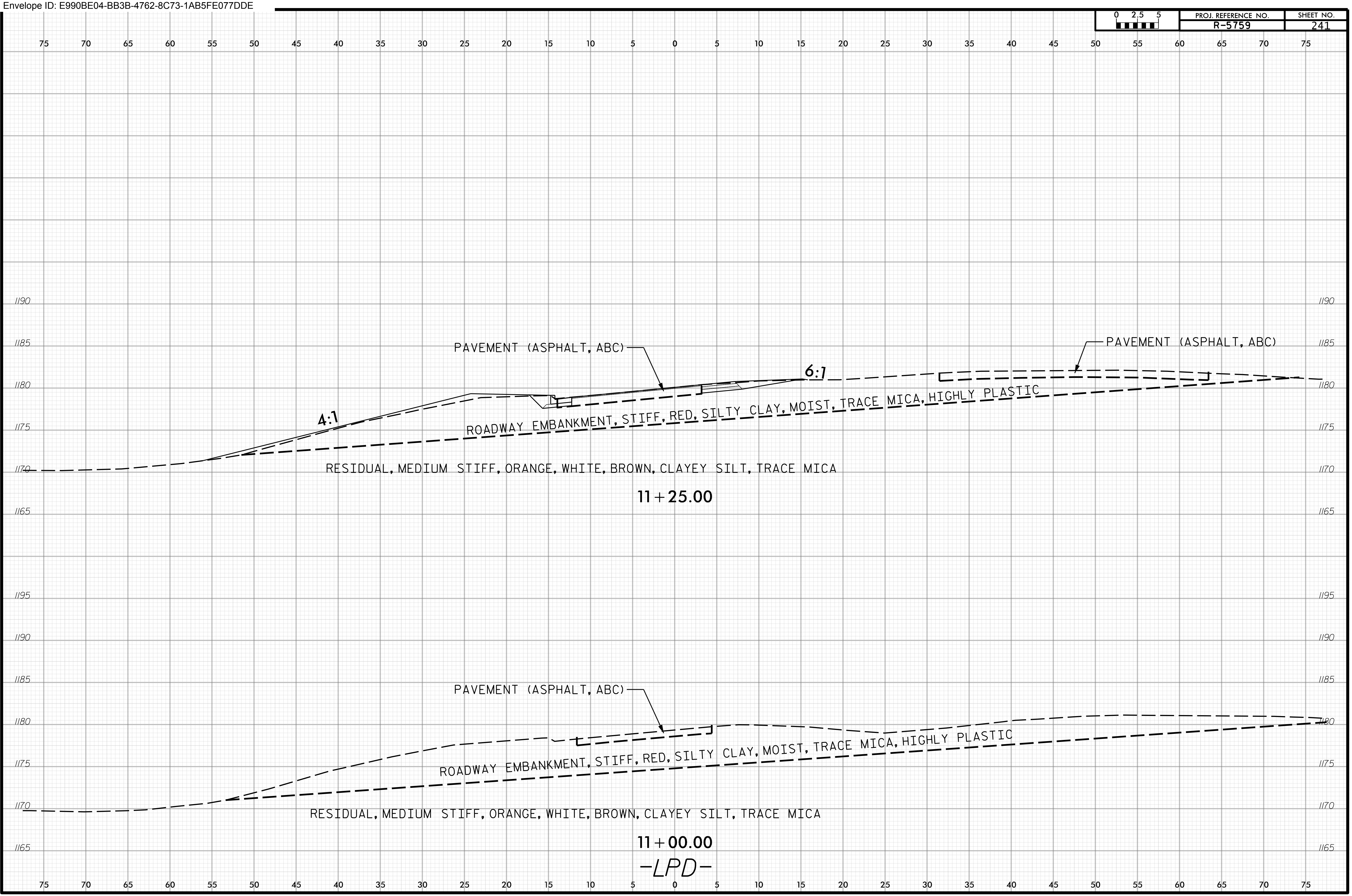
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PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT, ABC)
6:1
4:1
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

11+25.00

11+00.00

-LPD-

28-AUG-2024 12:44
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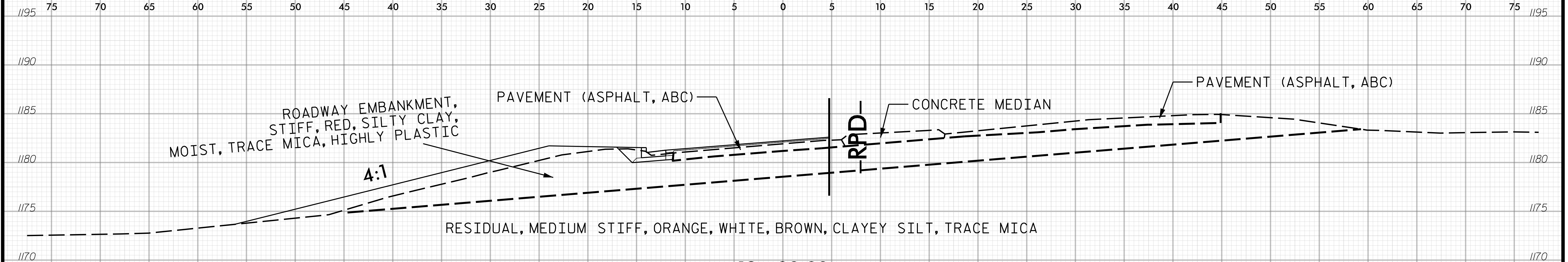

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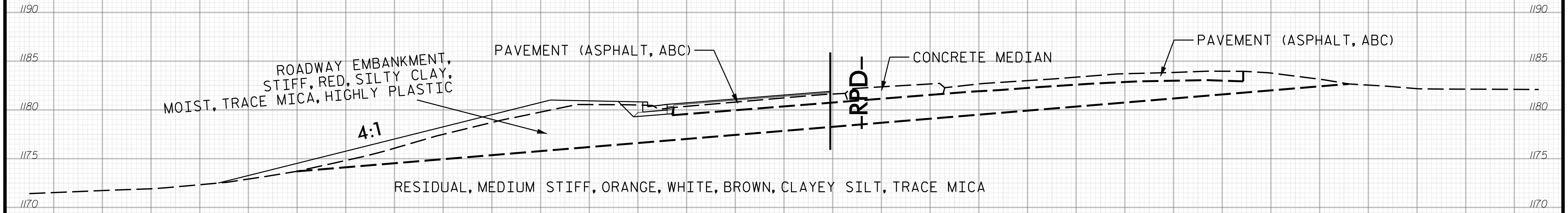
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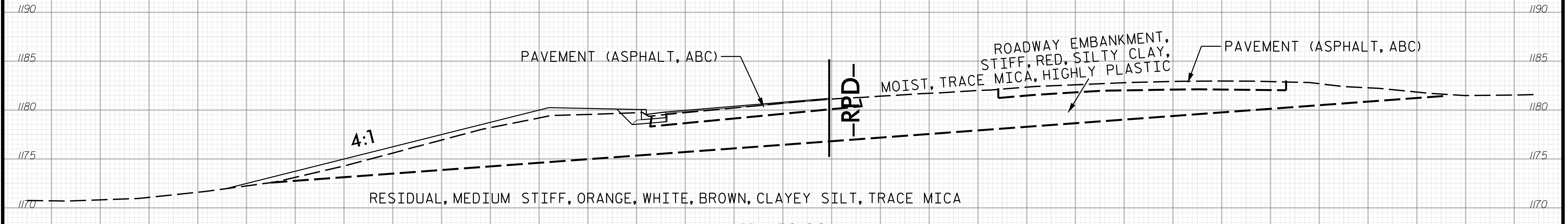
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
CONCRETE MEDIAN
PAVEMENT (ASPHALT, ABC)
-RPD-
4:1
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

11+75.00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PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
-RPD-
4:1
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA
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11+50.00

-LPD-

6/23/16

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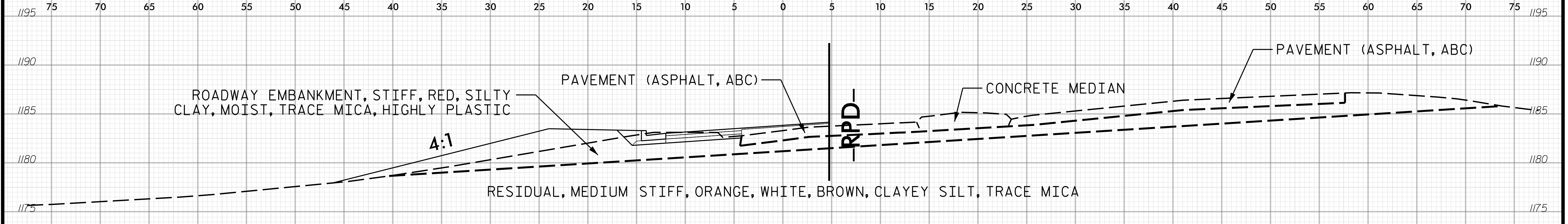
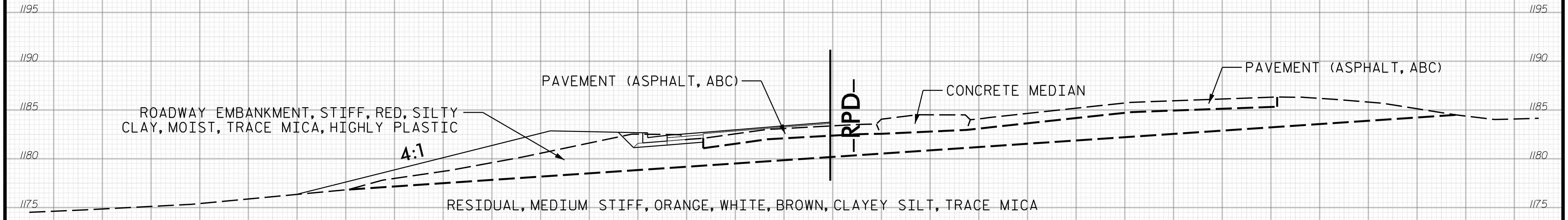


12 + 75.00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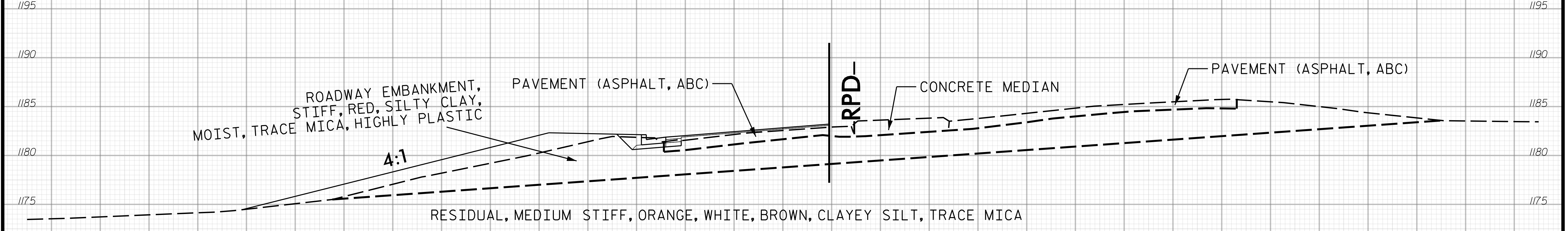
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
4:1
-RPD-
CONCRETE MEDIAN
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

12 + 50.00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ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
-RPD-
CONCRETE MEDIAN
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

12 + 25.00

-LPD-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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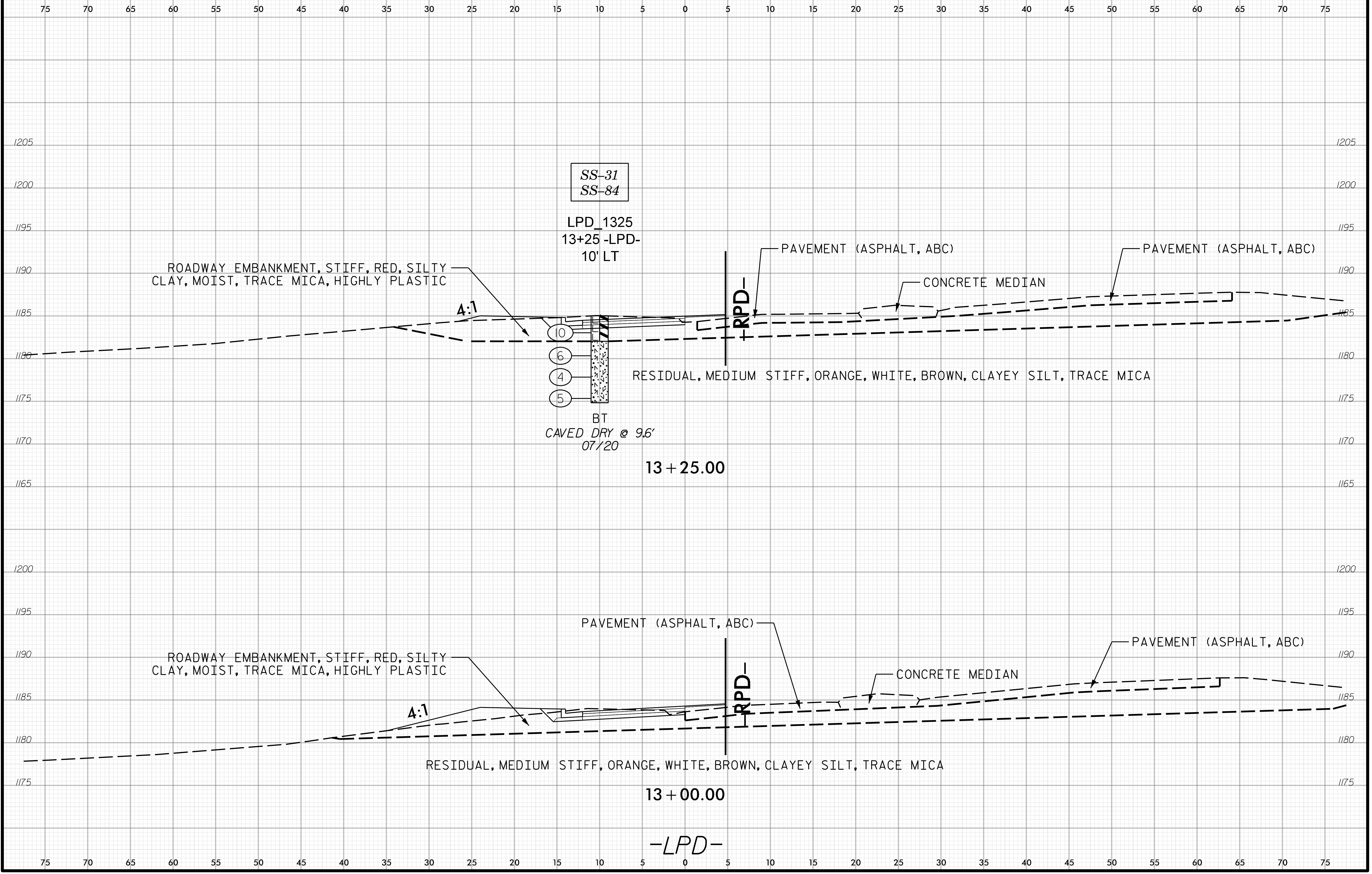
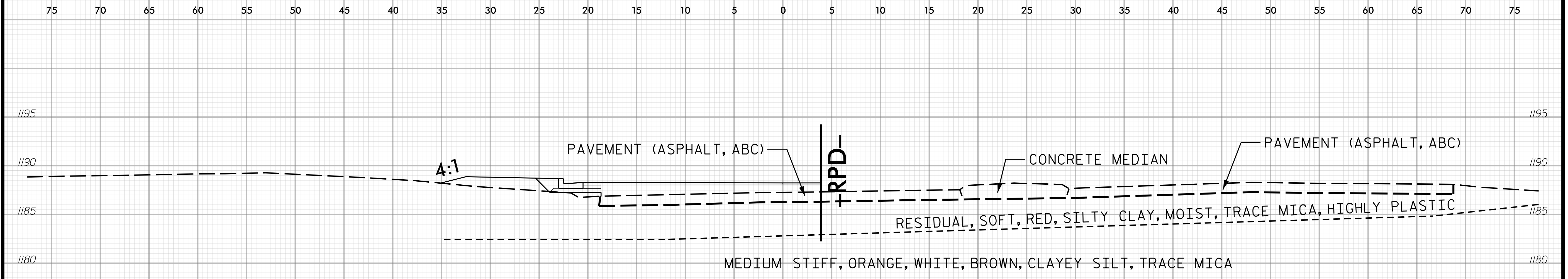
	R-5759	244





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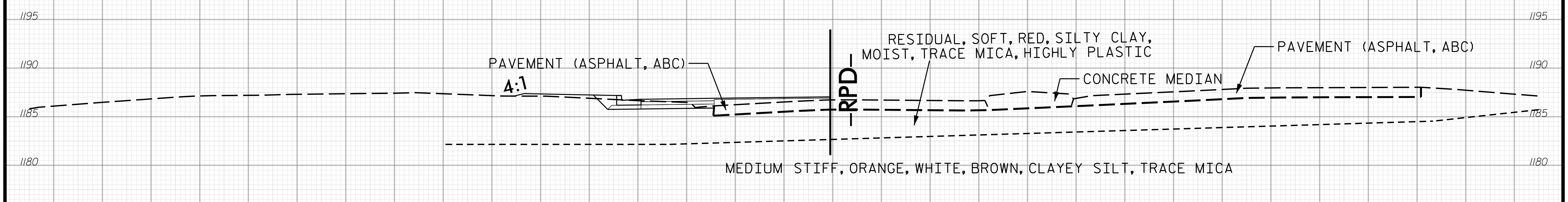
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RESIDUAL, SOFT, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
4:1
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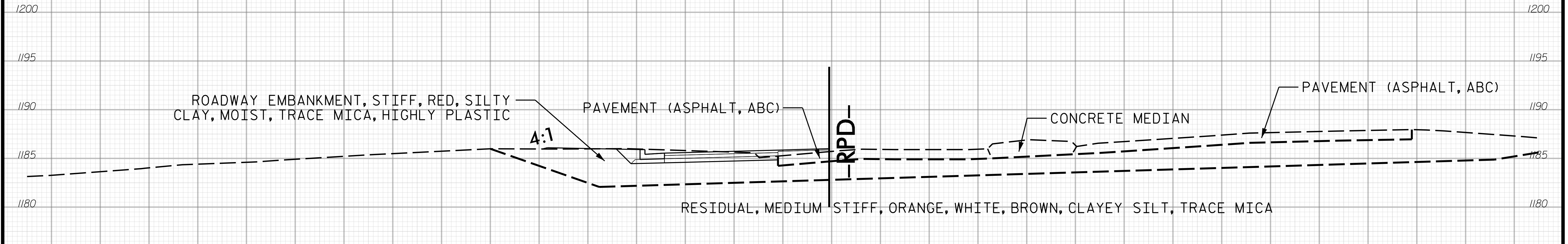
CONCRETE MEDIAN
PAVEMENT (ASPHALT, ABC)
MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

13+75.00



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6/23/16

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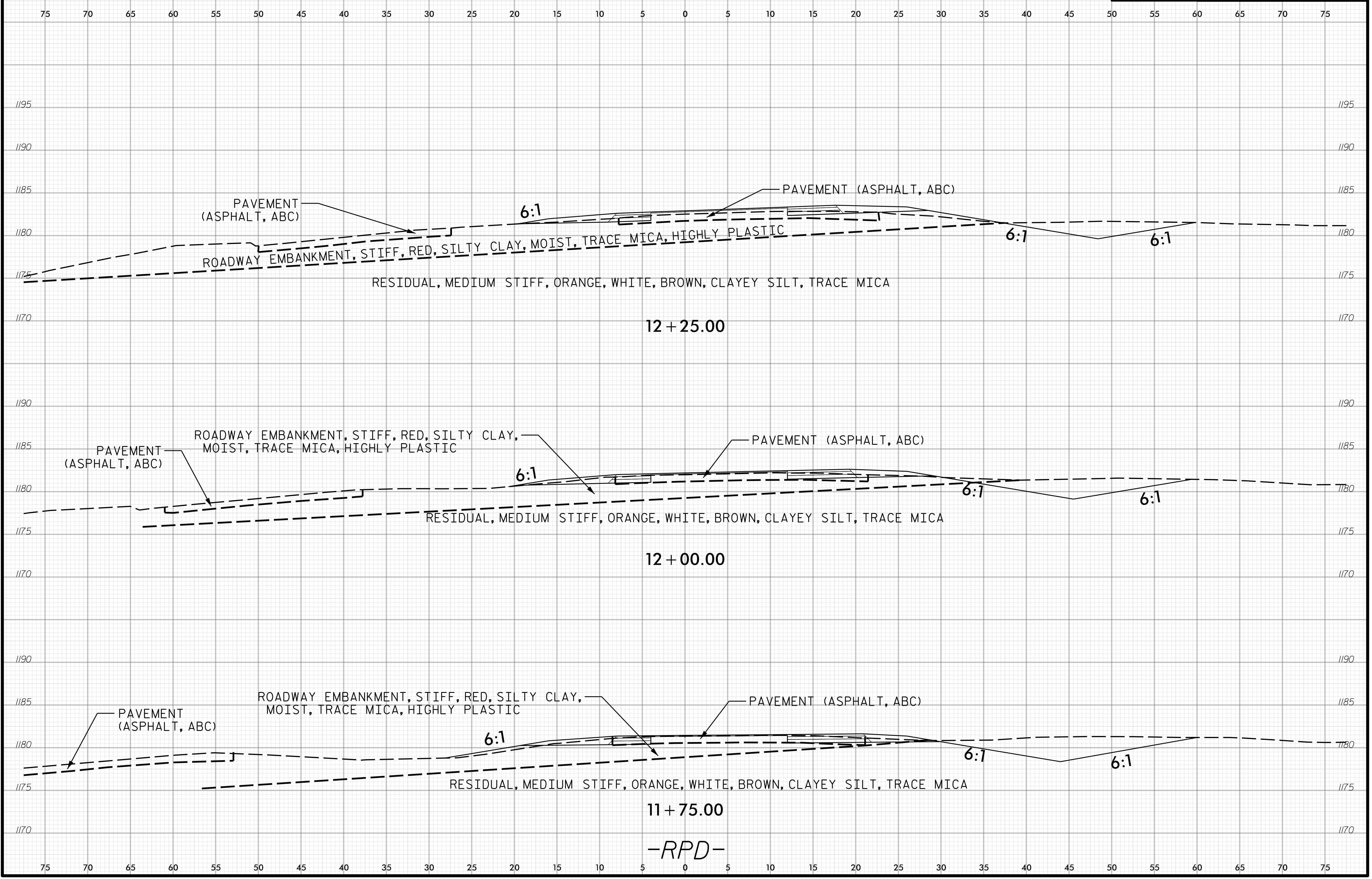
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1195
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PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT, ABC)
6:1
6:1
6:1
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA
12+25.00
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT, ABC)
6:1
6:1
6:1
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA
12+00.00
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT (ASPHALT, ABC)
PAVEMENT (ASPHALT, ABC)
6:1
6:1
6:1
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA
11+75.00
-RPD-

28-AUG-2024 12:44
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mlhartman AT W007005069

6/23/16

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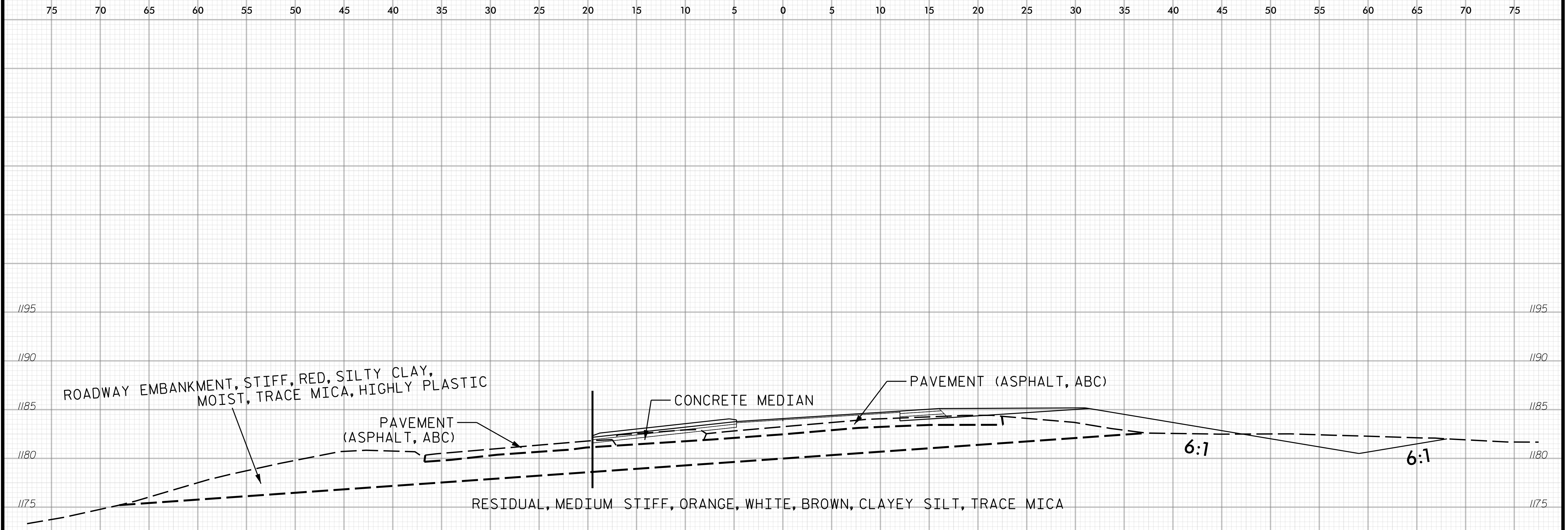
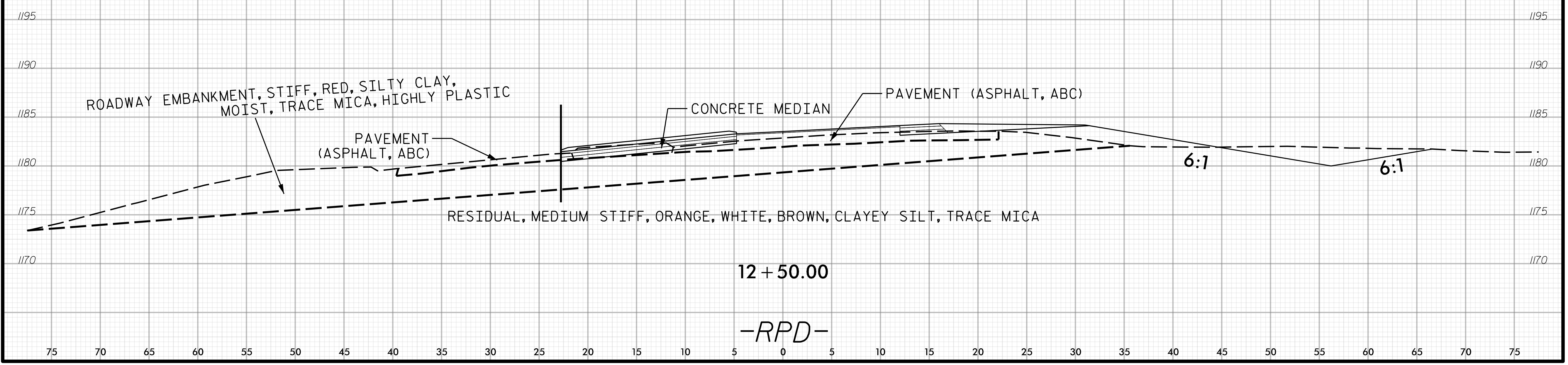


12 + 75.00



12 + 50.00

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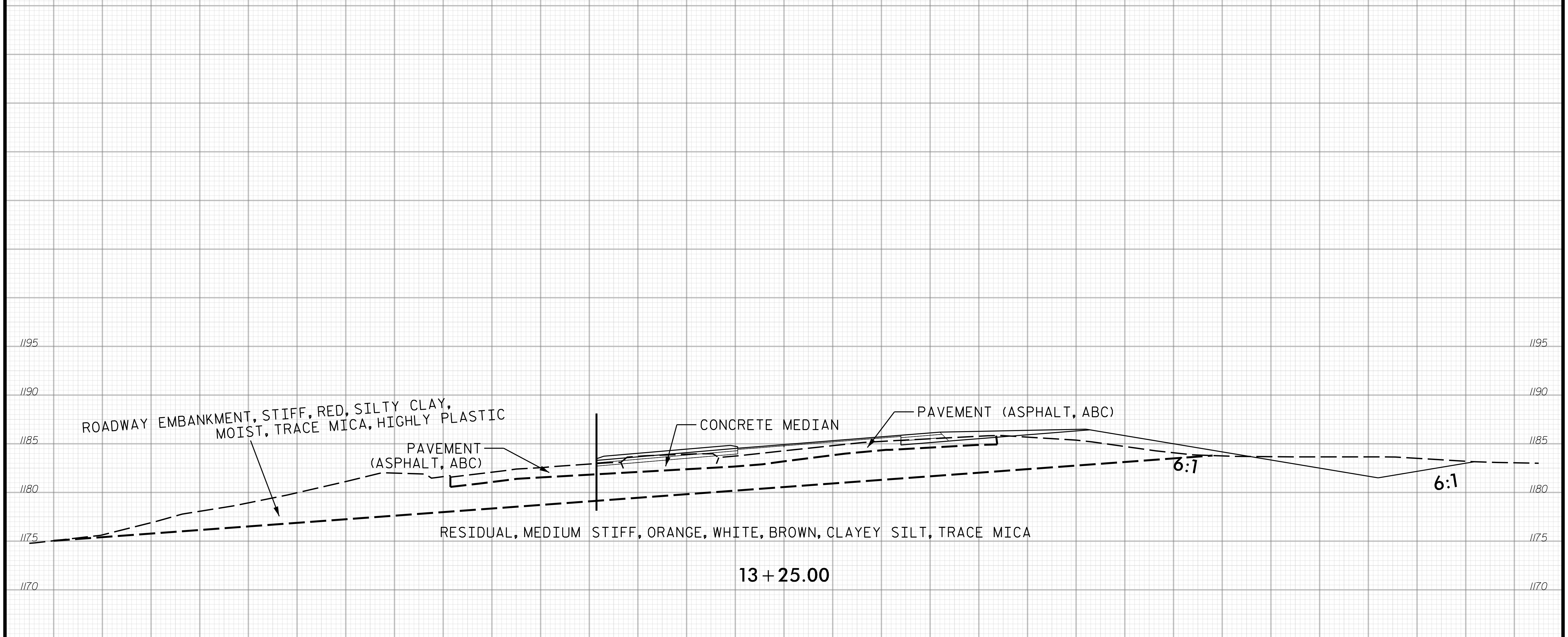

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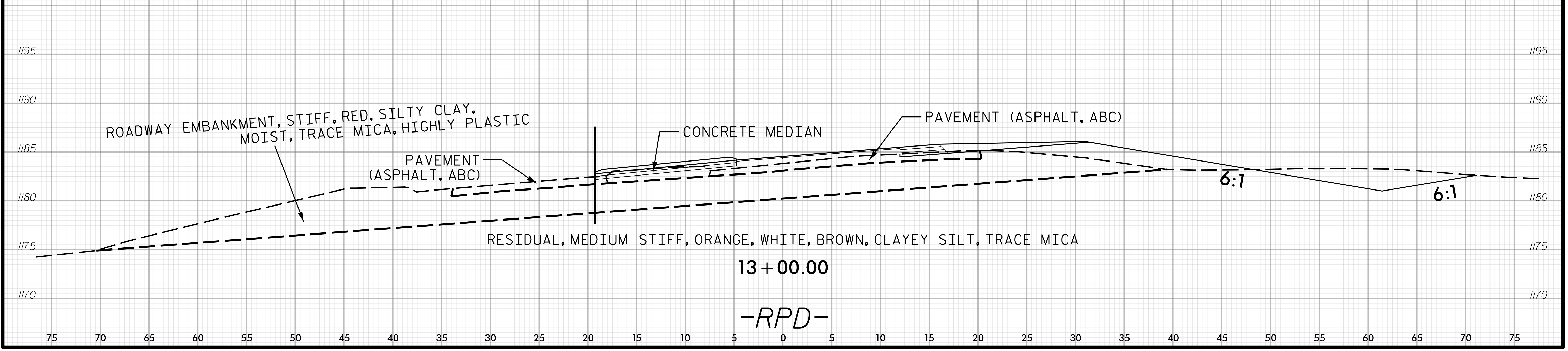

13+00.00

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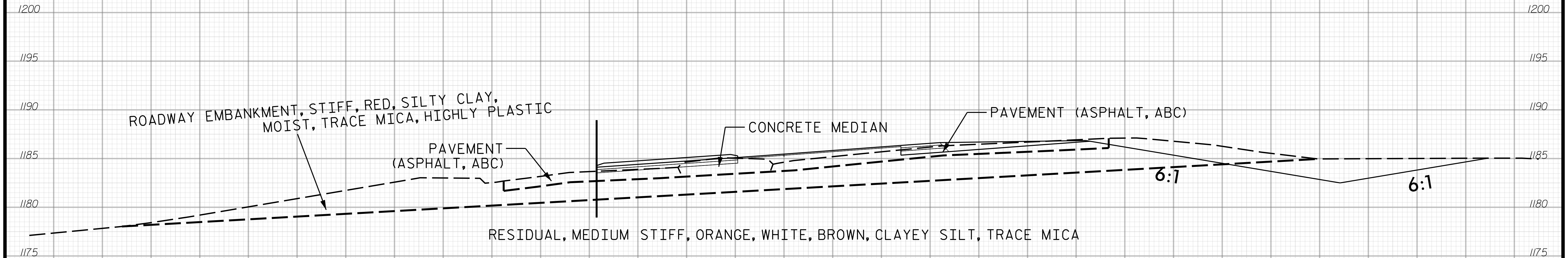

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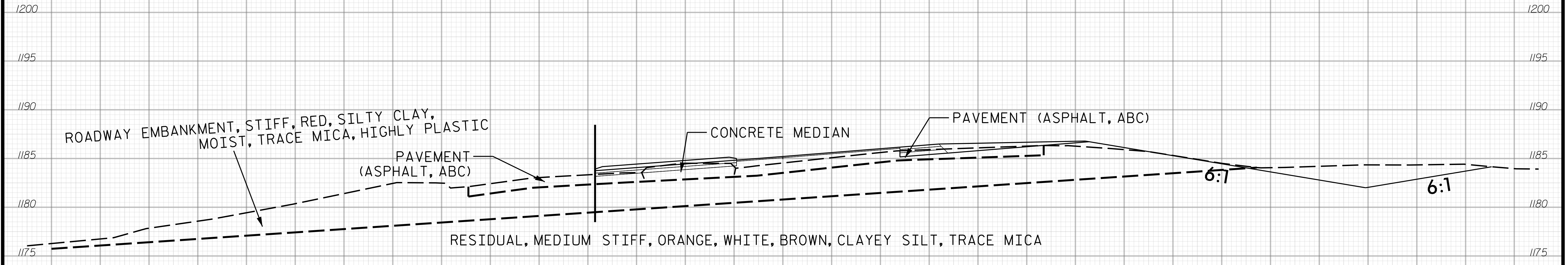

13 + 50.00

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6/23/16

28-AUG-2024 12:44
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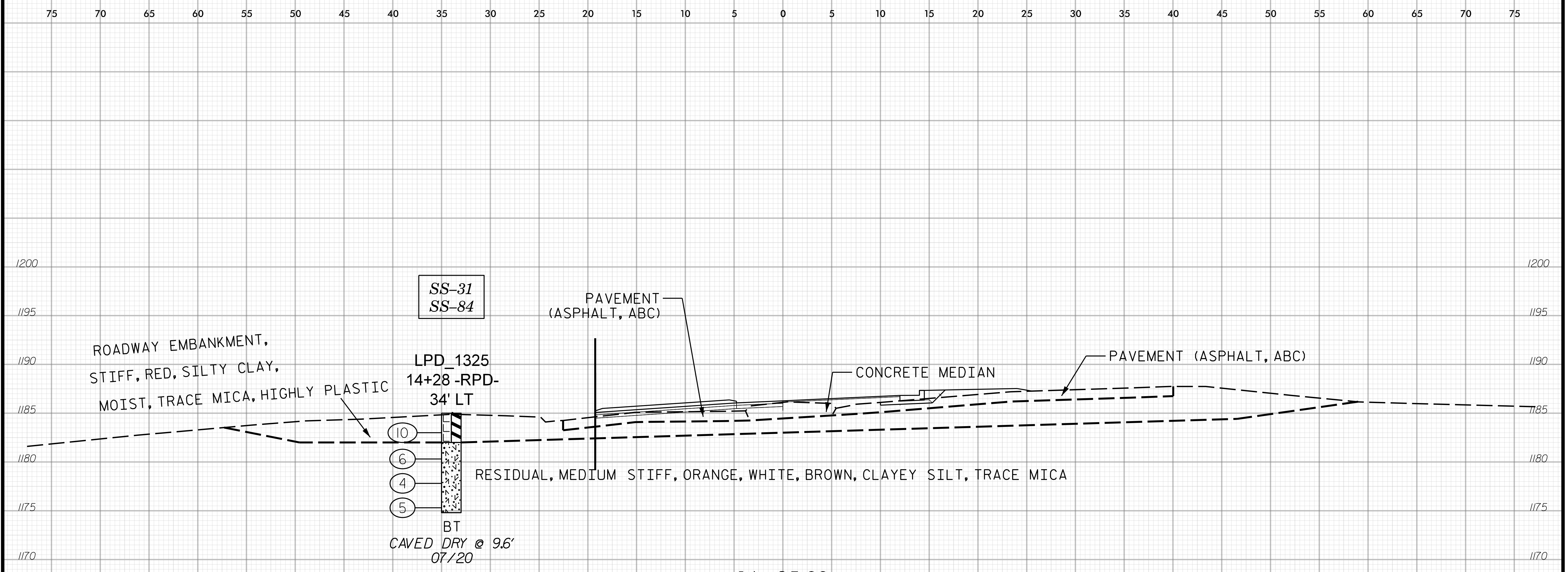

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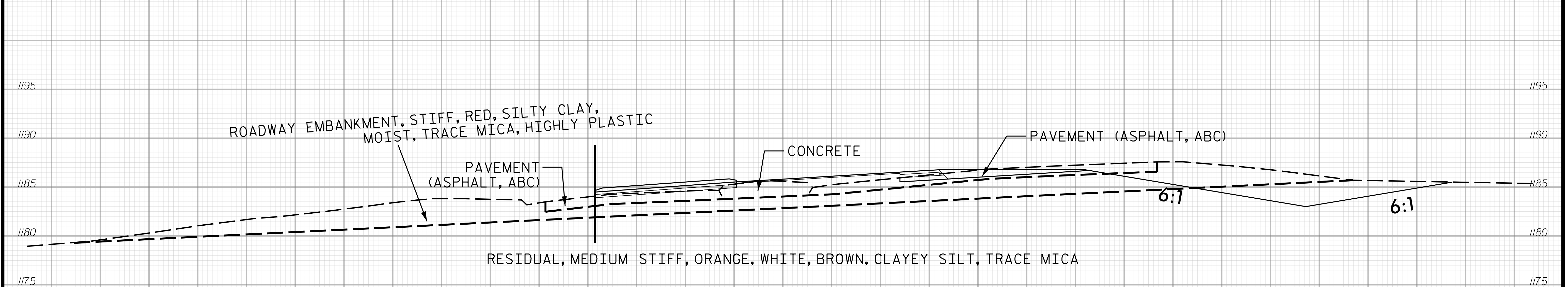
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ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY,
MOIST, TRACE MICA, HIGHLY PLASTIC
PAVEMENT
(ASPHALT, ABC)
CONCRETE
PAVEMENT (ASPHALT, ABC)
6:1
6:1
RESIDUAL, MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

14+00.00

-RPD-

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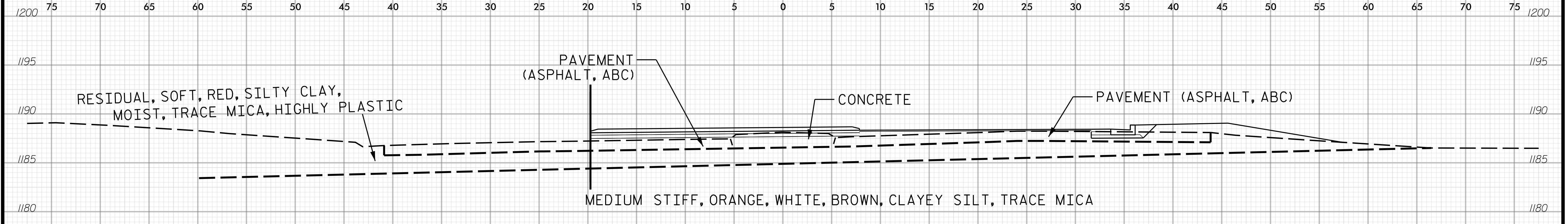
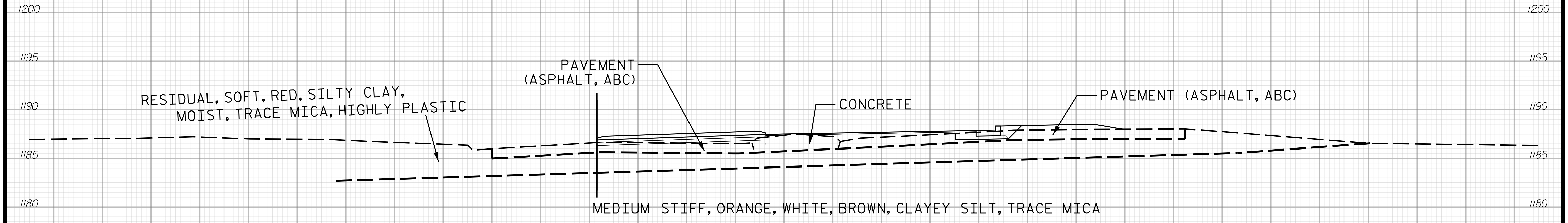


15+00.00


1175
1200
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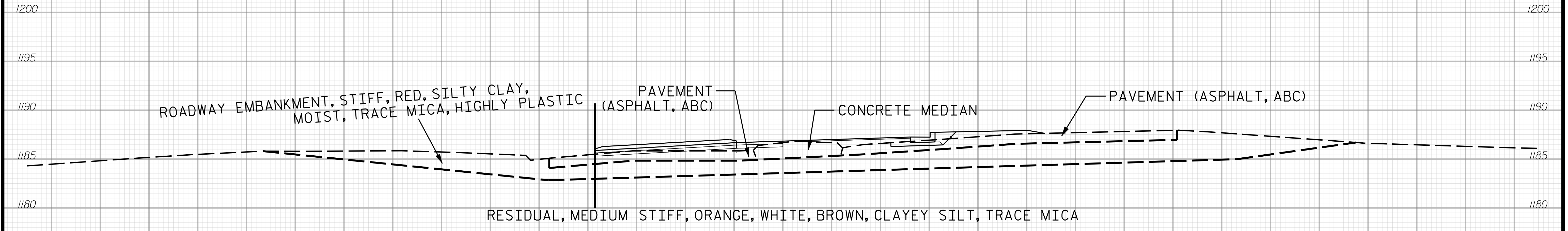
PAVEMENT (ASPHALT, ABC)
CONCRETE
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF, ORANGE, WHITE, BROWN, CLAYEY SILT, TRACE MICA

14+75.00



14+50.00

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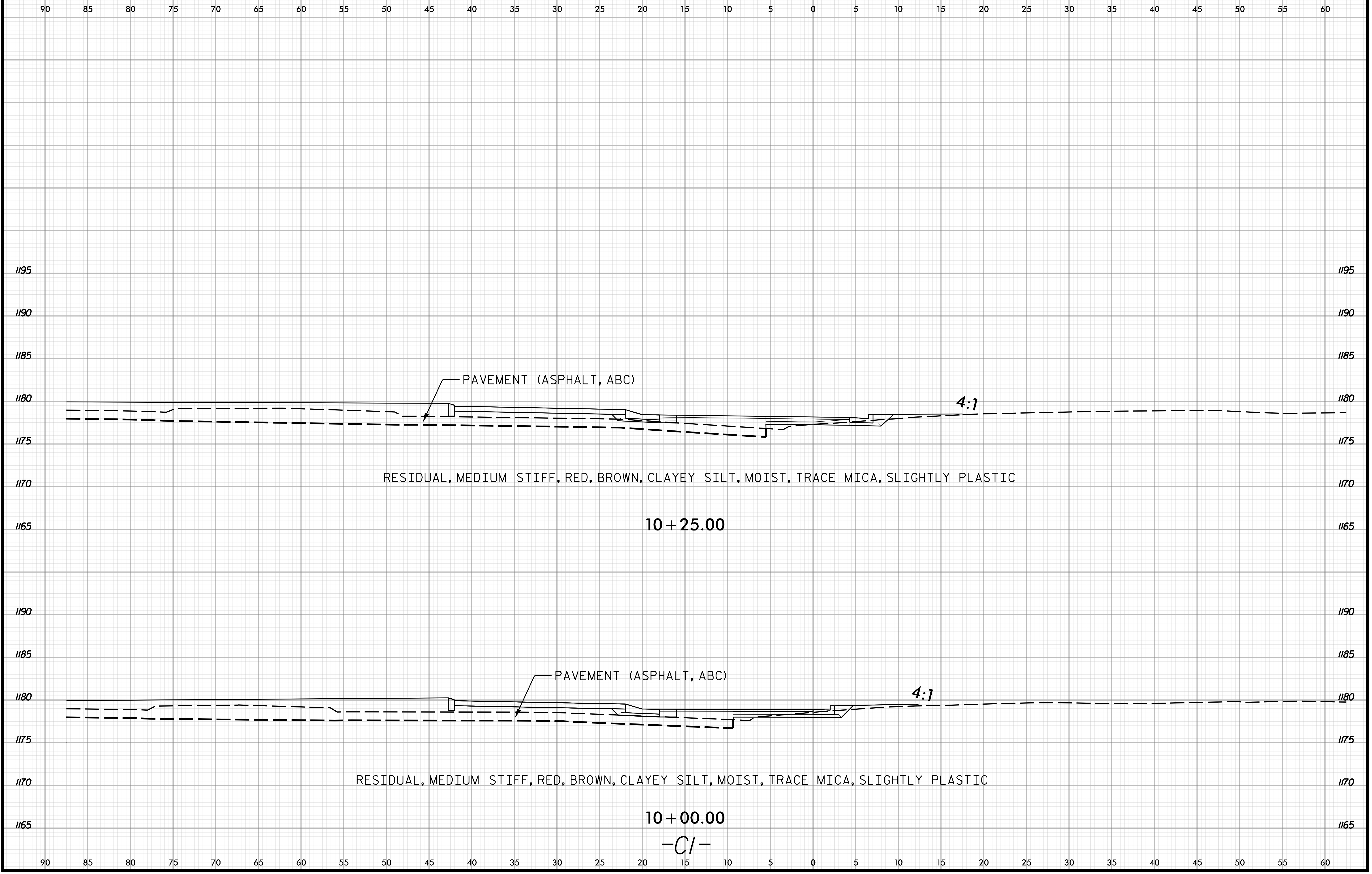

6/23/16

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mlhartman AT W00700050699

6/23/16

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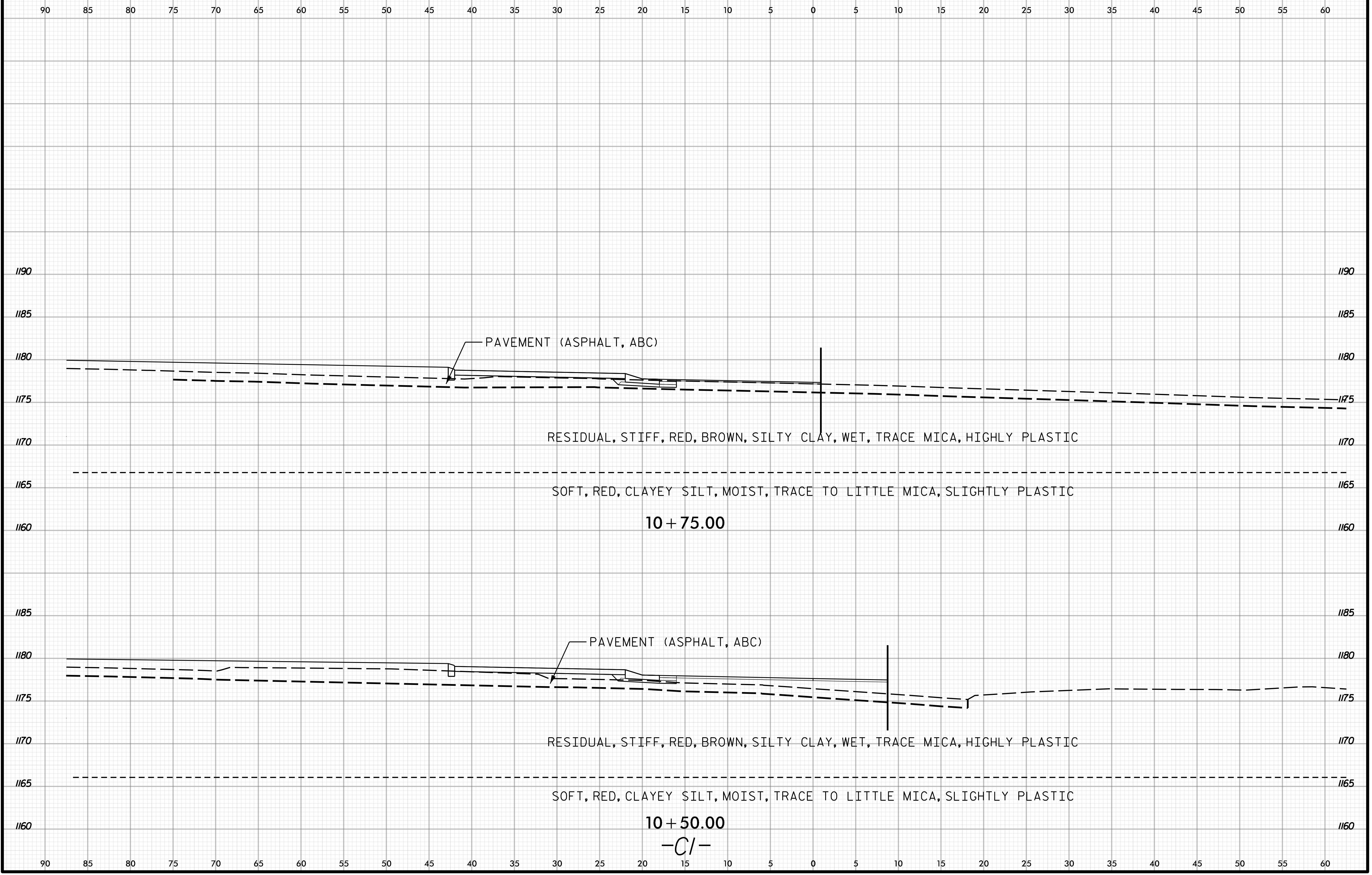
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PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
1185
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1160
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC

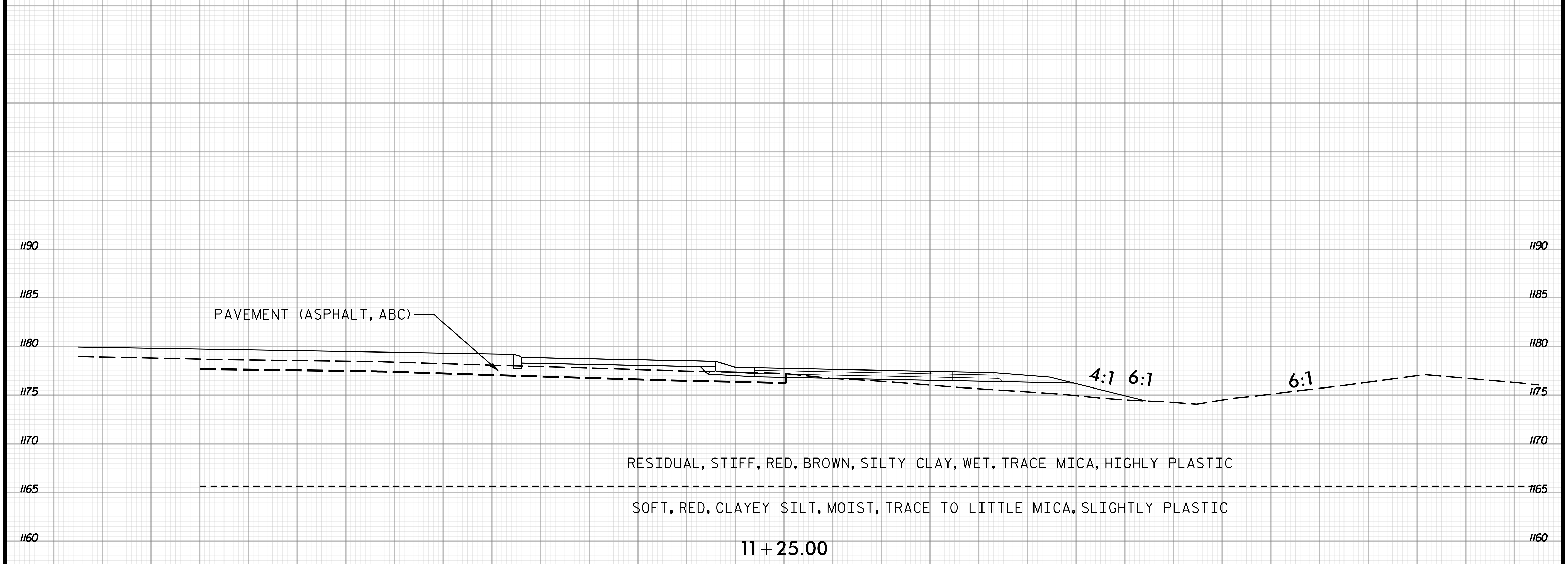
10+75.00

10+50.00

-C1-

14-AUG-2024 10:42
N:\Projects\2018\70185317\R5759\R5759_GEO_RDWY_modifier\CADD_GEOTECH\xsc\R5759_GEO_RDY_XSI_C1.dgn
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	254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1190
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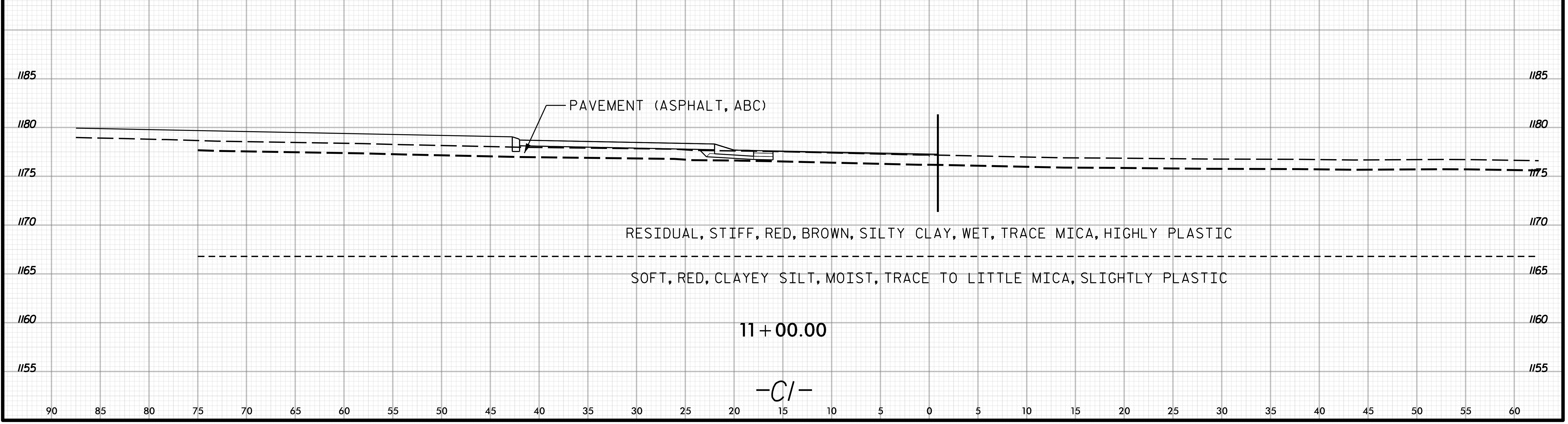
1175
1170
1165
1160
PAVEMENT (ASPHALT, ABC)
4:1
6:1
6:1
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC

11+25.00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1180
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1155
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
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60

11+00.00

-C1-

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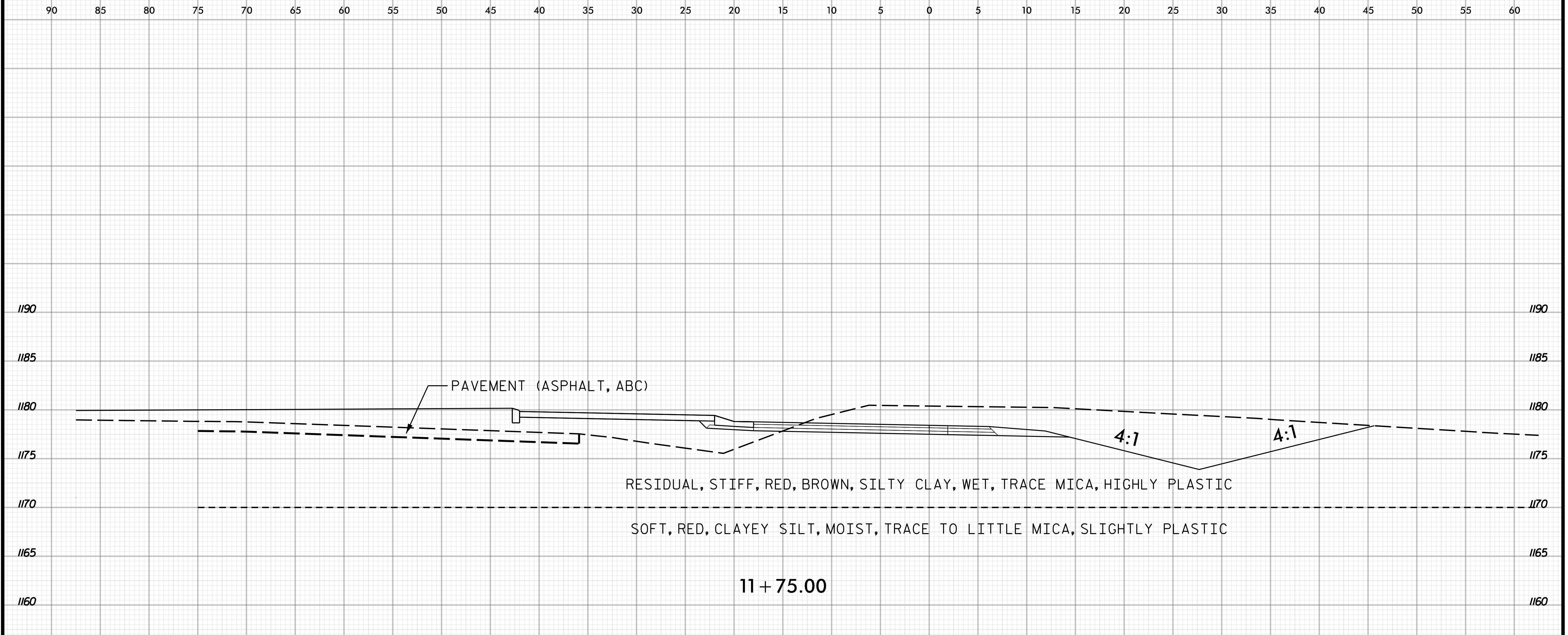
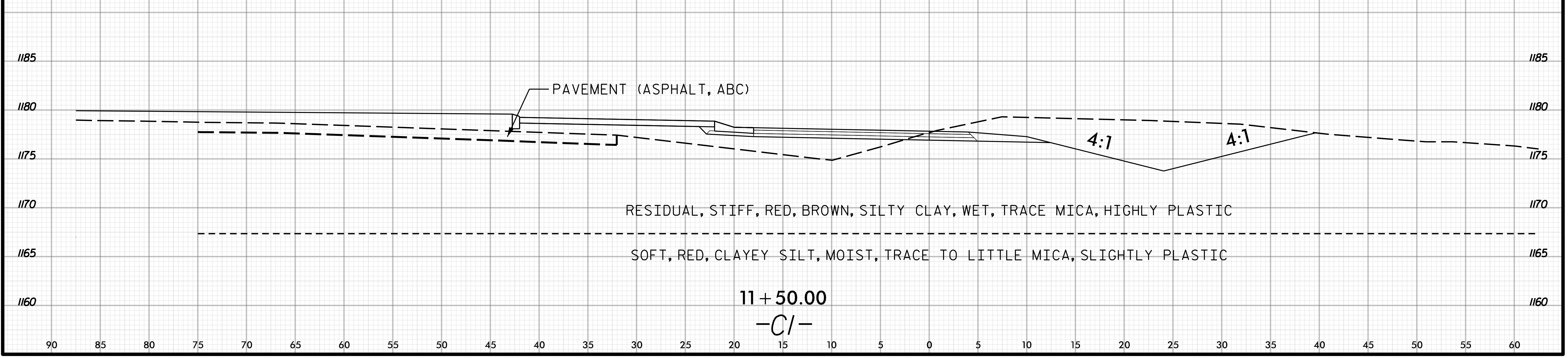
PROJ. REFERENCE NO.	SHEET NO.
R-5759	255



11+75.00



11+50.00

-Cl-

6/23/16

14-AUG-2024 10:42
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mlhartman AT W00700050699

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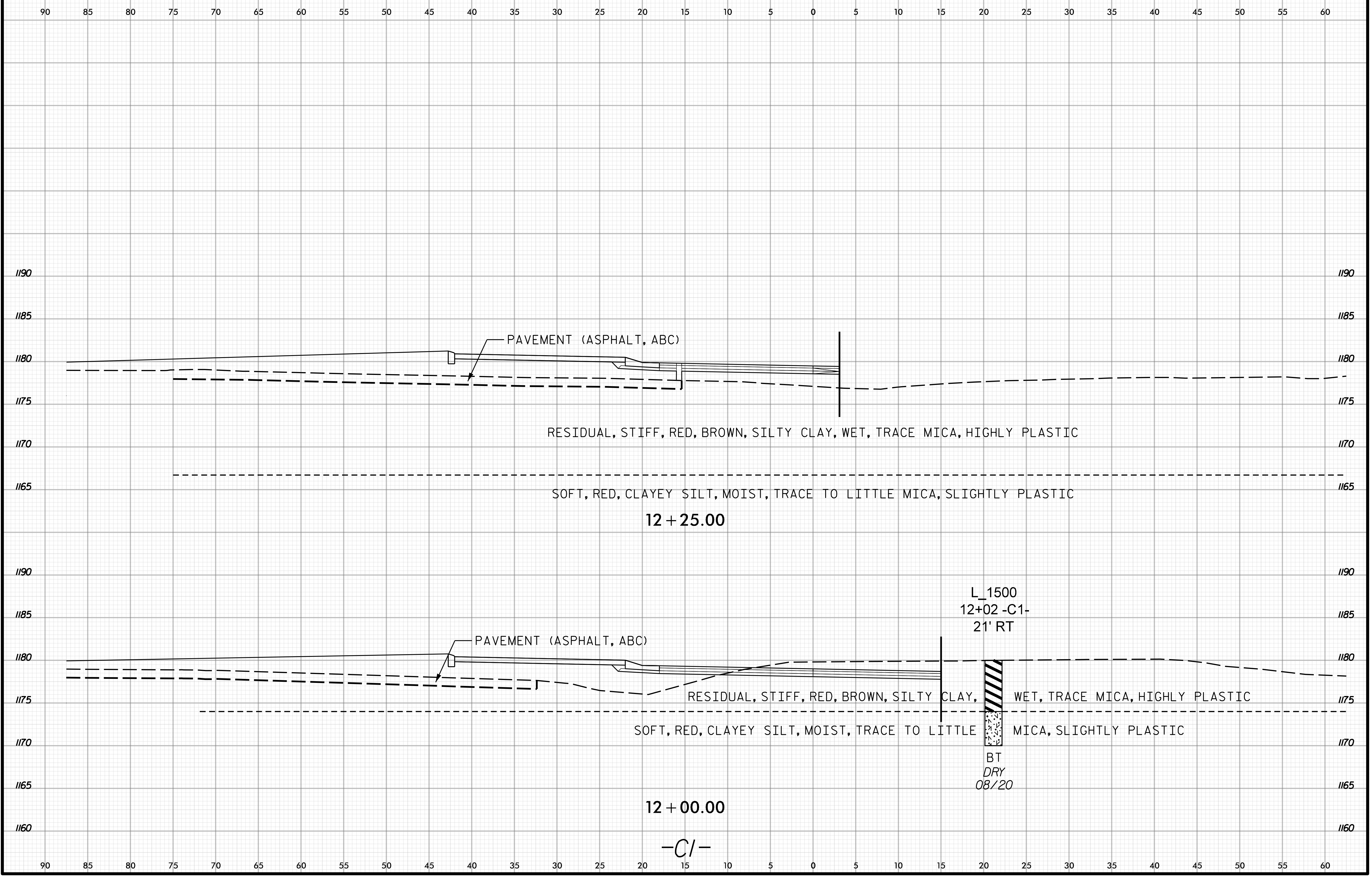
	R-5759	256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1190
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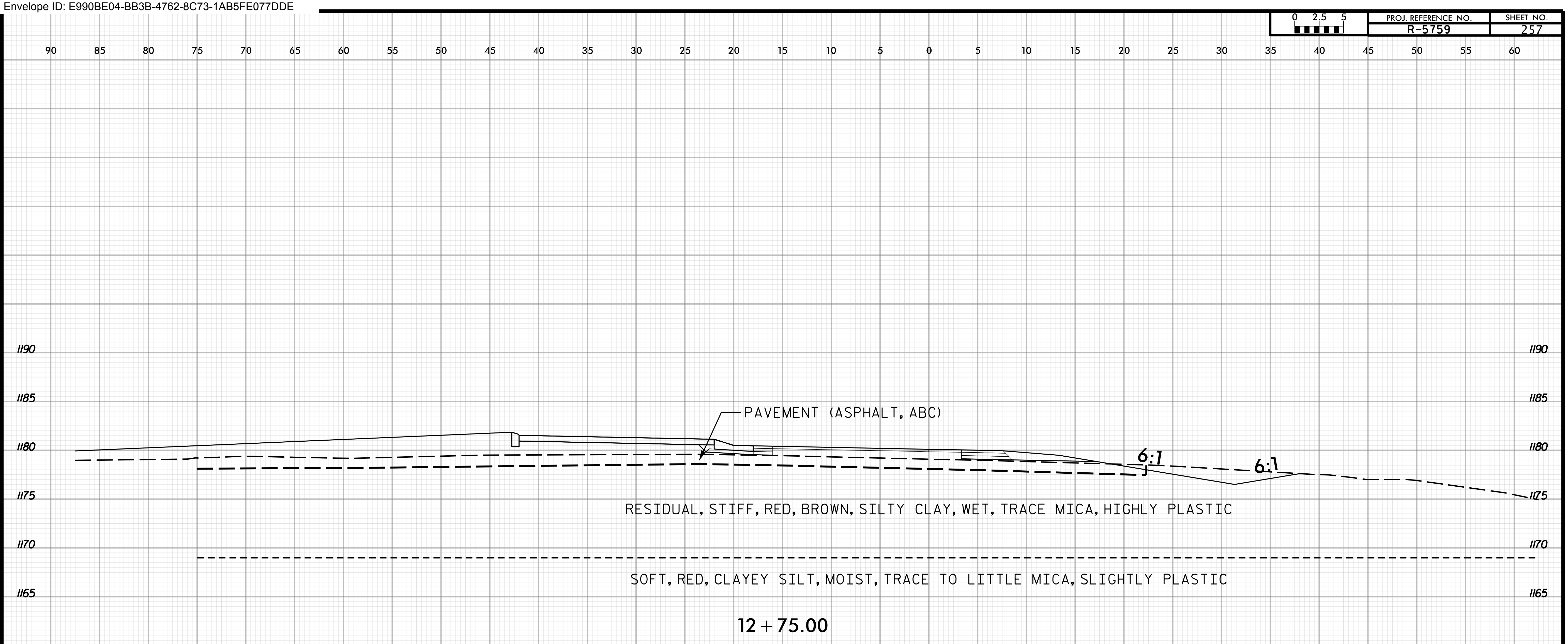
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
12+25.00
1190
1185
1180
1175
1170
1165
1160
L_1500
12+02 -C1-
21' RT
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
BT
DRY
08/20
12+00.00
-C1-

14-AUG-2024 10:42
N:\Projects\2018\70185317\R5759\R5759_GEO_RDWY_modifier\CADD_GEOTECH\xsc\R5759_GEO_RDY_XSI_C1.dgn
mlhartman AT W0070050699

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	257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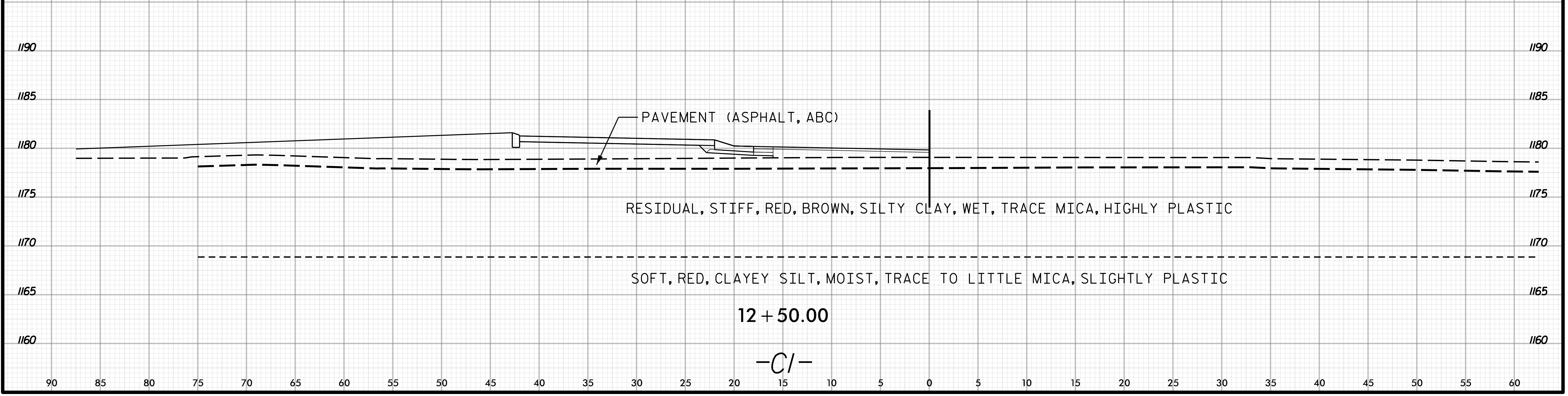
60
1190
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
6:1
6:1
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC

12 + 75.00


1190
1185
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1175
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1165
1160
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, RED, BROWN, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE TO LITTLE MICA, SLIGHTLY PLASTIC
90
85
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35
30
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50
55
60

12 + 50.00

-Cl-

14-AUG-2024 10:42
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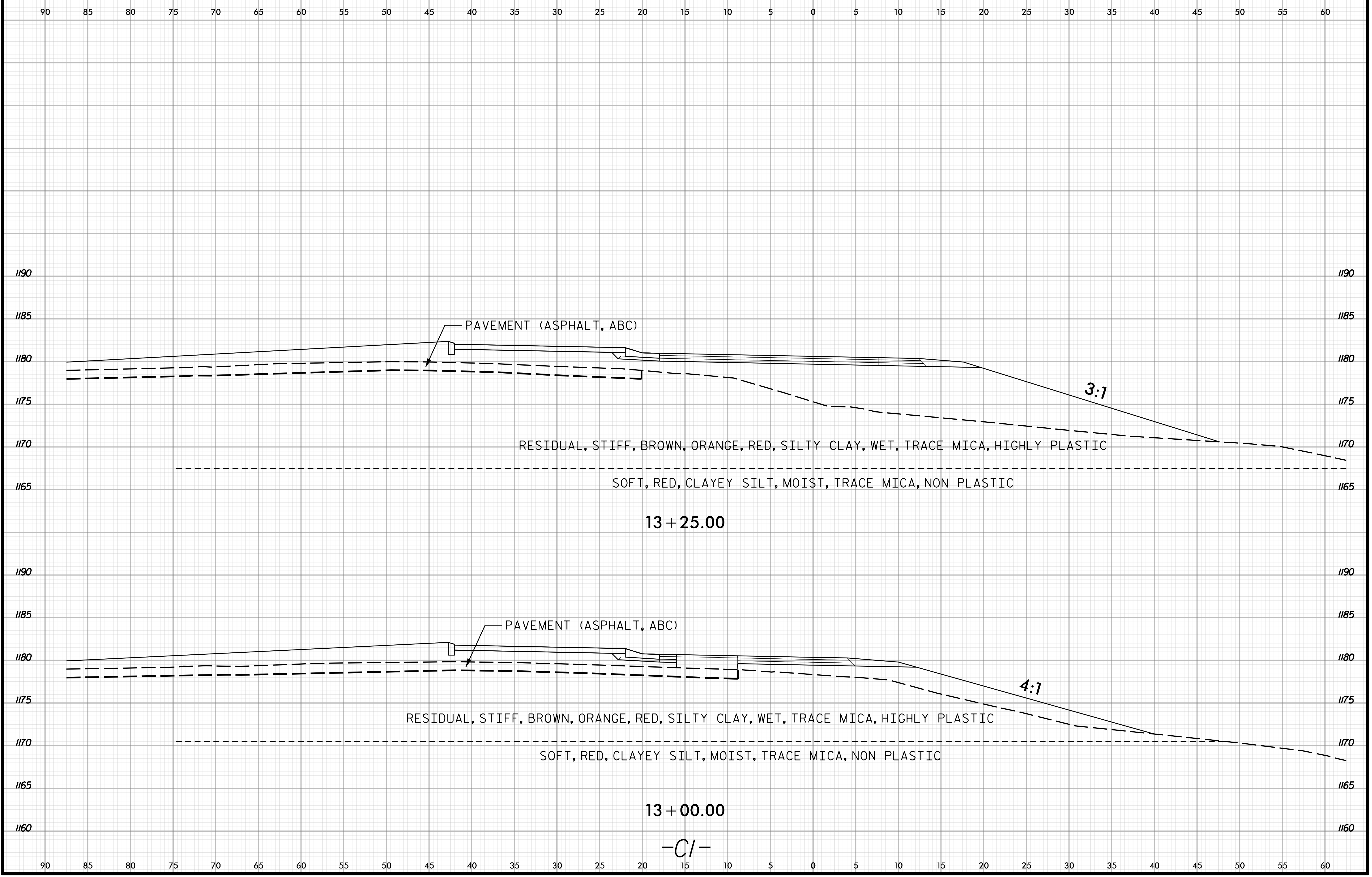
mlhartman AT W0070050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	258


90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60
1190
1185
1180
1175
1170
1165
PAVEMENT (ASPHALT, ABC)
3:1
RESIDUAL, STIFF, BROWN, ORANGE, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
1190
1185
1180
1175
1170
1165
1160
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, STIFF, BROWN, ORANGE, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC

13+25.00

13+00.00

-C1-

6/23/16

14-AUG-2024 10:42
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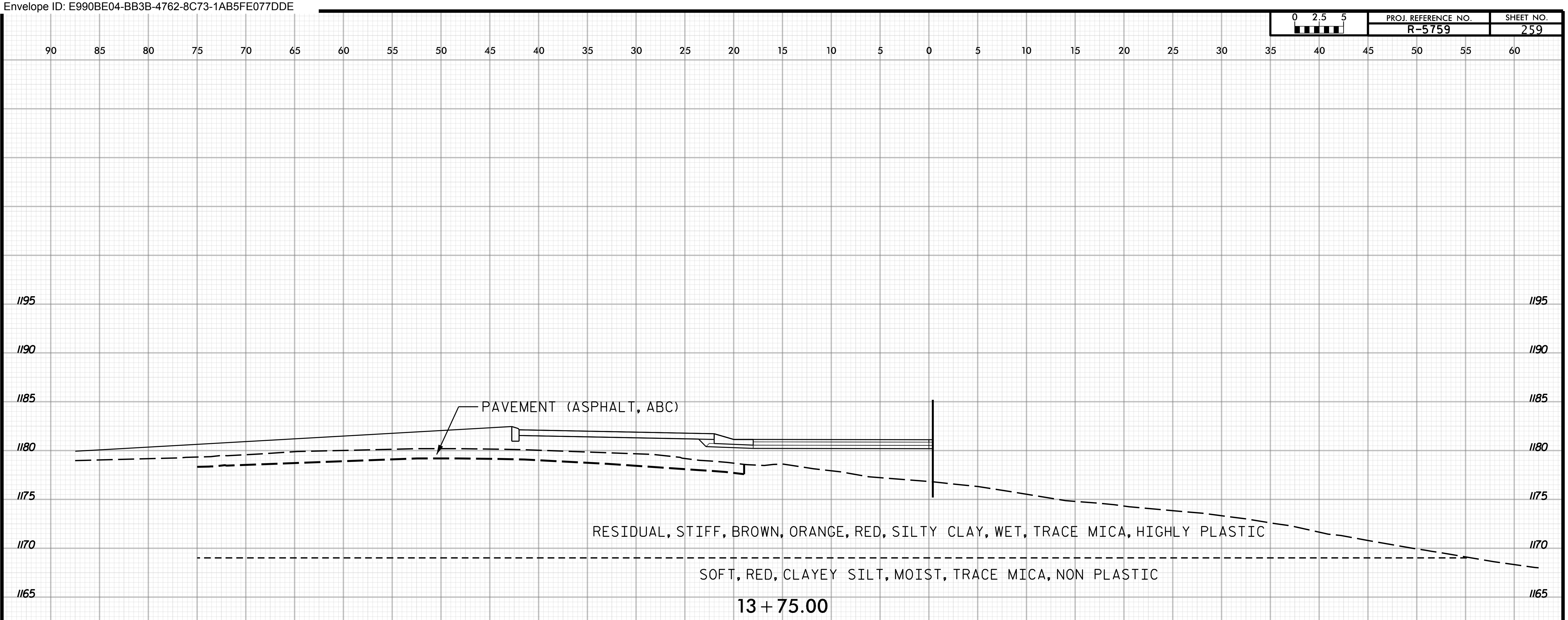
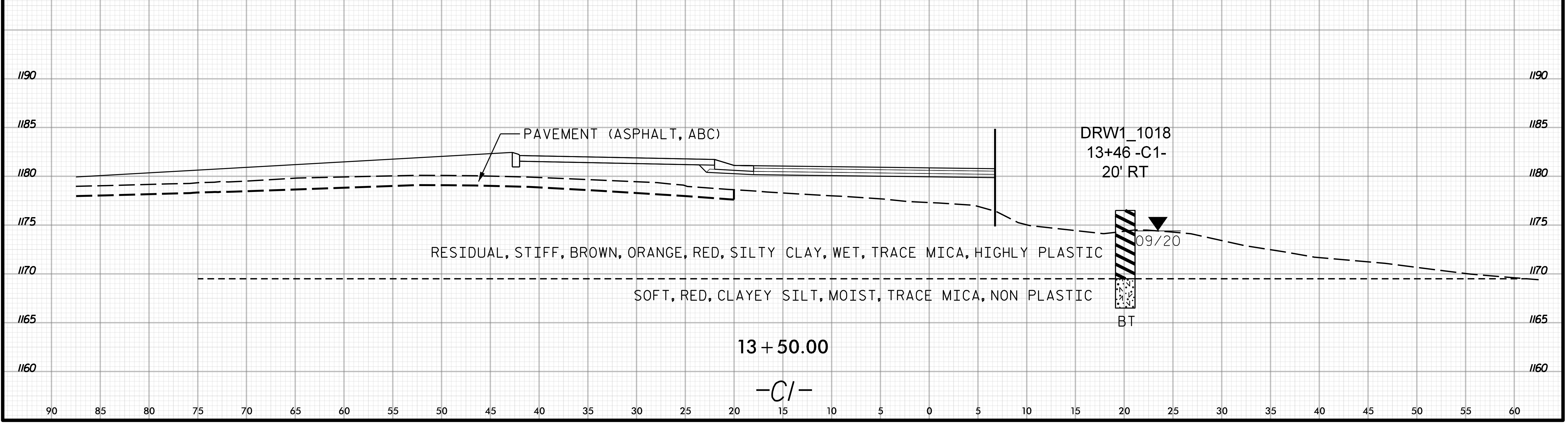
mlhartman AT W0070050699

6/23/16



13+75.00



13+50.00

-C1-

14-AUG-2024 10:42
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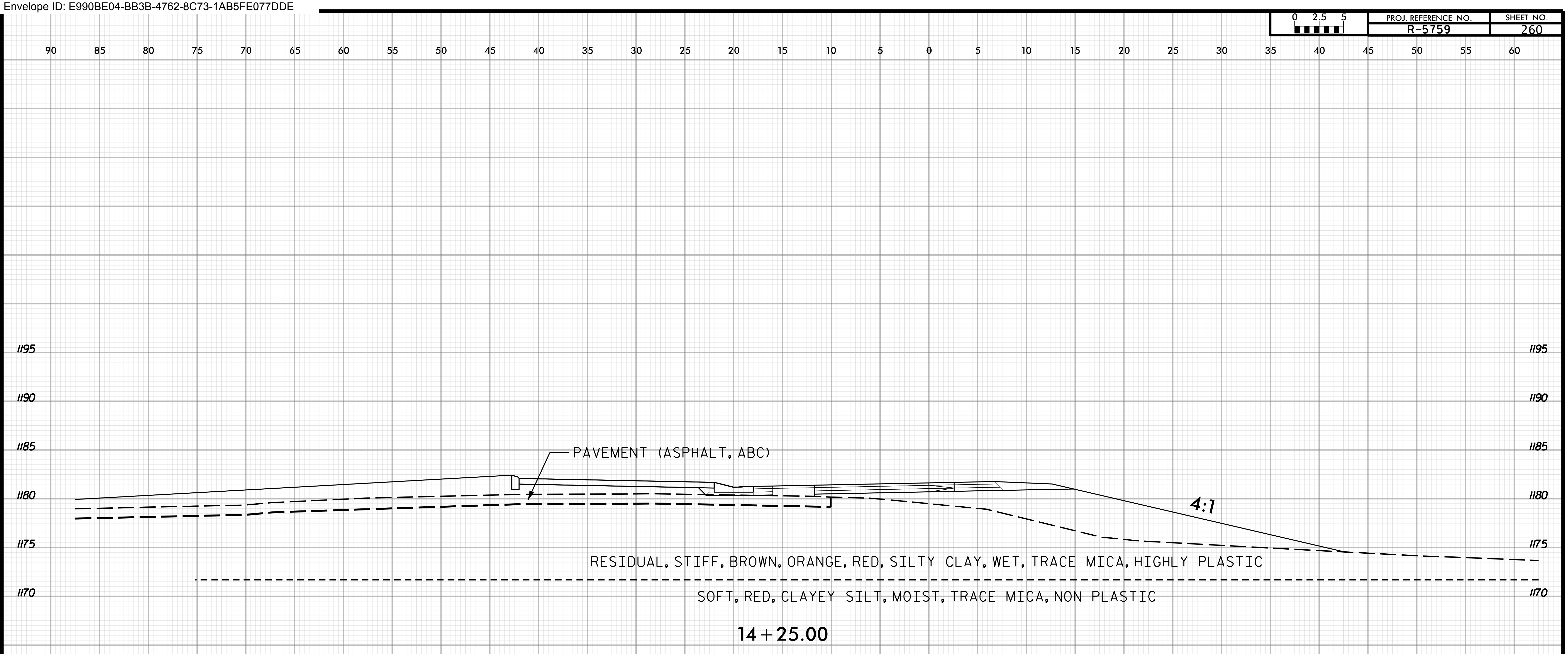
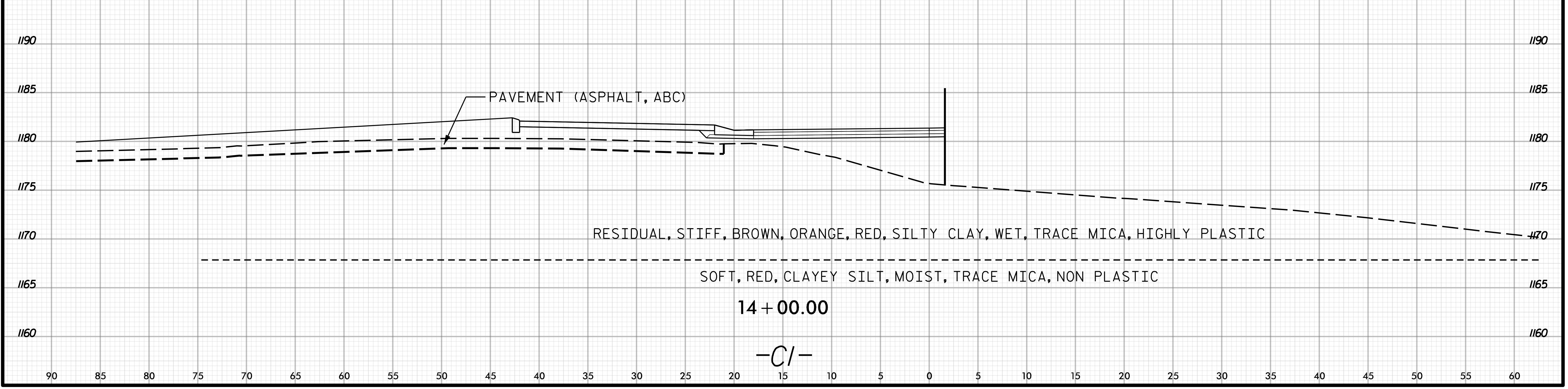
mlhartman AT W007005069

PROJ. REFERENCE NO.	SHEET NO.
R-5759	260

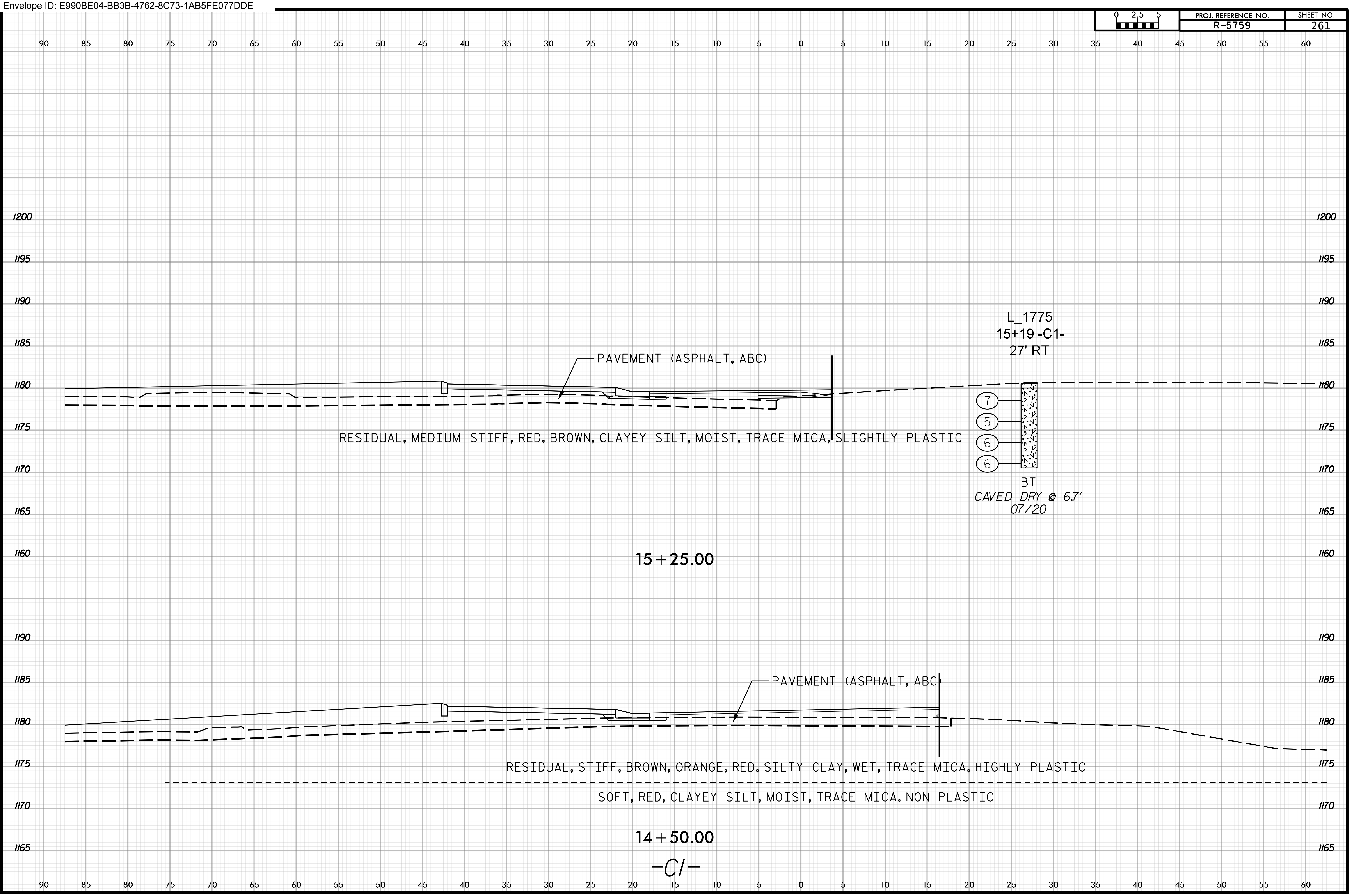


14+25.00



14+00.00

-Cl-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6/23/16
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60
1200
1195
1190
1185
1180
1175
1170
1165
1160
L_1775
15+19 -C1-
27' RT
PAVEMENT (ASPHALT, ABC)
RESIDUAL, MEDIUM STIFF, RED, BROWN, CLAYEY SILT, MOIST, TRACE MICA, SLIGHTLY PLASTIC
7
5
6
6
BT
CAVED DRY @ 6.7'
07/20
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF, BROWN, ORANGE, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
14-AUG-2024 10:42
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mlhartman AT W00700050699

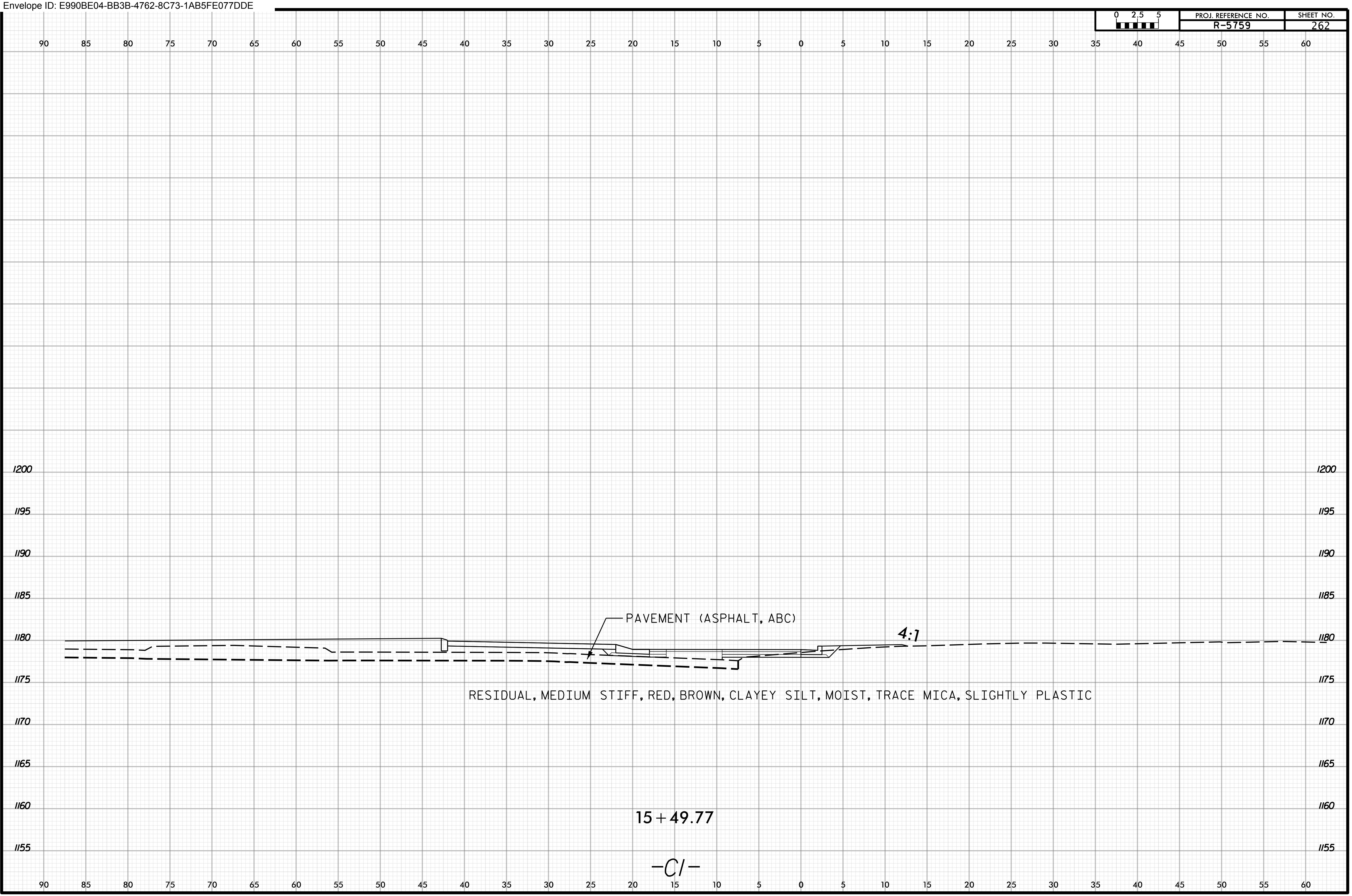
15+25.00

14+50.00

-C1-

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	262



15+49.77

-C1-

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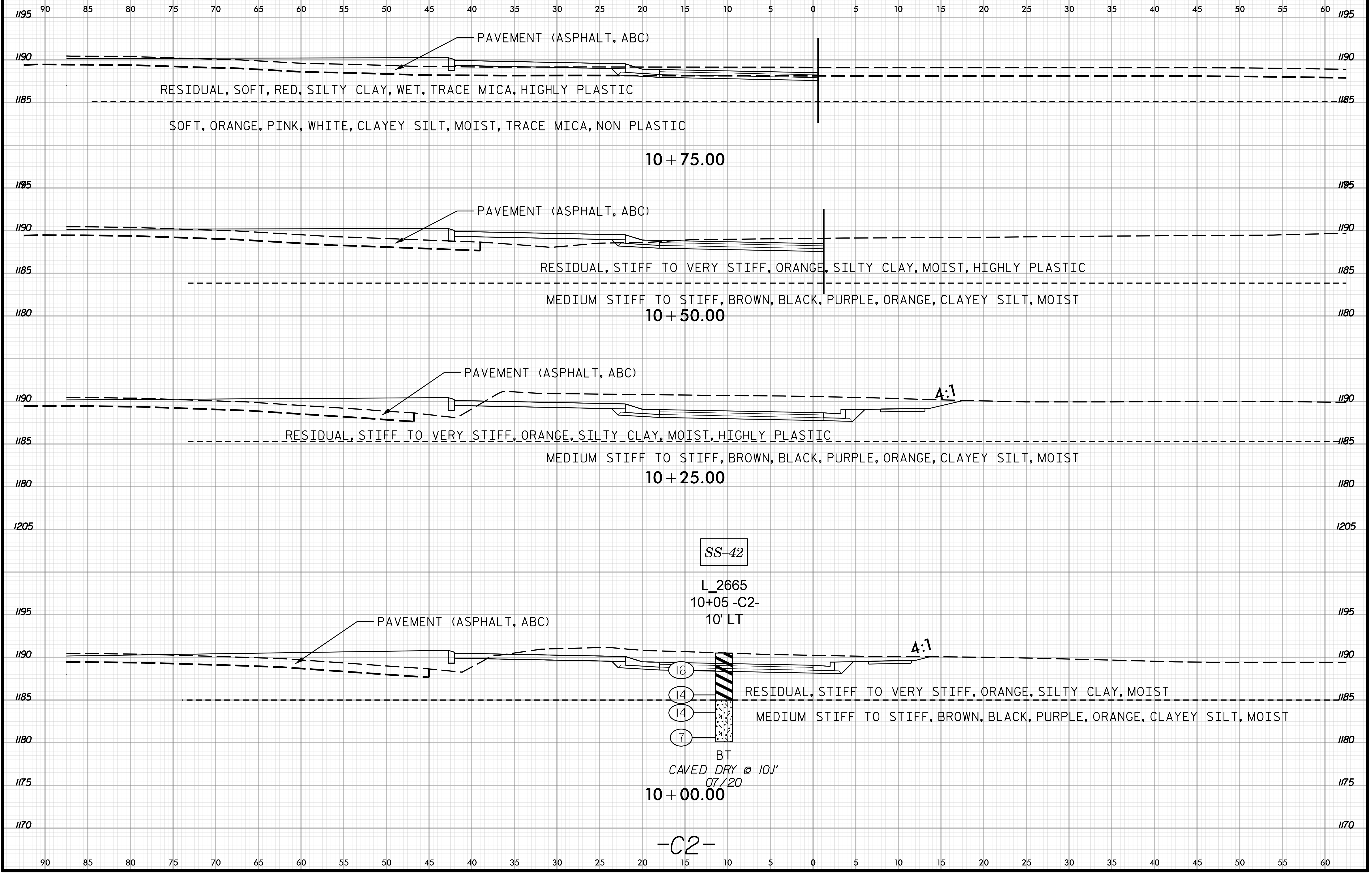

PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
10+75.00
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
10+50.00
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
10+25.00
SS-42
L_2665
10+05 -C2-
10' LT
PAVEMENT (ASPHALT, ABC)
4:1
16
14
14
7
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, ORANGE, CLAYEY SILT, MOIST
BT
CAVED DRY @ 10.1'
07/20
10+00.00
-C2-
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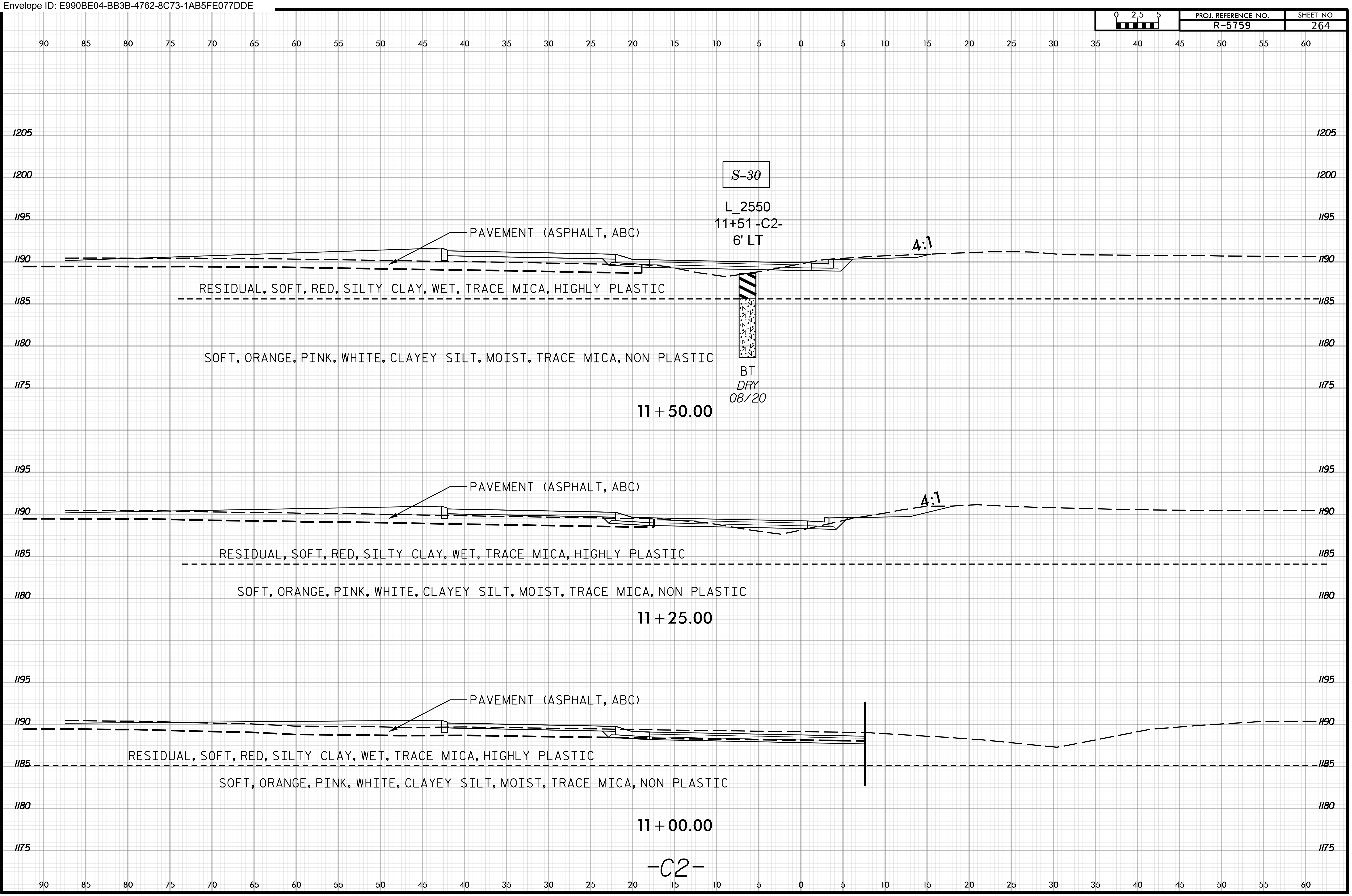
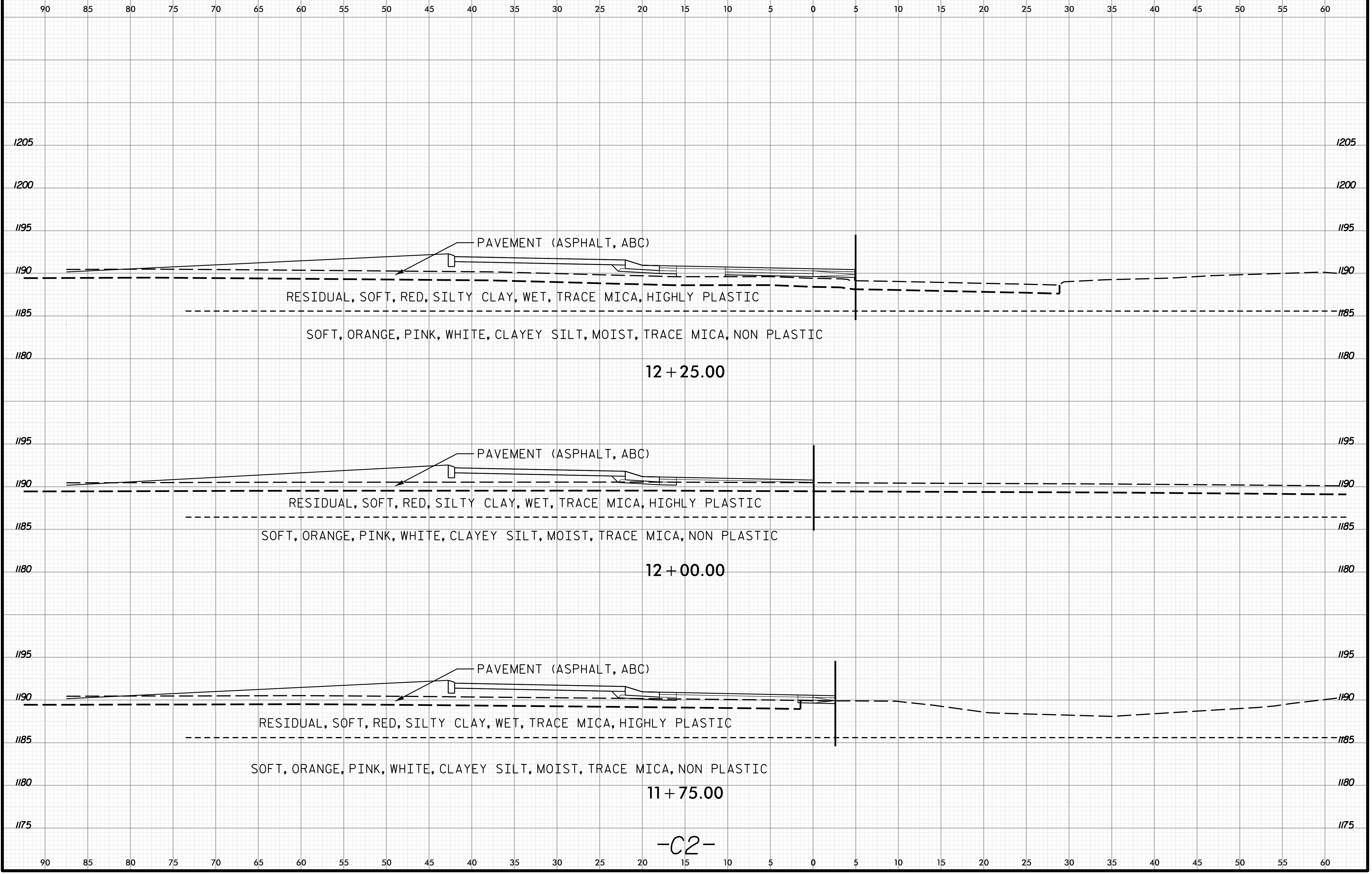
1195 1190 1185 1180 1205 1175 1170


0 2.5 5
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60
1205
1200
1195
1190
1185
1180
1175
S-30
L_2550
11+51 -C2-
6' LT
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
BT
DRY
08/20
11+50.00
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
11+25.00
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
11+00.00
-C2-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	265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45
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55
60
1205
1200
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC

12+25.00

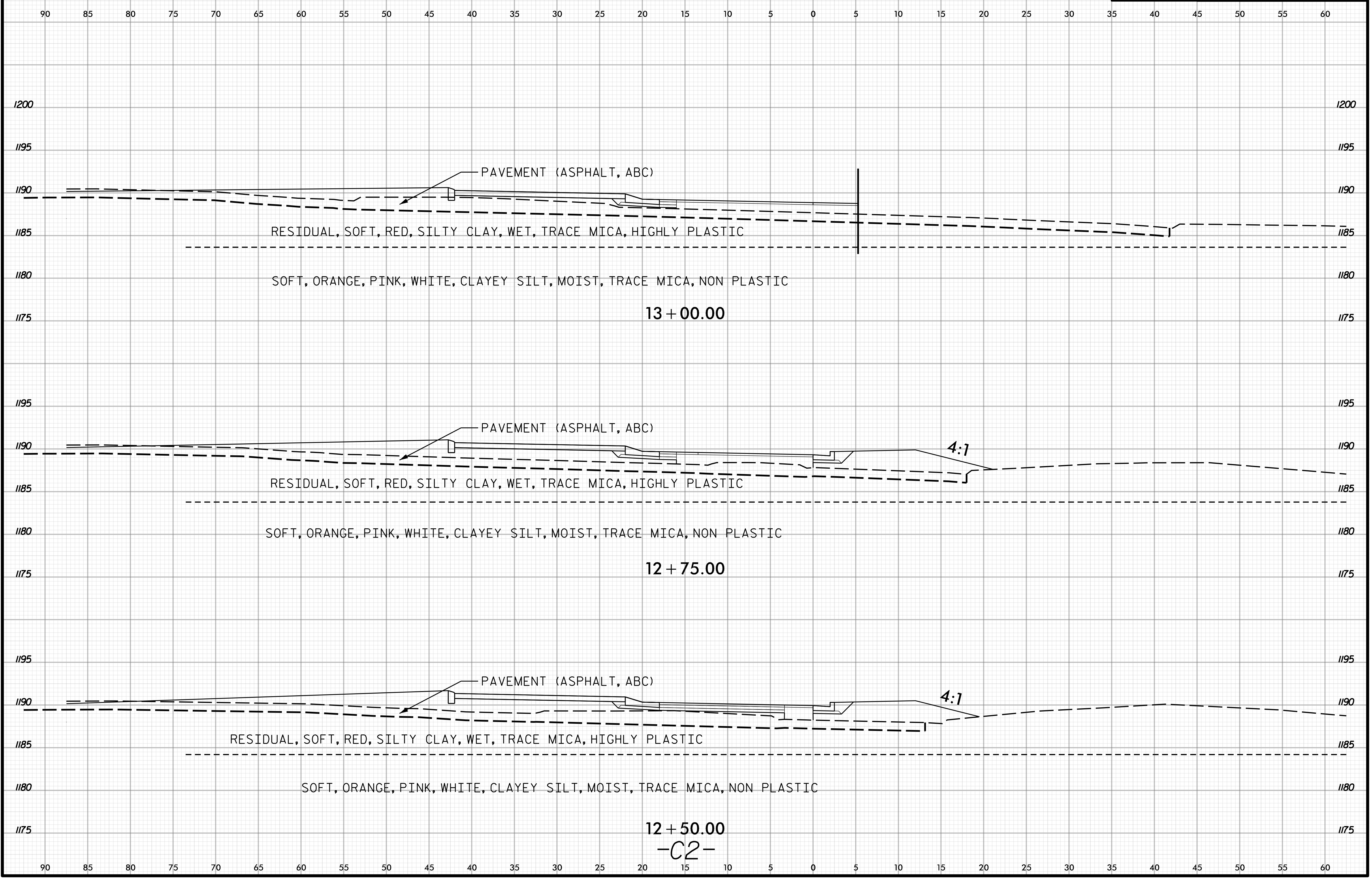
12+00.00

11+75.00

-C2-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	266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1200
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
13+00.00
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
12+75.00
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
12+50.00
-C2-
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

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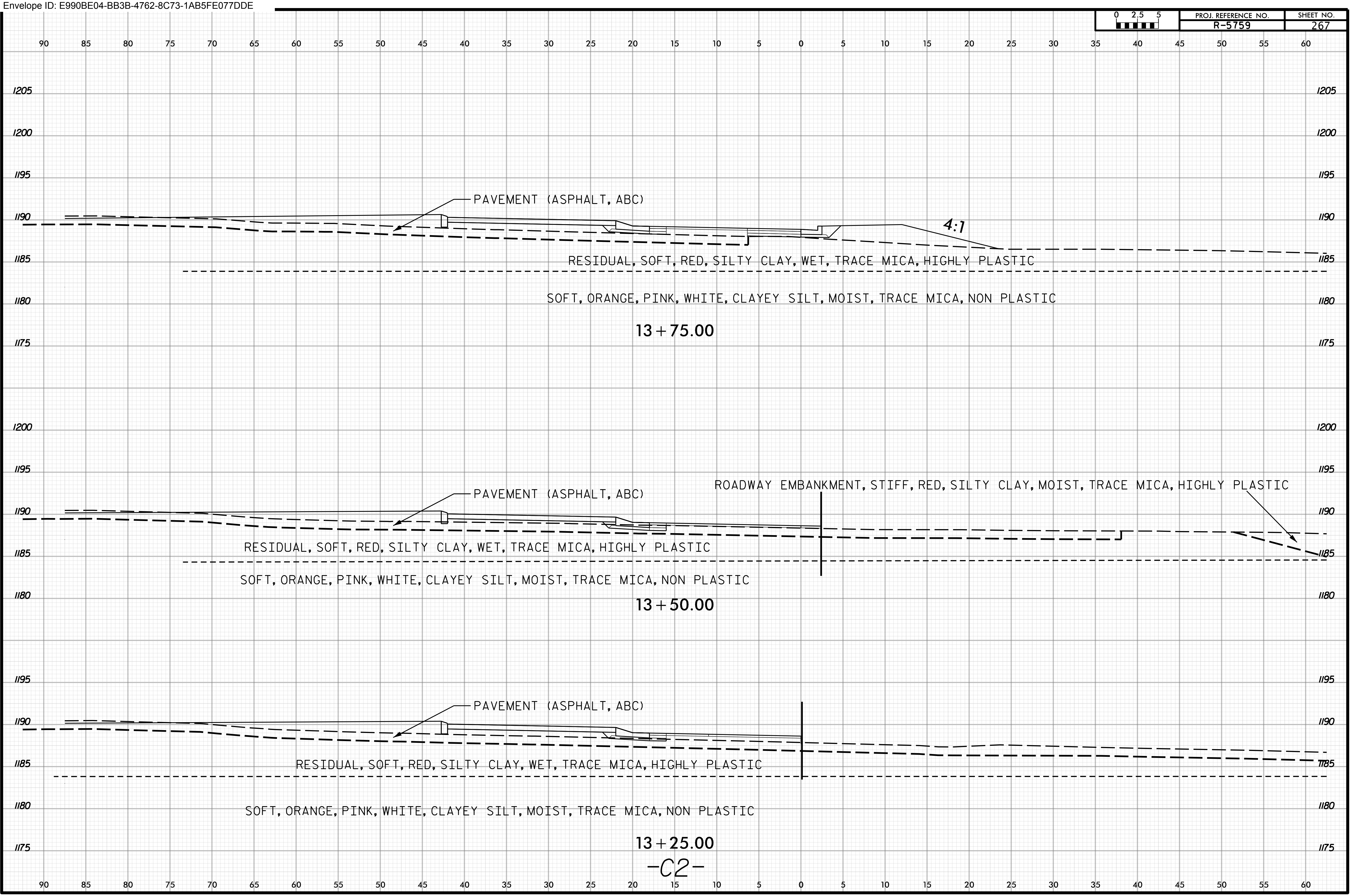
mlhartman AT W007005069

PROJ. REFERENCE NO.	SHEET NO.
R-5759	267

6/23/16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1205
1200
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
13+75.00
1200
1195
1190
1185
1180
PAVEMENT (ASPHALT, ABC)
ROADWAY EMBANKMENT, STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
13+50.00
1195
1190
1185
1180
1175
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
13+25.00
-C2-
90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

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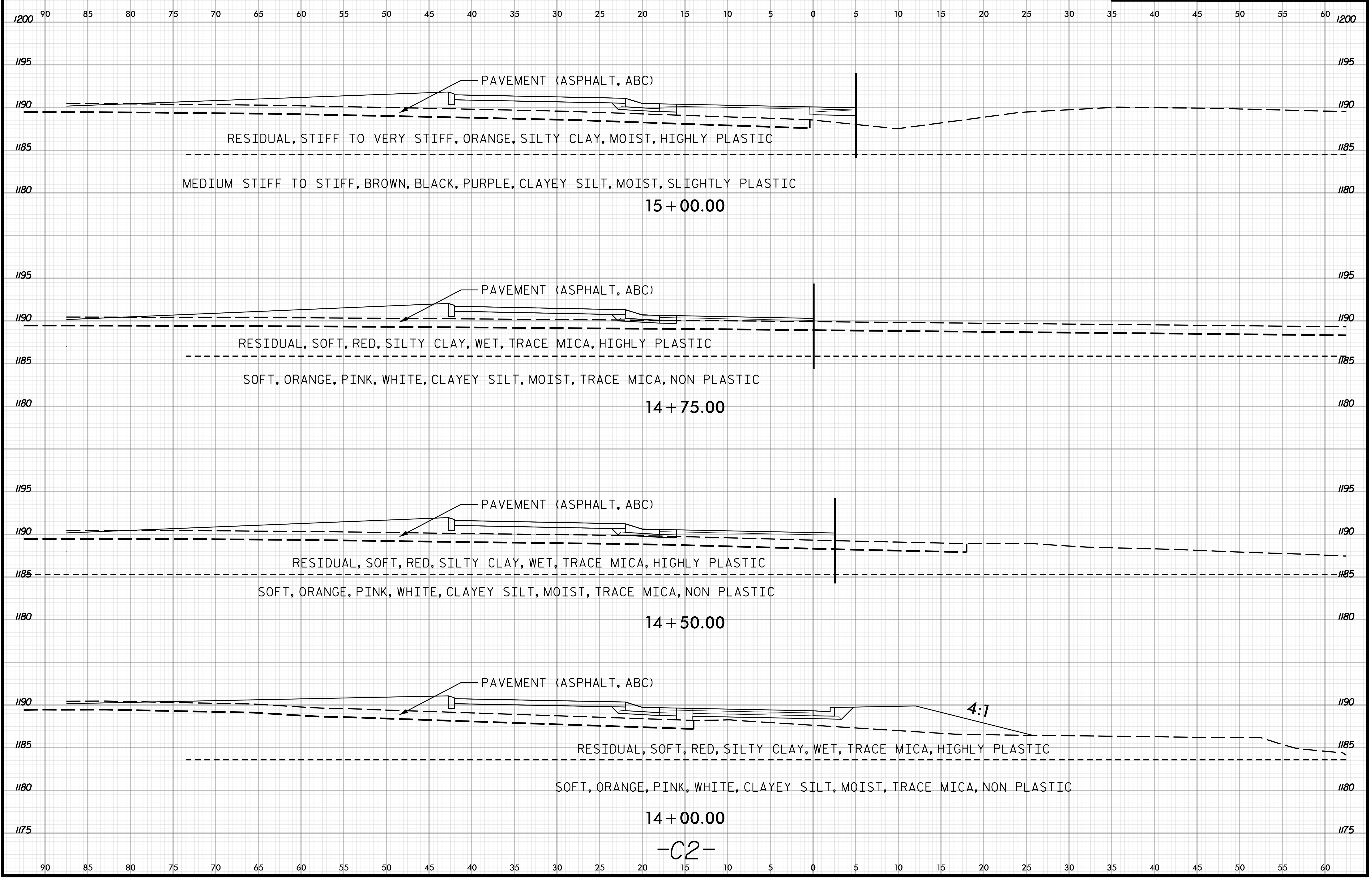
mlhartman AT W0070050699

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	268


PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, CLAYEY SILT, MOIST, SLIGHTLY PLASTIC
15+00.00
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
14+75.00
PAVEMENT (ASPHALT, ABC)
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
14+50.00
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, SOFT, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, ORANGE, PINK, WHITE, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
14+00.00
1200
1195
1190
1185
1180
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90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

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28-AUG-2024 13:20
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mlhartman AT W0070050699

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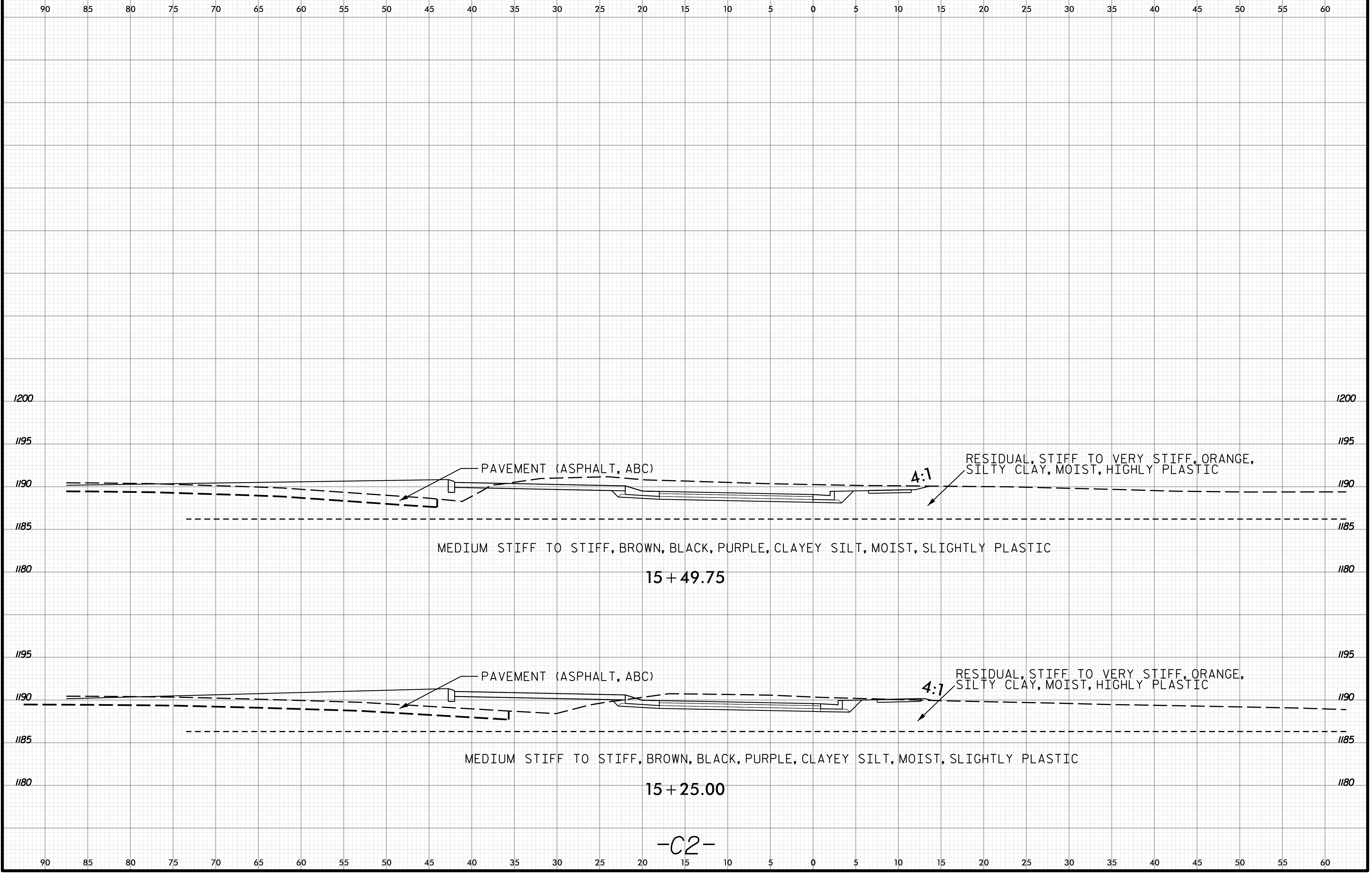
	R-5759	269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45
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55
60
1200
1195
1190
1185
1180
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, CLAYEY SILT, MOIST, SLIGHTLY PLASTIC
15+49.75
1195
1190
1185
1180
PAVEMENT (ASPHALT, ABC)
4:1
RESIDUAL, STIFF TO VERY STIFF, ORANGE, SILTY CLAY, MOIST, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, BROWN, BLACK, PURPLE, CLAYEY SILT, MOIST, SLIGHTLY PLASTIC
15+25.00

-C2-

28-AUG-2024 13:20
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mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
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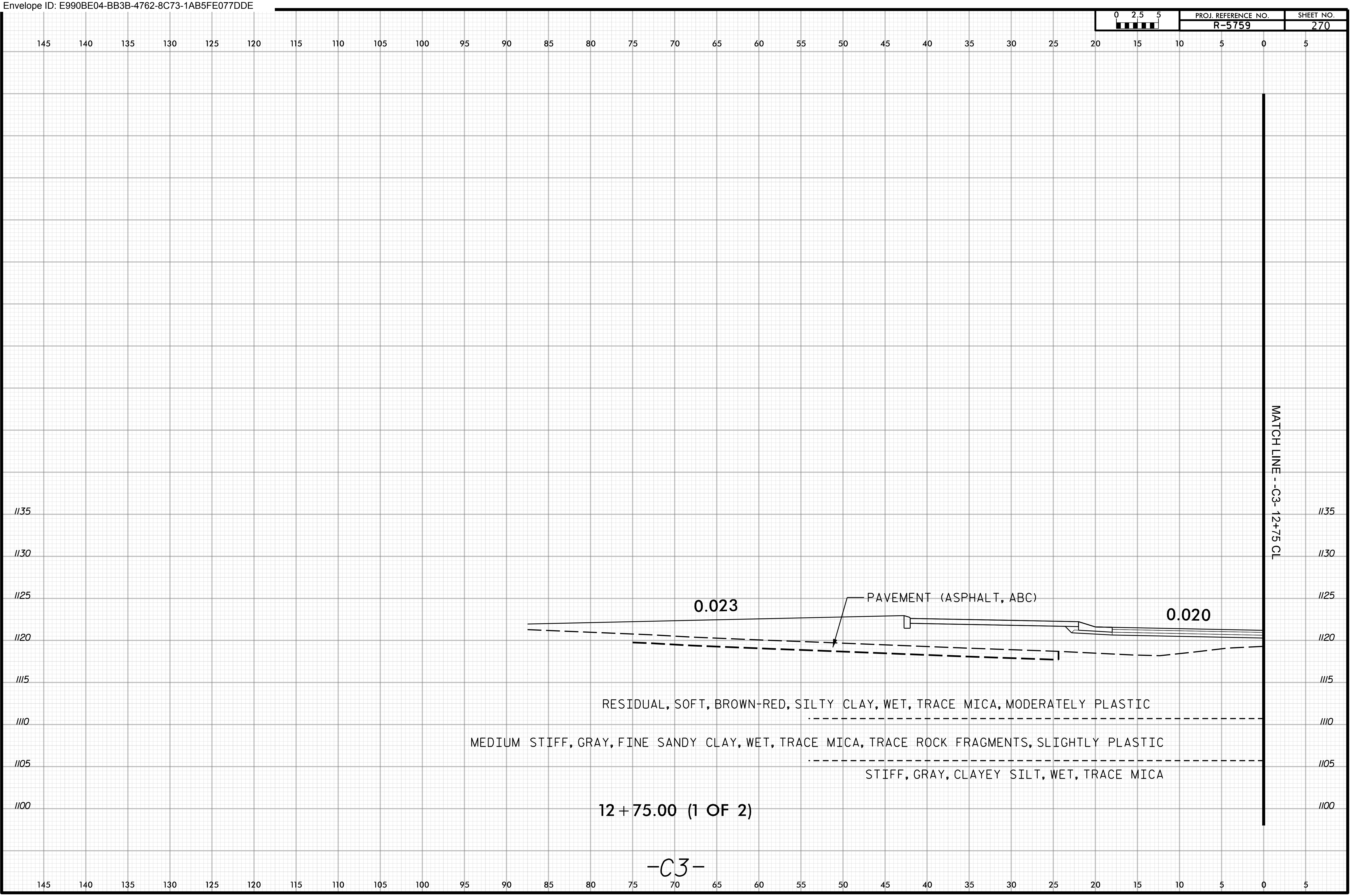

0 2.5 5
145 140 135 130 125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5
1135
1130
1125
1120
1115
1110
1105
1100
MATCH LINE - -C3- 12+75 CL
0.023
PAVEMENT (ASPHALT, ABC)
0.020
RESIDUAL, SOFT, BROWN-RED, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
MEDIUM STIFF, GRAY, FINE SANDY CLAY, WET, TRACE MICA, TRACE ROCK FRAGMENTS, SLIGHTLY PLASTIC
STIFF, GRAY, CLAYEY SILT, WET, TRACE MICA

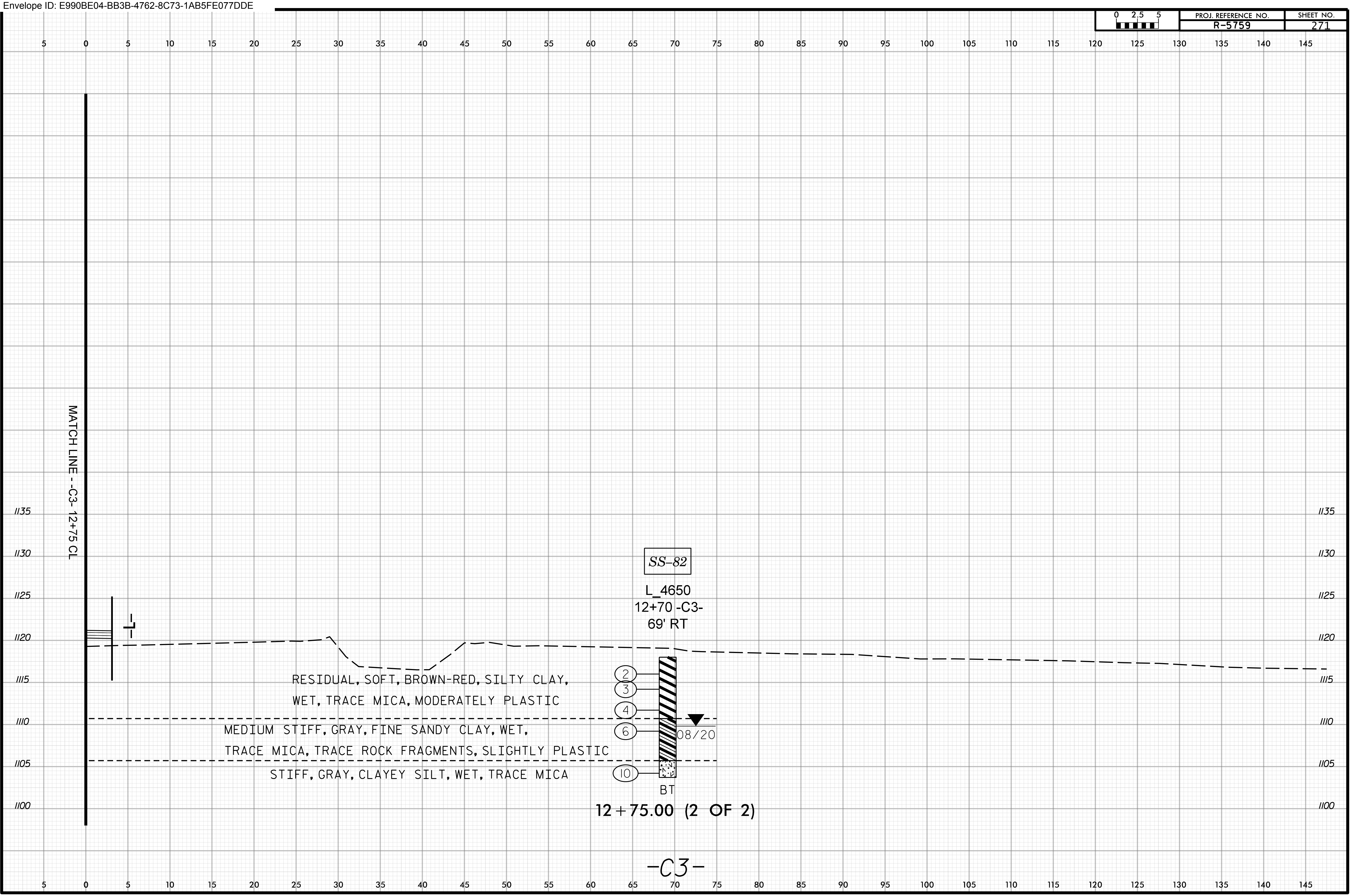
12+75.00 (1 OF 2)

-C3-

6/23/16

28-AUG-2024 13:20
N:\Projects\2018\70185317\R5759\R5759_GEO_RDWY_REV\CADD_GEOTECH\xsc\R5759_GEO_RDY_XSI_C3.dgn
mlhartman AT W0070050699

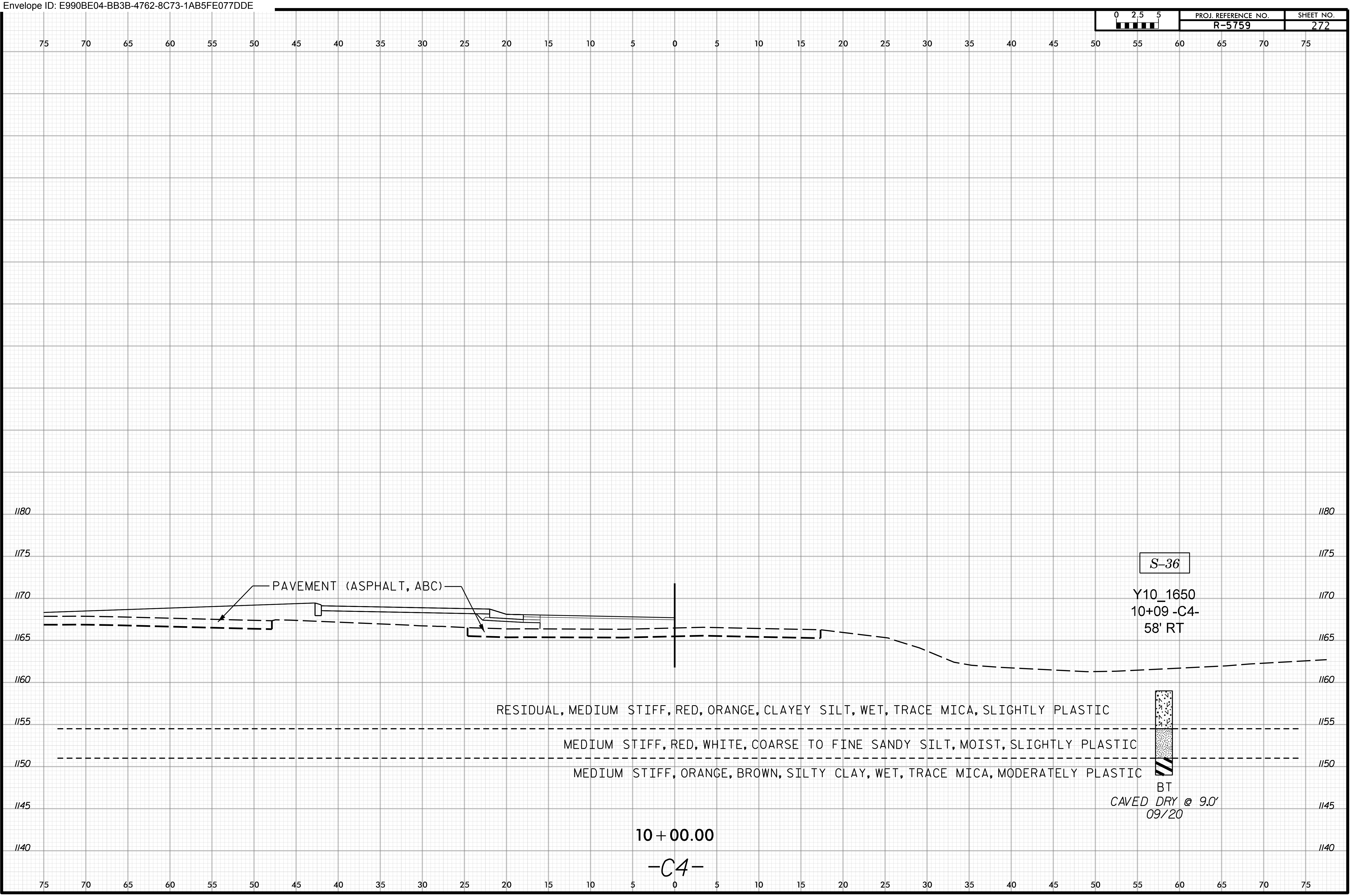
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	271


MATCH LINE - -C3- 12+75 CL
SS-82
L_4650
12+70 -C3-
69' RT
RESIDUAL, SOFT, BROWN-RED, SILTY CLAY,
WET, TRACE MICA, MODERATELY PLASTIC
MEDIUM STIFF, GRAY, FINE SANDY CLAY, WET,
TRACE MICA, TRACE ROCK FRAGMENTS, SLIGHTLY PLASTIC
STIFF, GRAY, CLAYEY SILT, WET, TRACE MICA
2
3
4
6
10
08/20
BT
1135
1130
1125
1120
1115
1110
1105
1100
5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145

12+75.00 (2 OF 2)

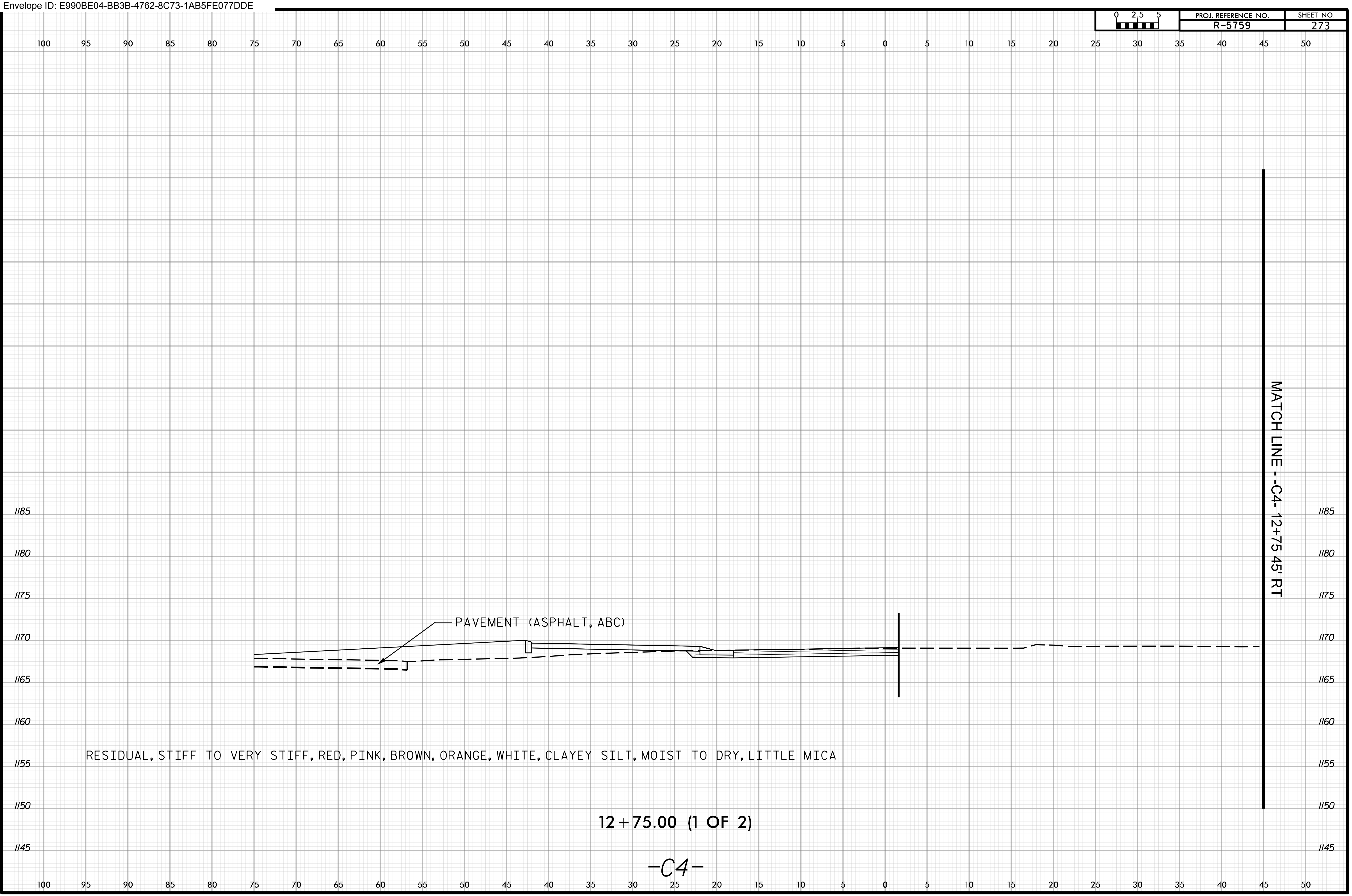
-C3-

PROJ. REFERENCE NO.	SHEET NO.
R-5759	272


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1180
1175
1170
1165
1160
1155
1150
1145
1140
PAVEMENT (ASPHALT, ABC)
S-36
Y10_1650
10+09 -C4-
58' RT
RESIDUAL, MEDIUM STIFF, RED, ORANGE, CLAYEY SILT, WET, TRACE MICA, SLIGHTLY PLASTIC
MEDIUM STIFF, RED, WHITE, COARSE TO FINE SANDY SILT, MOIST, SLIGHTLY PLASTIC
MEDIUM STIFF, ORANGE, BROWN, SILTY CLAY, WET, TRACE MICA, MODERATELY PLASTIC
BT
CAVED DRY @ 9.0'
09/20
10+00.00
-C4-

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	273


0
2.5
5
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
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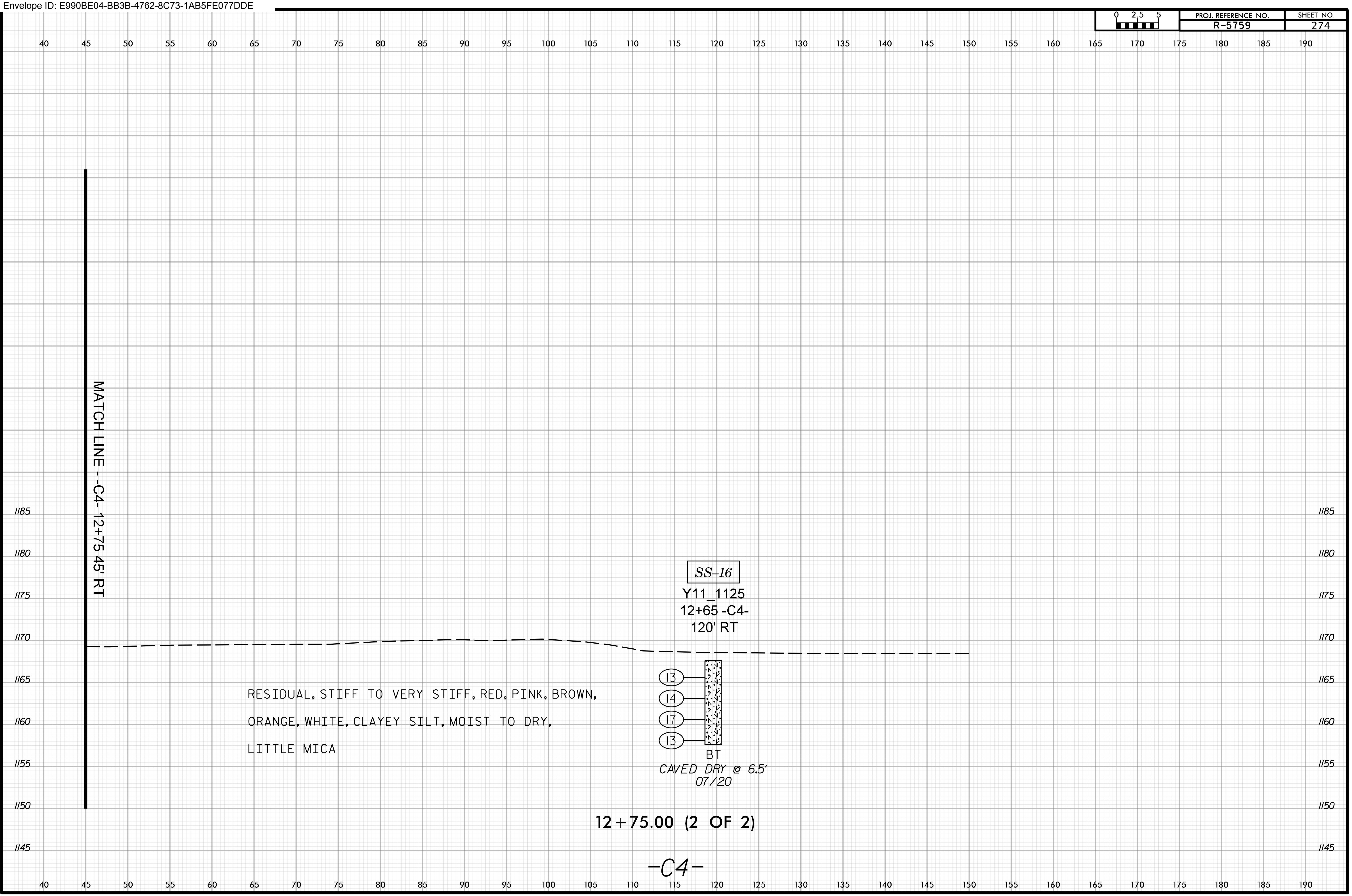
20
15
10
5
0
5
10
15
20
25
30
35
40
45
50
1185
1180
1175
1170
1165
1160
1155
1150
1145
MATCH LINE - -C4- 12+75 45' RT
PAVEMENT (ASPHALT, ABC)
RESIDUAL, STIFF TO VERY STIFF, RED, PINK, BROWN, ORANGE, WHITE, CLAYEY SILT, MOIST TO DRY, LITTLE MICA

12 + 75.00 (1 OF 2)

-C4-

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5759	274



12 + 75.00 (2 OF 2)

-C4-

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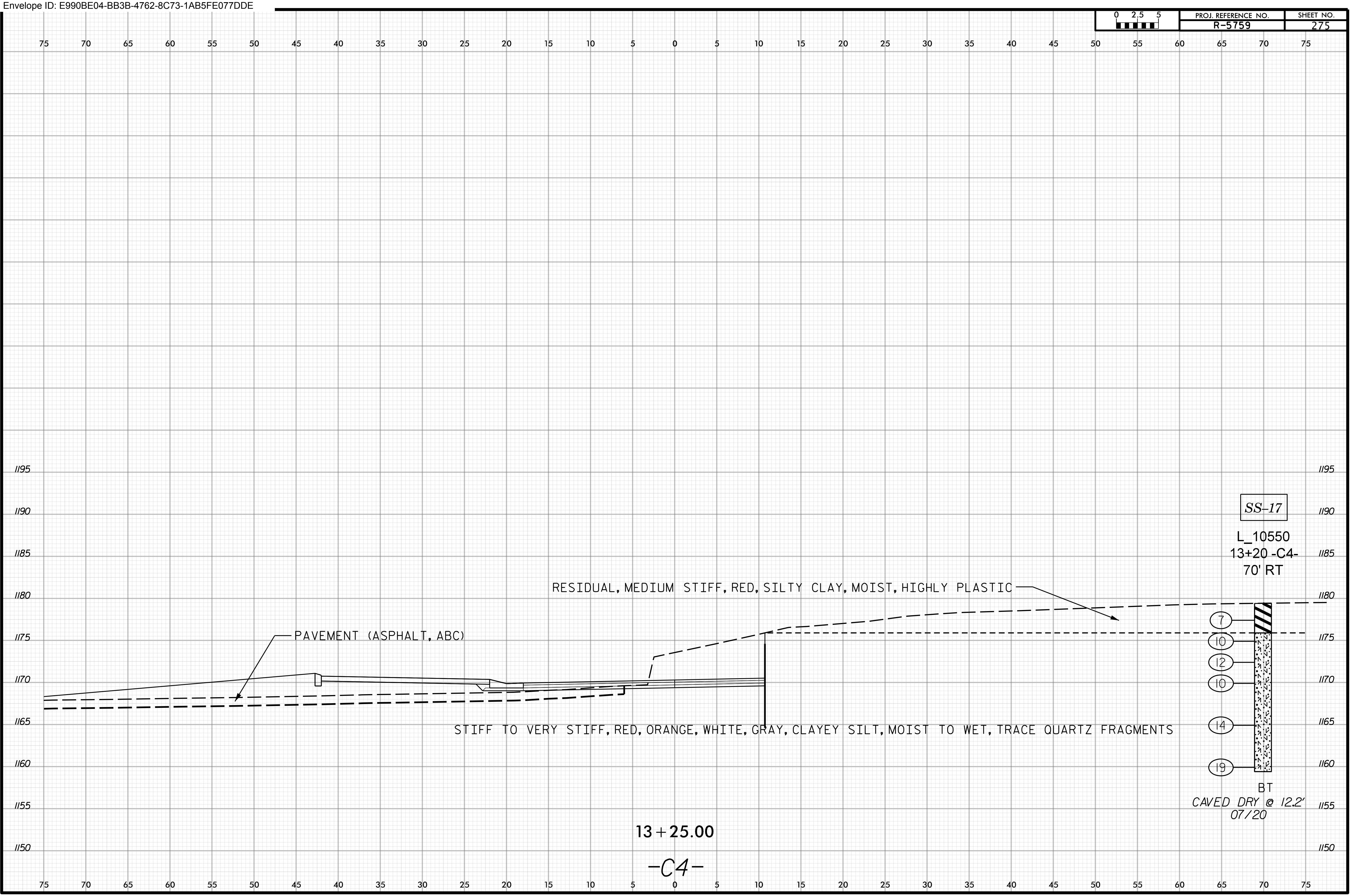
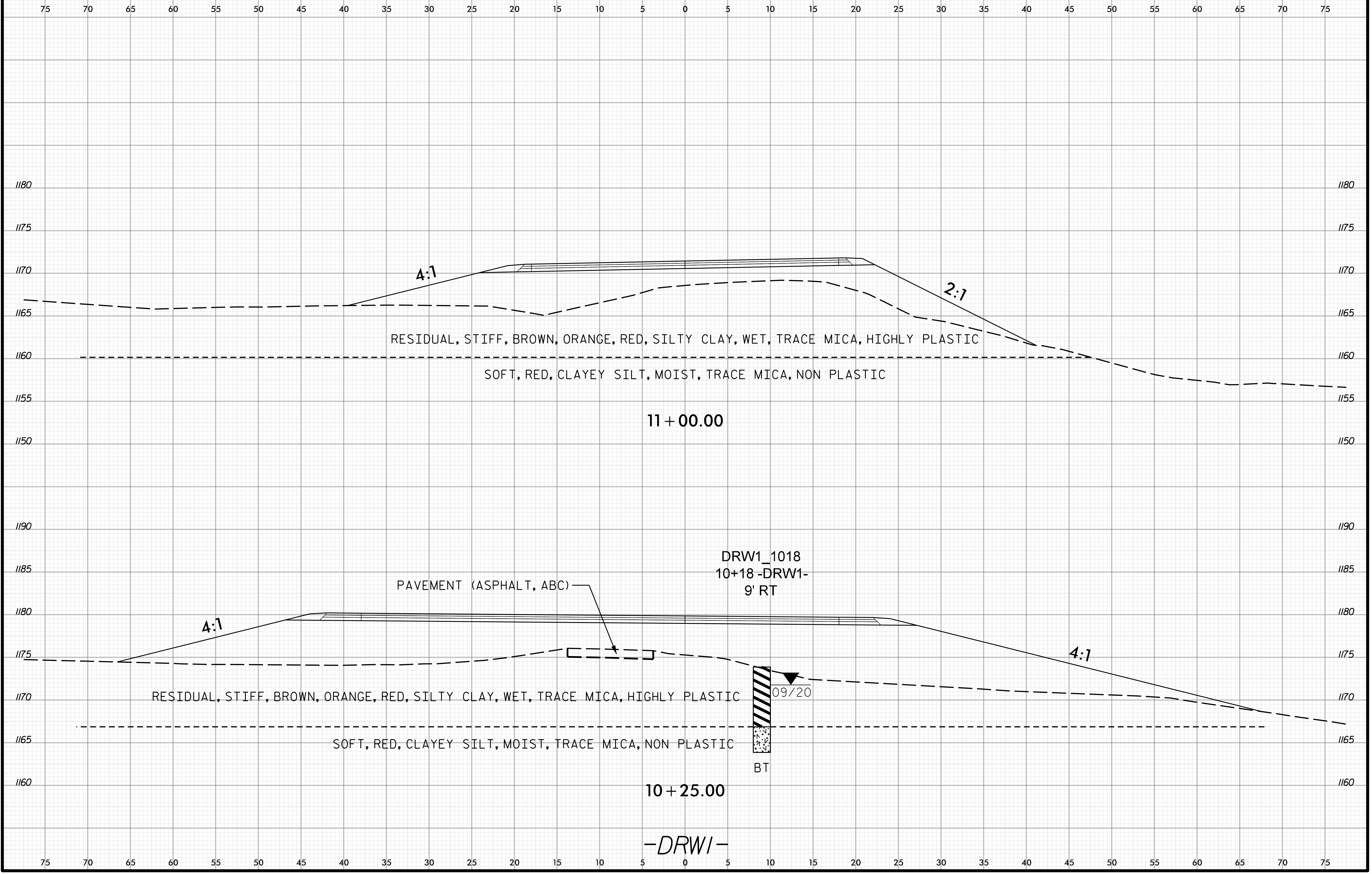
mlhartman AT W0070050699

PROJ. REFERENCE NO.	SHEET NO.
R-5759	275



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	276


75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1180
1175
1170
1165
1160
1155
1150
4:1
2:1
RESIDUAL, STIFF, BROWN, ORANGE, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
11+00.00
1190
1185
1180
1175
1170
1165
1160
DRW1_1018
10+18 -DRW1-
9' RT
PAVEMENT (ASPHALT, ABC)
4:1
4:1
09/20
RESIDUAL, STIFF, BROWN, ORANGE, RED, SILTY CLAY, WET, TRACE MICA, HIGHLY PLASTIC
SOFT, RED, CLAYEY SILT, MOIST, TRACE MICA, NON PLASTIC
BT
10+25.00
-DRW1-

14-AUG-2024 10:42
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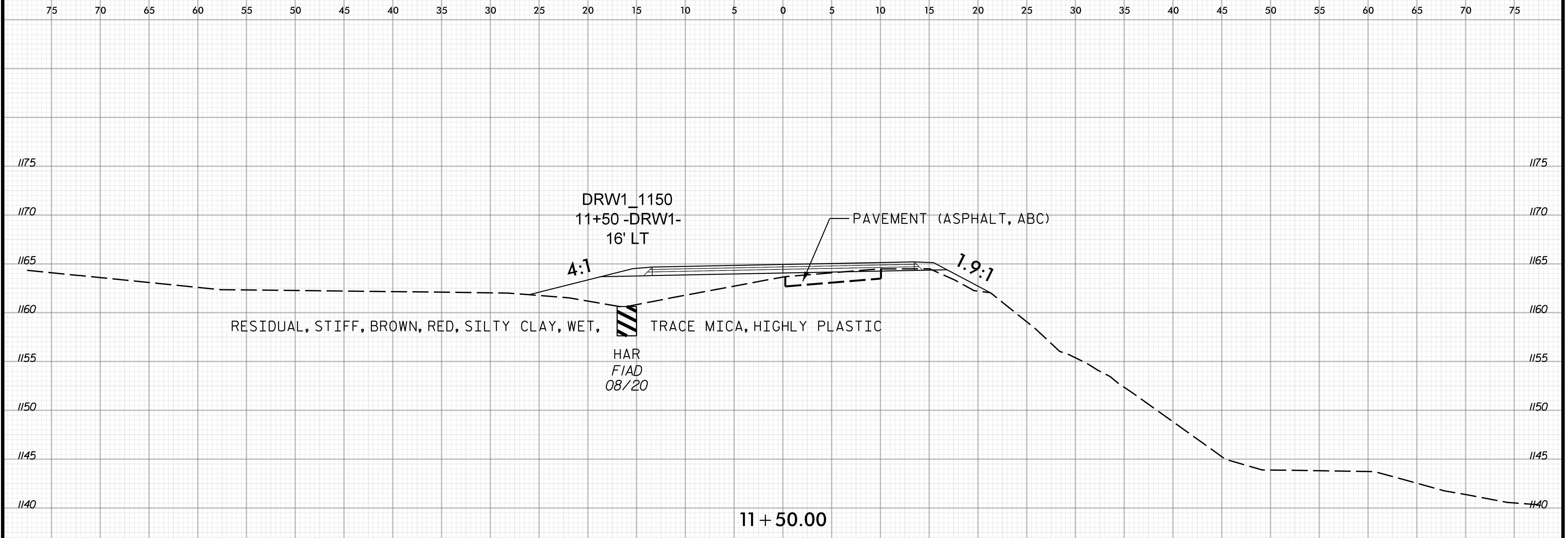
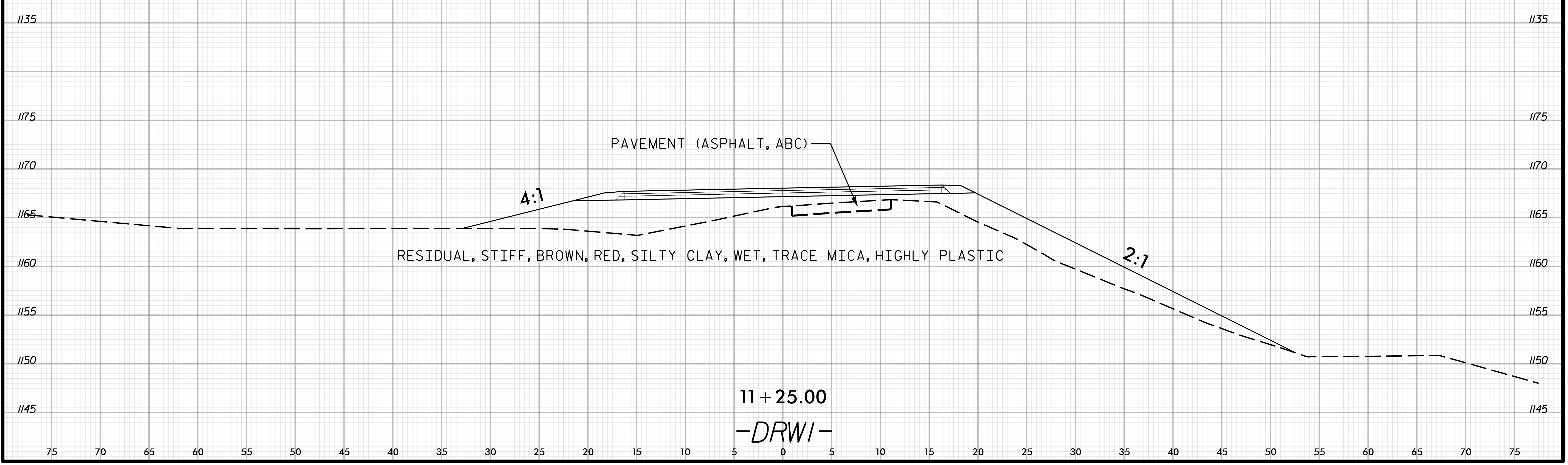
mlhartman AT W007000050699

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	277



11+50.00



11+25.00

-DRW1-

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
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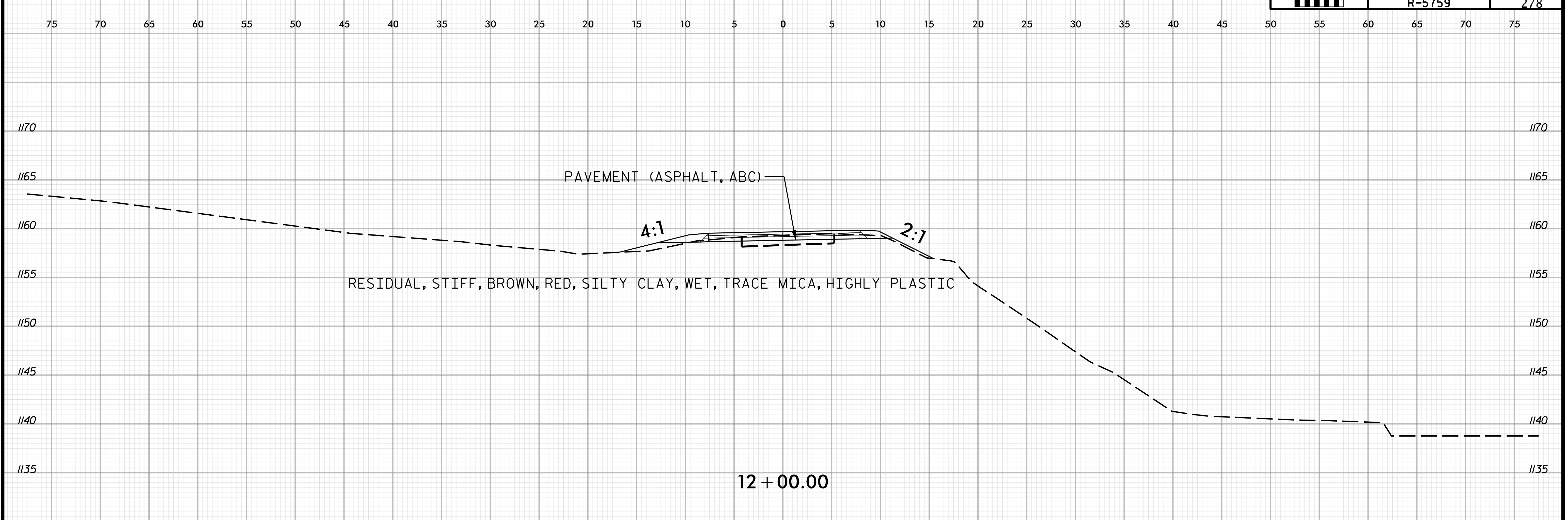
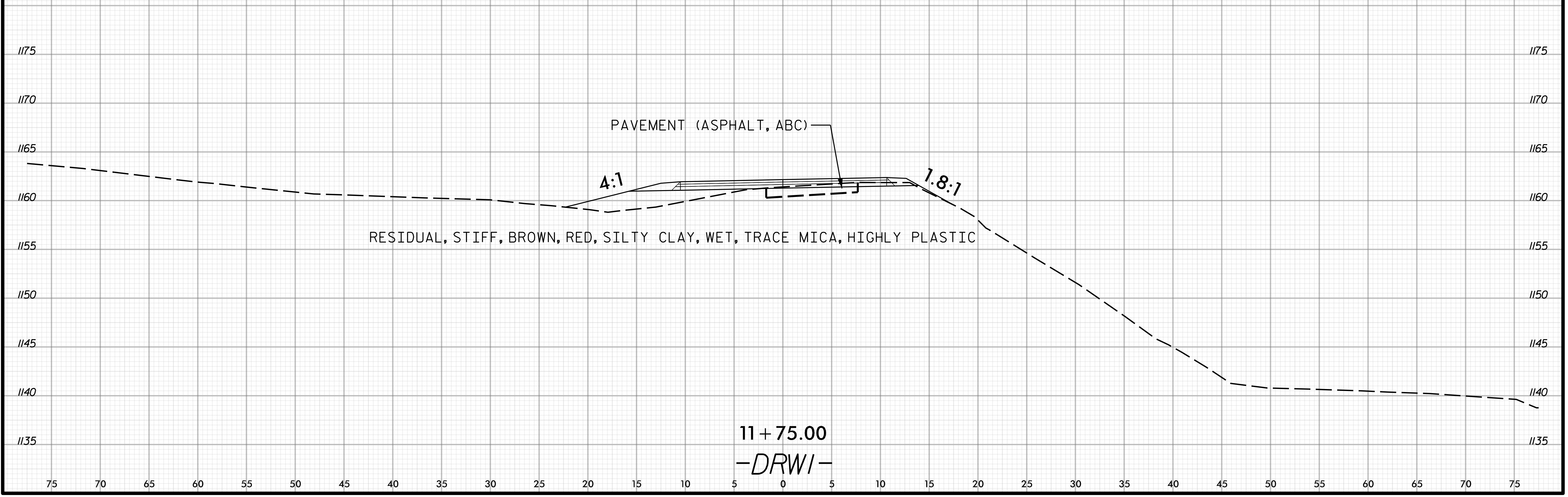


12+00.00



11+75.00

-DRW1-

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mlhartman AT W0070050699

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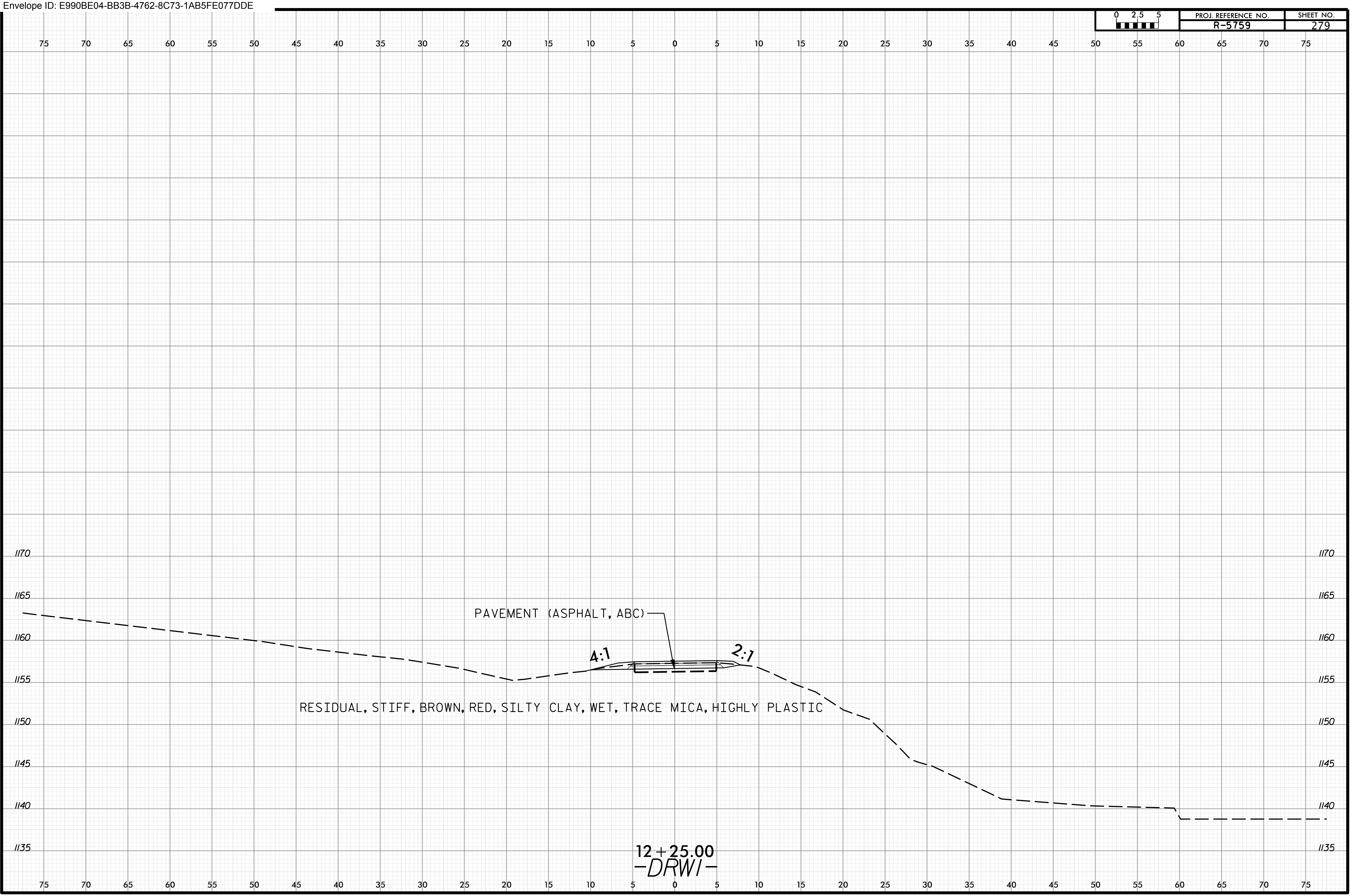
	R-5759	279



12+25.00
-DRW1-

6/23/16

14-AUG-2024 10:42
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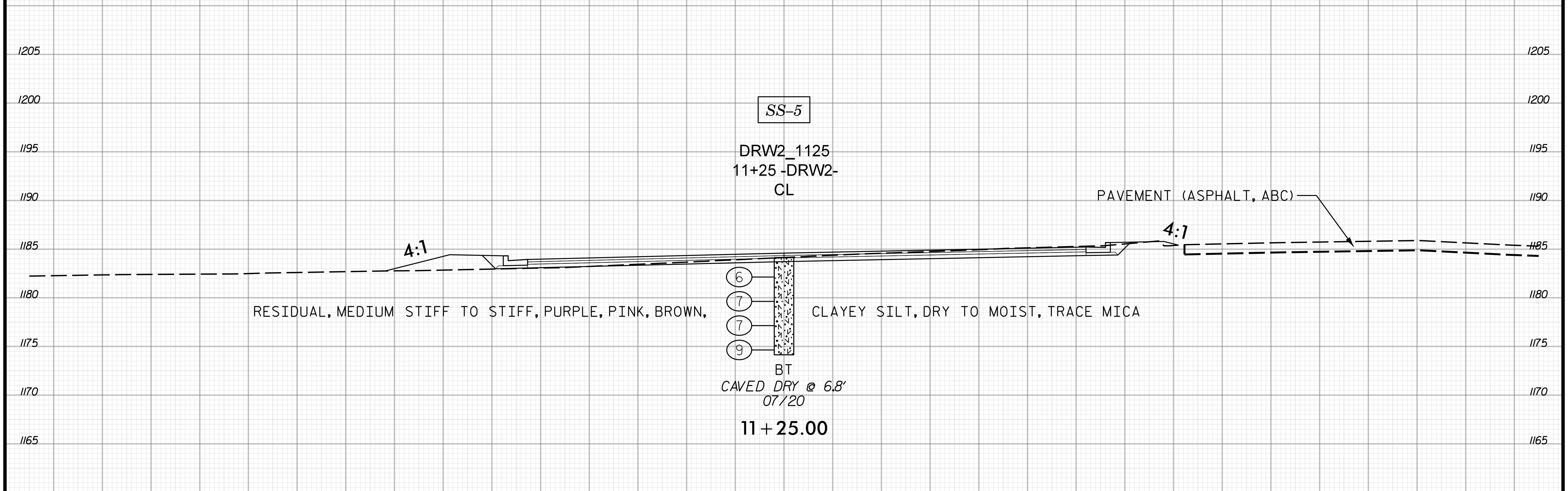

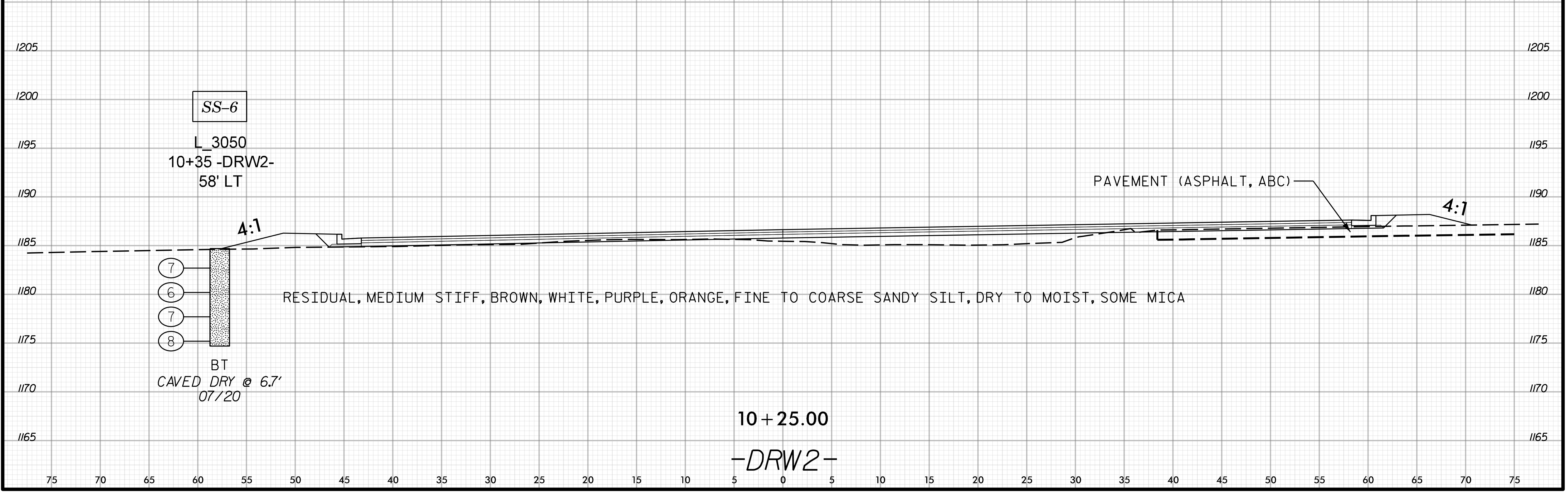

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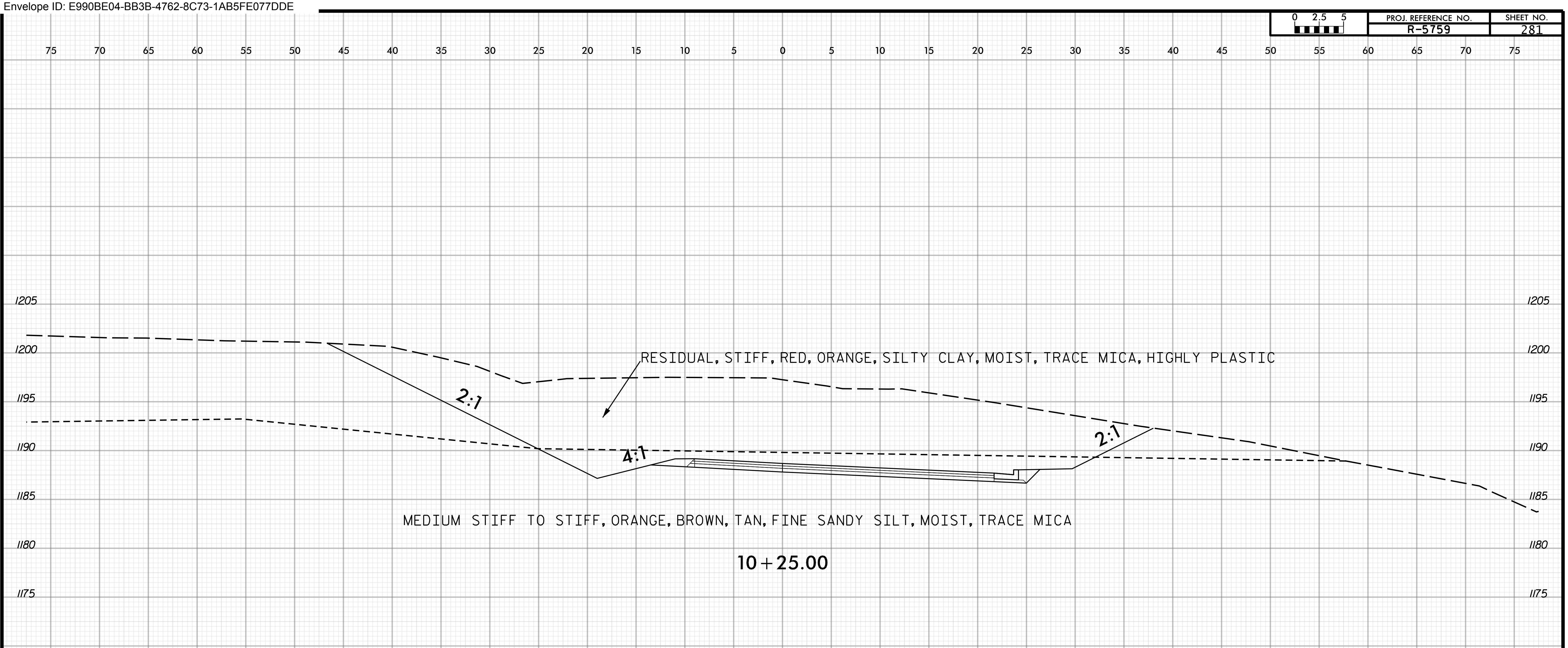
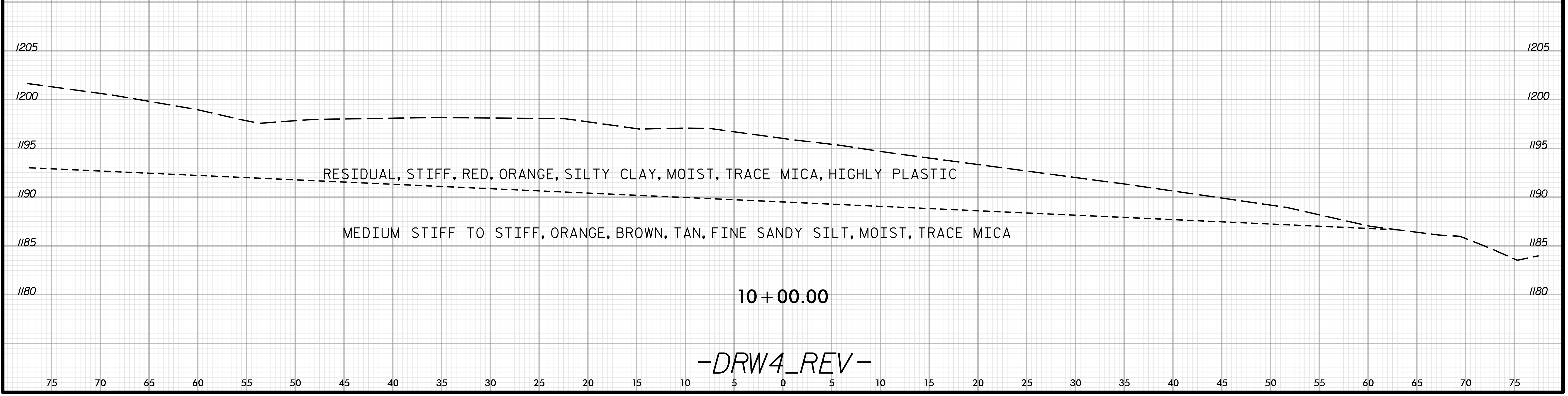

0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1205
1200
1195
1190
1185
1180
1175
2:1
4:1
2:1
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA

10+25.00


1205
1200
1195
1190
1185
1180
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

10+00.00

-DRW4_REV-

6/23/16

14-AUG-2024 10:43
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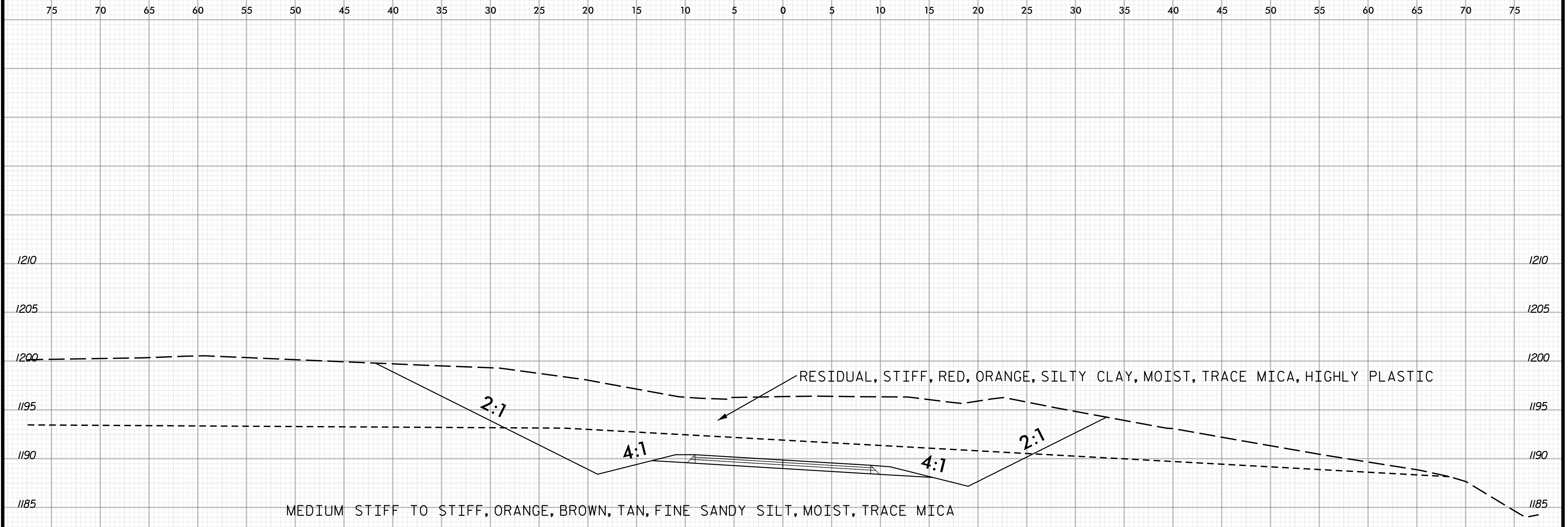
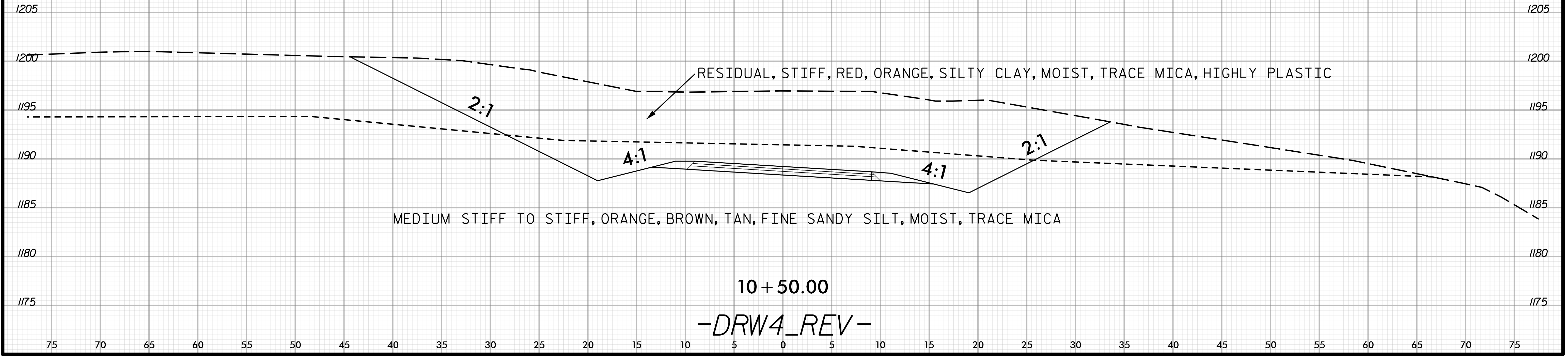


RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA

10 + 75.00



RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC

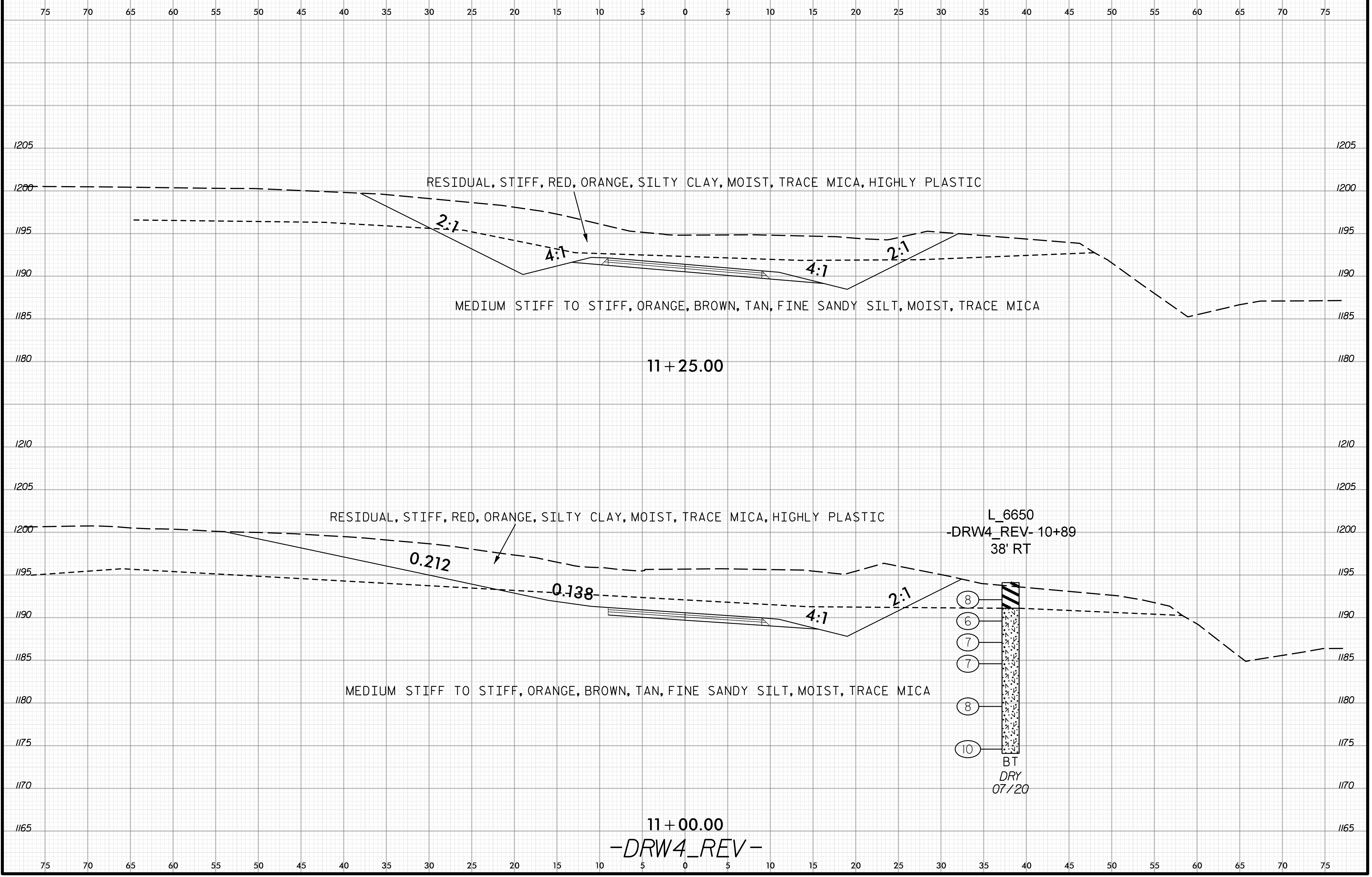
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA

10 + 50.00

-DRW4_REV-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5759	283



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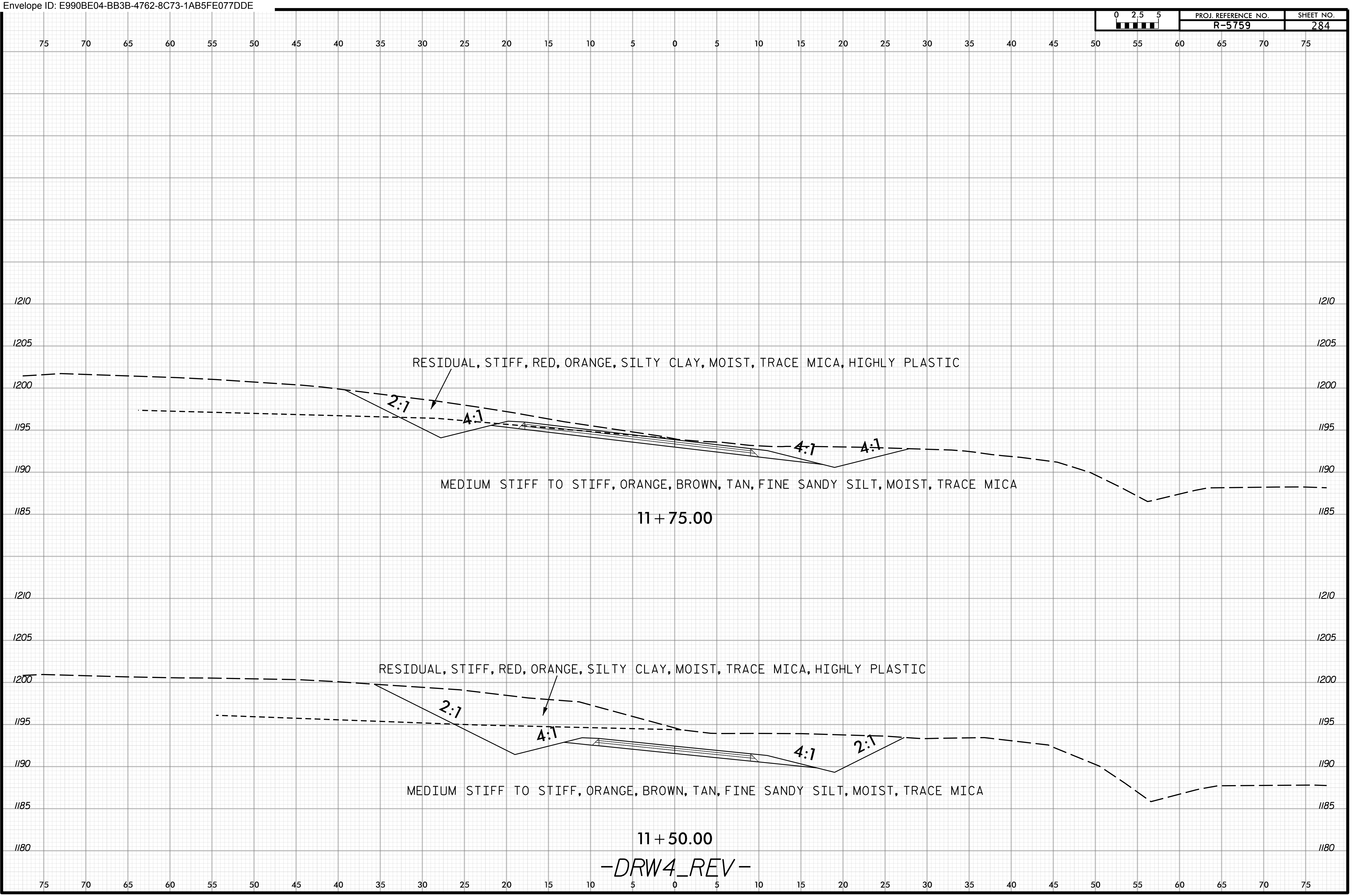
0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1210
1205
1200
1195
1190
1185
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
4:1
4:1
4:1
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA
11+75.00
1210
1205
1200
1195
1190
1185
1180
RESIDUAL, STIFF, RED, ORANGE, SILTY CLAY, MOIST, TRACE MICA, HIGHLY PLASTIC
2:1
4:1
4:1
2:1
MEDIUM STIFF TO STIFF, ORANGE, BROWN, TAN, FINE SANDY SILT, MOIST, TRACE MICA
11+50.00

-DRW4_REV-

6/23/16

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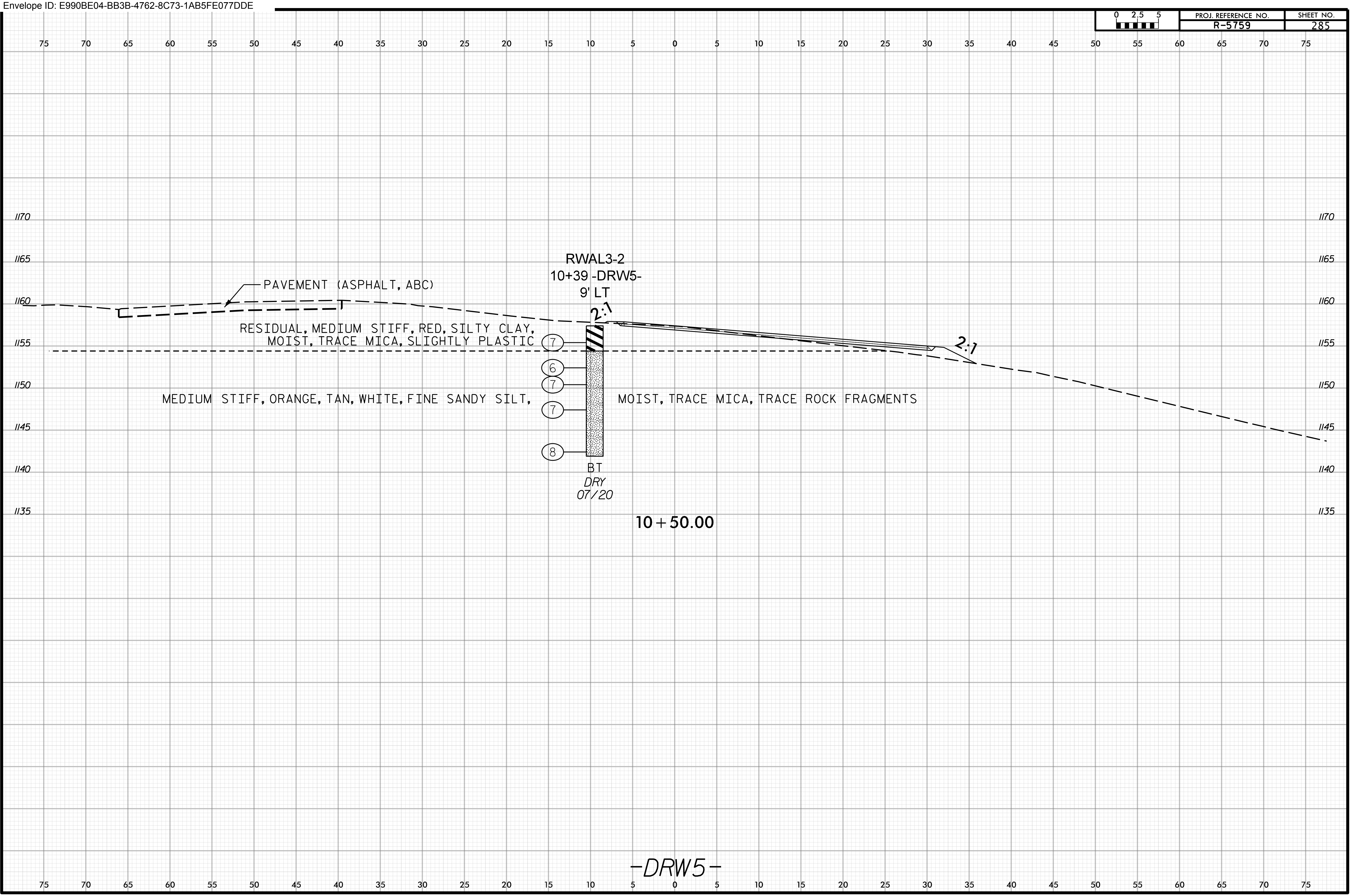

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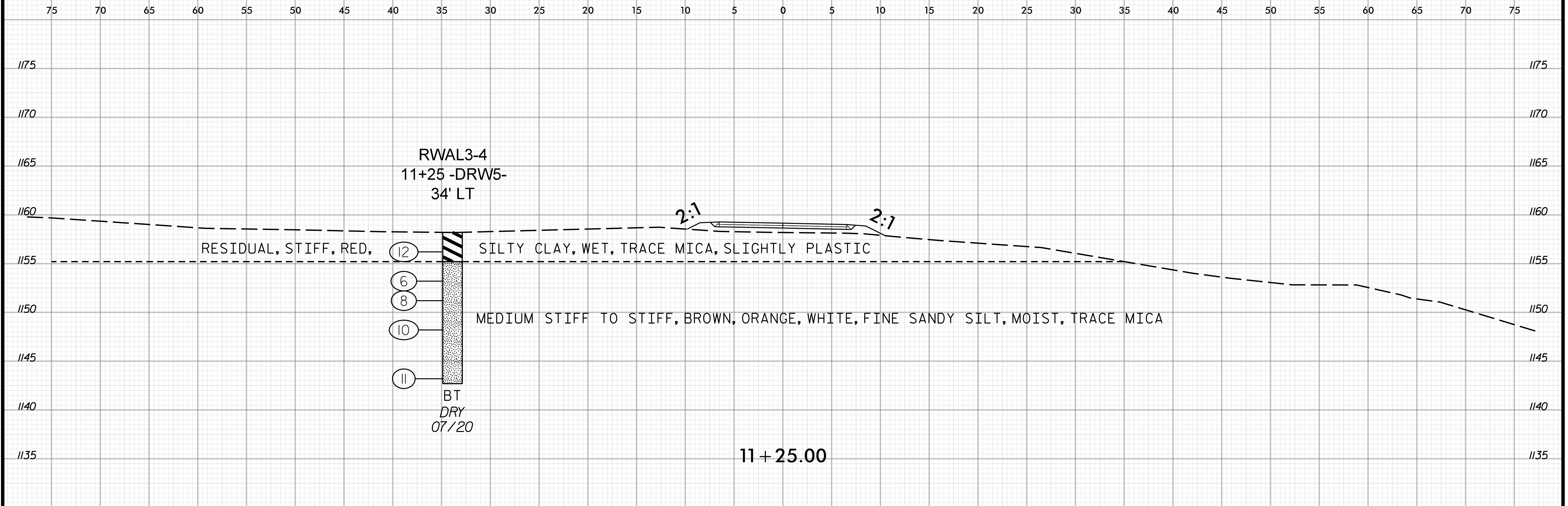
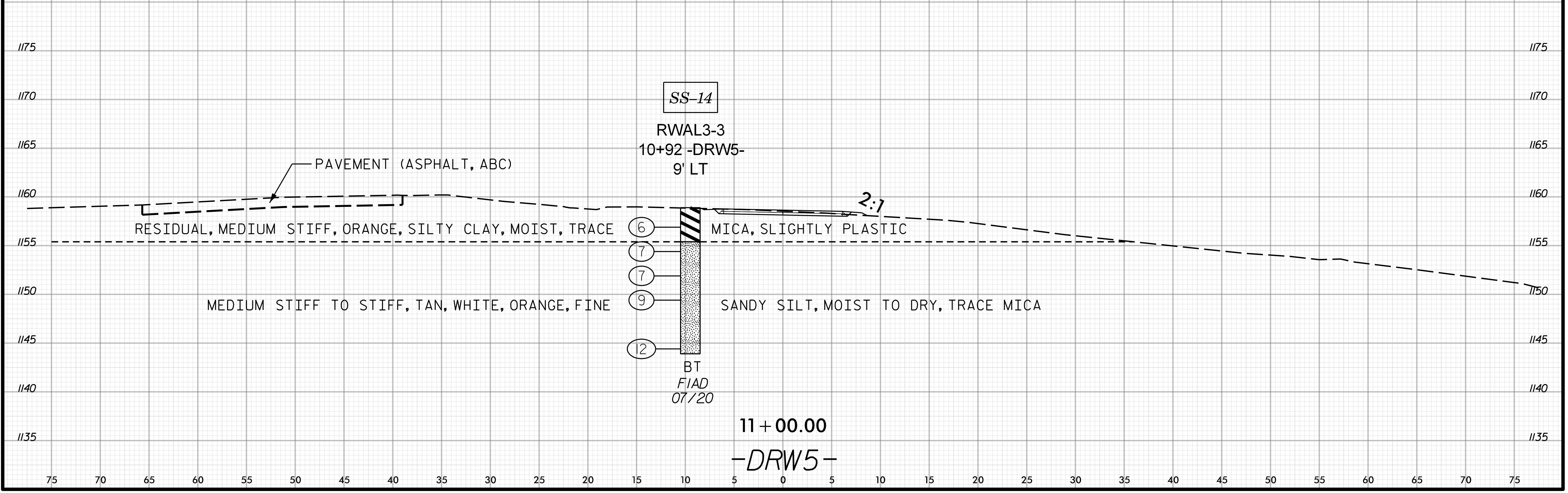
PROJ. REFERENCE NO.	SHEET NO.
R-5759	286

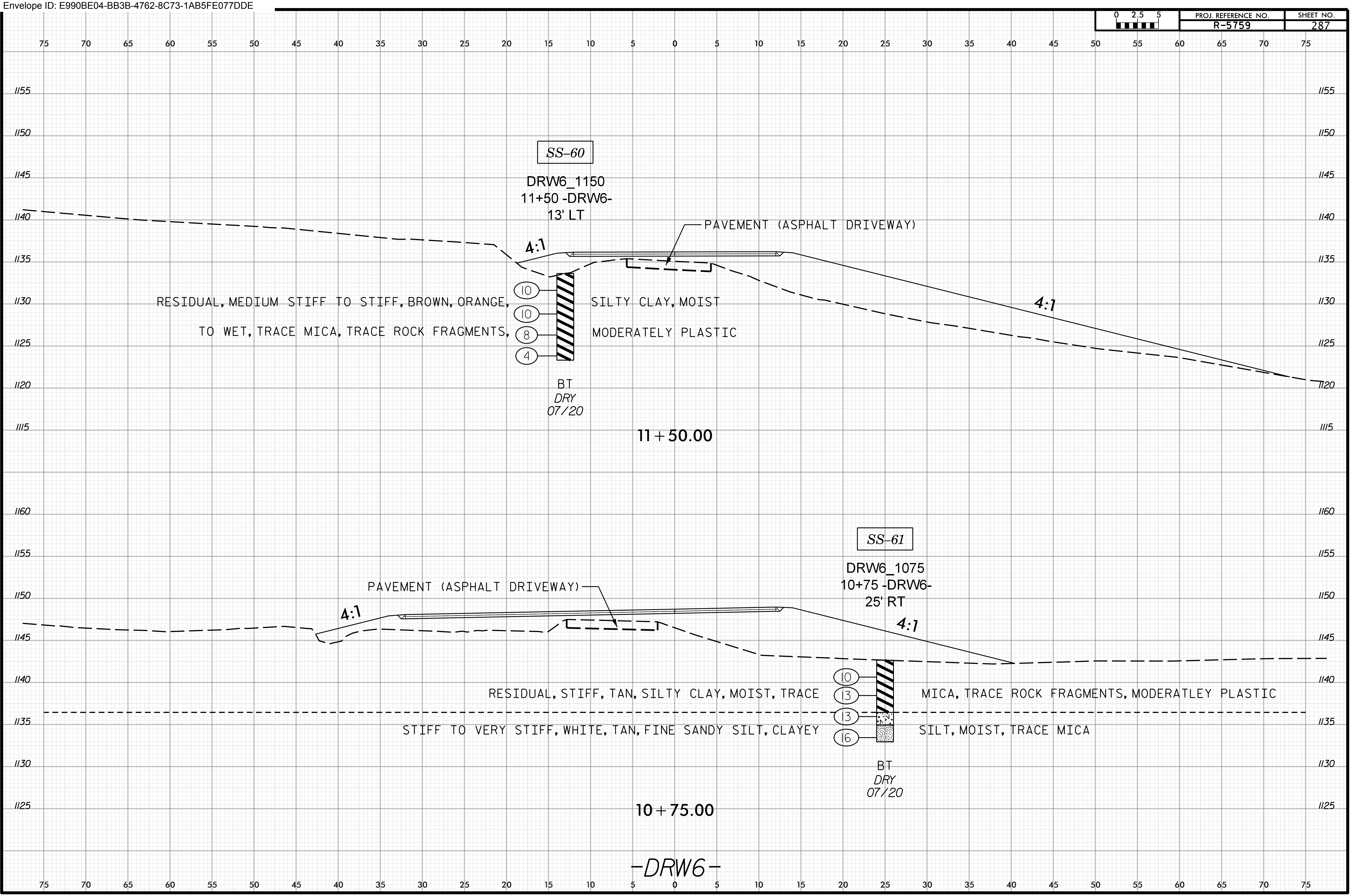


11+25.00



11+00.00

-DRW5-


0 2.5 5
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
1155
1150
1145
1140
1135
1130
1125
1120
1115
SS-60
DRW6_1150
11+50 -DRW6-
13' LT
PAVEMENT (ASPHALT DRIVEWAY)
4:1
4:1
10
10
8
4
RESIDUAL, MEDIUM STIFF TO STIFF, BROWN, ORANGE, SILTY CLAY, MOIST
TO WET, TRACE MICA, TRACE ROCK FRAGMENTS, MODERATELY PLASTIC
BT
DRY
07/20
11+50.00
1160
1155
1150
1145
1140
1135
1130
1125
SS-61
DRW6_1075
10+75 -DRW6-
25' RT
PAVEMENT (ASPHALT DRIVEWAY)
4:1
4:1
10
13
13
16
RESIDUAL, STIFF, TAN, SILTY CLAY, MOIST, TRACE MICA, TRACE ROCK FRAGMENTS, MODERATLEY PLASTIC
STIFF TO VERY STIFF, WHITE, TAN, FINE SANDY SILT, CLAYEY SILT, MOIST, TRACE MICA
BT
DRY
07/20
10+75.00
-DRW6-
6/23/16
14-AUG-2024 10:43
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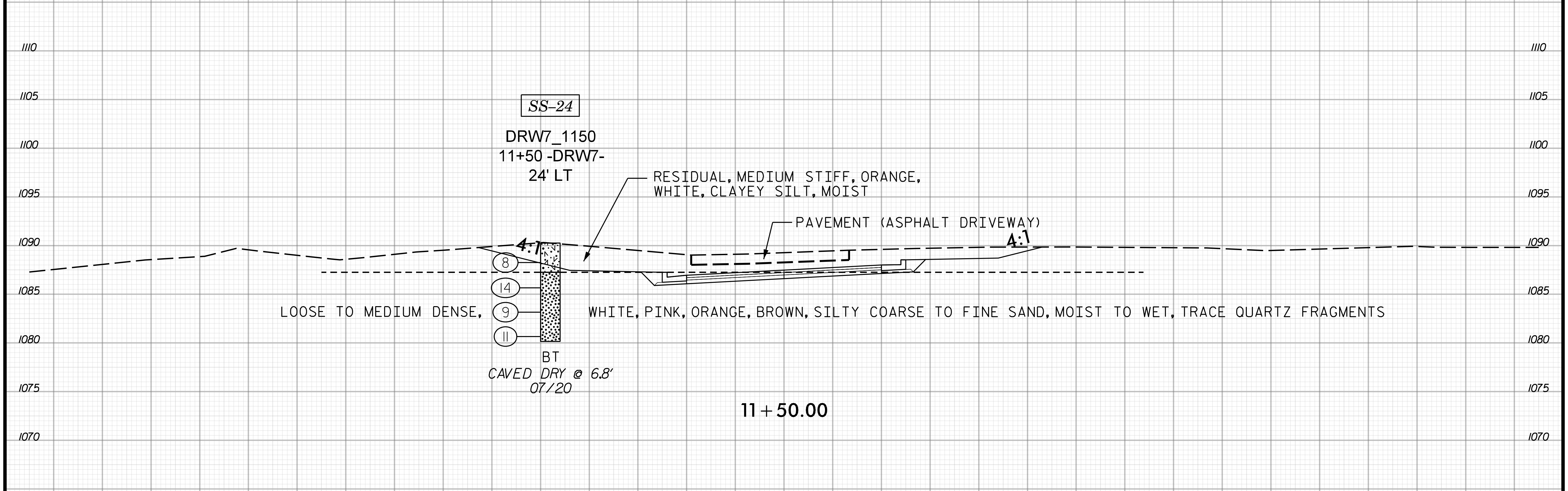
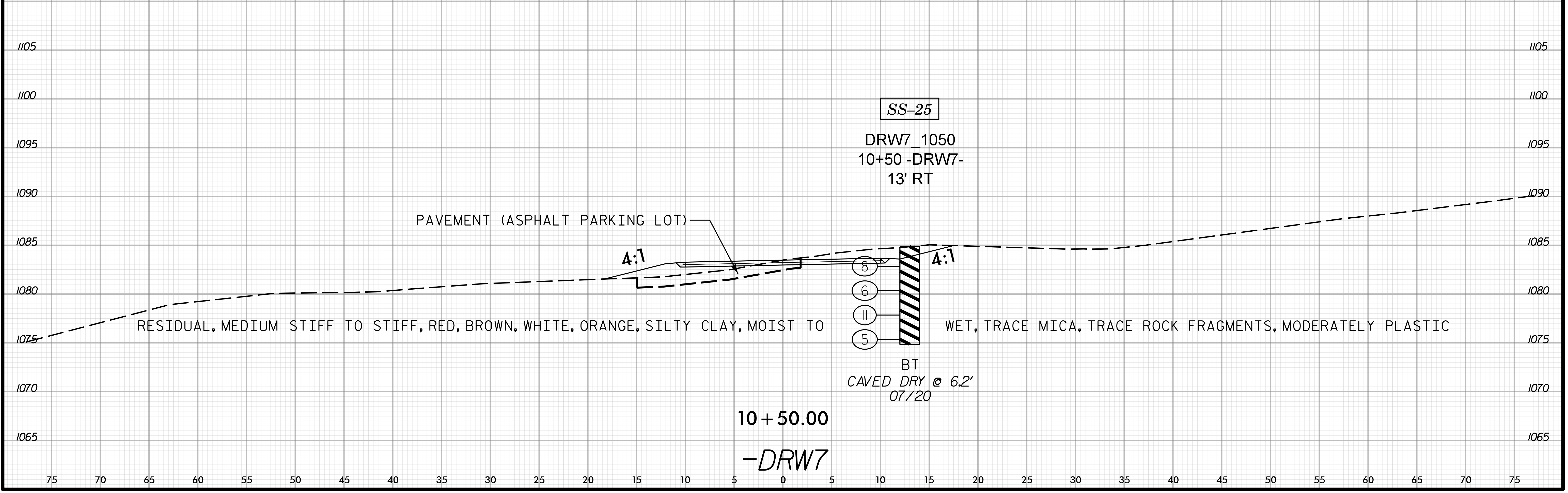


11 + 50.00



10 + 50.00

-DRW7

6/23/16

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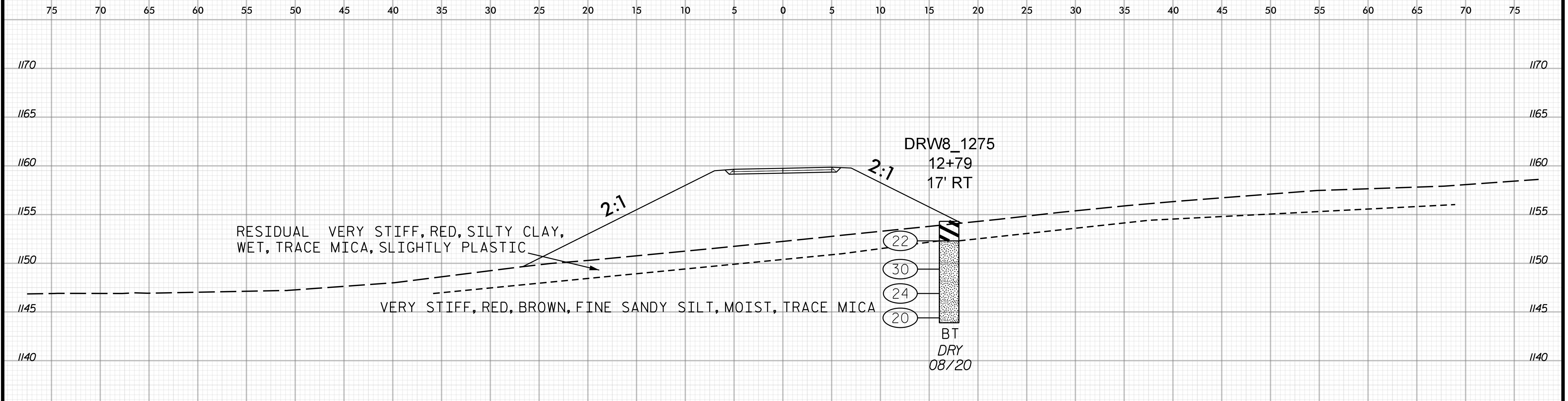

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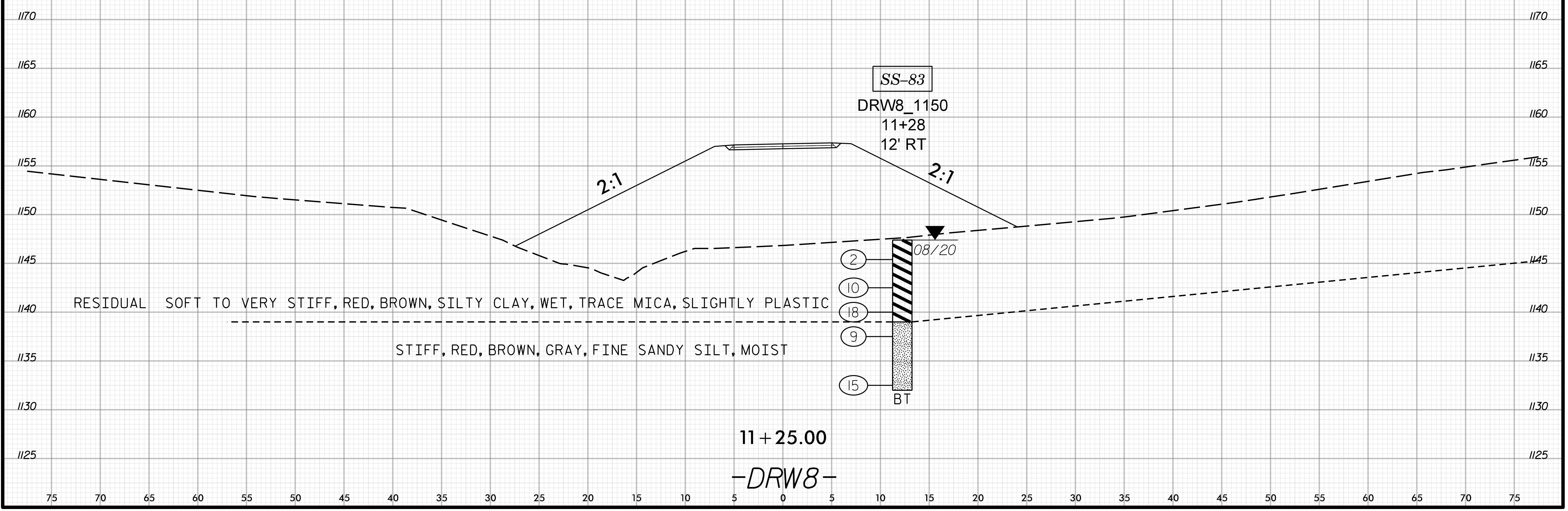

11+25.00

-DRW8-

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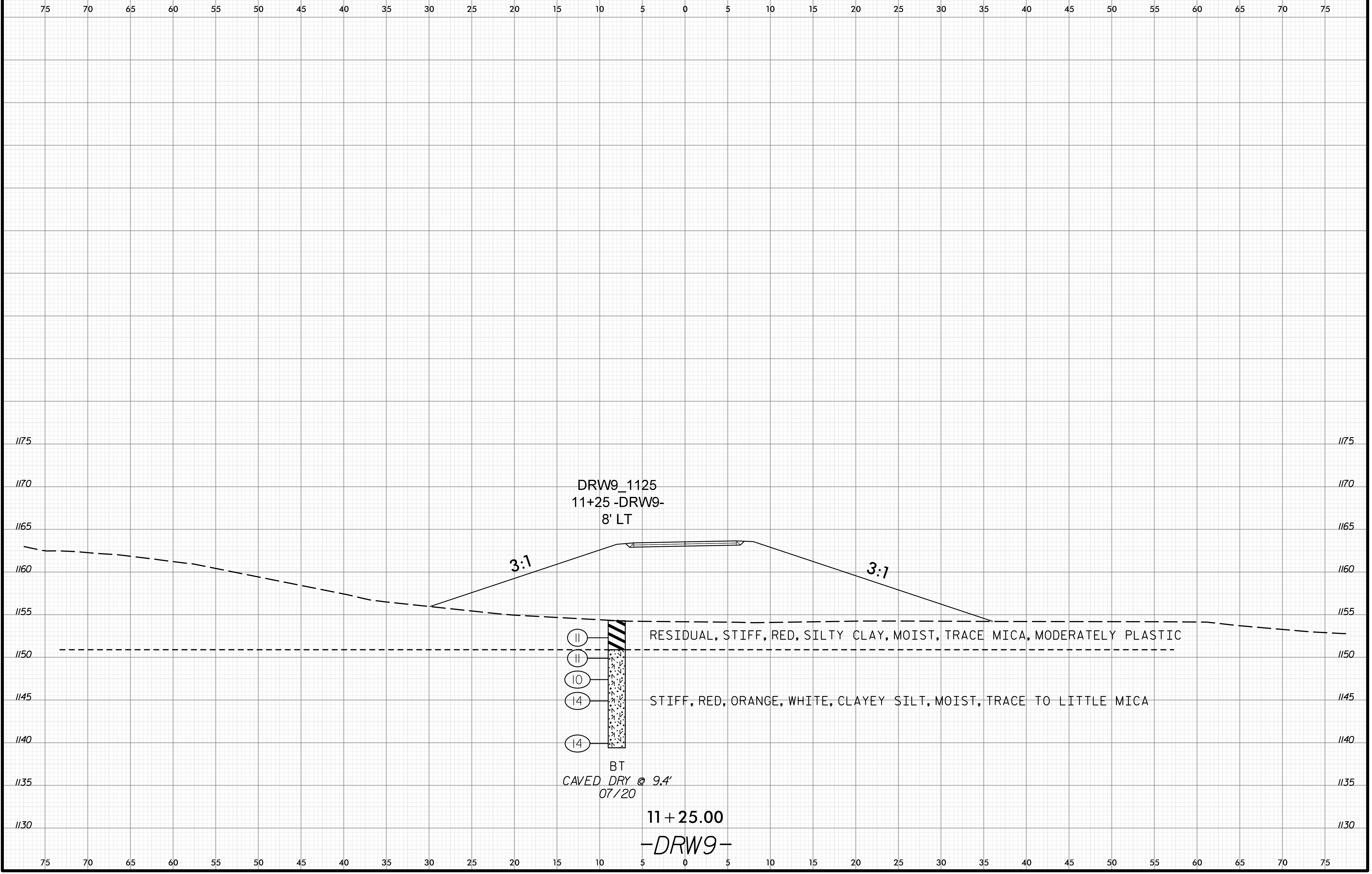
	R-5759	290

6/23/16



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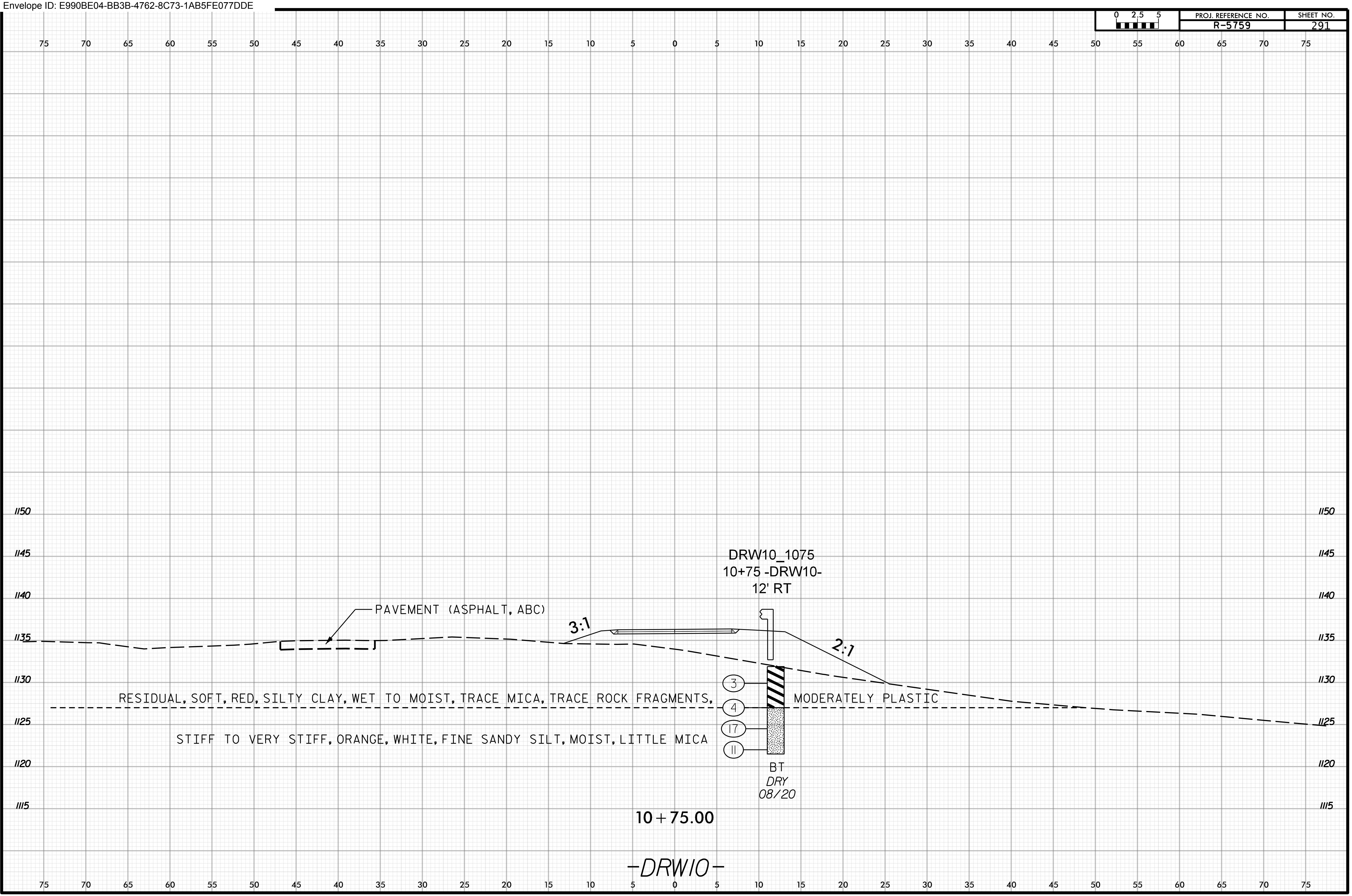
mlhartman AT W00700050699



6/23/16
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mlhartman AT W00700050699

PROJECT REFERENCE NO.	SHEET NO.
R–5759	292

PROJECT: 44691.1.1 REFERENCE: R–5759

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

APPENDIX A

LABORATORY SUMMARY SHEETS FOR SOIL CLASSIFICATIONS
PROCTOR & CBR TEST RESULTS
SHELBY TUBE LABORATORY SUMMARY SHEETS
SHELBY TUBE LABORATORY DATA SHEETS

Prepared in the Office of:

Terracon

2401 BRENTWOOD ROAD, SUITE 107
RALEIGH, NORTH CAROLINA 27604
NC REGISTERED ENGINEERING FIRM: F–0869
NC REGISTERED GEOLOGIC FIRM: C–367

LABORATORY TESTING SUMMARY

PROJECT NUME 44691.1.1 **TIP:** R-5759 **COUNTY:** WILKES

DESCRIPTIO WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET

Sample No.	Station	Alignment	Offset (feet)	Northing	Easting	Depth Interval (feet)	AASHTO Class.	L.L.	P.I.	% by Weight				% Passing (sieves)				% Moisture	% Organic
										Coarse Sand	Fine Sand	Silt	Clay	#4	#10	#40	#200		
SS-4	11+00	-L-	27 RT	874285	1379067	8.5 - 10.0	A-4 (1)	38	4	23.2	36.4	25.7	14.7	0	100	87	49	20.6	--
SS-5	11+25	-DRW2-	CL	876112	1379055	1.0 - 2.5	A-5 (0)	42	5	24.6	41.5	21.5	12.4	0	100	90	42	18.7	--
SS-6	30+50	-L-	35 RT	876164	1378962	1.0 - 2.5	A-4 (0)	34	4	27.0	37.7	19.7	15.6	2	98	87	42	17.2	--
SS-8	34+50	-L-	51 RT	876565	1378953	1.0 - 2.5	A-4 (1)	38	9	29.5	29.3	22.0	19.2	12	83	66	40	14.3	--
SS-10	11+80	-Y4-	30 RT	877496	1379046	3.5 - 5.0	A-2-4 (0)	NP	NP	31.3	46.6	15.9	6.2	3	93	77	29	--	--
SS-12	68+50	-L-	56 RT	879463	1377383	6.0 - 7.5	A-4 (3)	38	6	14.0	35.7	34.3	16.0	4	94	86	57	15.2	--
SS-13	83+50	-L-	55 RT	880777	1376676	3.5 - 5.0	A-7-5 (5)	43	13	22.8	27.1	23.8	26.3	7	90	77	51	27.7	--
SS-14	87+50	-L-	43 RT	881072	1376395	3.5 - 5.0	A-4 (3)	40	3	16.4	26.2	36.2	21.2	0	100	90	66	19.7	--
SS-16	11+25	-Y11-	31 LT	882335	1375248	1.5 - 2.5	A-5 (4)	43	9	22.9	29.0	29.0	19.1	0	100	86	56	19.8	--
SS-17	105+50	-L-	58 RT	882291	1375124	1.0 - 2.5	A-7-5 (24)	61	26	7.0	20.8	28.7	43.5	0	100	96	79	30.1	--
SS-18	11+00	-Y13-	59 LT	884498	1372853	1.0 - 2.5	A-4 (1)	37	7	22.8	40.1	16.7	20.4	7	91	81	42	19.9	--
SS-19	159+60	-L-	43 RT	885760	1371236	3.5 - 5.0	A-7-5 (31)	67	31	3.7	16.9	17.4	62.0	0	100	98	84	32.0	--
SS-20	177+50	-L-	35 LT	886098	1369502	1.0 - 2.5	A-2-4 (0)	NP	NP	37.0	32.0	18.6	12.4	3	90	64	35	--	--
SS-21	163+50	-L-	32 LT	885790	1370840	1.0 - 2.5	A-4 (0)	30	5	35.5	28.5	19.8	16.2	2	90	65	39	15.0	--
SS-22	14+00	-Y10-	CL	882108	1374838	3.5 - 5.0	A-5 (2)	41	7	21.2	30.8	32.9	15.1	14	84	73	48	19.1	--
SS-23	107+50	-L-	50 LT	882328	1374900	8.5 - 10.0	A-4 (2)	36	5	17.8	35.9	32.2	14.1	1	98	88	55	13.8	--
SS-24	11+50	-DRW7-	24 LT	883631	1373298	3.6 - 5.1	A-2-4 (0)	35	6	48.9	23.7	17.0	10.4	7	80	50	26	--	--
SS-25	10+50	-DRW7-	13 RT	883531	1373325	8.5 - 10.0	A-7-5 (18)	54	23	5.4	28.2	40.3	26.1	1	99	96	74	28.2	--
SS-26	13+00	-Y9-	26 RT	881466	1375698	8.8 - 10.3	A-7-5 (10)	50	12	10.0	28.5	38.6	22.9	0	100	95	71	25.6	--
SS-27	14+00	-Y6-	24 RT	878782	1377447	6.3 - 7.8	A-7-5 (11)	51	11	3.3	35.5	47.1	14.1	0	100	99	75	25.9	--
SS-28	19+50	-L-	35 LT	875062	1378957	6.3 - 7.8	A-5 (4)	47	8	13.7	37.3	26.8	22.2	0	100	96	57	23.5	--
SS-29	13+00	-L-	40 LT	874476	1378984	3.6 - 5.1	A-5 (2)	46	7	24.6	31.5	21.6	22.3	0	100	88	50	24.4	--
SS-30	144+00	-L-	16 RT	885019	1372566	1.8 - 2.7	A-4 (2)	35	3	10.6	37.0	38.2	14.2	0	99	94	63	23.8	--
SS-31	13+25	-LPD-	10 LT	875691	1379122	1.0 - 2.5	A-7-5 (18)	61	26	11.8	26.0	17.3	44.9	0	100	96	66	25.7	--
SS-32	169+50	-L-	24 RT	886001	1370275	3.6 - 5.1	A-4 (2)	39	8	26.5	28.4	27.7	17.4	3	94	77	48	22.0	--
SS-33	37+00	-L-	11 LT	876810	1378876	3.9 - 5.4	A-5 (4)	50	8	13.6	39.5	29.1	17.8	0	100	95	55	24.4	--
SS-34	37+50	-L-	11 LT	876860	1378873	4.0 - 5.5	A-5 (0)	47	3	23.0	45.1	19.7	12.2	0	100	90	40	19.6	--
SS-35	38+50	-L-	11 LT	876960	1378867	1.5 - 3.0	A-7-6 (12)	46	23	14.6	29.2	26.4	29.8	2	97	90	60	20.5	--
SS-36	38+50	-L-	11 LT	876960	1378867	9.1 - 10.6	A-5 (1)	42	7	20.8	44.0	33.8	1.4	0	100	94	43	19.2	--
SS-37	40+00	-L-	10 LT	877110	1378859	6.5 - 8.0	A-5 (4)	44	9	12.2	41.6	43.2	3.0	0	100	94	57	17.8	--
SS-38	40+50	-L-	11 LT	877160	1378855	6.5 - 8.0	A-7-5 (15)	55	22	13.9	24.4	32.0	29.7	0	99	91	66	25.3	--
SS-39	40+50	-L-	11 LT	877160	1378855	9.0 - 10.5	A-4 (0)	33	3	16.3	48.7	28.9	6.1	0	99	93	45	13.1	--
SS-40	24+17	-Y2-	CL	876092	1378756	1.0 - 2.5	A-7-6 (15)	52	24	12.8	24.4	15.6	47.2	2	97	92	65	17.6	--
SS-41	21+85	-Y2-	1 LT	875972	1378567	13.7 - 15.2	A-4 (1)	39	10	25.9	38.4	11.4	24.3	0	99	87	41	17.6	--
SS-42	26+65	-L-	65 LT	875774	1378886	6.0 - 7.5	A-5 (4)	54	9	16.7	39.8	24.1	19.4	0	99	91	51	30.2	--
SS-43	41+50	-L-	14 LT	877259	1378846	8.7 - 10.2	A-7-6 (15)	46	27	10.5	30.1	14.6	44.8	0	99	95	65	24.6	--
SS-44	76+00	-L-	11 LT	880076	1376952	8.8 - 10.3	A-7-5 (6)	42	11	16.9	22.5	46.1	14.5	3	93	82	63	14.0	--
SS-45	89+50	-L-	45 LT	881208	1376261	1.0 - 2.5	A-7-6 (11)	44	16	13.2	22.1	24.5	40.2	0	98	90	69	27.5	--
SS-46	132+11	-L-	16 LT	883923	1373022	6.0 - 7.5	A-4 (0)	35	3	32.6	29.6	23.7	14.1	1	92	71	41	10.9	--
SS-47	69+50	-L-	43 LT	879493	1377246	6.0 - 7.5	A-7-5 (7)	45	12	8.3	39.7	34.3	17.7	0	98	94	63	17.2	--

NP - NON-PLASTIC

Stephanie H. Huffman

Certified Lab Technician Signature

114-01-1203

Certification Number

LABORATORY TESTING SUMMARY

PROJECT NUMBER: 44691.1.1 **TIP:** R-5759 **COUNTY:** WILKES

DESCRIPTION: WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET

Sample No.	Station	Alignment	Offset (feet)	Northing	Easting	Depth Interval (feet)	AASHTO Class.	L.L.	P.I.	% by Weight				% Passing (sieves)				% Moisture	% Organic
										Coarse Sand	Fine Sand	Silt	Clay	#4	#10	#40	#200		
SS-48	32+50	-L-	30 LT	876360	1378879	4.2 - 5.7	A-5 (3)	46	8	18.8	39.0	20.0	22.2	0	100	93	50	21.8	--
SS-49	15+25	-RPB-	36 LT	874868	1378655	6.0 - 7.5	A-7-5 (19)	60	28	16.6	21.0	28.2	34.2	0	100	91	66	26.9	--
SS-50	132+56	-L-	15 LT	883958	1372993	6.0 - 7.5	A-4 (3)	35	9	17.6	37.3	30.7	14.4	0	99	91	55	12.5	--
SS-51	136+55	-L-	52 LT	884292	1372755	6.0 - 7.5	A-4 (0)	31	3	24.2	36.2	38.2	1.4	0	100	85	48	20.7	--
SS-52	12+91	-Y4-	18 LT	877503	1379169	3.9 - 5.4	A-4 (1)	33	6	23.0	38.9	27.6	10.5	1	96	82	46	17.7	--
SS-53	135+00	-L-	13 LT	884163	1372856	4.0 - 5.5	A-4 (1)	32	7	23.3	34.2	22.8	19.7	1	97	83	50	14.7	--
SS-55	11+50	-Y3-	5 RT	876618	1378591	1.0 - 2.5	A-2-4 (0)	NP	NP	25.6	56.3	8.5	9.6	1	97	87	25	--	--
SS-56	145+91	-L-	15 RT	885180	1372459	3.9 - 5.4	A-2-4 (0)	25	3	45.0	27.8	17.6	9.6	7	81	54	27	5.8	--
SS-57	151+50	-L-	10 RT	885510	1372008	1.5 - 5.0	A-7-6 (17)	48	23	8.1	22.6	23.0	46.3	0	99	94	75	22.7	--
SS-58	87+50	-L-	44 LT	881072	1376395	1.0 - 2.5	A-7-6 (12)	42	22	15.1	24.9	11.9	48.1	1	99	93	64	19.3	--
SS-59	62+50	-L-	45 LT	878919	1377654	1.0 - 2.5	A-7-5 (22)	57	26	6.1	23.2	20.3	50.4	0	100	97	77	22.6	--
SS-60	11+50	-DRW6-	13 LT	881735	1375909	1.0 - 2.5	A-7-6 (20)	49	23	6.3	16.3	22.5	54.9	0	99	96	81	22.4	--
SS-61	10+75	-DRW6-	25 RT	881654	1375901	6.2 - 7.2	A-5 (5)	41	9	19.4	28.1	36.7	15.8	0	99	87	59	15.5	--
SS-62	142+00	-L-	141 LT	884782	1372495	1.0 - 2.5	A-5 (6)	42	7	6.2	31.7	44.4	17.7	0	100	98	72	18.6	--
SS-63	142+00	-L-	141 LT	884782	1372495	12.7 - 14.2	A-4 (0)	NP	NP	28.3	38.3	21.0	12.4	0	98	83	41	19.7	--
SS-64	144+00	-L-	180 LT	884927	1372393	1.0 - 2.5	A-7-6 (18)	50	22	8.4	22.2	22.1	47.3	0	100	95	76	24.6	--
SS-65	144+00	-L-	180 LT	884927	1372393	23.5 - 25.0	A-2-4 (0)	32	7	37.3	28.1	20.8	13.8	17	72	53	29	--	--
SS-66	144+00	-L-	180 LT	884927	1372393	33.5 - 35.0	A-7-6 (8)	43	15	11.3	36.7	35.9	16.1	0	100	94	62	20.7	--
SS-67	16+50	-Y14-	45 RT	884703	1372590	18.1 - 19.6	A-4 (0)	36	3	23.2	42.6	27.2	7.0	13	83	72	37	11.8	--
SS-68	16+50	-Y14-	45 RT	884703	1372590	23.8 - 24.6	A-5 (4)	46	7	13.5	35.3	36.5	14.7	1	99	93	60	33.0	--
SS-69	133+00	-L-	105 LT	883938	1372894	1.0 - 2.5	A-6 (6)	39	14	19.3	22.5	24.3	33.9	5	89	77	57	21.6	--
SS-70	133+00	-L-	105 LT	883938	1372894	9.5 - 10.5	A-2-4 (0)	30	7	49.4	23.5	8.9	18.2	35	51	32	16	14.3	--
SS-71	135+45	-L-	44 LT	884190	1372808	1.0 - 1.5	A-6 (5)	38	11	15.8	27.1	27.6	29.5	6	91	82	58	25.3	--
SS-72	132+00	-L-	65 RT	883970	1373089	1.0 - 2.5	A-5 (6)	41	8	6.8	31.5	35.6	26.1	0	100	97	71	24.2	--
SS-73	134+00	-L-	63 RT	884118	1372971	1.0 - 2.5	A-2-4 (0)	NP	NP	43.3	26.4	8.1	22.2	4	80	53	29	--	--
SS-74	128+00	-L-	63 RT	883712	1373383	3.7 - 5.2	A-7-5 (26)	63	27	3.9	20.4	18.1	57.6	0	100	98	82	29.5	--
SS-75	128+00	-L-	63 RT	883712	1373383	8.7 - 10.2	A-7-5 (12)	49	12	3.7	25.8	35.3	35.2	0	100	98	79	29.1	--
SS-76	142+00	-L-	70 RT	884849	1372695	6.2 - 7.7	A-2-6 (0)	34	12	47.1	22.1	10.6	20.2	0	97	61	35	--	--
SS-77	138+50	-L-	47 LT	884480	1372696	1.0 - 2.5	A-4 (0)	NP	NP	19.2	35.2	32.7	12.9	3	94	83	51	23.3	--
SS-78	12+00	-Y4-	73 LT	877593	1379108	3.2 - 4.7	A-2-4 (0)	NP	NP	30.6	39.1	15.8	14.5	4	86	68	34	--	--
SS-79	10+71	-Y4-	53 LT	877621	1378971	4.2 - 5.7	A-2-4 (0)	NP	NP	26.4	52.6	8.9	12.1	4	95	88	25	--	--
SS-80	56+50	-L-	28 LT	878469	1378053	1.0 - 2.5	A-7-6 (14)	48	19	6.7	26.3	25.1	41.9	2	97	94	73	26.3	--
SS-81	50+50	-L-	57 LT	877992	1378418	4.0 - 5.5	A-5 (7)	41	10	13.1	25.3	31.3	30.3	0	100	91	70	21.4	--
SS-82	46+50	-L-	52 LT	877689	1378680	7.8 - 9.3	A-6 (5)	34	11	13.9	29.4	36.6	20.1	4	93	86	60	22.8	--
SS-83	11+50	-DRW8-	8 LT	880551	1376589	8.9 - 10.4	A-4 (0)	NP	NP	18.8	32.6	38.5	10.1	0	100	89	57	22.4	--
SS-84	13+25	-LPD-	10 LT	875691	1379122	3.7 - 5.2	A-5 (3)	44	9	28.4	30.3	23.4	17.9	0	100	84	48	20.5	--
SS-85	17+00	-Y2-	23 LT	875967	1378099	6.3 - 7.8	A-5 (0)	41	5	22.3	44.4	22.5	10.8	0	100	91	42	16.1	--
SS-86	42+22	-L-	58 RT	877336	1378913	8.8 - 10.2	A-6 (7)	32	14	10.5	29.9	22.4	37.2	0	100	95	66	27.6	--
SS-87	40+50	-L-	61 RT	877164	1378927	13.9 - 15.4	A-2-4 (0)	NP	NP	30.7	45.2	16.6	7.5	0	100	86	32	--	--
SS-88	11+80	-Y4-	30 RT	877496	1379046	1.0 - 2.5	A-6 (8)	37	12	4.1	33.9	29.9	32.1	0	100	98	72	34.9	--

NP - NON-PLASTIC

Stephanie H. Huffman

Certified Lab Technician Signature

114-01-1203

Certification Number

LABORATORY TESTING SUMMARY

PROJECT NUMBER: 44691.1.1 **TIP:** R-5759 **COUNTY:** WILKES

DESCRIPTION: WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET

Sample No.	Station	Alignment	Offset (feet)	Northing	Easting	Depth Interval (feet)	AASHTO Class.	L.L.	P.I.	% by Weight				% Passing (sieves)				% Moisture	% Organic
										Coarse Sand	Fine Sand	Silt	Clay	#4	#10	#40	#200		
SS-89	50+50	-L-	57 LT	877992	1378418	1.0 - 2.5	A-7-6 (12)	43	17	10.0	20.9	30.9	38.2	0	97	91	73	23.5	--
SS-90	54+50	-L-	40 LT	878309	1378173	8.6 - 10.1	A-5 (6)	45	7	5.0	46.3	40.4	8.3	0	100	98	67	25.4	--
SS-91	60+50	-L-	66 LT	878750	1377766	6.0 - 7.5	A-5 (6)	49	6	8.0	42.4	41.1	8.5	0	100	96	66	22.6	--
SS-92	68+50	-L-	56 RT	879463	1377383	1.0 - 2.5	A-7-6 (11)	45	17	10.4	26.7	23.8	39.1	1	97	92	68	22.4	--
SS-94	85+50	-L-	41 RT	880950	1376573	13.8 - 15.3	A-5 (7)	48	9	7.8	36.1	39.7	16.4	0	100	98	67	30.8	--
SS-95	14+50	-Y11-	18 RT	882643	1375340	1.0 - 2.5	A-7-6 (11)	44	18	14.0	22.1	22.2	41.7	1	96	87	67	22.3	--
SS-97	109+00	-L-	54 LT	882420	1374780	1.0 - 2.5	A-7-6 (17)	48	23	6.8	24.7	20.0	48.5	0	99	95	74	25.4	--
SS-98	112+50	-L-	38 RT	882713	1374567	3.5 - 5.0	A-5 (6)	47	9	15.0	32.6	37.8	14.6	0	100	92	62	25.7	--
SS-99	122+50	-L-	88 RT	883384	1373824	6.0 - 7.5	A-5 (4)	42	9	21.9	26.6	30.1	21.4	3	91	77	54	20.9	--
SS-100	122+50	-L-	88 RT	883384	1373824	13.5 - 15.0	A-4 (0)	36	7	39.5	22.2	21.5	16.8	1	90	63	38	20.7	--
SS-101	132+00	-L-	65 RT	883970	1373089	18.7 - 20.2	A-4 (1)	37	3	19.9	37.1	32.9	10.1	0	100	88	54	16.8	--
SS-102	136+55	-L-	52 LT	884292	1372755	1.0 - 1.5	A-4 (2)	37	8	20.6	33.2	29.7	16.5	4	94	82	52	23.8	--
SS-103	149+50	-L-	80 LT	885343	1372139	5.3 - 6.8	A-7-6 (16)	49	22	9.7	23.7	26.3	40.3	0	100	94	73	24.3	--
SS-104	149+50	-L-	80 LT	885343	1372139	12.8 - 14.3	A-4 (0)	NP	NP	28.8	34.4	27.8	9.0	0	99	82	45	13.2	--
SS-105	14+90	-Y14-	164 LT	884746	1372303	8.5 - 10.0	A-4 (2)	37	5	13.0	36.6	39.9	10.5	0	99	93	60	15.3	--
SS-106	14+90	-Y14-	164 LT	884746	1372303	48.5 - 50.0	A-4 (3)	40	3	5.2	40.3	42.5	12.0	0	100	98	68	19.8	--
SS-107	10+70	-Y15-	CL	885487	1372191	6.0 - 7.5	A-7-6 (12)	42	16	7.2	23.0	29.6	40.2	0	99	95	76	33.2	--
SS-109	10+90	-Y13-	17 RT	884422	1372856	3.9 - 5.6	A-7-5 (9)	44	13	11.7	27.7	33.2	27.4	1	98	91	67	31.2	--
SS-110	10+40	-Y13-	31 RT	884399	1372809	1.0 - 2.5	A-4 (0)	31	2	31.4	34.1	27.5	7.0	1	96	76	42	13.9	--
SS-111	135+00	-L-	13 LT	884163	1372856	14.0 - 15.5	A-7-5 (6)	43	11	15.7	29.0	32.5	22.8	0	98	89	62	29.7	--
SS-112	12+75	-Y14-	37 LT	884490	1372344	8.1 - 9.6	A-4 (0)	33	4	27.4	38.2	25.5	8.9	0	100	83	44	14.7	--
S-1	36+50	-L-	37 LT	876759	1378853	4.0 - 4.5	A-5 (2)	51	10	24.6	40.4	19.8	15.2	0	100	87	42	20.4	--
S-2	41+00	-L-	46 LT	877207	1378817	7.5 - 8.0	A-7-5 (20)	56	25	7.1	24.2	15.9	52.8	0	100	97	74	29.8	--
S-3	11+50	-L-	8 RT	874334	1379046	1.3 - 6.0	A-7-5 (20)	57	26	8.0	23.4	15.6	53.0	0	99	96	72	26.1	--
S-7	64+50	-L-	16 RT	879115	1377579	1.3 - 6.0	A-7-5 (9)	45	13	10.5	30.3	26.9	32.3	0	99	92	67	26.5	--
S-9	93+00	-L-	3 LT	881461	1376017	2.5 - 6.0	A-7-6 (7)	43	14	21.7	21.8	24.6	31.9	4	94	80	58	13.7	--
S-12	109+00	-L-	6 LT	882457	1374810	1.5 - 4.0	A-7-6 (13)	47	19	11.3	24.7	19.7	44.3	0	98	92	69	25.1	--
S-16	12+00	-Y6_REV-	6 RT	878597	1377387	1.5 - 6.0	A-7-6 (11)	41	17	8.3	30.8	20.3	40.6	0	99	95	68	9.2	--
S-17	164+00	-L-	22 RT	885855	1370805	2.0 - 6.0	A-7-6 (20)	50	27	8.4	22.1	14.2	55.3	0	99	93	74	17.2	--
S-19	12+50	-Y7-	1 LT	880075	1377233	1.3 - 5.0	A-7-6 (7)	42	16	17.1	29.2	26.1	27.6	2	96	87	58	22.9	--
S-24	17+00	-RPB-	19 RT	874758	1378799	0.9 - 6.0	A-7-6 (3)	45	18	24.8	29.7	17.9	27.6	22	73	62	38	9.5	--
S-30	25+50	-L-	40 LT	875361	1378934	5.0 - 5.5	A-5 (4)	45	10	17.2	36.9	24.9	21.0	0	100	95	52	25.0	--
S-31	23+00	-L-	45 LT	875411	1378926	1.0 - 1.5	A-7-6 (23)	57	31	11.6	17.8	10.4	60.2	0	100	95	73	26.6	--
S-32	120+75	-L-	35 RT	883232	1373926	2.0 - 2.5	A-7-6 (18)	52	25	10.9	20.6	19.0	49.5	0	98	91	72	27.4	--
S-33	136+90	-L-	41 LT	884330	1372753	4.0 - 4.5	A-4 (0)	NP	NP	25.1	45.7	20.0	9.2	1	97	84	38	21.6	--
S-34	157+50	-L-	43 LT	885622	1371416	5.0 - 5.5	A-7-6 (35)	61	34	1.2	13.1	25.6	60.1	0	100	100	90	33.7	--
S-35	12+00	-Y8-	16 LT	881329	1376463	7.0 - 7.5	A-5 (6)	46	7	11.3	27.1	34.3	27.3	0	100	93	70	22.3	--
S-36	16+50	-Y10-	42 RT	882050	1375092	6.5 - 7.0	A-4 (0)	NP	NP	31.8	30.5	24.9	12.8	1	94	72	42	22.2	--
S-37	126+50	-L-	29 LT	883546	1373441	1.0 - 1.5	A-2-4 (0)	NP	NP	37.4	30.7	16.9	15.0	15	76	56	29	--	--
S-38	11+50	-Y13-	45 RT	884405	1372920	1.5 - 2.0	A-7-5 (10)	47	13	11.4	22.5	32.4	33.7	2	96	89	70	44.0	--
S-39	76+00	-L-	51 LT	880058	1376916	3.5 - 4.0	A-7-5 (13)	53	17	9.9	29.1	32.2	28.8	0	100	94	69	18.4	--

NP - NON-PLASTIC

Stephanie H. Huffman

Certified Lab Technician Signature

114-01-1203

Certification Number

LABORATORY TESTING SUMMARY

PROJECT NUMBER: 44691.1.1 **TIP:** R-5759 **COUNTY:** WILKES

DESCRIPTION: WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET

Sample No.	Station	Alignment	Offset (feet)	Northing	Easting	Depth Interval (feet)	AASHTO Class.	L.L.	P.I.	% by Weight				% Passing (sieves)				% Moisture	% Organic
										Coarse Sand	Fine Sand	Silt	Clay	#4	#10	#40	#200		
S-40	153+50	-L-	76 LT	885486	1371793	4.0 - 4.5	A-7-6 (16)	53	25	15.5	17.7	20.4	46.4	5	92	82	65	23.8	--
S-41	101+50	-L-	31 LT	881974	1375339	2.0 - 2.5	A-7-5 (25)	62	31	8.6	17.8	17.9	55.7	2	97	92	75	26.2	--
CBR-1	28+50	-L-	19 RT	875964	1378958	1.0 - 3.0	A-7-5 (14)	59	27	15.3	27.4	23.2	34.1	7	91	85	57	22.1	--
CBR-2	93+00	-L-	21 RT	881479	1376032	1.0 - 3.0	A-6 (4)	36	12	22.0	27.2	24.8	26.0	5	92	79	52	16.7	--
CBR-3	154+00	-L-	36 LT	885538	1371755	1.0 - 3.0	A-7-6 (9)	41	13	9.9	20.7	37.6	31.8	4	93	87	70	24.5	--
ST-1	133+00	-L-	105 LT	883938	1372894	3.0 - 5.2	A-6	36	11	13.9	24.0	27.9	34.2	2	90	92	68	13.6	--

NP - NON-PLASTIC

Stephanie H. Huffman

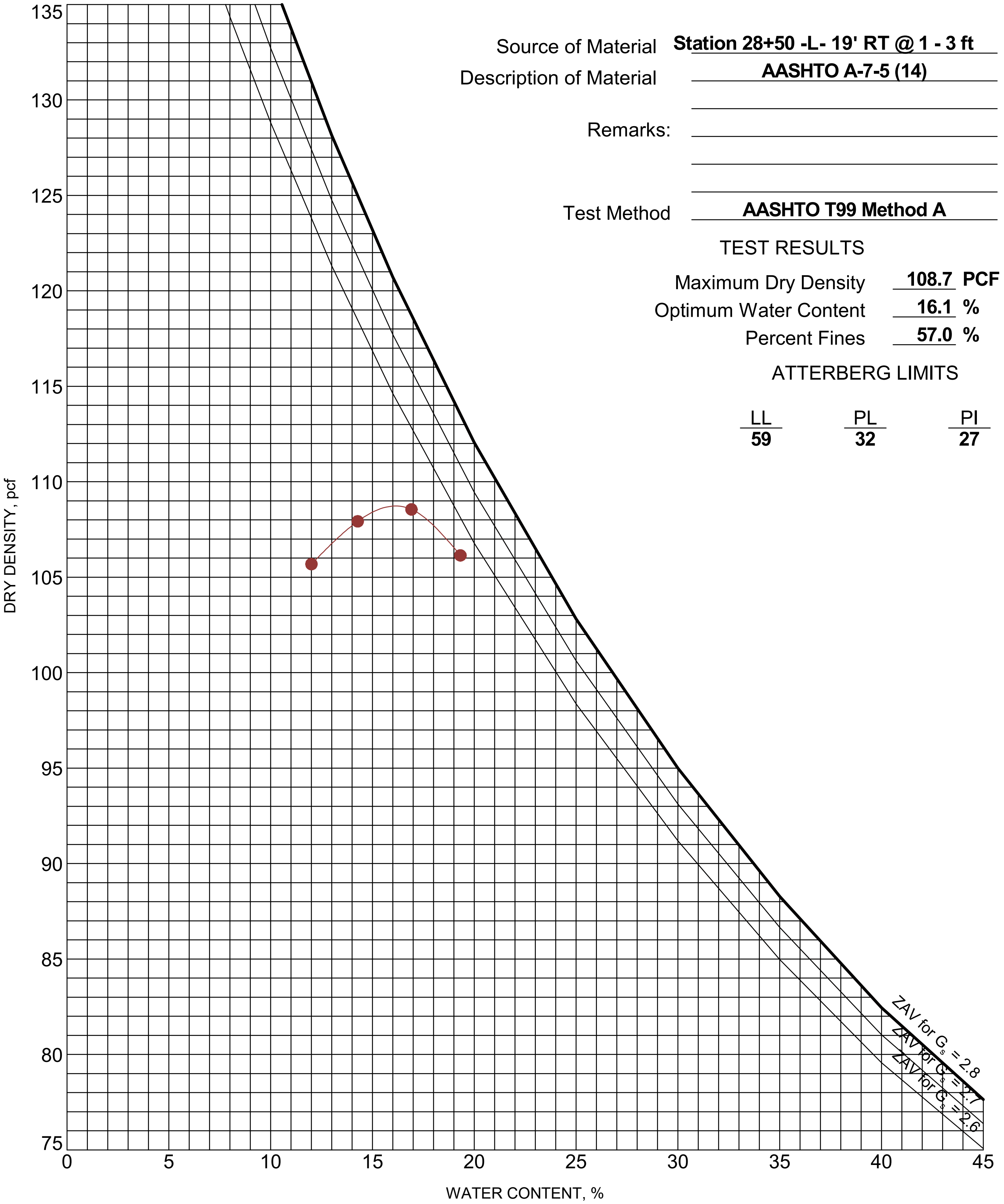
Certified Lab Technician Signature

114-01-1203

Certification Number

MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material **Station 28+50 -L- 19' RT @ 1 - 3 ft**

Description of Material **AASHTO A-7-5 (14)**

Remarks:

Test Method **AASHTO T99 Method A**

TEST RESULTS

Maximum Dry Density	**108.7**	**PCF**
Optimum Water Content	**16.1**	**%**
Percent Fines	**57.0**	**%**

ATTERBERG LIMITS

LL	PL	PI
59	**32**	**27**

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 70185317 GINT FILE.GPJ TERRACON_DATATEMPLATE.GDT 9/9/20

PROJECT: R-5759 Upgrades NC 115 (Statesville Road)	Terracon 2401 Brentwood Rd Ste 107 Raleigh, NC	PROJECT NUMBER: 70185317
SITE: Statesville Road Wilkesboro, North Carolina		CLIENT: HNTB North Carolina PC Raleigh, North Carolina
		EXHIBIT: B-2

REPORT FOR CALIFORNIA BEARING RATIO

Service Date: 07/22/20
Report Date: 08/03/20

2401 Brentwood Road, Suite 107
Raleigh, NC 27604
919-873-2211

Client

HNTB North Carolina PC
Attn: Joseph Olson
343 East Six Forks
Raleigh, North Carolina 28280

Project

R-5759 Upgrades NC 115 (Statesville Road)
Statesville Road / 2nd Street
Wilkesboro, North Carolina

Project No. 70185317

SAMPLE INFORMATION

Sample Number:	CBR-1	Proctor Method:	AASHTO T99 - Method A
Boring Number:	Station 28+50 -L- 19' RT	Maximum Dry Density (pcf):	108.7
Sample Location:	CBR-1	Optimum Moisture:	16.1
Depth:	1.0 - 3.0'	Liquid Limit:	
Material Description:		Plasticity Index:	

CBR TEST DATA

CBR Value at 0.100 inch	**4.0**
CBR Value at 0.200 inch	**5.9**

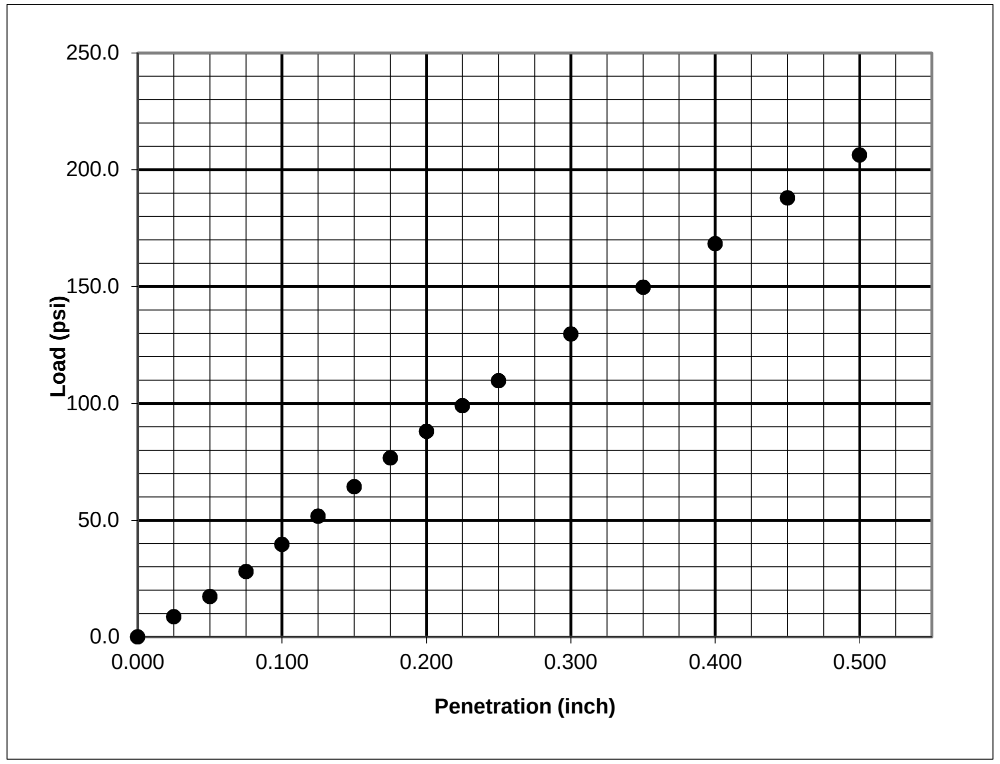
Surcharge Weight (lbs)	10
Soaking Condition	Soaked
Length of Soaking (hours)	96
Swell (%)	2.8

DENSITY DATA

Dry Density Before Soaking (pcf)	108.5
Compaction of Proctor (%)	99.8

MOISTURE DATA

Before Compaction (%)	16.3
After Compaction (%)	16.4
Top 1" After Soaking (%)	23.0
Average After Soaking (%)	20.1



Comments:

Services: Obtain soil sample and test for California Bearing Ratio

Terracon Rep: Stephanie Huffman
Reported To: Matt Alexander
Contractor:

Report Distribution

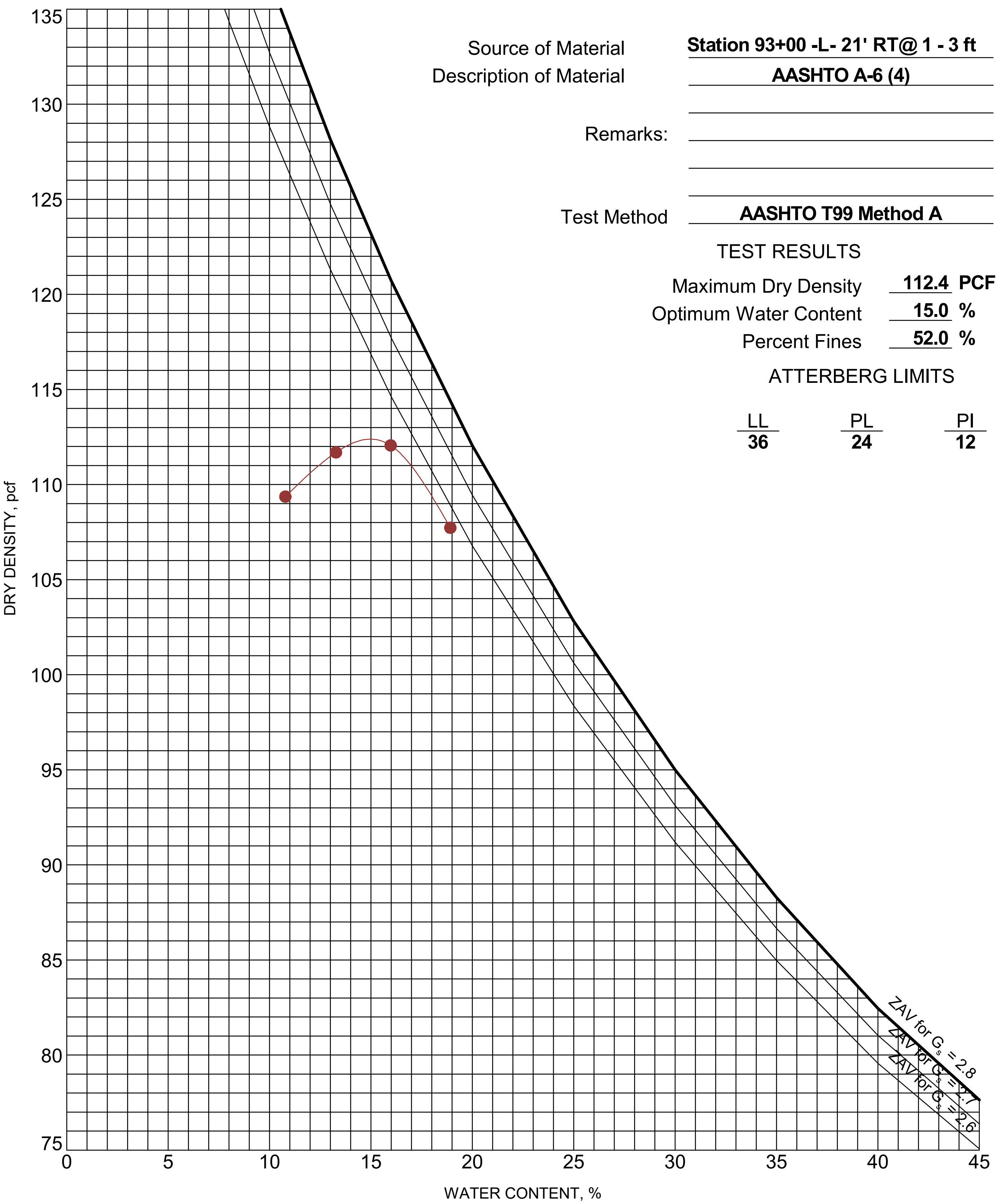
Reviewed by:
Matthew J. Alexander
Geotechnical Project Manager

Test Methods: AASHTO T193

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material	Station 93+00 -L- 21' RT@ 1 - 3 ft
Description of Material	AASHTO A-6 (4)
Remarks:	
Test Method	AASHTO T99 Method A

TEST RESULTS

Maximum Dry Density	112.4	PCF
Optimum Water Content	15.0	%
Percent Fines	52.0	%

ATTERBERG LIMITS

LL	PL	PI
36	24	12

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 70185317 GINT FILE.GPJ TERRACON_DATATEMPLATE.GDT 9/9/20

PROJECT: R-5759 Upgrades NC 115 (Statesville Road)	2401 Brentwood Rd Ste 107 Raleigh, NC	PROJECT NUMBER: 70185317
SITE: Statesville Road Wilkesboro, North Carolina		CLIENT: HNTB North Carolina PC Raleigh, North Carolina
		EXHIBIT: B-3

REPORT FOR CALIFORNIA BEARING RATIO

SHEET 298

Service Date: 07/22/20
Report Date: 08/03/20

2401 Brentwood Road, Suite 107
Raleigh, NC 27604
919-873-2211

Client

HNTB North Carolina PC
Attn: Joseph Olson
343 East Six Forks
Raleigh, North Carolina 28280

Project

R-5759 Upgrades NC 115 (Statesville Road)
Statesville Road / 2nd Street
Wilkesboro, North Carolina

Project No. 70185317

SAMPLE INFORMATION

Sample Number:	CBR-2	Proctor Method:	AASHTO T99 - Method A
Boring Number:	Station 93+00 -L 21' RT	Maximum Dry Density (pcf):	112.4
Sample Location:	CBR-2	Optimum Moisture:	15.0
Depth:	1.0 - 3.0'	Liquid Limit:	
Material Description:		Plasticity Index:	

CBR TEST DATA

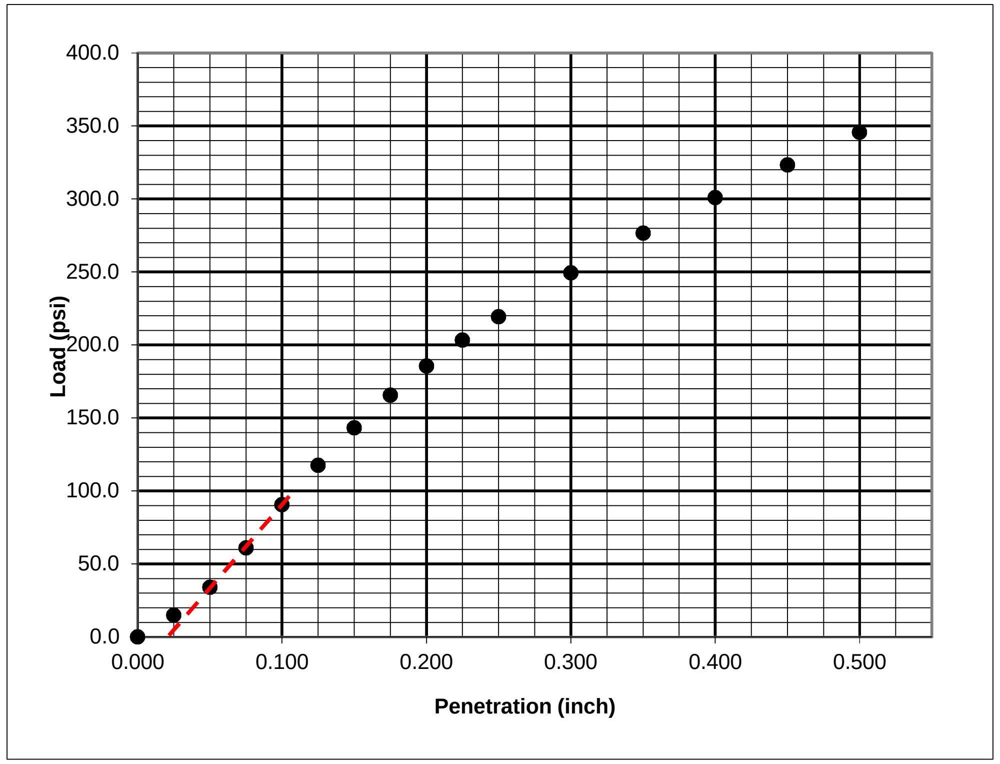
CBR Value at 0.100 inch	11.5
CBR Value at 0.200 inch	13.3
Surcharge Weight (lbs)	10
Soaking Condition	Soaked
Length of Soaking (hours)	96
Swell (%)	1.2

DENSITY DATA

Dry Density Before Soaking (pcf)	112.5
Compaction of Proctor (%)	100.1

MOISTURE DATA

Before Compaction (%)	14.9
After Compaction (%)	14.7
Top 1" After Soaking (%)	17.9
Average After Soaking (%)	17.0



Comments:

Services: Obtain soil sample and test for California Bearing Ratio

Terracon Rep: Stephanie Huffman
Reported To: Matt Alexander
Contractor:

Report Distribution

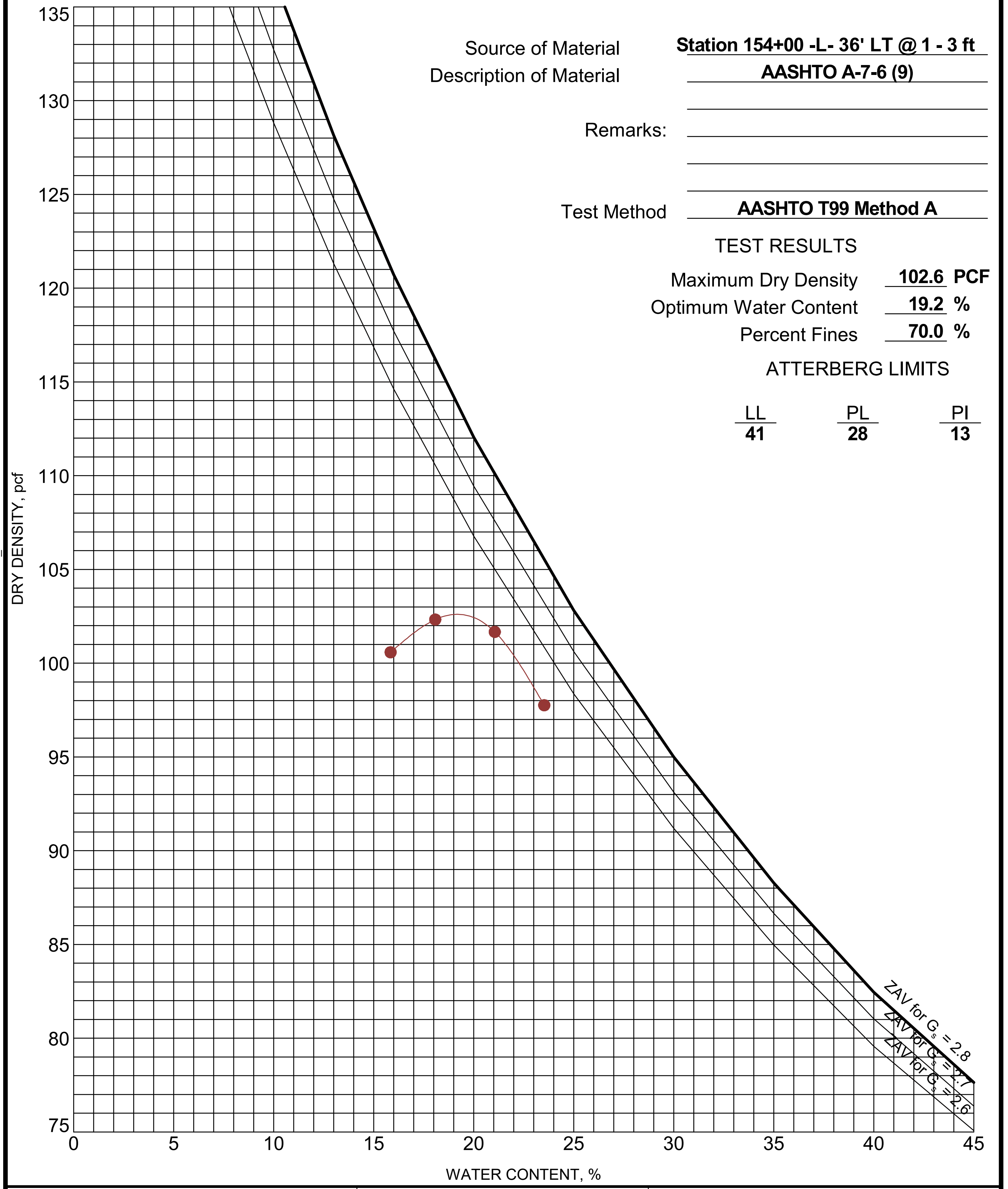
Reviewed by:
Matthew J. Alexander
Geotechnical Project Manager

Test Methods: AASHTO T193

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

MOISTURE-DENSITY RELATIONSHIP

ASTM D698/D1557



Source of Material: **Station 154+00 -L- 36' LT @ 1 - 3 ft**
Description of Material: **AASHTO A-7-6 (9)**
Remarks:
Test Method: **AASHTO T99 Method A**

TEST RESULTS

Maximum Dry Density **102.6 PCF**
Optimum Water Content **19.2 %**
Percent Fines **70.0 %**

ATTERBERG LIMITS

LL	PL	PI
41	**28**	**13**

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. COMPACTION - V2 70185317 GINT FILE.GPJ TERRACON_DATATEMPLATE.GDT 9/9/20

PROJECT: R-5759 Upgrades NC 115 (Statesville Road)	Terracon 2401 Brentwood Rd Ste 107 Raleigh, NC	PROJECT NUMBER: 70185317
SITE: Statesville Road Wilkesboro, North Carolina		CLIENT: HNTB North Carolina PC Raleigh, North Carolina
		EXHIBIT: B-1

REPORT FOR CALIFORNIA BEARING RATIO

Service Date: 07/22/20
Report Date: 08/03/20

Terracon
2401 Brentwood Road, Suite 107
Raleigh, NC 27604
919-873-2211

Client

HNTB North Carolina PC
Attn: Joseph Olson
343 East Six Forks
Raleigh, North Carolina 28280

Project

R-5759 Upgrades NC 115 (Statesville Road)
Statesville Road / 2nd Street
Wilkesboro, North Carolina

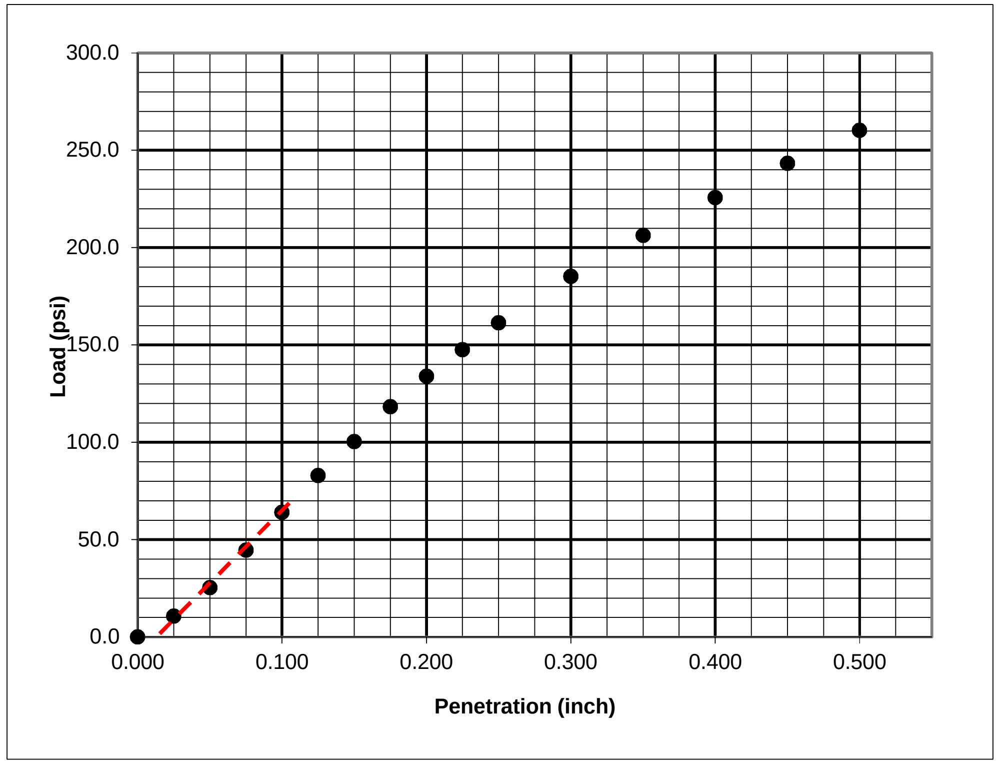
Project No. 70185317

SAMPLE INFORMATION

Sample Number:	CBR-3	Proctor Method:	AASHTO T99 - Method A
Boring Number:	Station 154+00 -L-36' LT	Maximum Dry Density (pcf):	102.6
Sample Location:	CBR 3	Optimum Moisture:	19.2
Depth:	1.0 - 3.0'	Liquid Limit:	
Material Description:		Plasticity Index:	

CBR TEST DATA

CBR Value at 0.100 inch	7.7
CBR Value at 0.200 inch	9.5
Surcharge Weight (lbs)	10
Soaking Condition	Soaked
Length of Soaking (hours)	96
Swell (%)	1.3
DENSITY DATA	
Dry Density Before Soaking (pcf)	101.5
Compaction of Proctor (%)	98.9
MOISTURE DATA	
Before Compaction (%)	19.8
After Compaction (%)	19.6
Top 1" After Soaking (%)	23.4
Average After Soaking (%)	21.9



Comments:

Services: Obtain soil sample and test for California Bearing Ratio

Terracon Rep: Stephanie Huffman
Reported To: Matt Alexander
Contractor:

Report Distribution

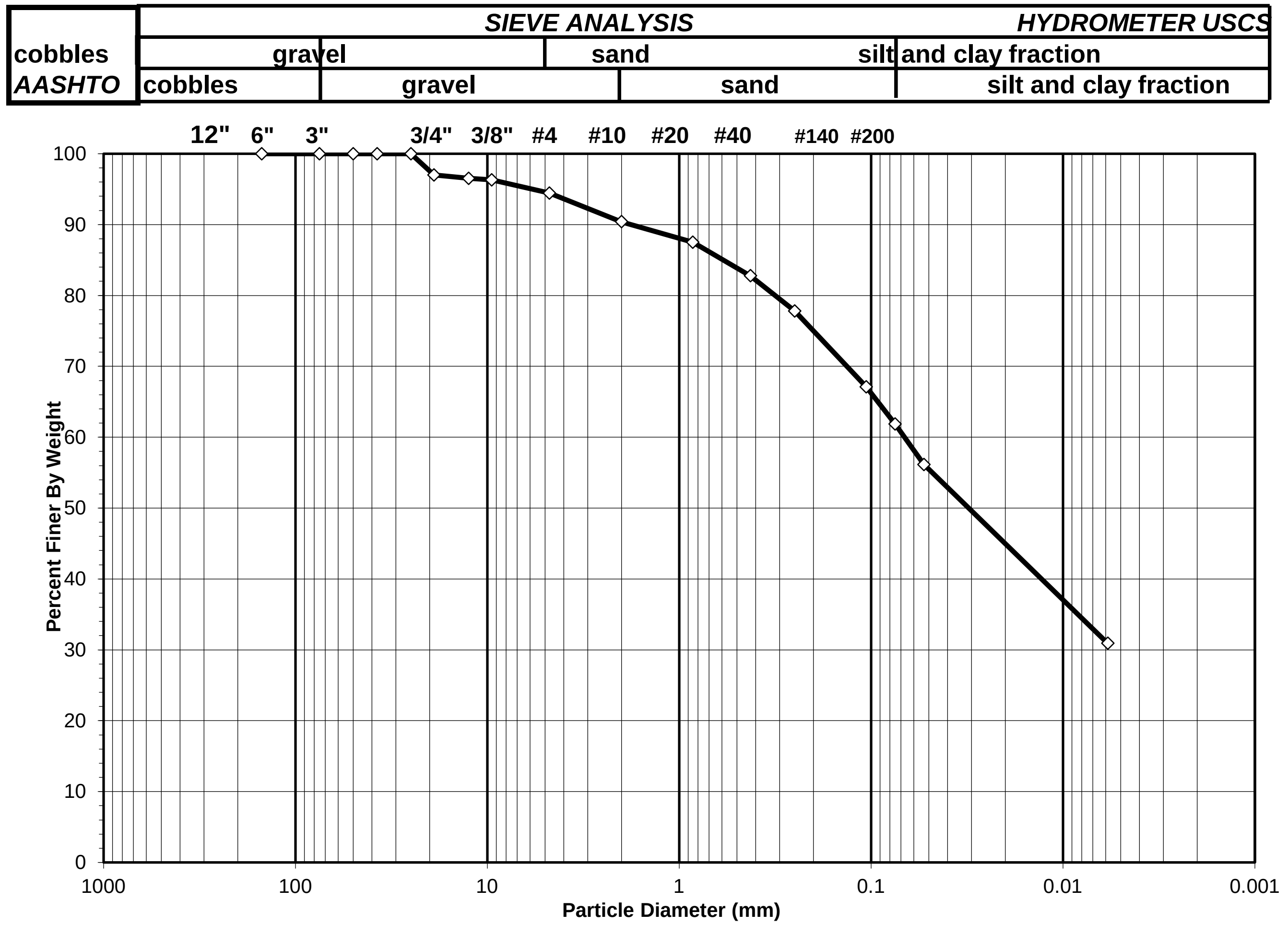
Reviewed by:
Matthew J. Alexander
Geotechnical Project Manager

Test Methods: AASHTO T193

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written approval of Terracon. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

SIEVE AND HYDROMETER ANALYSIS NCDOT MOD. AASHTO T-88,

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0-5.15
Project No.	R-2020-175-001	Sample No.	ST-1 STA 133+00 -L- 105' LT
Lab ID	R-2020-175-001-001	Soil Color	**Red Brown**



Sieve Size (mm)	Percent Finer	USCS	%	AASHTO	%	NCDOT SOIL MORTAR	%
100	100.00	*Gravel*	5.56	*Gravel*	9.60	*Coarse Sand Ret. #60*	13.92
2	90.40	*Sand*	32.58	*Coarse Sand*	7.62	*Fine Sand Ret. #270*	23.96
0.075	61.86	*Silt&Clay*	61.86	*Fine Sand*	20.92	*Silt 0.05-0.005mm*	27.91
				Silt & Clay	61.86	Clay <0.005mm	34.21

AASHTO (GI) *A-6* **(5)**

WASH SIEVE ANALYSIS

NCDOT MOD. AASHTO T-88,

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0-5.15
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Soil Color	**Red Brown**

Minus #10 for Hygroscopic (10-15gm)		Hydrometer Specimen 50 or 100gms	
Tare No.	AL	Air Dried Hydrometer Material (gm)	70.61
Wgt.Tare + Wet Specimen (gm)	48.19	Corrected Dry Wt. of Hydro Mtrl. (gm)	62.14
Wgt.Tare + Dry Specimen (gm)	44.26		
Weight of Tare (gm)	15.44	Weight of -#270 Material	38.60
Weight of Water (gm)	3.93	Weight of -#10; +#270 Material	23.54
Weight of Dry Soil (gm)	28.82		
Moisture Content (%)	**13.6**		

Tare No.	724		
Wgt. Tare + Air Dry Soil (gm)	677.33	Dry Weight of Material Ret. #10 (gm)	45.85
Weight of Tare (gm)	140.83	Corrected Dry Sample Wt - #10 (gm)	431.77
Air Dried Wgt.Total Sample (gm)	536.50		
Total Dry Weight Sample (gm)	477.6	**J - Factor (Percent Finer than #10)**	**0.9040**

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	14.37	3.01	3.01	96.99	**96.99**
1/2"	12.5	2.20	0.46	3.47	96.53	**96.53**
3/8"	9.5	0.96	0.20	3.67	96.33	**96.33**
#4	4.75	9.04	1.89	5.56	94.44	**94.44**
#10	2.00	19.28	4.04	9.60	90.40	**90.40**
#20	0.85	1.98	3.19	3.19	96.81	**87.52**
#40	0.425	3.26	5.25	8.43	91.57	**82.78**
#60	0.25	3.41	5.49	13.92	86.08	**77.82**
#140	0.106	7.37	11.86	25.78	74.22	**67.09**
#200	0.075	3.60	5.79	31.58	68.42	**61.86**
#270	0.053	3.92	6.31	37.88	62.12	**56.15**
Pan	-	38.60	62.12	100.00	-	**-**

Tested By 129-09-0411 Date 9/4/20 Checked By GEM Date 9/9/20

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HYDROMETER ANALYSIS

NCDOT MOD. AASHTO T-88,

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0-5.15
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Soil Color	**Red Brown**

Elapsed Time (min)		R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
11:47:00	0	NA	NA	NA	NA	NA	NA	NA	NA
11:47:31	0.52	45.0	23.5	-2.34	41.3	66.1	0.01297	0.0539	**59.8**
12:47:00	60.00	25.0	23.7	-2.38	21.4	34.2	0.01294	0.0058	**30.9**

Corrections

a - Factor	0.994
Percent Finer than # 10	90.40
Specific Gravity	2.68 Assumed

Note: *Hydrometer test is performed on - #10 sieve material.*

LL = **36**

PL = **25**

PI = **11**

Tested By 129-09-0411 Date 9/4/20 Checked By GEM Date 9/9/20

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ATTERBERG LIMITS

AASHTO T-89, T-90 *(DOT Modified)*

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0-5.15
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Soil Description	**RED BROWN SILT**

***Note: The* USCS *symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description*.** (Minus No. 40 sieve material, Airdried)

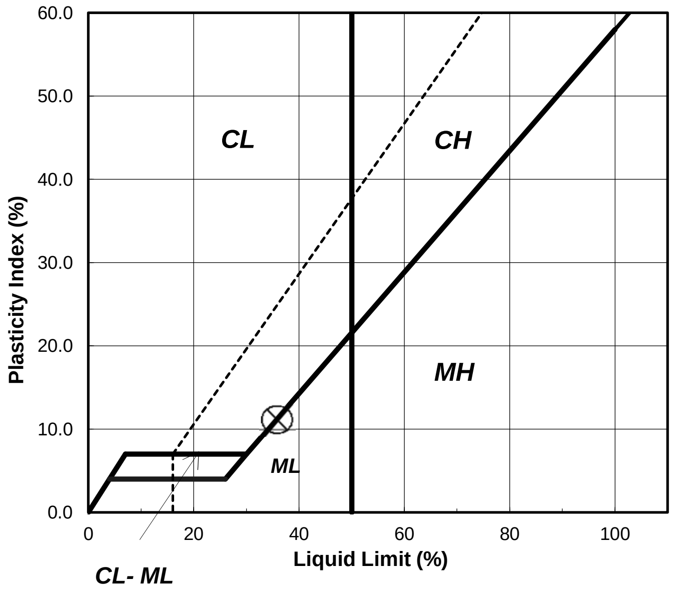
Liquid Limit Test	**1**
Tare Number	W-5
Wt. of Tare & WS (gm)	33.01
Wt. of Tare & DS (gm)	28.43
Wt. of Tare (gm)	15.56
Wt. of Water (gm)	4.6
Wt. of DS (gm)	12.9
Moisture Content (%)	**35.6**
Number of Blows	**25**

Plastic Limit Test	**1**	**2**	**Range**
Tare Number	15	18	
Wt. of Tare & WS (gm)	17.61	17.25	
Wt. of Tare & DS (gm)	15.46	15.19	
Wt. of Tare (gm)	6.98	6.99	
Wt. of Water (gm)	2.2	2.1	
Wt. of DS (gm)	8.5	8.2	
Moisture Content (%)	**25.4**	**25.1**	**0.2**

Note: The acceptable range of the two Moisture contents is ± 2.6

Test Results	
Liquid Limit (%)	**36**
Plastic Limit (%)	**25**
Plasticity Index (%)	**11**
USCS Symbol	**ML**

Plasticity Chart



Tested By *129-07-0411* *Date* *9/4/20* *Checked By* *GEM* *Date* *9/8/20*

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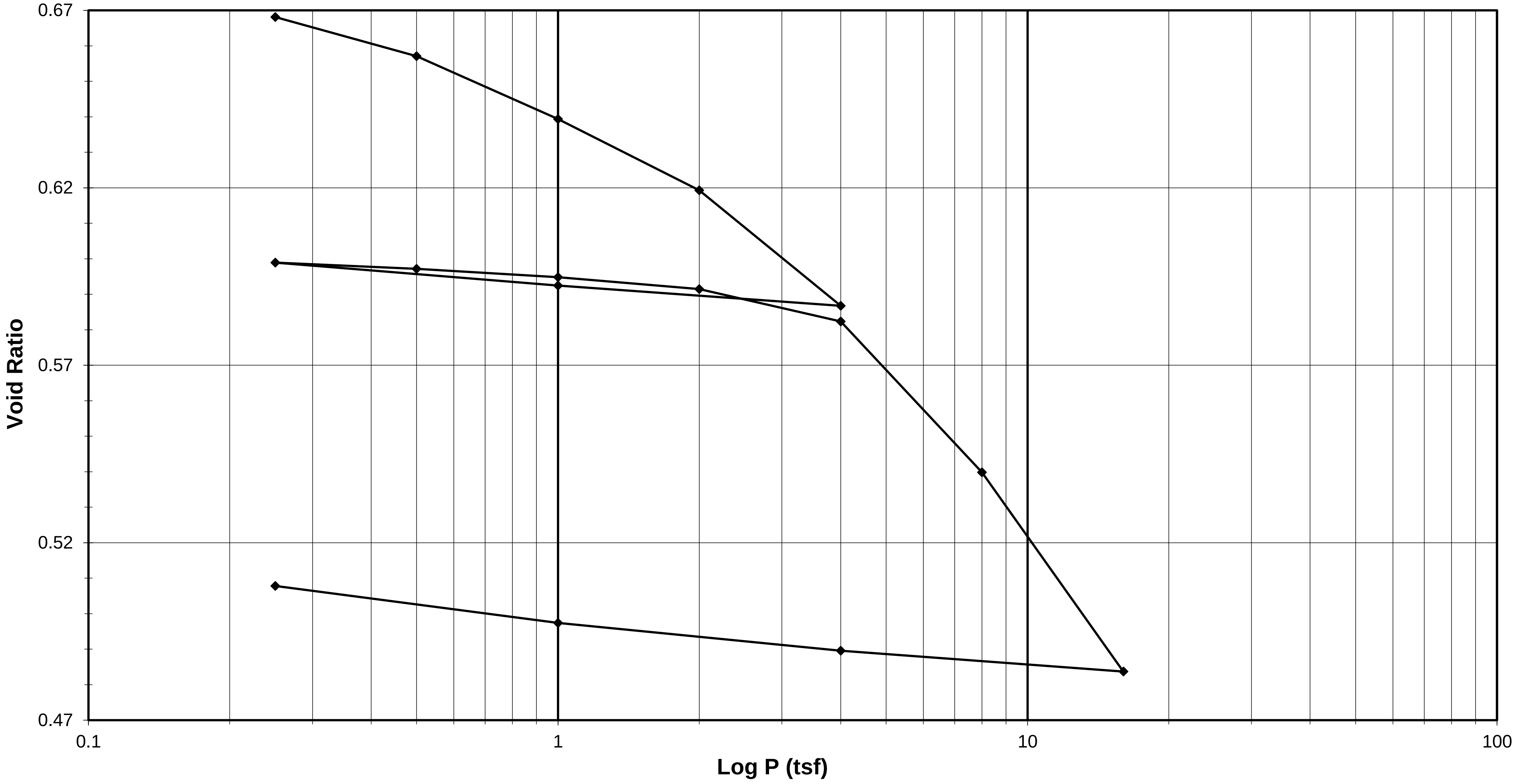
ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Tested By *129-07-0411* *Date* *9/2/2020* *Approved By* *MPS* *Date* *9/8/2020*

DCN: CT-24E Date: 5/3/12 Revision: 6 ***Z:\2020 PROJECTS\Terracon\2020-175 Terracon - Widening NC-115\[175-001-001 DOT GEOJAC-16TSF1 Cv.xlsm]FINAL PLOT***

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. R409

1 Division = 0.0001 (in.)

Sample Properties	**Initial**	**Final**
Water Content		
Tare Number	TB-08	854
Wt. Tare & WS (g)	340.43	283.80
Wt. Tare & DS (g)	310.66	260.31
Wt. Water (g)	29.77	23.49
Wt. Tare (g)	135.63	134.82
Wt. DS (g)	175.03	125.49
Water Content (%)	17.01	18.72
Sample Parameters		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1.0000	0.8944
Sample Volume (cc)	80.44	71.95
Wt. Wet Sample + Ring (g)	365.45	367.65
Wt. of Ring (g)	214.71	214.71
Wt. of Wet Sample (g)	150.74	152.94
Wet Density (pcf)	116.93	132.65
Wet Density (g/cc)	1.87	2.13
Water Content (%)	17.01	18.72
Wt. of Dry Sample (g)	128.83	128.83
Dry Density (pcf)	99.94	111.73
Dry Density (g/cc)	1.60	1.79
Void Ratio	0.6859	0.5079
Saturation (%)	66.96	99.52
Specific Gravity	2.70	*Assumed*

Test Data Summary

Applied Pressure (tsf)	**Final Dial Reading** (div)	**Machine Deflection** (div)	**Corrected Reading** (div)	**Height of Sample** (mm)	**Volume (cc)**	**Dry Density** (g/cc)	**Void Ratio**
Seating	0	0	0	25.400	80.440	1.60155	**0.68587**
0.25	116.0	10.7	105.3	25.132	79.593	1.61860	**0.66811**
0.5	200.8	30.0	170.8	24.966	79.066	1.62938	**0.65707**
1	322.7	47.1	275.6	24.700	78.223	1.64694	**0.63940**
2	469.2	74.4	394.8	24.397	77.264	1.66737	**0.61932**
4	689.1	101.3	587.8	23.907	75.712	1.70156	**0.58678**
1	624.0	69.8	554.2	23.992	75.982	1.69552	**0.59244**
0.25	550.3	34.5	515.8	24.090	76.291	1.68864	**0.59892**
0.5	566.8	40.8	526.0	24.064	76.209	1.69047	**0.59719**
1	595.4	55.4	540.0	24.029	76.096	1.69296	**0.59484**
2	637.2	77.3	560.0	23.978	75.935	1.69655	**0.59147**
4	716.4	102.2	614.2	23.840	75.499	1.70635	**0.58233**
8	1012.9	146.5	866.4	23.199	73.471	1.75347	**0.53981**
16	1399.1	199.9	1199.2	22.354	70.794	1.81977	**0.48370**
4	1302.9	138.4	1164.5	22.442	71.072	1.81263	**0.48955**
1	1204.7	86.8	1117.9	22.561	71.448	1.80311	**0.49741**
0.25	1101.5	45.6	1055.9	22.718	71.946	1.79062	**0.50785**

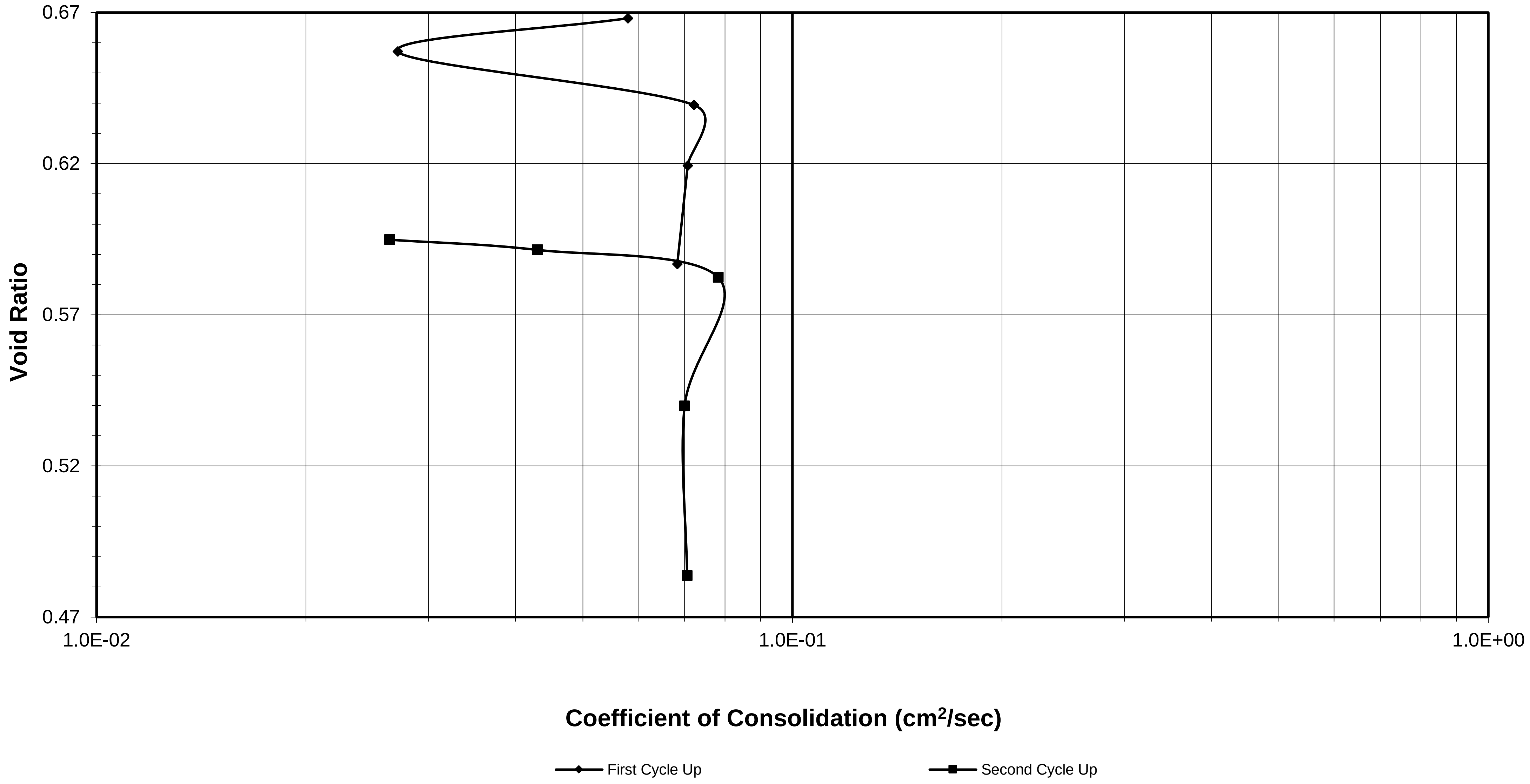
Tested By *129-07-0411* *Date* *9/2/2020* *Input Checked By* *GEM* *Date* 9/8/2020

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Tested By *129-07-0411* *Date* *9/2/2020* *Input Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	Terracon	Boring No.	RWAL4-3
Client Reference	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED
Consolidometer No. R409
1 Division = 0.0001 (in.)

Sample Properties	**Initial**	**Final**
Water Content		
Tare Number	TB-08	854
Wt. Tare & WS (g)	340.43	283.80
Wt. Tare & DS (g)	310.66	260.31
Wt. Water (g)	29.77	23.49
Wt. Tare (g)	135.63	134.82
Wt. DS (g)	175.03	125.49
Water Content (%)	17.01	18.72
Sample Parameters		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1.000	0.894
Sample Volume (cc)	80.44	71.95
Wt. Wet Sample + Ring (g)	365.45	367.65
Wt. of Ring (g)	214.71	214.71
Wt. of Wet Sample (g)	150.74	152.94
Wet Density (pcf)	116.93	132.65
Wet Density (g/cc)	1.87	2.13
Water Content (%)	17.01	18.72
Wt. of Dry Sample (g)	128.83	128.83
Dry Density (pcf)	99.94	111.73
Dry Density (g/cc)	1.60	1.79
Void Ratio	0.6859	0.5079
Saturation (%)	66.96	99.52
Specific Gravity	*2.7*	*Assumed*

C_v Test Data Summary

Load Increment (tsf)	**Dial Reading** @ t_{50} (div)	**Machine Deflection** (div)	**Corrected Dial Reading** @ t_{50} (div)	**Sample Height** @ t_{50} (cm)	**Time** t_{50} (min.)	**C_v** **(cm^2/sec)**
0 - 0.25	79.0	10.7	68.3	2.523	**0.09**	**0.05804**
0.25 - 0.5	171.4	30.0	141.4	2.504	**0.19**	**0.02709**
0.5 - 1.0	279.6	47.1	232.5	2.481	**0.07**	**0.07218**
1.0 - 2.0	406.8	74.4	332.3	2.456	**0.07**	**0.07071**
2.0 - 4.0	598.3	101.3	497.0	2.414	**0.07**	**0.06832**
4.0 - 1.0	NA	69.8	NA	NA	**NA**	**NA**
1.0 - 0.25	NA	34.5	NA	NA	**NA**	**NA**
0.25 - 0.5	NA	40.8	NA	NA	**NA**	**NA**
0.5 - 1.0	587.5	55.4	532.0	2.405	**0.18**	**0.02637**
1.0 - 2.0	625.2	77.3	547.9	2.401	**0.11**	**0.04301**
2.0 - 4.0	686.9	102.2	584.7	2.391	**0.06**	**0.07824**
4.0 - 8.0	878.0	146.5	731.5	2.354	**0.07**	**0.06999**
8.0 - 16.0	1257.8	199.9	1057.9	2.271	**0.06**	**0.07057**
16.0 - 4.0	NA	138.4	NA	NA	**NA**	**NA**
4.0 - 1.0	NA	86.8	NA	NA	**NA**	**NA**
1.0 - 0.25	NA	45.6	NA	NA	**NA**	**NA**

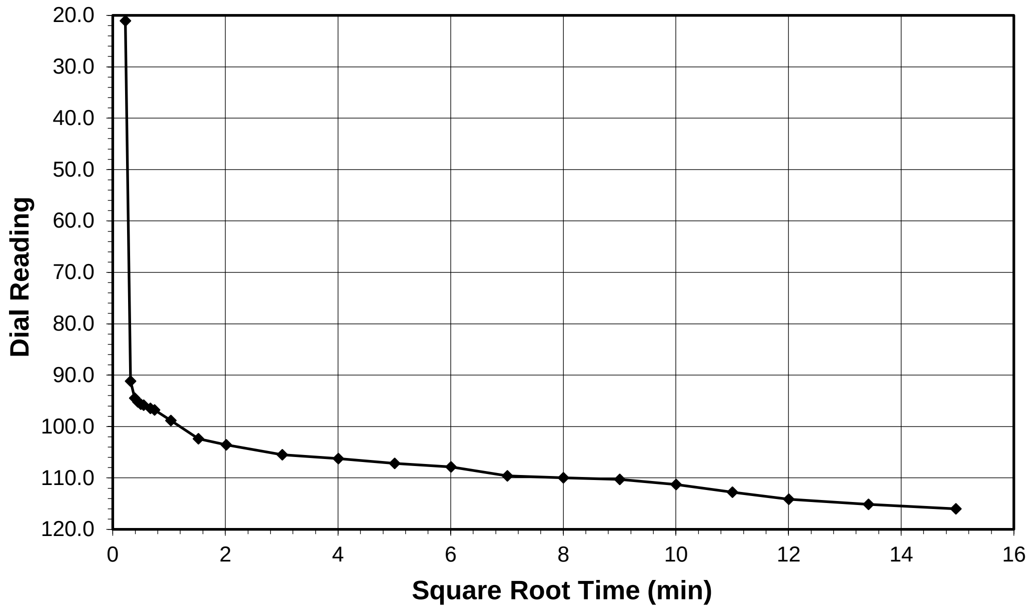
Tested By *129-07-0411* *Date* *9/2/2020* *Input Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

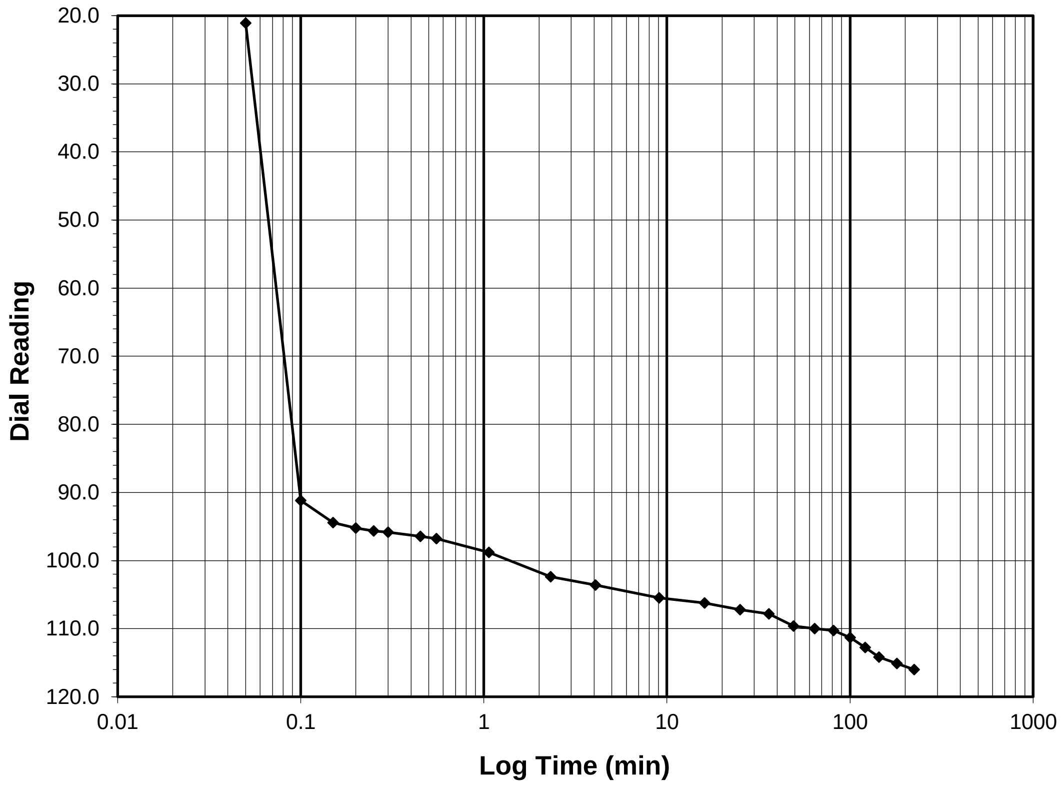
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**0.0-0.25**
Final Reading	**(div)**	**116.0**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/2/2020
Start Time		8:45:24

Elapsed Time (min)	Dial Reading (div)
Initial	**0.0**
0.05	21.1
0.10	91.2
0.15	94.4
0.20	95.2
0.25	95.7
0.30	95.8
0.45	96.4
0.55	96.8
1.07	98.8
2.32	102.4
4.07	103.6
9.07	105.5
16.07	106.2
25.07	107.2
36.07	107.8
49.07	109.6
64.07	110.0
81.07	110.3
100.07	111.3
121.07	112.8
144.07	114.2
180.07	115.1
224.15	116.0



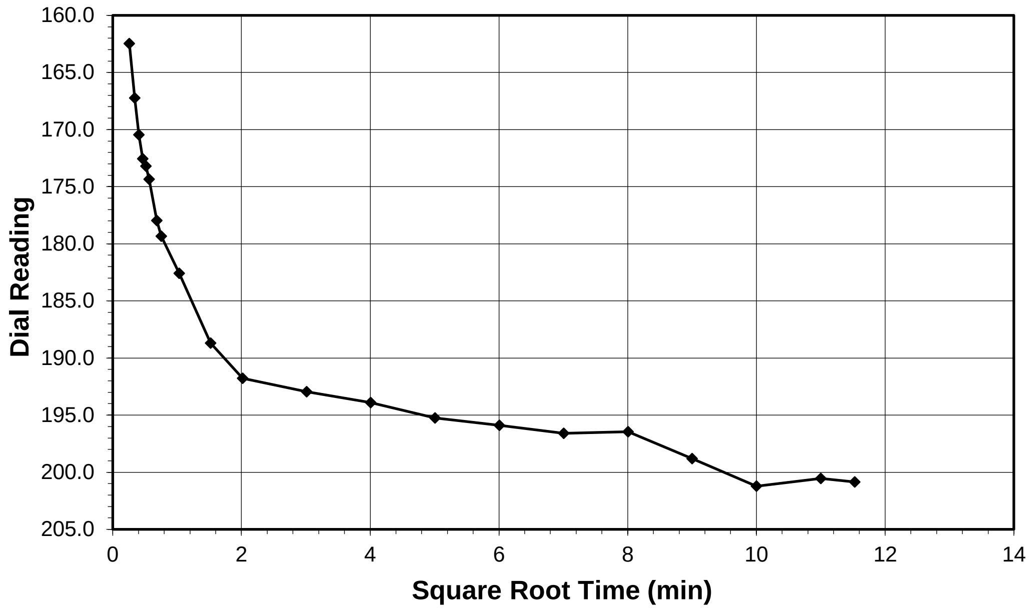
Tested By *129-07-0411* *Date* *9/2/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

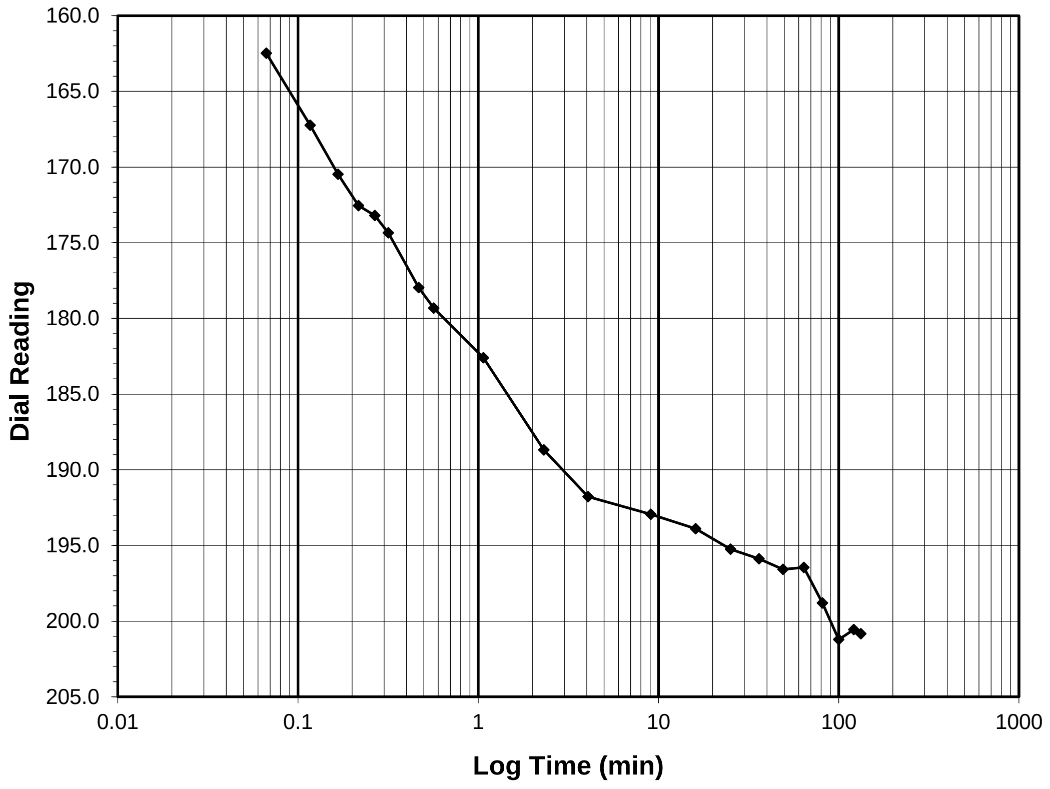
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**0.25-0.5**
Final Reading	**(div)**	**200.8**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/2/2020
Start Time		12:29:34

Elapsed Time (min)	Dial Reading (div)
Initial	**116.0**
0.07	162.5
0.12	167.2
0.17	170.5
0.22	172.6
0.27	173.2
0.32	174.3
0.47	178.0
0.57	179.3
1.07	182.6
2.32	188.7
4.07	191.8
9.07	192.9
16.07	193.9
25.07	195.3
36.07	195.9
49.07	196.6
64.07	196.5
81.07	198.8
100.07	201.2
121.07	200.6
132.88	200.8



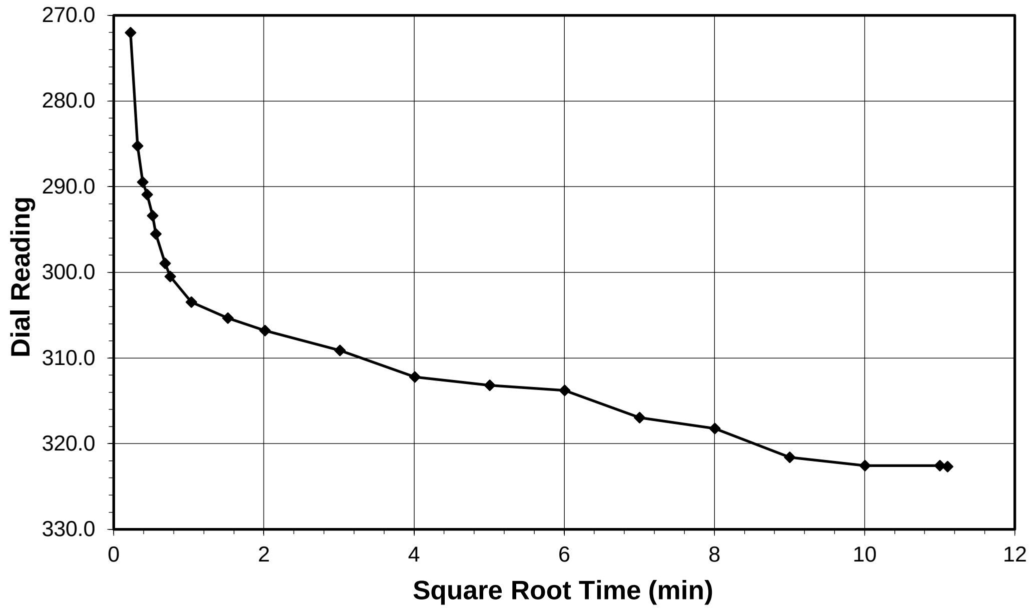
Tested By *129-07-0411* *Date* *9/2/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

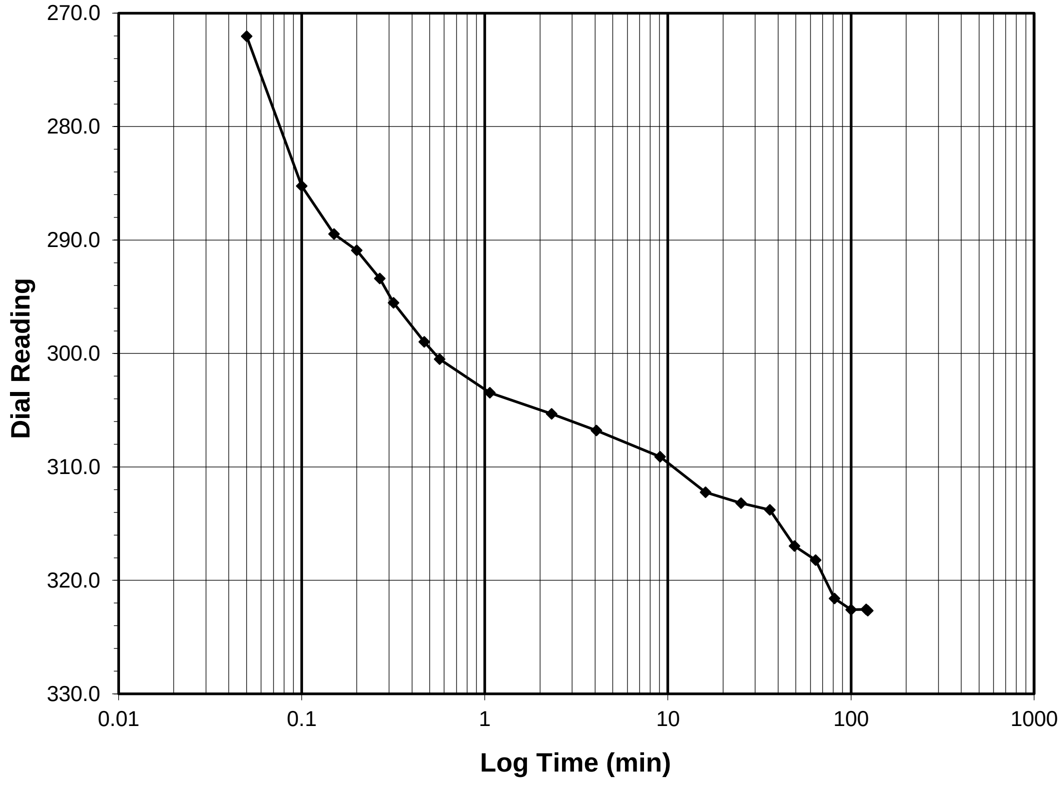
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**0.5-1.0**
Final Reading	**(div)**	**322.7**
Consolidometer No.		**R409**
1 Division	(in)	0.0001

Start Date	9/2/2020
Start Time	14:42:26

Elapsed Time (min)	Dial Reading (div)
Initial	**200.8**
0.05	272.0
0.10	285.2
0.15	289.5
0.20	290.9
0.27	293.4
0.32	295.5
0.47	299.0
0.57	300.5
1.07	303.5
2.32	305.3
4.07	306.8
9.07	309.1
16.07	312.2
25.07	313.2
36.07	313.8
49.07	317.0
64.08	318.2
81.08	321.6
100.08	322.6
121.08	322.6
123.32	322.7



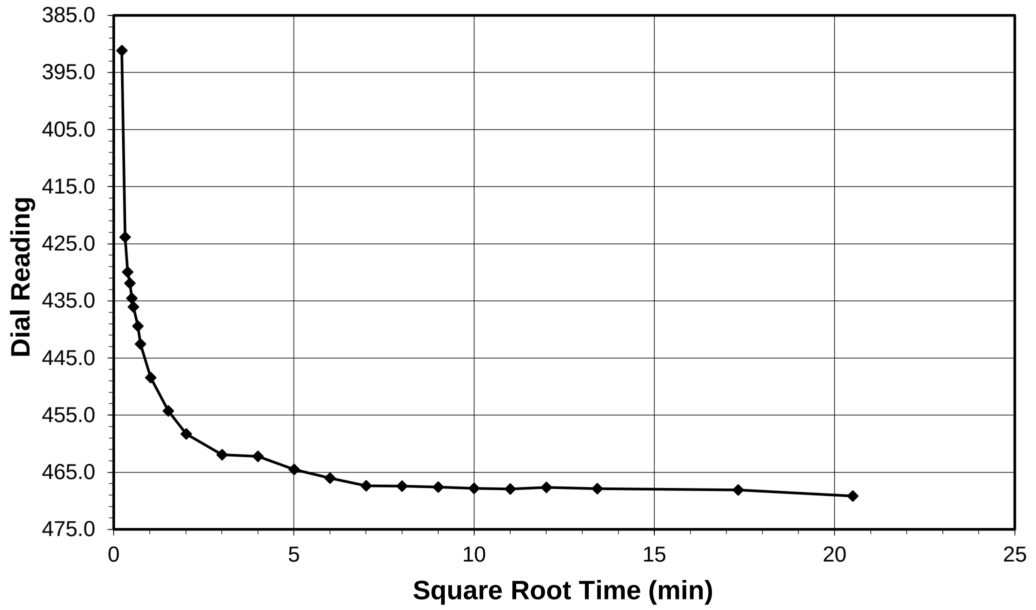
Tested By *129-07-0411* *Date* *9/2/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

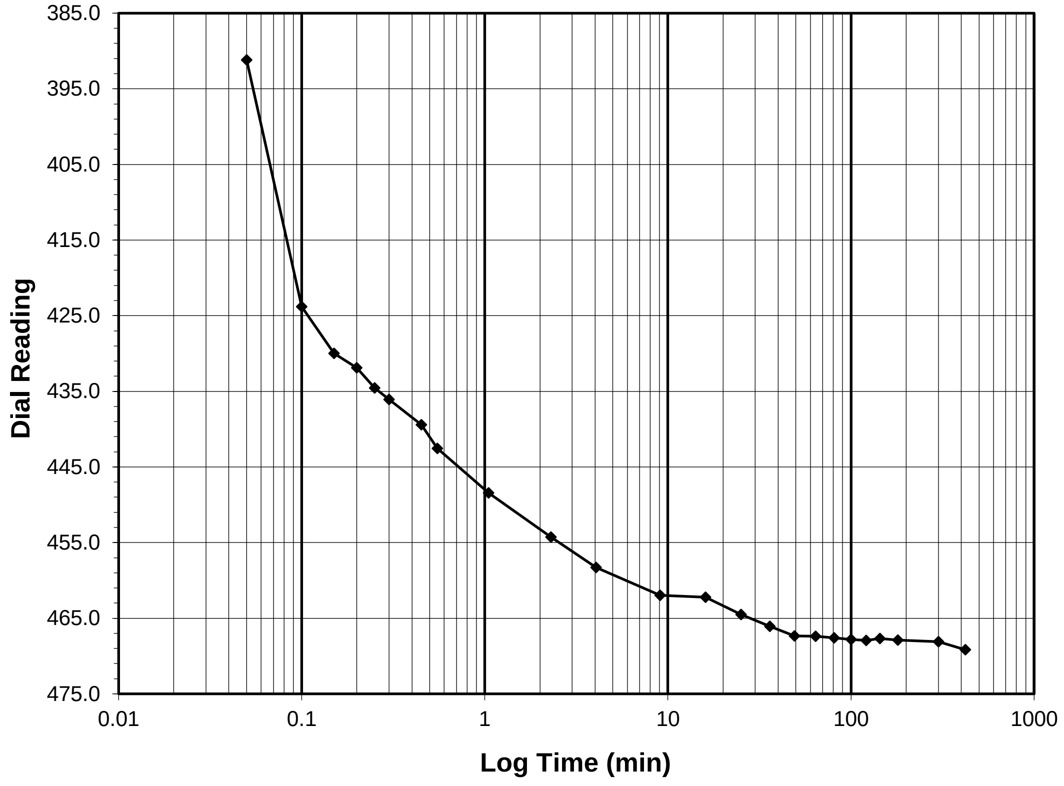
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**1.0-2.0**
Final Reading	**(div)**	**469.2**
Consolidometer No.		**R409**
1 Division	(in)	0.0001

Start Date	9/2/2020
Start Time	16:45:46

Elapsed Time (min)	Dial Reading (div)
Initial	**322.7**
0.05	391.2
0.10	423.8
0.15	430.0
0.20	431.9
0.25	434.5
0.30	436.1
0.45	439.4
0.55	442.5
1.05	448.4
2.30	454.3
4.05	458.3
9.05	462.0
16.05	462.2
25.05	464.5
36.05	466.1
49.05	467.4
64.05	467.4
81.05	467.6
100.05	467.8
121.05	467.9
144.05	467.7
180.05	467.9
300.05	468.1
420.50	469.2



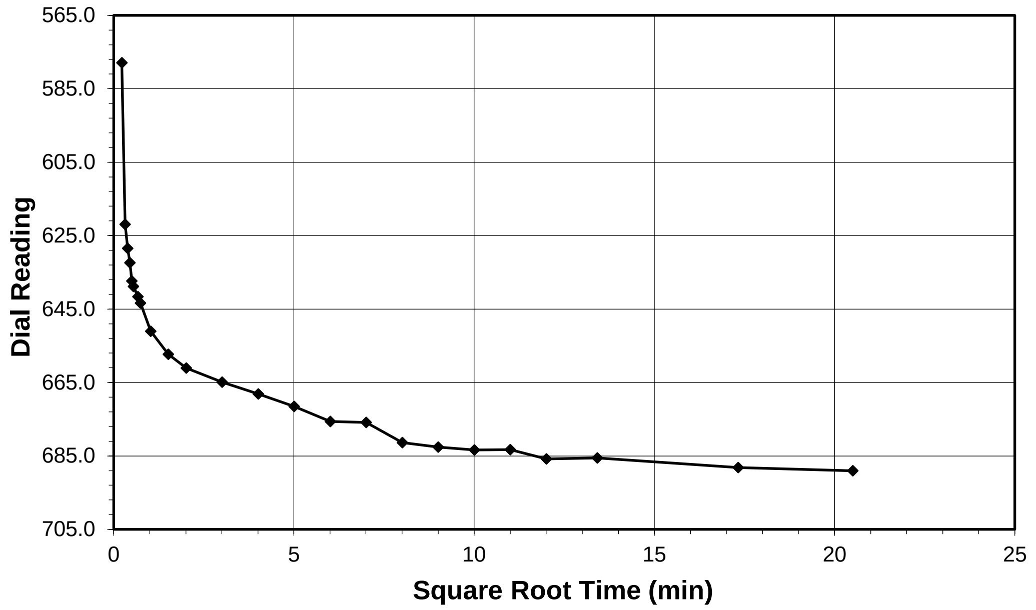
Tested By *129-07-0411* *Date* *9/2/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

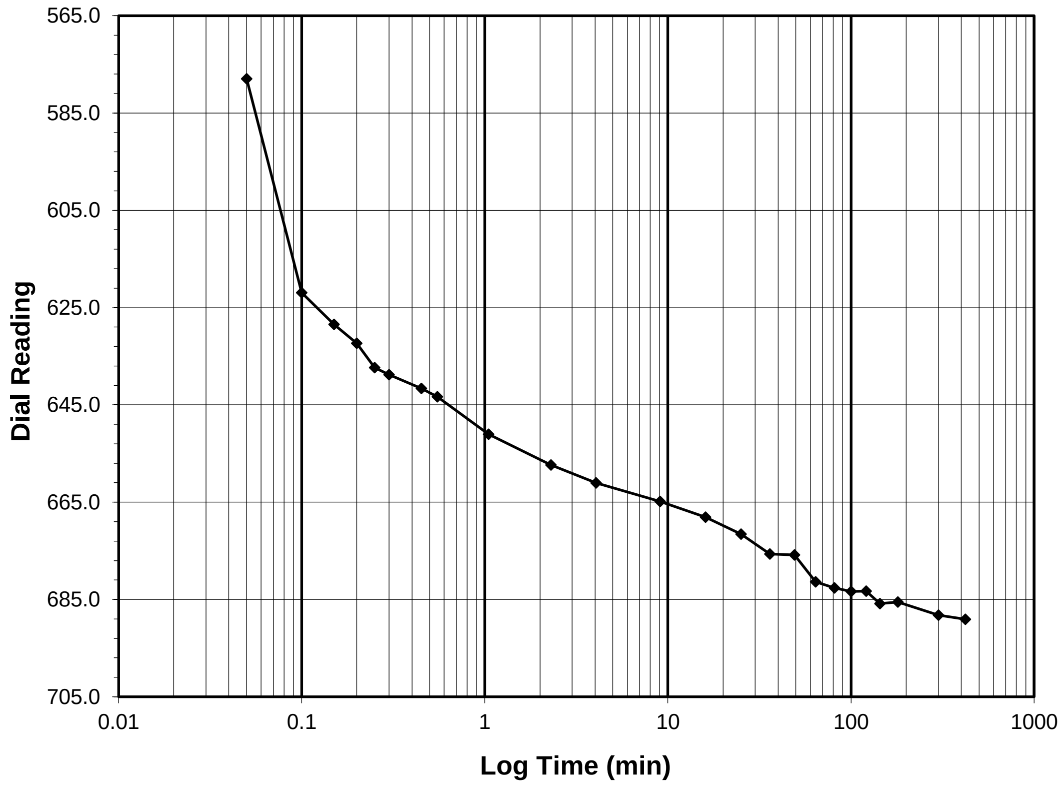
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**2.0-4.0**
Final Reading	**(div)**	**689.1**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/2/2020
Start Time		23:46:16

Elapsed Time (min)	Dial Reading (div)
Initial	**469.2**
0.05	578.0
0.10	621.9
0.15	628.4
0.20	632.4
0.25	637.3
0.30	638.8
0.45	641.6
0.55	643.3
1.05	651.0
2.30	657.3
4.05	661.1
9.05	664.9
16.07	668.1
25.07	671.6
36.07	675.6
49.07	675.9
64.07	681.4
81.07	682.6
100.07	683.3
121.07	683.3
144.07	685.8
180.07	685.5
300.07	688.2
420.47	689.1



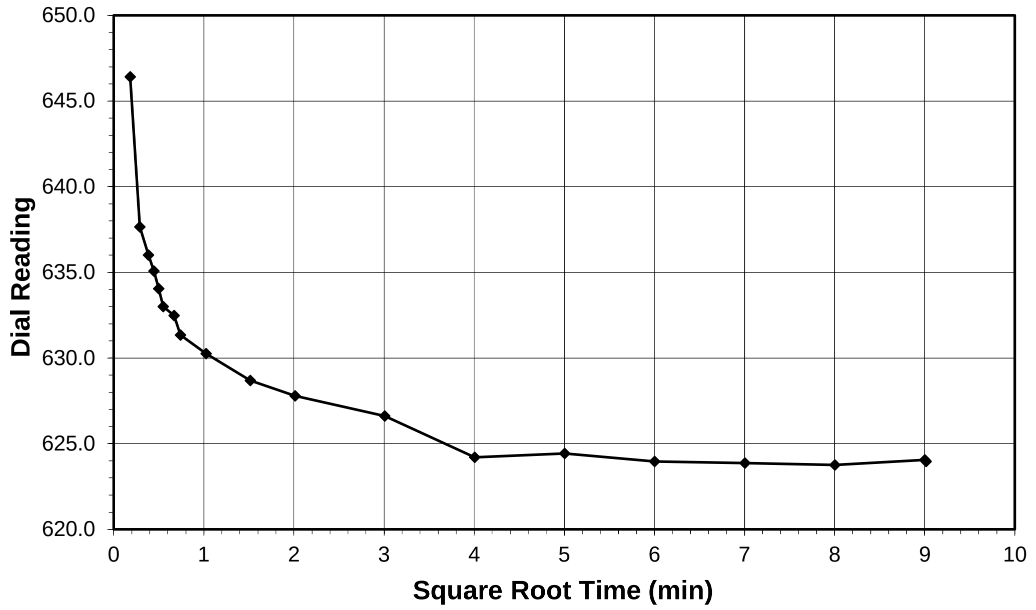
Tested By *129-07-0411* *Date* *9/2/2020* *Checked By* *GEM* *Date* 9/8/2020

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

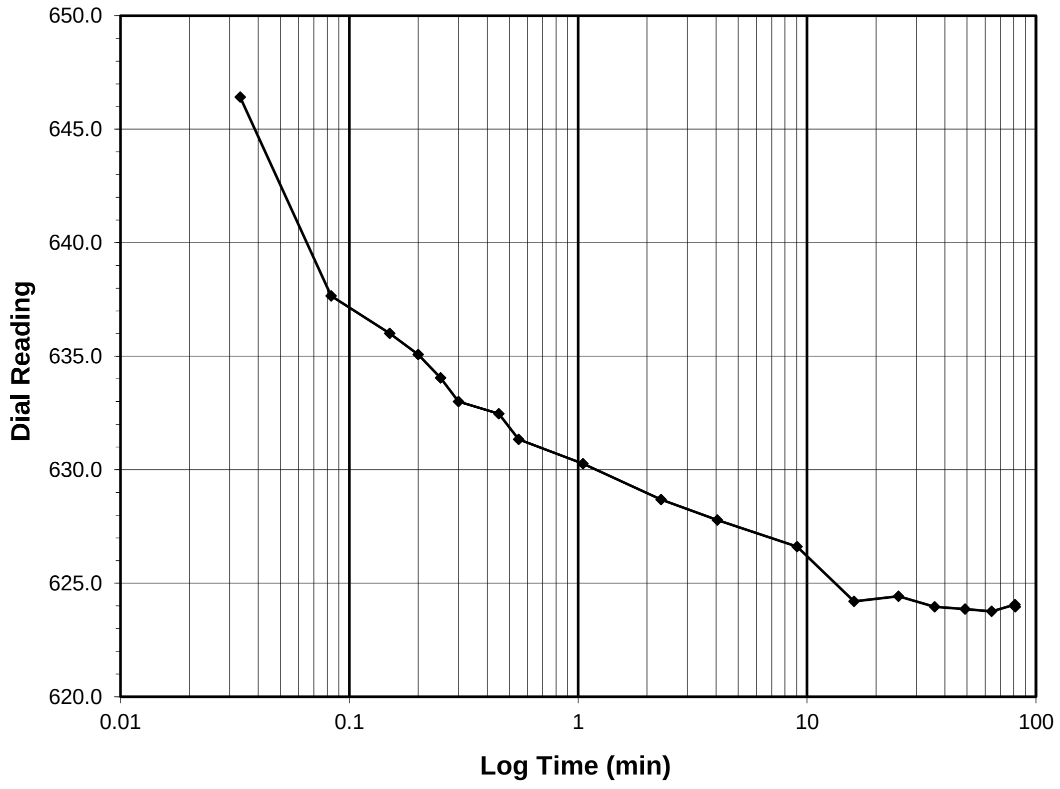
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**4.0-1.0**
Final Reading	**(div)**	**624.0**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		6:46:44

Elapsed Time (min)	Dial Reading (div)
Initial	**689.1**
0.03	646.4
0.08	637.7
0.15	636.0
0.20	635.1
0.25	634.0
0.30	633.0
0.45	632.5
0.55	631.3
1.05	630.3
2.30	628.7
4.05	627.8
9.05	626.6
16.05	624.2
25.05	624.4
36.05	624.0
49.05	623.9
64.05	623.8
81.05	624.1
81.30	624.0



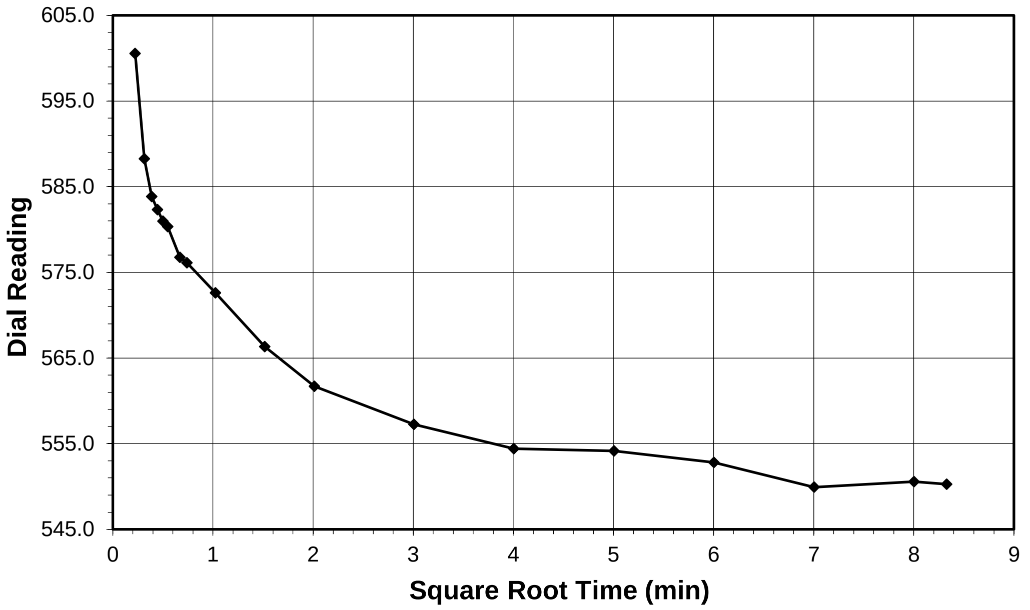
Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* 9/8/2020

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

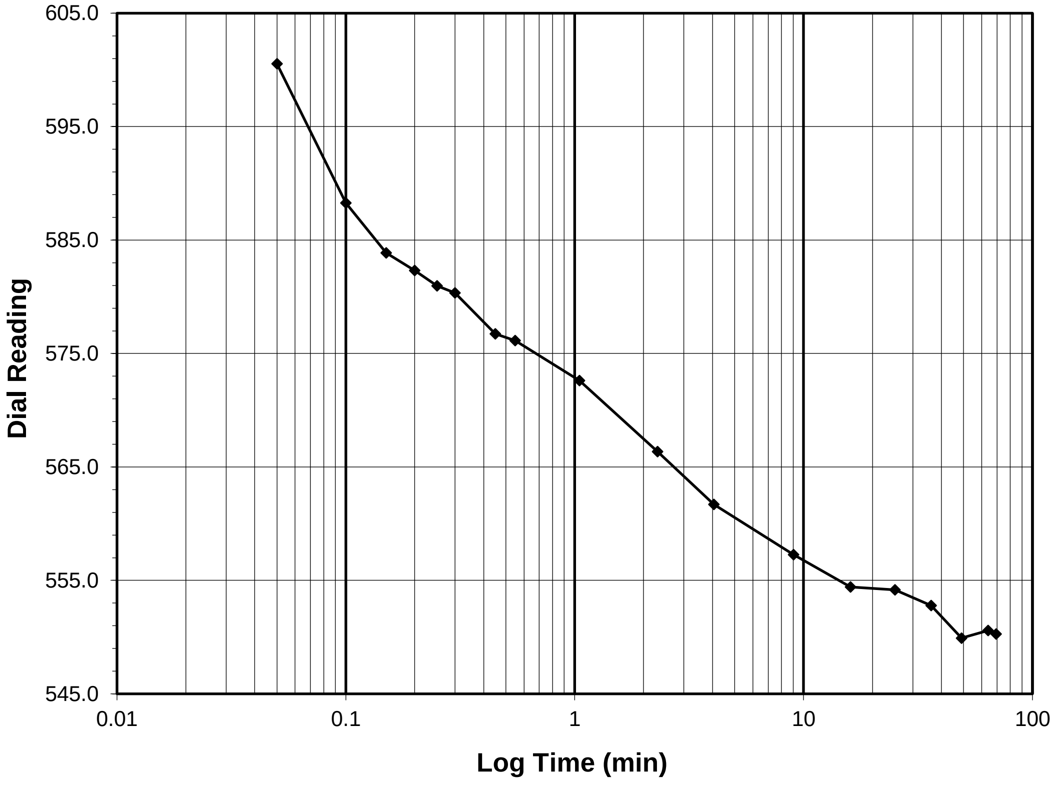
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**1.0-0.25**
Final Reading	**(div)**	**550.3**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		8:08:04

Elapsed Time (min)	Dial Reading (div)
Initial	**624.0**
0.05	600.5
0.10	588.3
0.15	583.9
0.20	582.3
0.25	581.0
0.30	580.3
0.45	576.7
0.55	576.1
1.05	572.6
2.30	566.3
4.05	561.7
9.05	557.3
16.05	554.4
25.05	554.2
36.05	552.8
49.05	549.9
64.05	550.6
69.38	550.3



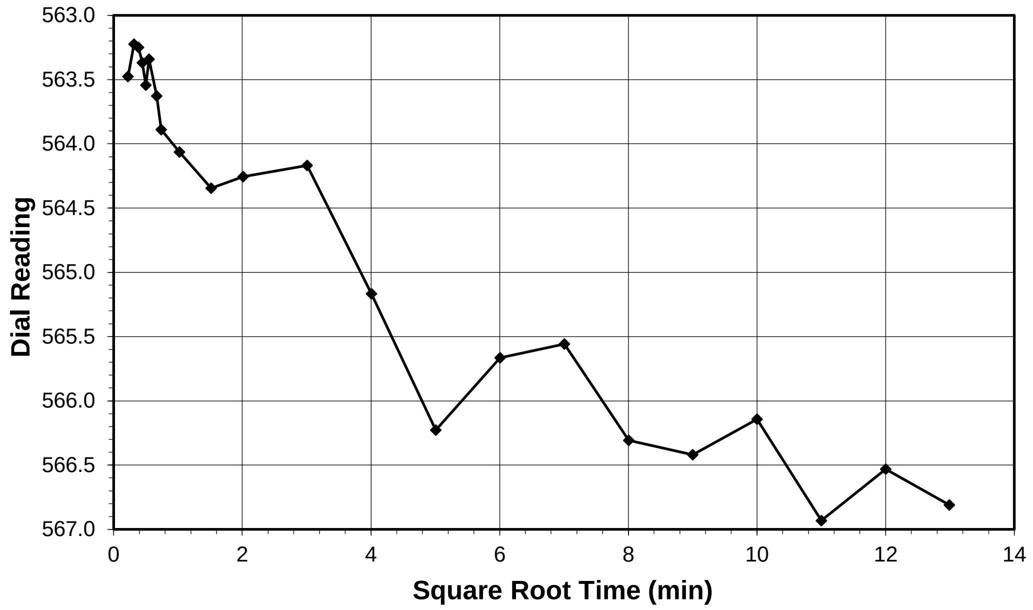
Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

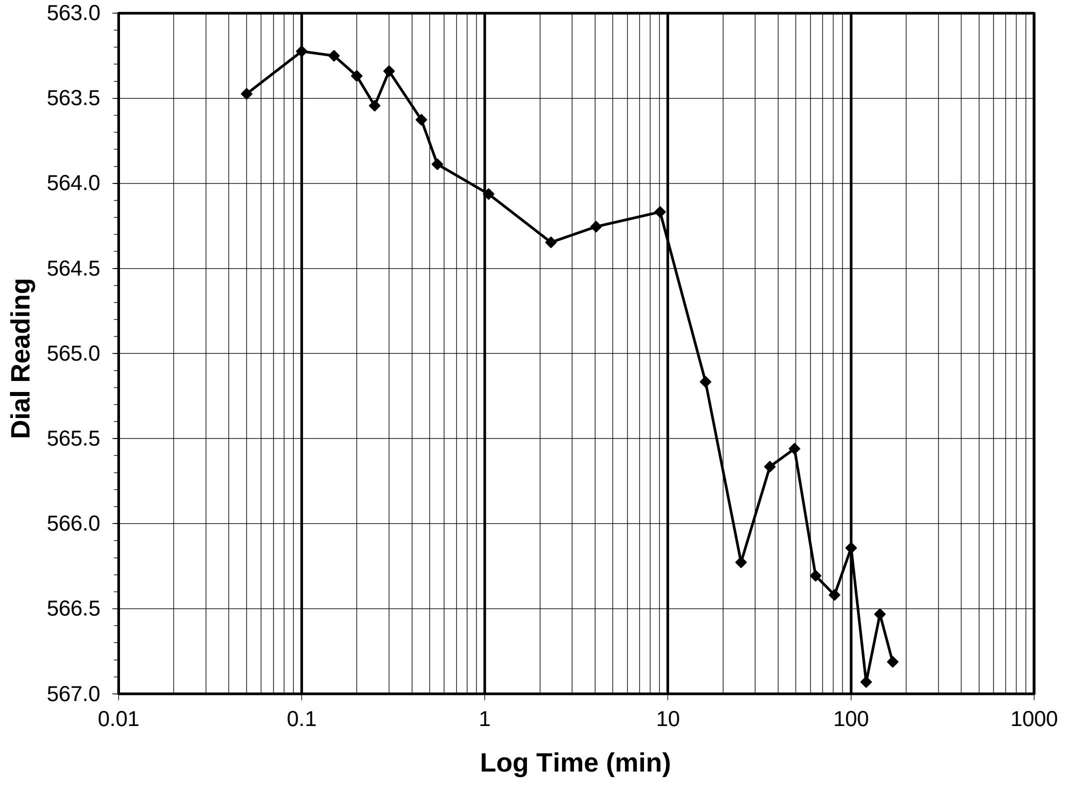
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**0.25-0.5**
Final Reading	**(div)**	**566.8**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		9:17:27

Elapsed Time (min)	Dial Reading (div)
Initial	**550.3**
0.05	563.5
0.10	563.2
0.15	563.2
0.20	563.4
0.25	563.5
0.30	563.3
0.45	563.6
0.55	563.9
1.05	564.1
2.30	564.3
4.05	564.3
9.05	564.2
16.05	565.2
25.07	566.2
36.07	565.7
49.07	565.6
64.07	566.3
81.07	566.4
100.07	566.1
121.07	566.9
144.07	566.5
168.77	566.8



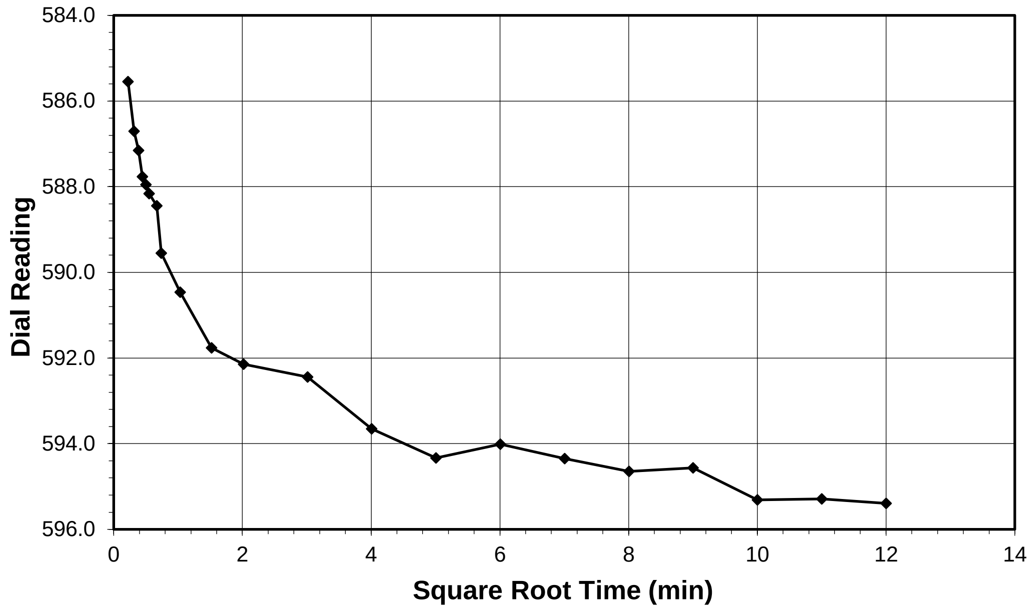
Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

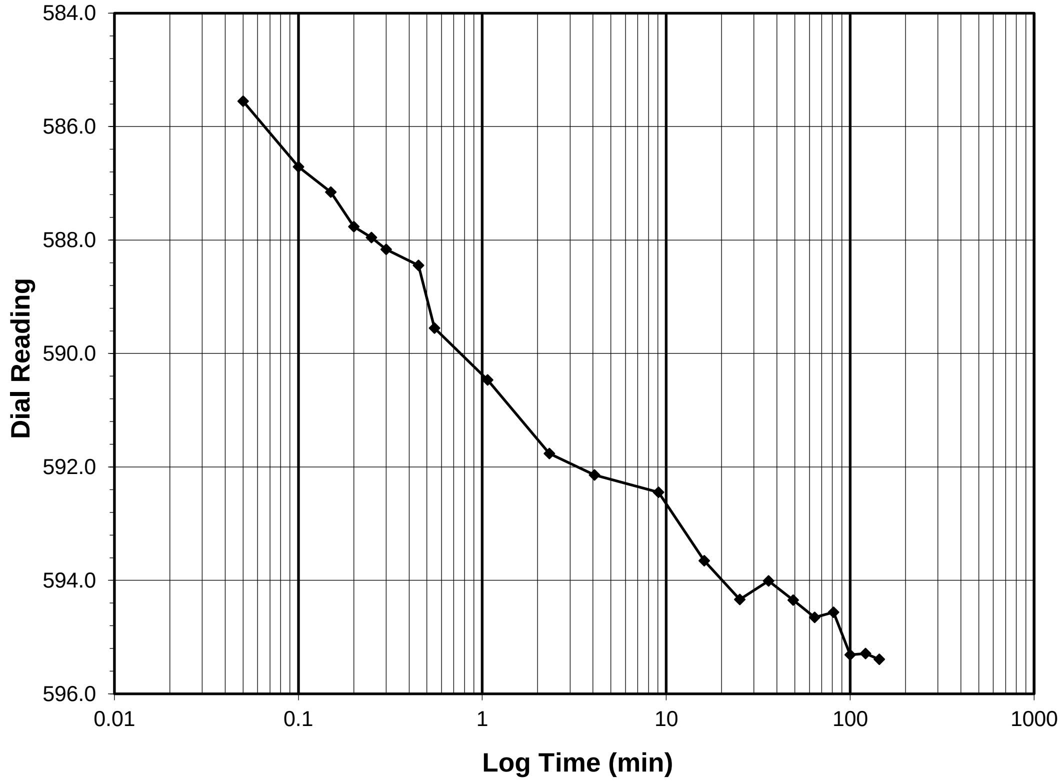
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**0.5-1.0**
Final Reading	**(div)**	**595.4**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		12:06:13

Elapsed Time (min)	Dial Reading (div)
Initial	**566.8**
0.05	585.6
0.10	586.7
0.15	587.2
0.20	587.8
0.25	588.0
0.30	588.2
0.45	588.4
0.55	589.6
1.07	590.5
2.32	591.8
4.07	592.1
9.07	592.4
16.07	593.7
25.07	594.3
36.07	594.0
49.07	594.3
64.07	594.6
81.07	594.6
100.07	595.3
121.07	595.3
144.07	595.4



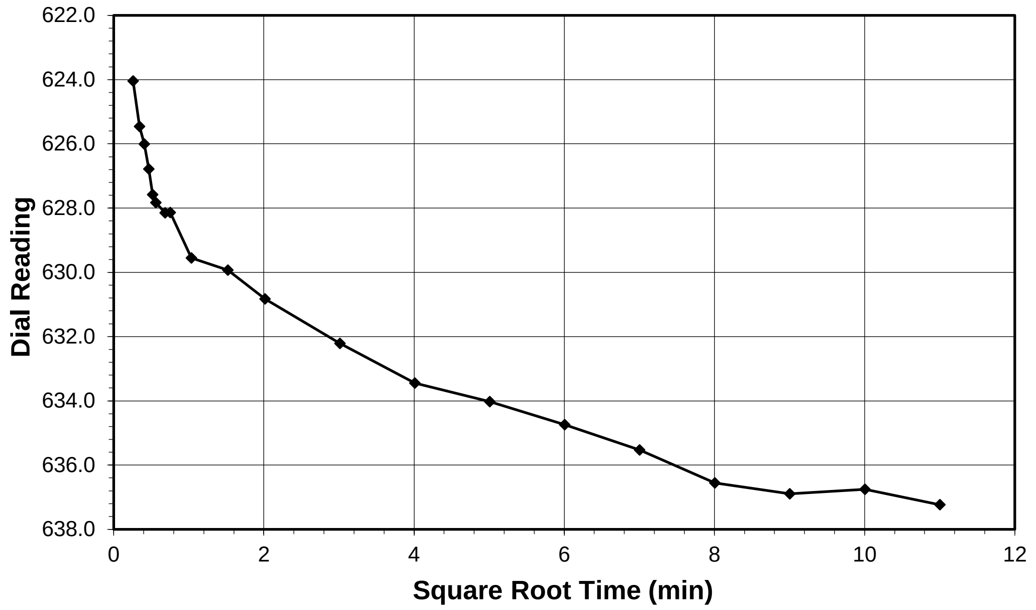
Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

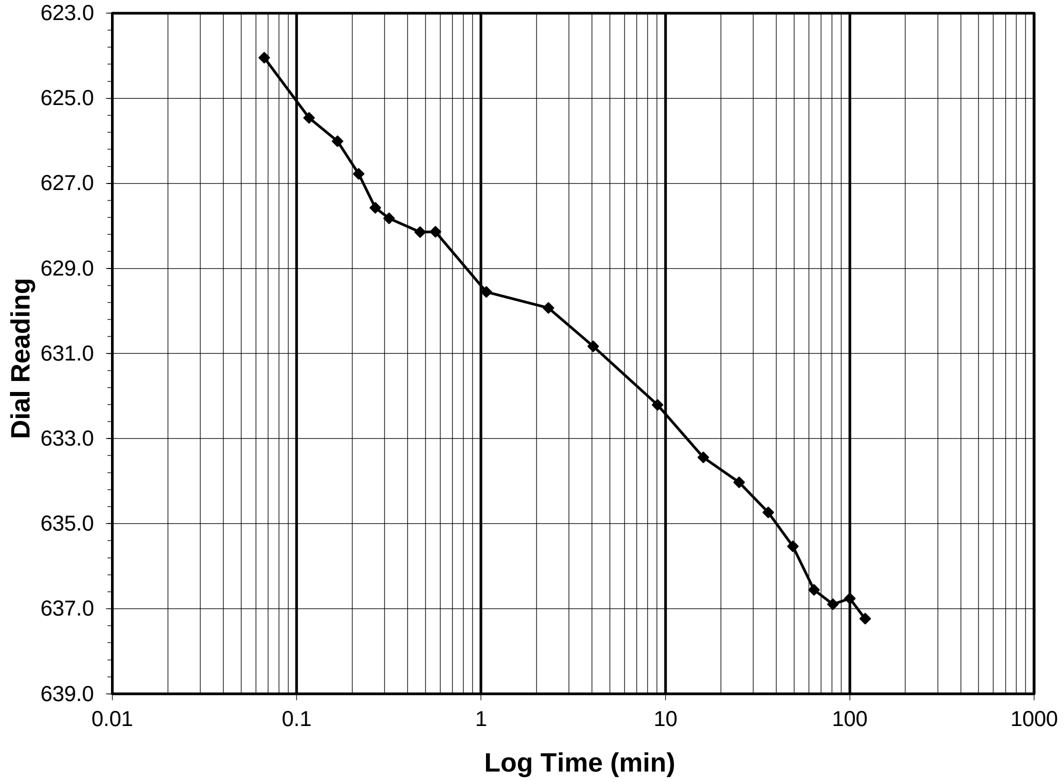
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**1.0-2.0**
Final Reading	**(div)**	**637.2**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		14:40:56

Elapsed Time (min)	Dial Reading (div)
Initial	**595.4**
0.07	624.0
0.12	625.5
0.17	626.0
0.22	626.8
0.27	627.6
0.32	627.8
0.47	628.1
0.57	628.1
1.07	629.5
2.32	629.9
4.07	630.8
9.07	632.2
16.07	633.4
25.07	634.0
36.07	634.7
49.07	635.5
64.08	636.6
81.08	636.9
100.08	636.8
121.08	637.2

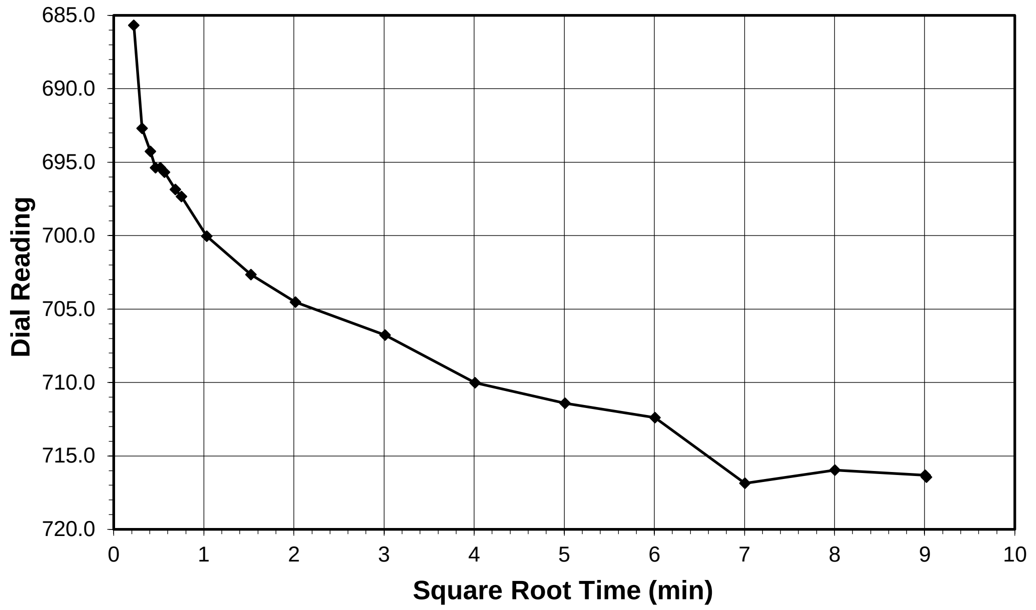


Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

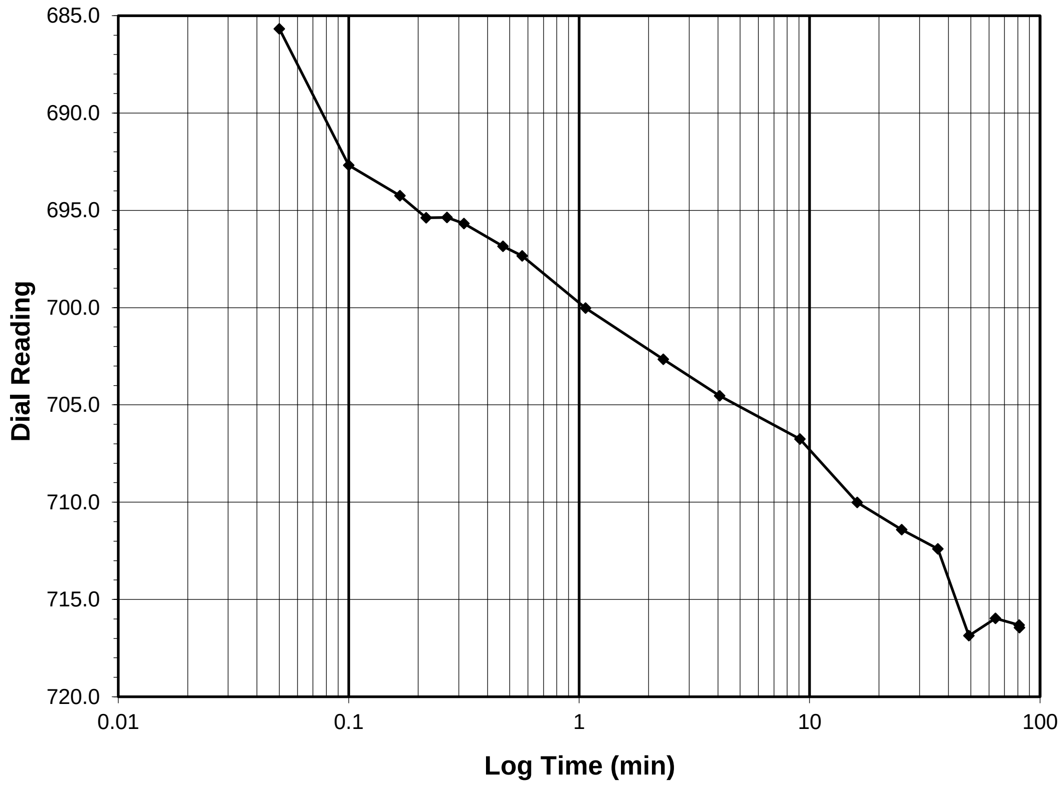
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**2.0-4.0**
Final Reading	**(div)**	**716.4**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		16:42:53

Elapsed Time (min)	Dial Reading (div)
Initial	**637.2**
0.05	685.7
0.10	692.7
0.17	694.3
0.22	695.4
0.27	695.4
0.32	695.7
0.47	696.9
0.57	697.3
1.07	700.0
2.32	702.7
4.07	704.5
9.07	706.8
16.07	710.0
25.07	711.4
36.07	712.4
49.07	716.9
64.07	716.0
81.07	716.3
81.33	716.4

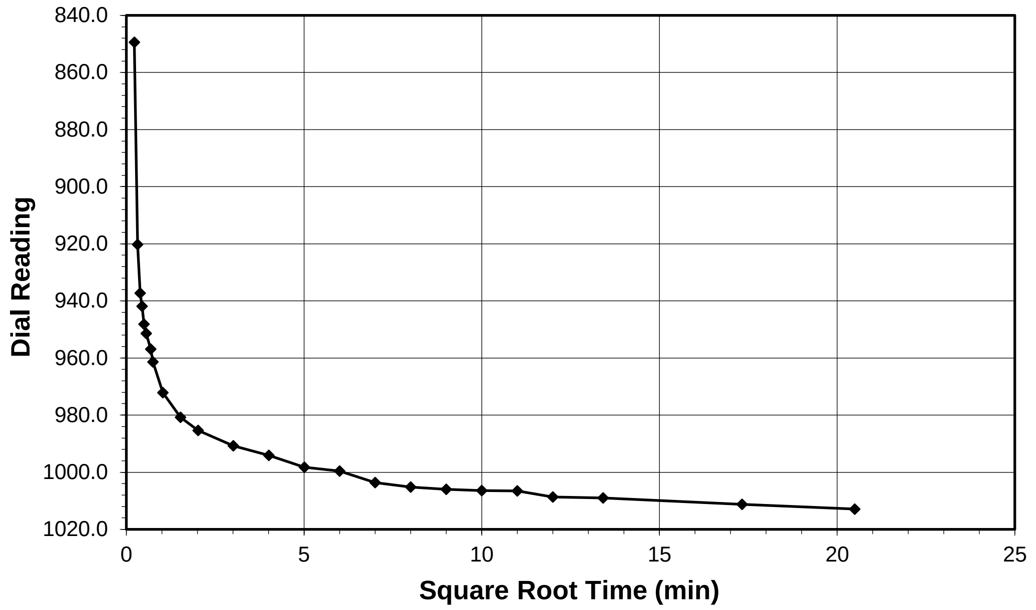


Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

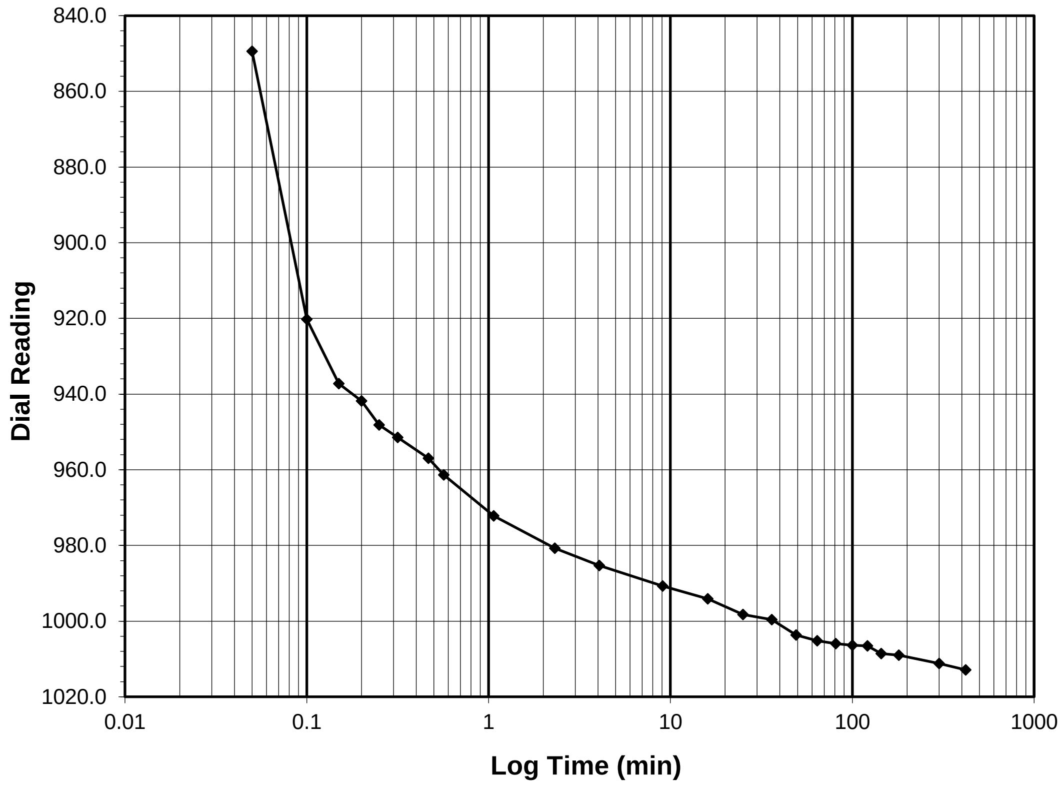
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**4.0-8.0**
Final Reading	**(div)**	**1012.9**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/3/2020
Start Time		18:04:13

Elapsed Time (min)	Dial Reading (div)
Initial	**716.4**
0.05	849.4
0.10	920.2
0.15	937.3
0.20	941.9
0.25	948.2
0.32	951.4
0.47	956.9
0.57	961.4
1.07	972.2
2.32	980.8
4.07	985.3
9.07	990.7
16.07	994.2
25.07	998.3
36.07	999.6
49.07	1003.7
64.07	1005.2
81.07	1005.9
100.07	1006.4
121.07	1006.6
144.07	1008.6
180.07	1009.0
300.07	1011.2
420.02	1012.9

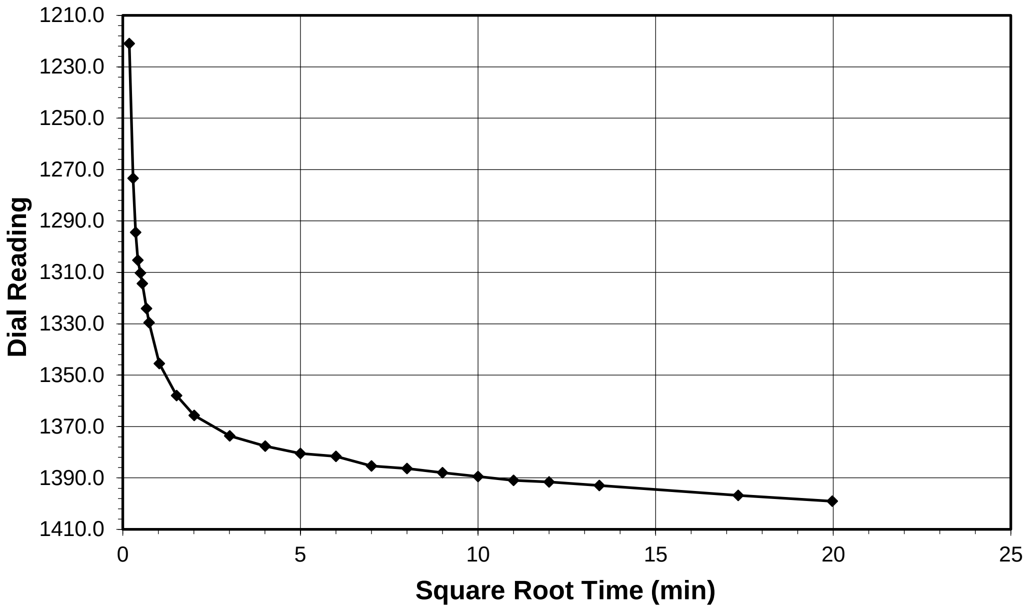


Tested By *129-07-0411* *Date* *9/3/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

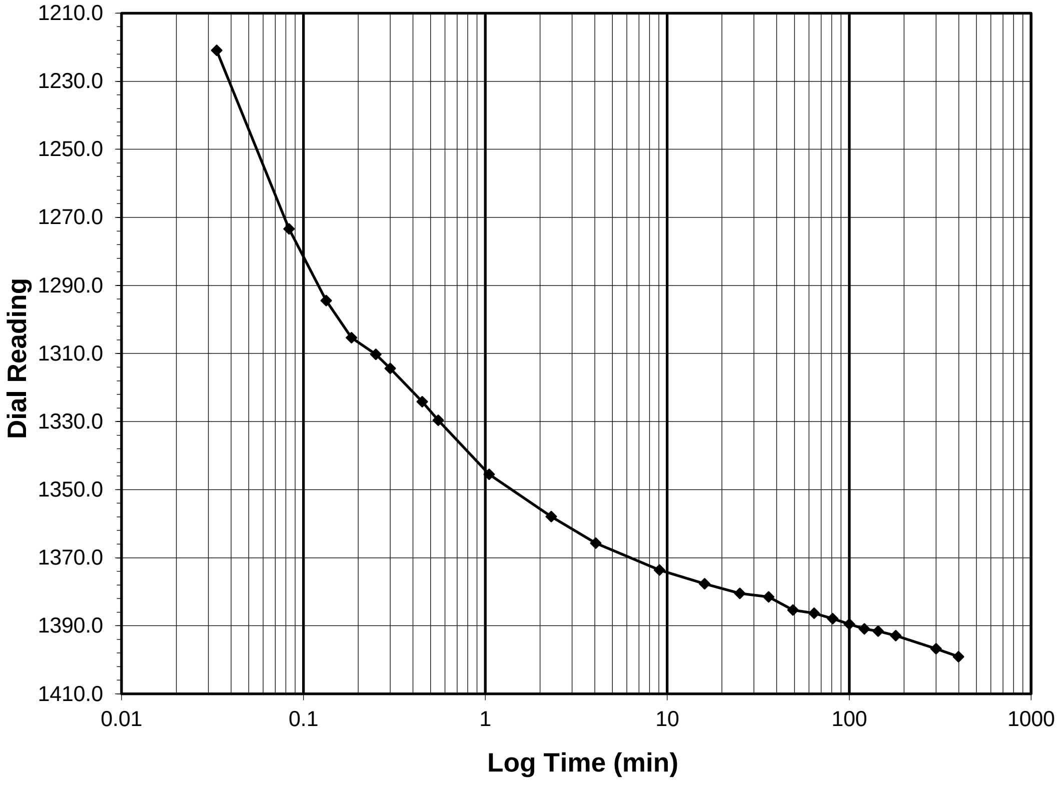
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**8.0-16.0**
Final Reading	**(div)**	**1399.1**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/4/2020
Start Time		1:04:14

Elapsed Time (min)	Dial Reading (div)
Initial	**1012.9**
0.03	1221.0
0.08	1273.3
0.13	1294.4
0.18	1305.3
0.25	1310.2
0.30	1314.4
0.45	1324.1
0.55	1329.6
1.05	1345.5
2.30	1357.9
4.05	1365.7
9.05	1373.6
16.05	1377.6
25.05	1380.5
36.05	1381.6
49.05	1385.4
64.05	1386.3
81.05	1387.9
100.05	1389.5
121.05	1391.0
144.05	1391.6
180.05	1392.9
300.05	1396.7
398.97	1399.1

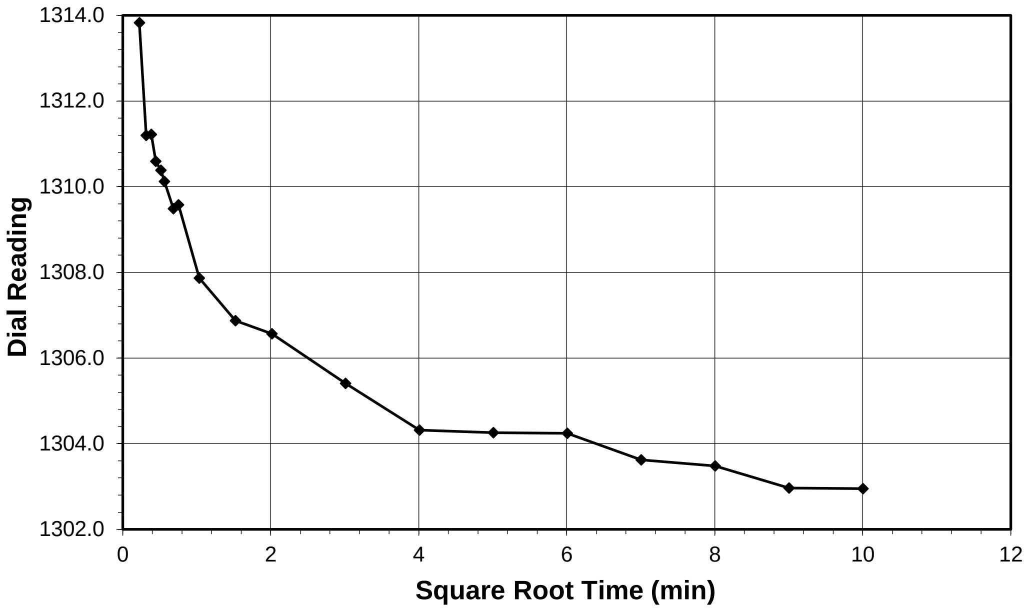


Tested By *129-07-0411* *Date* *9/4/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION
AASHTO T-216

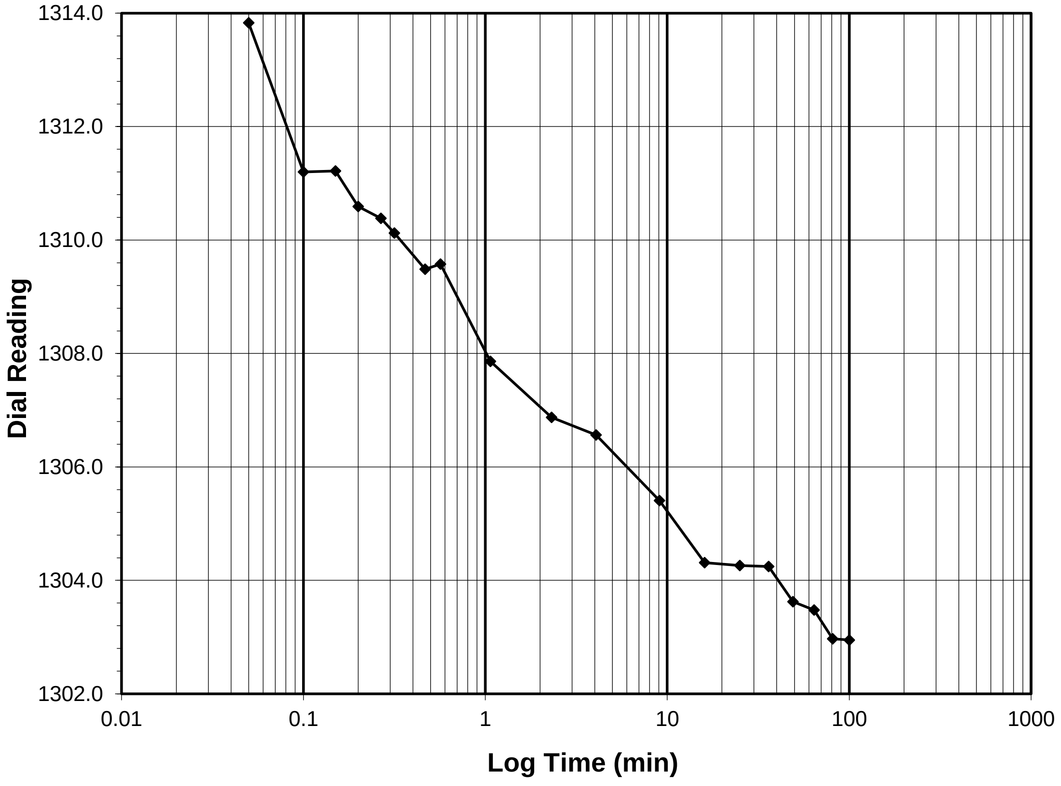
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**16.0-4.0**
Final Reading	**(div)**	**1302.9**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/4/2020
Start Time		7:43:13

Elapsed Time (min)	Dial Reading (div)
Initial	**1399.1**
0.05	1313.8
0.10	1311.2
0.15	1311.2
0.20	1310.6
0.27	1310.4
0.32	1310.1
0.47	1309.5
0.57	1309.6
1.07	1307.9
2.32	1306.9
4.07	1306.6
9.07	1305.4
16.07	1304.3
25.07	1304.3
36.07	1304.2
49.07	1303.6
64.07	1303.5
81.07	1303.0
100.07	1302.9



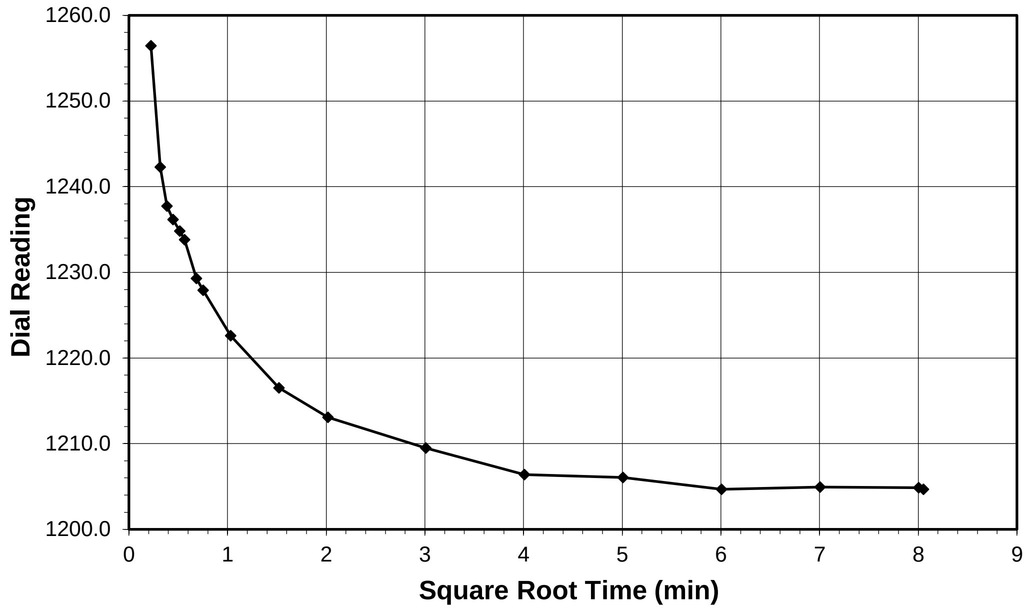
Tested By *129-07-0411* *Date* *9/4/2020* *Checked By* *GEM* *Date* *9/8/2020*

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

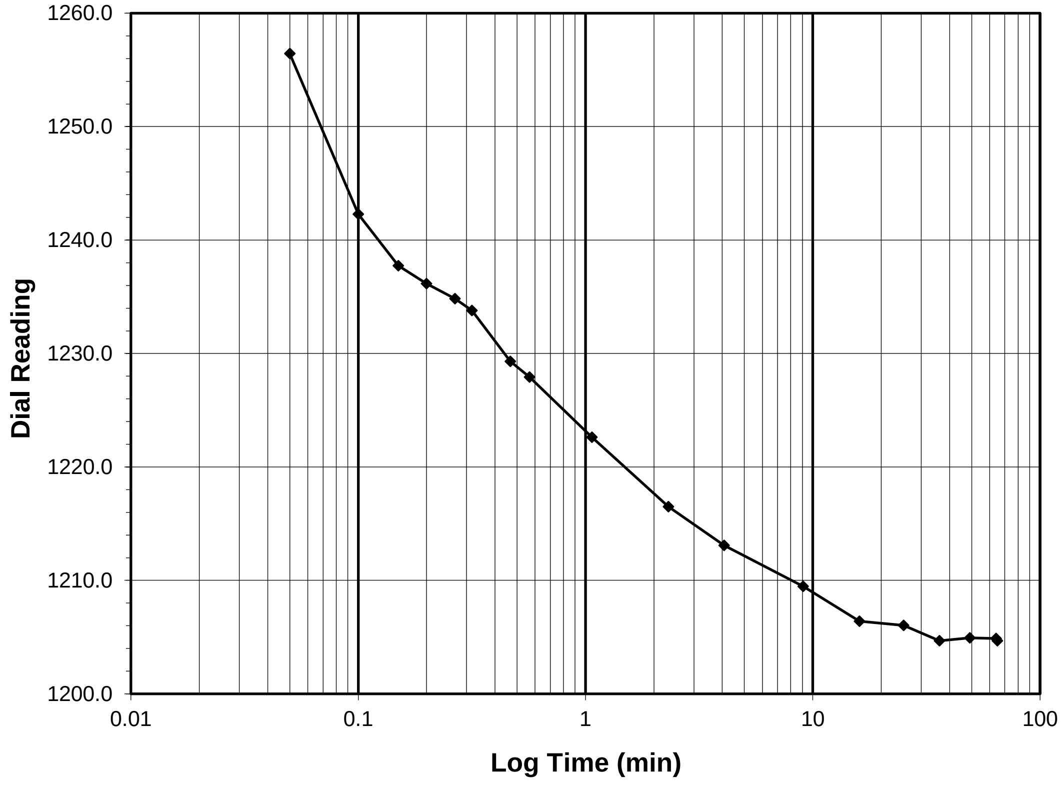
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**4.0-1.0**
Final Reading	**(div)**	**1204.7**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/4/2020
Start Time		9:23:54

Elapsed Time (min)	Dial Reading (div)
Initial	**1302.9**
0.05	1256.4
0.10	1242.3
0.15	1237.7
0.20	1236.2
0.27	1234.8
0.32	1233.8
0.47	1229.3
0.57	1227.9
1.07	1222.6
2.32	1216.5
4.07	1213.1
9.07	1209.5
16.07	1206.4
25.07	1206.0
36.07	1204.7
49.07	1204.9
64.07	1204.9
64.87	1204.7



Tested By *129-07-0411* *Date* *9/4/2020* *Checked By* *GEM* *Date* *9/8/2020*

page 1 of 1 DCN: CT-24E Date: 5/3/12 Revision: 3

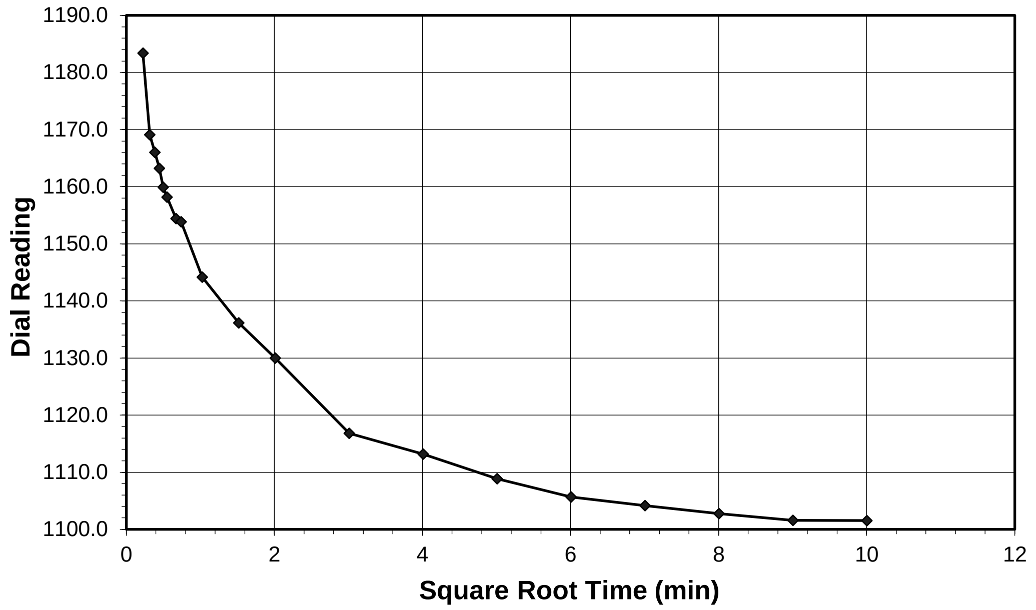
Z:\2020 PROJECTS\Terracon\2020-175 Terracon - Widening NC-115\[175-001-001 DOT GEOJAC-16TSF1 Cv.xlsm]FINAL PLOT

ONE DIMENSIONAL CONSOLIDATION

AASHTO T-216

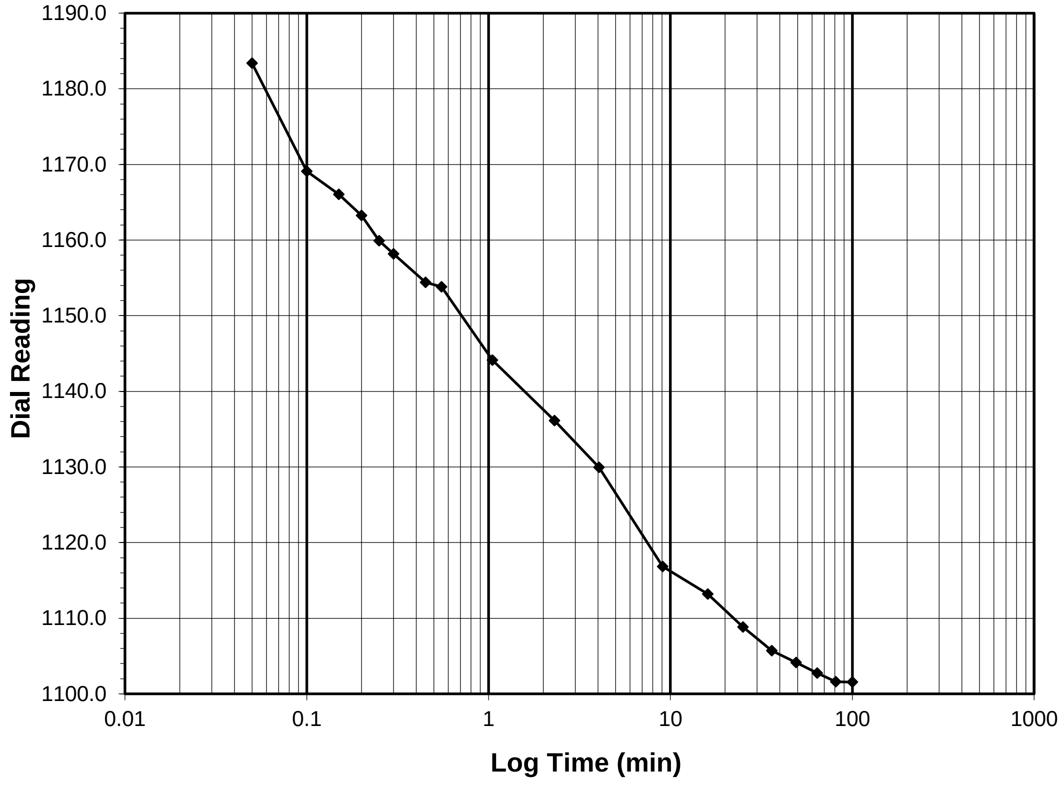
Client	Terracon	Boring No.	RWAL4-3
Client Project	Widening NC-115	Depth (ft)	3.0'-5.15'
Project No.	R-2020-175-001	Sample No.	ST-1
Lab ID	R-2020-175-001-001	Visual Description	Red-Brown Clay

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load	**(tsf)**	**1.0-0.25**
Final Reading	**(div)**	**1101.5**
Consolidometer No.		**R409**
1 Division	(in)	0.0001
Start Date		9/4/2020
Start Time		10:28:47

Elapsed Time (min)	Dial Reading (div)
Initial	**1204.7**
0.05	1183.4
0.10	1169.1
0.15	1166.0
0.20	1163.2
0.25	1159.9
0.30	1158.2
0.45	1154.4
0.55	1153.8
1.05	1144.1
2.30	1136.2
4.05	1130.0
9.07	1116.8
16.07	1113.2
25.07	1108.8
36.07	1105.7
49.07	1104.2
64.07	1102.7
81.07	1101.6
100.07	1101.5



Tested By *129-07-0411* *Date* *9/4/2020* *Checked By* *GEM* *Date* *9/8/2020*

page 1 of 1 DCN: CT-24E Date: 5/3/12 Revision: 3

Z:\2020 PROJECTS\Terracon\2020-175 Terracon - Widening NC-115\[175-001-001 DOT GEOJAC-16TSF1 Cv.xlsm]FINAL PLOT

PROJECT REFERENCE NO.	SHEET NO.
R–5759	314

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

APPENDIX B

SUPPLEMENTAL BORING LOGS

PROJECT: 44691.1.1

REFERENCE: R–5759

Prepared in the Office of:

Terracon

2401 BRENTWOOD ROAD, SUITE 107
RALEIGH, NORTH CAROLINA 27604
NC REGISTERED ENGINEERING FIRM: F–0869
NC REGISTERED GEOLOGIC FIRM: C–367

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 44691.1.1	**TIP** R-5759	**COUNTY** WILKES	**GEOLOGIST** FARMER, B. C.
SITE DESCRIPTION WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET			**GROUND WTR (ft)**
BORING NO. Y6_1200	**STATION** 12+00	**OFFSET** 6 ft RT	**ALIGNMENT** -Y6_REV- / **0 HR.** Dry
COLLAR ELEV. 1,196.2 ft	**TOTAL DEPTH** 6.0 ft	**NORTHING** 878,597	**EASTING** 1,377,387 / **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE TER1974 CME-45B 88% 01/27/2020	**DRILL METHOD** H.S. Augers		**HAMMER TYPE** Automatic
DRILLER TURNAGE, J. R.	**START DATE** 07/16/20	**COMP. DATE** 07/16/20	**SURFACE WATER DEPTH** N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	ELEV. (ft)	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
1200												
										1,196.2	GROUND SURFACE	0.0
1195										1,194.7	**PAVEMENT** 0.3' ASPHALT, 1.2' ABC	1.5
							S-16	9%		1,190.2	**RESIDUAL** MEDIUM STIFF, RED, SILTY CLAY, MOIST, TRACE MICA, MODERATELY PLASTIC	6.0
											Boring Terminated at Elevation 1,190.2 ft IN RESIDUAL SILTY CLAY	

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 44691.1.1	**TIP** R-5759	**COUNTY** WILKES	**GEOLOGIST** FARMER, B. C.
SITE DESCRIPTION WIDENING OF NC 115 (STATESVILLE ROAD) FROM US 421 TO 2ND STREET			**GROUND WTR (ft)**
BORING NO. Y6_1400	**STATION** 13+90	**OFFSET** 40 ft RT	**ALIGNMENT** -Y6_REV- / **0 HR.** Dry
COLLAR ELEV. 1,199.2 ft	**TOTAL DEPTH** 10.3 ft	**NORTHING** 878,782	**EASTING** 1,377,447 / **24 HR.** Caved
DRILL RIG/HAMMER EFF./DATE TER1974 CME-45B 88% 01/27/2020	**DRILL METHOD** H.S. Augers		**HAMMER TYPE** Automatic
DRILLER TURNAGE, J. R.	**START DATE** 07/09/20	**COMP. DATE** 07/09/20	**SURFACE WATER DEPTH** N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	ELEV. (ft)	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
1200										1,199.2	GROUND SURFACE	0.0
	1,198.2	1.0	3	3	3	6		M			**RESIDUAL** MEDIUM STIFF TO STIFF, RED, PINK, WHITE, SILTY CLAY, MOIST, TRACE MICA, SLIGHTLY PLASTIC	
1195	1,195.4	3.8	2	3	6	9		M				
	1,192.9	6.3	2	3	5	8	SS-27	26%				
1190	1,190.4	8.8	3	5	5	10		M		1,188.9		10.3
											Boring Terminated at Elevation 1,188.9 ft IN RESIDUAL SILTY CLAY CAVED DRY AT 6.0'	