REVIEWER NOTES:

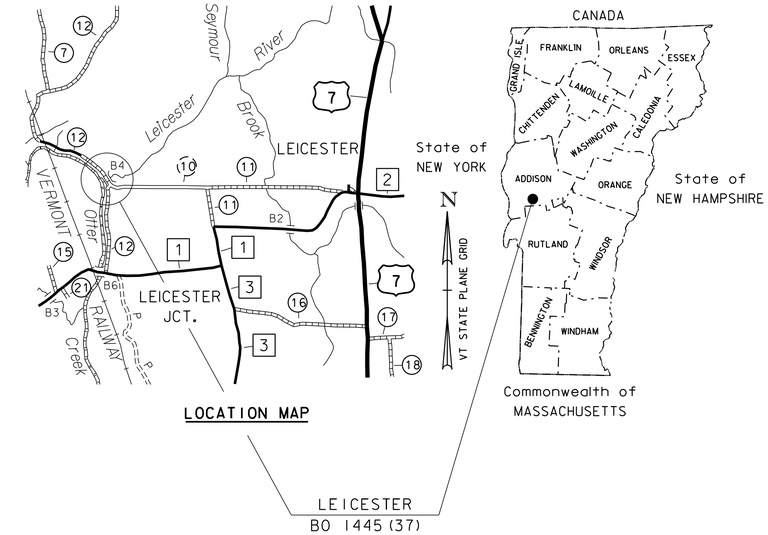
1. TH 12 (OLD JERUSALEM ROAD) WILL BE CLOSED DURING CONSTRUCTION. TRAFFIC WILL BE MAINTAINED ON AN OFF-SITE DETOUR. THE DETOUR AND SIGNAGE WILL BE THE RESPONSIBILTY OF THE TOWN AS THE PROJECT IS ON A TOWN HIGHWAY.

2. ALL ATTEMPTS TO MINIMIZE IMPACTS TO EXISTING RESOURCES HAVE BEEN MADE.

3. THERE WILL BE MINIMAL IMPACTS TO EXISTING WETLANDS, AS WELL AS CONSERVATION EASEMENTS THROUGH THE WETLANDS RESERVE PROGRAM WITH THE LANDOWNER & USDA/NRCS PARTNERSHIP. IT IS ANTICIPATED THAT THE WETLANDS DELINEATION MAY BE SLIGHTLY CONSERVATIVE AND/ OR THE IMPACTS TO THE EASEMENT ARE SO SMALL CONSIDERING THE LARGE SIZE OF THE EASEMENT. FURTHER INVESTIGATION IS UNDERWAY.

4. AWAITING FINAL HYDRAULICS WHICH WAS SUBMITTED 5.8.19.

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF LEICESTER

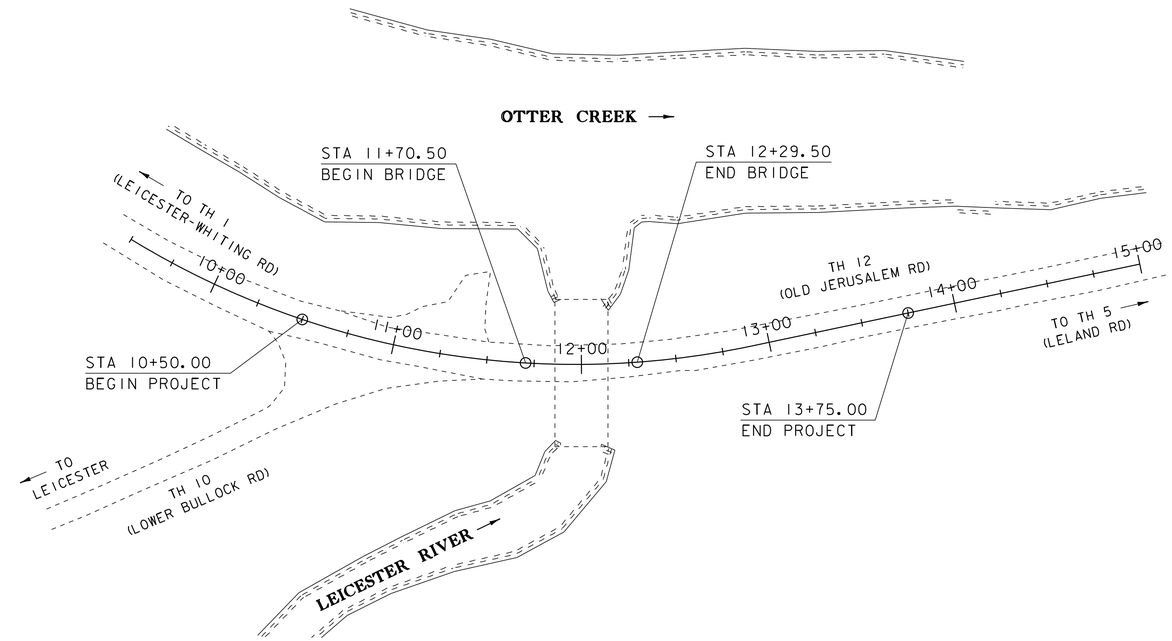
COUNTY OF ADDISON

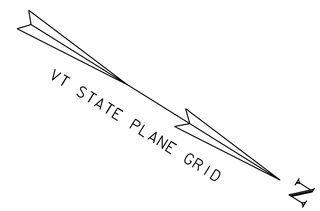
ROUTE NO : TH 12; (CLASS 3 TOWN HIGHWAY) BRIDGE NO : 4

PROJECT LOCATION : ON TH 12 (OLD JERUSALEM ROAD) BEGINNING APPROXIMATELY 0.73 MILE NORTH FROM ITS INTERSECTION WITH TH 1 (LEICESTER-WHITING ROAD) AND EXTENDING NORTHWESTERLY APPROXIMATELY 0.062 MILE.

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING CULVERT WITH A BRIDGE ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE :	59.00 FEET
LENGTH OF ROADWAY :	266.00 FEET
LENGTH OF PROJECT :	325.00 FEET





40 0 40
SCALE: 1" = 40'-0"

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2
SURVEYED BY : H. MCGOWAN SURVEYED DATE : 11/24/2015
DATUM VERTICAL NAVD 88 HORIZONTAL NAD 83 (2011)

PRELIMINARY PLANS

02-OCT-2019

HIGHWAY DIVISION, CHIEF ENGINEER APPROVED _____ DATE _____
PROJECT MANAGER : CAROLYN COTA, PE
PROJECT NAME : LEICESTER PROJECT NUMBER : BO 1445(37) SHEET 1 OF 26 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

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G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
S-367A	BRIDGE RAILING, GALVANIZED HDSB/FASCIA MOUNTED/STEEL TUBING	02-02-2017
S-367B	GUARDRAIL APPROACH SECTION, GALVANIZED HD STEEL BEAM	02-02-2017
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-25-2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
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HSD-621.07B	W-BEAM GUARDRAIL COMPONENTS	04-17-2019
HSD-621.07C	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR	04-17-2019
HSD-621.07D	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	04-17-2019
HSD-621.07E	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	04-17-2019
HSD-621.07F	MIDWEST GUARDRAIL SYSTEM TRANSITION SECTION	04-17-2019
SD-501.00	CONCRETE DETAILS AND NOTES	02-09-2012
SD-502.00	CONCRETE DETAILS AND NOTES	10-10-2012
SD-516.10	BRIDGE JOINT, APSHALTIC PLUG	08-29-2011
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	06-04-2010
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	05-02-2011

FINAL HYDRAULIC REPORT

*FINAL HYDRAULICS REQUEST MADE ON 8/15/19

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2018	160	30	59	11.6	15
2038	160	30	59	14.1	20

20 year ESAL for flexible pavement from 2018 to 2038 : 45000

40 year ESAL for flexible pavement from 2018 to 2058 : 87000

Design Speed : 35 mph

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

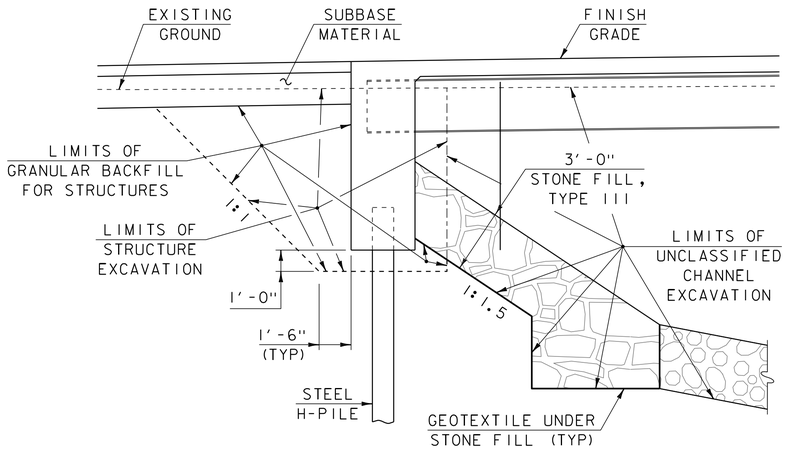
1.	DESIGN LIVE LOAD		HL-93
2.	FUTURE PAVEMENT	d_p:	2.5 INCH
3.	DESIGN SPAN	L:	56.00 FT
4.	MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5.	PRESTRESSING STRAND	f_y:	---
6.	PRESTRESSED CONCRETE STRENGTH	f'_c:	---
7.	PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	---
8.	HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c:	4.0 KSI
9.	HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c:	3.5 KSI
10.	CONCRETE HIGH PERFORMANCE, CLASS PSS	f'_c:	4.0 KSI
11.	CONCRETE, CLASS C	f'_c:	3.0 KSI
12.	REINFORCING STEEL	f_y:	60 KSI
13.	STRUCTURAL STEEL AASHTO M270 (GALVANIZED)	f_y:	50 KSI
14.	NOMINAL BEARING RESISTANCE OF SOIL	q_n:	4.0 KSF
15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16.	NOMINAL BEARING RESISTANCE OF ROCK	q_n:	10.0 KSF
17.	ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18.	PILE RESISTANCE FACTOR	ϕ:	---
19.	LATERAL PILE DEFLECTION	Δ:	---
20.	BASIC WIND SPEED	V_{3s}:	---
21.	MINIMUM GROUND SNOW LOAD	p_g:	---
22.	SEISMIC DATA — PGA: ---	S_s:	---
		S_1:	---
23.			
24.			---
25.			---
26.			---

PROJECT NAME: **LEICESTER**

PROJECT NUMBER: **BO 1445(37)**

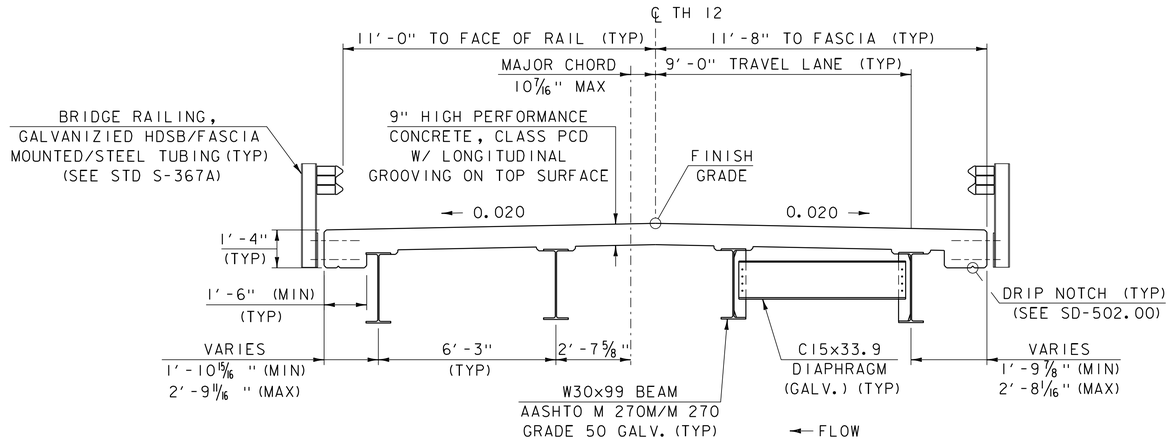
FILE NAME: **s12j636pi.dgn**
PROJECT LEADER: **C. COTA**
DESIGNED BY: **C. BURRALL**
PRELIMINARY INFORMATION

PLOT DATE: **10/2/2019**
DRAWN BY: **G. ROY**
CHECKED BY: **C. BURRALL**
SHEET **2** OF **26**



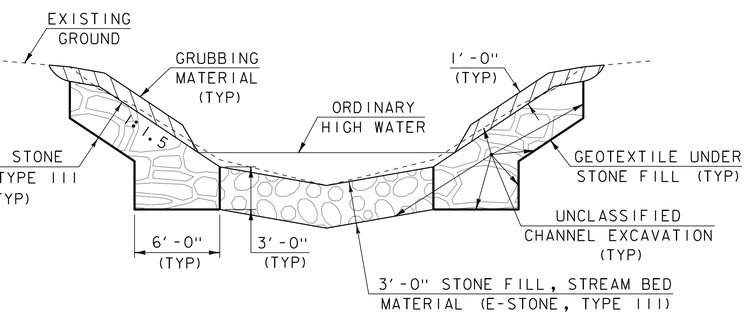
ABUTMENT TYPICAL SECTION

(NOT TO SCALE)



BRIDGE TYPICAL SECTION

SCALE: 3/8" = 1'-0"



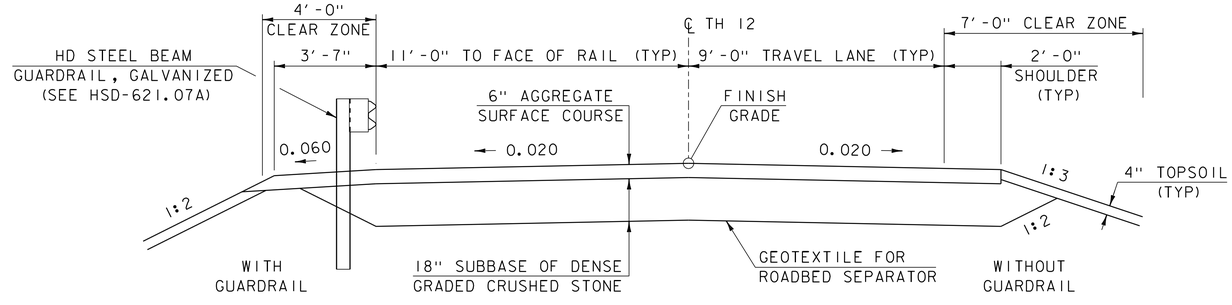
CHANNEL TYPICAL SECTION

(NOT TO SCALE)

1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

2. THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.

3. GRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED IN AREAS THAT WILL SEE CONCENTRATED FLOWS RESULTING FROM SURFACE WATER RUNOFF. GRUBBING MATERIAL MAY BE OMITTED IF LESS THAN 3 FEET IN WIDTH BENEATH A STRUCTURE. SEE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.



TH 12 (OLD JERUSALEM RD) ROADWAY TYPICAL SECTION

SCALE: 3/8" = 1'-0"

MATERIAL TOLERANCES

(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636typ.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TYPICAL SECTIONS

PLOT DATE: 02-OCT-2019
DRAWN BY: C. BURRALL
CHECKED BY: G. ROY
SHEET 3 OF 26

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636legend.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CONVENTIONAL SYMBOLOGY LEGEND

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 4 OF 26

CONTROL POINTS

HVCTRL #99
"LIECESTER AZ MK"
NORTH = 494001.6367
EAST = 1475151.3443
ELEV. = 474.6300

TO REACH FROM THE MAIN CROSSROADS IN THE VILLAGE OF LEICESTER (INTERSECTION OF U.S. ROUTE 7, THE LEICESTER-WHITING ROAD, AND FERN (LAKE ROAD) AT THE LEICESTER MEETING HOUSE AND CENTRAL SCHOOL GO WEST ALONG THE LEICESTER-WHITING ROAD FOR 1.25 MI (2.01 KM) TO A T-INTERSECTION. TURN LEFT AND GO SOUTH ALONG THE MAIN TRAVELED ROAD FOR 0.3 MI (0.5 KM) TO A T-ROAD RIGHT. CONTINUE STRAIGHT AHEAD (SOUTH) ALONG ARNOLD DISTRICT ROAD FOR 0.2 MI (0.3 KM) TO TELEPHONE POLE NO. 174 AND AZIMUTH MARK ON THE LEFT. IT IS 0.2 MI (0.3 KM) NORTH ALONG ARNOLD DISTRICT ROAD FROM NGS STATION LIECESTER. STATION MARK IS SET IN THE TOP OF A 9 FT (2.7 M) X 6 FT (1.8 M) BOULDER WHICH PROJECTS 4 FT (1.2 M) ABOVE GROUND SURFACE. IT IS 135 FT (41.1 M) EAST OF THE CENTERLINE OF ARNOLD DISTRICT ROAD, 198 FT (60.4 M) SOUTHEAST OF TELEPHONE POLE NO. 174, 165 FT (50.3 M) NORTHEAST OF THE TELEPHONE POLE NO. 173, 195 FT (59.4 M) SOUTH SOUTHEAST OF TRANSMISSION POLE NO. 50, 118 FT (36.0 M) EAST OF A FIBERGLASS WITNESS POST IN A WIRE FENCELINE

HVCTRL #98
"DALE"
NORTH = 495384.1241
EAST = 1474747.4409
ELEV. = 459.7760

TO REACH FROM THE INTERSECTION OF US ROUTE 7 AND VT ROUTE 73 WEST AT THE NORTH END OF BRANDON VILLAGE, GO NORTH ALONG US ROUTE 7 FOR 4.7 MI (7.6 KM) TO THE INTERSECTION OF THE WHITING-LEICESTER ROAD LEFT AND FERN LAKE ROAD RIGHT, IN LEICESTER. TURN LEFT AND GO WEST ALONG THE LEICESTER-WHITING FOR 1.25 MI (2.01 KM) TO THE INTERSECTION OF MEMOE ROAD RIGHT. CONTINUE AHEAD ON THE LEICESTER-WHITING ROAD FOR 0.2 MI (0.3 KM) TO THE SITE OF THE MARK ON THE LEFT IN A PASTURE. IT IS ABOUT 100 M (328.1 FT) NORTH OF THE INTERSECTION OF SWINGTON HILL ROAD. THE MARK IS SET IN THE TOP OF A 1.3 M (4.3 FT) X 0.9 M (3.0 FT) BOULDER WHICH PROJECTS ABOUT 0.5 M (1.6 FT) ABOVE GROUND SURFACE. IT IS 35.7 M (117.1 FT) EAST OF AND ABOUT LEVEL WITH THE CENTERLINE OF THE LEICESTER-WHITING ROAD, 45.1 M (148.0 FT) SOUTH OF A WIRE FENCE CORNER, 16.2 M (53.1 FT) SOUTH SOUTHEAST OF A 30 CM JUNIPER, 34.3 M (112.5 FT) NORTHEAST OF A FIVE-TRUNKED MAPLE WITH TRIANGULAR BLAZE, AND 29.0 EAST OF A FIBERGLASS WITNESS POST IN A NORTH-SOUTH WIRE FENCELINE. NOTE, MARK IS INTERVISIBLE WITH LEICESTER AZ MK.

*CONTROL RECOVERED BY G.HITCHCOCK 11/02/2015

TRAVERSE TIES

HVCTRL #8

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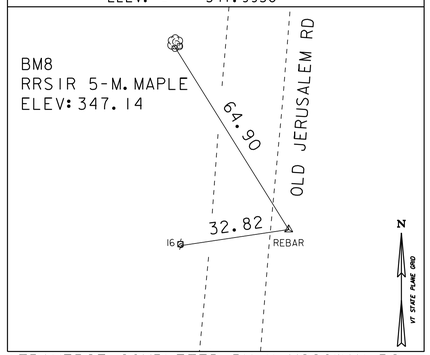
EAST = 1469627.6121
ELEV. = 347.9930



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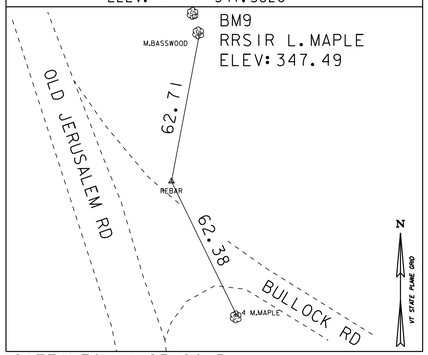

HVCRTL #22

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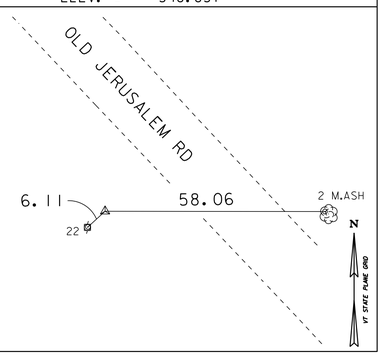


NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

*TRAVERSE COMPLETED BY H.MCGOWAN PC. / T.CATTANEO 11/23/2015

ALIGNMENT TIES

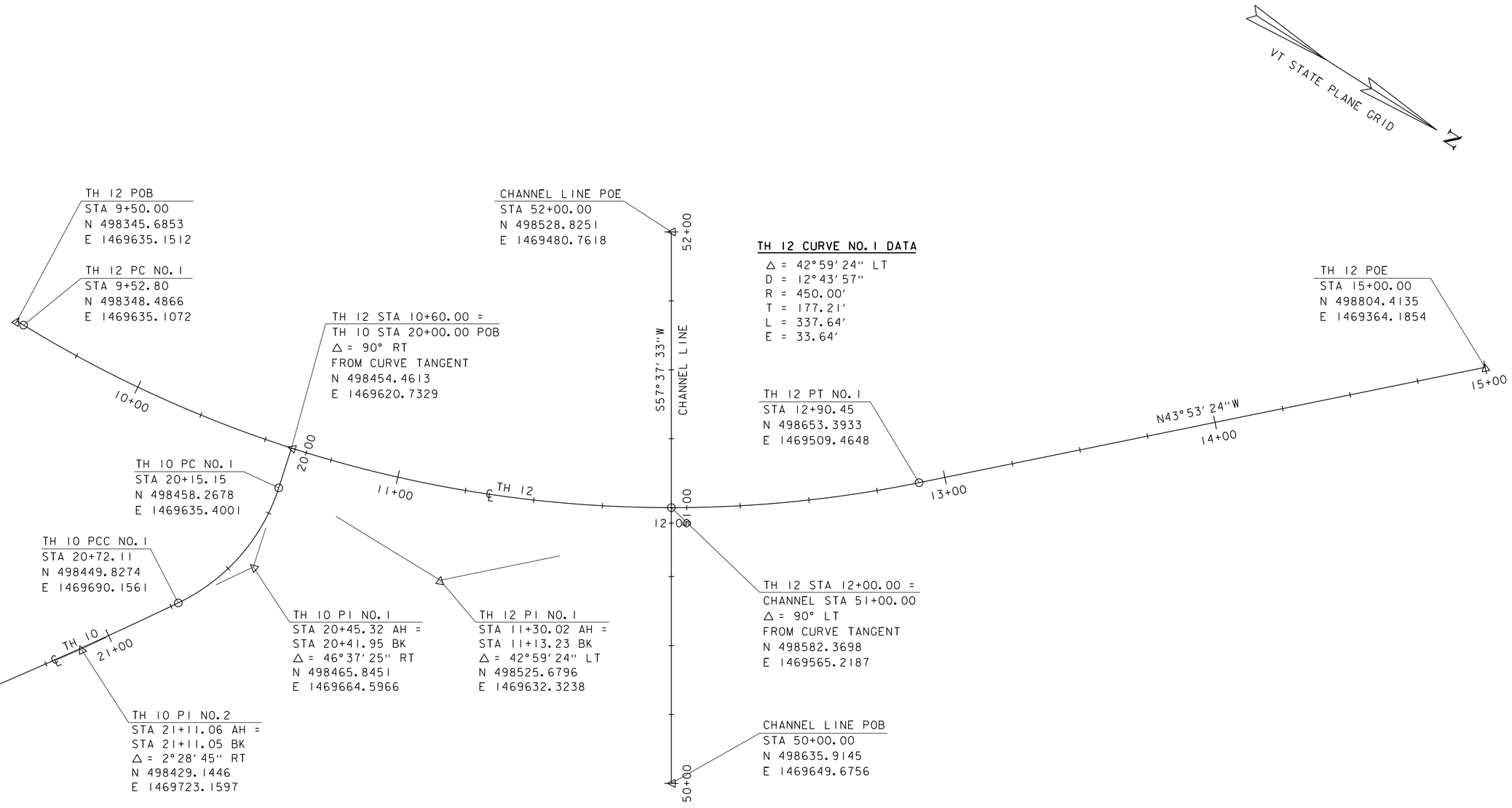
NORTH =	NORTH =	NORTH =	NORTH =	NORTH =
EAST =	EAST =	EAST =	EAST =	EAST =
ELEV. =	ELEV. =	ELEV. =	ELEV. =	ELEV. =

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (2011)
ADJUSTMENT COMPAS

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445 (37)

FILE NAME: s12j636tie.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TIES

PLOT DATE: 02-OCT-2019
DRAWN BY: H. MCGOWAN
CHECKED BY: G. HITCHCOCK



TH 10 CURVE NO. 1 DATA

Δ = 46°37'25" RT
D = 81°51'04"
R = 70.00'
T = 30.16'
L = 56.96'
E = 6.22'

TH 10 CURVE NO. 2 DATA

Δ = 2°28'45" RT
D = 3°10'59"
R = 1800.00'
T = 38.95'
L = 77.89'
E = 0.42'

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (2011)
ADJUSTMENT Compass

20 0 20
SCALE: 1" = 20'-0"

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445 (37)

FILE NAME: sl2j636align.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
ALIGNMENT

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 6 OF 26

WINOOSKI VERY FINE SANDY LOAM
HIGHLY ERODIBLE
K= 0.49

OTTER CREEK

STATE OF VERMONT

VT STATE PLANE GRID

N

TO TH 1
(LEICESTER-WHITING RD)

EXISTING R.O.W.

HOGAN,
ANDREW & DEBRA

HOGAN,
ANDREW & DEBRA

HOGAN,
ANDREW & DEBRA

TH 12
(OLD JERUSALEM RD)
(GRAVEL)

TO TH 5
(LELAND RD)

FOX, CATLIN J
CLAGHORN, ANNE W.

SHACKETT,
LEON & SHIRLEY

TH 10
(LOWER BULLOCK RD)
(GRAVEL)

TO
LEICESTER

LEICESTER
RIVER

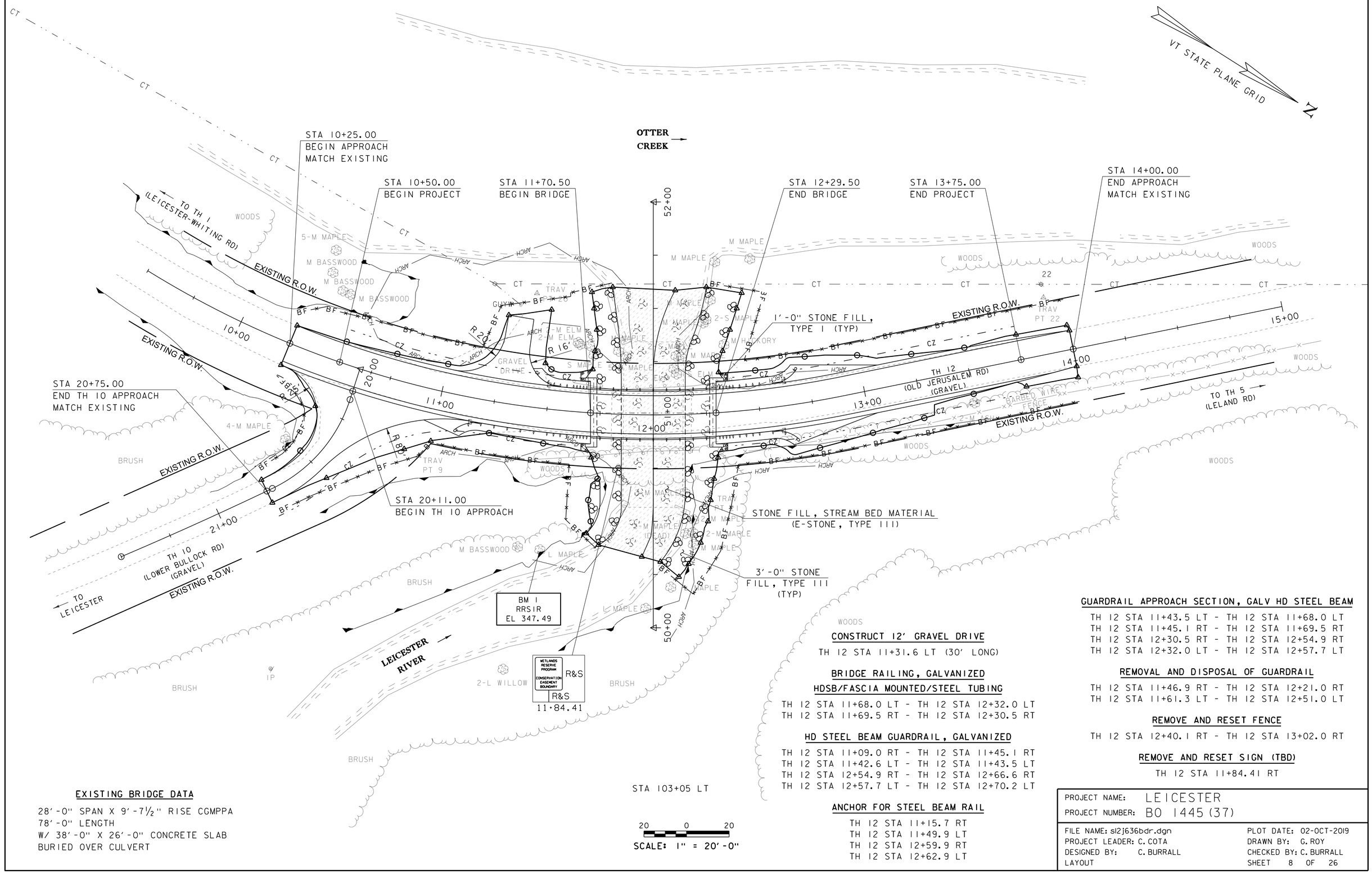
WINOOSKI VERY FINE SANDY LOAM
HIGHLY ERODIBLE
K= 0.49

WINOOSKI VERY FINE SANDY LOAM
HIGHLY ERODIBLE
K= 0.49

FARMINGTON EXTREMELY ROCKY SILT LOAM
5%-20% SLOPES
MODERATELY ERODIBLE
K= 0.32

SCALE: 1" = 20'-0"

PROJECT NAME:	LEICESTER
PROJECT NUMBER:	BO 1445 (37)
FILE NAME: s12j636erobdr.dgn	PLOT DATE: 02-OCT-2019
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: C. BURRALL	CHECKED BY: C. BURRALL
EXISTING SITE CONDITIONS	SHEET 7 OF 26



EXISTING BRIDGE DATA

28'-0" SPAN X 9'-7½" RISE CGMPPA
78'-0" LENGTH
W/ 38'-0" X 26'-0" CONCRETE SLAB
BURIED OVER CULVERT

CONSTRUCT 12' GRAVEL DRIVE

TH 12 STA 11+31.6 LT (30' LONG)

BRIDGE RAILING, GALVANIZED HDSB/FASCIA MOUNTED/STEEL TUBING

TH 12 STA 11+68.0 LT - TH 12 STA 12+32.0 LT
TH 12 STA 11+69.5 RT - TH 12 STA 12+30.5 RT

HD STEEL BEAM GUARDRAIL, GALVANIZED

TH 12 STA 11+09.0 RT - TH 12 STA 11+45.1 RT
TH 12 STA 11+42.6 LT - TH 12 STA 11+43.5 LT
TH 12 STA 12+54.9 RT - TH 12 STA 12+66.6 RT
TH 12 STA 12+57.7 LT - TH 12 STA 12+70.2 LT

ANCHOR FOR STEEL BEAM RAIL

TH 12 STA 11+15.7 RT
TH 12 STA 11+49.9 LT
TH 12 STA 12+59.9 RT
TH 12 STA 12+62.9 LT

GUARDRAIL APPROACH SECTION, GALV HD STEEL BEAM

TH 12 STA 11+43.5 LT - TH 12 STA 11+68.0 LT
TH 12 STA 11+45.1 RT - TH 12 STA 11+69.5 RT
TH 12 STA 12+30.5 RT - TH 12 STA 12+54.9 RT
TH 12 STA 12+32.0 LT - TH 12 STA 12+57.7 LT

REMOVAL AND DISPOSAL OF GUARDRAIL

TH 12 STA 11+46.9 RT - TH 12 STA 12+21.0 RT
TH 12 STA 11+61.3 LT - TH 12 STA 12+51.0 LT

REMOVE AND RESET FENCE

TH 12 STA 12+40.1 RT - TH 12 STA 13+02.0 RT

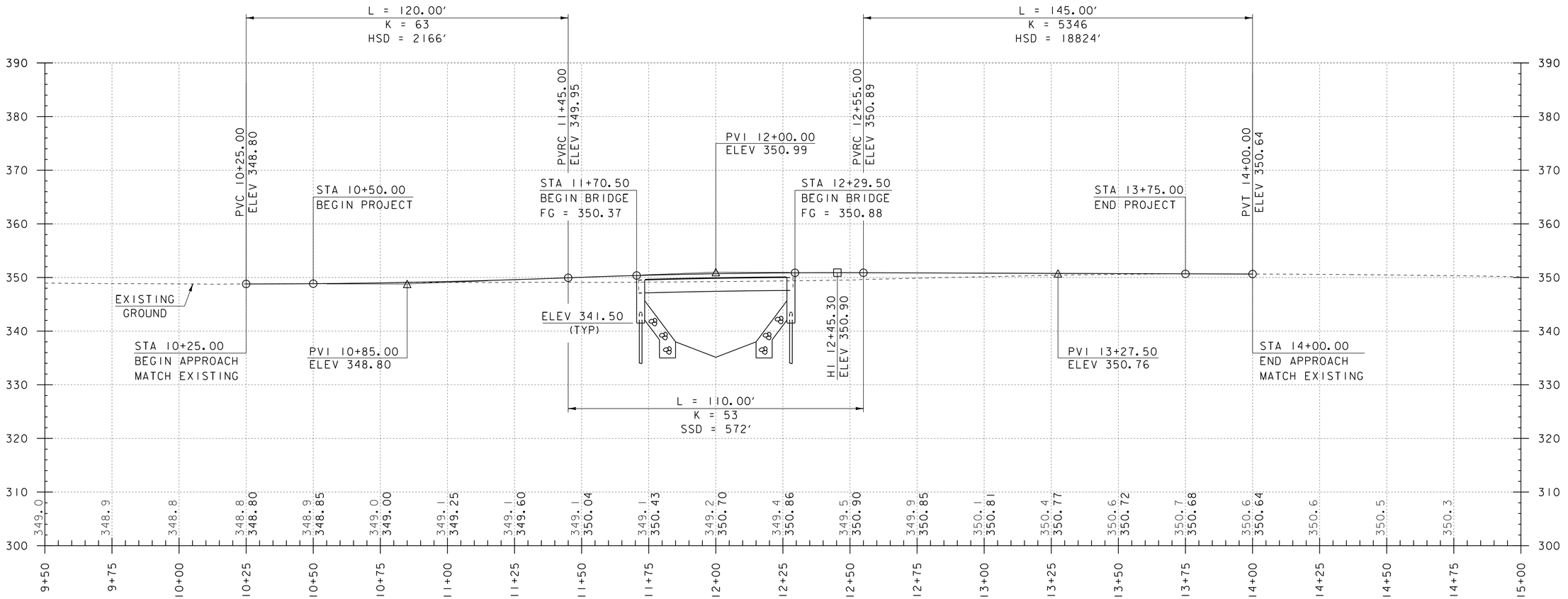
REMOVE AND RESET SIGN (TBD)

TH 12 STA 11+84.41 RT

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636bdr.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
LAYOUT

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 8 OF 26



PROFILE ALONG TH 12

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

NOTE:

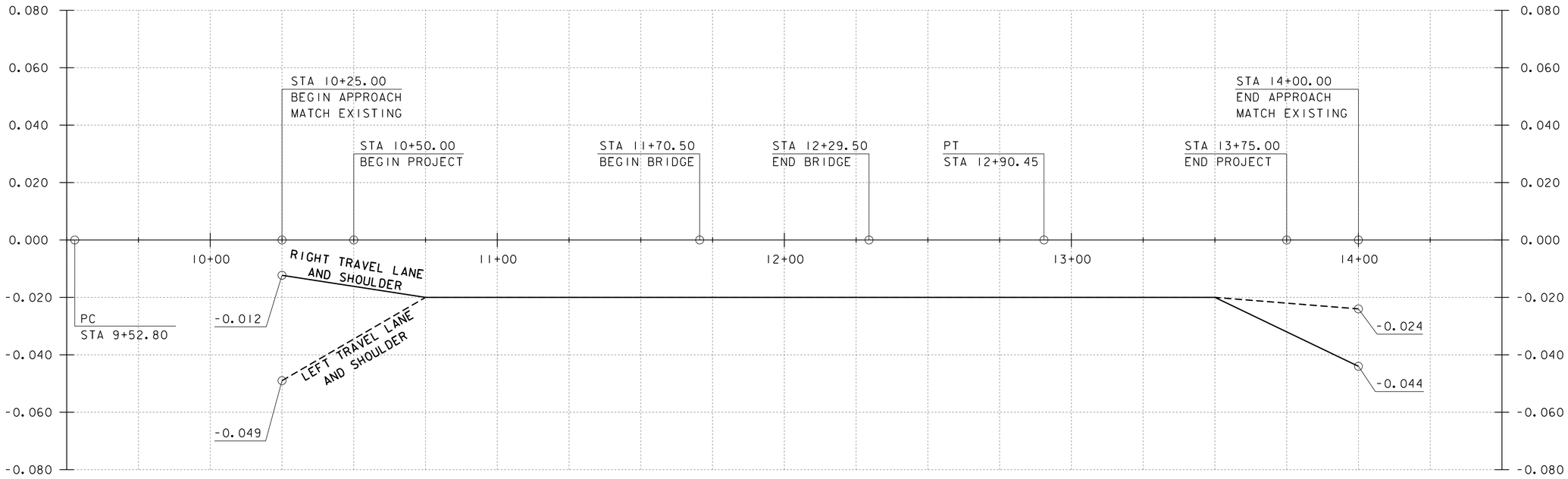
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

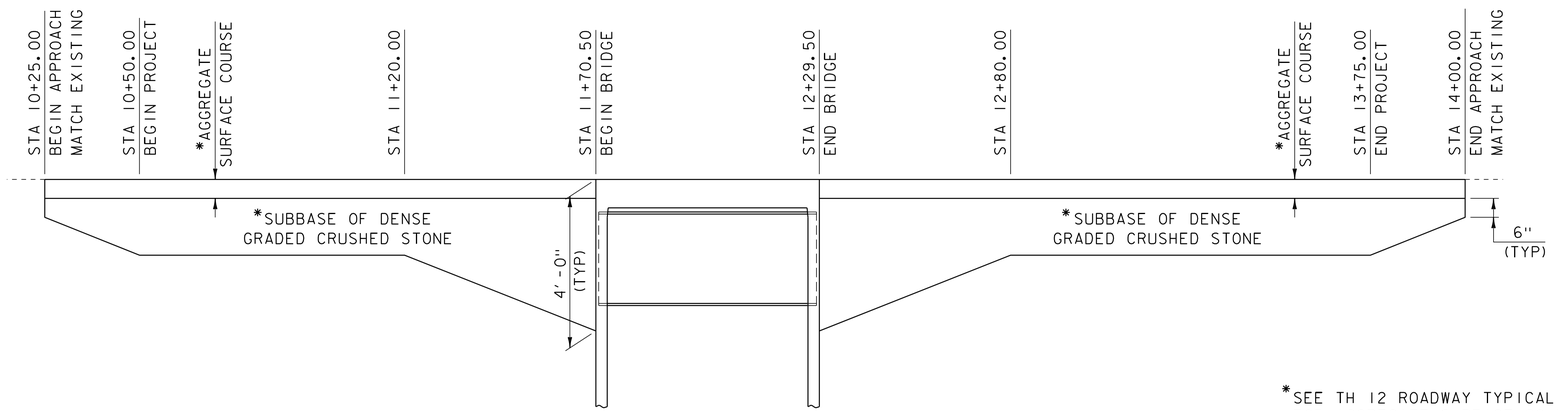
FILE NAME: sl2j636pro.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 12 PROFILE

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 9 OF 26



TH 12 BANKING DIAGRAM

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 0.020'/'

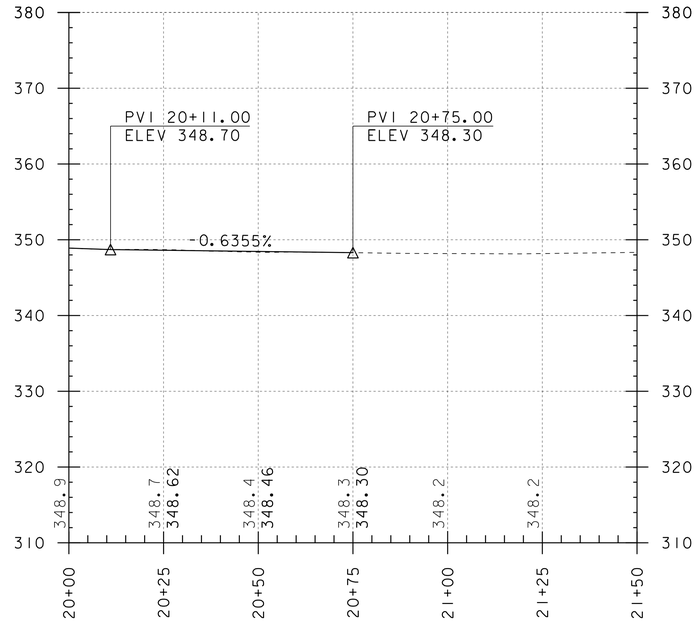


*SEE TH 12 ROADWAY TYPICAL SECTION FOR AGGREGATE SURFACE COURSE AND SUBBASE MATERIAL DESIGN INFORMATION.

TH 12 MATERIAL TRANSITION

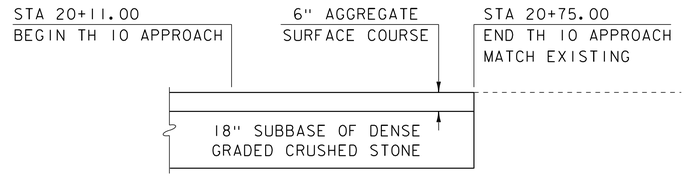
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"

PROJECT NAME:	LEICESTER
PROJECT NUMBER:	BO 1445 (37)
FILE NAME: s12j636pro.dgn	PLOT DATE: 02-OCT-2019
PROJECT LEADER: C. COTA	DRAWN BY: G. ROY
DESIGNED BY: C. BURRALL	CHECKED BY: C. BURRALL
TH 12 BANKING AND MATERIAL TRANSITION	SHEET 10 OF 26



PROFILE ALONG TH 10

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



TH 10 MATERIAL TRANSITION

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"

NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636pro.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 10 PROFILE AND MATERIAL TRANSITION

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 11 OF 26

SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊗	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
ROD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

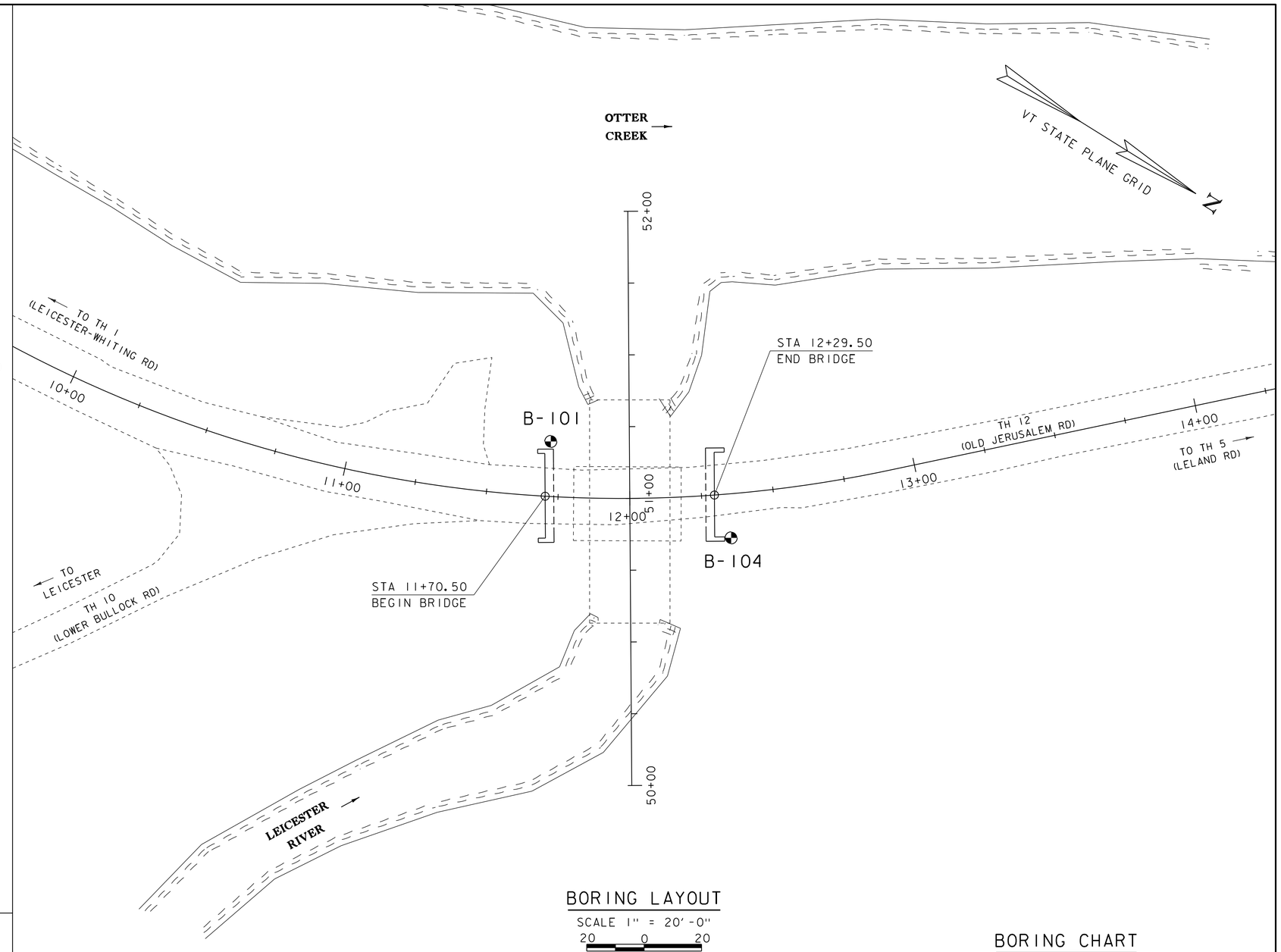
MUCK - Soft organic soil (containing > 10% organic material.

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.



BORING LAYOUT

SCALE 1" = 20'-0"

20 0 20

GENERAL NOTES

1. The subsurface explorations shown herein were made between 2/2/2017 and 2/14/2017 by the Agency.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

BORING CHART

HOLE NO.	STATION	OFFSET	GROUND ELEVATION	ELEV. TLOB
B-101	11+71.31	19.7' LT	347.7	289.0
B-104	12+34.16	14.7' RT	348.5	284.7

PROJECT NAME: LEICESTER

PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING INFORMATION

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Leicester
BO1445(37)
TH 12

Boring No.: **B-101**
Page No.: 1 of 2
Pin No.: 12j636
Checked By: END

Boring Crew: Judkins, Garrow, Olden
Date Started: 2/02/17 Date Finished: 2/06/17
VTSPG NAD83: N 498548.53 ft E 1469562.96 ft
Station: 11+71.31 Offset: -19.70
Ground Elevation: 347.7 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
02/06/17	2.0	W.T. before drilling

ABUT 1 BTM
ELEV 341.50

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, Gr, brn, Moist, Rec. = 1.1 ft				9-6-6-5 (11)	18.1	65.4	17.9	16.7		
		Field Note:, NXDC, Cleaned out casing										
		Visual Description:, Broken Rock, Rec. = 0.1 ft, Field Note: Rock stuck in end of sampler				3-R@2.5" (R)						
5		A-1-a, Gr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample				17-10-6-5 (16)	6.4	81.9	6.0	12.1		
		A-1-a, Gr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample				6-6-5-8 (11)	8.1	80.7	8.8	10.5		
		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				8-4-3-3 (7)						
10		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				5-3-1-2 (4)						
		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				3-6-5-3 (11)						
		Field Note:, NXDC, Cleaned out casing										
15		A-4, SaSi, gry-brn, Moist, Rec. = 0.7 ft				6-5-2-1 (7)	44.1	12.9	32.9	54.2		
		Field Note:, NXDC, Cleaned out casing										
		A-4, SaSi with trace organics, gry-brn, Moist, Rec. = 1.9 ft, Lab Note: Sample contained a trace (7%) organics (AASHTO T-267). Decomposing wood was noticeable in sample				4-4-4-5 (8)	66.8	2.9	38.6	58.5		
		A-8, Organic Si, brn, Moist, Rec. = 1.6 ft, Lab Note: Sample contained 26.9% organics (AASHTO T-267)				1-1-2-4 (3)	179.9	16.1	45.0	38.9		
20		Field Note:, NXDC, Cleaned out casing										
		Field Note:, No Recovery				3-1-1-1 (2)						
		A-7-6, Cl, gry, Moist, Rec. = 1.7 ft				1-1-2-2 (3)	36.6	0.6	6.8	92.6	48	24
25		A-7-6, Cl										
		A-7-6, Cl, gry, Moist, Rec. = 2.1 ft				(WH)	70.2		0.3	99.7	69	40
		Field Note:, NXDC, Cleaned out casing										
30		A-7-6, Cl										
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft				(WH)	64.1	0.1	0.3	99.6	50	27
		Field Note:, NXDC, Cleaned out casing										
35		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 32-34 foot sample				(WR)	75.7		0.1	99.9		

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<SUB>><<SUB>> is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 LEICESTER BO1445(37).GPJ VERMONT AOT.GDT 3/8/17

EST LENGTH = 53'

EST PILE TIP

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Leicester
BO1445(37)
TH 12

Boring No.: **B-101**
Page No.: 2 of 2
Pin No.: 12j636
Checked By: END

Boring Crew: Judkins, Garrow, Olden
Date Started: 2/02/17 Date Finished: 2/06/17
VTSPG NAD83: N 498548.53 ft E 1469562.96 ft
Station: 11+71.31 Offset: -19.70
Ground Elevation: 347.7 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C SKID	CE= 1.42

Groundwater Observations

Date	Depth (ft)	Notes
02/06/17	2.0	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
40		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 32-34 foot sample				(WR)	63.5		0.2	99.8		
45		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 50-52 foot sample				WR-WH	74.1		0.1	99.9		
50		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft				(WR)	49.7	3.3	0.8	95.9	43	22
55		A-4, SaSi, gry, Wet, Rec. = 1.1 ft				1-1-WH (1)	61.3	2.7	39.9	57.4		
60		58.7 ft - 63.7 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Brown staining and secondary calcite precipitation along joints. Hard, Very slightly weathered, Fair rock, NX, RMR=52	1 (60)	76 (32)	7 5 4 4 5							
65		63.7 ft - 68.7 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Sub-vertical joint from 64.15 feet to 64.7 feet. Brown and yellow staining with secondary calcite precipitation along joints. Hard, Slightly weathered, Fair rock, NX, RMR=49	2 (60)	84 (46)	5 5 7 5 3							
70		Hole stopped @ 68.7 ft										

Top of Bedrock @ 58.7 ft

Remarks:
Hole collapsed at 1.2 feet.

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<SUB>><<SUB>> is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 LEICESTER BO1445(37).GPJ VERMONT AOT.GDT 3/8/17

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING LOGS 1

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 13 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Leicester
BO1445(37)
TH 12

Boring No.: **B-104**
Page No.: 1 of 2
Pin No.: 12j636
Checked By: END

Boring Crew: Emerson, Garrow, Olden
Date Started: 2/07/17 Date Finished: 2/14/17
VTSPG NAD83: N 498619.60 ft E 1469558.18 ft
Station: 12+34.16 Offset: 14.70
Ground Elevation: 348.5 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		Auto/AWJ
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
02/08/17	8.2	W.T. before drilling
02/14/17	5.3	W.T. before drilling

ABUT 2 BTM
ELEV 341.50

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, SaGr, brn, Dry, Rec. = 1.4 ft				9-10-7-19 (17)	15.1	51.9	29.9	18.2		
		A-1-b, SaGr, gry, Dry, Rec. = 0.6 ft, Lab Note: Broken rock was within sample				15-13-5-5 (18)	3.9	61.6	22.0	16.4		
		Field Note:, NXDC, Cleaned out casing					21.8	13.2	32.0	54.8		
5		A-4, SaSi, brn, Dry, Rec. = 0.9 ft, Lab Note: Plant material was within sample				6-6-4-5 (10)	24.5	0.8	21.1	78.1		
		A-4, SaSi, brn, Moist, Rec. = 1.5 ft										
		A-4, Si, gry, Moist, Rec. = 0.9 ft				5-4-6-4 (10)	27.9	0.9	17.9	81.2		
		Field Note:, No Recovery				4-3-4-4 (7)						
10		Field Note:, No Recovery				1-2-1-1 (3)						
		A-4, SaSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Sample contained trace (4.8%) organics (AASHTO T-267)				1-1-1-1 (2)	61.3	0.2	30.6	69.2		
							140.7	10.5	59.8	29.7		
		A-8, Organic Si, blk, Moist, Rec. = 0.7 ft, Lab Note: Sample contained little (18.3%) organics (AASHTO T-267). Decomposing wood was noticeable in sample				WH-1-1 (1)	45.4	0.1	19.1	80.8		
15		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: A very small amount of clay and organic material was within sample. Sample tested non-plastic				WH-2-2 (2)	73.1	3.3	17.7	79.0		
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample contained trace (7.2%) organics (AASHTO T-267). Decomposing wood and a thin layer of clay was noticeable within sample. Sample tested non-plastic				1-1-2-3 (3)	247.3	41.7	42.4	15.9		
20						WH-2-4 (2)	315.4	27.7	59.4	12.9		
		A-8, Organic Si, brn, Moist, Rec. = 1.7 ft, Lab Note: Sample contained (44.0%) organics. Decomposing wood was noticeable in sample.					45.2	1.3	22.5	76.2		
						WH-2-2-4 (4)	49.4	0.1	1.2	98.7	69	40
		A-8, Organic Si, brn, Wet, Rec. = 0.5 ft, Lab Note: Sample contained (37.5%) organics. Decomposing wood was noticeable in sample.										
25		A-7-6, Cl, gry, Moist, Rec. = 1.2 ft, Lab Note: Sample contained a very small amount of organic material. Sample had similar Aterberg limits to 22-24 foot sample				(WH)	77.8	0.1	0.4	99.5	65	36
		A-7-6, Cl, gry, Moist, Rec. = 1.8 ft										
		Field Note:, NXDC, Cleaned out casing										
		A-7-6, Cl, gry, Moist										
30		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft										
		A-7-6, Cl, gry, Moist				(WH)	75.6		0.1	99.9		
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 26-28 foot sample										
35		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 26-28 foot sample				(WR)	80.7		0.2	99.8		

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<SUB>><<SUB>> is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 LEICESTER BO1445(37).GPJ VERMONT AOT.GDT 3/9/17

EST LENGTH = 57'

EST PILE TIP

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Leicester
BO1445(37)
TH 12

Boring No.: **B-104**
Page No.: 2 of 2
Pin No.: 12j636
Checked By: END

Boring Crew: Emerson, Garrow, Olden
Date Started: 2/07/17 Date Finished: 2/14/17
VTSPG NAD83: N 498619.60 ft E 1469558.18 ft
Station: 12+34.16 Offset: 14.70
Ground Elevation: 348.5 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		Auto/AWJ
Rig:	CME 45C SKID	CE = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
02/08/17	8.2	W.T. before drilling
02/14/17	5.3	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
40		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 45-47 foot sample				(WR)	80.5		0.3	99.7		
45		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft				(WH)	73.1	0.1	1.0	98.9	63	35
		Field Note:, NXDC, Cleaned out casing										
50		A-7-6, Cl, gry, Moist, Lab Note: Sample had similar Atterberg limits to 45-47 foot sample				(WR)	47.3	0.2	3.6	96.2		
55		Field Note:, No Recovery				(WH)						
60		Field Note:, No Recovery, Rec. = 1.0 ft				(WH)						
65		63.8 ft - 68.8 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Sub-vertical joints from 63.8 feet to 64.45 feet and 65.4 feet to 65.9 feet. Orange and yellow staining with secondary calcite precipitation along joints. Hard, Slightly weathered, Poor rock, NX, RMR=39	1 (50-60)	100 (0)	4 6 6 5 4		Top of Bedrock @ 63.8 ft					
70		68.8 ft - 73.8 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Yellow and brown staining along joints. Some secondary calcite precipitation along joints. Silt coated sub-vertical joint noted from 70.05 feet to 70.30 feet. Hard, Slightly weathered, Fair rock, NX, RMR=54	2 (20)	82 (46)	10 11 9 8 9							
75		Hole stopped @ 73.8 ft Remarks: Hole collapsed at 59.0 feet.										

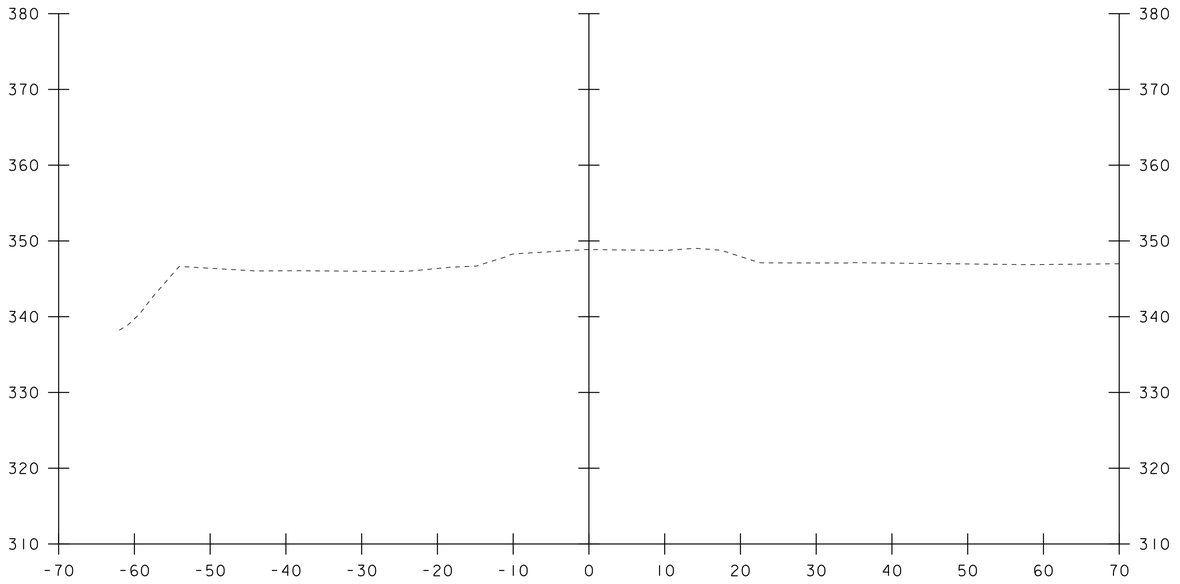
Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<SUB>><<SUB>> is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 LEICESTER BO1445(37).GPJ VERMONT AOT.GDT 3/9/17

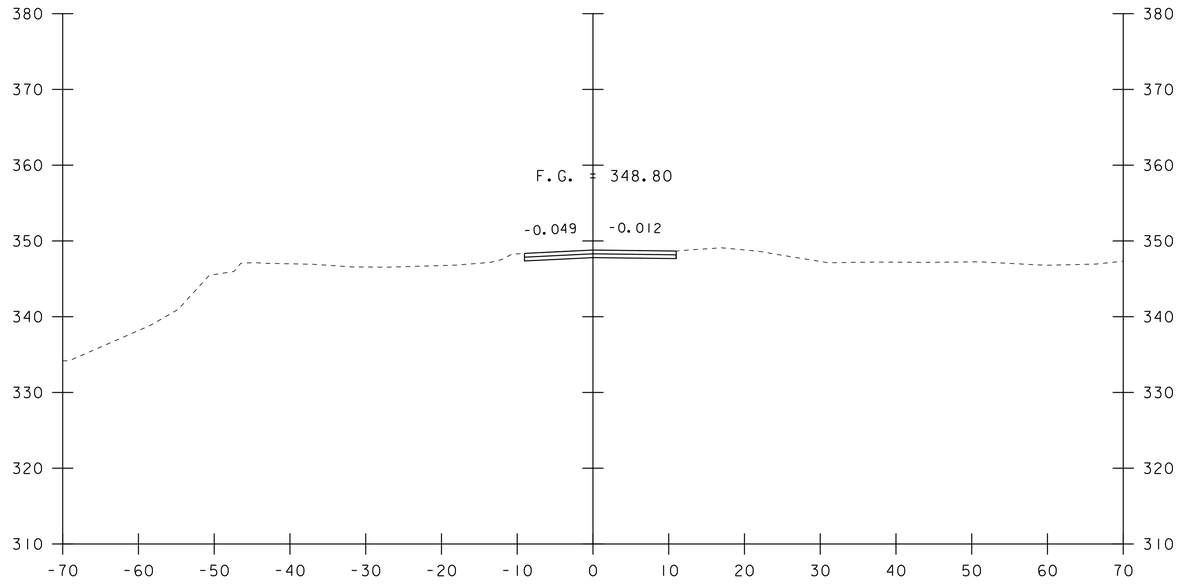
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636bor.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
BORING LOGS 2

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 14 OF 26

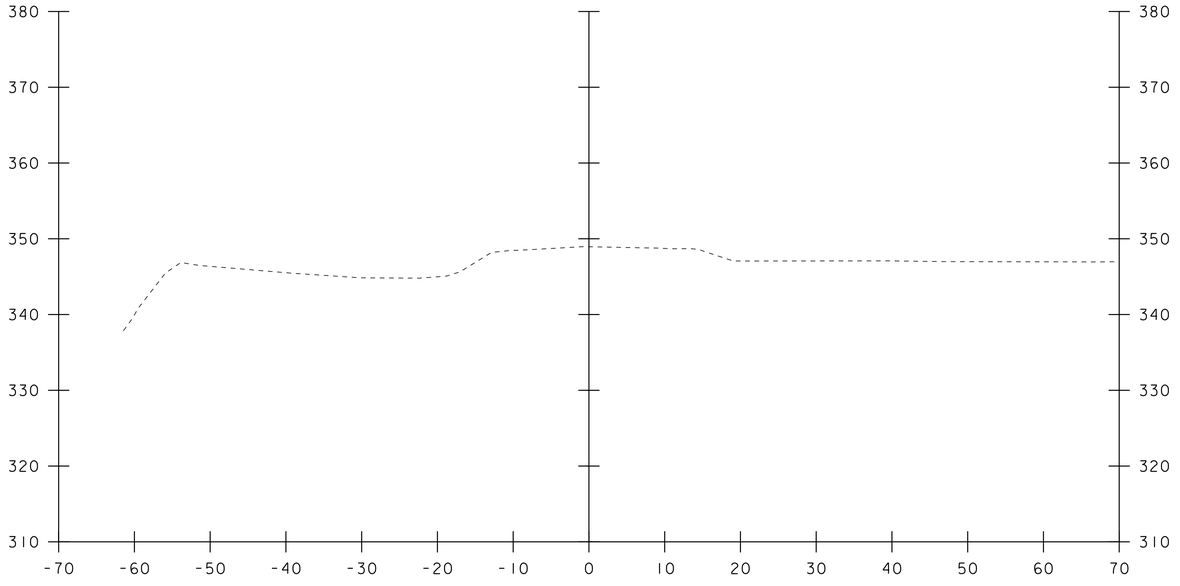


9+75

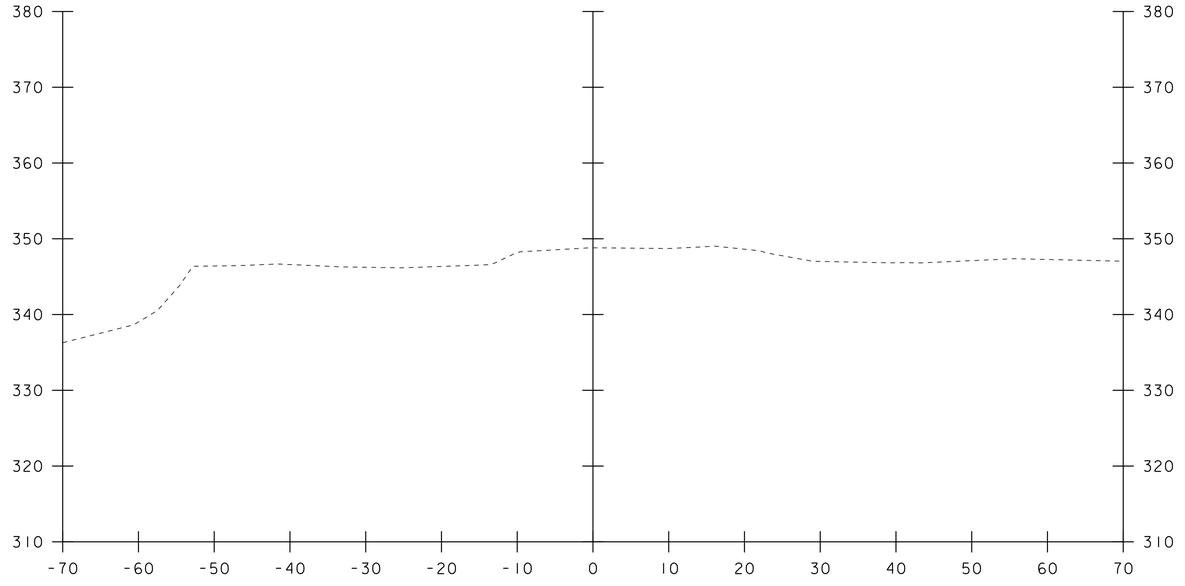


STA 10+25.00
BEGIN APPROACH
MATCH EXISTING

10+25



9+50



10+00

10 0 10

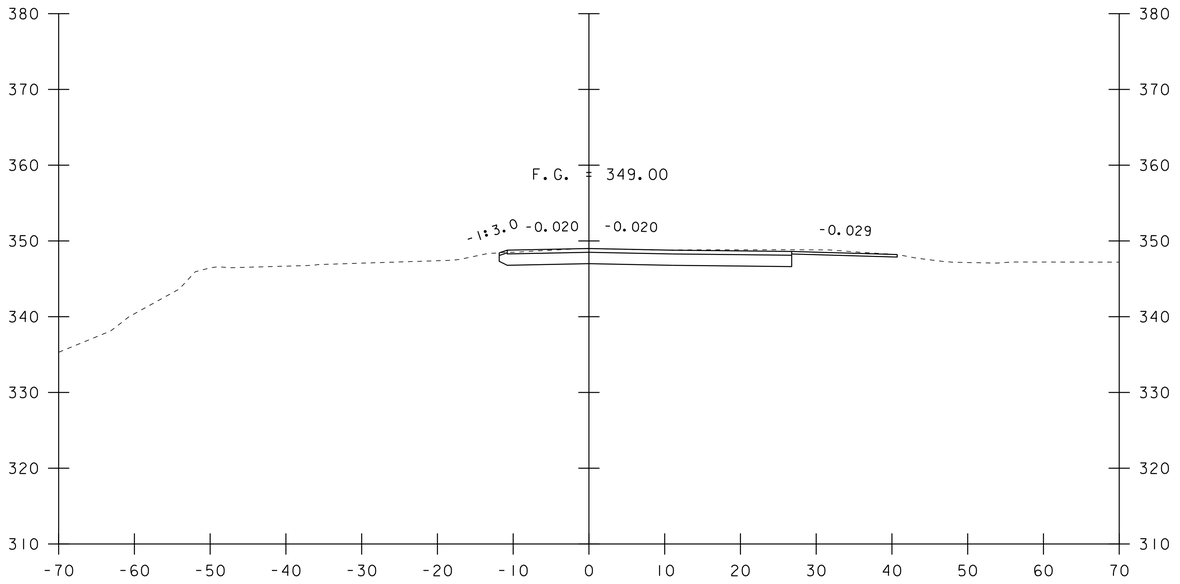
SCALE: 1" = 10'-0"

STA. 9+50 TO STA. 10+25

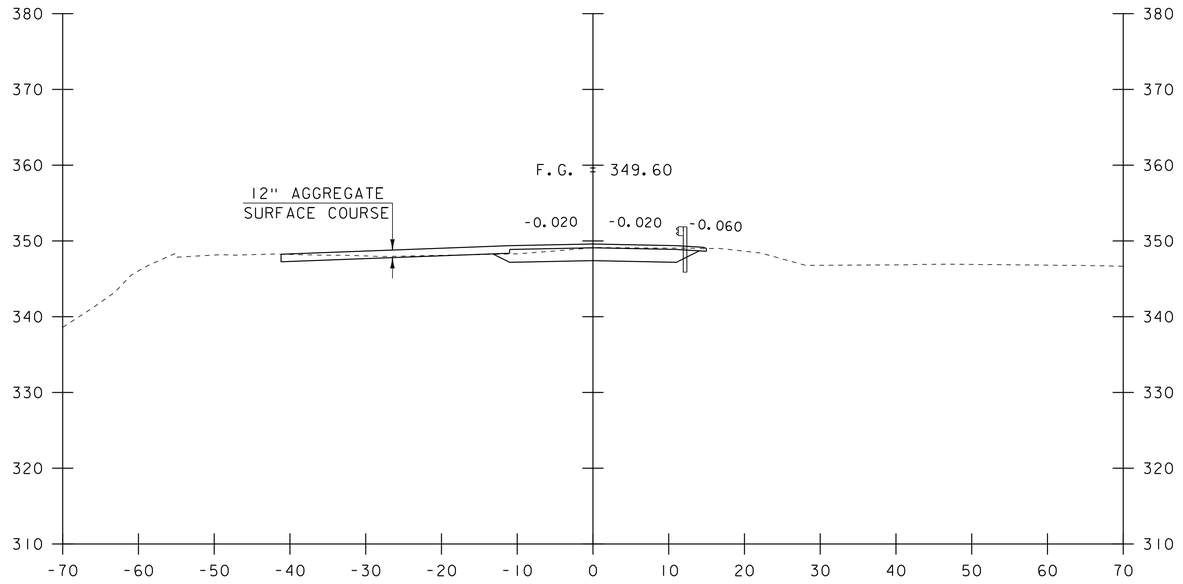
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 12 CROSS SECTIONS 1

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 15 OF 26

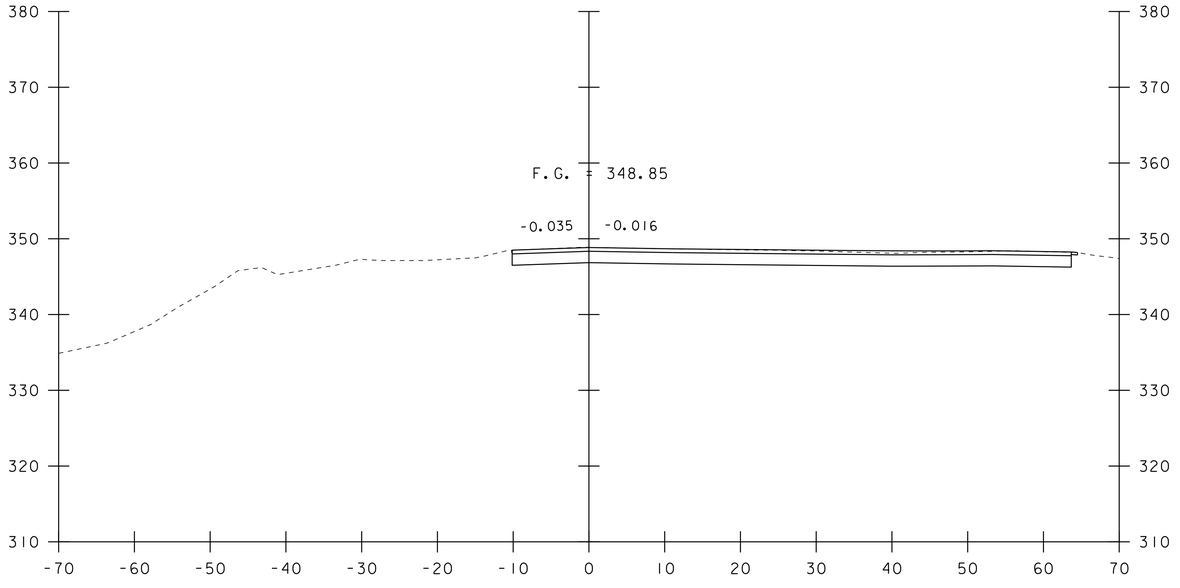


10+75



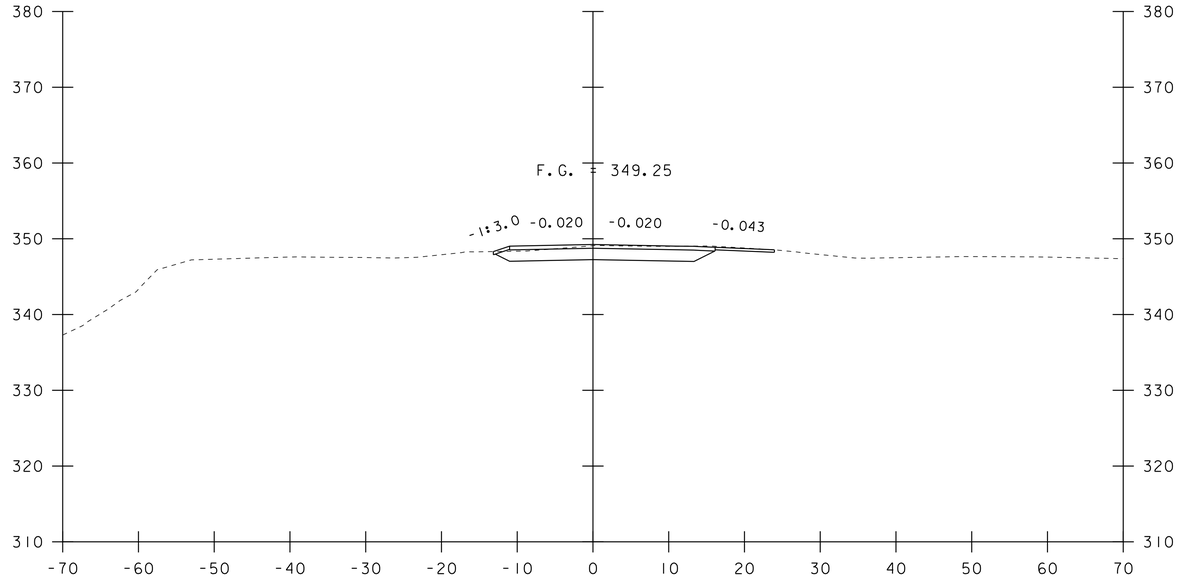
STA 11+31.57
CONSTRUCT 12' GRAVEL DRIVE

11+25



STA 10+50.00
BEGIN PROJECT

10+50



11+00

10 0 10

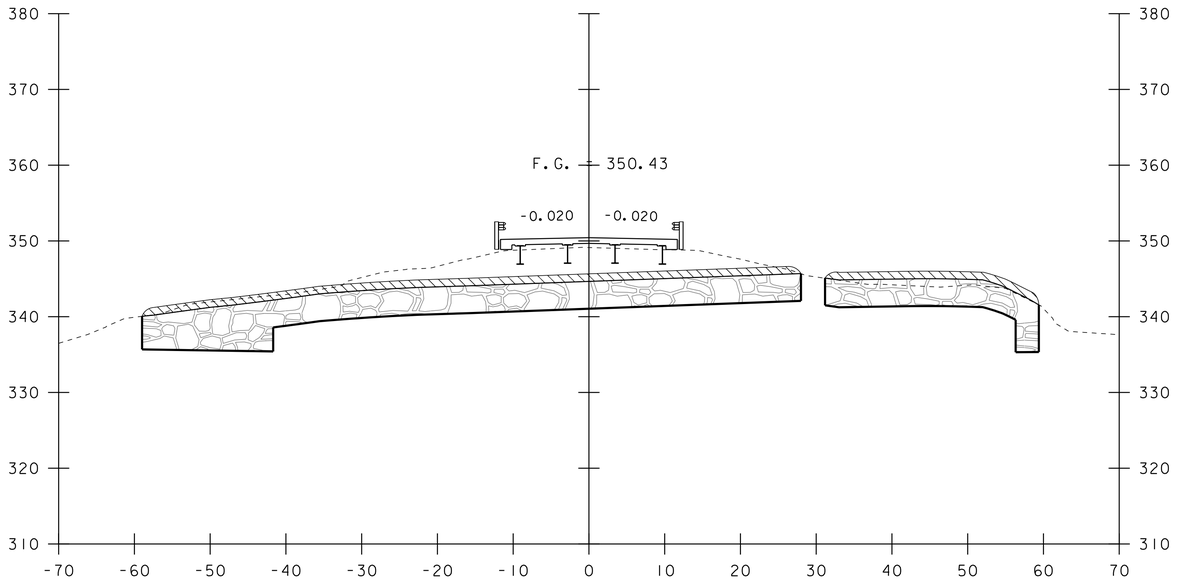
SCALE: 1" = 10'-0"

STA. 10+50 TO STA. 11+25

PROJECT NAME: LEICESTER
PROJECT NUMBER: B0 1445(37)

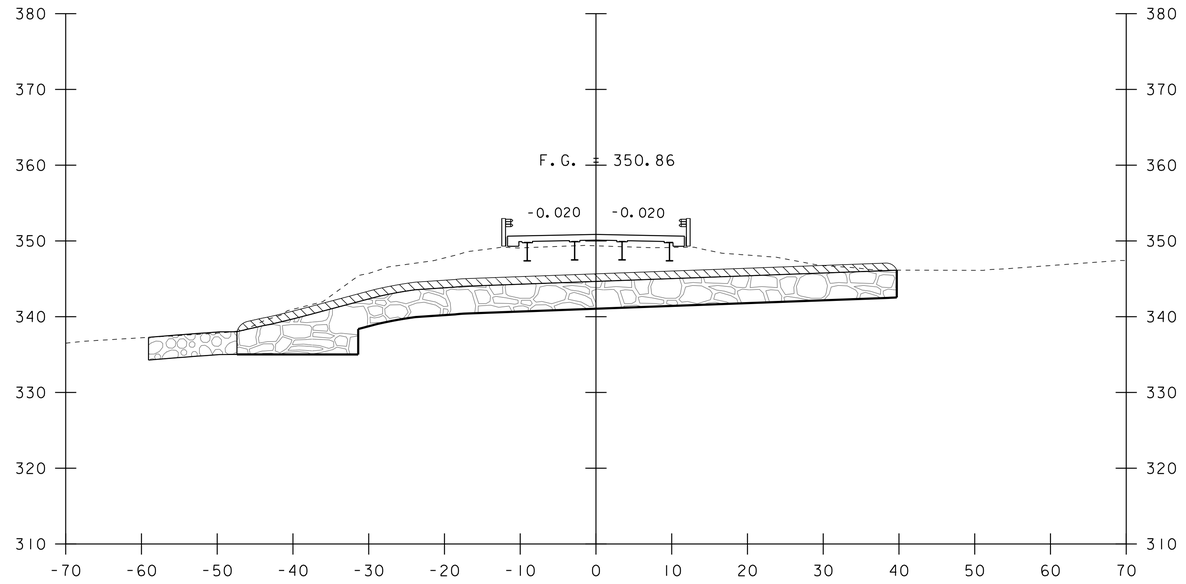
FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 12 CROSS SECTIONS 2

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 16 OF 26

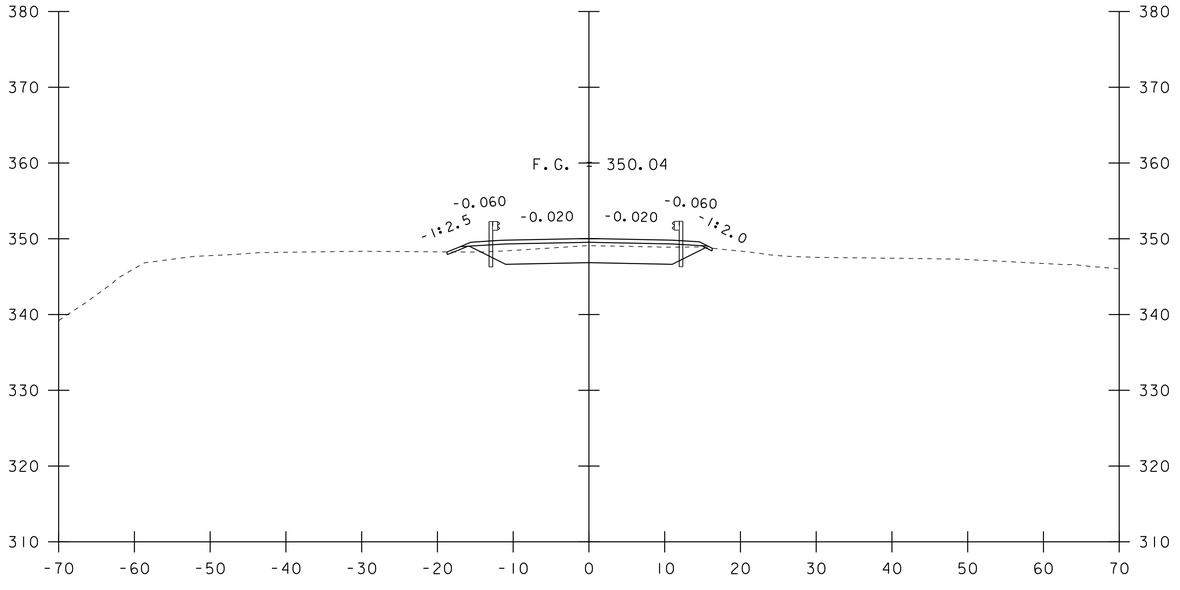


STA 11+70.50
BEGIN BRIDGE

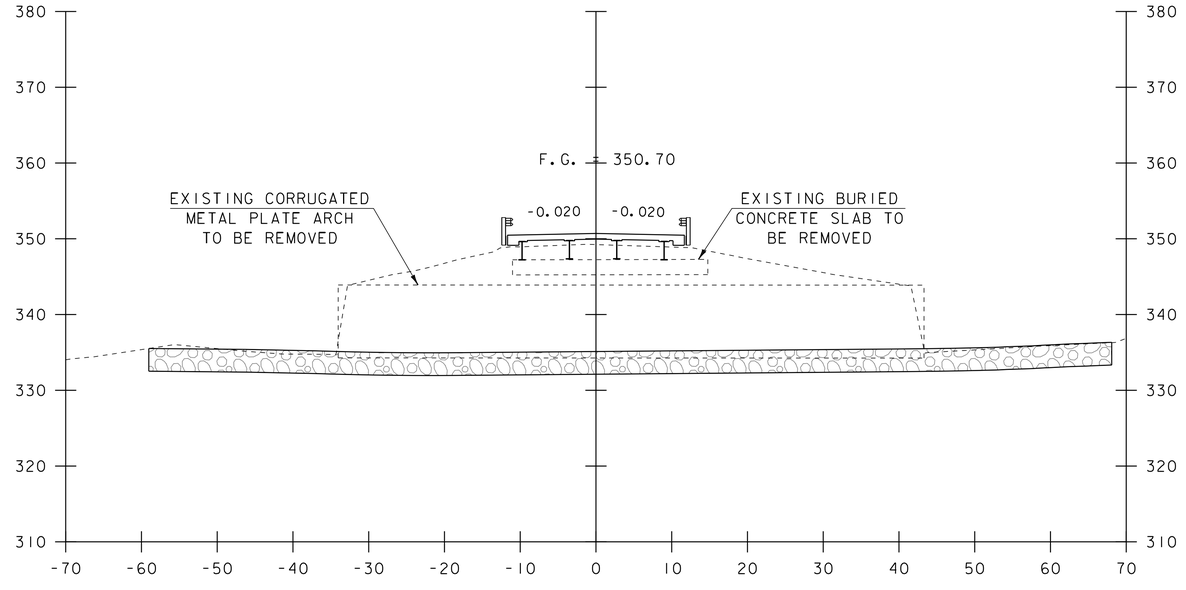
11+75



12+25



11+50



12+00

10 0 10

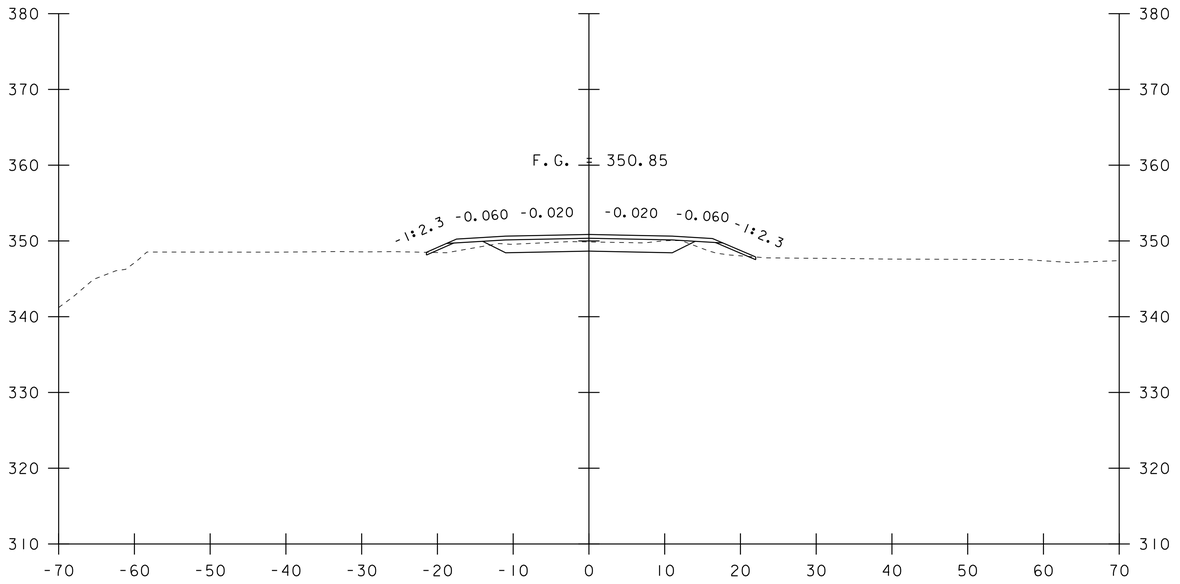
SCALE: 1" = 10'-0"

STA. 11+50 TO STA. 12+25

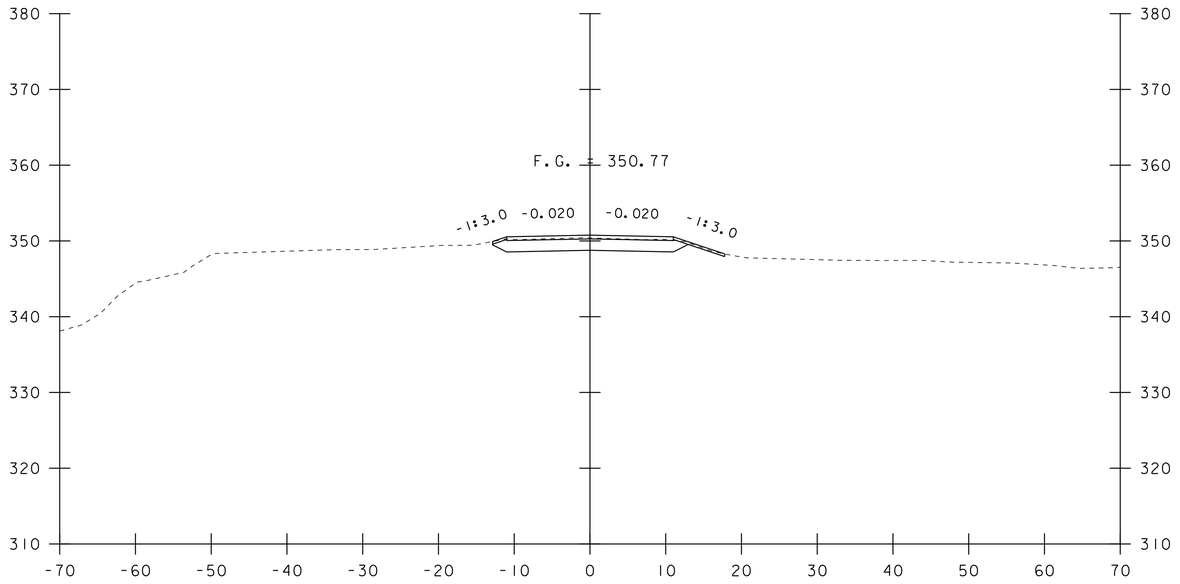
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 12 CROSS SECTIONS 3

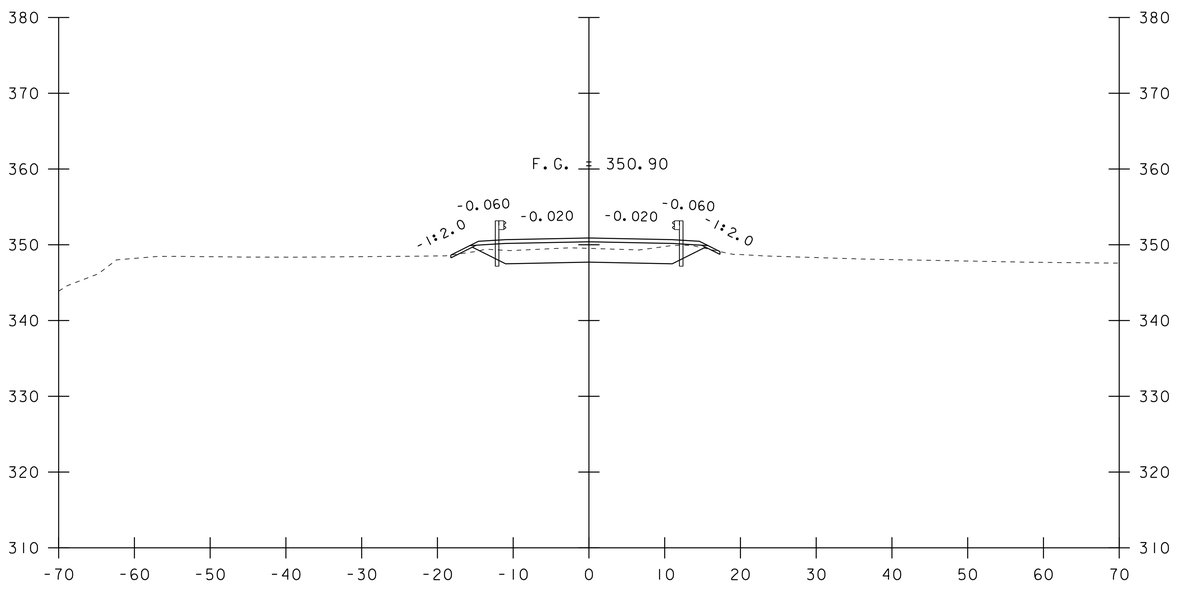
PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 17 OF 26



12+75

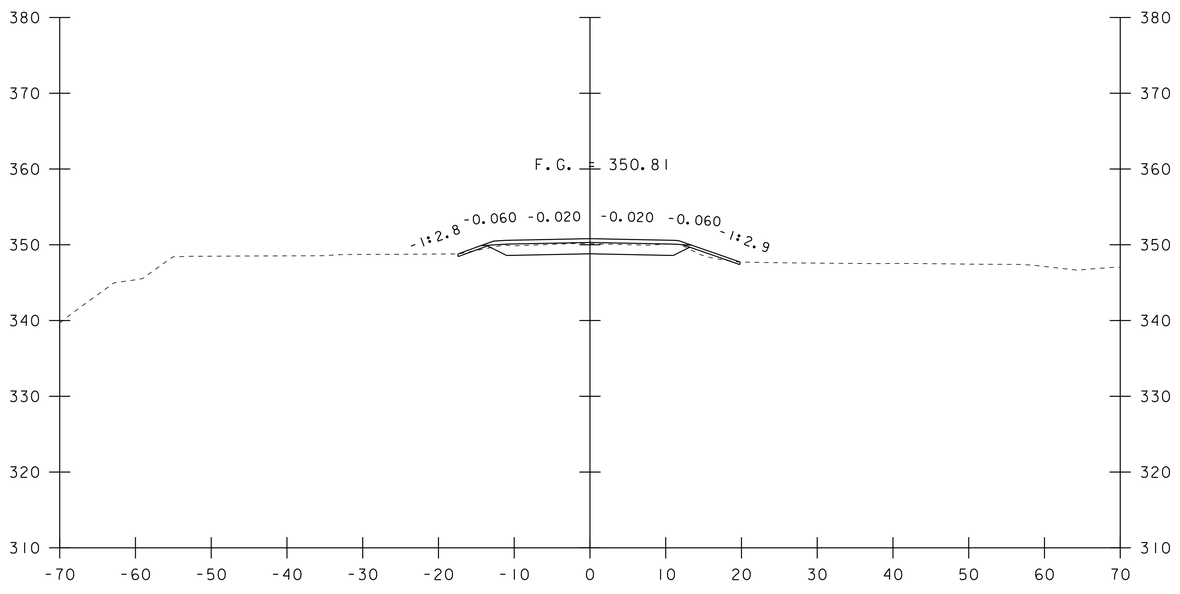


13+25



STA 12+29.50
END BRIDGE

12+50



13+00

10 0 10

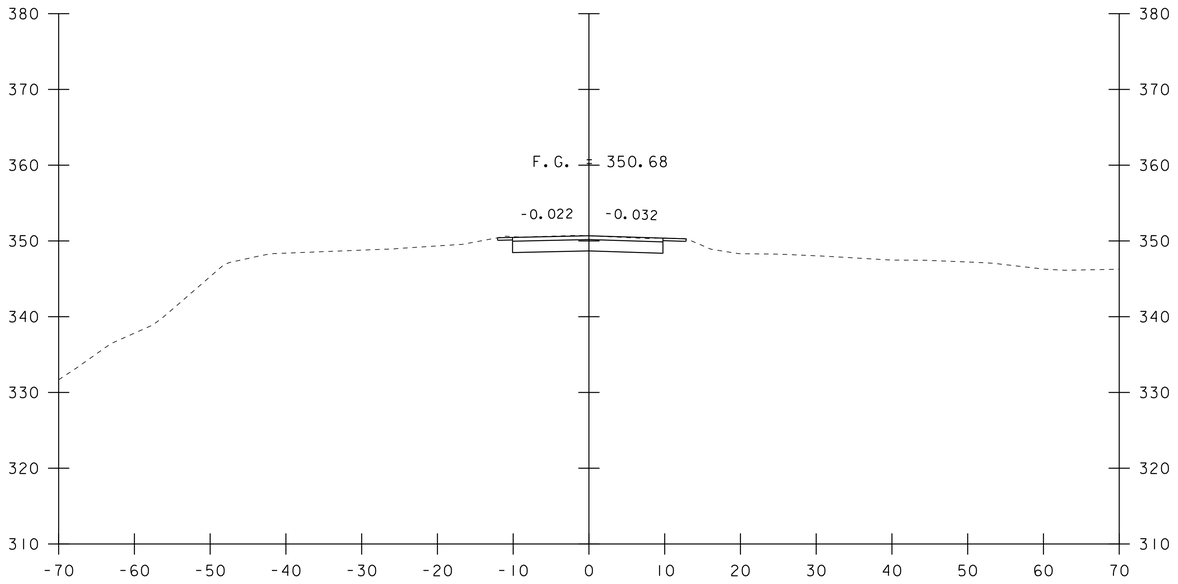
SCALE: 1" = 10'-0"

STA. 12+50 TO STA. 13+25

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

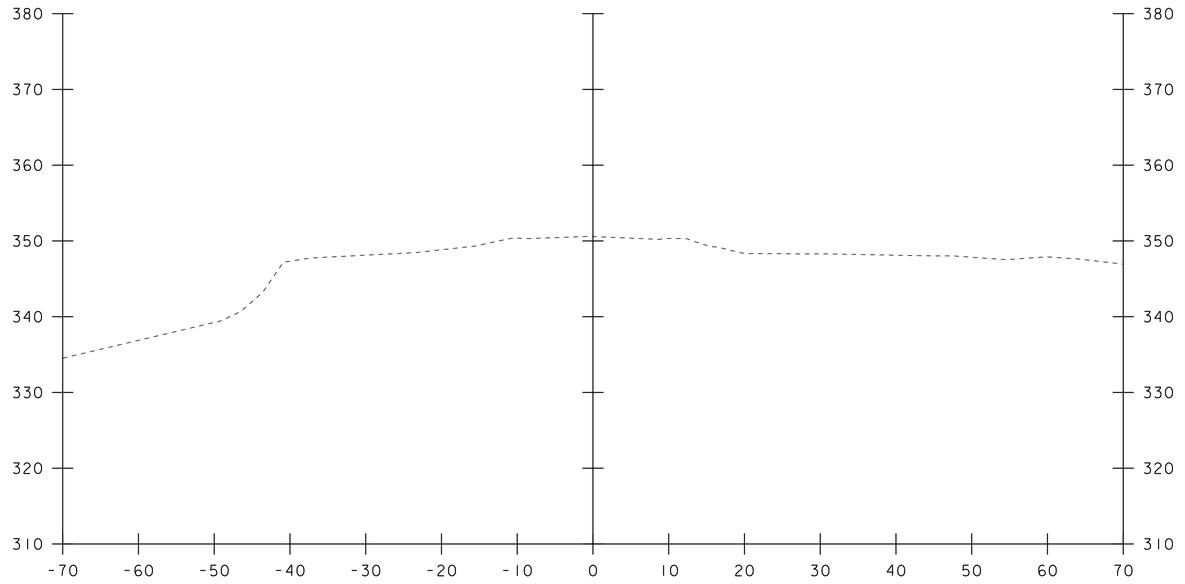
FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 12 CROSS SECTIONS 4

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL

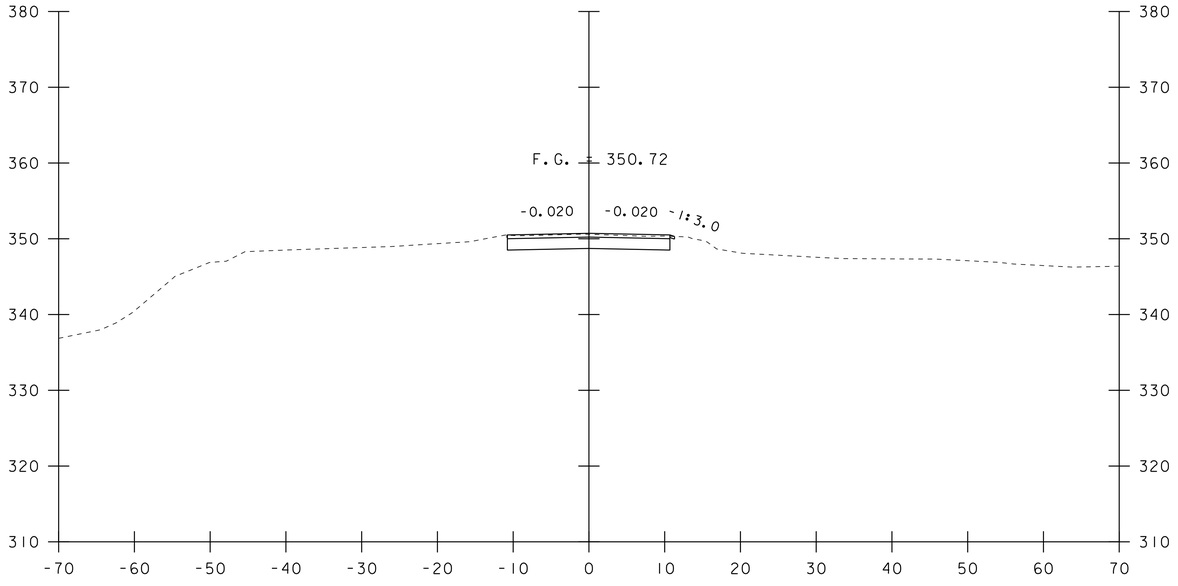


13+75

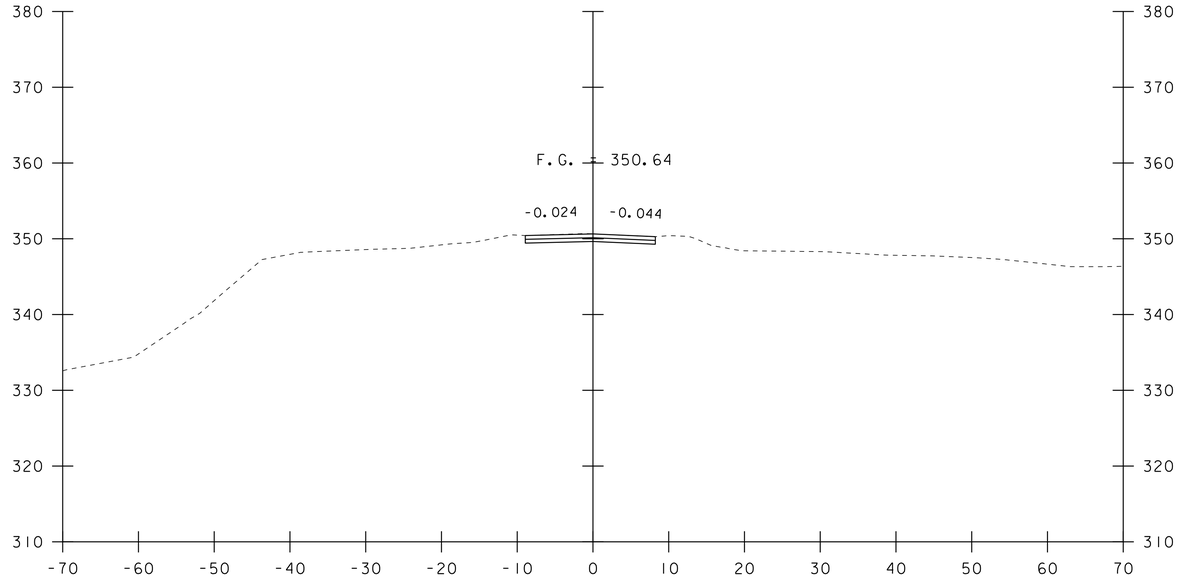
STA 13+75.00
END PROJECT



14+25



13+50



14+00

STA 14+00.00
END APPROACH
MATCH EXISTING

10 0 10

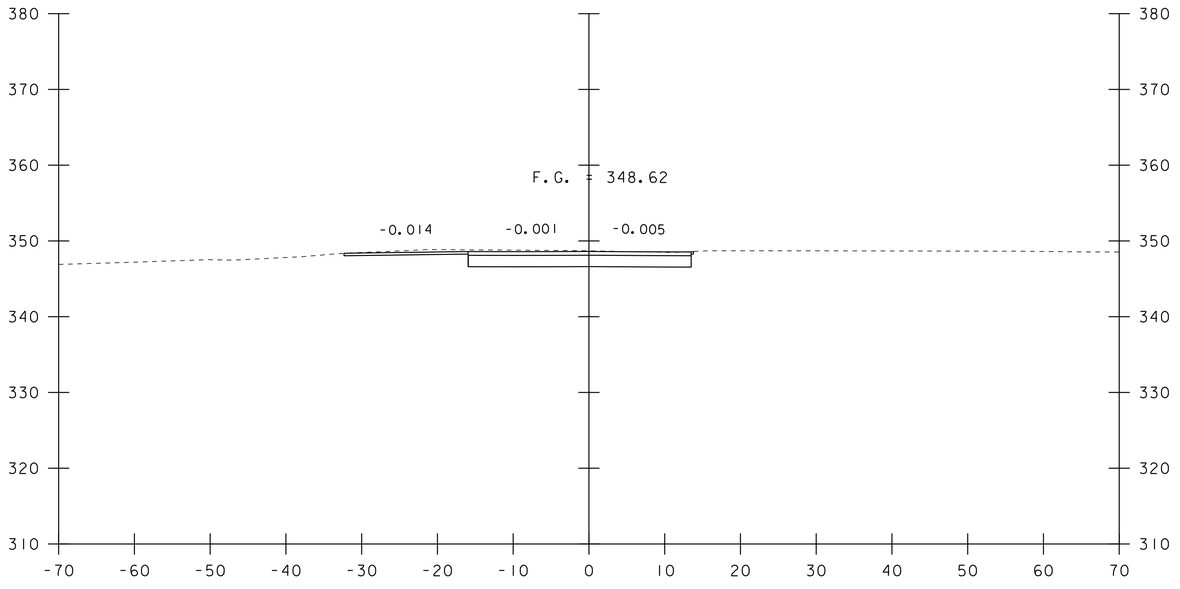
SCALE: 1" = 10'-0"

STA. 13+50 TO STA. 14+25

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

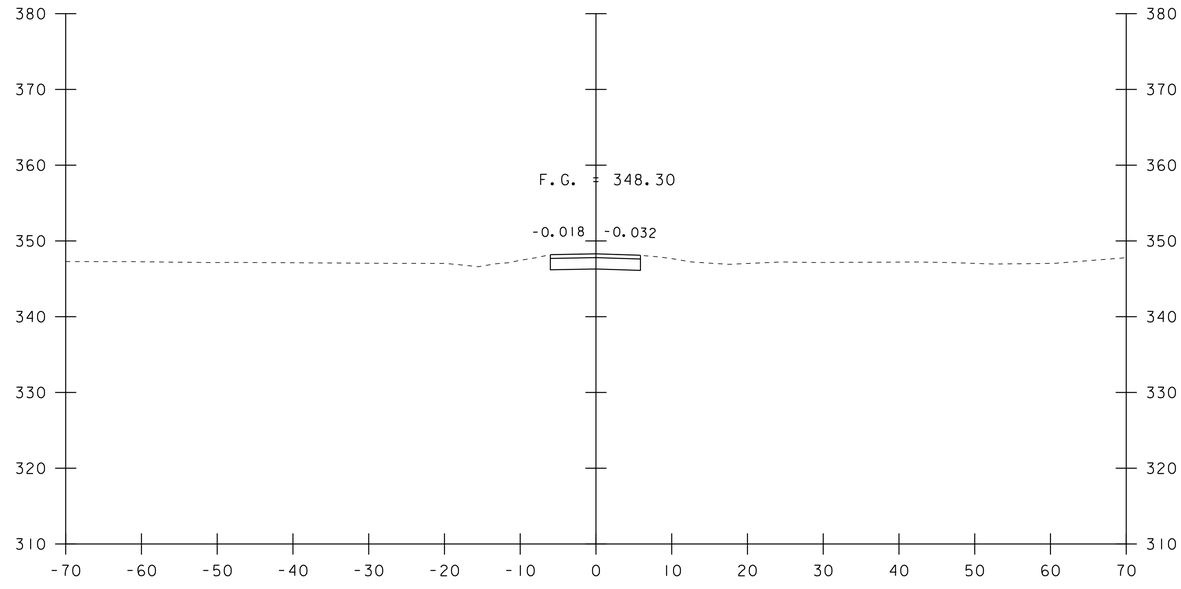
FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 12 CROSS SECTIONS 5

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 19 OF 26



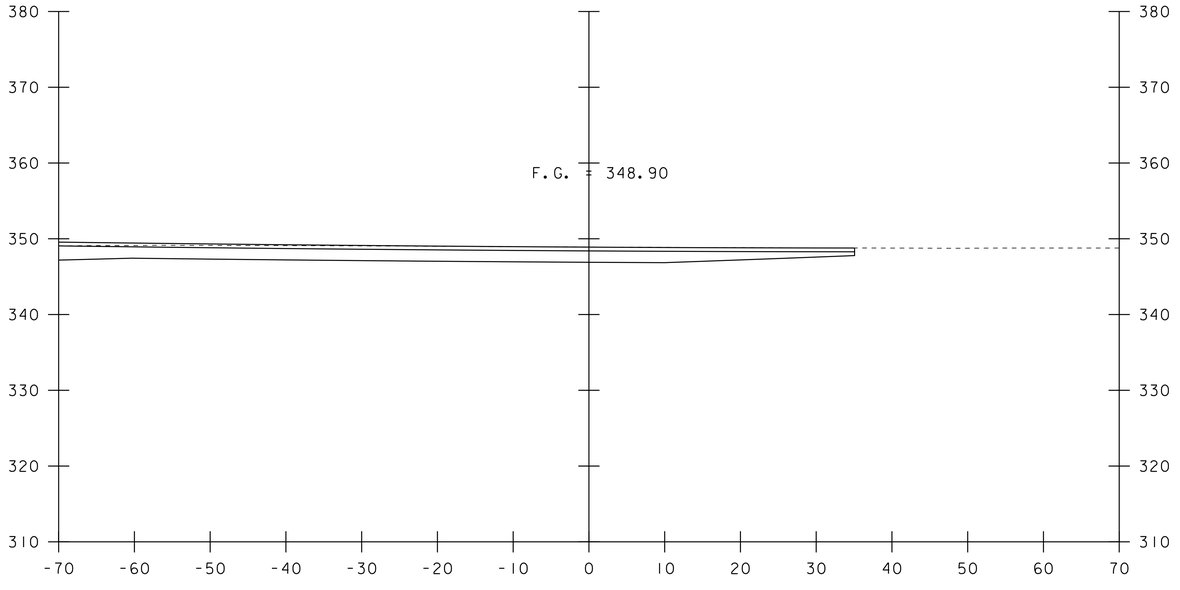
STA 20+11.00
BEGIN TH 10 APPROACH

20+25

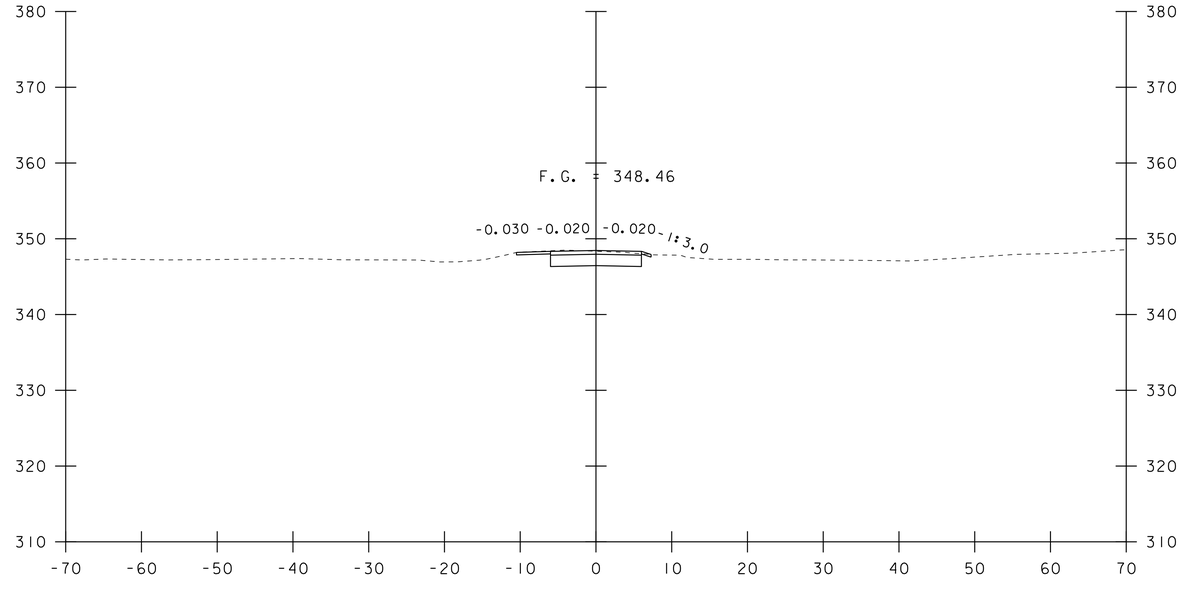


STA 20+75.00
END TH 10 APPROACH
MATCH EXISTING

20+75



20+00



20+50

10 0 10

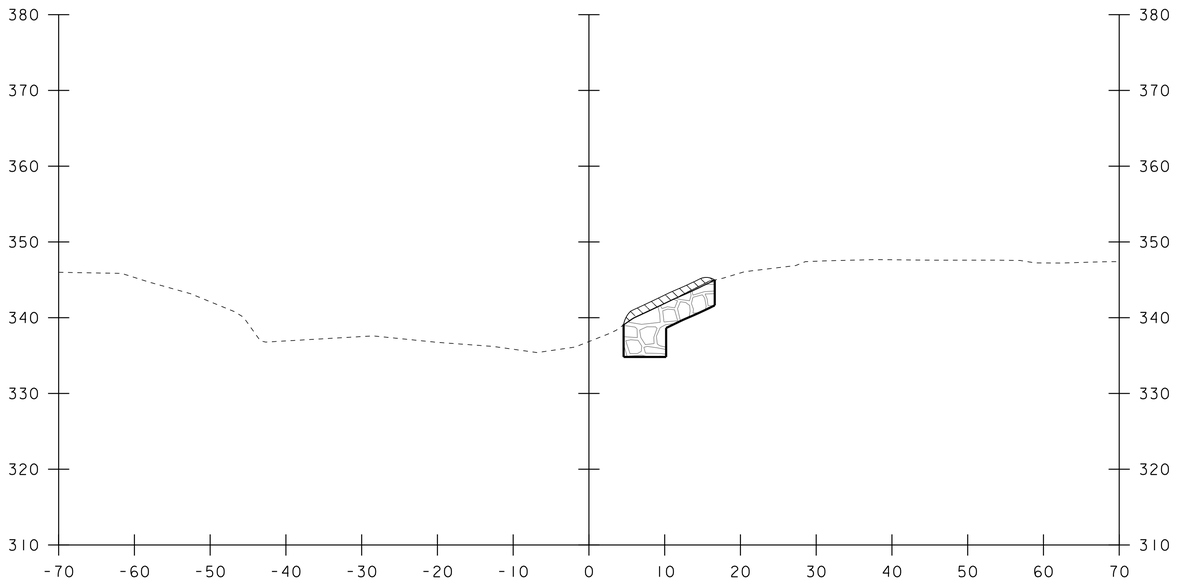
SCALE: 1" = 10'-0"

STA. 20+00 TO STA. 20+75

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

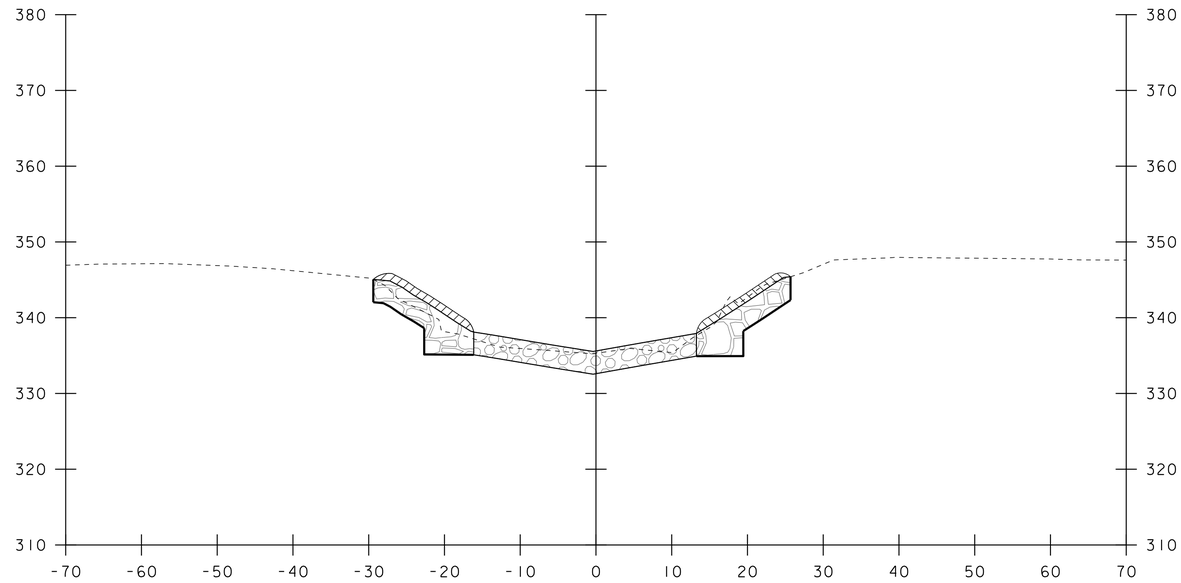
FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
TH 10 CROSS SECTIONS

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 20 OF 26

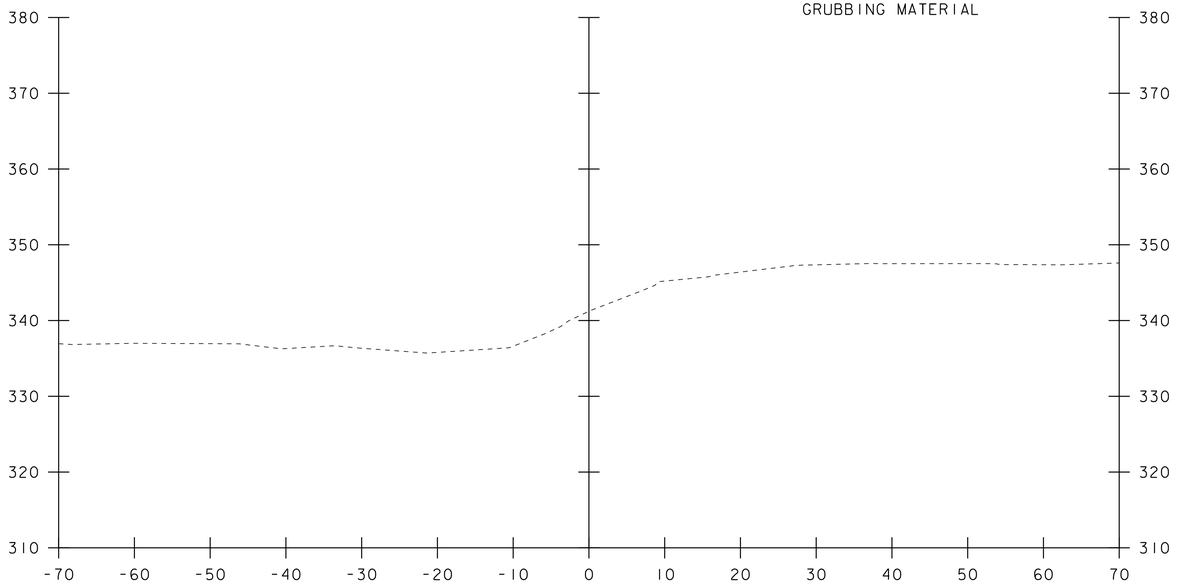


50+30

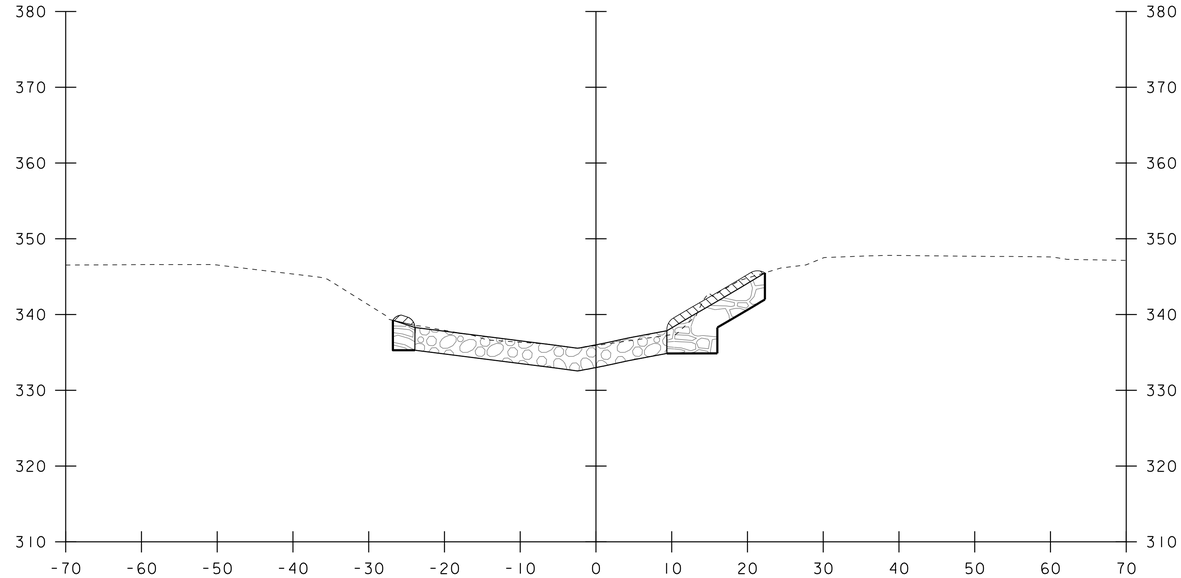
STA 50+23.9 RT
BEGIN UNCLASSIFIED CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, TYPE III
GRUBBING MATERIAL



50+50



50+20



50+40

STA 50+31.0 RT
BEGIN STONE FILL, STREAM BED MATERIAL
(E-STONE, TYPE III)

10 0 10

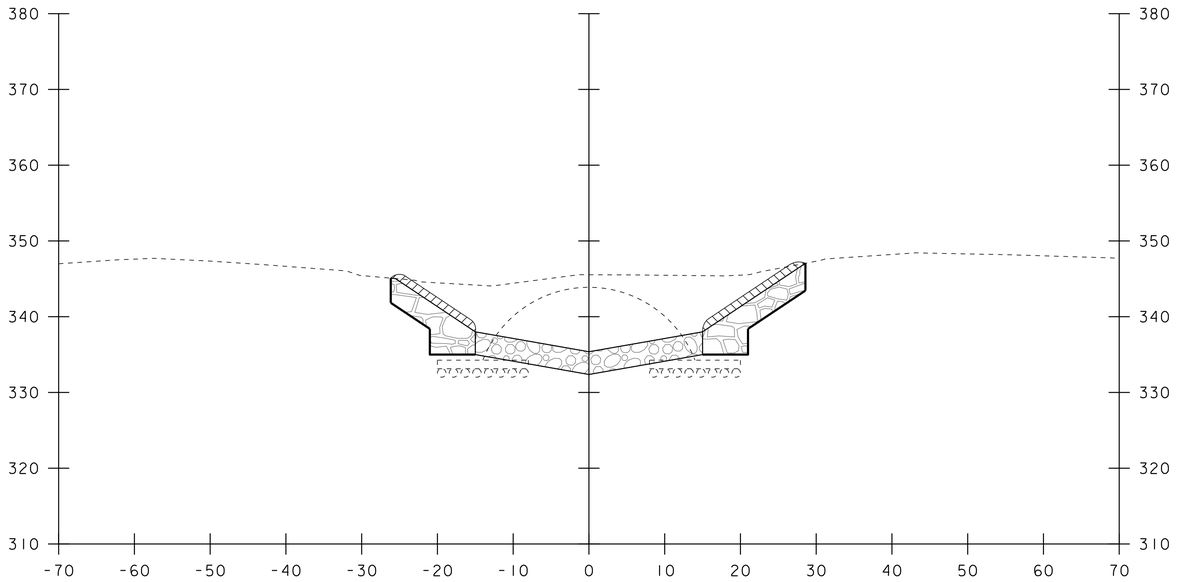
SCALE: 1" = 10'-0"

STA. 50+20 TO STA. 50+50

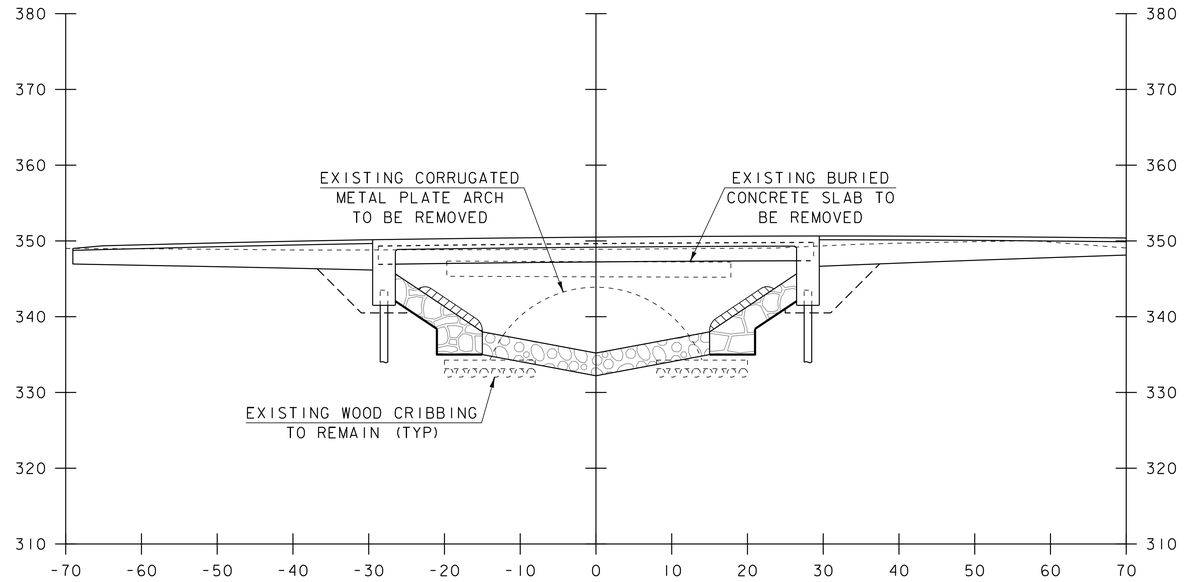
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445 (37)

FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS I

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 21 OF 26



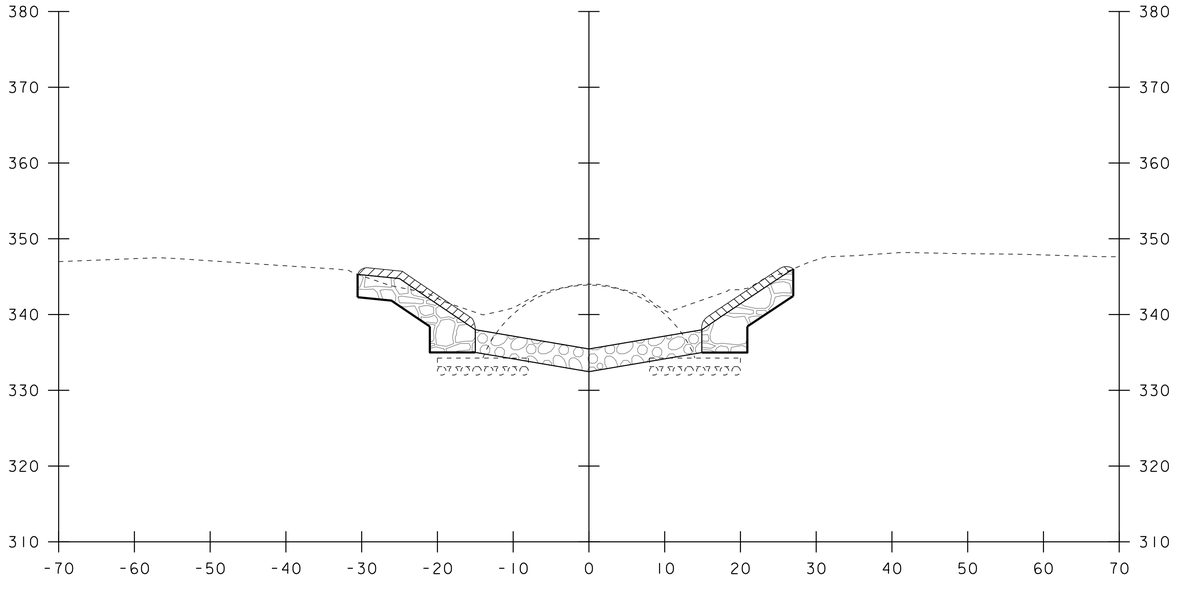
50+70



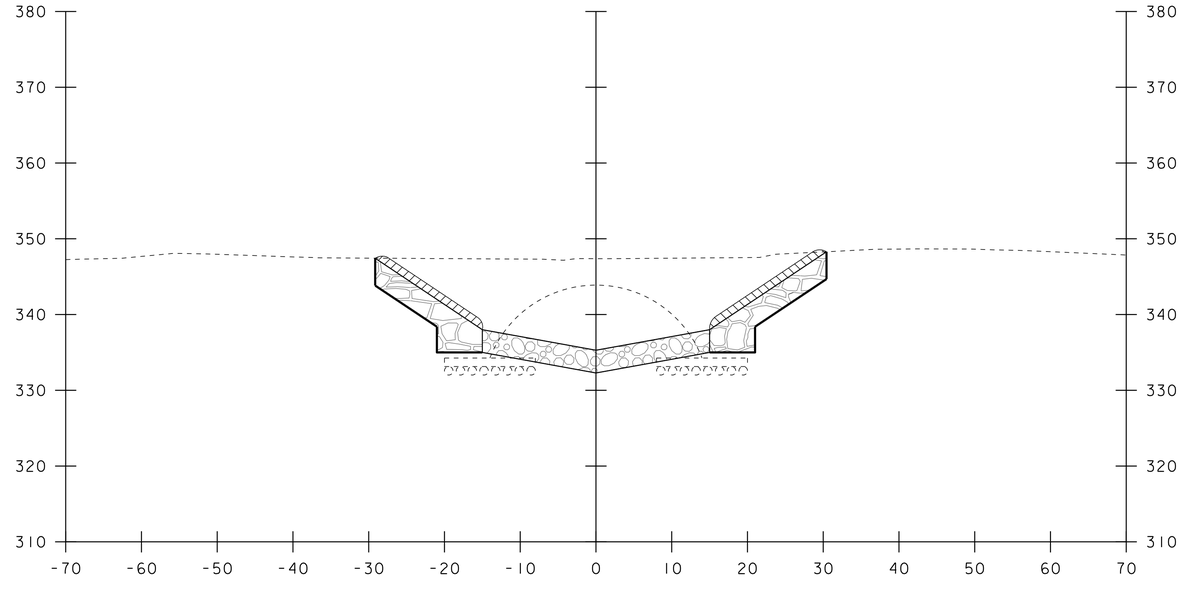
STA 50+83.4 LT
BEGIN STRUCTURE EXCAVATION
GRANULAR BACKFILL FOR STRUCTURES

50+90

STA 50+83.4 RT
BEGIN STRUCTURE EXCAVATION
GRANULAR BACKFILL FOR STRUCTURES



50+60



50+80

10 0 10

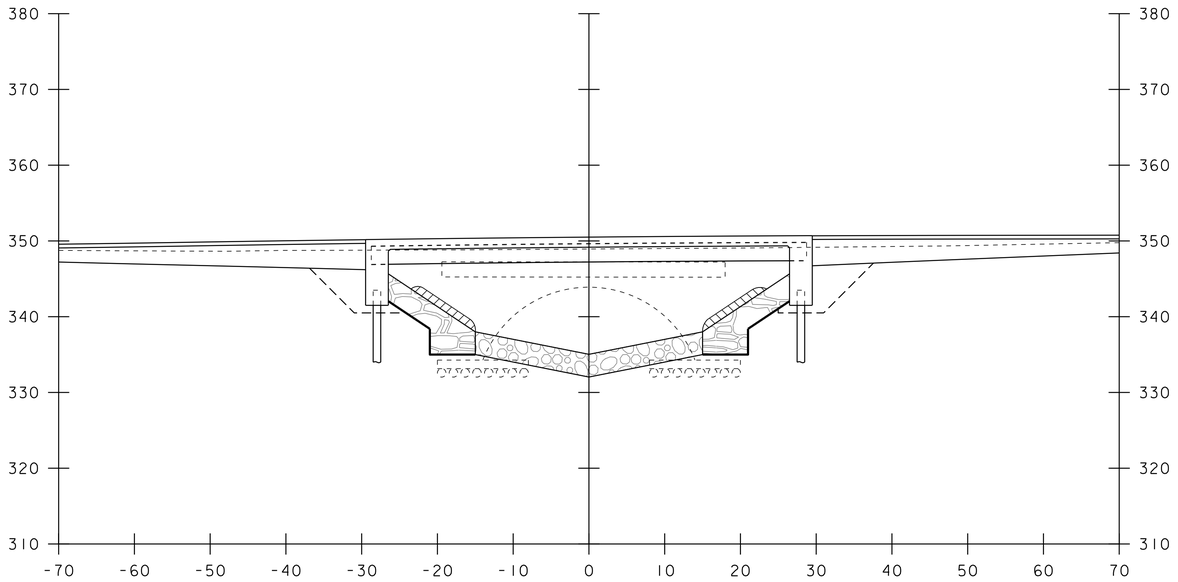
SCALE: 1" = 10'-0"

STA. 50+60 TO STA. 50+90

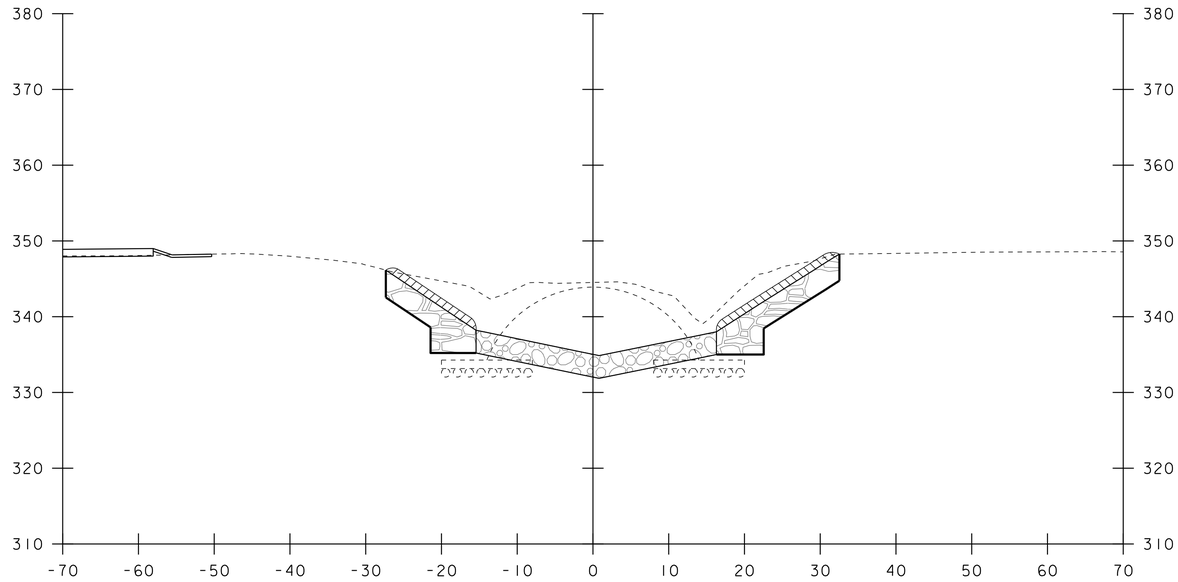
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 2

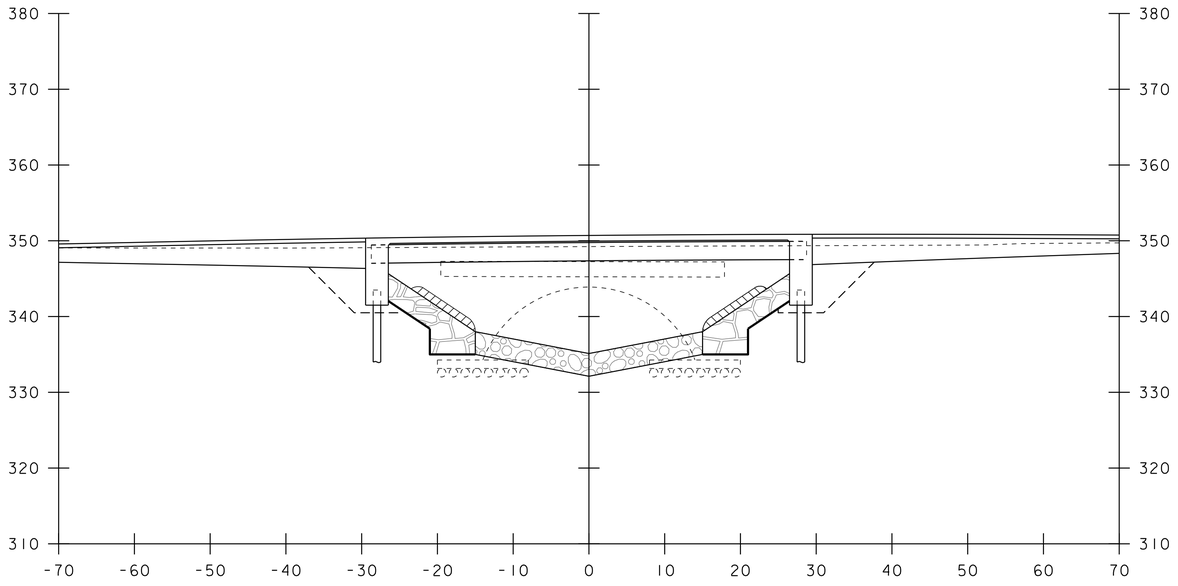
PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 22 OF 26



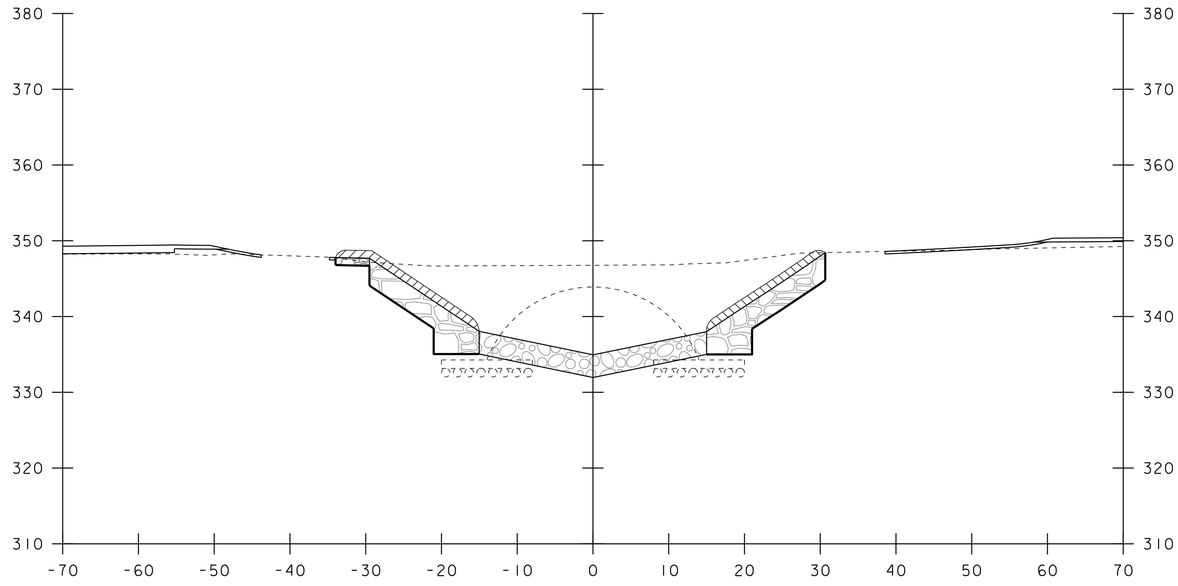
51+10



51+30



51+00



STA 51+18.9 LT
END STRUCTURE EXCAVATION
GRANULAR BACKFILL FOR STRUCTURES

51+20

STA 51+18.9 RT
END STRUCTURE EXCAVATION
GRANULAR BACKFILL FOR STRUCTURES

10 0 10

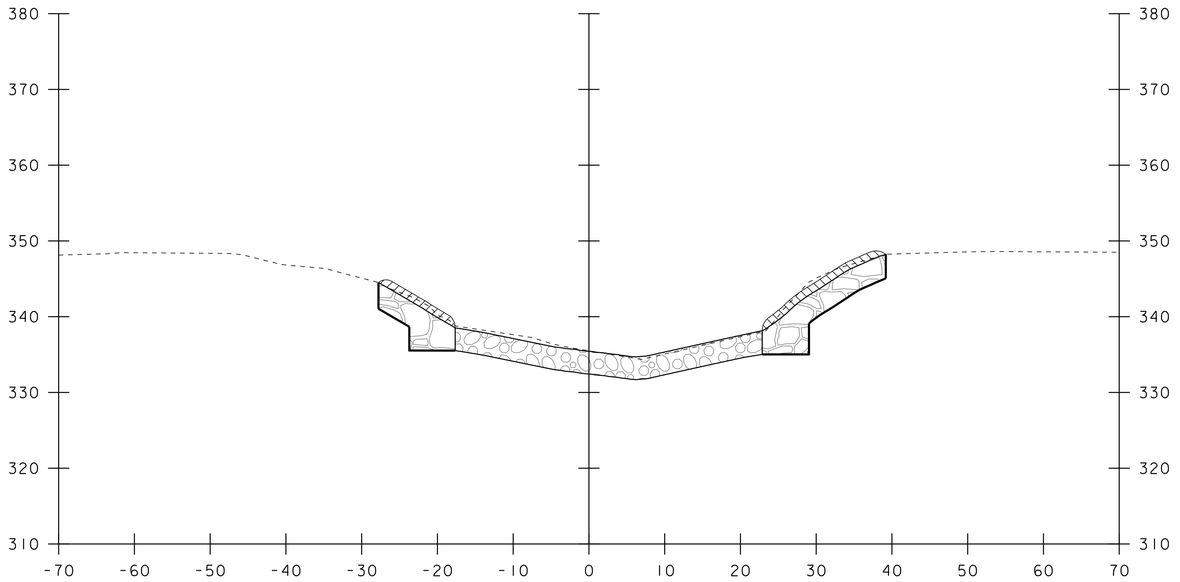
SCALE: 1" = 10'-0"

STA. 51+00 TO STA. 51+30

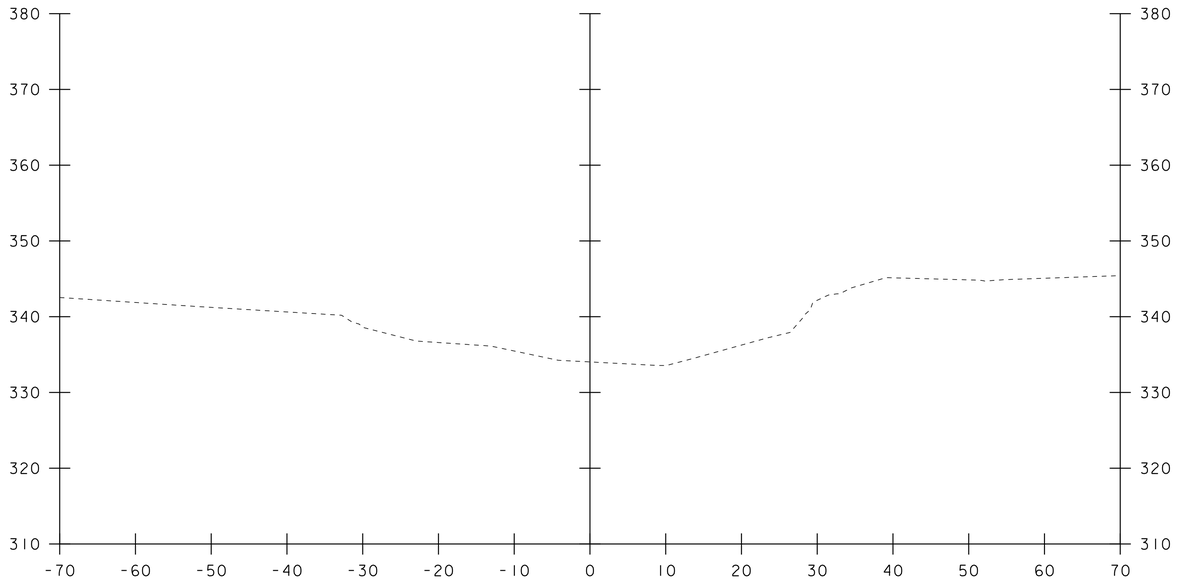
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 3

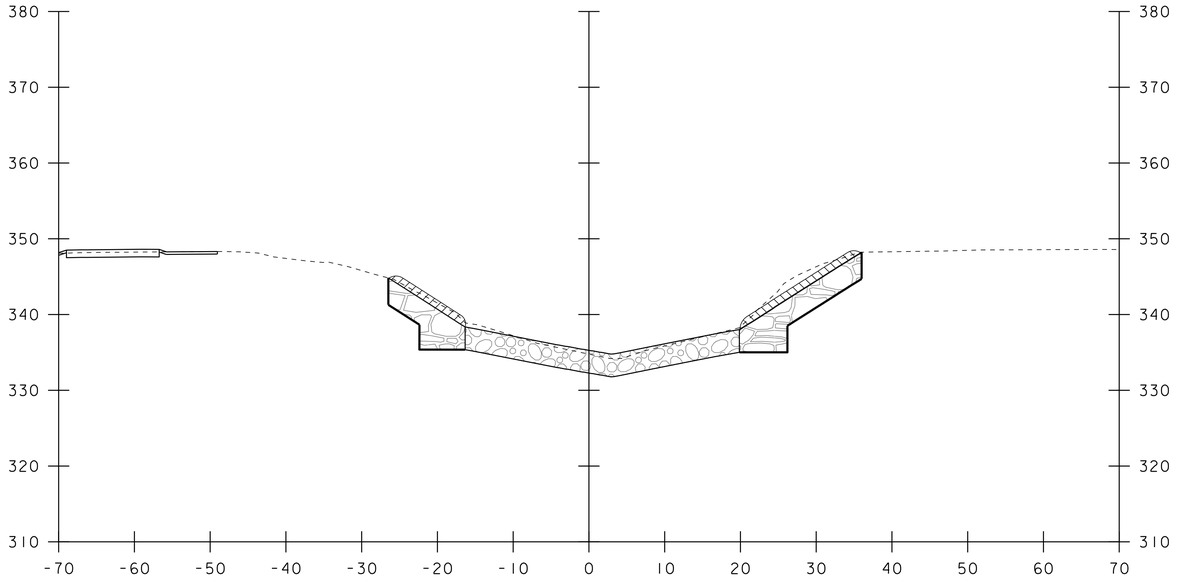
PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 23 OF 26



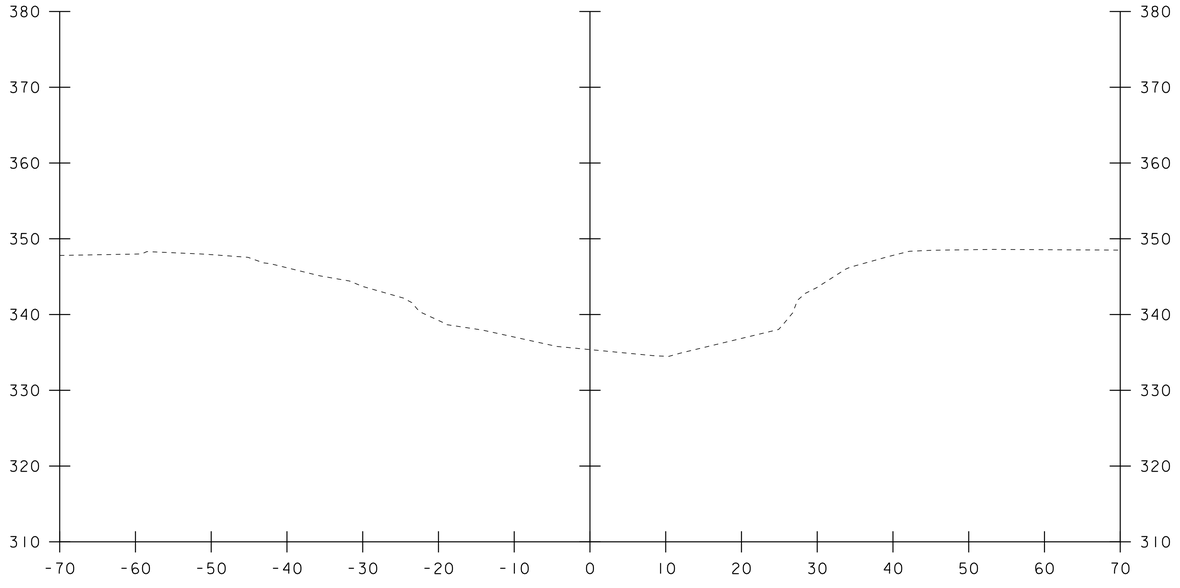
51+50



51+70



51+40



51+60

STA 51+60.0 LT & RT
END UNCLASSIFIED CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
STONE FILL, STREAM BED MATERIAL (E-STONE, TYPE III)
STONE FILL, TYPE III
GRUBBING MATERIAL

10 0 10

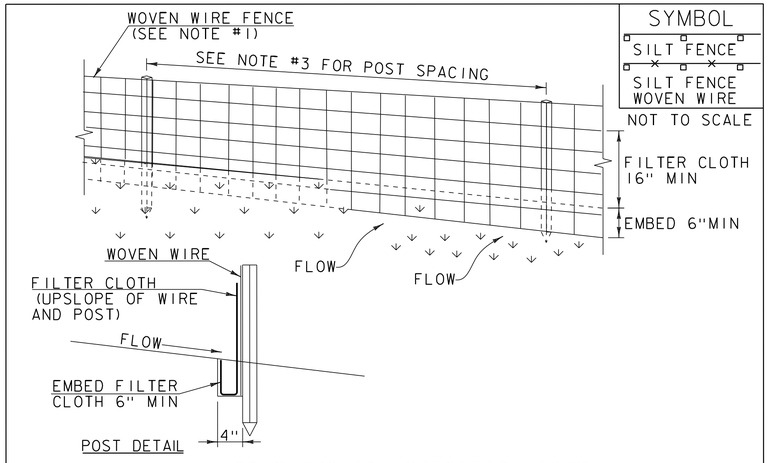
SCALE: 1" = 10'-0"

STA. 51+40 TO STA. 51+70

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636xsl.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
CHANNEL CROSS SECTIONS 4

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 24 OF 26



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

VAOT LOW GROW/FINE FESCUE MIX

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
38%	57	95	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
37.5%	22.5	45	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

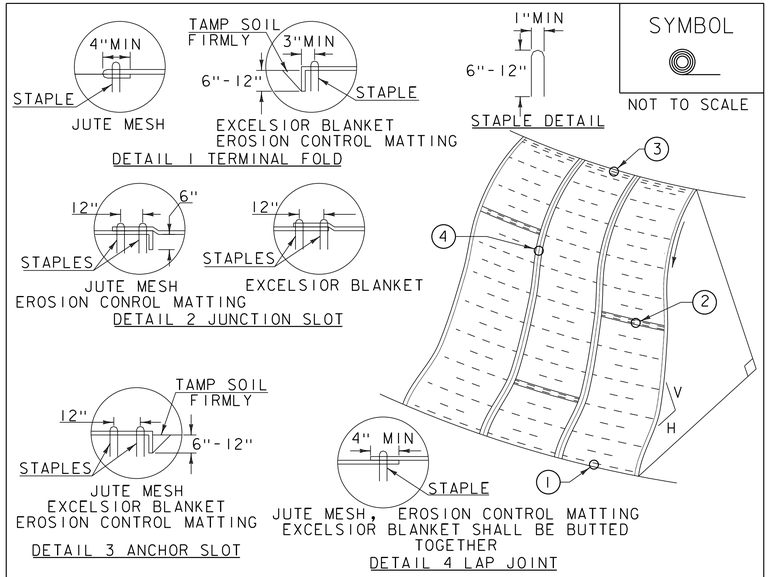
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 12, 2015	WHF



CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) ~~OR PERMANENT EROSION MATTING (PAY ITEM 653.21).~~

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

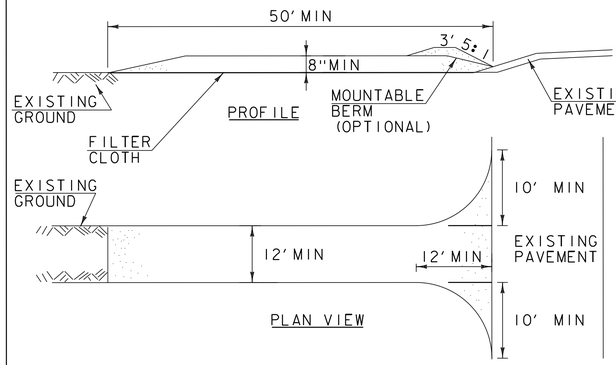
PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636erodetails.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
EPSC DETAILS 1

PLOT DATE: 02-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 25 OF 26

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

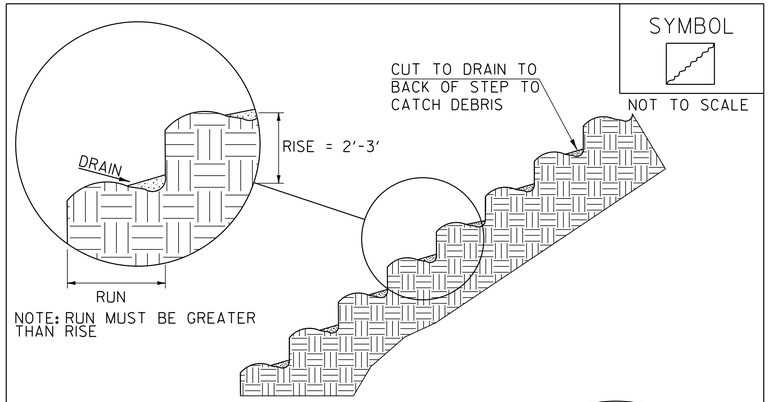
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

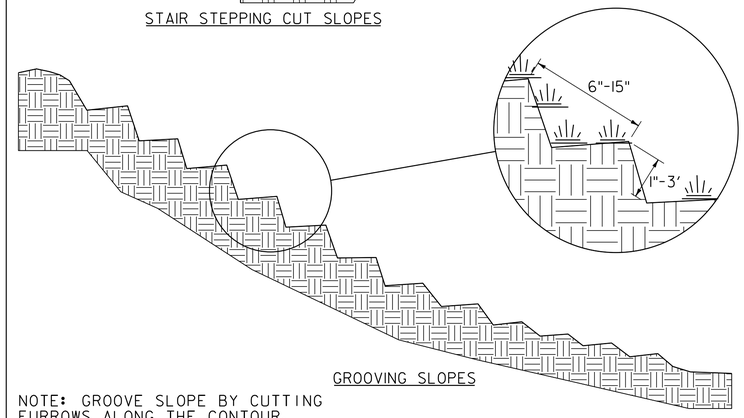
SYMBOL

NOT TO SCALE



NOTE: RUN MUST BE GREATER THAN RISE

STAIR STEPPING CUT SLOPES



GROOVING SLOPES

NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SURFACE ROUGHENING

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: LEICESTER
PROJECT NUMBER: BO 1445(37)

FILE NAME: sl2j636erodetails.dgn
PROJECT LEADER: C. COTA
DESIGNED BY: C. BURRALL
EPSC DETAILS 2

PLOT DATE: 03-OCT-2019
DRAWN BY: G. ROY
CHECKED BY: C. BURRALL
SHEET 26 OF 26