REVIEWER NOTES:

1. ALIGNMENT: THE PROPOSED BRIDGE IS SHOWN TO BE LOCATED ON THE WEST SIDE OF THE EXISTING MILL STREET FOOTPRINT. THIS ALIGNMENT WAS SHIFTED TO THE WEST TO STAY AWAY FROM OVERHEAD WIRES (SEE #3 BELOW) AND THE UTILITY POLE IMMEDIATELY EAST OF THE BRIDGE AS MUCH AS POSSIBLE.

2. PROPOSED BRIDGE/PATH WIDTH IS 8'-0" PER TOWN'S REQUEST.

3. UTILITIES: OVERHEAD WIRES ARE IN CLOSE PROXIMITY TO THE BRIDGE RUNNING ALONG THE EAST SIDE OF MILL STREET AND THE NORTH SIDE OF PLEASANT STREET. IT IS ANTICIPATED THAT THE PROJECT CAN BE CONSTRUCTED WITHOUT THE NEED TO REMOVE/RELOCATE THE WIRES OR POLES, HOWEVER, IT IS EXPECTED THAT THE ELECTRIC WIRES MAY NEED TO BE DE-ENGERIZED DURING PILE INSTALLATION, CRANE OPERATIONS FOR SELECT DEMOLITION AND ERECTION ACTIVITIES.

4. GUARDRAIL/ENDPOSTS: THE PROPOSED TRANSITION BETWEEN THE EXISTING PLEASANT ST. GUARDRAIL AND THE BRIDGE WILL BE A CONCRETE ENDPOST DIRECTLY ABUTTING THE END OF THE BRIDGE. THE GUARDRAIL WILL NOT MEET MASH STANDARDS DUE TO EXISTING CONDITION CONSTRAINTS.

5. HYDRAULIC OPENING WILL BE INCREASED AS THE STRUCTURAL DEPTH OF THE PROPOSED PEDESTRIAN BRIDGE IS SIGNIFICANTLY LESS THAN THE EXISTING HIGHWAY BRIDGE AND THE PROPOSED PROFILE IS A CREST VERTICAL CURVE.

6. ROW IMPACT FOR CRANE SWING: TO DEMOLISH THE EXISTING BRIDGE AND ERECT THE NEW BRIDGE, A CRANE WILL NEED TO SWING OVER PRIVATE PROPERTY AND EXISTING VEGETATION ON THE PRIVATE PROPERTY MAY NEED TO BE TRIMMED. TEMPORARY EASEMENTS MAY BE REQUIRED FOR CRANE OPERATION.

7. THE MATERIALS ON THE PROPOSED BRIDGE ARE SHOWN IN THIS PLAN SET AS CONCRETE DECK AND WOOD RAILINGS. OTHER MATERIALS CAN BE USED IF VTRANS OR THE TOWN PREFER A DIFFERENT MATERIAL OR FINISH.

8. STEEL TRUSS IS TO BE GALVANIZED AND MAY BE PAINTED AS DIRECTED BY TOWN/HISTORIC.

9. MILL STREET & PLEASANT STREET PAVEMENT DESIGN: SHALL BE REVIEWED AND APPROVED BY THE VTRANS PAVEMENT DESIGN GROUP.

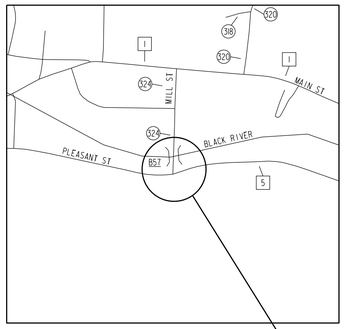
10. GEOTECHNICAL: BORINGS WILL BE REQUIRED FOR THE DESIGN OF THE PROPOSED UNDERPINNING OF THE SOUTH ABUTMENT.

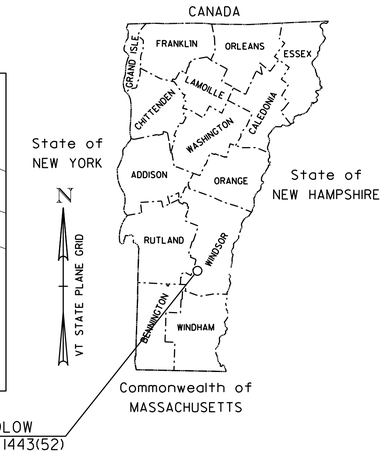
11. EXISTING SEWER INVERTS AND SIZE IN PLEASANT STREET SHALL BE DETERMINED AND SHOWN ON THE FINAL DESIGN PLANS. SURVEY REQUIRED.

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 : VTRANS SURVEYED DATE : 1/9/2017
DATUM VERTICAL NAVD88 HORIZONTAL NAD83

STATE OF VERMONT
AGENCY OF TRANSPORTATION





PROPOSED IMPROVEMENT
BRIDGE PROJECT

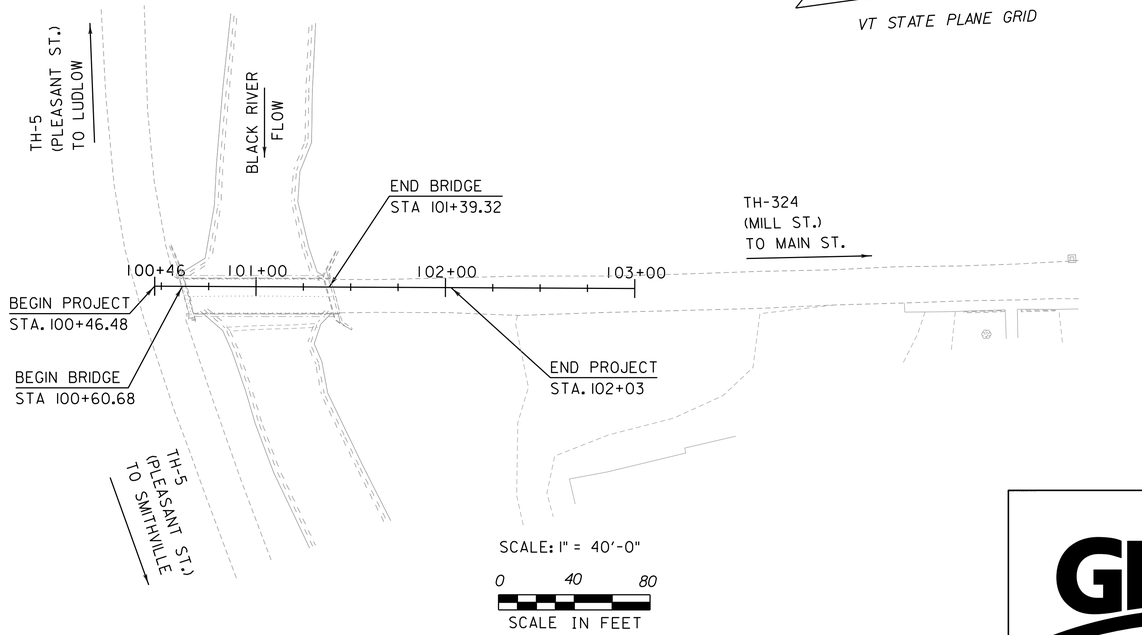
TOWN OF LUDLOW
COUNTY OF WINDSOR

ROUTE NO: TH 324 (MILL STREET), CLASS 3, LOCAL ROAD
BRIDGE NO: 57 OVER BLACK RIVER

PROJECT LOCATION: BRIDGE 57 IS LOCATED ON TH-324, MILL STREET IN LUDLOW VILLAGE OVER BLACK RIVER. THE SOUTH END OF THE BRIDGE IS AT THE INTERSECTION OF MILL STREET AND TH-5, PLEASANT STREET

PROJECT DESCRIPTION: REMOVAL OF EXISTING TRUSS SUPERSTRUCTURE AND CONSTRUCTION OF A PEDESTRIAN BRIDGE ON THE EXISTING ABUTMENTS WITH RELATED SUBSTRUCTURE REPAIR, APPROACH WORK, AND INCIDENTAL ITEMS.

LENGTH OF STRUCTURE: 78.64 FEET
LENGTH OF ROADWAY: 77.88 FEET
TOTAL LENGTH OF PROJECT: 156.52 FEET



PRELIMINARY PLANS
FEBRUARY 19, 2021

GILL ENGINEERING

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____

PROJECT MANAGER : TODD SUMNER, PE

PROJECT NAME : LUDLOW VILLAGE
PROJECT NUMBER : BO 1443(52)

SHEET 1 OF 19 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

DETAIL SHEETS

HIGHWAY SAFETY AND DESIGN DETAIL SHEETS

STANDARDS LIST

FINAL HYDRAULIC REPORT

HYDRAULIC REPORT WILL BE PROVIDED AFTER INPUT RECEIVED FROM VTRANS HYDRAULICS

TRAFFIC MAINTENANCE NOTES

1. MILL STREET BRIDGE TO REMAIN PERMANENTALY CLOSED TO VEHICULAR TRAFFIC.
2. TRAFFIC TO BE MAINTAINED ON PLEASANT STREET AS SIGNAL CONTROLLED SINGLE LANE ALTERNATING ROADWAY DURING CONSTRUCTION.

DESIGN VALUES

1. DESIGN LIVE LOAD		H-10
2. FUTURE PAVEMENT	d_p:	--- INCH
3. DESIGN SPAN	L:	78.14 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:	3.5 KSI
11. CONCRETE, CLASS C	f'_c:	3.0 KSI
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270	f_y:	50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	--- KSF
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	--- 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. STRUCTURAL TUBE STEEL ASTM A500 GRADE B	Fy:	46 KSI
24.		- - -
25.		- - -
26.		- - -

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
TONNAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	BRIDGE DESIGNED FOR H-10 VEHICLE LOADING AND 0.090 k/sf PEDESTRIAN LOADING.						

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2018	N/A	N/A	N/A	N/A	N/A
2038	N/A	N/A	N/A	N/A	N/A

20 year ESAL for flexible pavement from 2018 to 2038 : N/A

40 year ESAL for flexible pavement from 2018 to 2058 : N/A

Design Speed : N/A mph

AS BUILT "REBAR" DETAIL

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

PROJECT NAME: **LUDLOW VILLAGE**

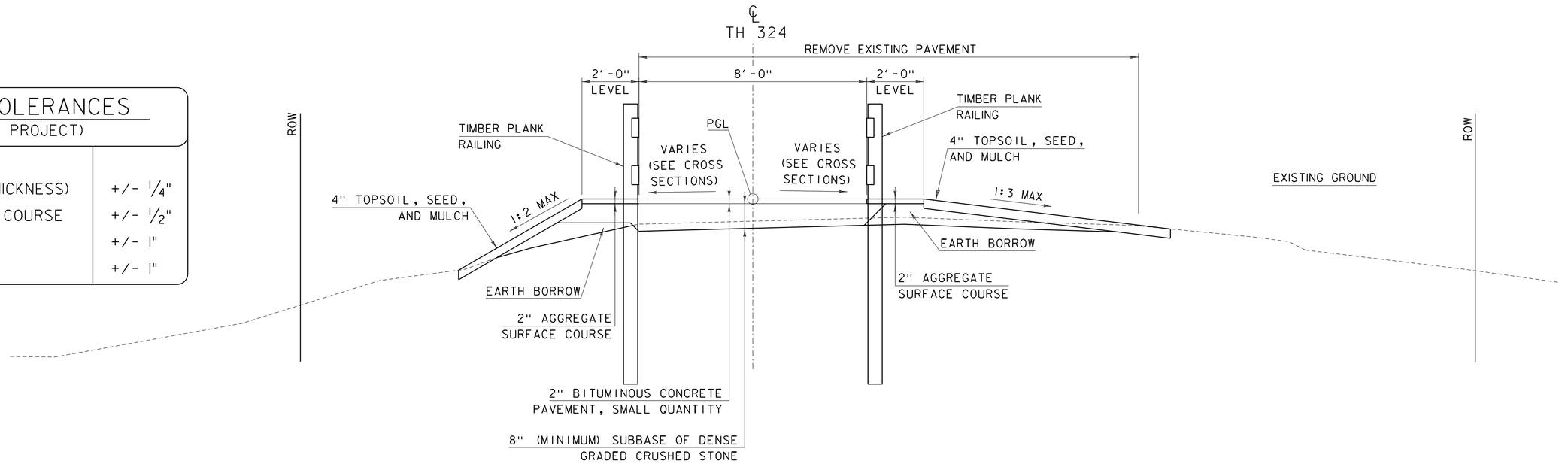
PROJECT NUMBER: **B0 1443(52)**

FILE NAME: **z12j638pi.dgn**
PROJECT LEADER: **G.KOBER**
DESIGNED BY: **D.CASALE**
PRELIMINARY INFORMATION SHEET

PLOT DATE: 2/19/2021
DRAWN BY: **D.CASALE**
CHECKED BY: **G.KOBER**
SHEET 2 OF 19

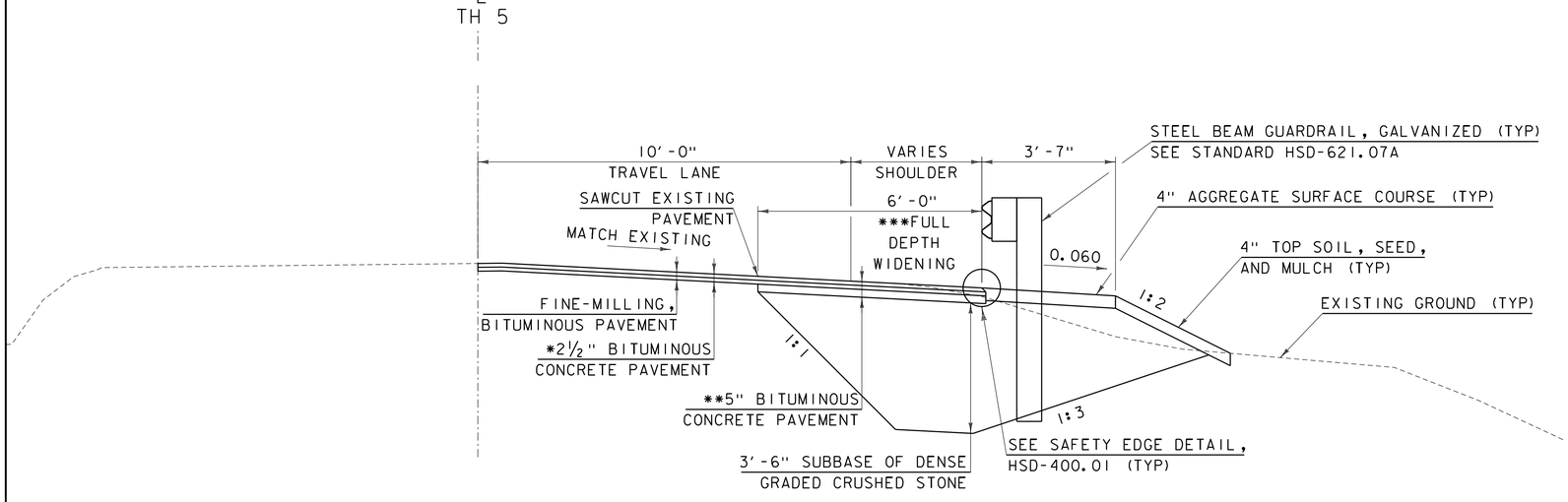
MATERIAL TOLERANCES
(IF USED ON PROJECT)

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



PROPOSED TH 324 SHARED USE PATH TYPICAL SECTION

SCALE 1/2" = 1-0"



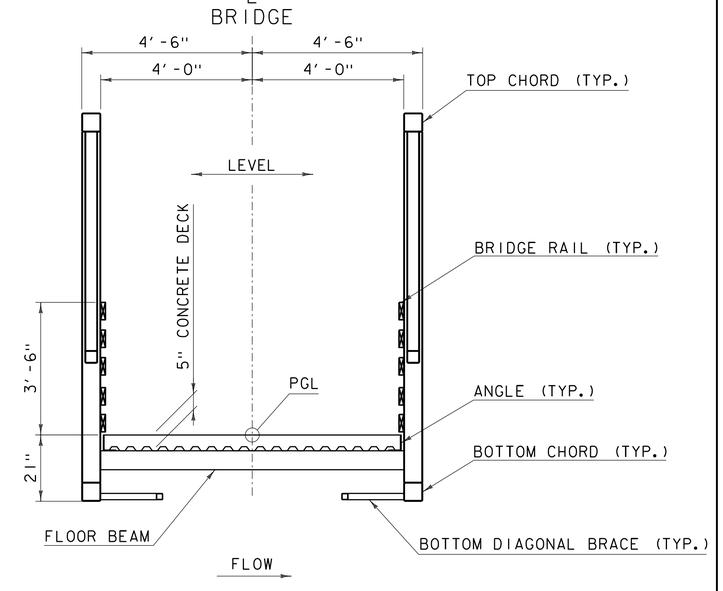
PROPOSED TH 5 WIDENING TYPICAL SECTION

SCALE 1/2" = 1-0"

*2 1/2" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
1 1/4" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS (2 LIFTS)

**5" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
1 1/4" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS (2 LIFTS)
2 1/2" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIS

***PROPOSED FULL DEPTH WIDENING SHALL INCLUDE AREAS NECESSARY FOR EXCAVATION AND CONSTRUCTION OF MOMENT SLAB RAIL (SEE DETAIL ON EARTHWORK SECTIONS SHEET)



PEDESTRIAN BRIDGE REPLACEMENT TYPICAL SECTION

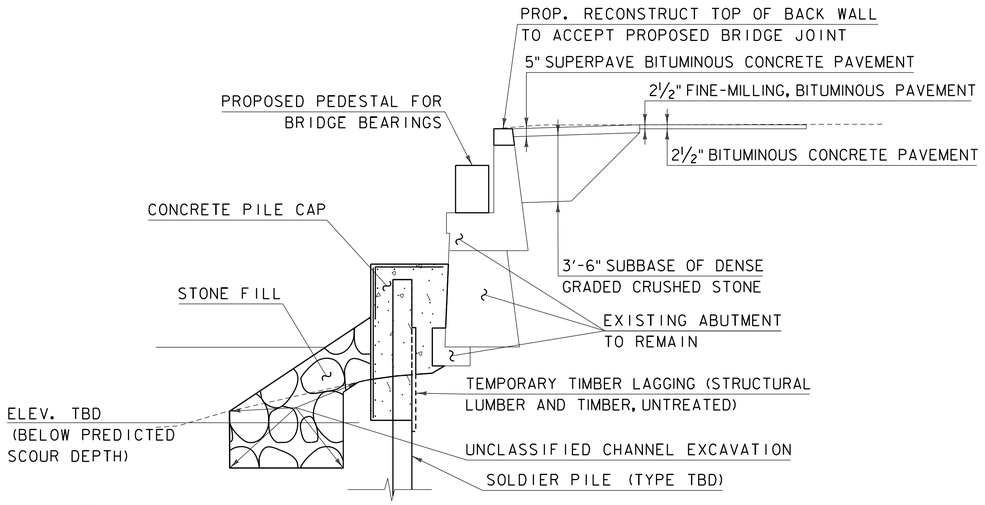
SCALE 1/2" = 1-0"

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12j638typ.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
TYPICAL SECTIONS SHEET

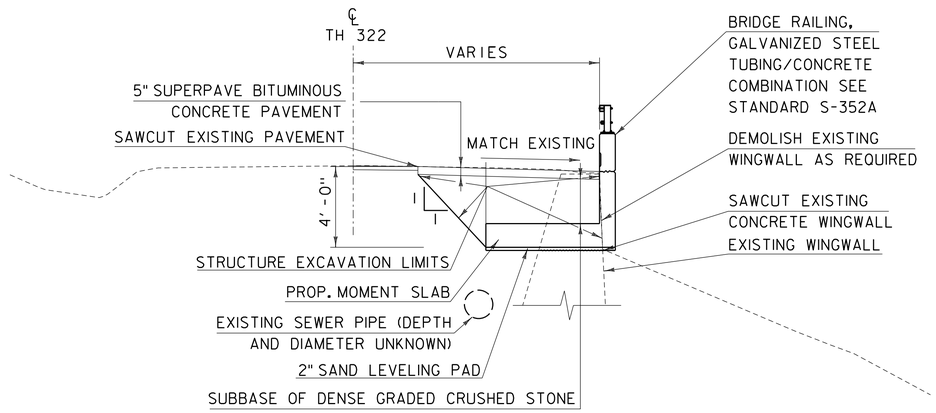
PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------



NOTE:
UNDERPINNING TO BE INSTALLED PRIOR TO REMOVAL OF EXISTING BRIDGE.

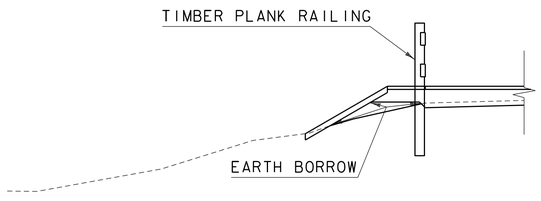
TYPICAL SOUTH ABUTMENT SCOUR/UNDERPINNING REPAIR

NOT TO SCALE



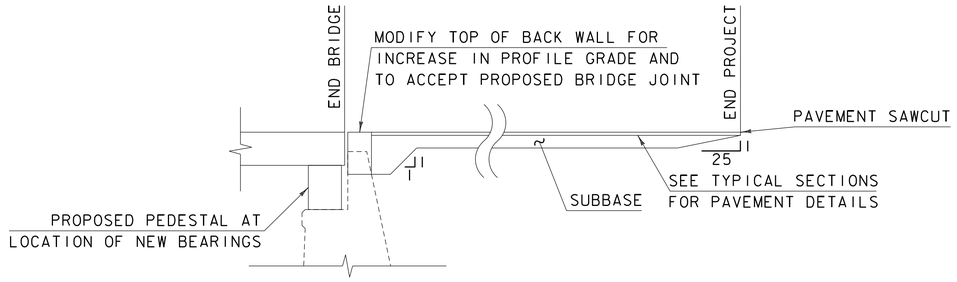
MOMENT SLAB RAIL AT SOUTHWEST WINGWALL

SCALE: ¼" = 1'-0"



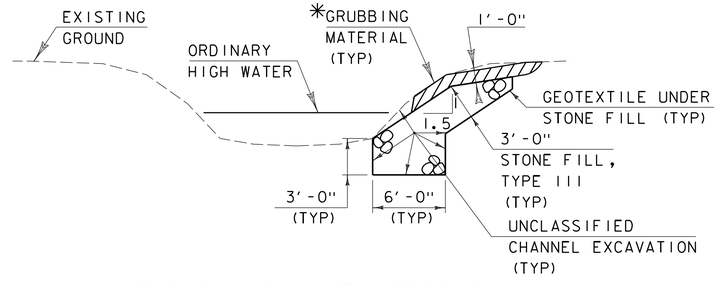
TIMBER PLANK RAILING

NOT TO SCALE



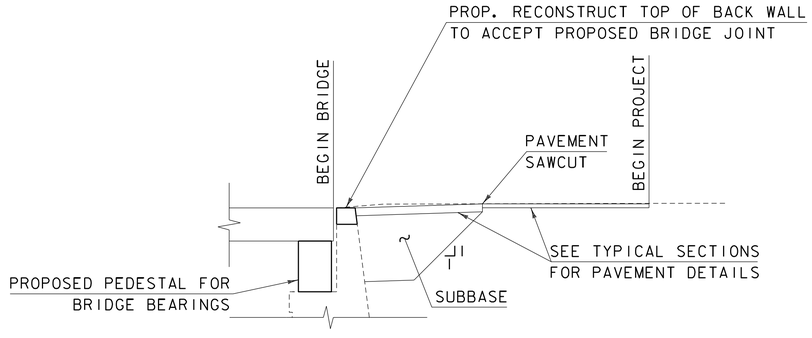
MATERIAL TRANSITION (NORTH ABUTMENT)

NOT TO SCALE



TYPICAL CHANNEL SECTION

(NOT TO SCALE)



MATERIAL TRANSITION (SOUTH ABUTMENT)

NOT TO SCALE

*NOTES

1) 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 UNDERNEATH DOWNSPOUTS. SEE THE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

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

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12j638earthwork.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
EARTHWORK SECTIONS SHEET

PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------

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
	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
	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 — PROJECT DEMARCATION FENCE
- 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 PROPERTY BOUNDARY
- 4f — 4F PROPERTY BOUNDARY
- 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

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(53)

FILE NAME: Z12J638legend.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: VTRANS
LEGEND SHEET

PLOT DATE: 2/19/2021
DRAWN BY: VTRANS
CHECKED BY: VTRANS
SHEET 5 OF 19

NETWORK CONTROL

HVCTRL #1
BRIGADE AZ MK
NORTH = 326083.6000
EAST = 1591965.7300
ELEV. = 971.8700

THE STATION IS LOCATED ABOUT 6.4 MI (10.3 KM) WEST-NORTHWEST OF BALTIMORE, 3.8 MI (6.1 KM) WEST-NORTHWEST OF CAVENDISH AND 1.0 MI (1.6KM) EAST OF LUDLOW. TO REACH FROM THE INTERSECTION OF VT ROUTE 100 SOUTH (ANDOVER STREET) AND VT ROUTE 103 EAST (MAIN STREET), GO EAST ALONG MAIN STREET FOR 1.0 MI (1.6 KM) TO THE SITE OF THE MARK ON THE RIGHT, OPPOSITE THE LAWN ON THE NORTHWEST SIDE OF SAM'S STEAKHOUSE.
THE MARK IS SET 3 CM (1 INCH) BELOW GROUND SURFACE IN THE TOP OF A 30 CM (12 INCHES) DIAMETER CONCRETE MONUMENT ON THE NORTH EDGE OF A SMALL FIELD BETWEEN THE TIMBER INN MOTEL AND THE BROOKHAVEN RESORT CONDOMINIUMS.
IT IS 7.1 M (23.3 FT) SOUTHWEST OF AND ABOUT 0.3 M (1.0 FT) LOWER THAN THE CENTERLINE OF MAIN STREET, 21.5 M (70.5 FT) SOUTHEAST OF POLE NO 7/24/1 WITH GUY, 14.9 M (48.9 FT) NORTHWEST OF POLE NO 7/25/2, 14.1 M (46.3 FT) EAST OF A 4 CM (2 INCHES) DIAMETER IRON PIPE WHICH PROJECTS 0.5 M (1.6 FT) ABOVE GROUND SURFACE AND 0.3 M (1.0 FT) NORTHEAST OF A FIBERGLASS WITNESS POST.

HVCTRL #2
BRIGADE
NORTH = 326830.1000
EAST = 1590300.1300
ELEV. = 990.0200

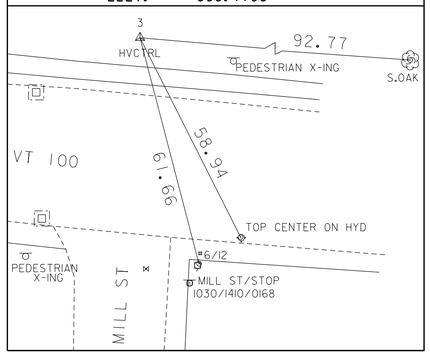
BRIGADE
GENERAL LOCATION, LUDLOW, VT.
TO REACH FROM THE INTERSECTION OF VT ROUTE 100 SOUTH (ANDOVER STREET) AND VT ROUTE 103 EAST (MAIN STREET), GO EAST ALONG MAIN STREET FOR 0.7 MI (1.13 KM) TO THE SITE OF THE MARK ON THE LEFT.

THE MARK IS A CHISELED CROSS CUT IN THE TOP OF THE WEST SIDE OF THE RIM FOR A 60 CM (24 INCH) DIAMETER MANHOLE, IN THE CONCRETE SIDEWALK SOUTHWEST OF BLACK RIVER HIGH SCHOOL.

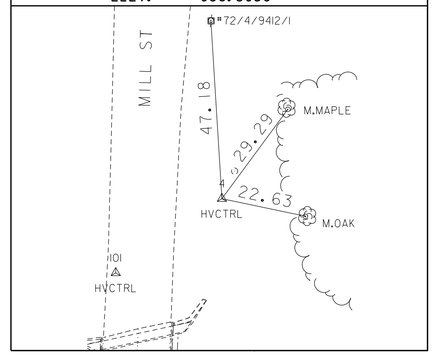
IT IS 5.7 M (18.7 FT) NORTHEAST OF AND ABOUT 0.2 M (0.7 FT) HIGHER THAN THE CENTERLINE OF MAIN STREET, 0.7 M (2.3 FT) NORTHEAST OF THE SOUTHWEST EDGE OF THE SIDEWALK CURB, 9.1 M (29.9 FT) SOUTHEAST OF POLE NO 9S/2300/185 WITH GUY, 15.9 M (52.2 FT) SOUTH OF THE SOUTHEAST CORNER OF A BRICK PLANTER WITH MARBLE BLACK RIVER HIGH SCHOOL SIGN, 36.8 M (120.7 FT) WEST NORTHWEST OF THE CENTERLINE OF THE SCHOOL EXIT DRIVE, 49.6 M (162.7 FT) EAST OF THE CENTERLINE OF THE SCHOOL ENTRANCE DRIVE, AND 30.4 M (99.7 FT) WEST OF A 60 CM (24 INCH) MAPLE.

LOCAL CONTROL

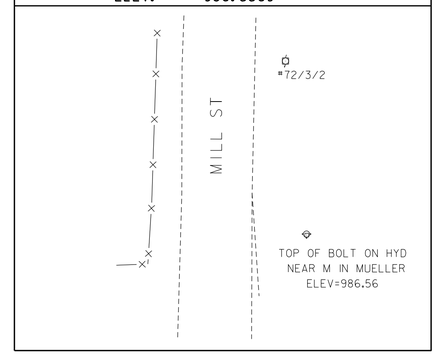
HVCTRL #3
NORTH = 326933.0112
EAST = 1589441.7205
ELEV. = 999.1790



HVCTRL #4
NORTH = 326166.9121
EAST = 1589438.8911
ELEV. = 986.3950



BENCH MARK
NORTH = 326384.2087
EAST = 1589448.8002
ELEV. = 986.5569



NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

LOCAL CONTROL

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83(96)
ADJUSTMENT COMPASS

PROJECT NAME: LUDLOW
PROJECT NUMBER: BO 1443 (52)

FILE NAME: X12J638TI.DGN
PROJECT LEADER: J. FITCH
DESIGNED BY: VTRANS
TIE SHEET

PLOT DATE: 2/19/2021
DRAWN BY: H. MCGOWAN
CHECKED BY: G. HITCHCOCK
SHEET 6 OF 19

SOIL CLASSIFICATION:
URBAN
LAND-COLTON-CROGHAN
COMPLEX,
0-8% SLOPES

SOIL
CLASSIFICATION:
WATER

SOIL CLASSIFICATION:
URBAN
LAND-COLTON-CROGHAN
COMPLEX,
0-8% SLOPES

SOIL CLASSIFICATION:
MARLOW FINE SANDY
LOAM,
35-60% SLOPES, VERY
STONY

VT STATE PLANE GRID

N

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

**KELLY, STEVEN J.
& DIANE M.**

CRES MANAGEMENT LLC

**N/F
REILLY, LYNN D.**

**N/F
COUCH, ALAN
& KATHERINE**

**STATE OF
VERMONT**

**FRANKE,
RICHARD A.**

CRES MANAGEMENT LLC

**DOLAN, WILLIAM C.
& FISH, BRETT E.**

EXISTING DAM/WEIR

BLACK RIVER
FLOW

TH-322
(PLEASANT ST.)

TH-324 (MILL ST.)
TO MAIN ST.

100+46 101+00 102+00 103+00

GENERAL NOTE: THE CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH SECTION 653 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS IT SHALL BE PAID FOR AS PART OF ITEM 653.03 MAINTENANCE OF EPSC PLAN.

EXISTING BRIDGE INFO
78' SINGLE SPAN
STEEL PONY TRUSS
BUILT 1929, CLOSED 2007

EXISTING CONDITIONS

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

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12J638bdr_ero.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: S.CARPENTER
EXISTING CONDITIONS

PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------
SHEET 7 OF 19

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 4+53.2 TO STA. 4+66.0 RT

ANCHOR FOR STEEL BEAM RAIL
STA. 4+53.2 RT

GUARDRAIL APPROACH SECTION TO CONCRETE BRIDGE RAILING, TL-3
STA. 3+86.3 TO STA. 3+96.1 RT
STA. 4+34.6 TO STA. 4+53.2 RT

AGGREGATE SURFACE COURSE
STA. 4+34.6 TO STA. 4+91.0 RT
STA. 101+39.3 TO STA. 102+03.0 LT
STA. 101+41.8 TO STA. 102+03.0 RT

TIMBER PLANK RAILING
STA. 101+38.9 TO STA. 101+65.2 LT
STA. 101+40.4 TO STA. 101+67.7 RT

BOLLARD
STA. 100+61.8 CL (REMOVABLE)
STA. 101+69.0 LT
STA. 101+69.0 CL (REMOVABLE)
STA. 101+69.0 RT

DETECTABLE WARNING SURFACE
STA. 100+61.8
STA. 102+03.0

DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC
STA. 3+00.0 TO STA. 5+00.0 CL (DOUBLE CENTER LINE)

DURABLE 6 INCH WHITE LINE, THERMOPLASTIC
STA. 3+00.0 TO STA. 5+00.0 RT (SOLID EDGE LINE)

VT STATE PLANE GRID

DEAD END
WI4-1(TO BE PLACED AT MEADOW STREET)

TH-324
(MILL ST.)
TO MAIN ST.

TH-5
(PLEASANT ST.)
TO LUDLOW

CURVE (1)
DELTA = 29° 39' 59"
D = 10° 36' 37"
R = 540.00'
T = 143.01'
L = 279.60'
E = 18.62'

PI
STA 5+02.20

GI-D

GUARDRAIL APPROACH SECTION TO BRIDGE CONCRETE BRIDGE RAILING, TL-3 WITH SYMMETRIC THRIE BEAM TO W-BEAM TRANSITION SECTION

SAWCUT EXISTING PAVEMENT

FULL DEPTH PAVEMENT BOX

STA 100+46.48 =
STA 04+07.02

BEGIN PROJECT
STA 100+46.48

BEGIN BRIDGE
STA 100+60.68

SAWCUT EXISTING PAVEMENT

PROPOSED END POST

PROPOSED MILL & PAVE

GUARDRAIL DETAILS TO BE DETERMINED FOR FINAL SUBMISSION

PC
STA 3+59.20

PROPOSED PAVEMENT MARKINGS

PI
STA 100+46.48

TH-5
(PLEASANT ST.)
TO SMITHVILLE

MOMENT SLAB

SCOUR REPAIR

BLACK RIVER
FLOW

TEMPORARY WATER CONTROL

STA 101+01.29 =
CHAN 51+95.07
Δ = 90° RT

BRIDGE 57

END BRIDGE
STA 101+39.32

CLEARING FOR CRANE OPERATION
(APPROXIMATE 50' RADIUS)

BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY

END PROJECT
STA 102+03

REMOVE EXISTING BRIDGE STRUCTURE

PROPOSED PILE (TYP)

ROAD CLOSED
RII-2

SAWCUT EXISTING PAVEMENT

TEMPORARY CONSTRUCTION LIMITS

PERMANENT CONSTRUCTION LIMITS

POE
STA 103+00.00

PI
STA 103+00.00

POB
STA 2+50.00

EXISTING TOWN R.O.W.

BENCHMARK
TOP OF BOLT
NEAR M IN MUELLER
ELEV. = 986.56'

LAYOUT

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

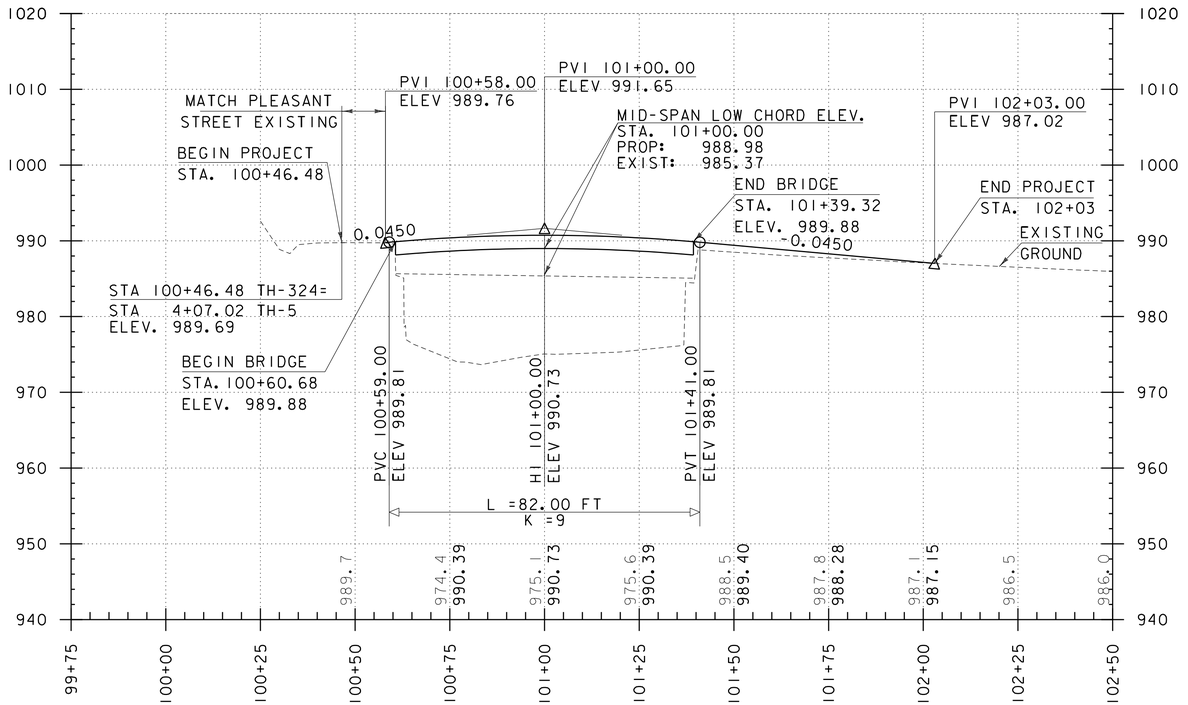
LEGEND

- • = BOLLARD
- ⊗ = REMOVABLE BOLLARD

EXISTING BRIDGE INFO
78' SINGLE SPAN
STEEL PONY TRUSS
BUILT 1929, CLOSED 2007

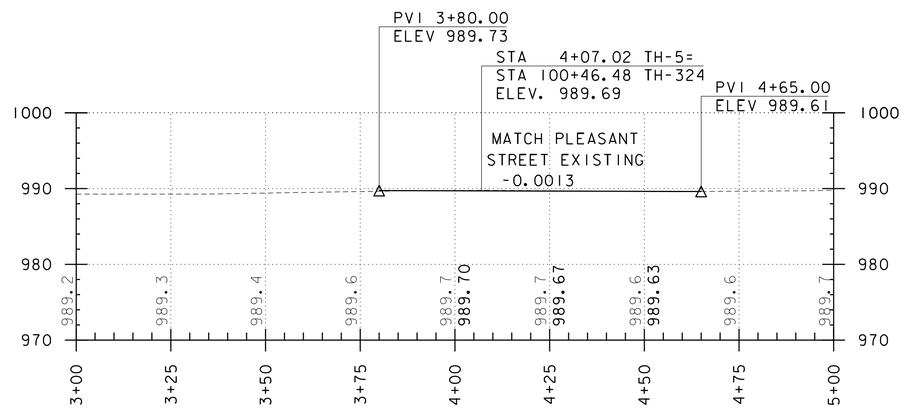
GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12J638border.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
LAYOUT SHEET	SHEET 8 OF 19



TOWN HIGHWAY 324 PROFILE

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



TOWN HIGHWAY 5 PROFILE

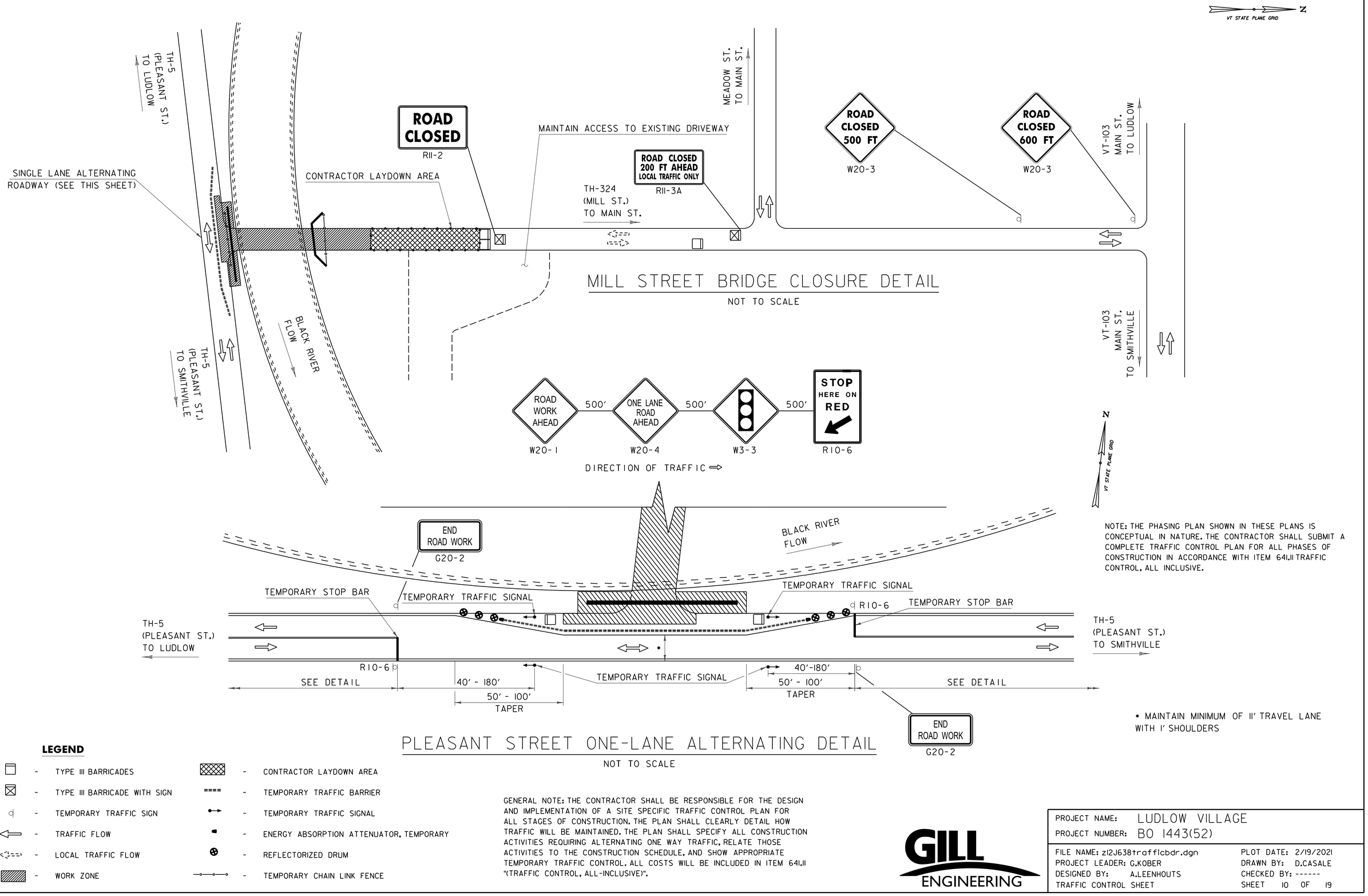
SCALE: HORIZONTAL 1"=20'-0"
VERTICAL 1"=10'-0"

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12j638profile.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
PROFILE SHEET

PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------
SHEET 9 OF 19



NOTE: THE PHASING PLAN SHOWN IN THESE PLANS IS CONCEPTUAL IN NATURE. THE CONTRACTOR SHALL SUBMIT A COMPLETE TRAFFIC CONTROL PLAN FOR ALL PHASES OF CONSTRUCTION IN ACCORDANCE WITH ITEM 641.11 TRAFFIC CONTROL, ALL INCLUSIVE.

• MAINTAIN MINIMUM OF 11' TRAVEL LANE WITH 1' SHOULDERS

PLEASANT STREET ONE-LANE ALTERNATING DETAIL

NOT TO SCALE

LEGEND

- TYPE III BARRICADES
- TYPE III BARRICADE WITH SIGN
- TEMPORARY TRAFFIC SIGN
- TRAFFIC FLOW
- LOCAL TRAFFIC FLOW
- WORK ZONE
- CONTRACTOR LAYDOWN AREA
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY TRAFFIC SIGNAL
- ENERGY ABSORPTION ATTENUATOR, TEMPORARY
- REFLECTORIZED DRUM
- TEMPORARY CHAIN LINK FENCE

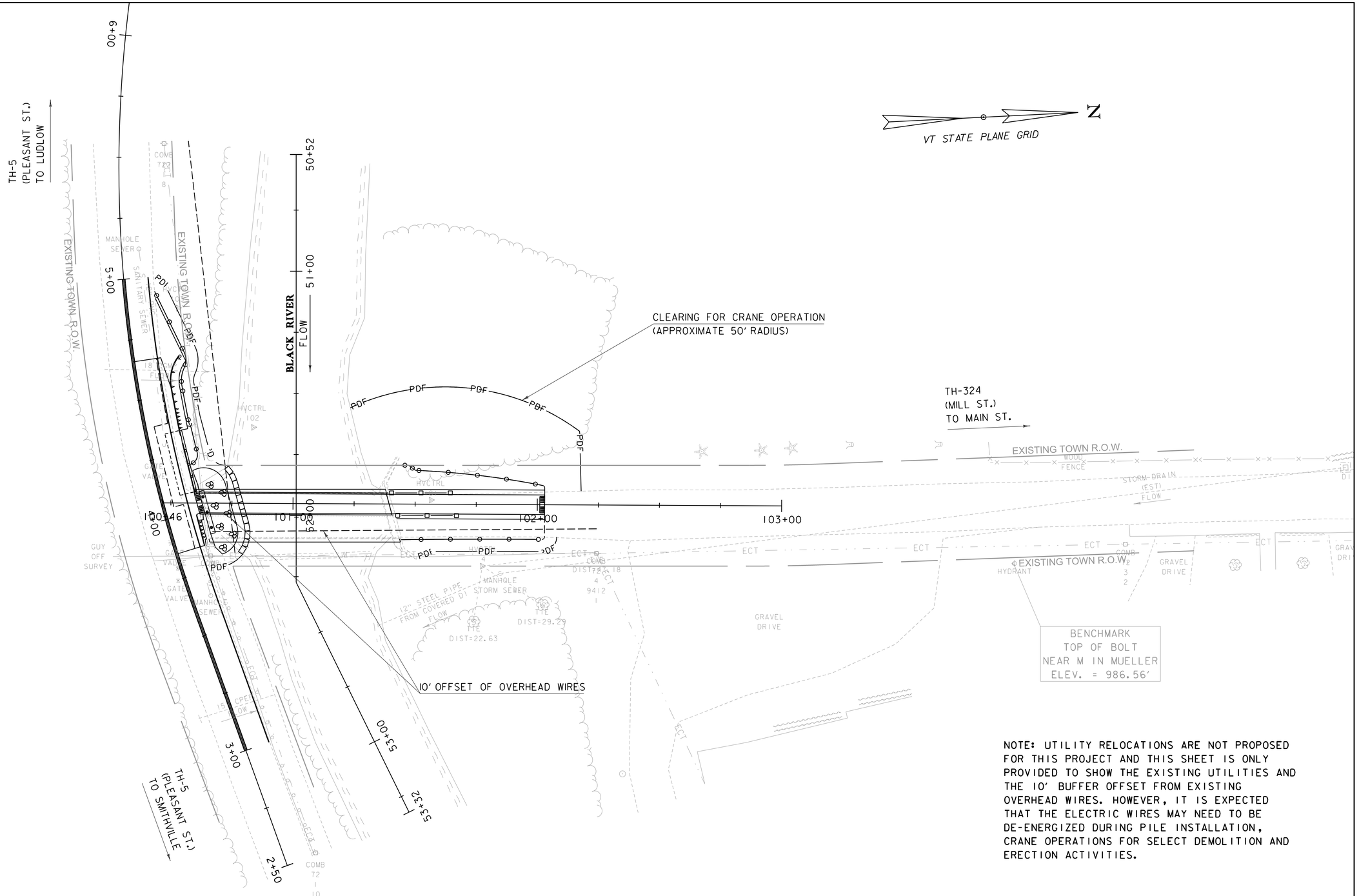
GENERAL NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION. THE PLAN SHALL CLEARLY DETAIL HOW TRAFFIC WILL BE MAINTAINED. THE PLAN SHALL SPECIFY ALL CONSTRUCTION ACTIVITIES REQUIRING ALTERNATING ONE WAY TRAFFIC, RELATE THOSE ACTIVITIES TO THE CONSTRUCTION SCHEDULE, AND SHOW APPROPRIATE TEMPORARY TRAFFIC CONTROL. ALL COSTS WILL BE INCLUDED IN ITEM 641.11 "(TRAFFIC CONTROL, ALL-INCLUSIVE)".

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12J638trafficbdr.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
TRAFFIC CONTROL SHEET

PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------



UTILITY LAYOUT

SCALE 1" = 20'-0"

20 0 20

NOTE: UTILITY RELOCATIONS ARE NOT PROPOSED FOR THIS PROJECT AND THIS SHEET IS ONLY PROVIDED TO SHOW THE EXISTING UTILITIES AND THE 10' BUFFER OFFSET FROM EXISTING OVERHEAD WIRES. HOWEVER, IT IS EXPECTED THAT THE ELECTRIC WIRES MAY NEED TO BE DE-ENERGIZED DURING PILE INSTALLATION, CRANE OPERATIONS FOR SELECT DEMOLITION AND ERECTION ACTIVITIES.

EXISTING BRIDGE INFO
78' SINGLE SPAN
STEEL PONY TRUSS
BUILT 1929, CLOSED 2007

GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12J638utilitybdr.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
UTILITY SHEET	SHEET 11 OF 19

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

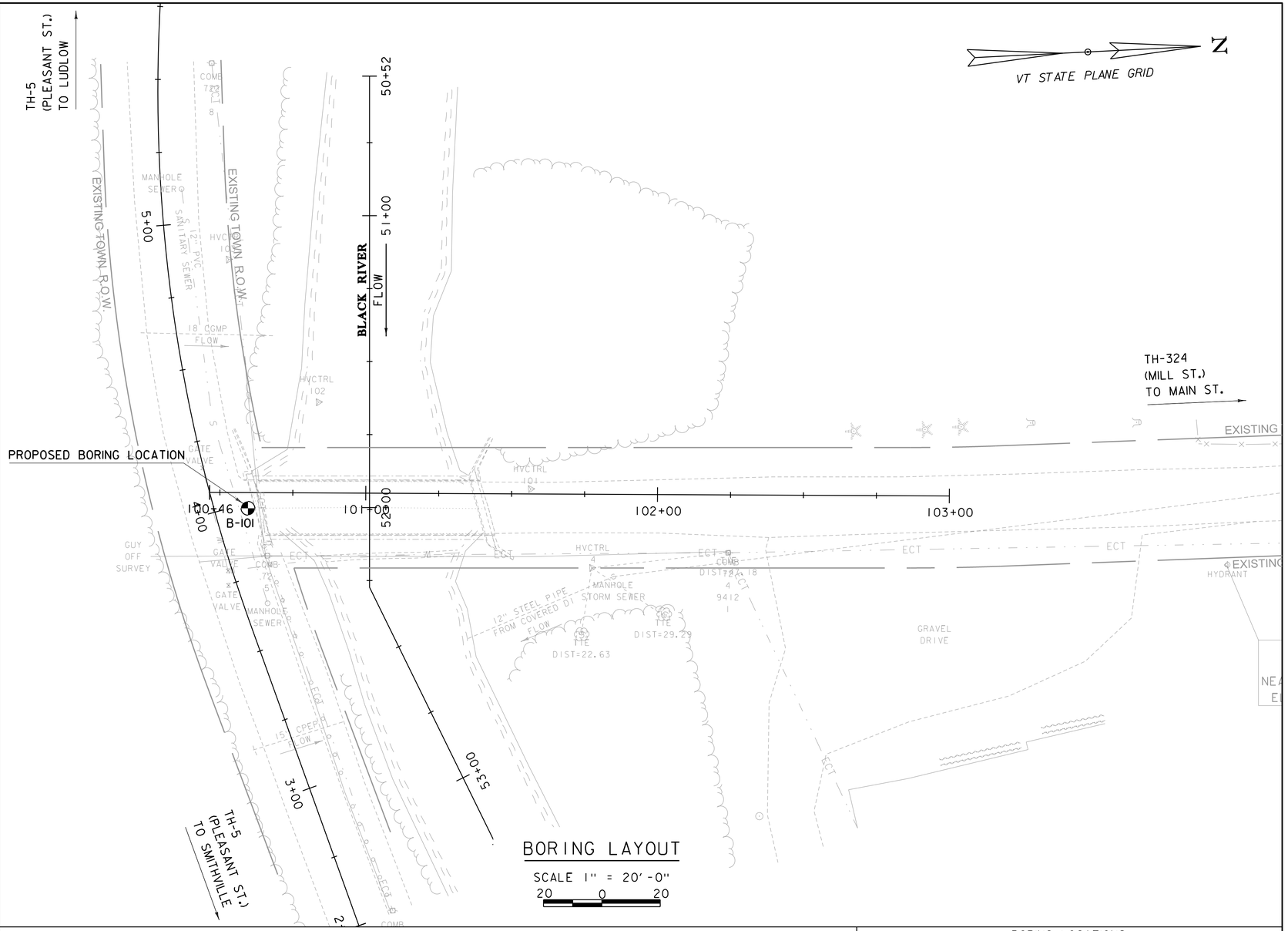
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

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 1⅜" 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 1⅛"
BX	Core Size 1⅝"
NX	Core Size 2 ⅛"
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		



BORING LAYOUT

SCALE 1" = 20'-0"

20 0 20

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.

GENERAL NOTES

1. The subsurface explorations shown herein were made between -------- and ---------- 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.

GILL ENGINEERING

BORING LOCATIONS

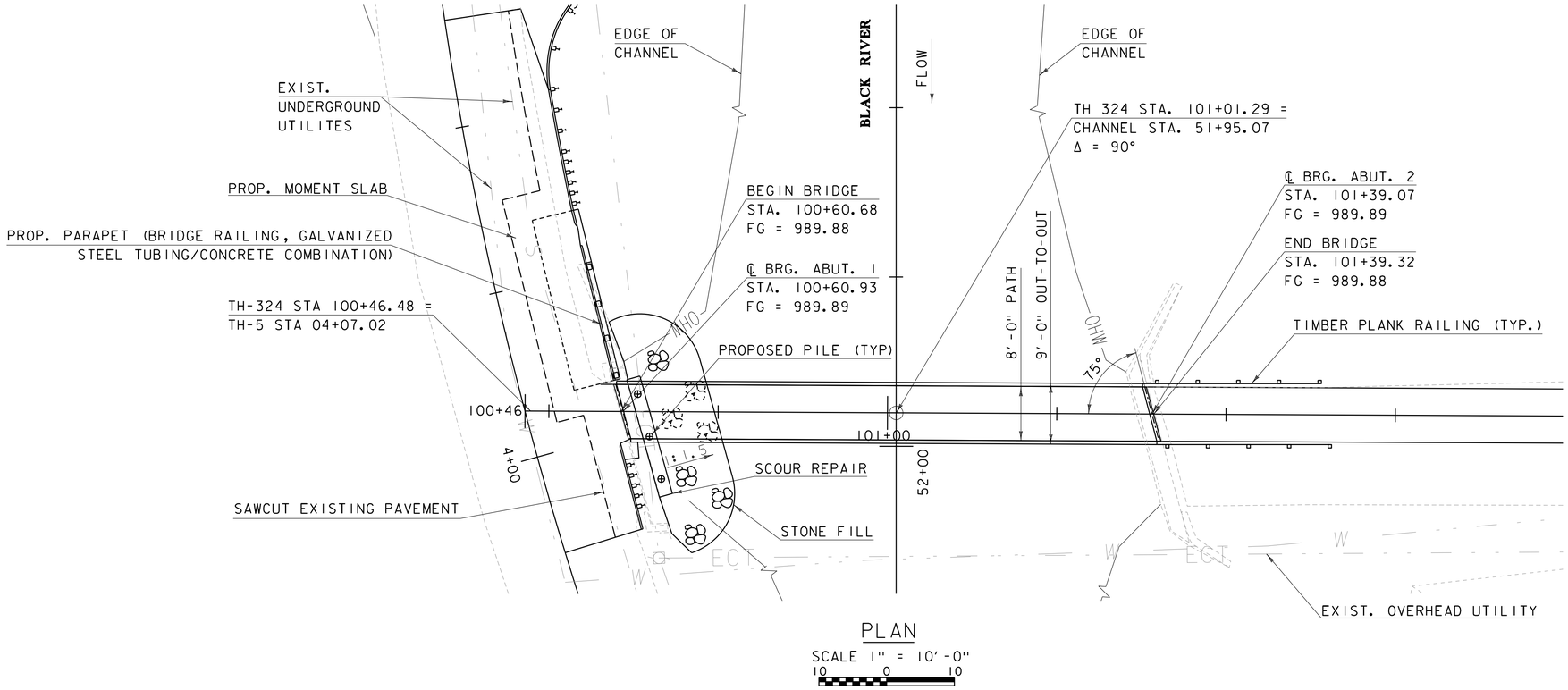
BORING	NORTHING	EASTING	STATION	OFFSET	BEDROCK ELEVATION
B-101	326050.23	1589412.60	100+59.64	5.35	XXX.X

PROJECT NAME: LUDLOW VILLAGE

PROJECT NUMBER: BO 1443(52)

FILE NAME: z12J638boring_bdr.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
BORING LAYOUT SHEET

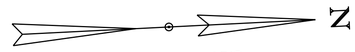
PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------
SHEET 12 OF 19

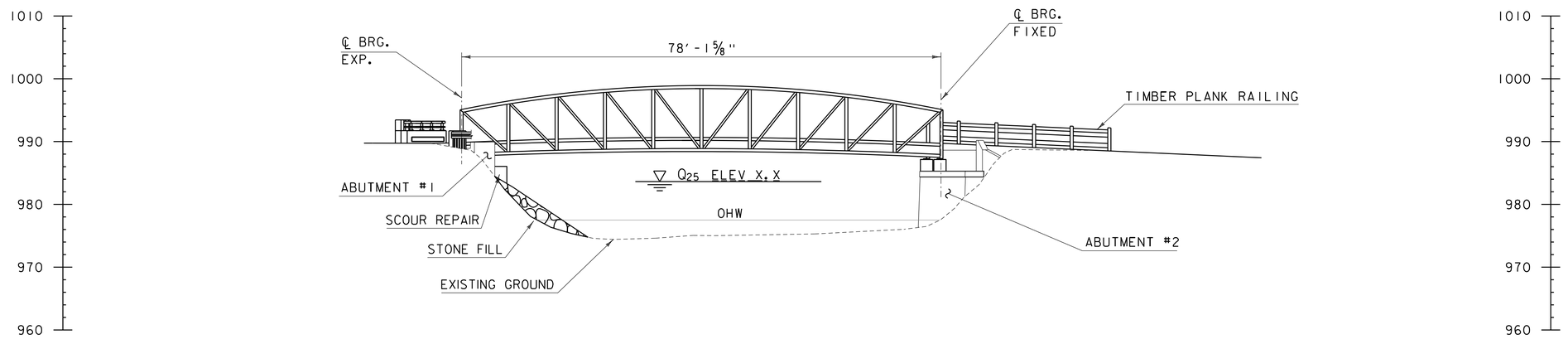


PLAN

SCALE 1" = 10'-0"

10 0 10





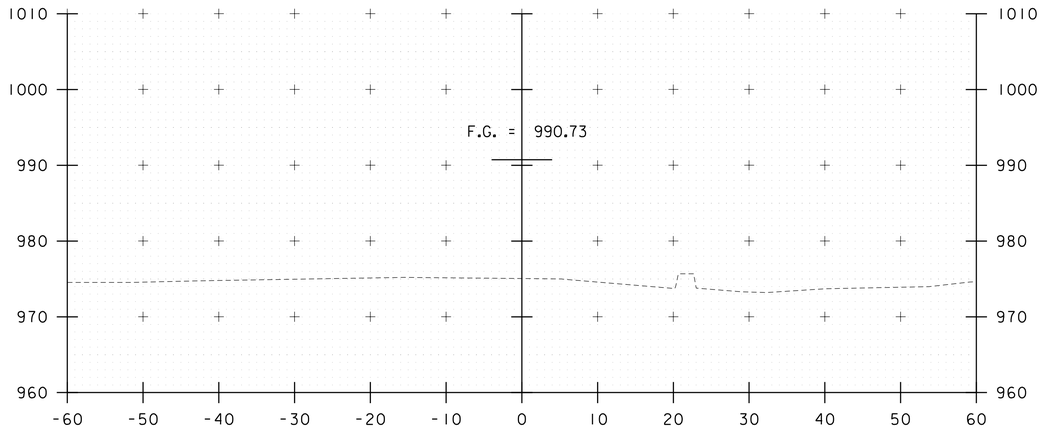
ELEVATION

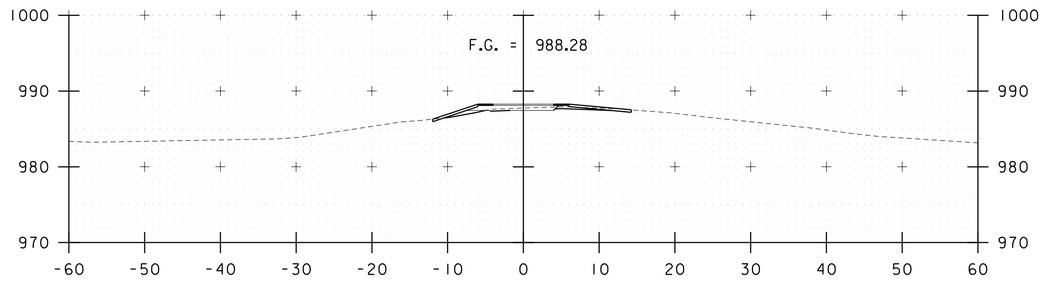
SCALE 1" = 10'-0"

10 0 10

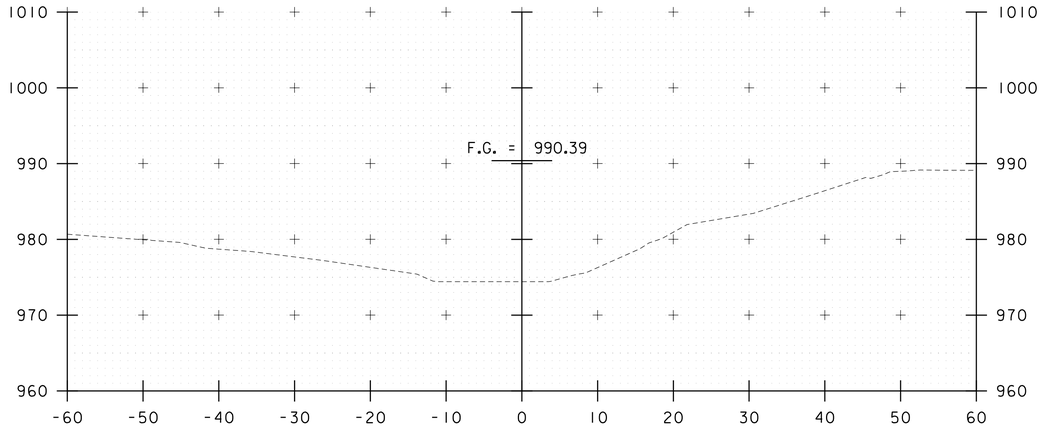
GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12j638pe.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
PLAN AND ELEVATION	SHEET 13 OF 19



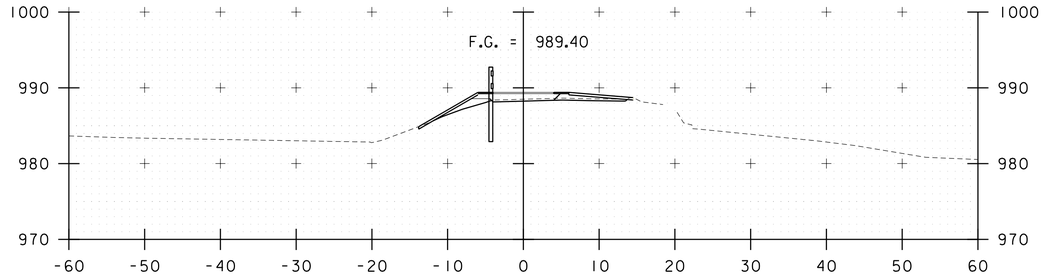


101+00



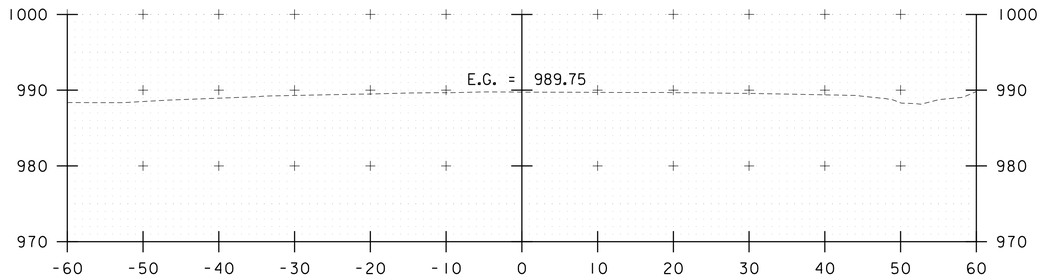
STA. 100+60.68
BEGIN BRIDGE

101+75



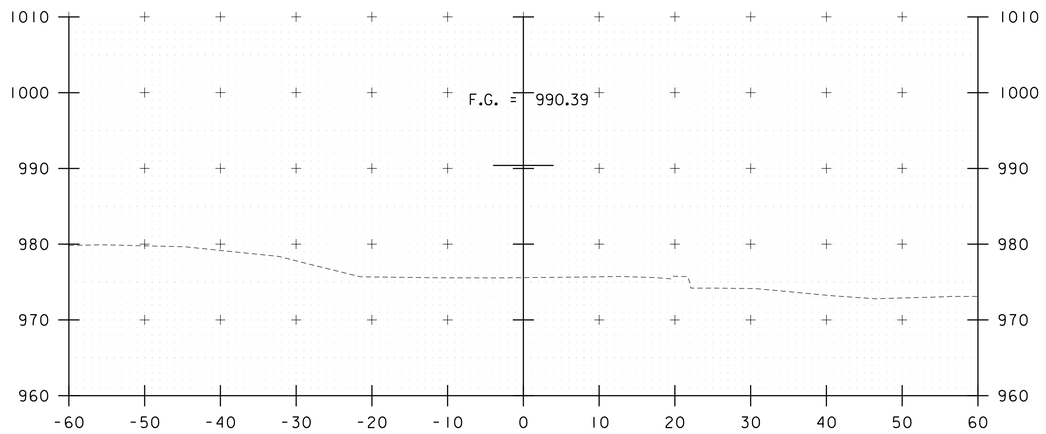
STA. 101+39.32
END BRIDGE

100+75



STA. 100+46.48
BEGIN PROJECT

101+50



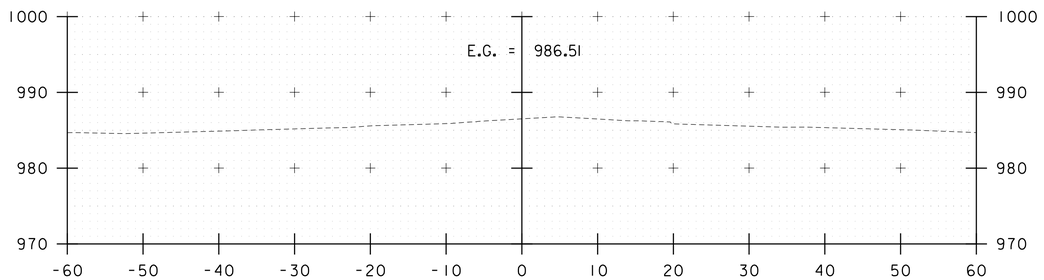
100+50

101+25

STA. 100+50 TO STA. 101+75

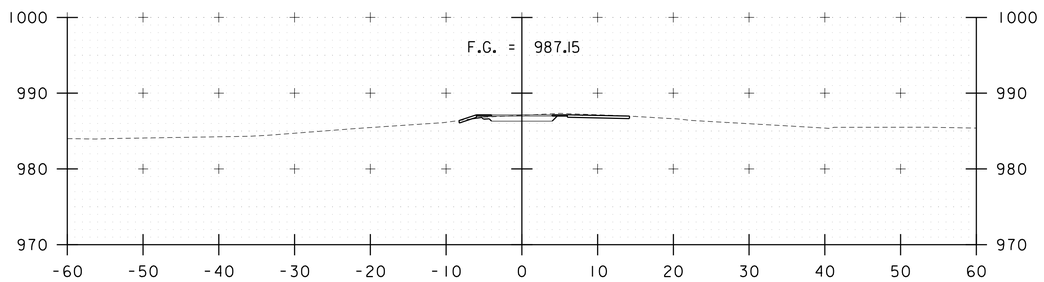
GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12j638xs.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
ROADWAY CROSS SECTIONS SHEET 1	SHEET 14 OF 19



STA. 102+03.00
END PROJECT

102+25

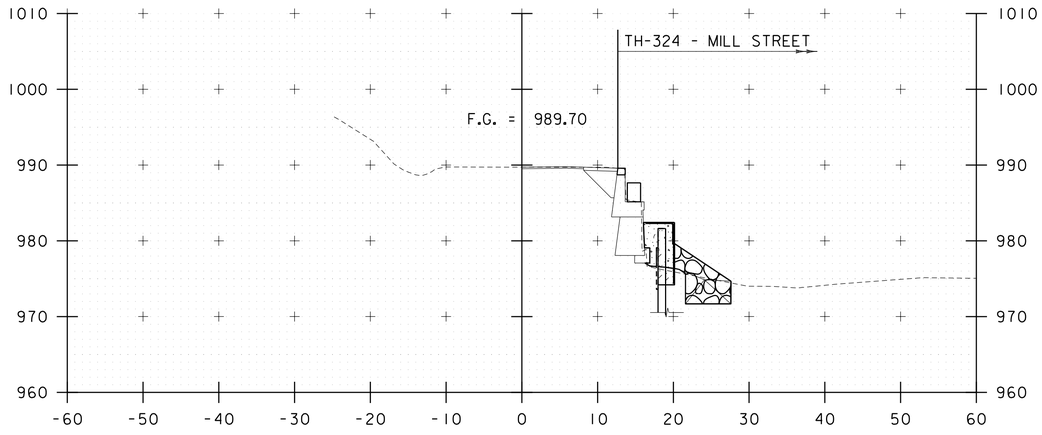


102+00

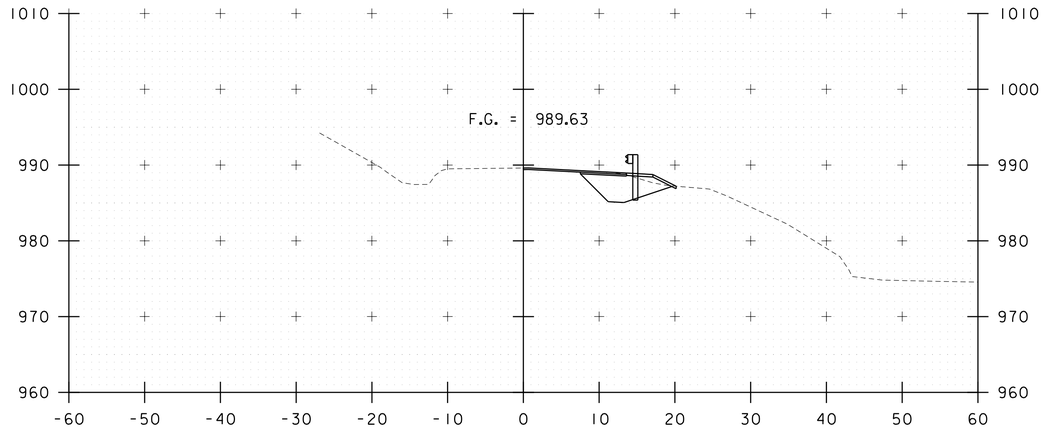
STA. 102+00 TO STA. 102+25

GILL ENGINEERING

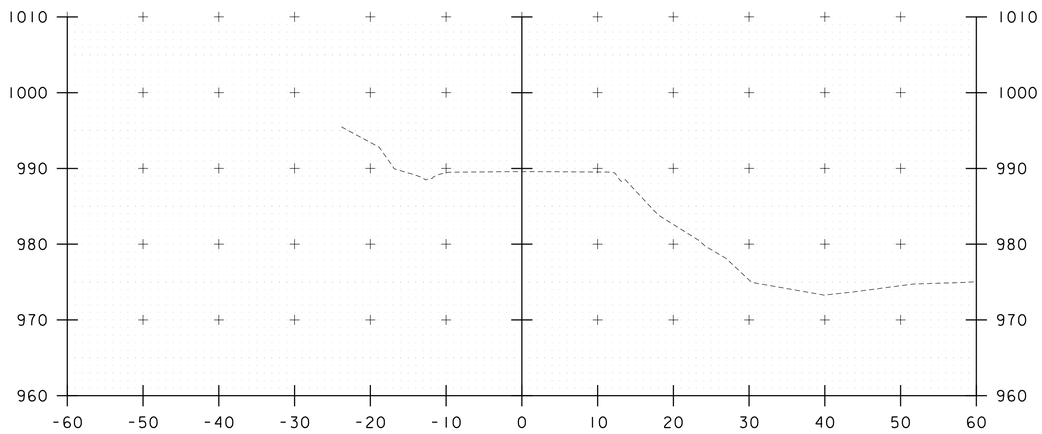
PROJECT NAME: LUDLOW VILLAGE	
PROJECT NUMBER: BO 1443(52)	
FILE NAME: z12j638xs.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
ROADWAY CROSS SECTIONS SHEET 2	SHEET 15 OF 19



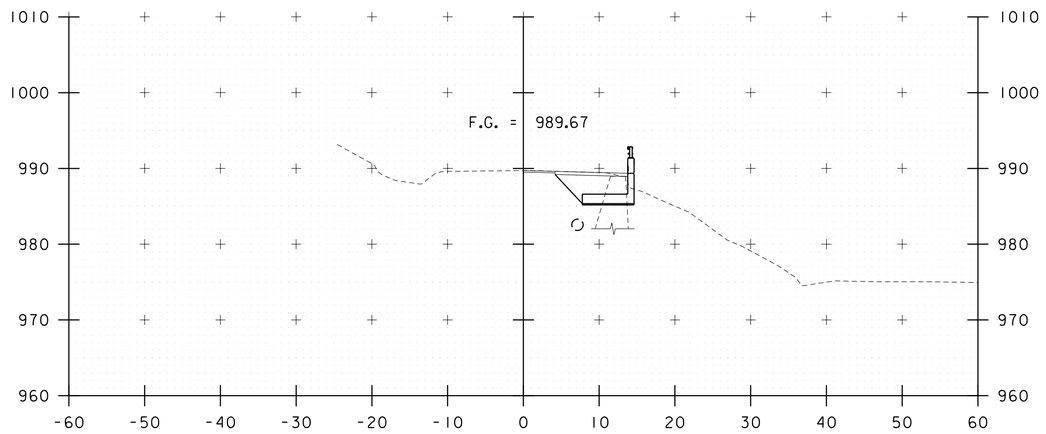
3+75



4+00



4+25

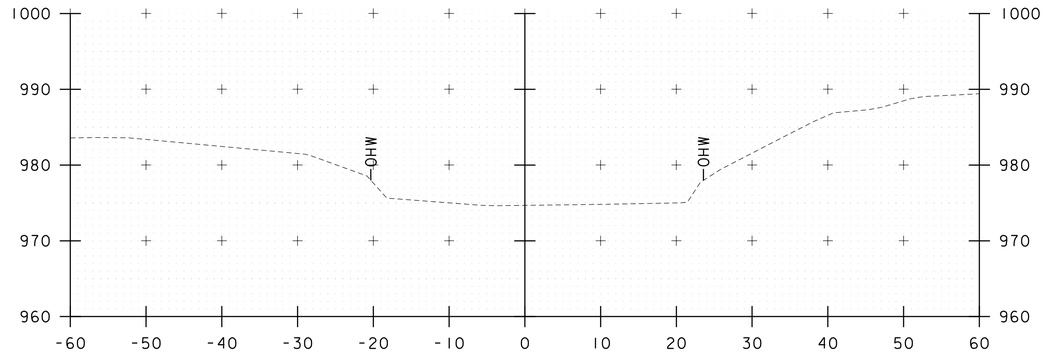


4+50

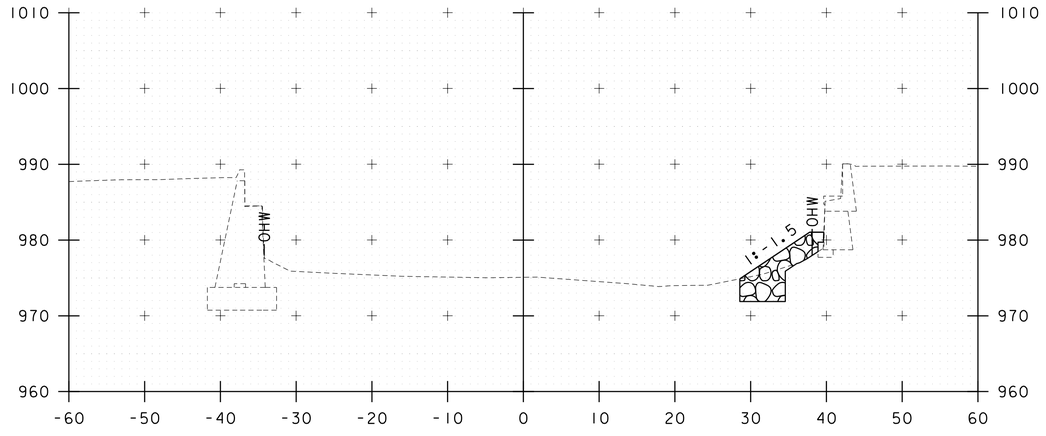
STA. 3+75 TO STA. 4+50

GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12j638xs.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
ROADWAY CROSS SECTIONS SHEET 3	SHEET 16 OF 19

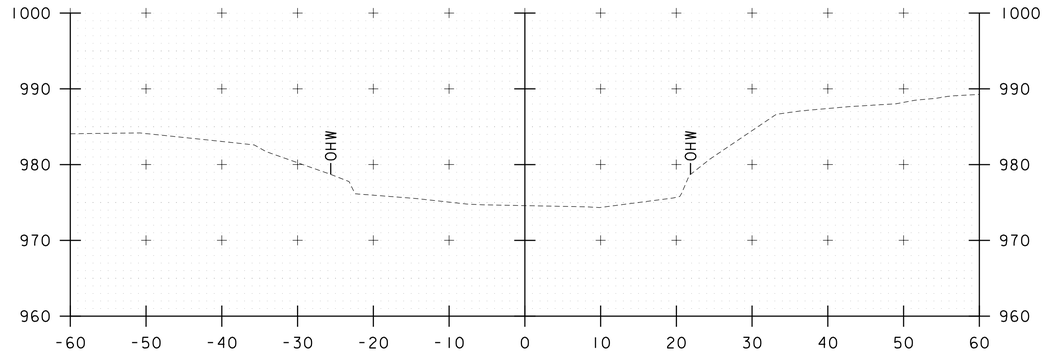


51+50

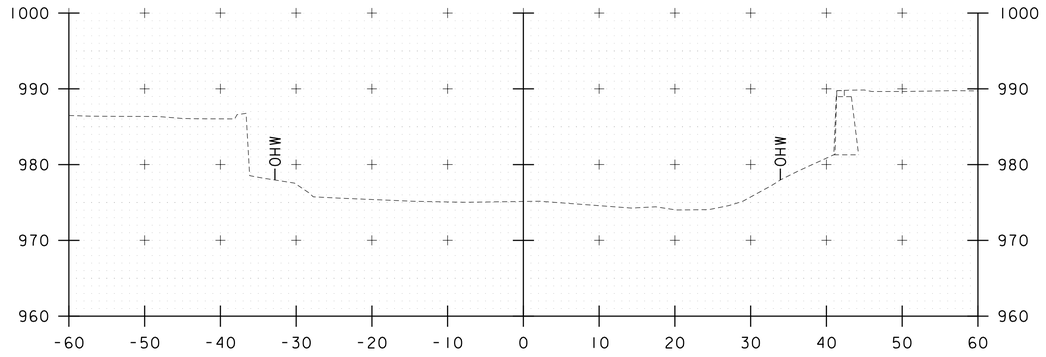


BEGIN CHANNEL EXCAVATION
STA. 51+82.46 RT

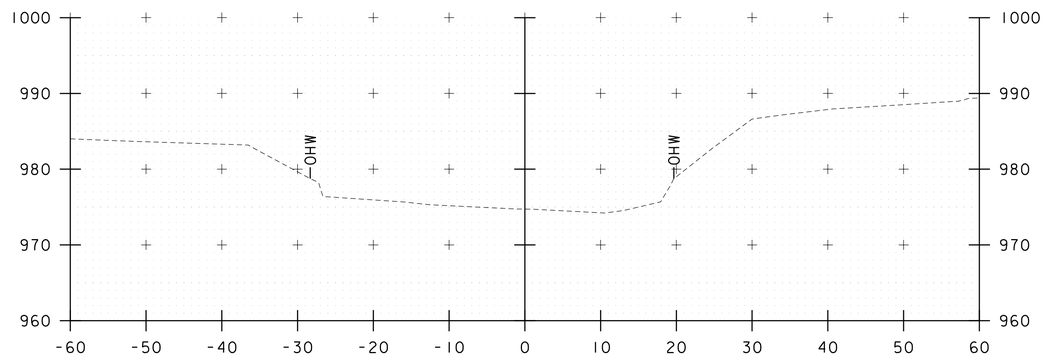
51+90



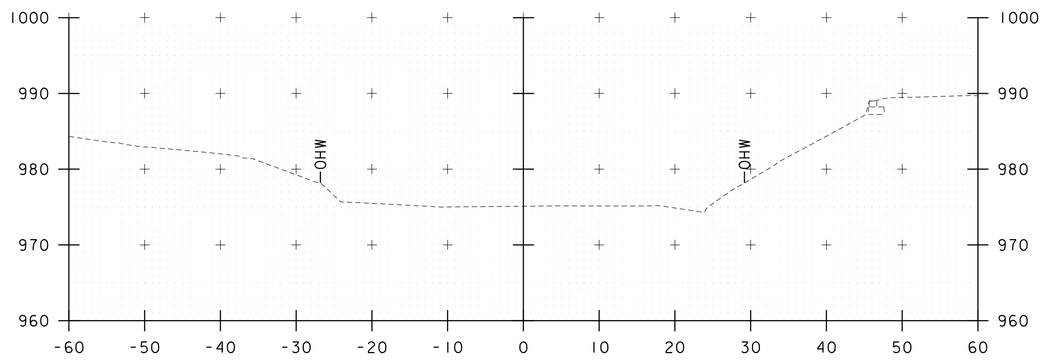
51+25



51+85



51+00

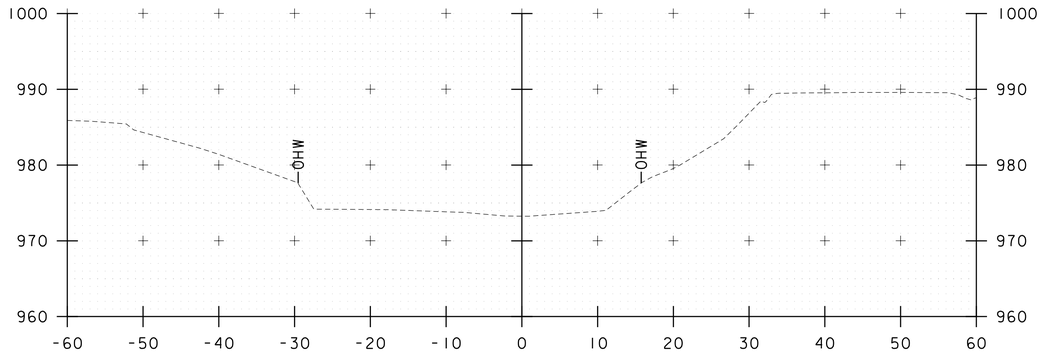


51+75

STA. 51+00 TO STA. 51+90

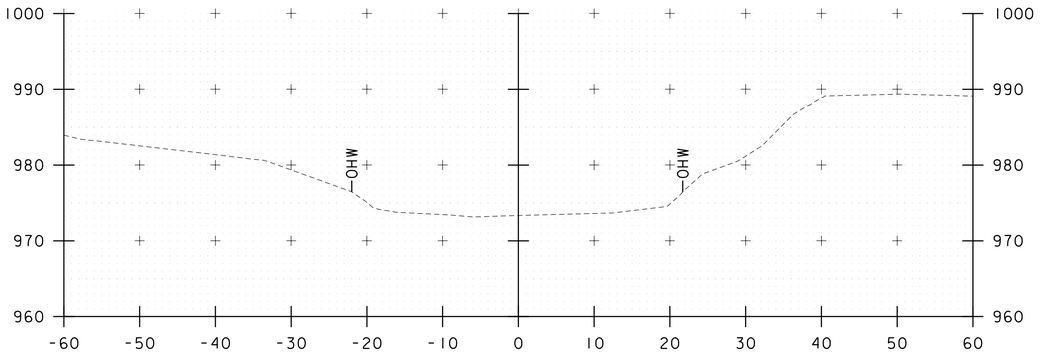
GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12j638xs.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
CHANNEL CROSS SECTIONS SHEET 1	SHEET 17 OF 19

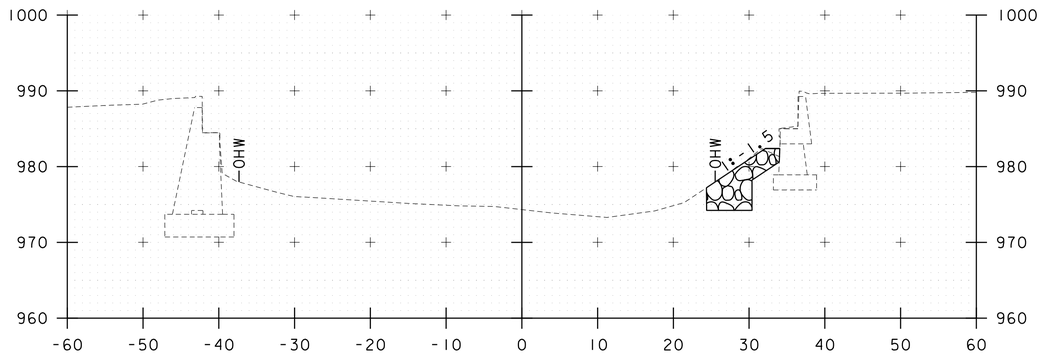


END CHANNEL EXCAVATION
STA. 52+12.38 RT

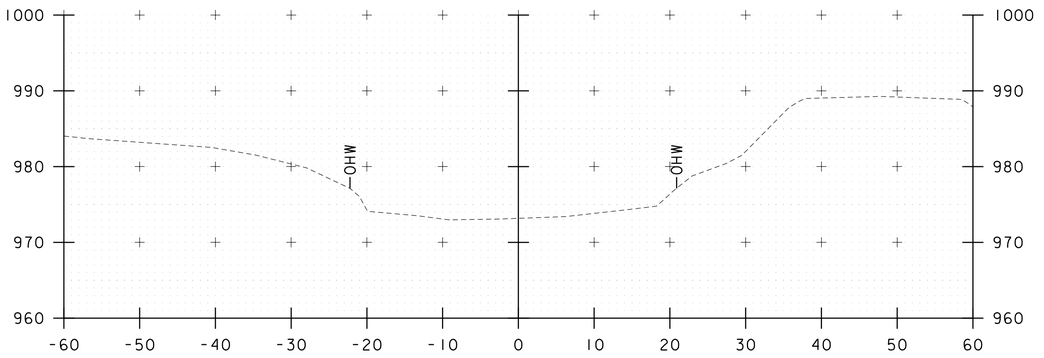
52+25



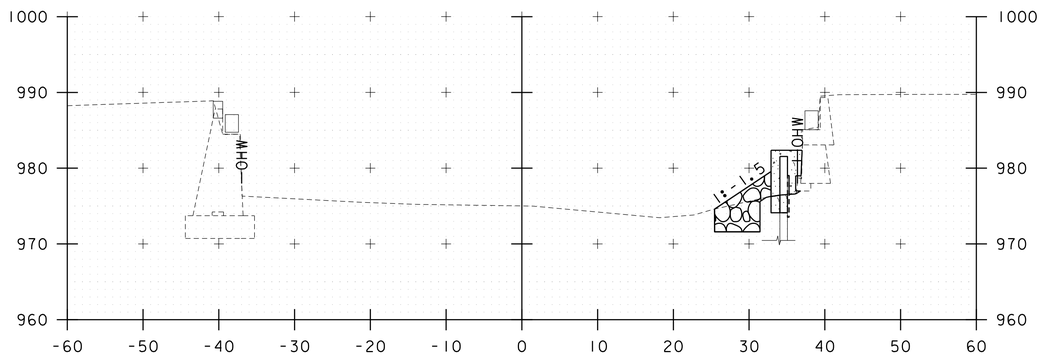
53+00



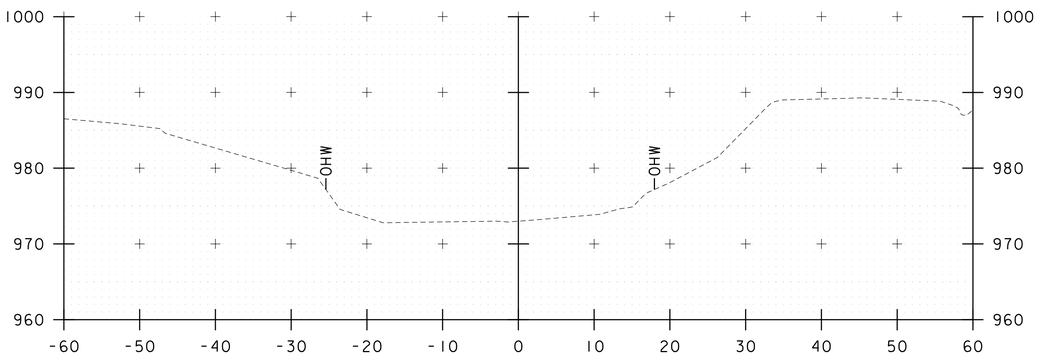
52+10



52+75



52+00

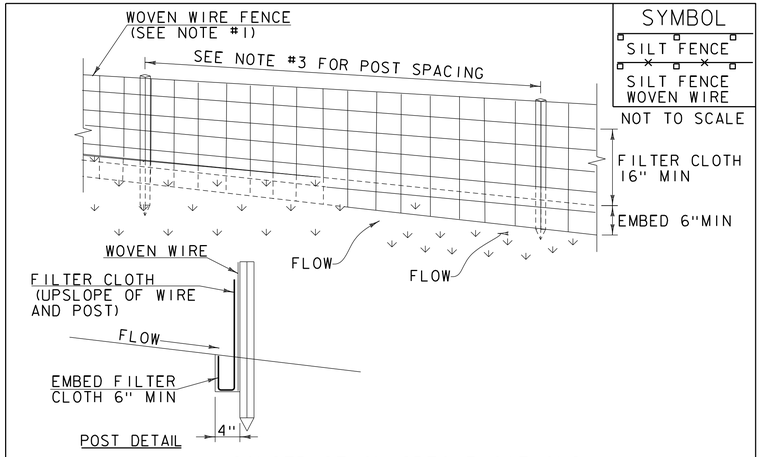


52+50

STA. 52+00 TO STA. 53+00

GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12j638xs.dgn	PLOT DATE: 2/19/2021
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
CHANNEL CROSS SECTIONS SHEET 2	SHEET 18 OF 19



SYMBOL
SILT FENCE
SILT FENCE WOVEN WIRE

NOT TO SCALE

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

EPSC LAYOUT PLAN SYMBOLOGY LEGEND

PROJECT BOUNDARY FENCE
- PDF——PDF PROJECT DEMARCATION FENCE
- BF—×—×—BF BARRIER FENCE

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

ENVIRONMENTAL RESOURCES
- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- SOIL TYPE BOUNDARY
- THREATENED & ENDANGERED SPECIES
- HAZ—HAZ HAZARDOUS WASTE AREA
- AGRICULTURAL LAND
- FISH & WILDLIFE HABITAT
- FLOOD PLAIN
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC
- ARCHEOLOGICAL BOUNDARY
- HISTORIC DISTRICT BOUNDARY
- HISTORIC AREA
- Ⓗ HISTORIC STRUCTURE

UTILITY SYMBOLOGY
- AER E&T AREAL ELECTRIC & TELEPHONE
- E AREAL ELECTRIC
- UE UNDERGROUND ELECTRIC
- UT UNDERGROUND TELEPHONE
- UC UNDER GROUND TV
- G GAS LINE
- W WATER LINE

CONSTRUCTION FEATURES
- TOE OF SLOPE CUT OR FILL
- STONE FILL, TYPE III
- STONE FILL, TYPE II
- STONE FILL, TYPE I

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12j638erodetails.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: S.CARPENTER
EPSC DETAILS

PLOT DATE: 2/19/2021
DRAWN BY: D.CASALE
CHECKED BY: ------
SHEET 19 OF 19