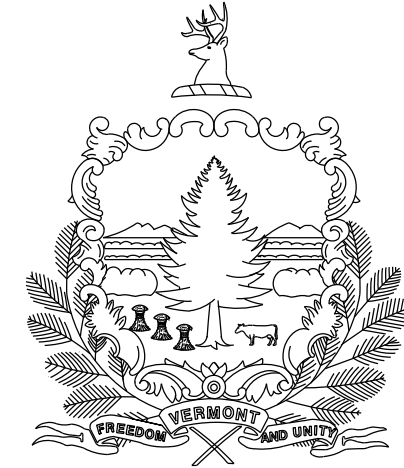
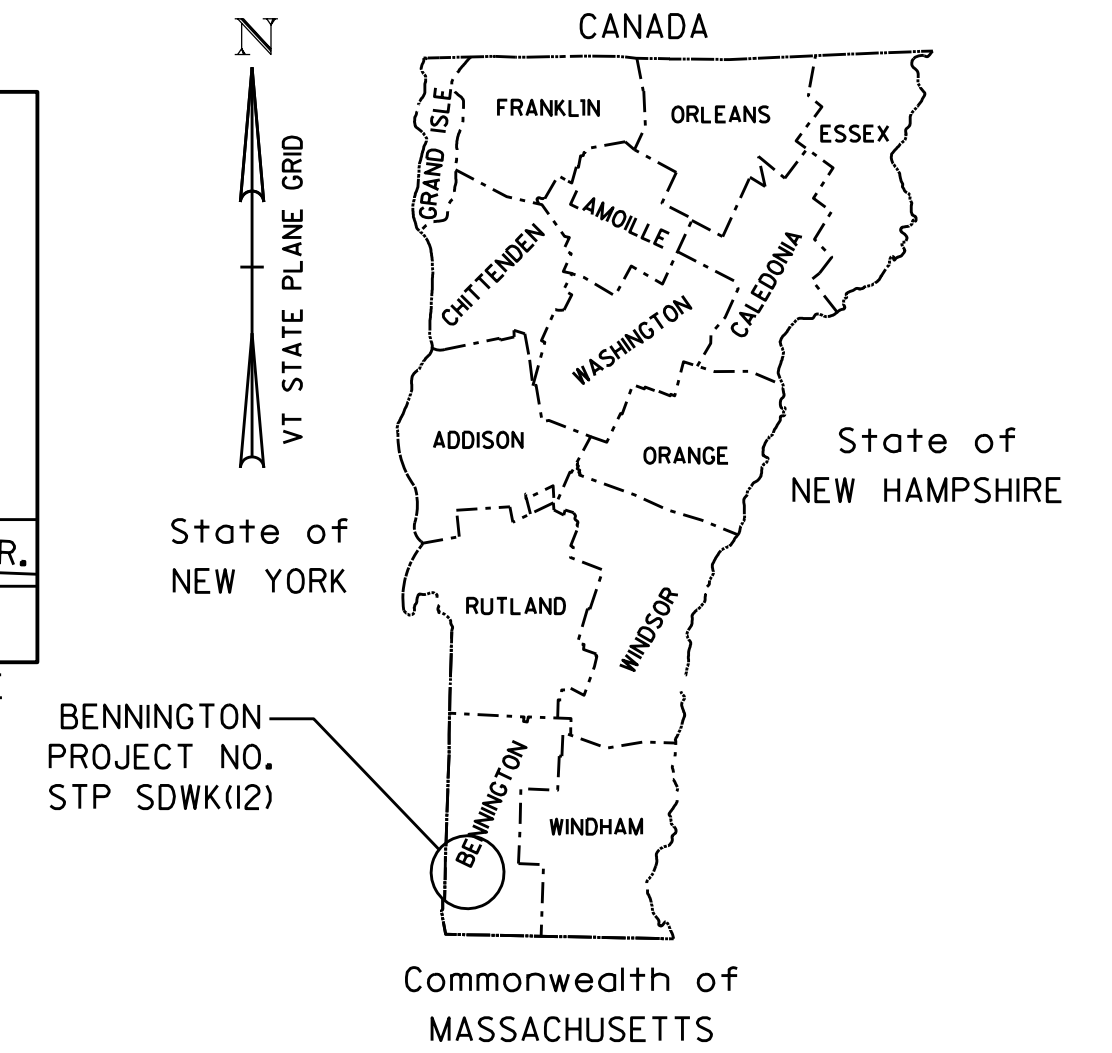
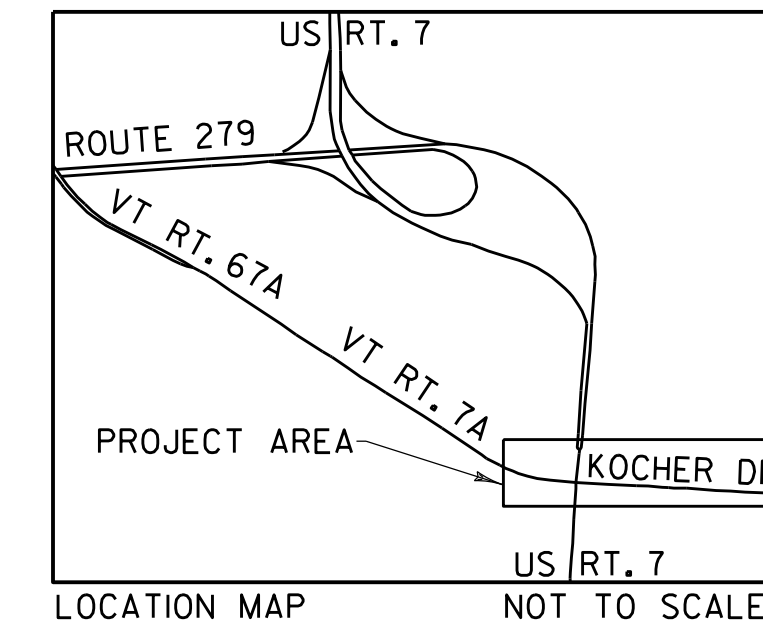


STATE OF VERMONT AGENCY OF TRANSPORTATION



BENNINGTON - STP SDWK(12) & BP18(14) TOWN OF BENNINGTON COUNTY OF BENNINGTON



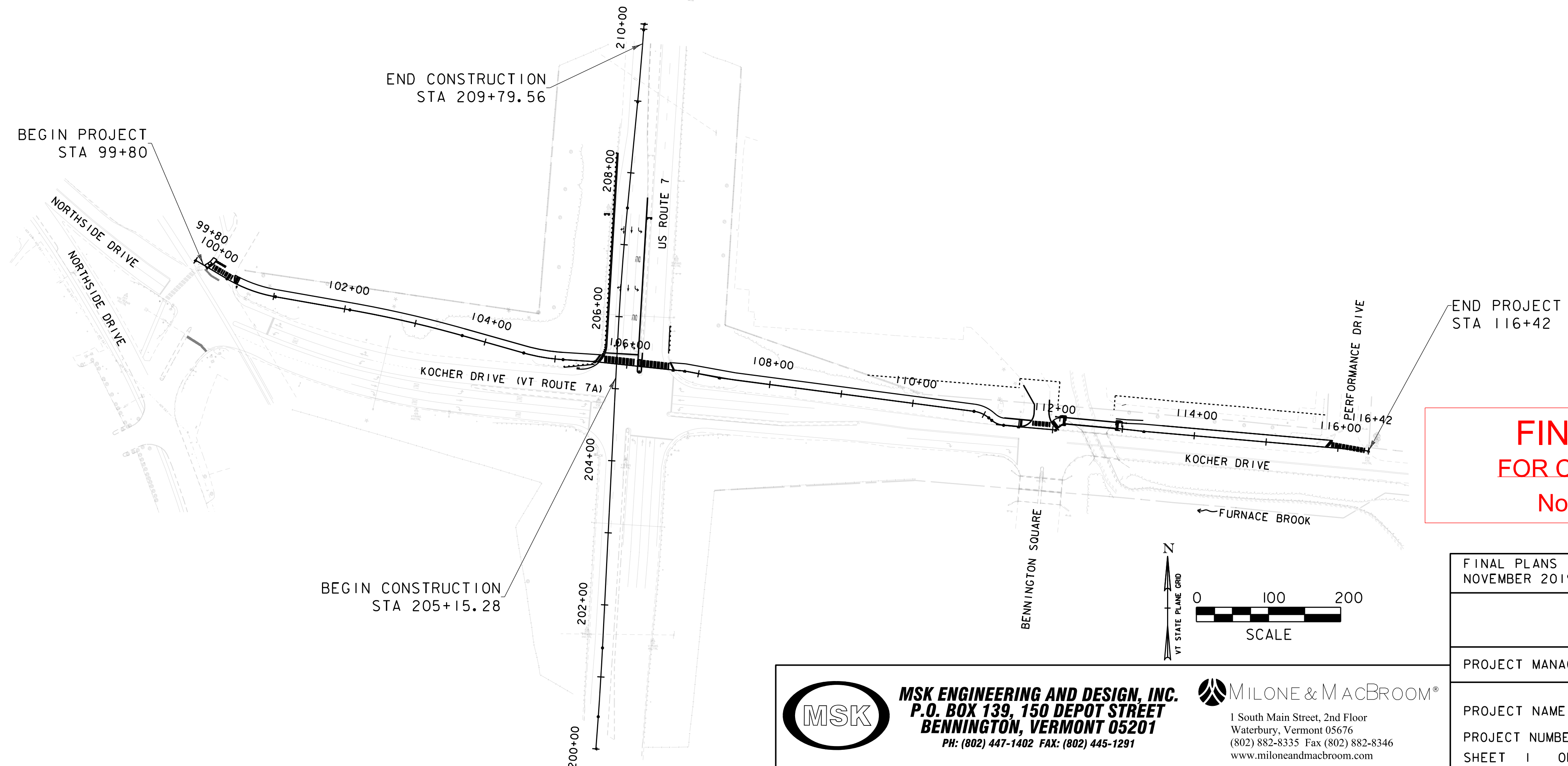
PROJECT LOCATION

BEGINNING ON KOCHER DRIVE AT THE INTERSECTION WITH NORTHSIDE DRIVE AND PROCEEDING EASTERLY ALONG KOCHER DRIVE FOR 0.3 MILES TO THE INTERSECTION WITH PERFORMANCE DRIVE.

PROJECT LENGTH: APPROXIMATELY 1600 FEET

PROJECT DESCRIPTION

CONSTRUCTION OF A SHARED USE PATH ALONG KOCHER DRIVE INCLUDING A PREFABRICATED PEDESTRIAN BRIDGE, SIGNAL, DRAINAGE & ROADWAY IMPROVEMENTS.



**FINAL PLANS
FOR CONSTRUCTION
November 2019**

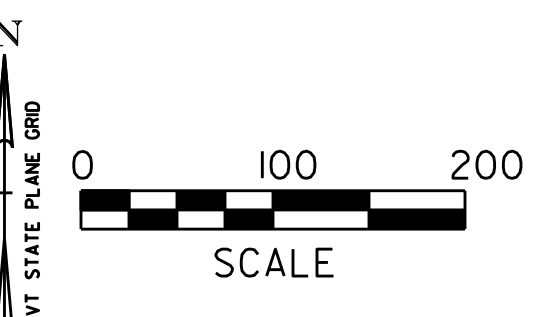
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE 2018 VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED APRIL 13, 2018, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2
SURVEYED BY : MSK ENGINEERING, INC. SURVEYED DATE : NOVEMBER 2014
DATUM VERTICAL: NAVD 1988 HORIZONTAL: NAD 1983

FINAL PLANS NOVEMBER 2019
PROJECT MANAGER : JASON DOLMETSCH
PROJECT NAME : KOCHER DRIVE PROJECT NUMBER : STP SDWK (12) & STP BP18 (14) SHEET 1 OF 29 SHEETS

MSK ENGINEERING AND DESIGN, INC.
P.O. BOX 139, 150 DEPOT STREET
BENNINGTON, VERMONT 05201
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INDEX OF SHEETS		TOTAL NUMBER OF SHEETS
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VTRANS STANDARDS		
SHEET #	TITLE	DATE
B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
C-3A	SIDEWALK RAMPS	03-10-2008
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03-10-2008
C-10	CURBING	02-11-2008
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON GRATE TYPE B&C, CONCRETE END SECTIONS, ETC.	06-01-1994
D-20	HIGHWAY CROSSING SLEEVES FOR UNDERGROUND UTILITIES	03-03-2003
E-12I	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08-09-1995
E-145B	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS	12-23-1994
E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	11-04-1999
E-171a	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS	08-09-1995
E-171b	TRAFFIC CONTROL SIGNALS MISC. DETAILS	08-09-1995
E-171c	TRAFFIC CONTROL SIGNALS CANTILEVER MOUNTING DETAILS	08-09-1995
E-173	PULL BOXES AND JUNCTION BOXES	08-09-1995
G-1	STEEL BEAM GUARDRAIL WITH STEEL POSTS	11-10-2015
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
S-364C	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-10-2014
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
T-31	CONSTRUCTION SIGN DETAILS	08-06-2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013
T-55	SIGN PLACEMENT EXPRESSWAY & FREEWAY	10-26-2015
T-56	STANDARD SIGN PLACEMENT	10-26-2015

PROJECT NAME:	KOCHER DRIVE
PROJECT NUMBER:	STP SDWK (12) & STP BPI8 (14)
FILE NAME:	zSTPSDWK12_index
PROJECT LEADER:	J. DOLMETSCH
DESIGNED BY:	J. DOLMETSCH
INDEX OF SHEETS	
PLOT DATE:	10/1/2019
DRAWN BY:	N. YOSKOWITZ
CHECKED BY:	J. DOLMETSCH
SHEET	2 OF 29

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY 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. SYMBOLGY 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
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
□	BNDNS BOUND TO BE SET
●	IPNS IRON PIN SET
⊙	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 RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLGY

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+TELEP.
— 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+TELEP.
—	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— — — 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
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**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 — P —		PROPERTY LINE (P/L)
— L — L —		
— SR — SR —		SLOPE RIGHTS
6f ——— 6f ———		6F PROPERTY BOUNDARY
4f ——— 4f ———		4F PROPERTY BOUNDARY
HAZ ——— HAZ ———		HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
— X — X — X —	SILT FENCE
— X — X — X —	SILT FENCE WOVEN WIRE
▶ —▶—▶—▶—▶	CHECK DAM
■	DISTURBED AREAS REQUIRING RE-VEGETATION
⊗	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**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**

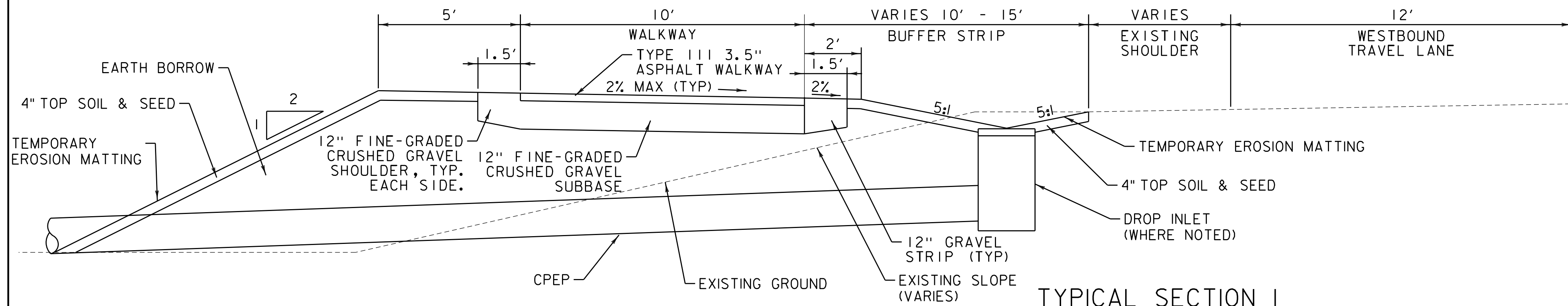
——— ARCH ———	ARCHEOLOGICAL BOUNDARY
——— HISTORIC DIST ———	HISTORIC DISTRICT BOUNDARY
——— HISTORIC ———	HISTORIC AREA
(H)	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
— X — X — X — X —	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:	KOCHER DRIVE
PROJECT NUMBER:	STP SDWK (12) & STP BPI8 (14)
FILE NAME:	zSTPSDWK12.legend
PROJECT LEADER:	J. DOLMETSCH
DESIGNED BY:	J. DOLMETSCH
LEGEND	
PLOT DATE:	10/11/2019
DRAWN BY:	N. YOSKOWITZ
CHECKED BY:	J. DOLMETSCH
SHEET	3 OF 29



**TYPICAL SECTION 1**  
**KOCHER DRIVE (US7 TO PERFORMANCE DRIVE)**  
 NOT TO SCALE

**SEEDING**

1. THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.4% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.
2. USE THE FOLLOWING SEED MIXTURE:
 

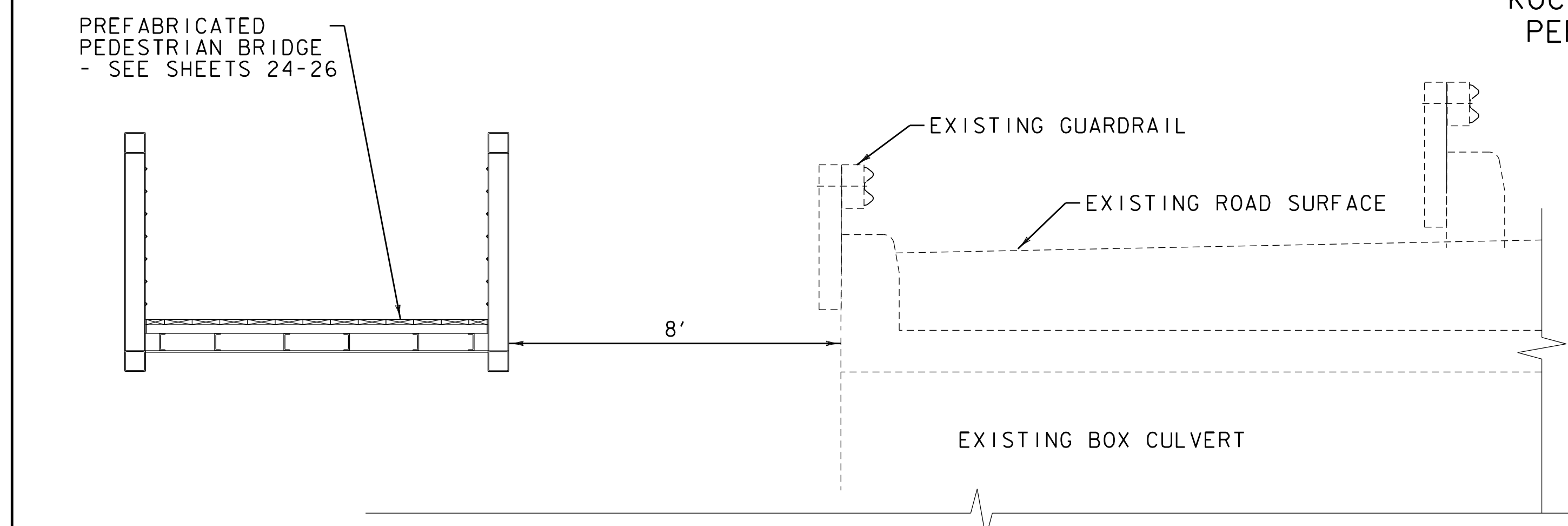
Z#	LBS/ACRE	NAME	PURZ	GERMZ
42.5	34.0	CREeping RED FESCUE	98	85
20.0	16.0	PERENNIAL RYE GRASS	95	90
32.5	26.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
3. MULCHING PER VTRANS STANDARD SPECIFICATION 653.07

**GENERAL CONSTRUCTION NOTES**

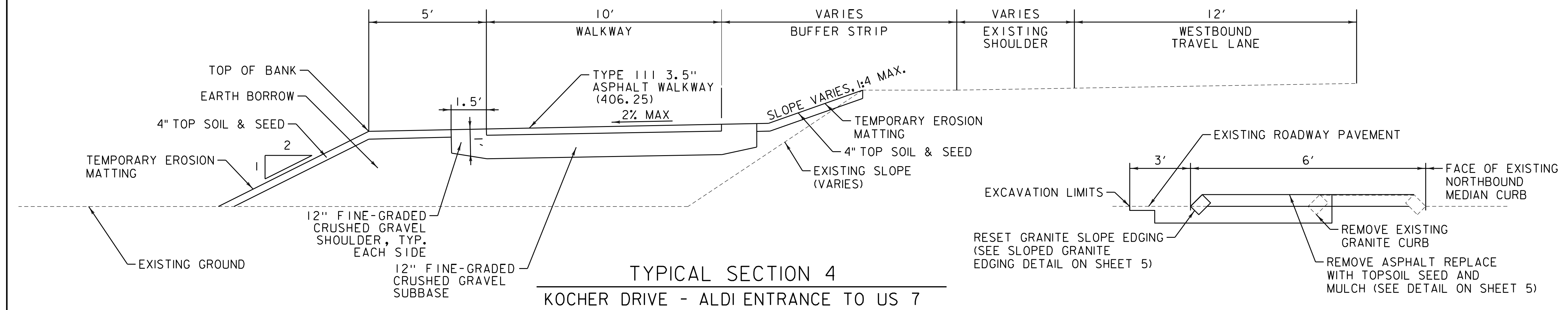
1. CONTRACTOR SHALL CONTACT DIG SAFE AND TOWN OF BENNINGTON AT LEAST 72 HOURS PRIOR TO ANY SUBGRADE CONSTRUCTION AND MUST RECEIVE AN AUTHORIZATION NUMBER.
2. LOCATIONS OF UNDERGROUND UTILITIES ARE NOT BASED ON DIG SAFE MARKINGS AND ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE.
3. THE CONSTRUCTION INSPECTOR SHALL MAINTAIN AS-BUILT PLANS WITH TIES AND ELEVATIONS FOR ALL UNDERGROUND UTILITIES. AS-BUILT PLANS SHALL BE SUBMITTED TO THE TOWN OF BENNINGTON AT THE COMPLETION OF THE PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND UTILITIES.
5. THESE PLANS ARE NOT INTENDED TO BE A BOUNDARY SURVEY. THE PROPERTY LINES ARE BASED ON FIELD WORK AND TAX MAPS FROM THE TOWN OF BENNINGTON.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF STRUCTURES, VEGETATION, AND PAVEMENT NECESSARY TO CONSTRUCT THE PROJECT, UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE TOWN.
7. ANY DE-WATERING THAT IS NECESSARY FOR THE COMPLETION OF THE SITE WORK SHALL BE CONSIDERED AS PART OF THE CONTRACT AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
8. ANY CONFLICTS OR INCONSISTENCIES WITH THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
9. THE CONTRACTOR SHALL CONFORM TO ALL PERMITS AND EASEMENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT. IN PARTICULAR, TEMPORARY CONSTRUCTION EASEMENTS FOR PRIVATE PROPERTIES.
10. DETECTABLE WARNING SURFACE, PAY ITEM 618.30 SHALL BE CAST IRON WHERE NEW RAMPS ARE CONSTRUCTED.

**CONSTRUCTION NOTES**

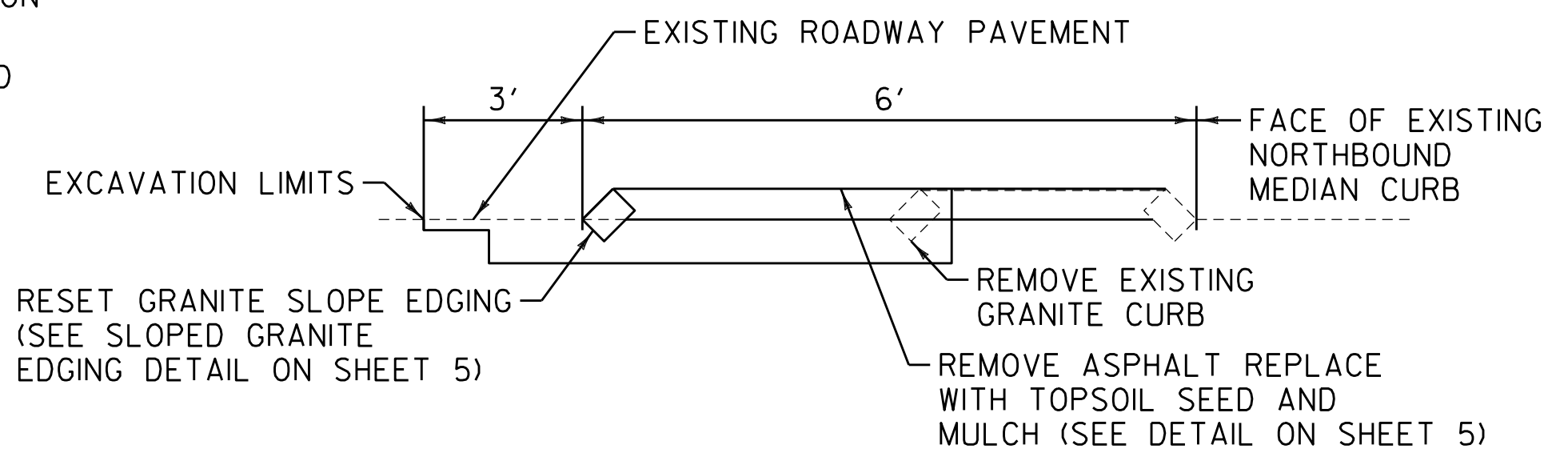
1. ALL MATERIALS USED AND CONSTRUCTION SHALL COMPLY WITH THE 2018 VTRANS STANDARD SPECIFICATIONS. ALL WORK SHALL BE COMPLETED IN A WORKMANLIKE MANNER AND SHALL BE COMPLETED IN THE TIME SPECIFIED BY THE OWNER.
  2. NEW PATH SHALL BE CONSTRUCTED TO LINE AND GRADE SHOWN ON DRAWINGS.
  3. METHODS FOR PREPARATION OF SUBGRADE SHALL CONFORM TO THE 2018 VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTION 203.12.
  4. ANY SUBGRADE DISTURBED BY THE CONTRACTOR, OR RENDERED UNSUITABLE BY CONSTRUCTION MACHINERY SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR BACKFILL AT THE CONTRACTOR'S EXPENSE.
  5. SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM COMPACTION DENSITY (STANDARD PROCTOR) FOR PATHWAY AND PAVEMENT CONSTRUCTION.
  6. FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. FILL SHALL BE PLACED IN 6" LIFTS, WETTED AND COMPACTED WITH SATISFACTORY COMPACTION EQUIPMENT. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM COMPACTION DENSITY.
  7. GRAVEL SUBBASE FOR SIDEWALK SHALL CONFORM TO THE 2018 VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTION 704.05B AND PLACEMENT SHALL CONFORM TO SECTION 301.
  8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THOSE EXISTING AT THE START OF CONSTRUCTION, OR AS OTHERWISE SPECIFIED. SHOULD THE CONTRACTOR DISTURB AREAS BEYOND THE CONSTRUCTION LIMITS, EASEMENTS, OR RIGHT OF WAYS, THIS RESTORATION WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SHOW PROOF OF AN AGREEMENT W/ THE PROPERTY OWNER PRIOR TO COMMENCING ANY WORK OUTSIDE OF THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXISTING UTILITIES AND THEIR UNINTERRUPTED SERVICE. ALL OFF-SITE BACKFILL, SHEETING, SHORING, DE-WATERING, EROSION CONTROL, CLEARING, GRUBBING, DUST CONTROL, TRAFFIC CONTROL, GRADING, AND INCIDENTALS TO MAKE THE WORK COMPLETE SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.
  9. THE CONTRACTOR SHALL INSTALL A 1/2" PREMOLDED JOINT FILLER BETWEEN ALL EXISTING TO PROPOSED CONCRETE JOINTS.
- FILL LINES SHOWN ON DETAILS REPRESENT PAY LIMITS UNLESS NOTED OTHERWISE.



**TYPICAL SECTION 2**  
**KOCHER DRIVE - BRIDGE OVER FURNACE BROOK**  
 NOT TO SCALE



**TYPICAL SECTION 4**  
**KOCHER DRIVE - ALDI ENTRANCE TO US 7**  
 NOT TO SCALE



**TYPICAL SECTION 3 - RAISED MEDIAN ISLAND**  
 US ROUTE 7 - KOCHER DRIVE TO APPROX. 315 FEET NORTH OF KOCHER DRIVE

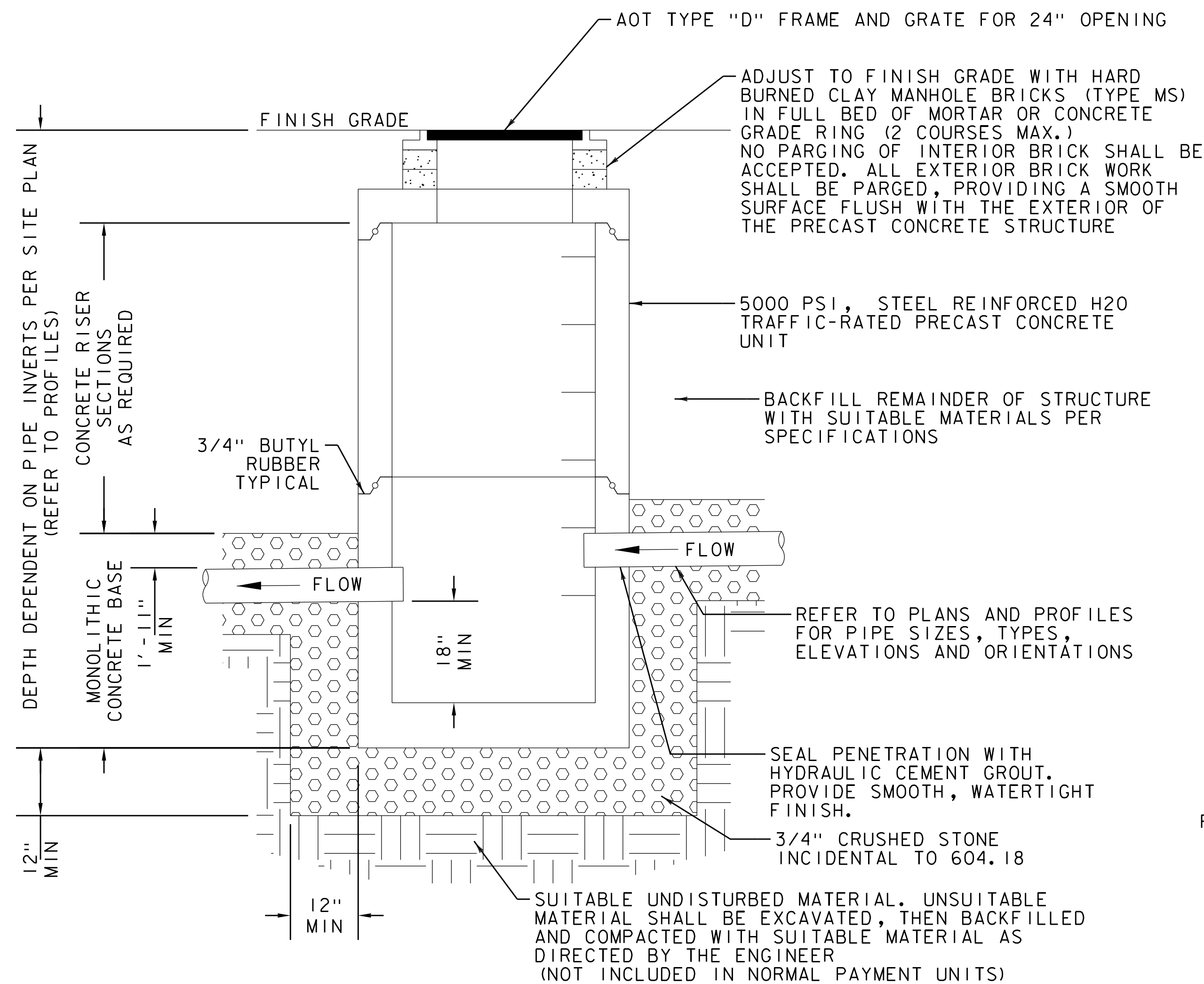
**NOTE:**  
 EARTH BORROW MEETING ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM; FREE OF ROCK OR GRAVEL LARGER THAN 6 INCHES IN ANY DIMENSION, FREE FROM STRUCTURALLY WEAK PIECES, THIN OR ELONGATED PIECES, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATTER.



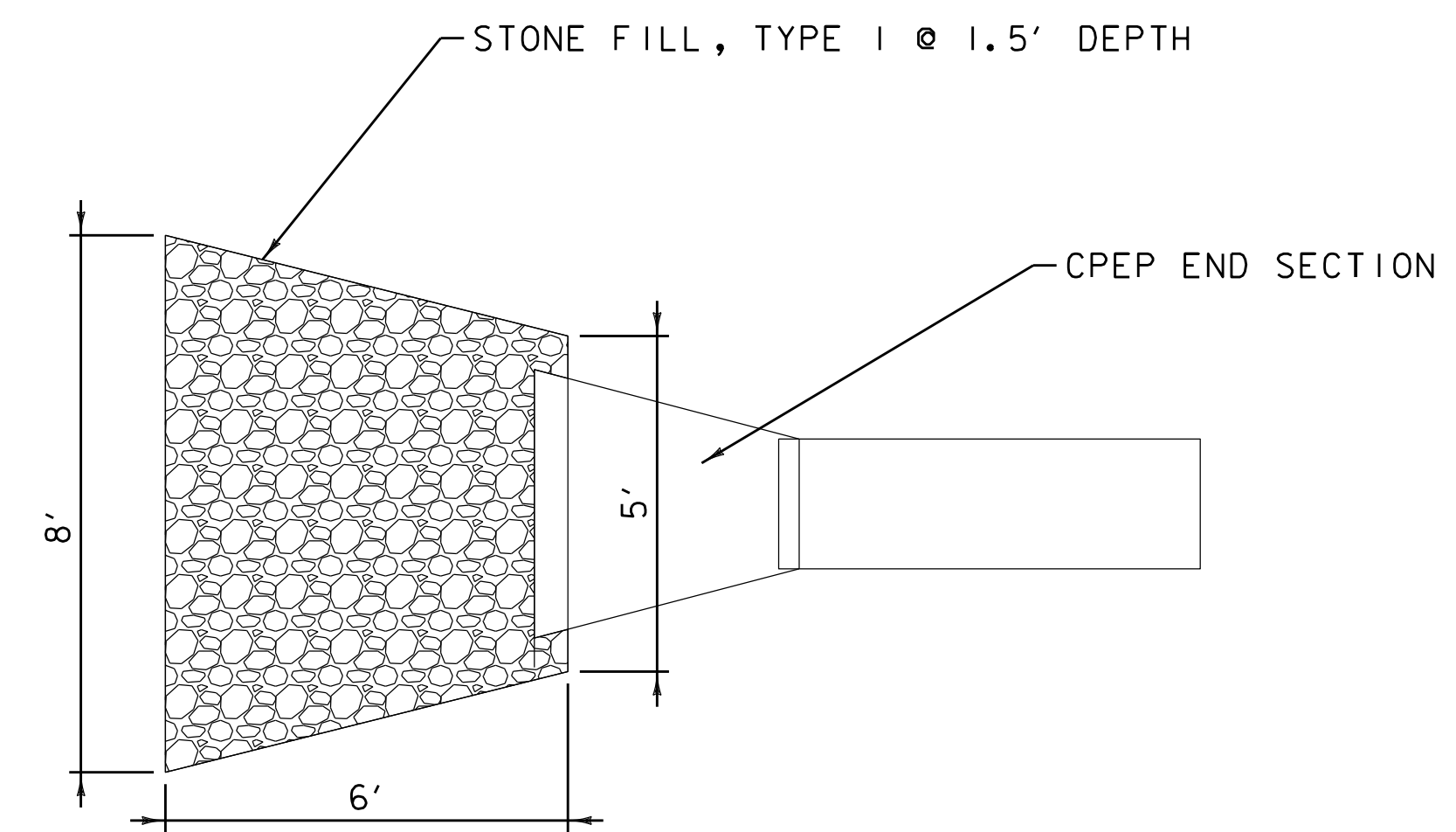
**MSK ENGINEERING AND DESIGN, INC.**  
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 BENNINGTON, VERMONT 05201  
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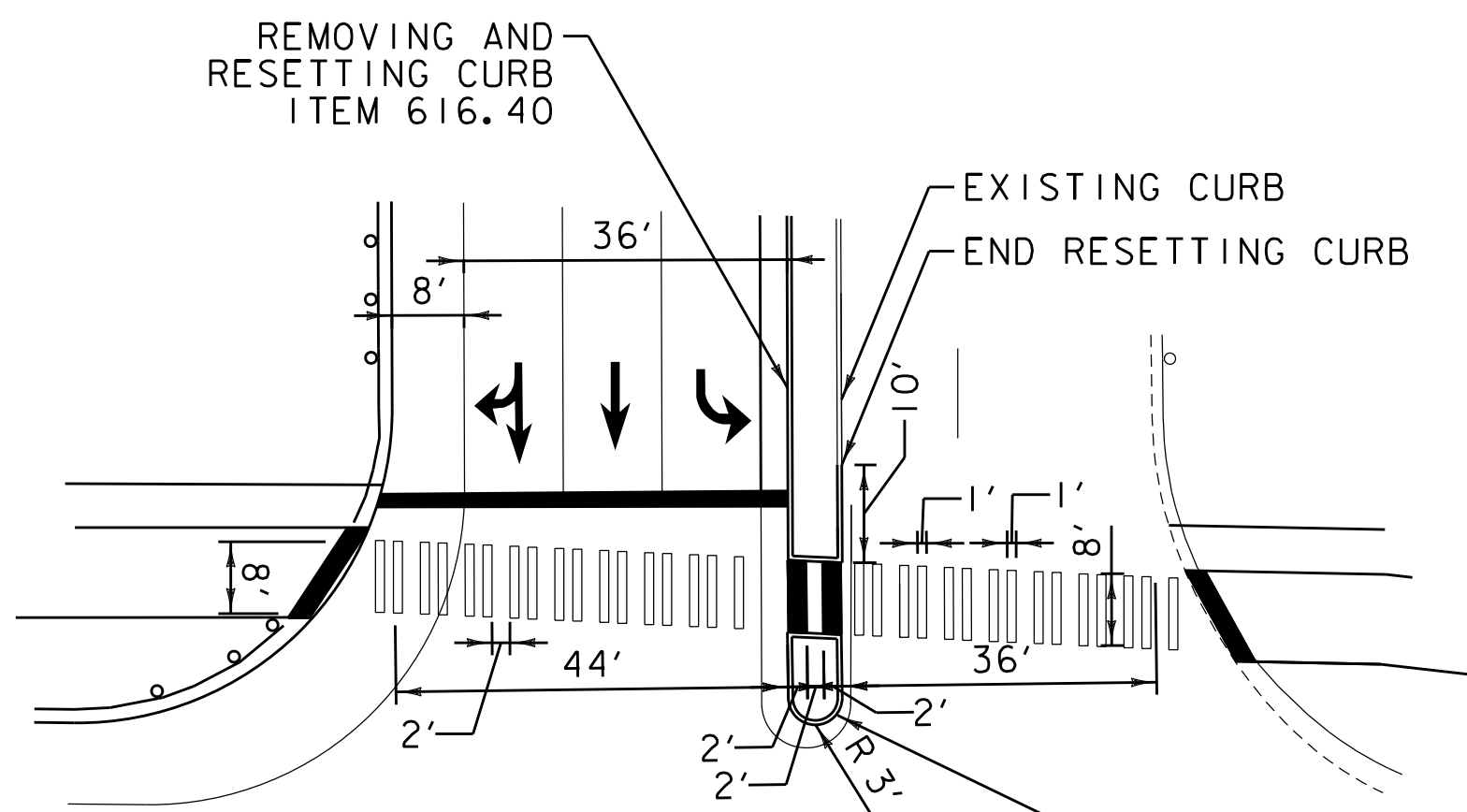
PROJECT NAME:	KOCHER DRIVE
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)
FILE NAME:	zSTPSDWK12+yp
PROJECT LEADER:	J. DOLMETSCH
DESIGNED BY:	J. DOLMETSCH
TYPICAL DETAILS	
PLOT DATE:	10/11/2019
DRAWN BY:	N. YOSKOWITZ
CHECKED BY:	J. DOLMETSCH
SHEET	4 OF 29



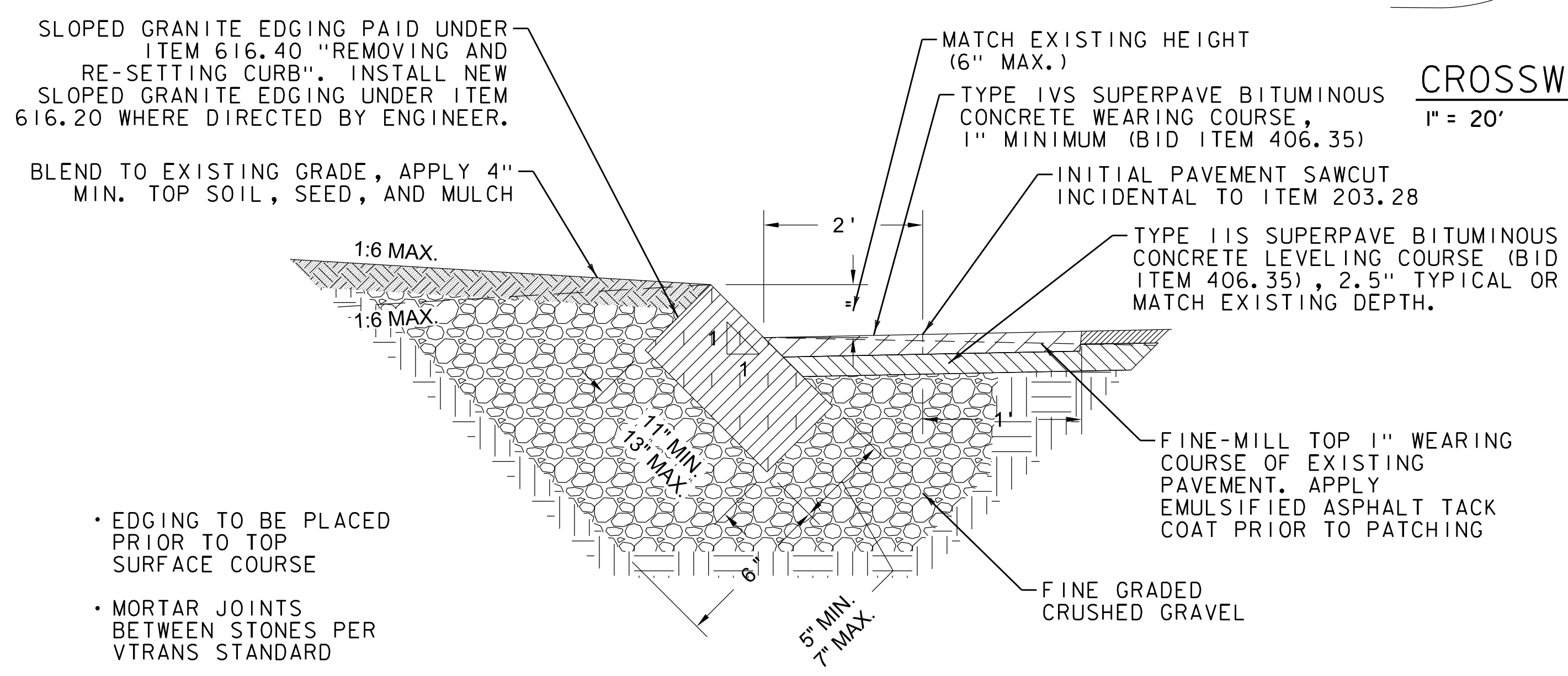
**DROP INLET TYPICAL**  
NOT TO SCALE



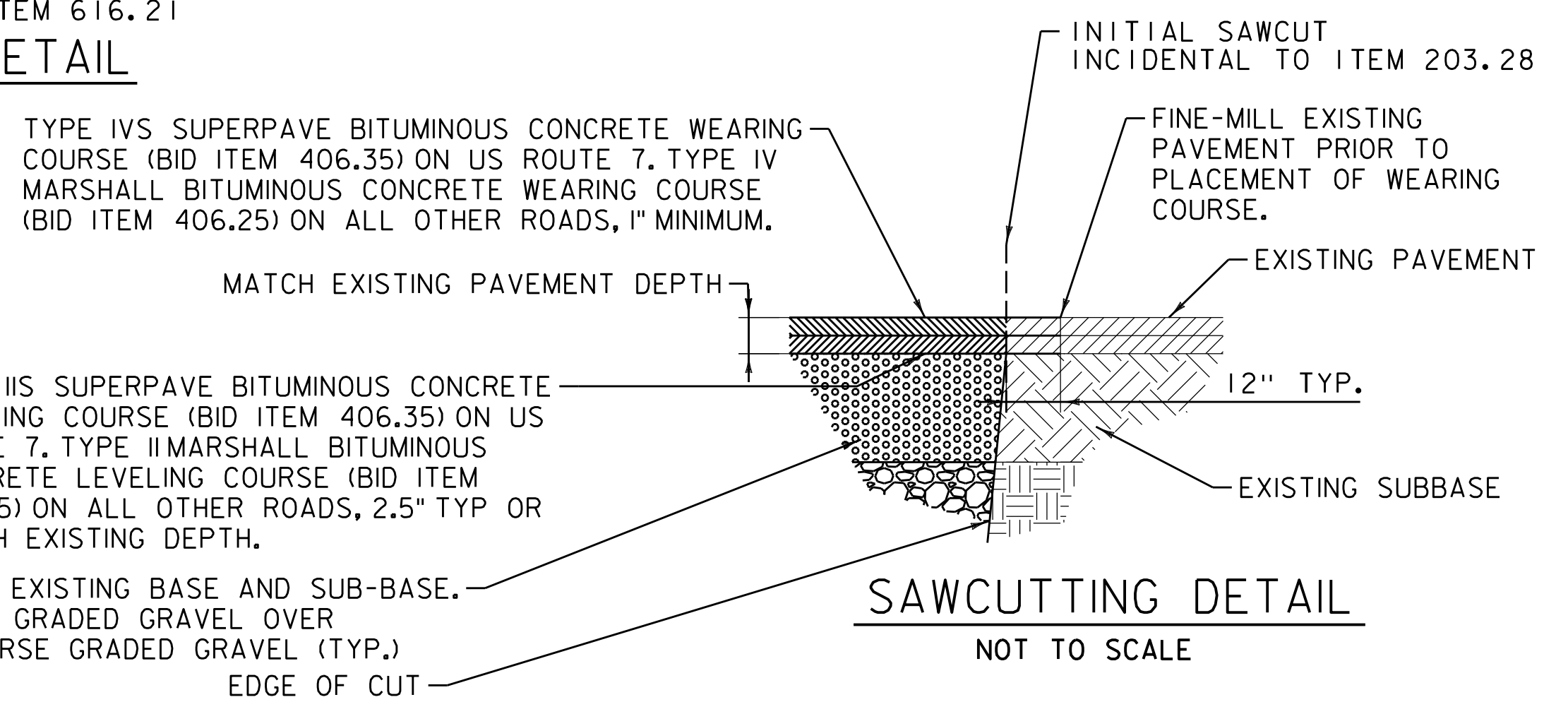
**OUTLET EROSION PROTECTION PAD**  
NOT TO SCALE



**CROSSWALK PAVEMENT MARKINGS DETAIL**  
1" = 20'



**SLOPED GRANITE EDGING DETAIL ***  
• SUPERCEDES VTRANS TYPICAL NOT TO SCALE



**SAWCUTTING DETAIL**  
NOT TO SCALE



**MSK ENGINEERING AND DESIGN, INC.**  
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PROJECT NAME: KOCHER DRIVE  
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)  
FILE NAME: zSTPSDWK12+yp2  
PROJECT LEADER: J. DOLMETSCH  
DESIGNED BY: J. DOLMETSCH  
TYPICAL DETAILS  
PLOT DATE: 10/11/2019  
DRAWN BY: N. YOSKOWITZ  
CHECKED BY: J. DOLMETSCH  
SHEET 5 OF 29

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES								
										ROADWAY	EROSION CONTROL	BRIDGE	FULL C.E. ITEMS	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
																			CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
										1						1			LS					
										643						643			CY	COMMON EXCAVATION	203.15			
										42						42			CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28			
										3520						3520			CY	EARTH BORROW	203.30			
										185						185			CY	TRENCH EXCAVATION OF EARTH	204.20			
										1680						1680			SY	FINE-MILLING, BITUMINOUS PAVEMENT	210.12			
										710						710			CY	SUBBASE OF CRUSHED GRAVEL, FINE-GRADED	301.26			
										350						350			TON	MARSHALL BITUMINOUS CONCRETE PAVEMENT	406.25			
										100						100			TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	406.35			
										19						19			LF	15" CPEP (SL)	601.2610			
										270						270			LF	18" CPEP (SL)	601.2615			
										1						1			EACH	18" CPEPES	601.7015			
										2						2			EACH	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	604.18			
										2						2			CY	STONE FILL, TYPE I	613.10			
										20						20			LF	GRANITE SLOPE EDGING	616.20			
										223						223			LF	VERTICAL GRANITE CURB	616.21			
										20						20			LF	CAST-IN PLACE CONCRETE CURB, TYPE B	616.28			
										220						220			LF	REMOVING AND RESETTING CURB	616.40			
										74						74			LF	REMOVAL OF EXISTING CURB	616.41			
										60						60			SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10			
										160						160			SF	DETECTABLE WARNING SURFACE	618.30			
										24						24			LF	CHAIN LINK FENCE, 6 FEET	620.12			
										1						1			EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50			
										3						3			EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51			
										2						2			EACH	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I	621.70			
										250						250			LF	REMOVE AND RESET GUARDRAIL	621.75			
										340						340			LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80			
										70						70			EACH	REMOVAL AND DISPOSAL OF GUIDE POSTS	621.81			
										20						20			EACH	GUIDE POSTS	621.85			
										160						160			HRS	UNIFORMED TRAFFIC CONTROL OFFICERS	630.10			
										160						160			HRS	FLAGGERS	630.15			
										1						1			LS	MOBILIZATION / DEMOBILIZATION	635.11			
										1						1			LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11			
										950						950			LF	DURABLE 6 INCH WHITE LINE, EPOXY PAINT	646.423			
										495						495			LF	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	646.433			
										54						54			LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483			
										20						20			EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493			
										232						232			LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503			
										65						65			LB	SEED	651.15			
										952						952			LB	FERTILIZER	651.18			

PROJECT NAME: KOCHER DRIVE	
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)	
FILE NAME: zSTPSDWK12.qty	PLOT DATE: 10-1-2019
PROJECT LEADER: J. DOLMETSCH	DRAWN BY: N. YOSKOWITZ
DESIGNED BY: J. DOLMETSCH	CHECKED BY: J. DOLMETSCH
QUANTITY SHEET (I)	SHEET 6 OF 29

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES											TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES							
											ROADWAY	EROSION CONTROL	BRIDGE	FULL C.E. ITEMS	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
											606						606		CY	TOPSOIL	651.35			
											1416						1416		SY	ROLLED EROSION CONTROL PRODUCT, TYPE 1	653.20			
											2						2		EACH	INLET PROTECTION DEVICE, TYPE II	653.41			
											535						535		LF	SILT FENCE, TYPE 1	653.475			
											20						20		SF	TRAFFIC SIGNS, TYPE A	675.20			
											60						60		LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341			
											3						3		EACH	REMOVING SIGNS	675.50			
											1						1		EACH	RESETTING SIGNS	675.60			
											370						370		LF	ELECTRICAL CONDUIT	678.21			
											519						519		LF	WIRED CONDUIT	678.23			
											367						367		LF	ELECTRICAL WIRING	678.24			
											8						8		EACH	JUNCTION BOX	678.26			
											341						341		LF	SPECIAL PROVISION (HORIZONTAL DIRECTIONAL DRILLING - 10" UTILITY SLEEVE)	900.640			
											1						1		LS	SPECIAL PROVISION (RELOCATE EXISTING OVERHEAD SIGN)	900.6450			
											1						1		LS	SPECIAL PROVISION (HYDRANT EXTENSION)	900.6451			
											1						1		LS	SPECIAL PROVISION (PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE)	900.6452			
											1						1		LS	SPECIAL PROVISION ( VIDEO DETECTION ZONE ADJUSTMENT ) ( VT 7A & BENMONT AVENUE )	900.6453			
											1						1		LS	SPECIAL PROVISION ( VIDEO DETECTION ZONE ADJUSTMENT ) ( US 7 & KOCHER DRIVE )	900.6454			
											1						1		LS	SPECIAL PROVISION ( PEDESTRIAN SIGNAL EQUIPMENT ) ( VT 7A & BENMONT AVENUE )	900.6455			
											1						1		LS	SPECIAL PROVISION ( PEDESTRIAN SIGNAL EQUIPMENT ) ( US 7 & KOCHER DRIVE )	900.6456			

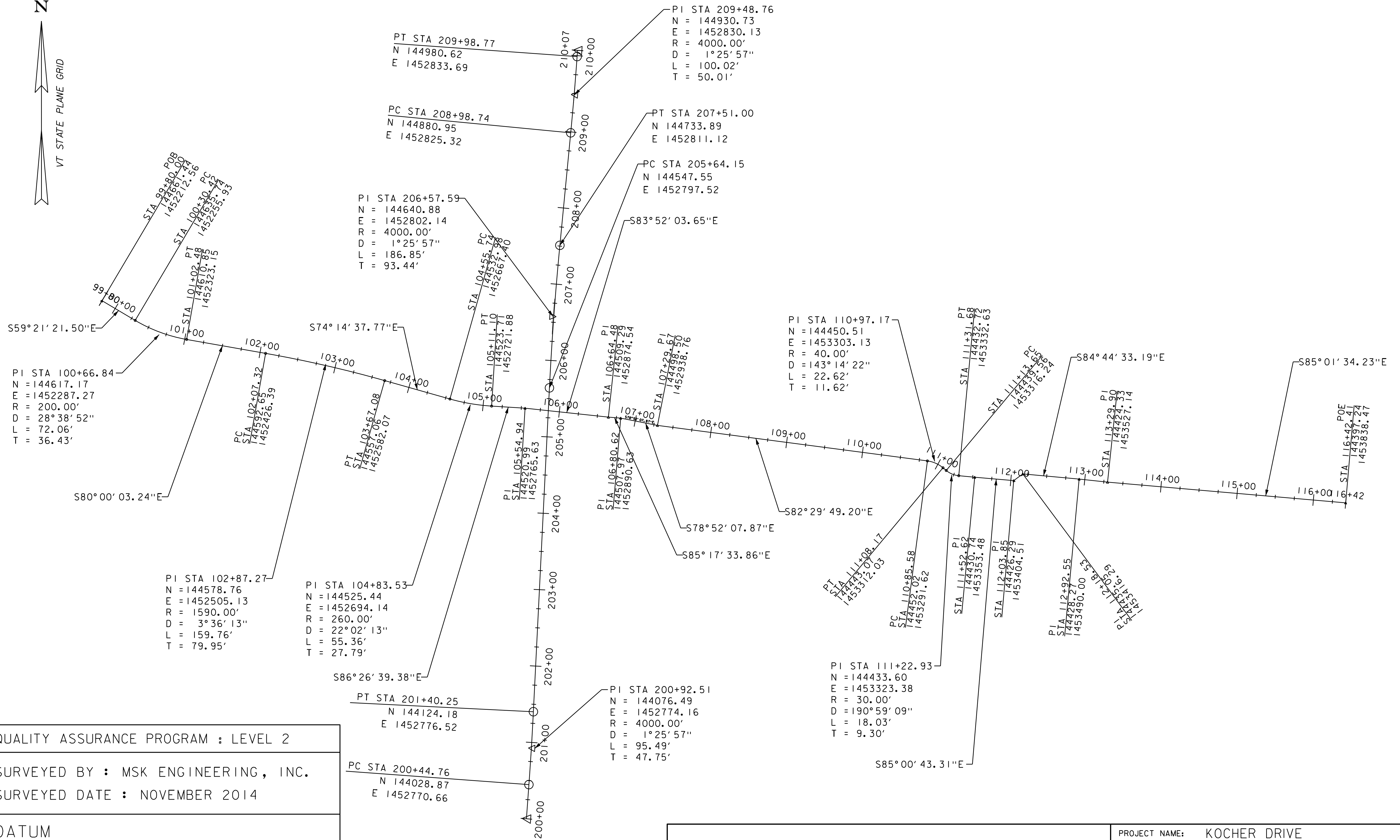
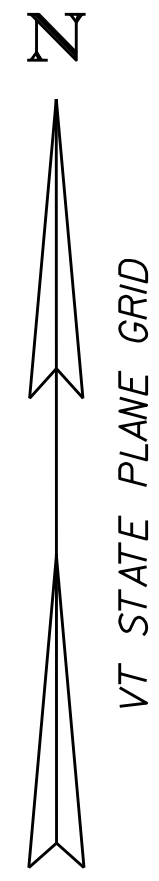
PROJECT NAME: KOCHER DRIVE	PLOT DATE: 10-1-2019
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)	DRAWN BY: N. YOSKOWITZ
FILE NAME: zSTPSDWK12.qty	CHECKED BY: J. DOLMETSCH
PROJECT LEADER: J. DOLMETSCH	SHEET 7 OF 29
DESIGNED BY: J. DOLMETSCH	
QUANTITY SHEET (2)	

# BRIDGE QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES														TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES			
											APP SLAB 1	ABUTMENT 1	SUPERSTRUCTURE	ABUTMENT 2	APP SLAB 2	BRIDGE TOTAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS
												60		55		115	CY	STRUCTURE EXCAVATION	204.25			
												40		40		80	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30			
												1750		1750		3500	LB	REINFORCING STEEL, LEVEL 1	507.11			
												18		18		36	CY	CONCRETE, CLASS B	541.25			

PROJECT NAME: KOCHER DRIVE  
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)  
FILE NAME: zSTPSDWK12.qty  
PROJECT LEADER: J. DOLMETSCH  
DESIGNED BY: J. DOLMETSCH  
BRIDGE QUANTITY SHEET (I)  
PLOT DATE: 10-1-2019  
DRAWN BY: N. YOSKOWITZ  
CHECKED BY: J. DOLMETSCH  
SHEET 8 OF 29





QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : MSK ENGINEERING, INC.  
 SURVEYED DATE : NOVEMBER 2014

DATUM  
 VERTICAL: NAVD 1988  
 HORIZONTAL: NAD 1983



**MSK ENGINEERING AND DESIGN, INC.**  
 P.O. BOX 10, 150 DEPOT STREET  
 BENNINGTON, VERMONT 05201  
 PH: (802) 447-1402 FAX: (802) 445-1291

**MILONE & MACBROOM**  
 1 South Main Street, 2nd Floor  
 Waterbury, Vermont 05676  
 (802) 882-8335 Fax (802) 882-8346  
 www.miloneandmacbroom.com

PROJECT NAME: KOCHER DRIVE  
 PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)

FILE NAME: zSTPSDWK12_algbr.dgn  
 PROJECT LEADER: J. DOLMETSCH  
 DESIGNED BY: J. DOLMETSCH  
 ALIGNMENT LAYOUT SHEET

PLOT DATE: 10/1/2019  
 DRAWN BY: N.YOSKOWITZ  
 CHECKED BY: J. DOLMETSCH  
 SHEET 9 OF 29

MARSHALL BITUMINOUS CONCRETE PAVEMENT

100+46.25 - 105+00.00

DETECTABLE WARNING SURFACE

100+03 LT

100+42 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

99+94.37 - 100+04.78

100+38.05 - 100+46.25

DURABLE 24 INCH STOP BAR, EPOXY PAINT

100+05.00 LT - 100+20.00 LT

DURABLE CROSSWALK MARKING, EPOXY PAINT

100+06.00 - 100+36.00

FINE MILLING, BITUMINOUS PAVEMENT

100+00.00 - 100+75.00

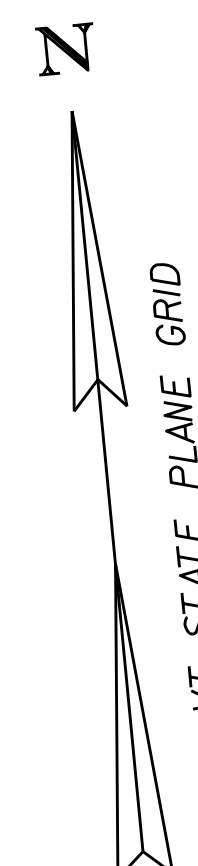
CAST-IN-PLACE CONCRETE CURB, TYPE B

100+00.00 - 100+05.00

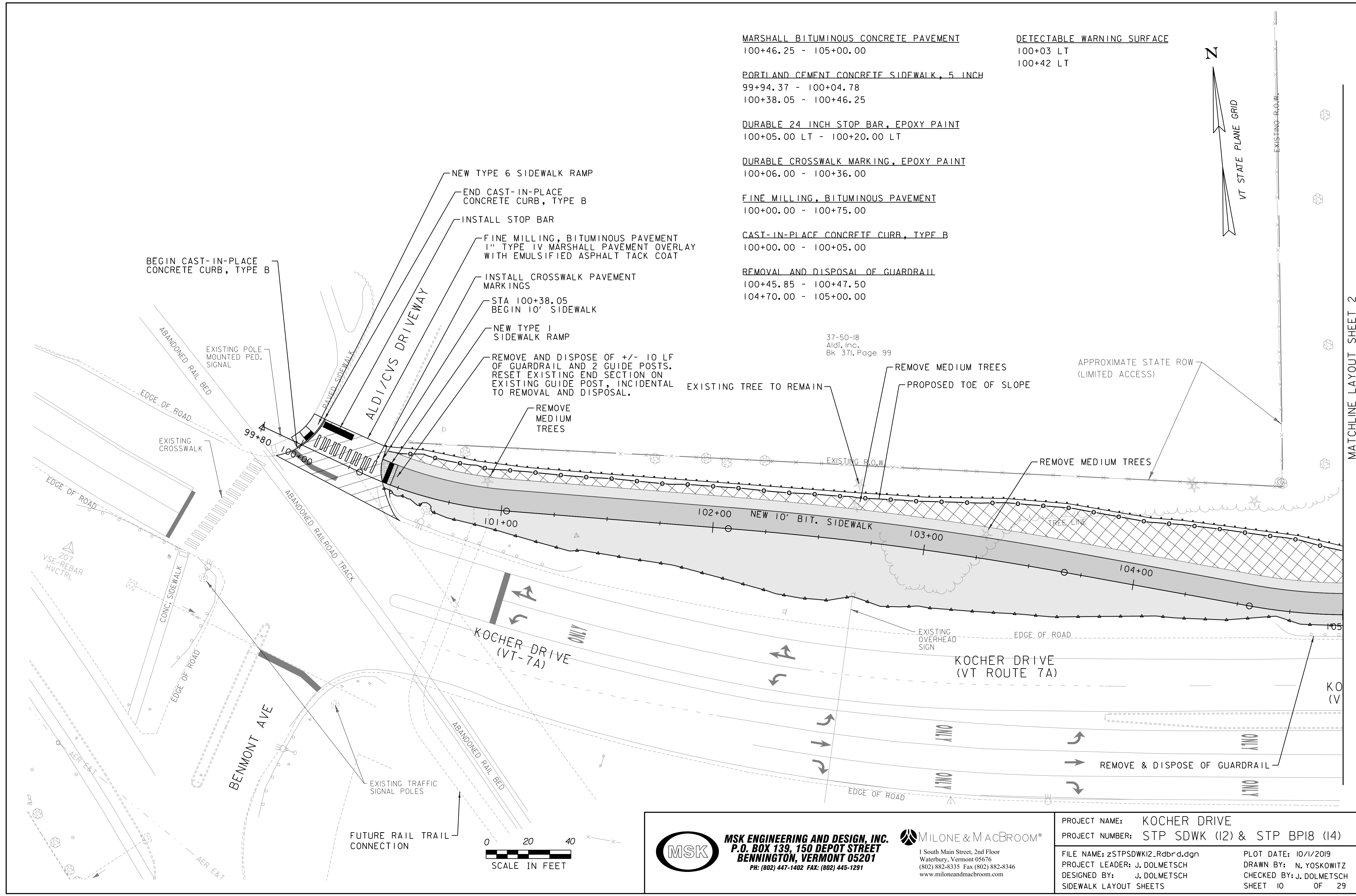
REMOVAL AND DISPOSAL OF GUARDRAIL

100+45.85 - 100+47.50

104+70.00 - 105+00.00



MATCHLINE LAYOUT SHEET 2



BEGIN CAST-IN-PLACE CONCRETE CURB, TYPE B

NEW TYPE 6 SIDEWALK RAMP

END CAST-IN-PLACE CONCRETE CURB, TYPE B

INSTALL STOP BAR

FINE MILLING, BITUMINOUS PAVEMENT 1" TYPE IV MARSHALL PAVEMENT OVERLAY WITH EMULSIFIED ASPHALT TACK COAT

INSTALL CROSSWALK PAVEMENT MARKINGS

STA 100+38.05 BEGIN 10' SIDEWALK

NEW TYPE 1 SIDEWALK RAMP

REMOVE AND DISPOSE OF +/- 10 LF OF GUARDRAIL AND 2 GUIDE POSTS. RESET EXISTING END SECTION ON EXISTING GUIDE POST, INCIDENTAL TO REMOVAL AND DISPOSAL.

REMOVE MEDIUM TREES

EXISTING TREE TO REMAIN

REMOVE MEDIUM TREES

PROPOSED TOE OF SLOPE

APPROXIMATE STATE ROW (LIMITED ACCESS)

REMOVE MEDIUM TREES

NEW 10' BIT. SIDEWALK

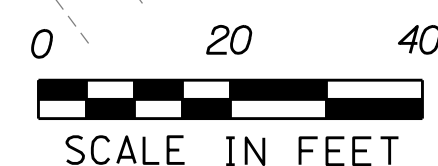
37-50-18 Aldi, Inc. Bk 371, Page 99

EXISTING OVERHEAD SIGN

KOCHER DRIVE (VT ROUTE 7A)

REMOVE & DISPOSE OF GUARDRAIL

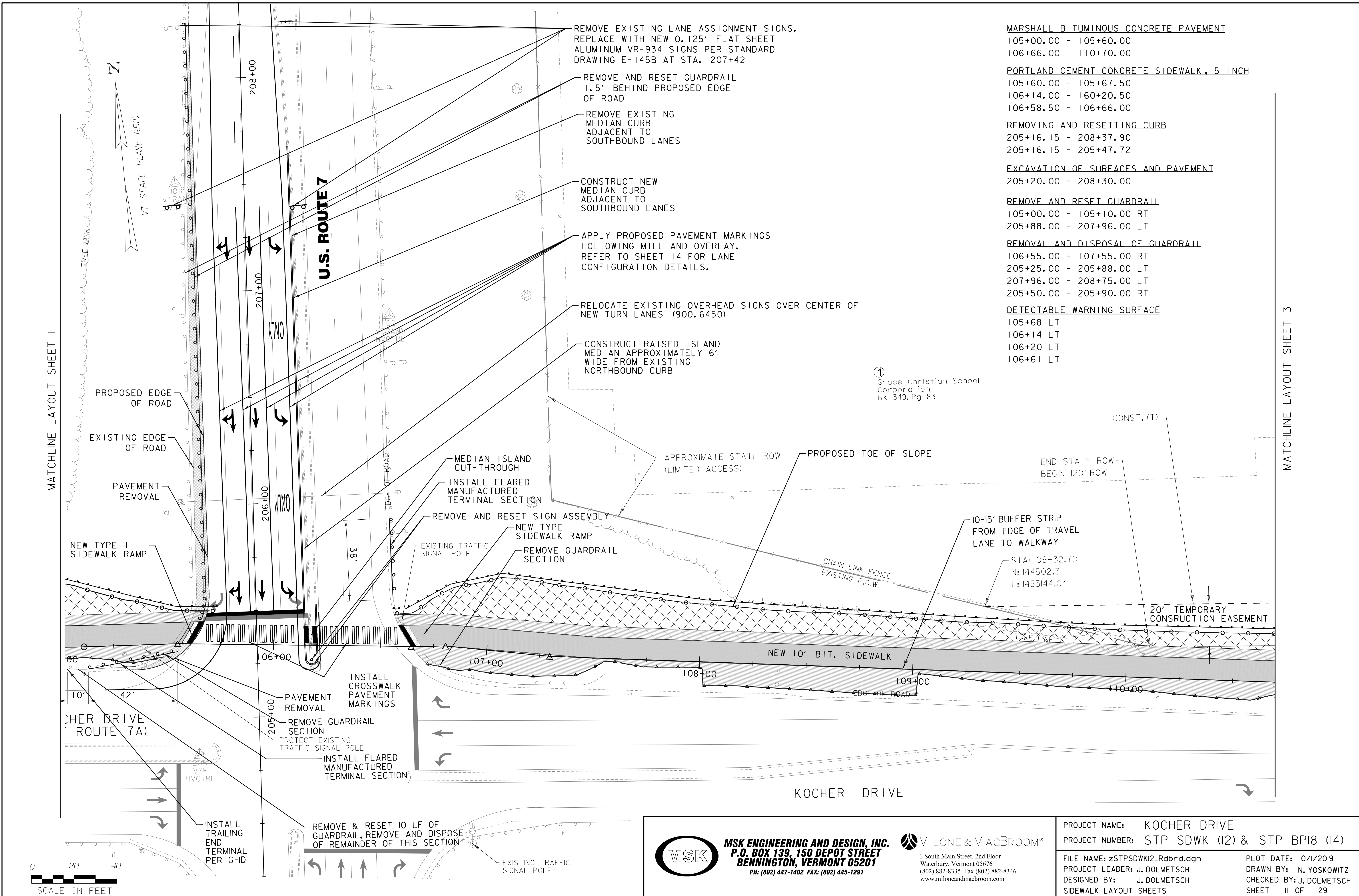
FUTURE RAIL TRAIL CONNECTION



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MILONE & MACBROOM 1 South Main Street, 2nd Floor Waterbury, Vermont 05676 (802) 882-8335 Fax (802) 882-8346 www.miloneandmacbroom.com

PROJECT NAME: KOCHER DRIVE PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4) FILE NAME: zSTPSDWK12_Rdbr.dgn PLOT DATE: 10/1/2019 PROJECT LEADER: J. DOLMETSCH DRAWN BY: N. YOSKOWITZ DESIGNED BY: J. DOLMETSCH CHECKED BY: J. DOLMETSCH SHEET 10 OF 29 SIDEWALK LAYOUT SHEETS



- MARSHALL BITUMINOUS CONCRETE PAVEMENT  
105+00.00 - 105+60.00  
106+66.00 - 110+70.00
- PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
105+60.00 - 105+67.50  
106+14.00 - 160+20.50  
106+58.50 - 106+66.00
- REMOVING AND RESETTING CURB  
205+16.15 - 208+37.90  
205+16.15 - 205+47.72
- EXCAVATION OF SURFACES AND PAVEMENT  
205+20.00 - 208+30.00
- REMOVE AND RESET GUARDRAIL  
105+00.00 - 105+10.00 RT  
205+88.00 - 207+96.00 LT
- REMOVAL AND DISPOSAL OF GUARDRAIL  
106+55.00 - 107+55.00 RT  
205+25.00 - 205+88.00 LT  
207+96.00 - 208+75.00 LT  
205+50.00 - 205+90.00 RT
- DETECTABLE WARNING SURFACE  
105+68 LT  
106+14 LT  
106+20 LT  
106+61 LT

① Grace Christian School Corporation  
Bk 349, Pg 83



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PROJECT NAME:	KOCHER DRIVE	PLOT DATE:	10/1/2019
PROJECT NUMBER:	STP SDWK (12) & STP BPI8 (14)	DRAWN BY:	N. YOSKOWITZ
FILE NAME:	zSTPSDWK12_Rdbr.dgn	CHECKED BY:	J. DOLMETSCH
PROJECT LEADER:	J. DOLMETSCH	SHEET	11 OF 29
DESIGNED BY:	J. DOLMETSCH		
SIDEWALK LAYOUT SHEETS			

MATCHLINE LAYOUT SHEET 2

**DETECTABLE WARNING SURFACE**  
111+66 LT  
112+01 LT  
115+87 LT

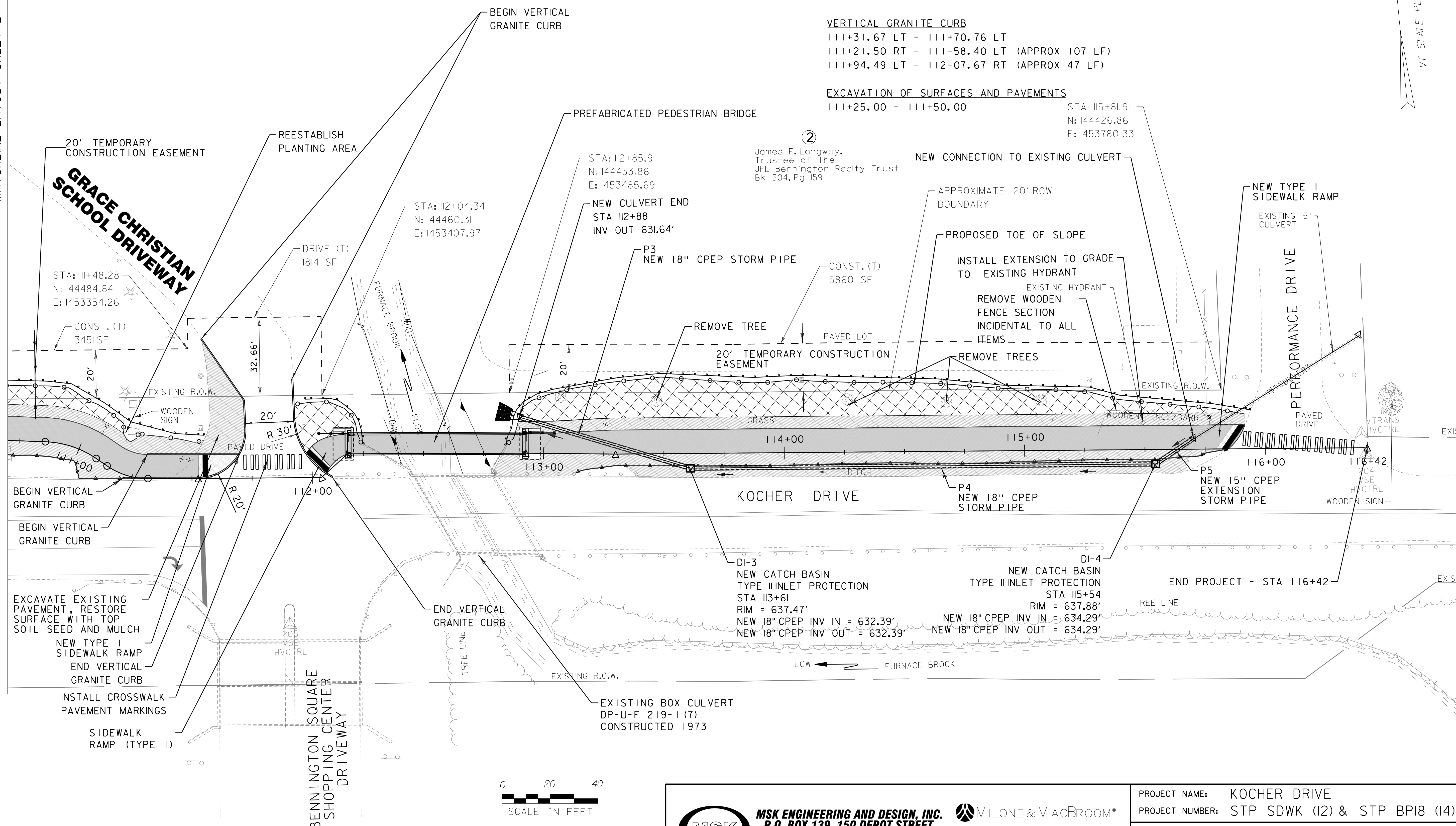
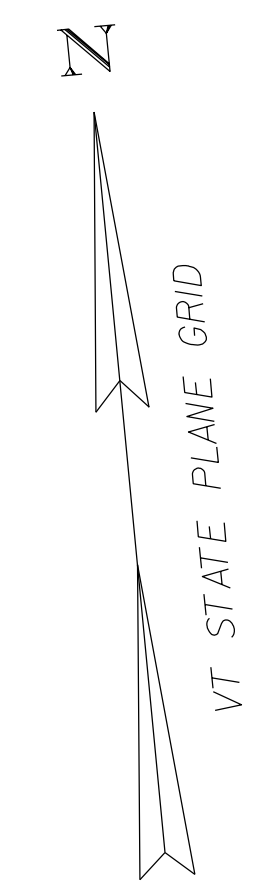
**MARSHALL BITUMINOUS CONCRETE PAVEMENT**  
110+70.00 - 111+52.50  
112+09.60 - 112+18.50  
112+92.50 - 115+83.50

**PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**  
111+52.50 - 111+69.80  
111+97.80 - 112+09.60  
115+83+50 - 115+91.60

**VERTICAL GRANITE CURB**  
111+31.67 LT - 111+70.76 LT  
111+21.50 RT - 111+58.40 LT (APPROX 107 LF)  
111+94.49 LT - 112+07.67 RT (APPROX 47 LF)

**EXCAVATION OF SURFACES AND PAVEMENTS**  
111+25.00 - 111+50.00

STA: 115+81.91  
N: 144426.86  
E: 1453780.33



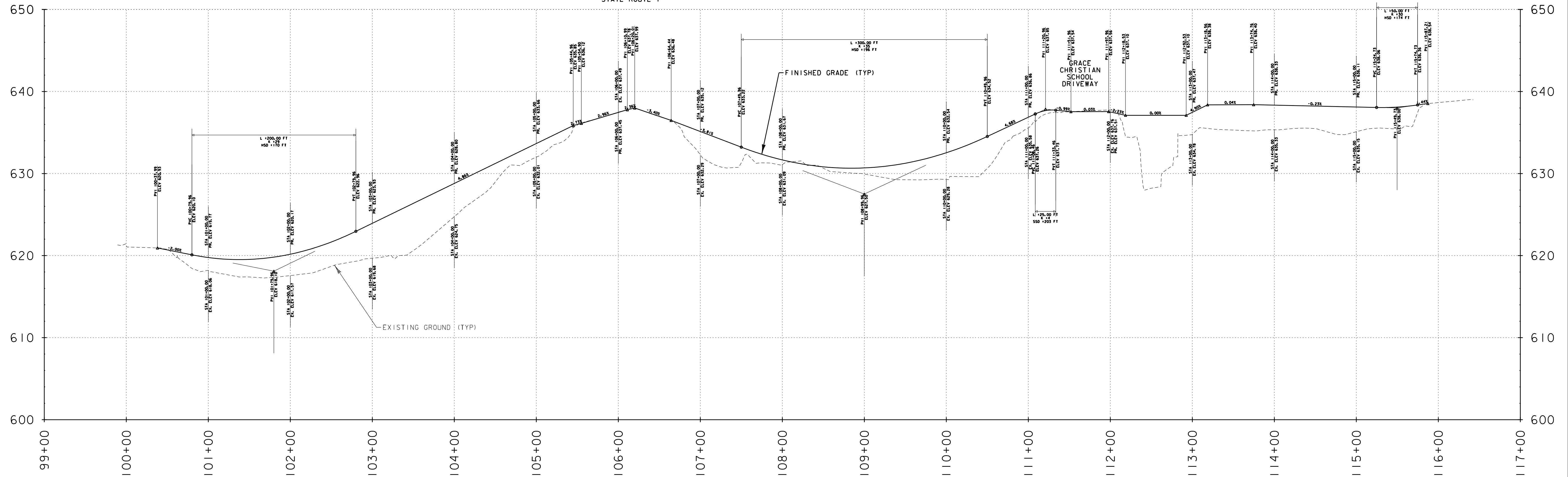
**MSK ENGINEERING AND DESIGN, INC.**  
P.O. BOX 139, 150 DEPOT STREET  
BENNINGTON, VERMONT 05201  
PH: (802) 447-1402 FAX: (802) 445-1291

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PROJECT NAME: KOCHER DRIVE  
PROJECT NUMBER: STP SDWK (12) & STP BPI8 (14)  
FILE NAME: zSTPSDWK12_Rdbr.dgn  
PROJECT LEADER: J. DOLMETSCH  
DESIGNED BY: J. DOLMETSCH  
SIDEWALK LAYOUT SHEETS

PLOT DATE: 10/1/2019  
DRAWN BY: N. YOSKOWITZ  
CHECKED BY: J. DOLMETSCH  
SHEET 12 OF 29

STATE ROUTE 7



LINE	SURFACE	OFFSET
-----	Kocher_Survey	0.00
	Scaled 10.0000	Times Ver.
	Scaled 1.0000	Times Hor.



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PROJECT NAME: KOCHER DRIVE  
 PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)  
 FILE NAME: zSPSDWKI2_pr f  
 PROJECT LEADER: J. DOLMETSCH  
 DESIGNED BY: J. DOLMETSCH  
 SIDEWALK PROFILE  
 PLOT DATE: 10/17/2019  
 DRAWN BY: N. YOSKOWITZ  
 CHECKED BY: J. DOLMETSCH  
 SHEET 13 OF 29

DURABLE 6 INCH WHITE LINE - DASH, EPOXY PAINT  
207+42.00 - 209+80.00

DURABLE 6 INCH WHITE LINE - SOLID, EPOXY PAINT  
205+15.91 LT - 209+82.14 LT  
205+45.85 RT - 207+42 RT  
205+48.01 - 207+42

DURABLE 6 INCH YELLOW LINE, EPOXY PAINT  
205+20 RT - 209+80 RT  
205+20 RT - 205+52 RT

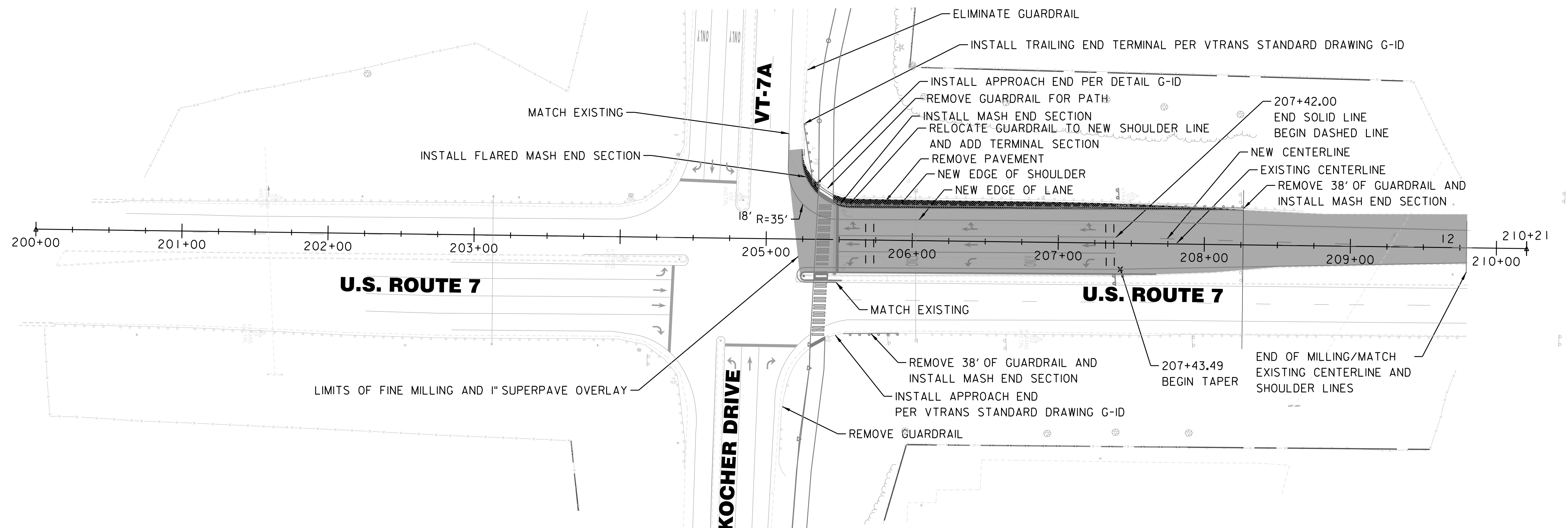
DURABLE LETTER OR SYMBOL, EPOXY PAINT  
205+54.00 RT  
205+54.00  
205+54.00 LT  
205+94.50 RT  
206+34.83 RT  
206+34.83  
206+34.83 LT  
206+75.33 RT  
207+15.67 RT  
207+15.67  
207+15.67 LT

DURABLE 24 INCH STOP BAR, EPOXY PAINT  
205+49.71 LT & RT

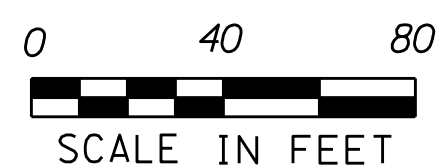
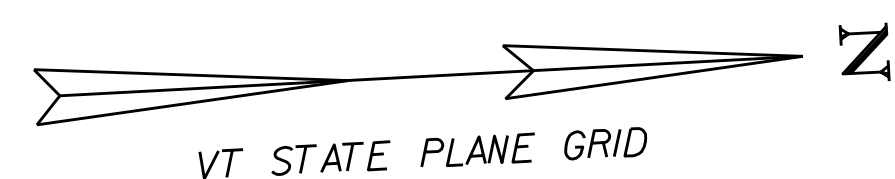
FINE MILLING, BITUMINOUS PAVEMENT  
205+20 - 209+80

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT  
205+20 - 209+80

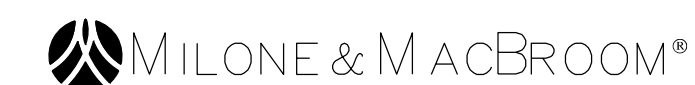
DURABLE CROSSWALK MARKING, EPOXY PAINT  
205+31.58 RT - 205+41.20 RT  
205+34.03 RT - 205+44.24 LT



PAVEMENT MARKING DETAIL

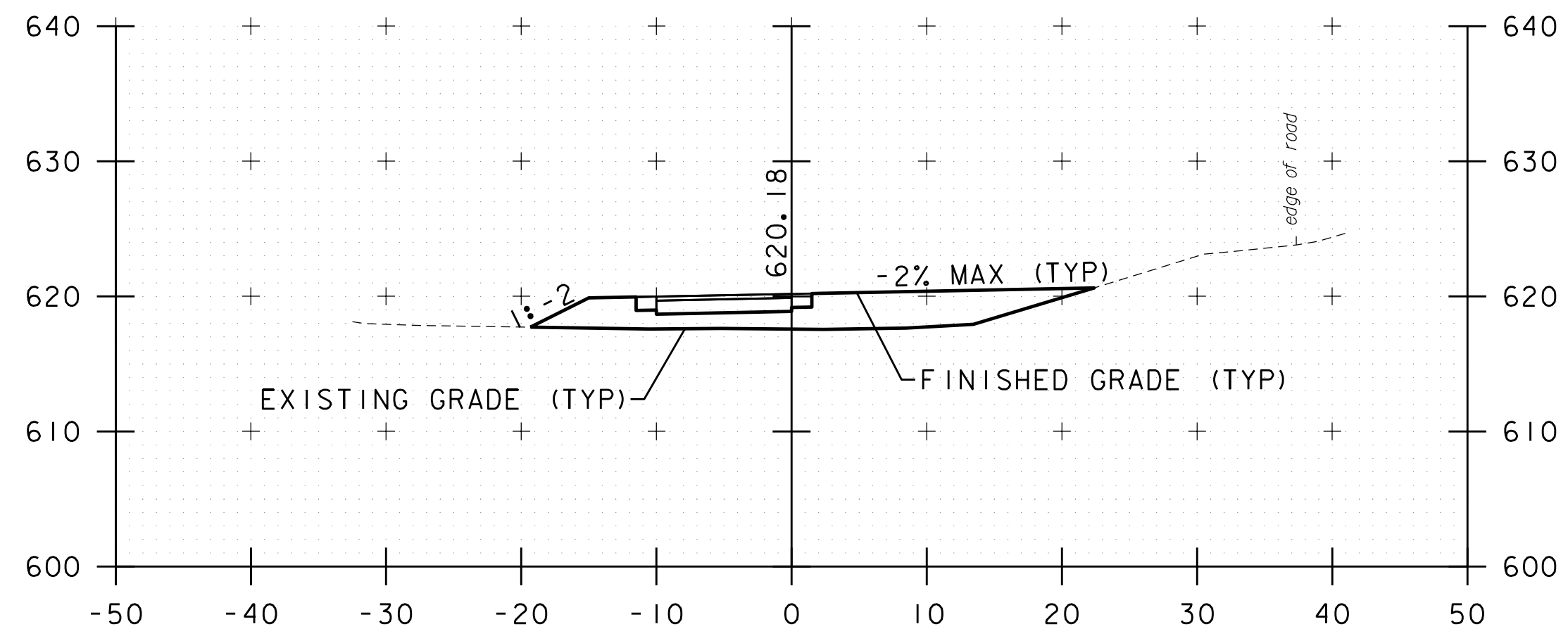


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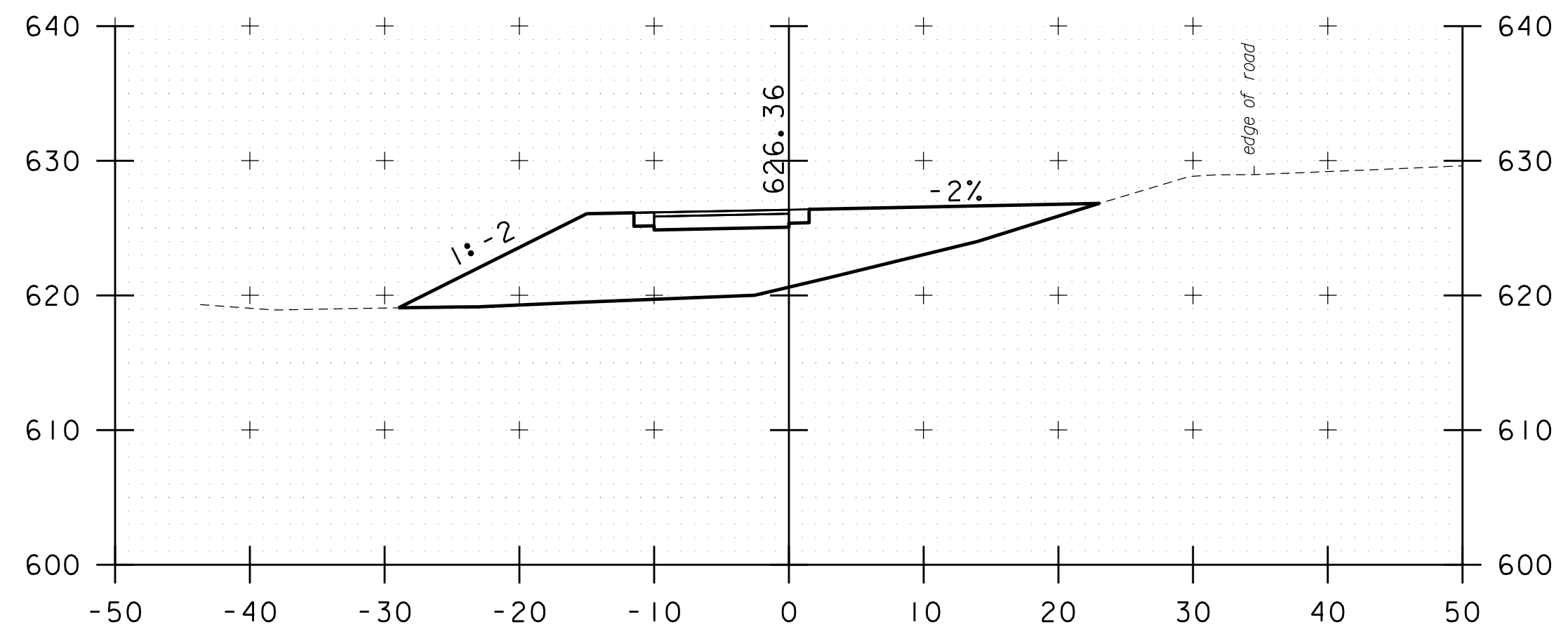


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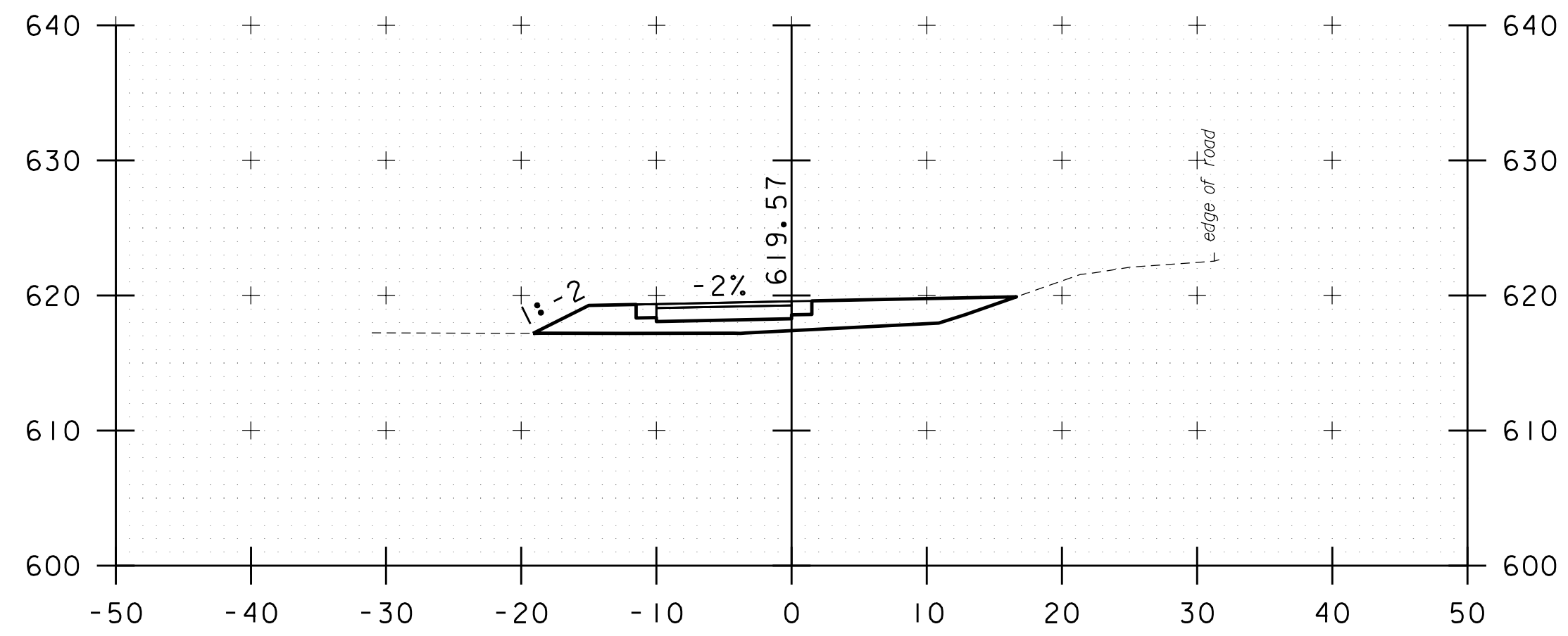
PROJECT NAME: KOCHER DRIVE	PLOT DATE: 10/1/2019
PROJECT NUMBER: STP SDWK (12) & STP BPI8 (14)	DRAWN BY: N. YOSKOWITZ
FILE NAME: zSTPSDWK12_rddet1.dgn	CHECKED BY: J. DOLMETSCH
PROJECT LEADER: J. DOLMETSCH	PAVEMENT MARKING DETAIL
DESIGNED BY: J. DOLMETSCH	SHEET 14 OF 29



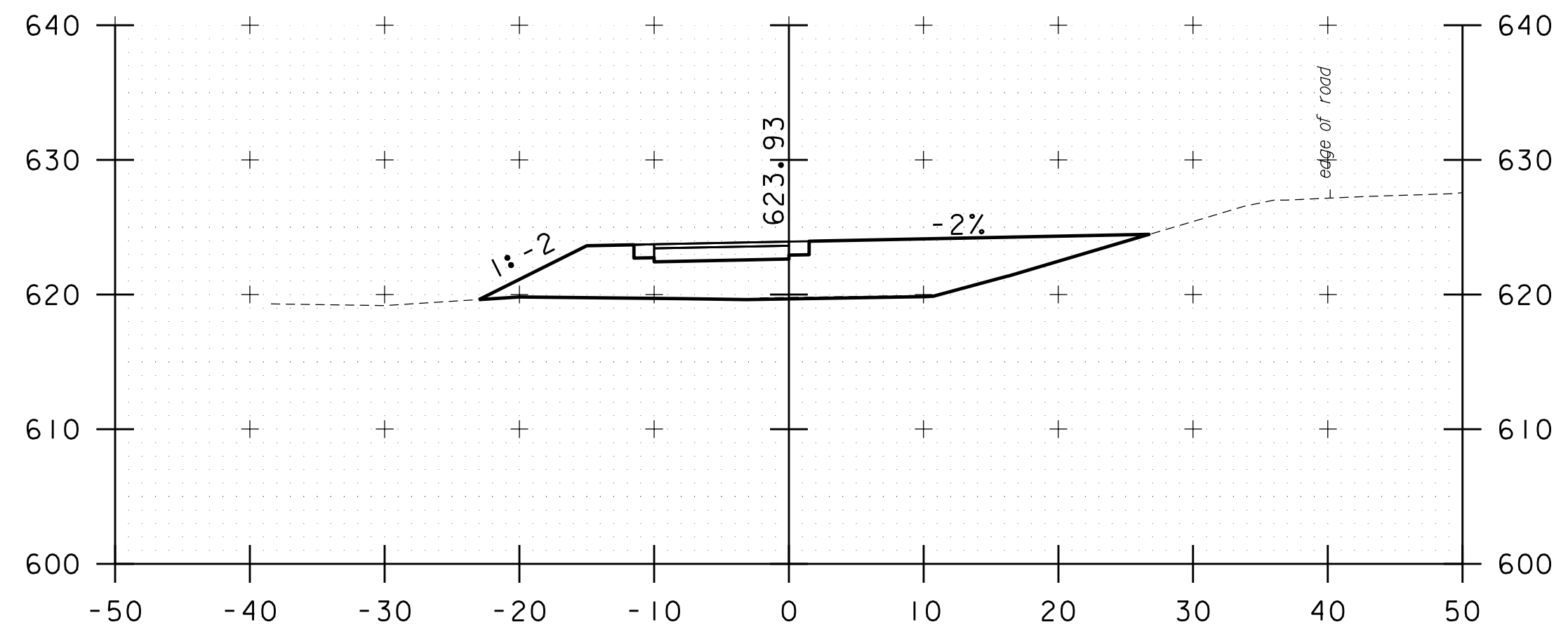
102+00



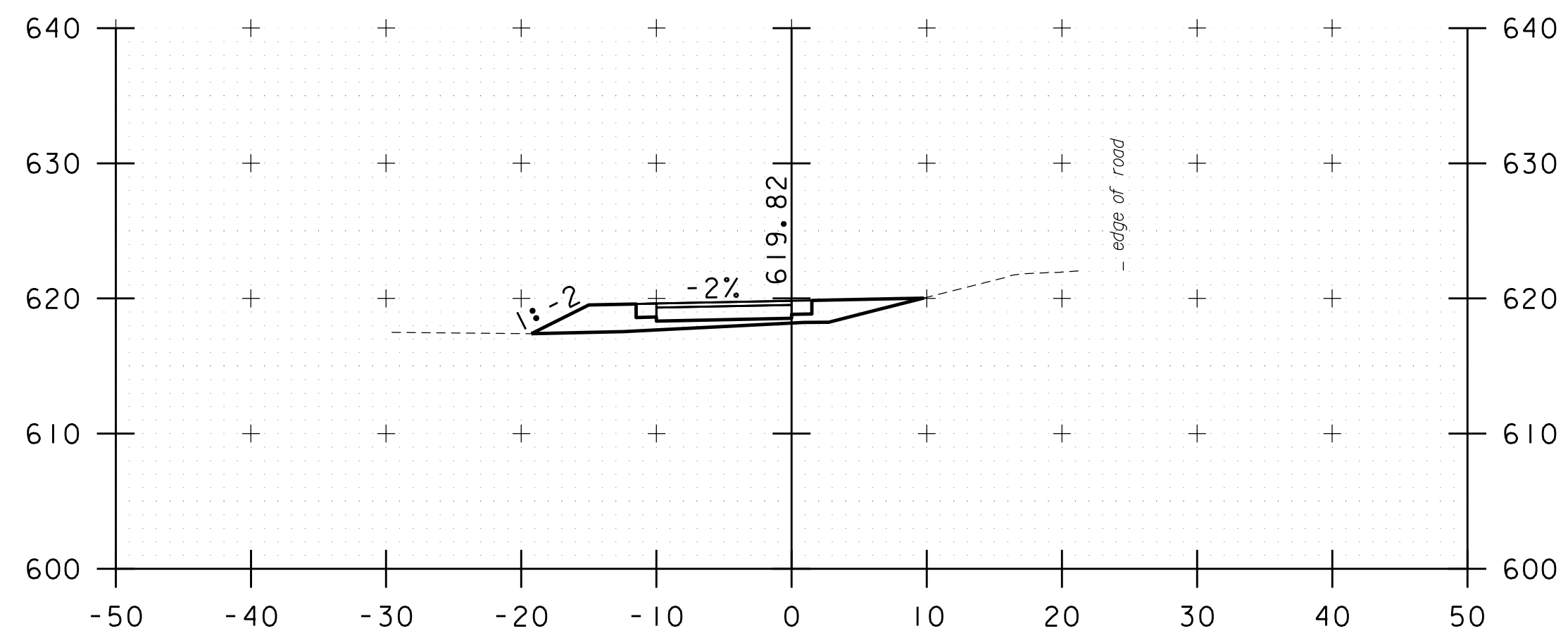
103+50



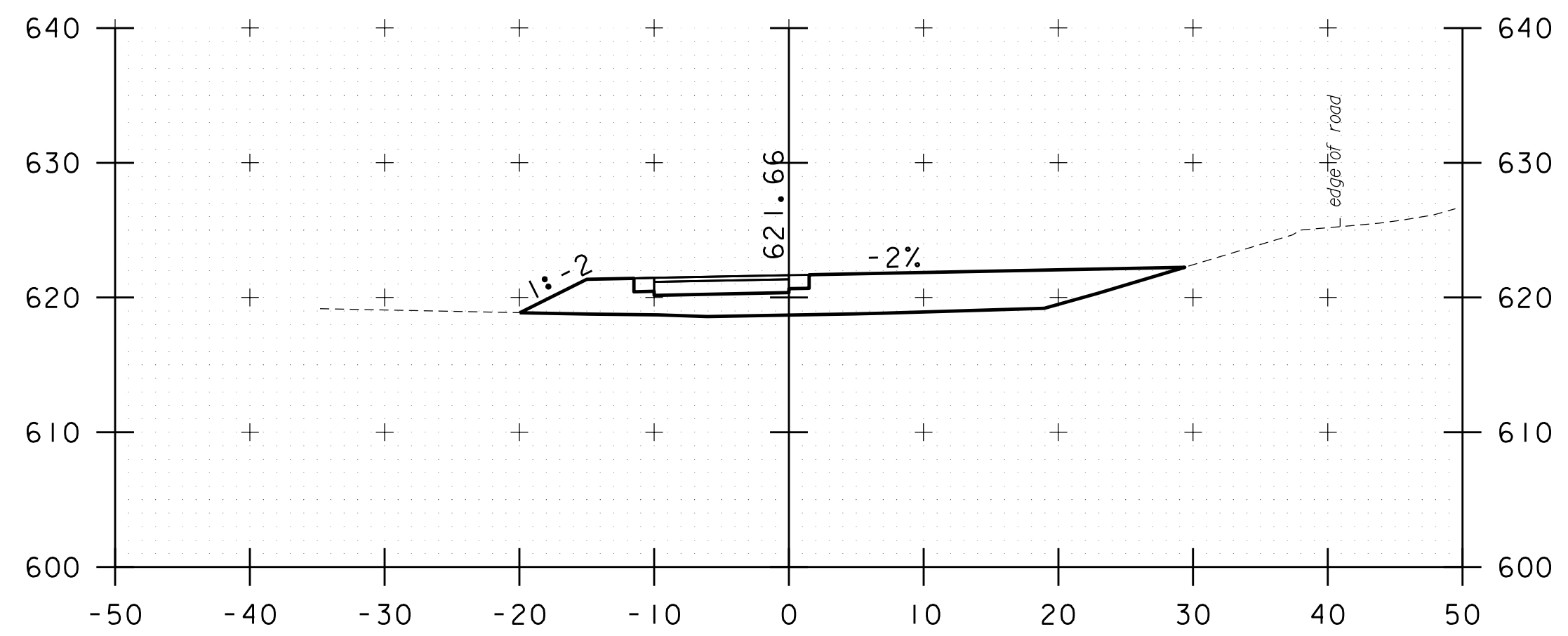
101+50



103+00



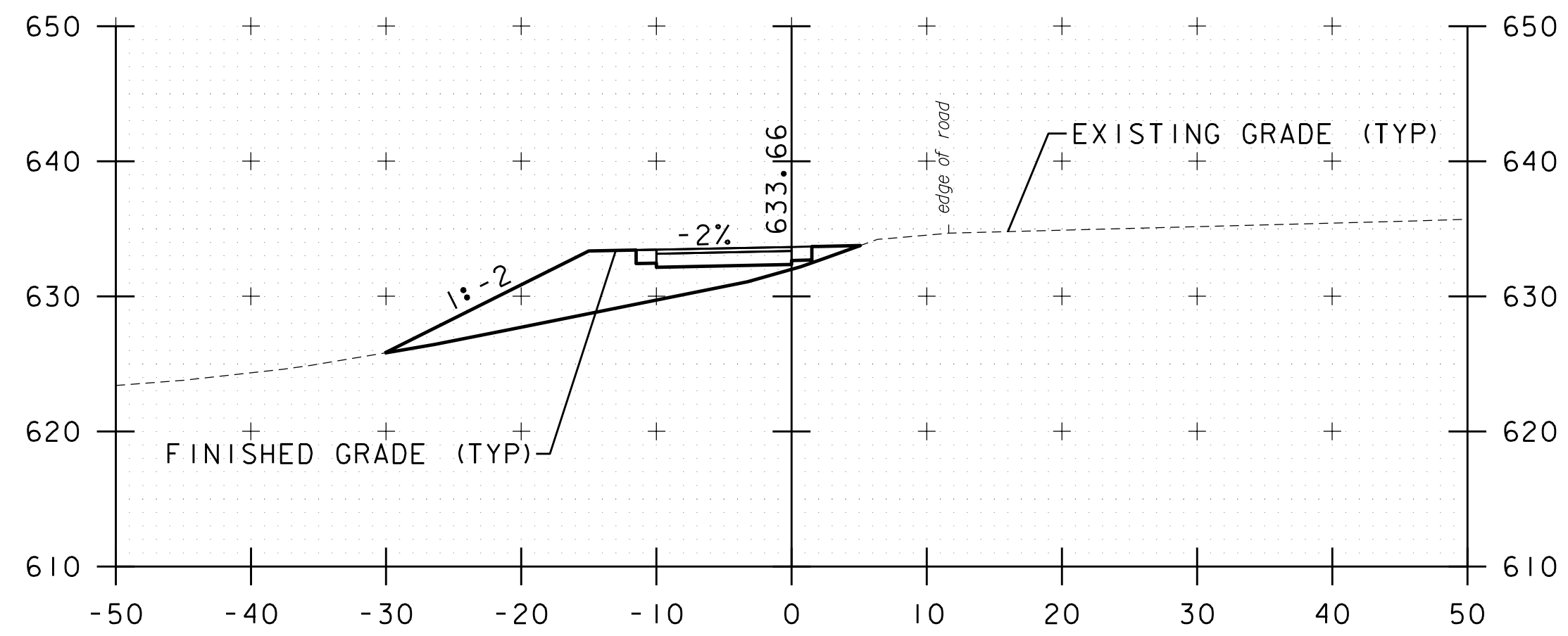
101+00



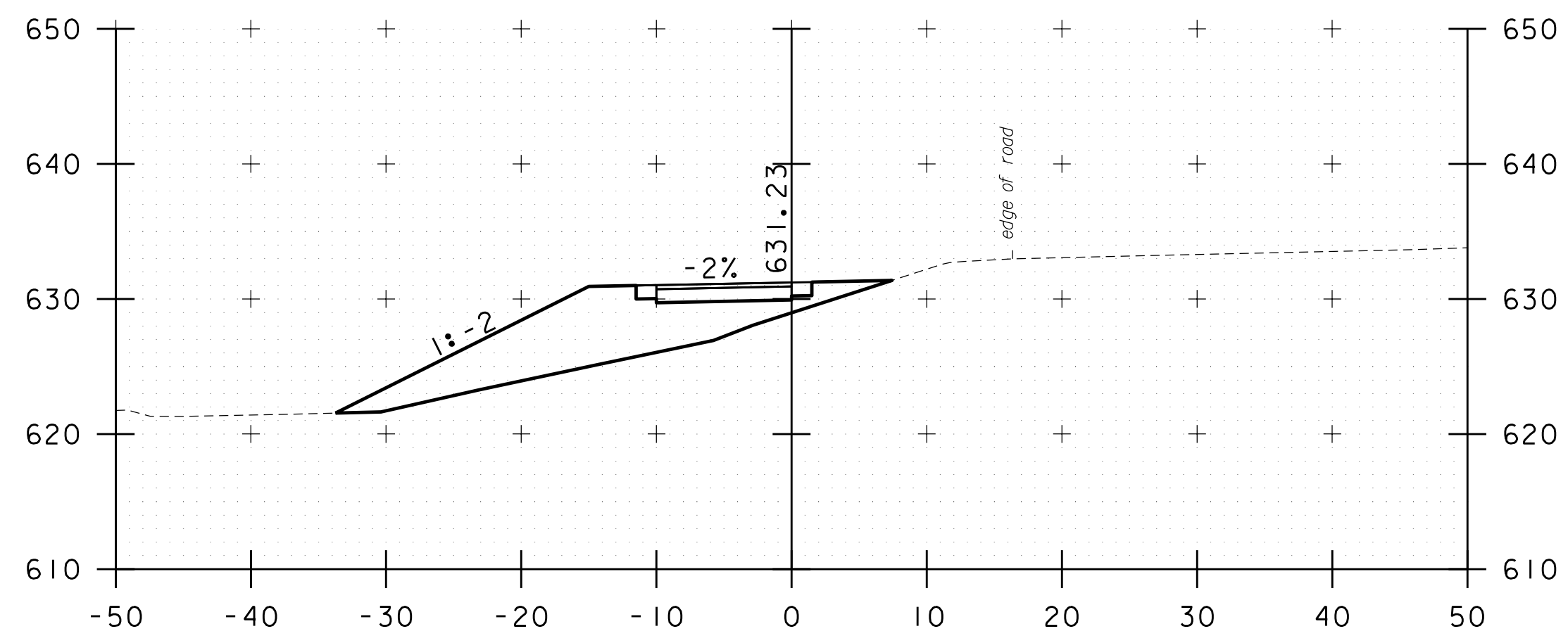
102+50

STA. 101+00 TO STA. 103+50

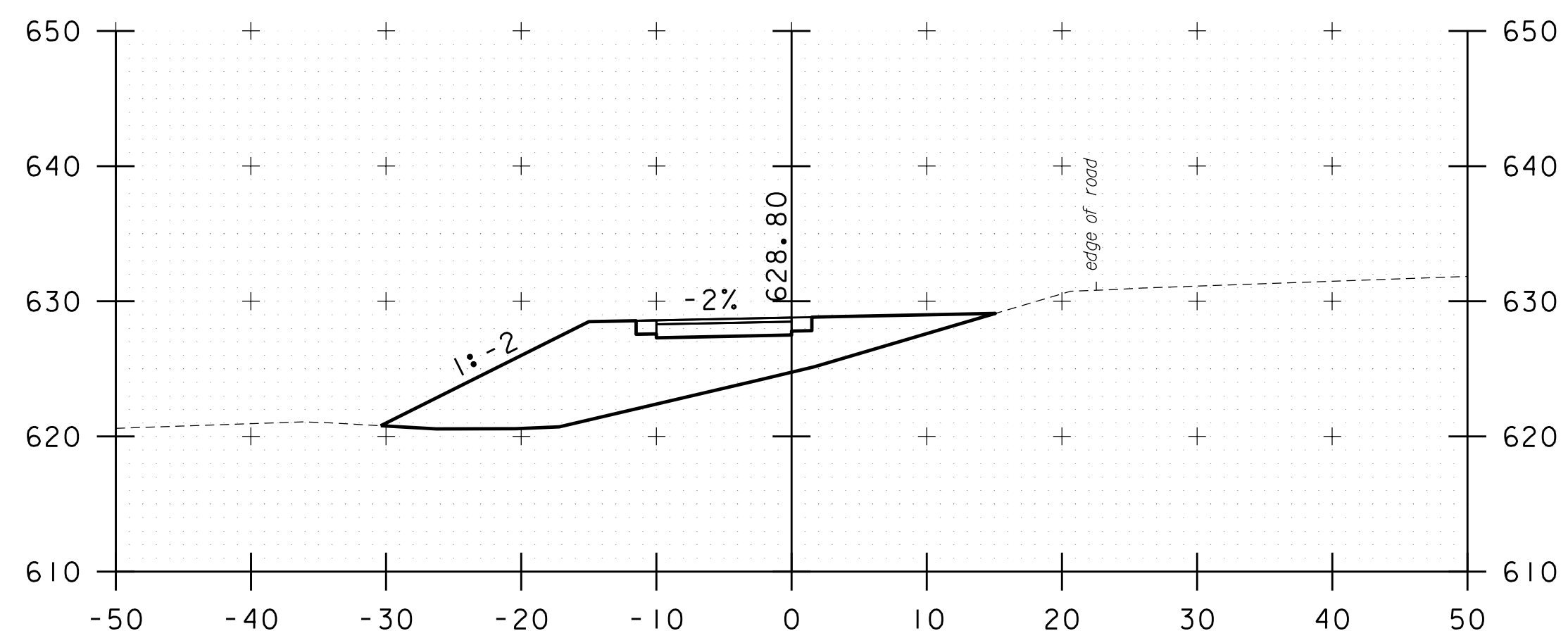
PROJECT NAME: KOCHER DRIVE	
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)	
FILE NAME: zSTPSDWK12.cs	PLOT DATE: 10/1/2019
PROJECT LEADER: J. DOLMETSCH	DRAWN BY: N. YOSKOWITZ
DESIGNED BY: J. DOLMETSCH	CHECKED BY: J. DOLMETSCH
CROSS SECTIONS	SHEET 15 OF 29



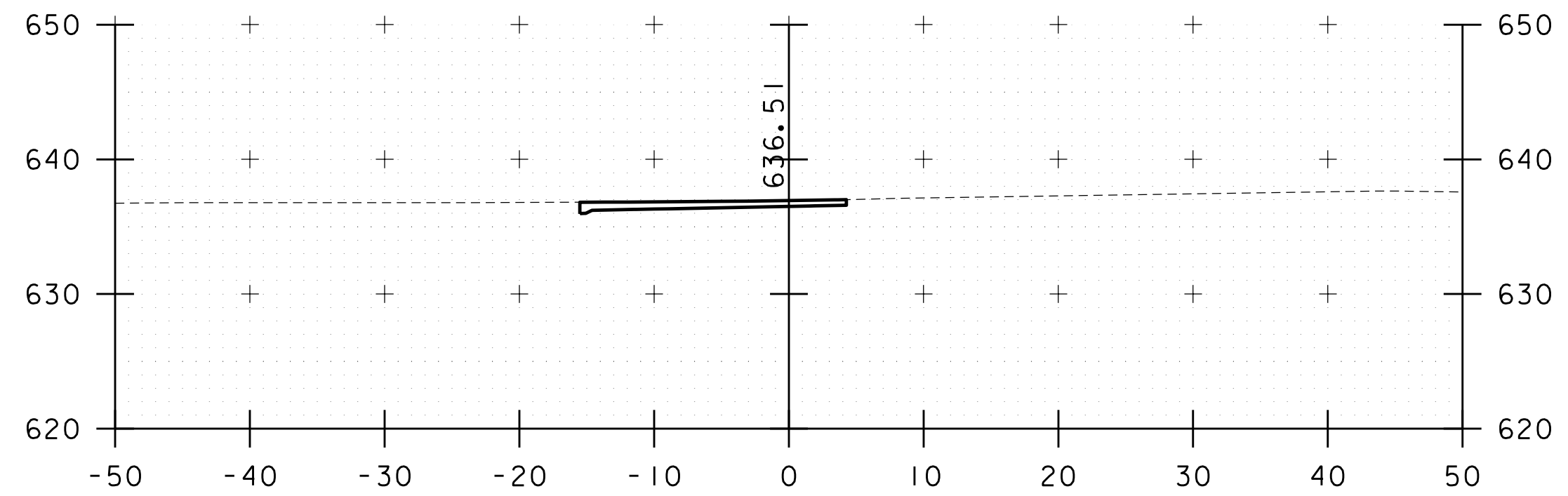
105+00



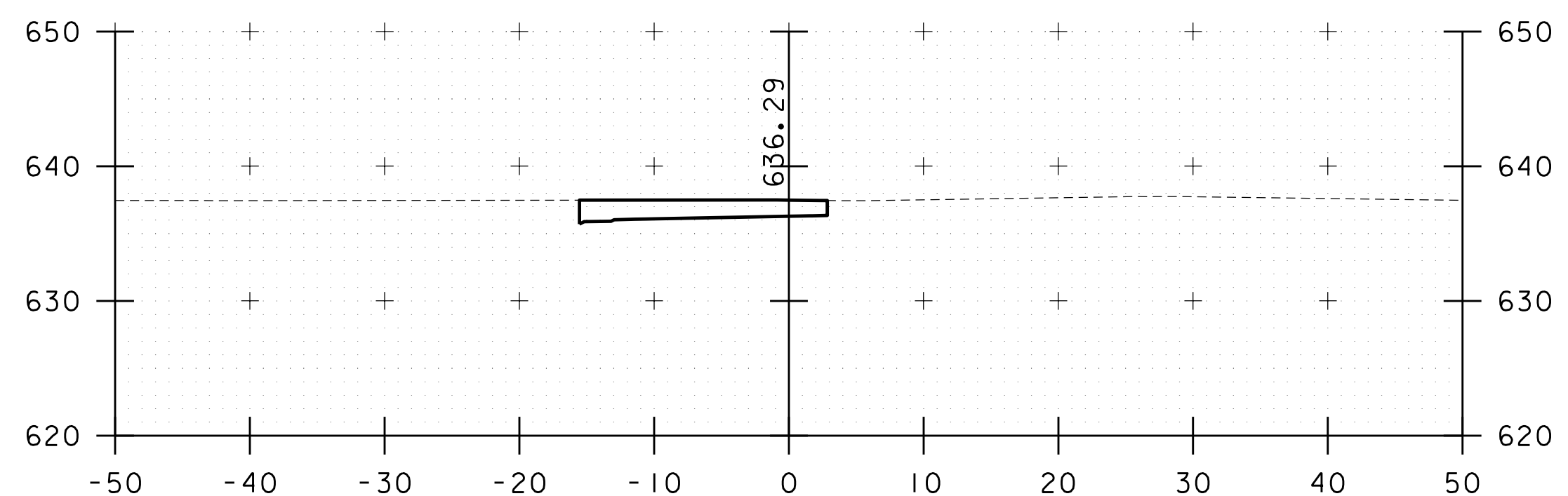
104+50



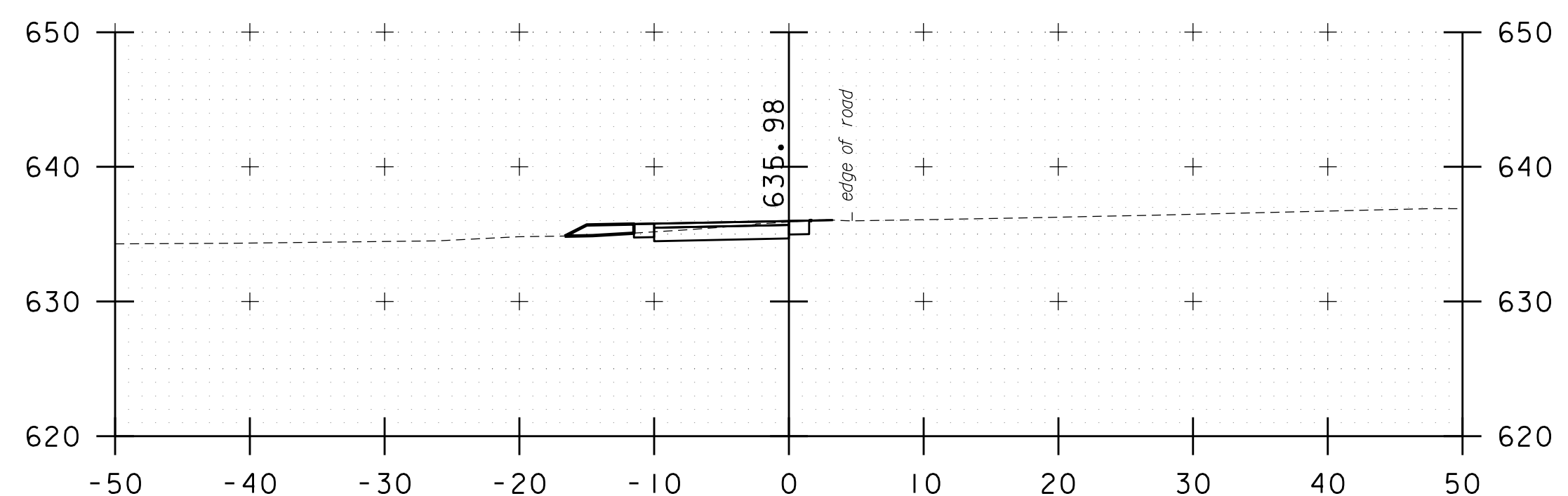
104+00



106+50



106+00

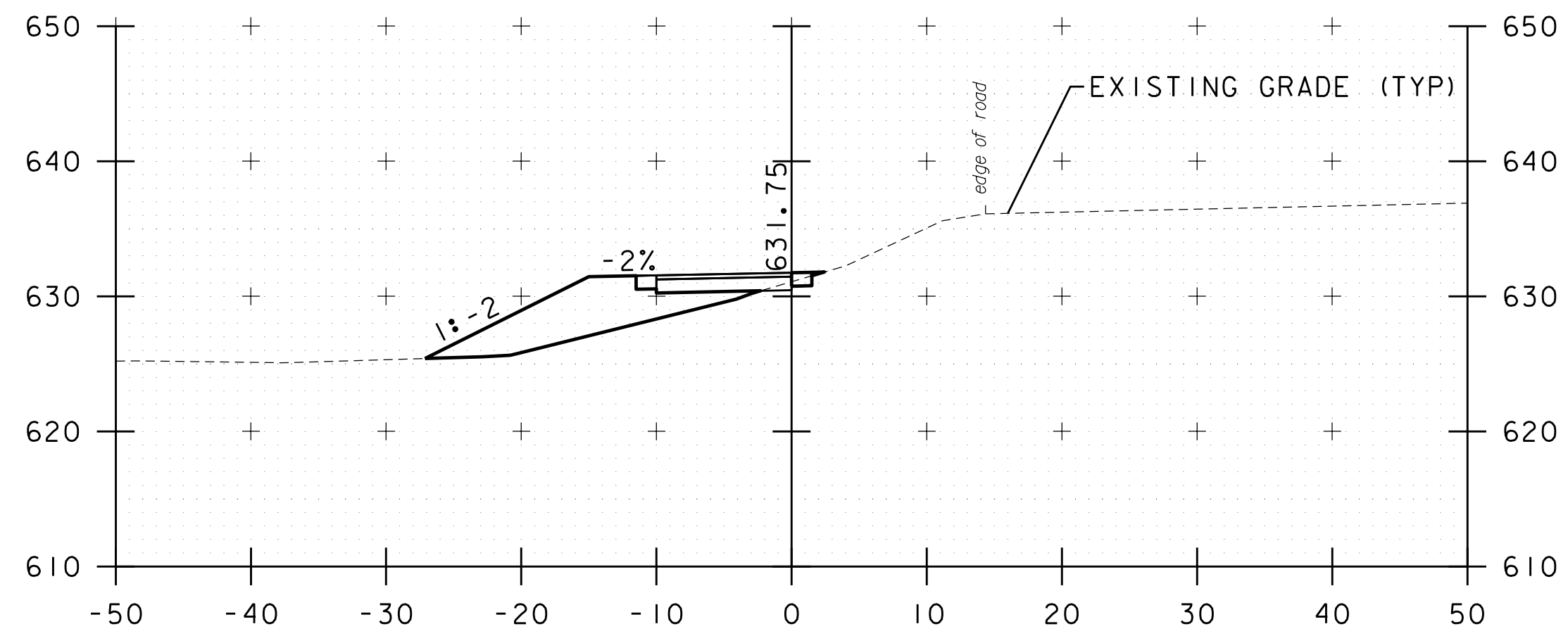


105+50

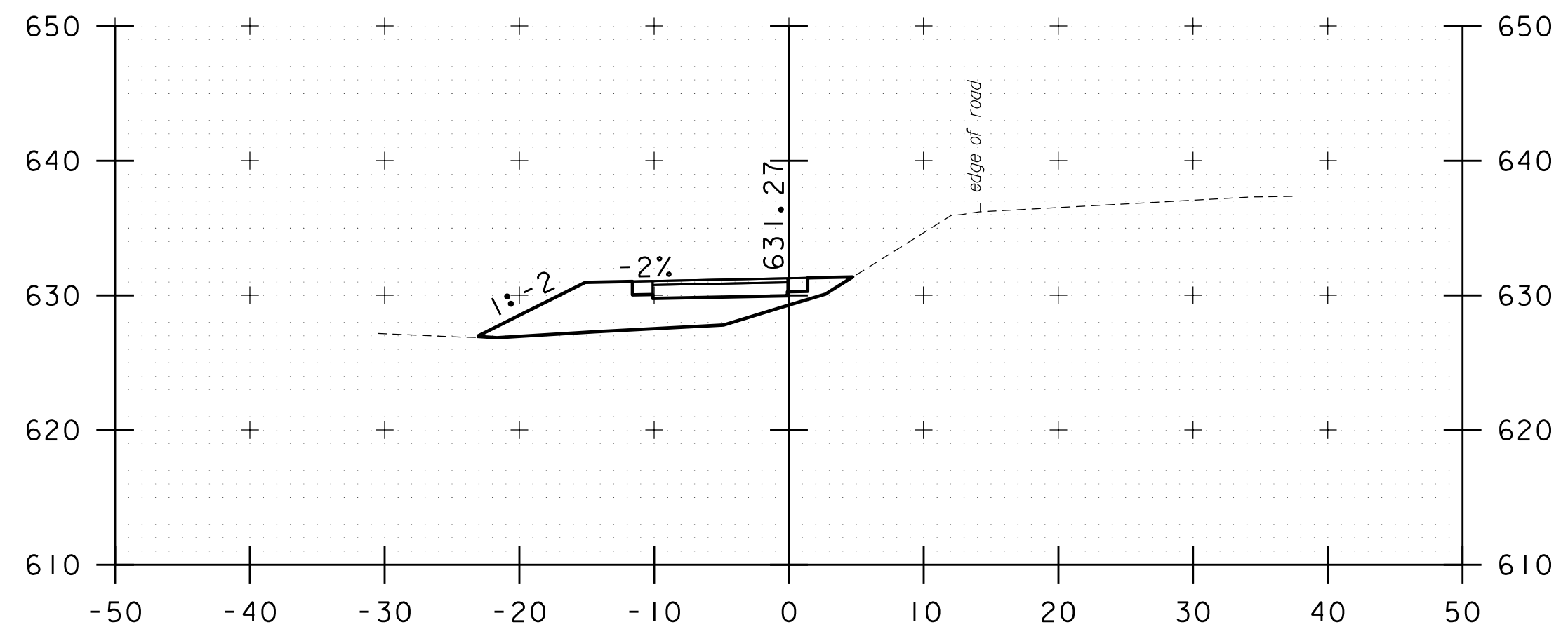
STA. 104+00 TO STA. 106+50

PROJECT NAME:	KOCHER DRIVE	FILE NAME:	zSTPSDWK12.cs	PLOT DATE:	10/1/2019
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)	PROJECT LEADER:	J. DOLMETSCH	DRAWN BY:	N. YOSKOWITZ
		DESIGNED BY:	J. DOLMETSCH	CHECKED BY:	J. DOLMETSCH
		CROSS SECTIONS		SHEET	16 OF 29

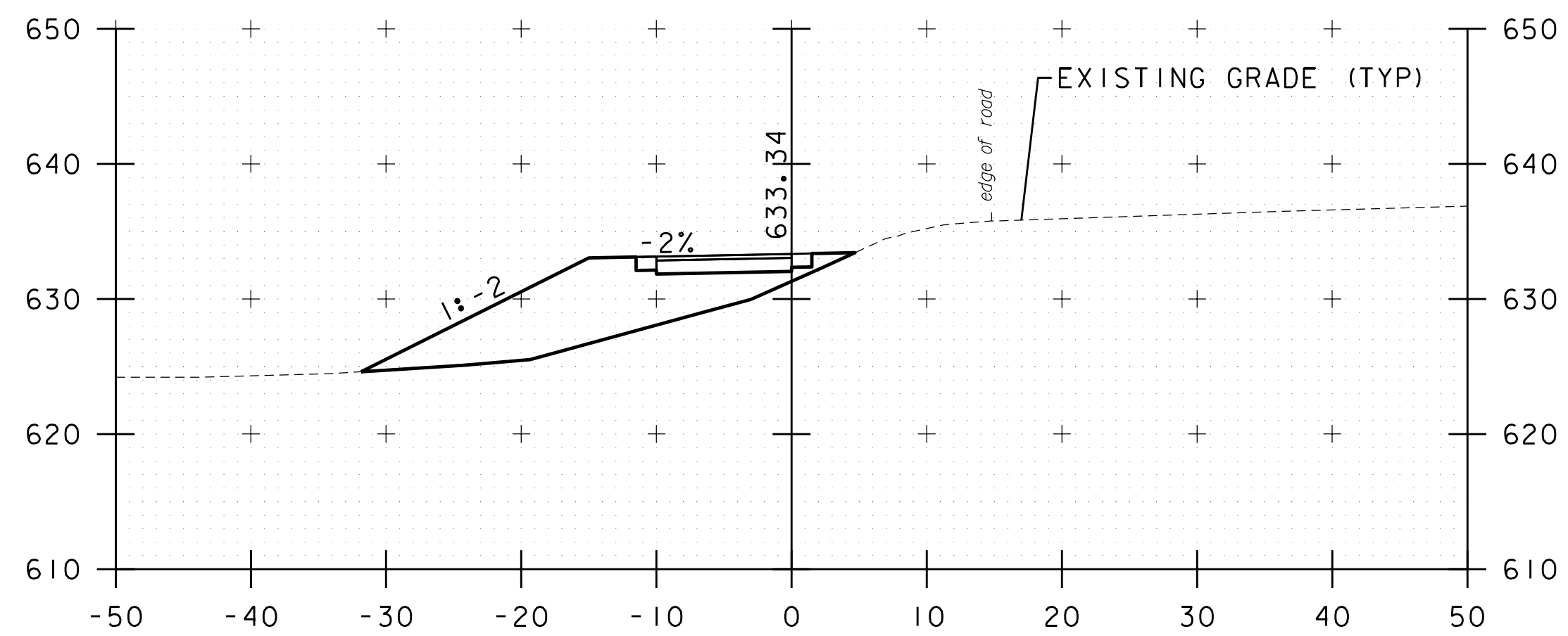




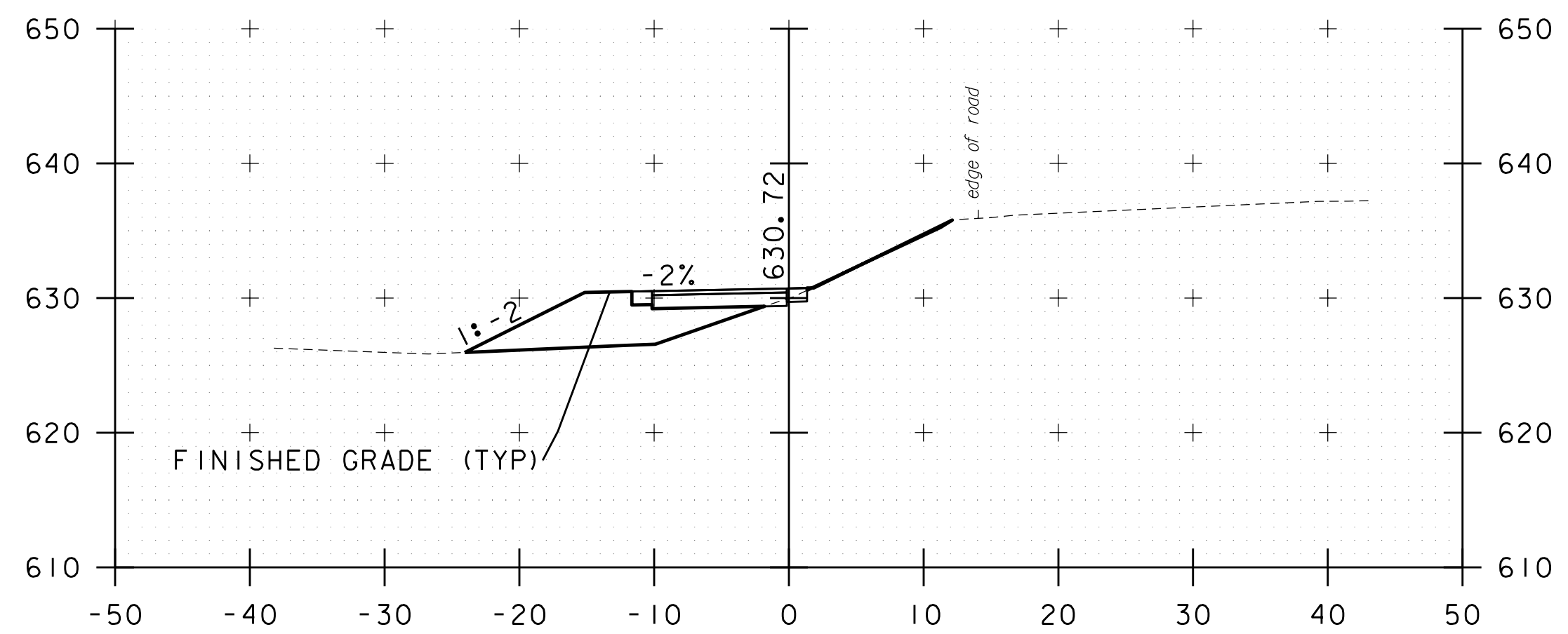
108+00



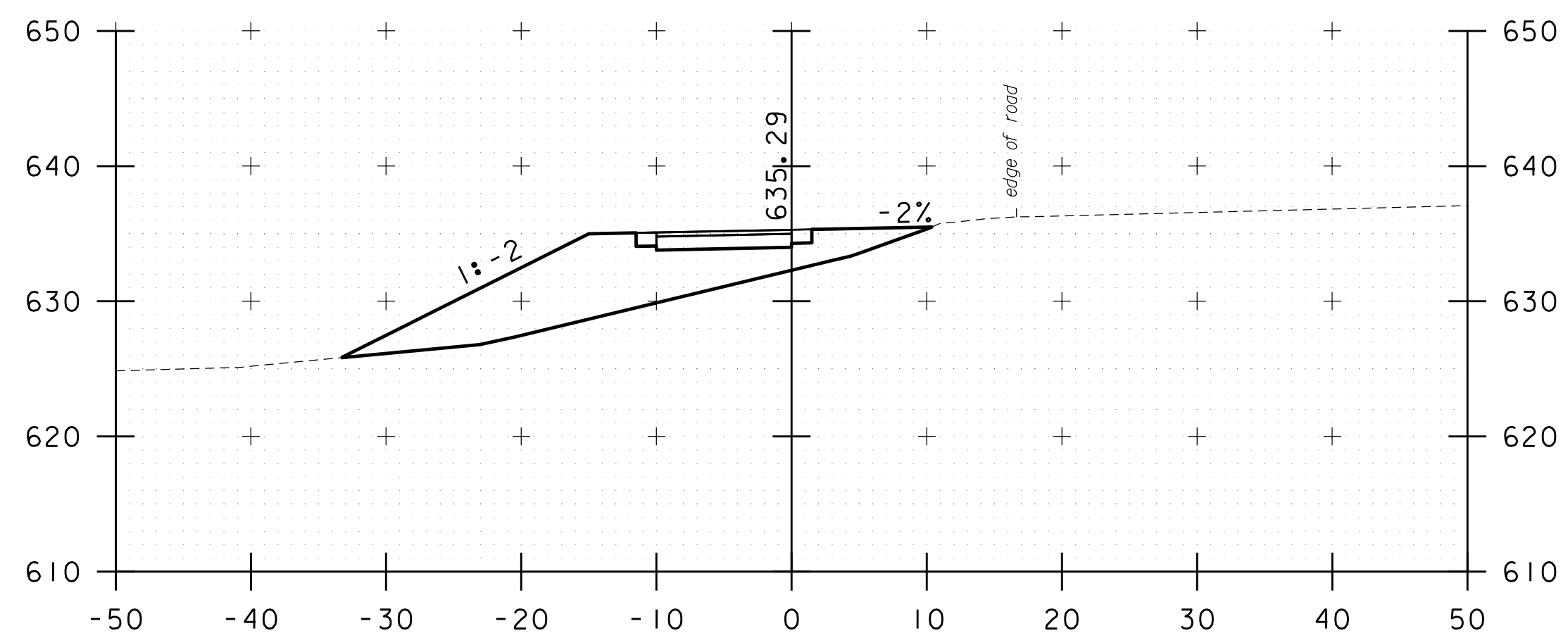
109+50



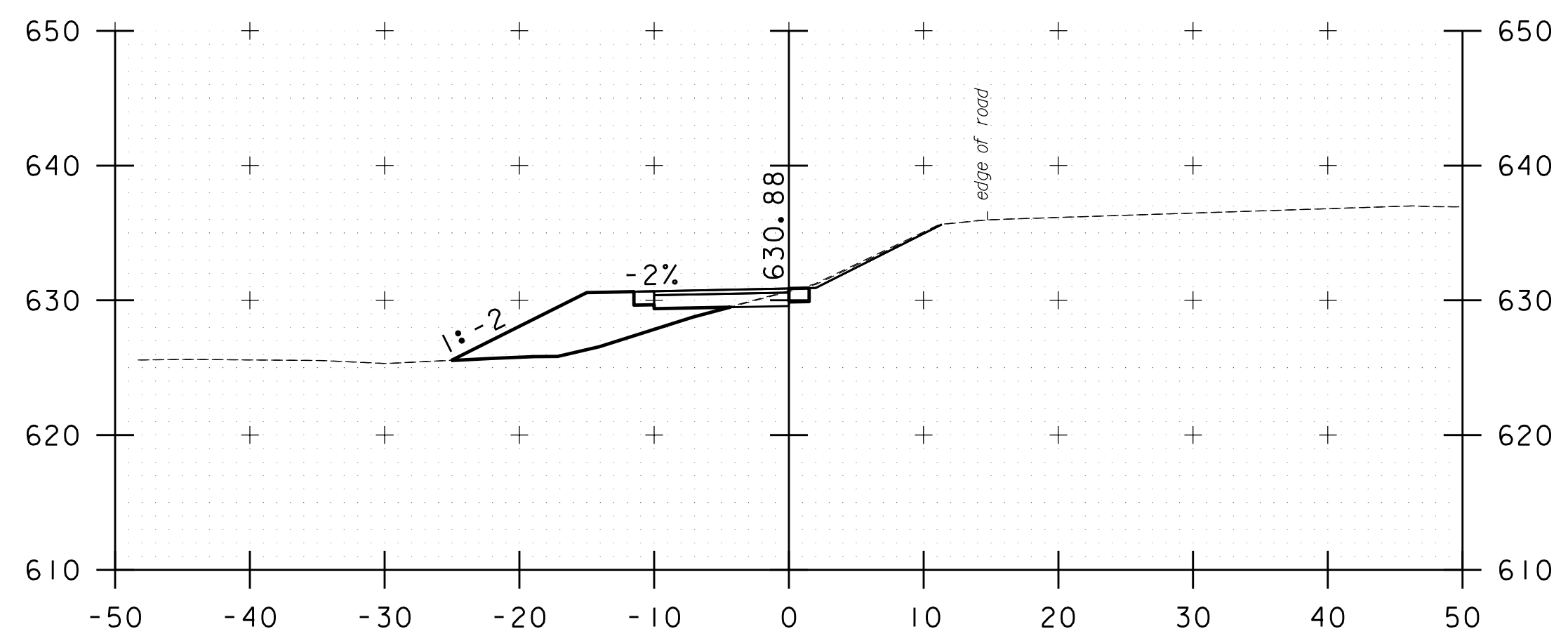
107+50



109+00



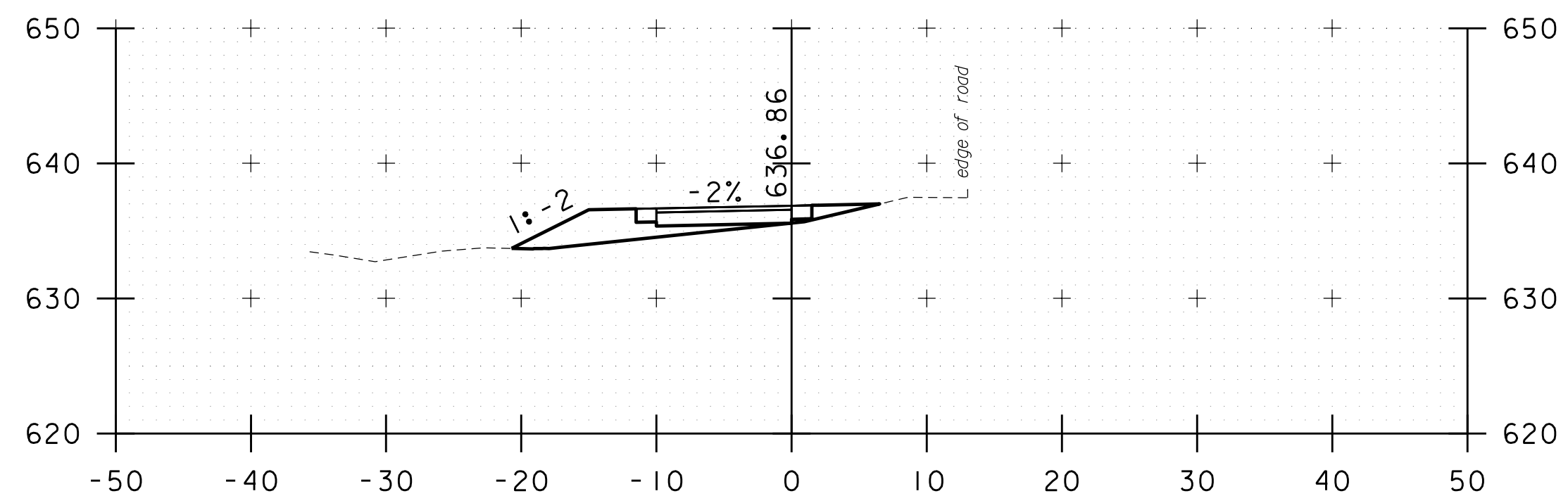
107+00



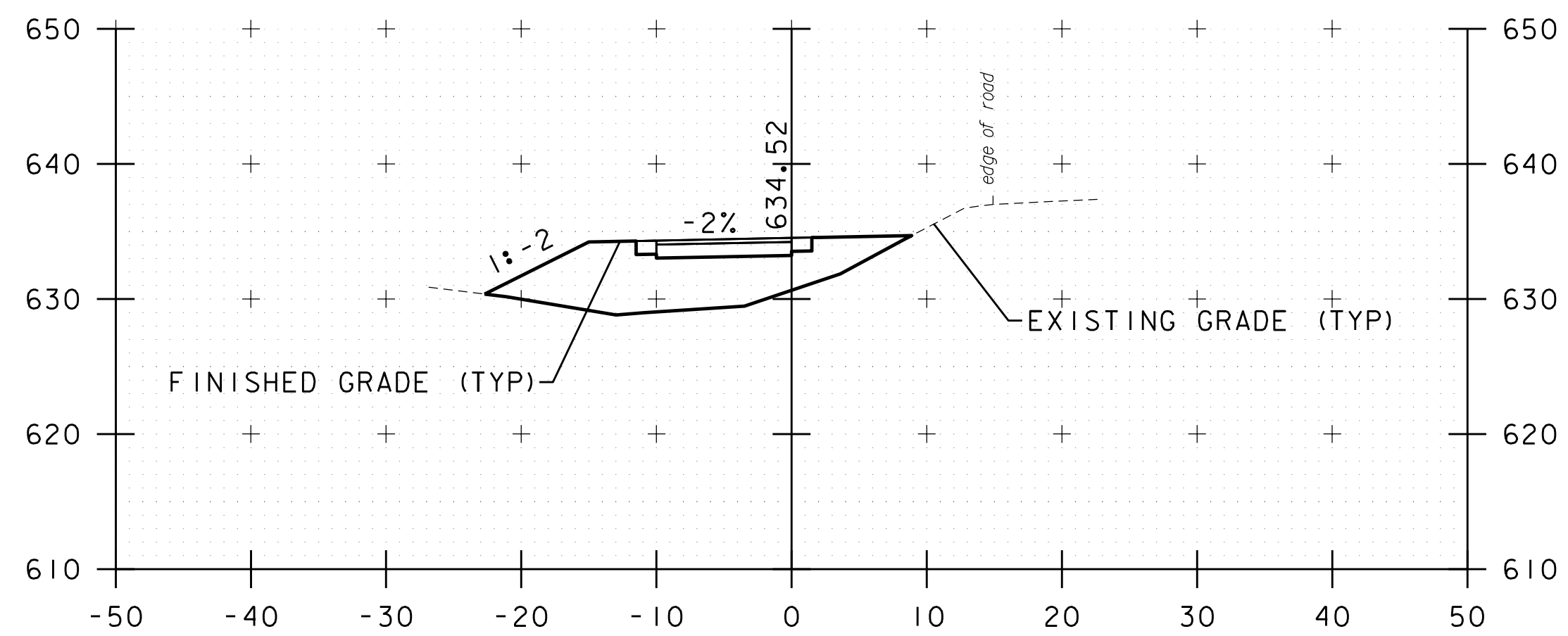
108+50

STA. 107+00 TO STA. 109+50

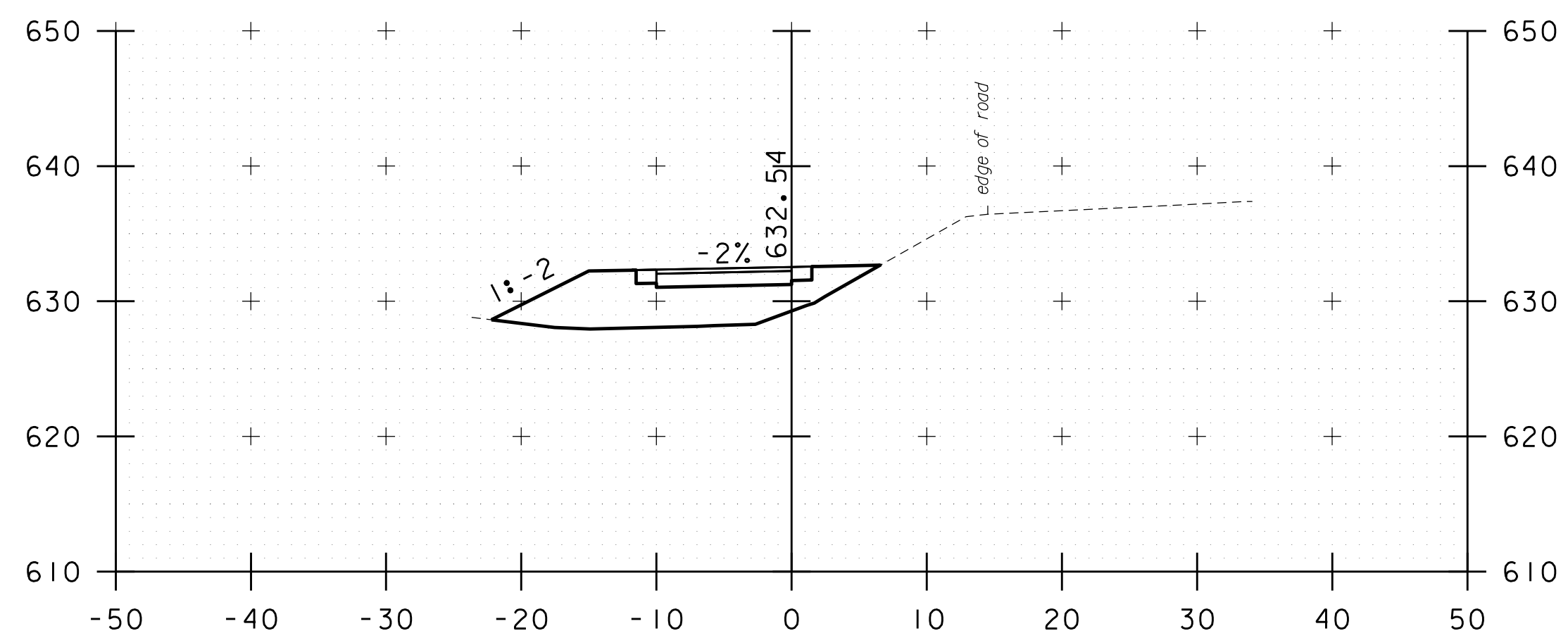
PROJECT NAME:	KOCHER DRIVE	PLOT DATE:	10/1/2019
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)	DRAWN BY:	N. YOSKOWITZ
FILE NAME:	zSTPSDWK12.cs	CHECKED BY:	J. DOLMETSCH
PROJECT LEADER:	J. DOLMETSCH	SHEET	17 OF 29
DESIGNED BY:	J. DOLMETSCH	CROSS SECTIONS	



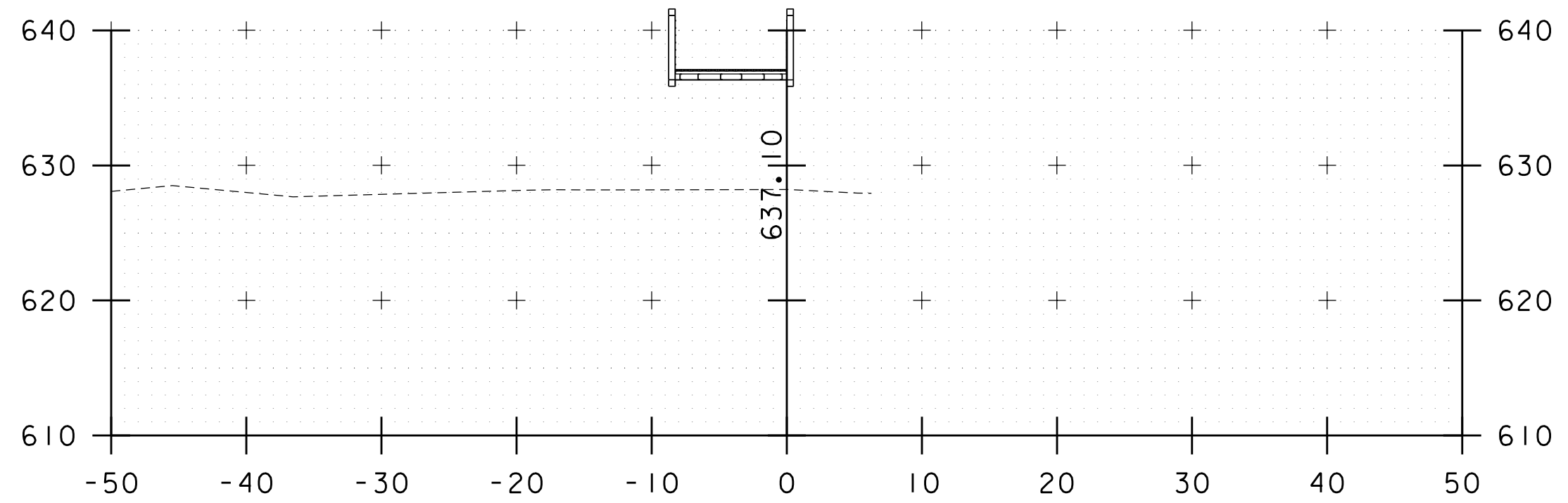
111+00



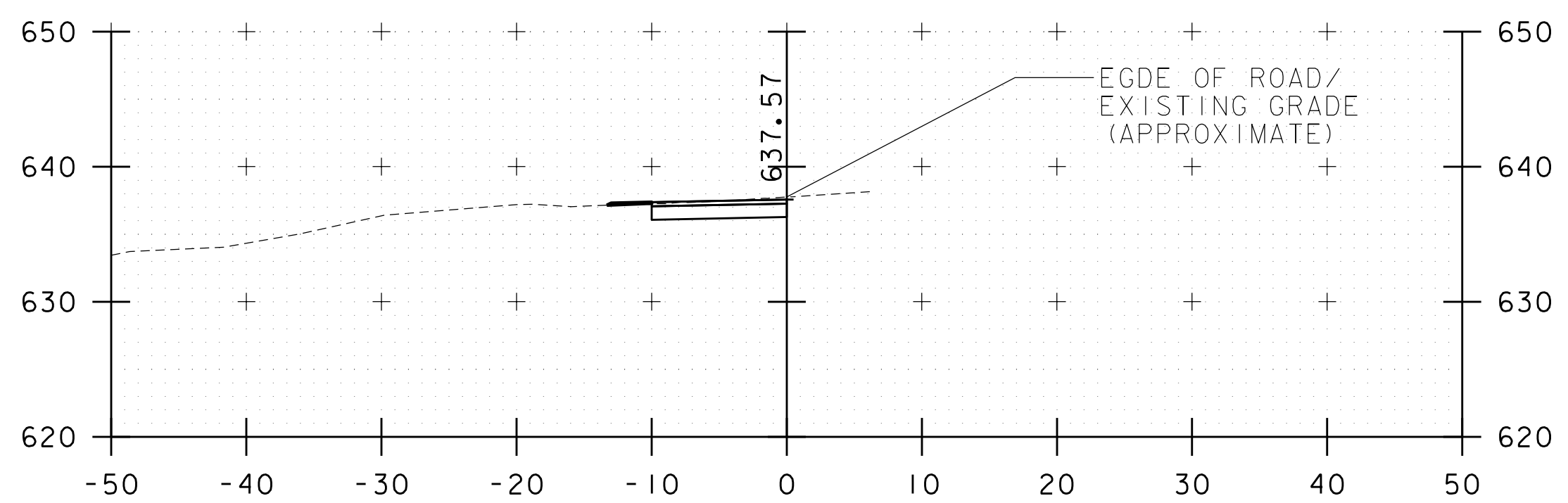
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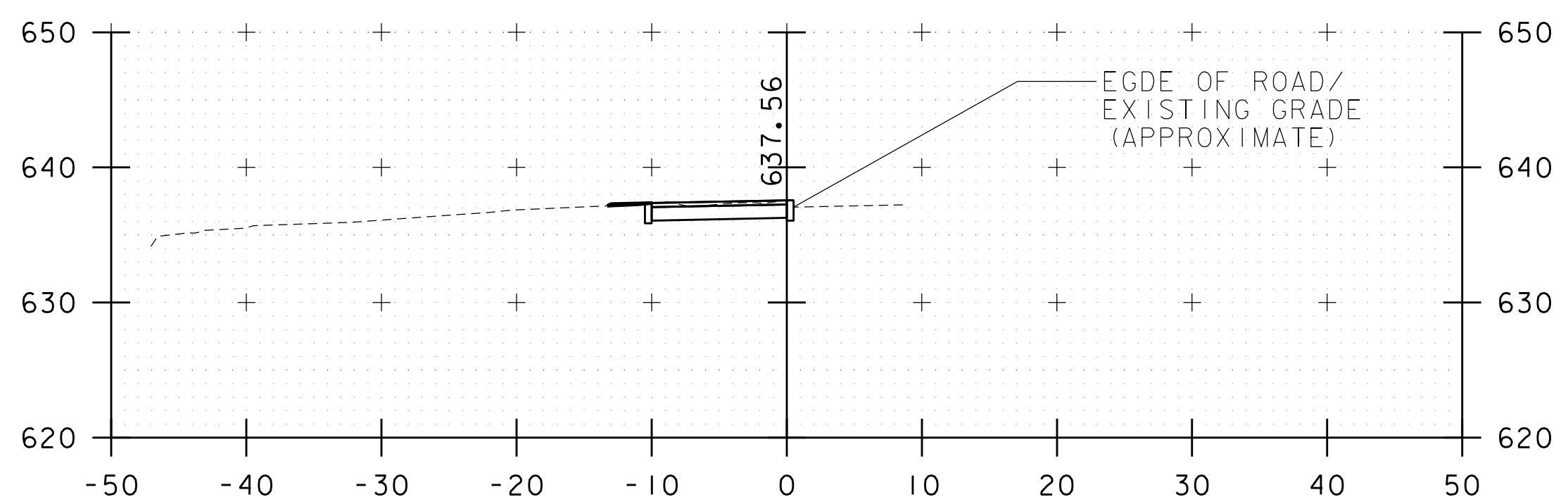
110+00



112+50



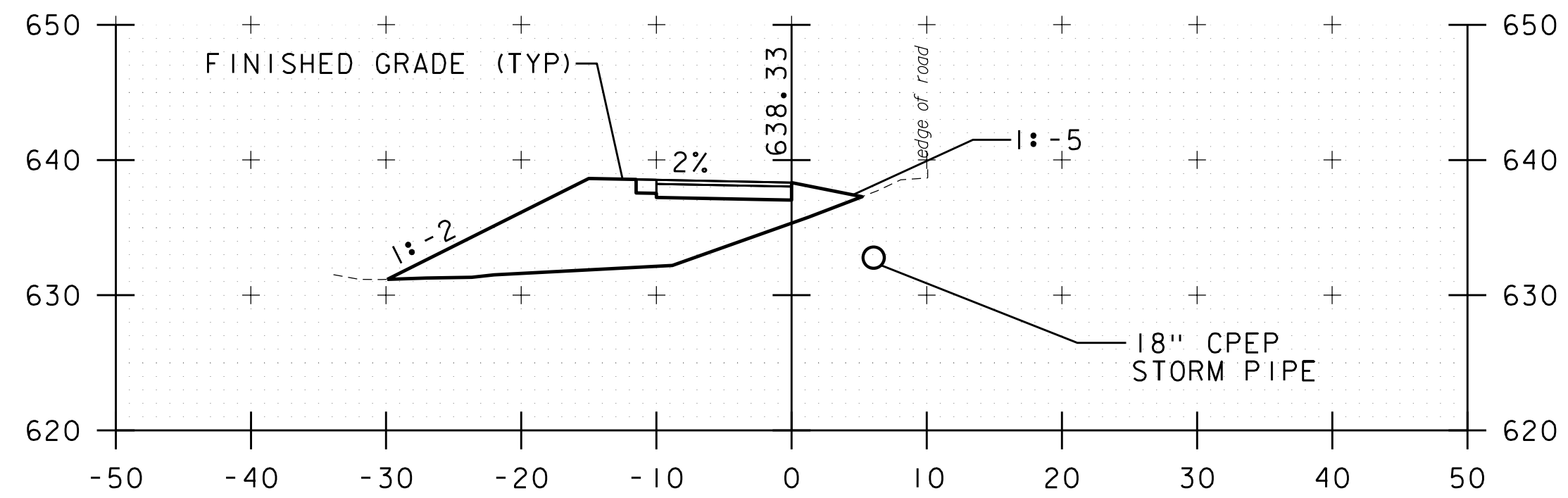
112+00



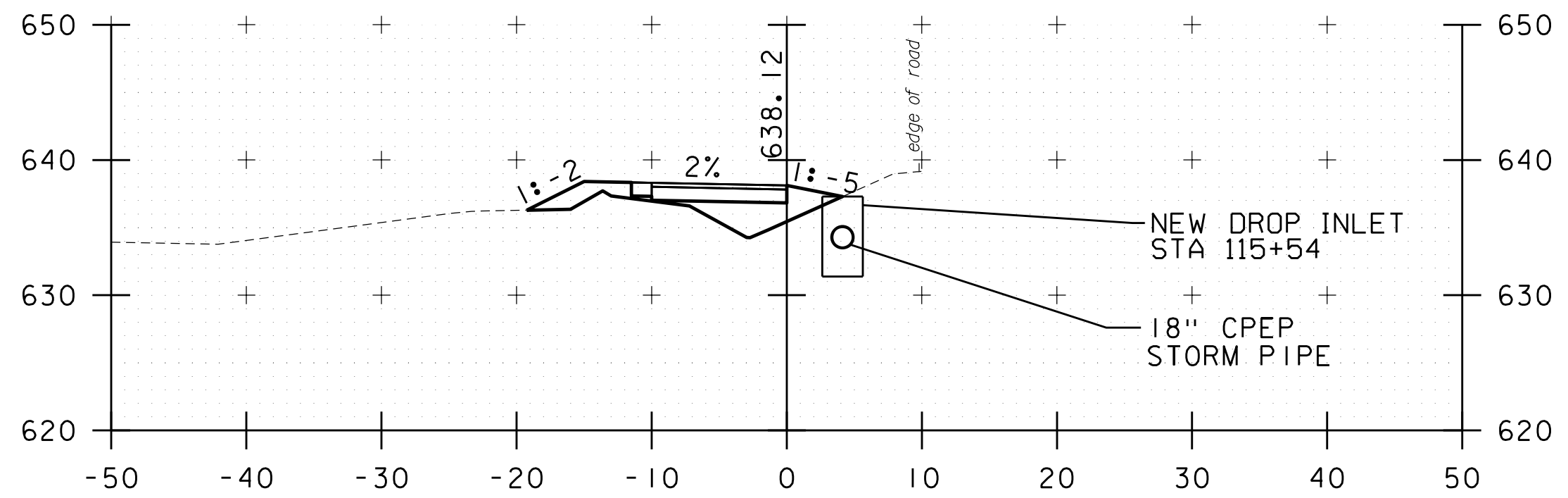
111+50

STA. 110+00 TO STA. 112+50

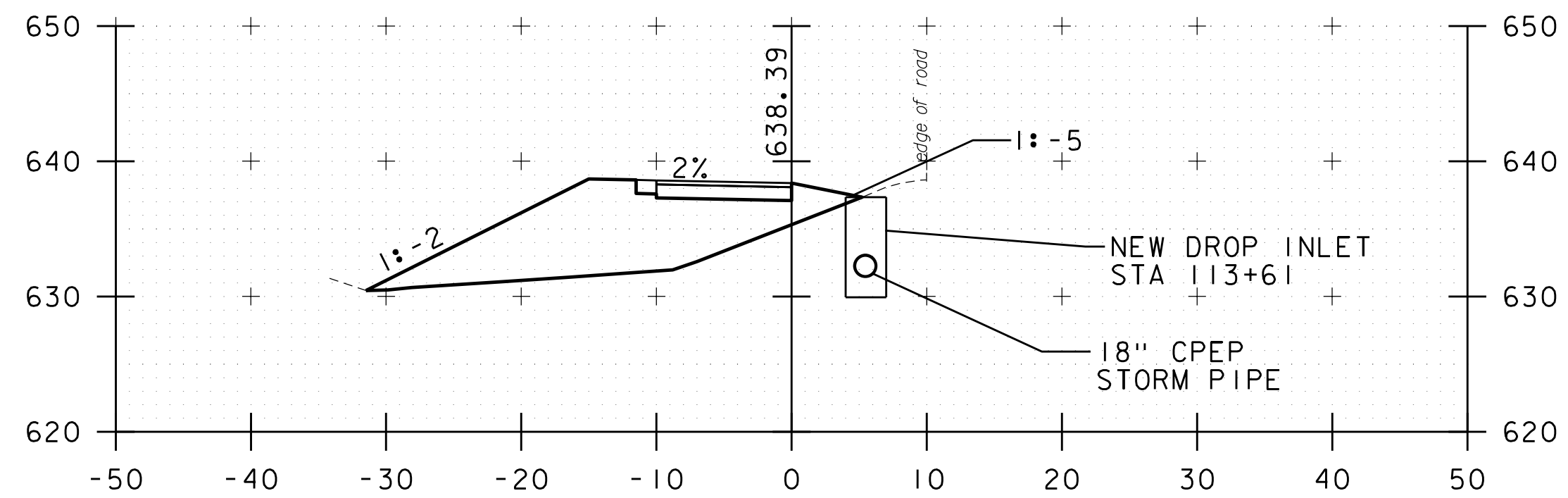
PROJECT NAME:	KOCHER DRIVE	FILE NAME:	zSTPSDWK12.cs	PLOT DATE:	10/1/2019
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)	PROJECT LEADER:	J. DOLMETSCH	DRAWN BY:	N. YOSKOWITZ
		DESIGNED BY:	J. DOLMETSCH	CHECKED BY:	J. DOLMETSCH
		CROSS SECTIONS		SHEET	18 OF 29



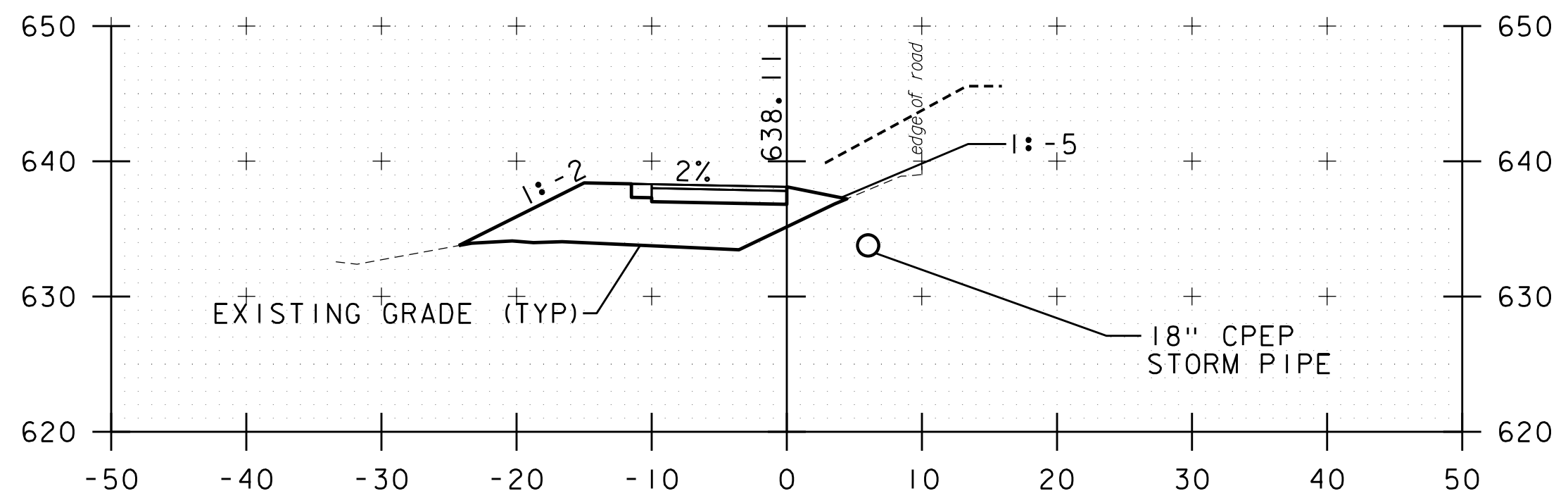
114+00



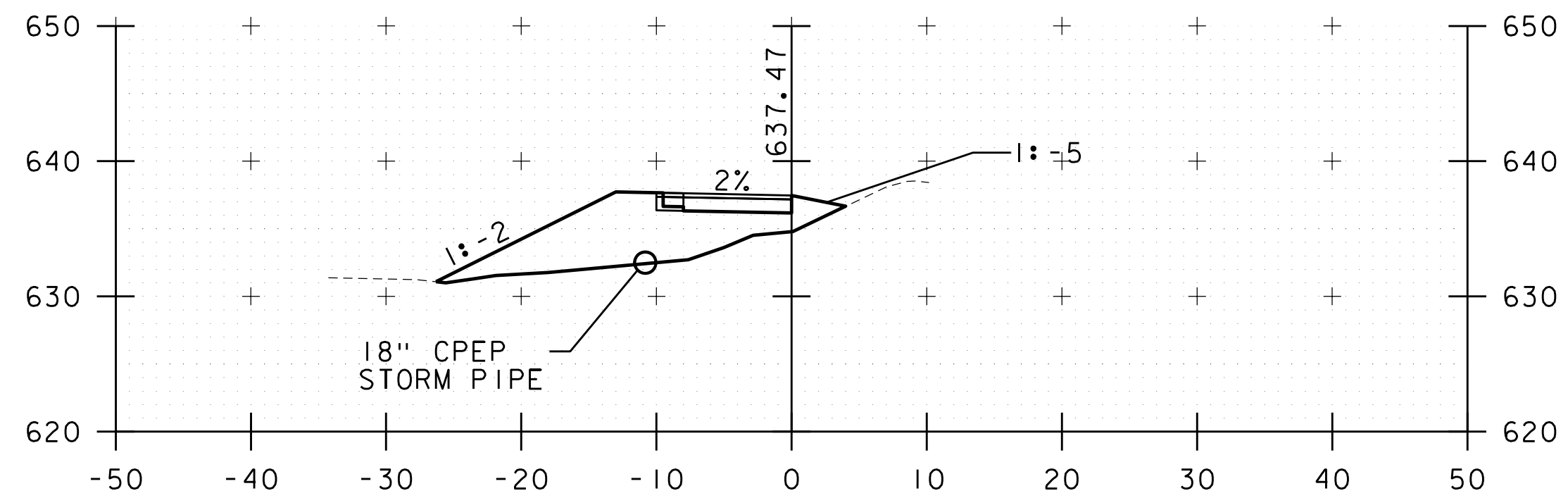
115+50



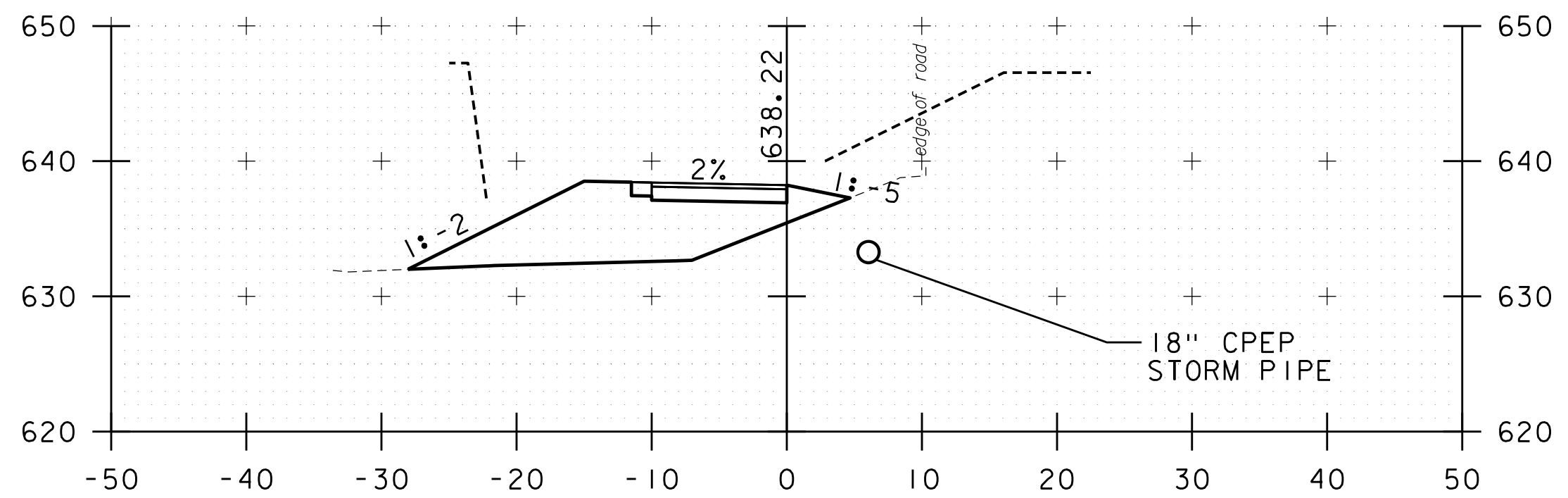
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115+00



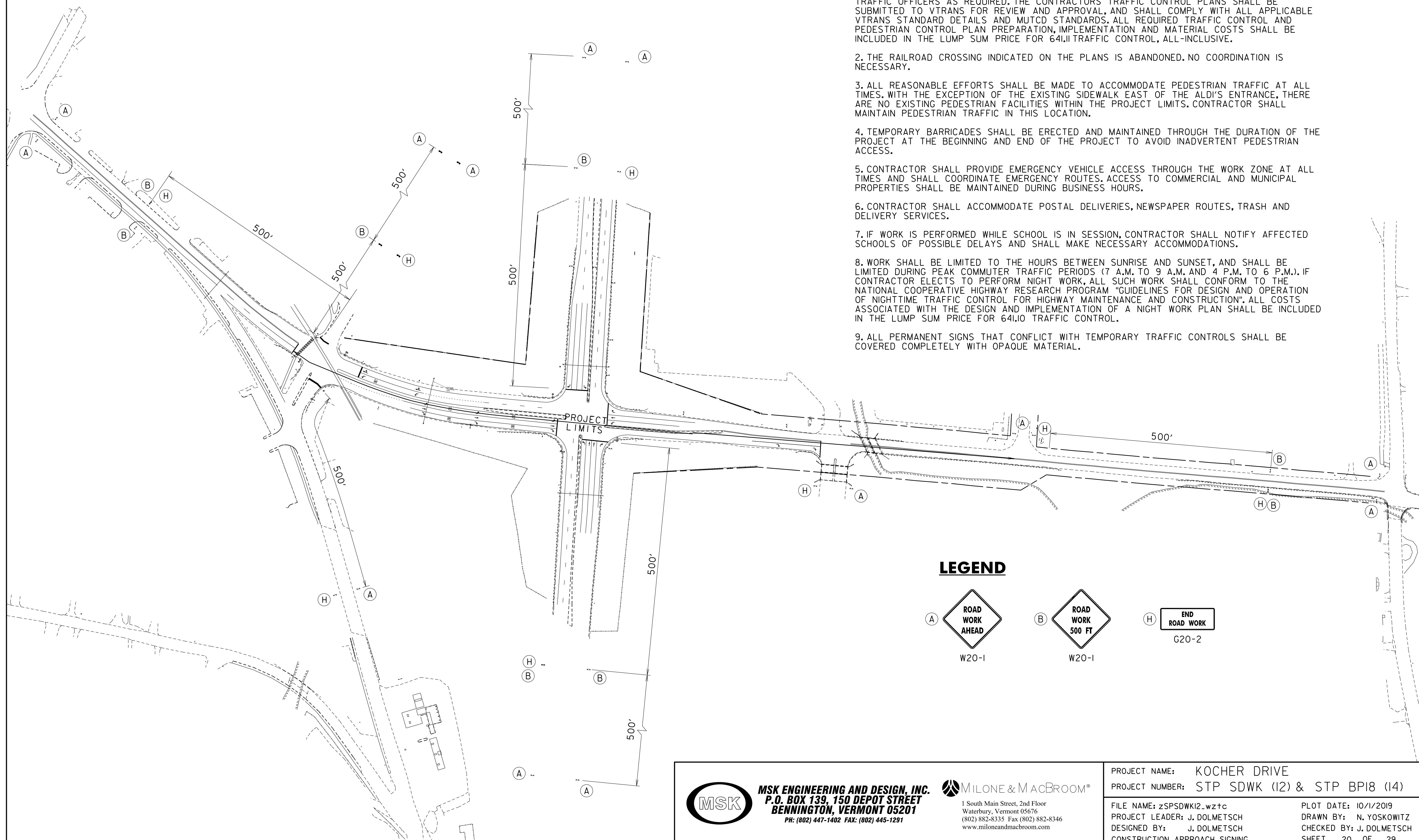
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114+50

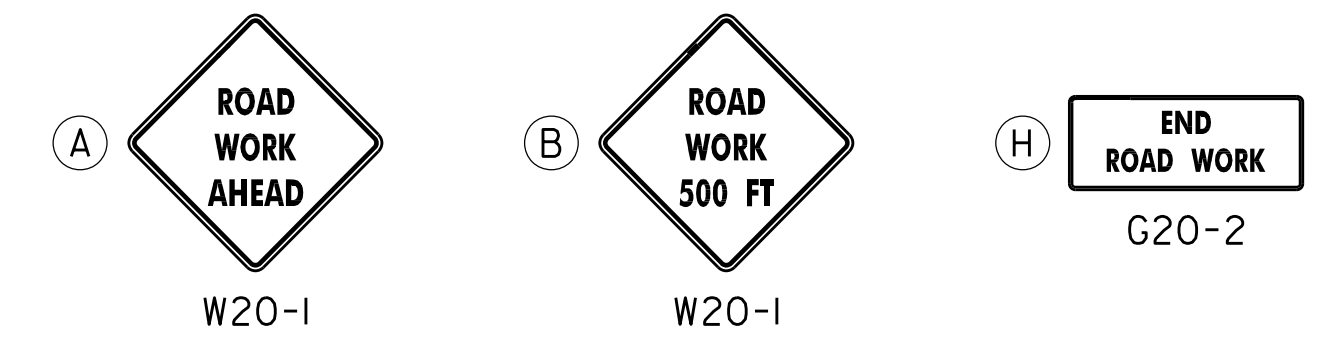
STA. 113+00 TO STA. 115+50

PROJECT NAME: KOCHER DRIVE	
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)	
FILE NAME: zSTPSDWK12.cs	PLOT DATE: 10/1/2019
PROJECT LEADER: J. DOLMETSCH	DRAWN BY: N. YOSKOWITZ
DESIGNED BY: J. DOLMETSCH	CHECKED BY: J. DOLMETSCH
CROSS SECTIONS	SHEET 19 OF 29



- NOTES:**
1. THIS SHEET INTENDED TO PROVIDE GUIDANCE ON CONSTRUCTION APPROACH SIGNING ONLY. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SITE-SPECIFIC TRAFFIC CONTROL PLANS TO ADDRESS SPECIFIC SITUATIONS. SUCH PLANS SHALL INCLUDE TYPES AND LOCATIONS OF SIGNS, CHANNELIZING DEVICES, ARROW PANELS, TEMPORARY BARRICADES, FLAGGERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED. THE CONTRACTORS TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO VTRANS FOR REVIEW AND APPROVAL, AND SHALL COMPLY WITH ALL APPLICABLE VTRANS STANDARD DETAILS AND MUTCD STANDARDS. ALL REQUIRED TRAFFIC CONTROL AND PEDESTRIAN CONTROL PLAN PREPARATION, IMPLEMENTATION AND MATERIAL COSTS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR 64L11 TRAFFIC CONTROL, ALL-INCLUSIVE.
  2. THE RAILROAD CROSSING INDICATED ON THE PLANS IS ABANDONED. NO COORDINATION IS NECESSARY.
  3. ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMMODATE PEDESTRIAN TRAFFIC AT ALL TIMES. WITH THE EXCEPTION OF THE EXISTING SIDEWALK EAST OF THE ALDI'S ENTRANCE, THERE ARE NO EXISTING PEDESTRIAN FACILITIES WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC IN THIS LOCATION.
  4. TEMPORARY BARRICADES SHALL BE ERECTED AND MAINTAINED THROUGH THE DURATION OF THE PROJECT AT THE BEGINNING AND END OF THE PROJECT TO AVOID INADVERTENT PEDESTRIAN ACCESS.
  5. CONTRACTOR SHALL PROVIDE EMERGENCY VEHICLE ACCESS THROUGH THE WORK ZONE AT ALL TIMES AND SHALL COORDINATE EMERGENCY ROUTES. ACCESS TO COMMERCIAL AND MUNICIPAL PROPERTIES SHALL BE MAINTAINED DURING BUSINESS HOURS.
  6. CONTRACTOR SHALL ACCOMMODATE POSTAL DELIVERIES, NEWSPAPER ROUTES, TRASH AND DELIVERY SERVICES.
  7. IF WORK IS PERFORMED WHILE SCHOOL IS IN SESSION, CONTRACTOR SHALL NOTIFY AFFECTED SCHOOLS OF POSSIBLE DELAYS AND SHALL MAKE NECESSARY ACCOMMODATIONS.
  8. WORK SHALL BE LIMITED TO THE HOURS BETWEEN SUNRISE AND SUNSET, AND SHALL BE LIMITED DURING PEAK COMMUTER TRAFFIC PERIODS (7 A.M. TO 9 A.M. AND 4 P.M. TO 6 P.M.). IF CONTRACTOR ELECTS TO PERFORM NIGHT WORK, ALL SUCH WORK SHALL CONFORM TO THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM "GUIDELINES FOR DESIGN AND OPERATION OF NIGHTTIME TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE AND CONSTRUCTION". ALL COSTS ASSOCIATED WITH THE DESIGN AND IMPLEMENTATION OF A NIGHT WORK PLAN SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR 64L10 TRAFFIC CONTROL.
  9. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHALL BE COVERED COMPLETELY WITH OPAQUE MATERIAL.

**LEGEND**



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 Waterbury, Vermont 05676  
 (802) 882-8335 Fax (802) 882-8346  
 www.miloneandmacbroom.com

PROJECT NAME:	KOCHER DRIVE
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)
FILE NAME:	zSPSDWK12_wztc
PROJECT LEADER:	J. DOLMETSCH
DESIGNED BY:	J. DOLMETSCH
CONSTRUCTION APPROACH SIGNING	
PLOT DATE:	10/17/2019
DRAWN BY:	N. YOSKOWITZ
CHECKED BY:	J. DOLMETSCH
SHEET	20 OF 29

**TRAFFIC SIGNAL NOTES**

1. PROPOSED CONDUIT IN BENMONT AVE & ALDI DR. SHALL BE IN A 10" HDPE SLEEVE.
2. ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.
3. ALL NEW WIRING SHALL BE CONTINUOUS FROM CONTROLLER TO NEW APPARATUS.
4. ALL TRAFFIC SIGNAL CONDUIT WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 678. ALL CONDUIT SHALL BE SCHEDULE 80 PVC.
5. CUT AND AVOID DAMAGING EXISTING CONDUIT TO INSTALL JB1 AND JB2 TO PROVIDE NEW WIRING FROM THE EXISTING PP2C BACK TO THE CABINET.
6. PUSHBUTTONS AND PEDESTRIAN SIGNS SHALL BE PROVIDED WITH ALL PROPOSED PEDESTRIAN SIGNALS AND SHALL COMPLY WITH VTRANS STANDARD 752.13 & 752.14. PEDESTRIAN SIGN SHALL BE MUTCD STANDARD R10-3E, INSTALLED IMMEDIATELY ABOVE THE PUSH BUTTON.
7. PEDESTAL POST AND PEDESTRIAN PUSH BUTTON LOCATIONS SHALL COMPLY WITH VTRANS STANDARD DRAWING E-171C. PEDESTRIAN PUSH BUTTON SHALL BE LOCATED WITHIN 10' OF SIDEWALK. PUSH BUTTONS SHALL BE INSTALLED PARALLEL TO THE CROSSWALK SERVED.
8. CONTRACTOR TO ADJUST VIDEO DETECTION ZONE FOR RELOCATED STOP BAR FOR THE ALDI/CVS DRIVEWAY.
9. SIGNAL UNDER CONSTRUCTION SIGN PANELS SHALL BE MOUNTED UNDER "ROAD CONSTRUCTION AHEAD" SIGNS ANYTIME SIGNAL SYSTEM WORK IS BEING DONE. SEE DETAIL THIS SHEET.
10. A WORKING SIGNAL SYSTEM SHALL BE IN PLACE AT THE END OF EACH DAY, IF THE SIGNAL SYSTEM IS NOT IN WORKING ORDER AT END OF DAY, THE CONTRACTOR SHALL PROVIDE UNIFORMED OFFICERS TO CONTROL TRAFFIC UNTIL THE SIGNAL IS IN WORKING ORDER AT NO ADDITIONAL COST.
11. CONTRACTOR TO MODIFY CONTROLLER FOUNDATION TO ACCEPT NEW CONDUIT.
12. CONTRACTOR TO MODIFY CONTROLLER TO ADD CONCURRENT PEDESTRIAN PHASE TO SIGNAL TIMING.
13. CONTRACTOR TO INSTALL NEW PEDESTRIAN PUSH BUTTONS (PPB) AND TOP-MOUNTED ACCESSIBLE PEDESTRIAN SIGNALS ONTO NEW PEDESTAL POSTS AS SHOWN.
14. CONTRACTOR TO ADJUST VIDEO DETECTION ZONES FOR NEW LANE ARRANGEMENT. CONTRACTOR TO MODIFY CONTROLLER TO ACCOMMODATE THIS CHANGE. ALL ADJUSTMENTS SHALL BE COORDINATED WITH THE VTRANS SIGNAL ENGINEER.
15. EXISTING SIGNAL TIMINGS ARE TO REMAIN UNCHANGED.
16. CONDUITS FROM JB3 TO JB4 AND FROM JB1 TO JB5 ARE TO BE INSTALLED VIA DIRECTIONAL DRILL.

**ELECTRICAL CONDUIT SLEEVE**

(10" HDPE)

JB1 TO JB5 - 45'  
JB3 TO JB4 - 71'

2" ELECTRICAL CONDUIT (PVC)

JB1 TO JB5 - 66'  
JB3 TO JB4 - 79'

**WIRED CONDUIT**

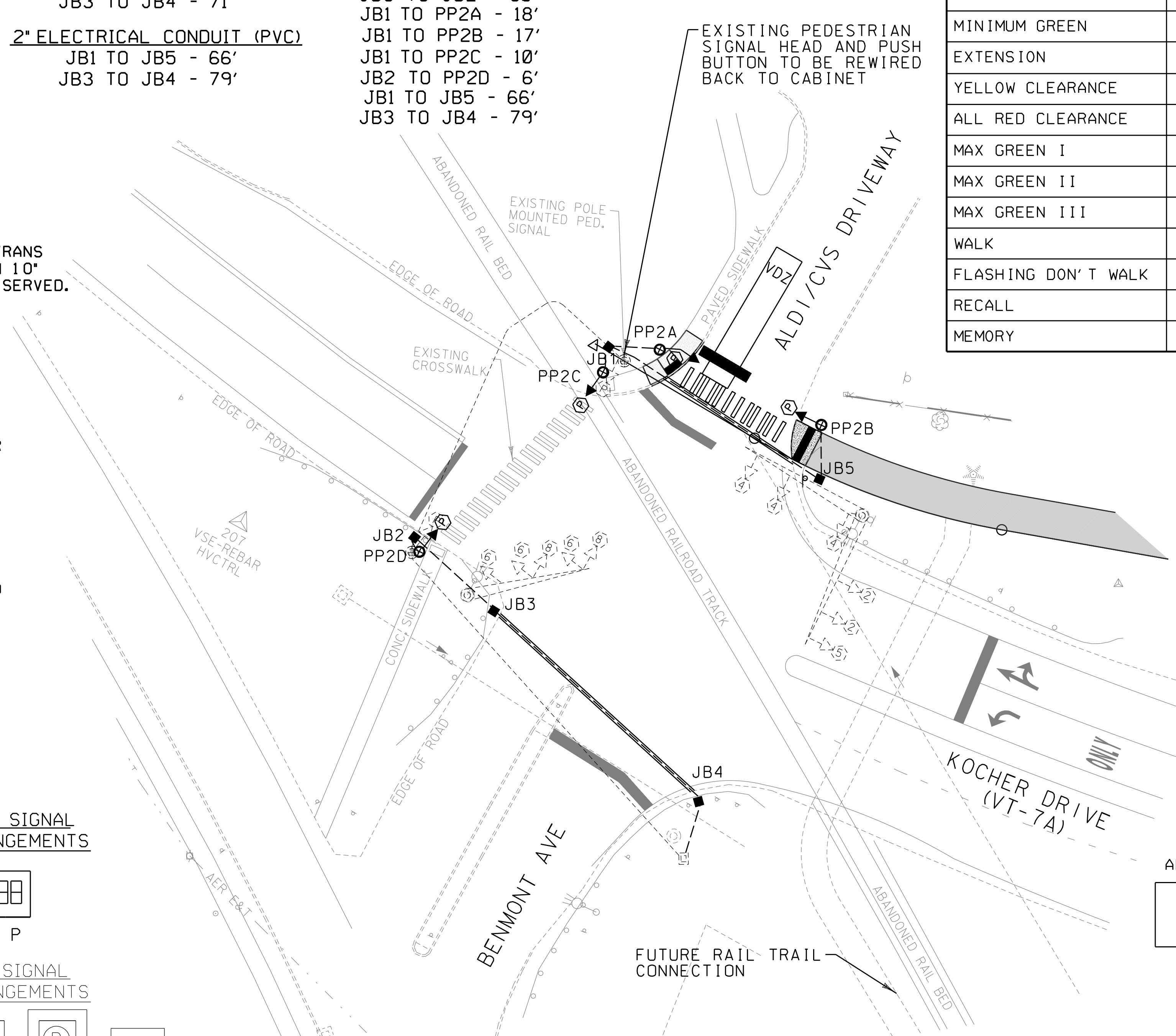
(2" PVC)

CONTROLLER TO JB4 - 18'

JB3 TO JB2 - 30'  
JB1 TO PP2A - 18'  
JB1 TO PP2B - 17'  
JB1 TO PP2C - 10'  
JB2 TO PP2D - 6'  
JB1 TO JB5 - 66'  
JB3 TO JB4 - 79'

**ELECTRICAL WIRING**

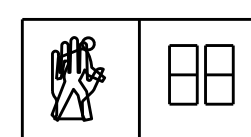
JB1 TO PP2C - 27'  
JB2 TO JB1 - 340'



**CONTROLLER TIMING CHART**

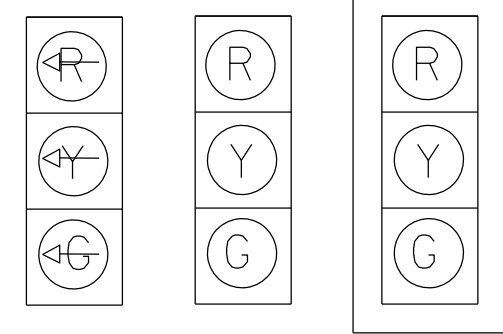
LOCAL PROGRAMMING	PHASE							
	1	2	3	4	5	6	7	8
MINIMUM GREEN		9		5	5	9		5
EXTENSION		2		2	2			2
YELLOW CLEARANCE		4.1		4.1	4.1	4.1		4.1
ALL RED CLEARANCE		2.7		1.6	2.7	2.7		1.6
MAX GREEN I		42		31	7	28		31
MAX GREEN II		40		27	8	25		27
MAX GREEN III		43		30	5	31		30
WALK		4		4		4		4
FLASHING DON'T WALK		11		12		11		12
RECALL		MAX				MAX		
MEMORY				N/L	L			N/L

**PROPOSED SIGNAL FACE ARRANGEMENTS**



FACE P

**EXISTING SIGNAL FACE ARRANGEMENTS**

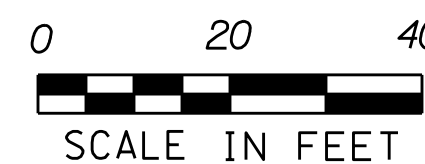


5 2,4 6,8

FACES



P



EXISTING	NEW	LEGEND
⊙	○	STRAIN POLE
□	■	CONTROLLER CABINET
□	■	PULLBOX/JUNCTION BOX
—○	—○	SIGNAL HEAD
---	---	CONDUIT
□	□	VIDEO DETECTION ZONES
⊕	⊕	PEDESTAL POST

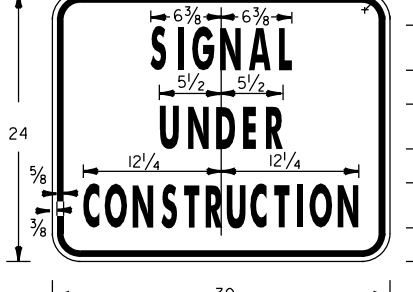
EQUIPMENT	ITEM NO.	UNIT	VT ROUTE 7A & BENMONT AVE	NOTES
ELECTRICAL CONDUIT	678.21	LF	145	2" PVC
WIRED CONDUIT	678.23	LF	244	2" PVC
ELECTRICAL WIRING	678.24	LF	367	-
JUNCTION BOX	678.26	EA	5	-
HORIZONTAL DIRECTIONAL DRILLING	900.640	LF	116	10" HDPE CONDUIT SLEEVE

NOTE: THIS PLAN IS SHOWN FOR THE CONCURRENT PEDESTRIAN PHASE ADDED AND PEDESTRIAN HEAD LOCATIONS. EXISTING TRAFFIC SIGNAL EQUIPMENT LOCATIONS ARE APPROXIMATE.

**CONSTRUCTION SIGN DETAIL**

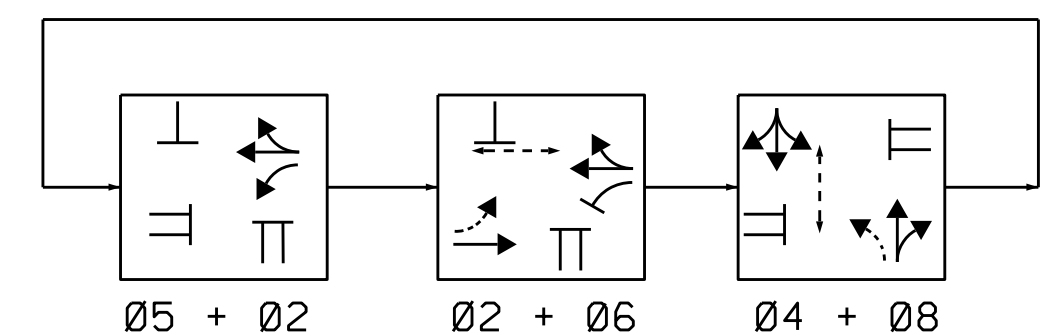
N. T. S.

VC-820



MATERIALS: SEE STD. E-146  
COLORS: TEXT & BORDER BLACK  
BACKGROUND - ORANGE (REFL. ENCAPSULATED LENS)

**PHASING DIAGRAM**  
ALDI / CVS DRIVEWAY AT VT 7A



DUAL SPLIT	CYCLE LENGTH	PHASES								OFFSETS	
		1	2	3	4	5	6	7	8	SEC	%
1-1	86		49		37	14	35		37	0	0
2-1	80		47		33	15	32		33	0	0
3-1	86		50		36	12	38		36	0	0
1-1	WEEKDAYS - 0900 TO 1400, 1900 TO 2300										
2-1	WEEKDAYS - 0600 TO 0900										
3-1	WEEKDAYS - 1400 TO 1900										
2-1	SAT. & SUN. - 1000 TO 1800										
1-1	SAT. & SUN. - 0600 TO 1000, 1800 TO 2300										

FOR ALL OTHER TIMES, THE INTERSECTION SHALL OPERATE IN FREE MODE.



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Waterbury, Vermont 05676  
(802) 882-8335 Fax (802) 882-8346  
www.miloneandmacbroom.com

PROJECT NAME: KOCHER DRIVE  
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)

FILE NAME: zSTPSDWK12.ts  
PROJECT LEADER: J. DOLMETSCH  
DESIGNED BY: J. DOLMETSCH  
TRAFFIC SIGNAL PLAN

PLOT DATE: 10/17/2019  
DRAWN BY: N. YOSKOWITZ  
CHECKED BY: J. DOLMETSCH  
SHEET 21 OF 29

CONTROLLER TIMING CHART								
LOCAL PROGRAMMING	PHASE							
	1	2	3	4	5	6	7	8
MINIMUM GREEN	8	8	5	8	8	8	5	8
EXTENSION	2	2	2	2	2	2	2	2
YELLOW CLEARANCE	4.8	4.8	4.1	4.1	4.8	4.8	4.1	4.1
ALL RED CLEARANCE	1.5	1.5	2.1	2.1	1.5	1.5	2.1	2.1
MAX GREEN I	13	9	9	45	8	13	8	45
MAX GREEN II	15	14	9	44	15	14	9	44
MAX GREEN III	20	9	15	47	16	13	16	46
ADVANCED PEDESTRIAN				5.0				
WALK				5.0				
FLASHING DON'T WALK				35				
RECALL								
MEMORY	L	L	L	L	L	L	L	L

THIS INTERSECTION SHALL OPERATE IN FREE MODE.

**TRAFFIC SIGNAL NOTES**

1. PROPOSED CONDUIT IN ROUTES 7 & 7A SHALL BE IN A 10" HDPE SLEEVE AND SHALL BE INSTALLED BY DIRECTIONAL BORING.
2. ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.
3. ALL NEW WIRING SHALL BE CONTINUOUS FROM CONTROLLER TO NEW APPARATUS.
4. ALL TRAFFIC SIGNAL CONDUIT WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 678. ALL CONDUIT SHALL BE SCHEDULE 80 PVC.
5. ADJUST VIDEO DETECTION ZONES FOR THE NEW SOUTHBOUND LEG LANE ARRANGEMENT. VIDEO DETECTION ZONES SHOWN ON THIS PLAN ARE FOR ILLUSTRATION ONLY, FIELD ADJUSTMENTS ARE REQUIRED.
6. PULLBOXES / JUNCTION BOXES ARE DETAILED ON STD E-173 AND SHALL CONTAIN THE LOGO "TRAFFIC SIGNAL".
7. PUSHBUTTONS AND PEDESTRIAN SIGNS SHALL BE PROVIDED WITH ALL PROPOSED PEDESTRIAN SIGNALS AND SHALL COMPLY WITH VTRANS STANDARD SPECIFICATIONS 752.13 & 752.14. PEDESTRIAN SIGN SHALL BE MUTCD STANDARD R10-3E, INSTALLED IMMEDIATELY ABOVE THE PUSH BUTTON.
8. PEDESTAL POST AND PEDESTRIAN PUSH BUTTON LOCATIONS SHALL COMPLY WITH VTRANS STANDARD DRAWING E-171C. PEDESTRIAN PUSH BUTTON SHALL BE LOCATED WITHIN 10' OF SIDEWALK. PUSH BUTTONS SHALL BE INSTALLED PARALLEL TO THE CROSSWALK SERVED.
9. SIGNAL UNDER CONSTRUCTION SIGN PANELS SHALL BE MOUNTED UNDER "ROAD CONSTRUCTION AHEAD" SIGNS ANYTIME SIGNAL SYSTEM WORK IS BEING DONE. SEE DETAIL THIS SHEET.
10. A WORKING SIGNAL SYSTEM SHALL BE IN PLACE AT THE END OF EACH DAY, IF THE SIGNAL SYSTEM IS NOT IN WORKING ORDER AT END OF DAY, THE CONTRACTOR SHALL PROVIDE UNIFORMED OFFICERS TO CONTROL TRAFFIC UNTIL THE SIGNAL IS IN WORKING ORDER AT NO ADDITIONAL COST.
11. CONTRACTOR TO MODIFY CONTROLLER FOUNDATION TO ACCEPT NEW CONDUIT.
12. CONTRACTOR TO MODIFY CONTROLLER TO ADD CONCURRENT PEDESTRIAN PHASE TO SIGNAL TIMING.
13. CONTRACTOR TO INSTALL NEW PEDESTRIAN PUSH BUTTONS (PPB) AND TOP-MOUNTED ACCESSIBLE PEDESTRIAN SIGNALS ONTO NEW PEDESTAL POSTS AS SHOWN.
14. CONTRACTOR TO ADJUST VIDEO DETECTION ZONES FOR NEW LANE ARRANGEMENT. CONTRACTOR TO MODIFY CONTROLLER TO ACCOMMODATE THIS CHANGE. ALL ADJUSTMENTS SHALL BE COORDINATED WITH THE VTRANS SIGNAL ENGINEER.
15. EXISTING SIGNAL TIMINGS ARE TO REMAIN UNCHANGED.
16. CONDUITS FROM JB1 TO JB2 AND FROM JB1 TO JB3 ARE TO BE INSTALLED VIA DIRECTIONAL DRILL.

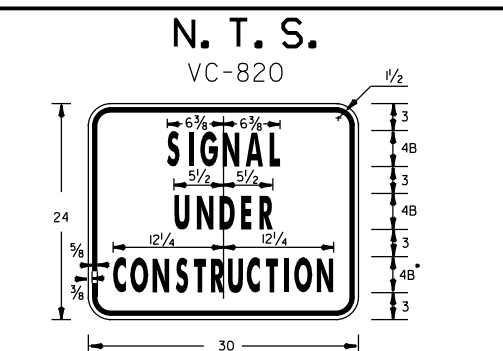
**ELECTRICAL CONDUIT SLEEVE**

- (10" HDPE)
- JB1 TO JB2 - 103'
  - JB1 TO JB3 - 122'
- 2" ELECTRICAL CONDUIT (PVC)
- JB1 TO JB2 - 103'
  - JB1 TO JB3 - 122'

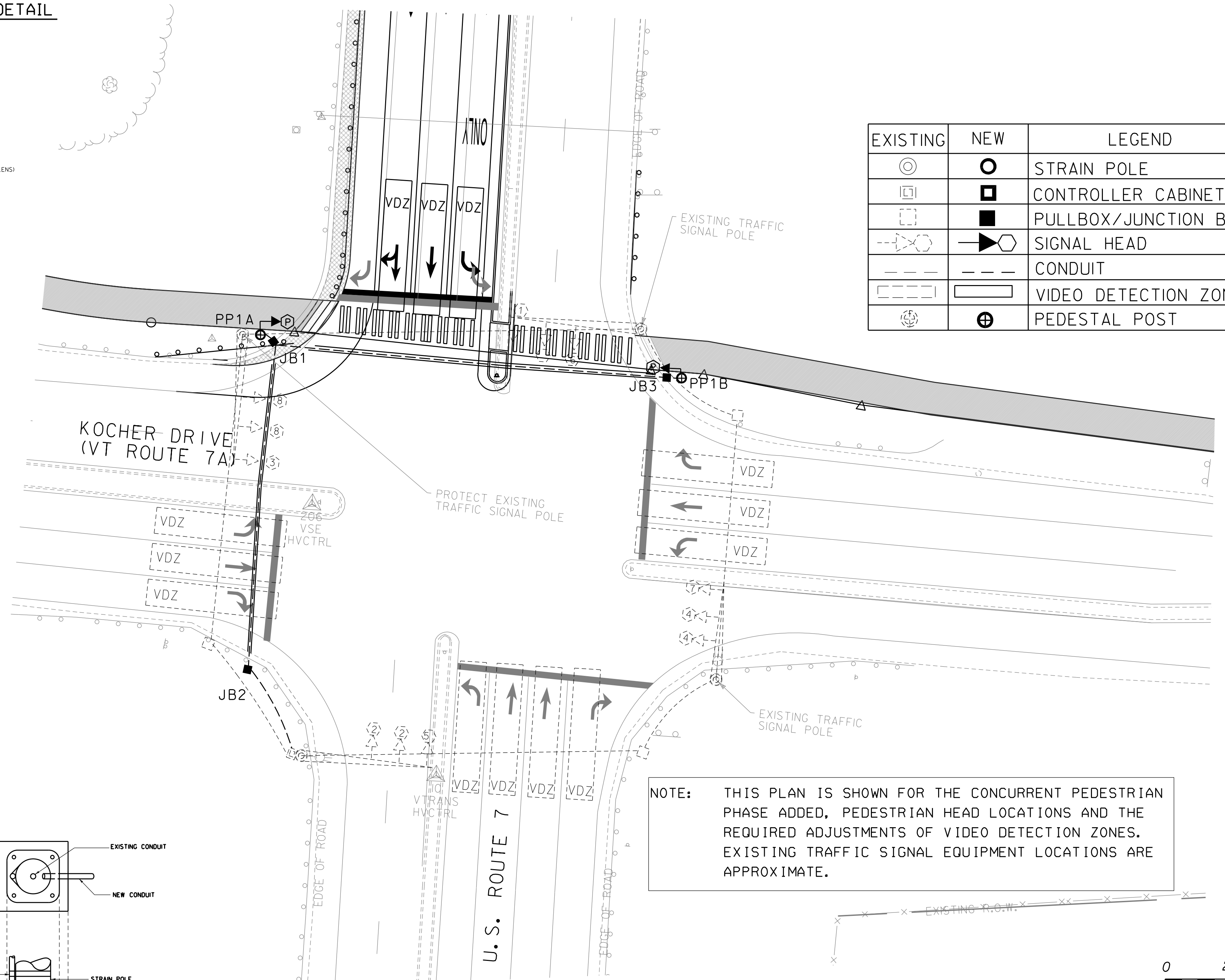
**WIRED CONDUIT**

- (2" PVC)
- JB1 TO JB2 - 103'
  - JB1 TO JB3 - 122'
  - JB1 TO PP1A - 6'
  - CONTROLLER TO JB2 - 30'
  - JB3 TO PP1B - 8'

**CONSTRUCTION SIGN DETAIL**

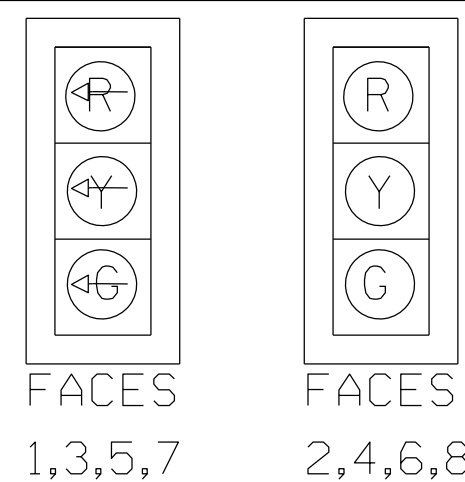


MATERIALS: SEE STD. E-146  
 COLORS: TEXT & BORDER BLACK  
 BACKGROUND - ORANGE (REFL. ENCAPSULATED LENS)

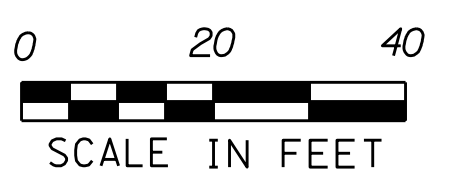
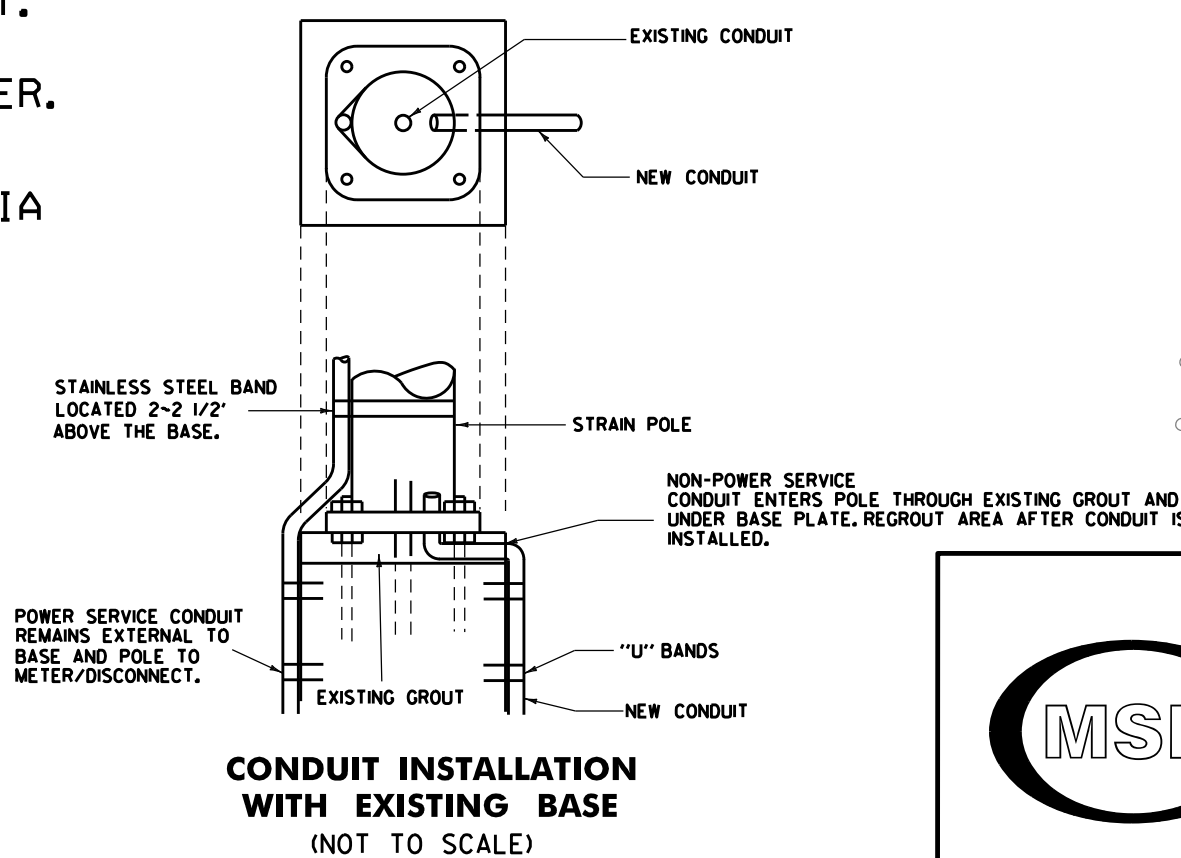
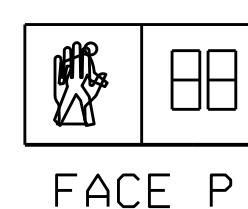


EXISTING	NEW	LEGEND
⊙	⊙	STRAIN POLE
□	□	CONTROLLER CABINET
□	■	PULLBOX/JUNCTION BOX
⬇	⬆	SIGNAL HEAD
---	---	CONDUIT
▭	▭	VIDEO DETECTION ZONES
⊕	⊕	PEDESTAL POST

**EXISTING SIGNAL FACE ARRANGEMENTS**

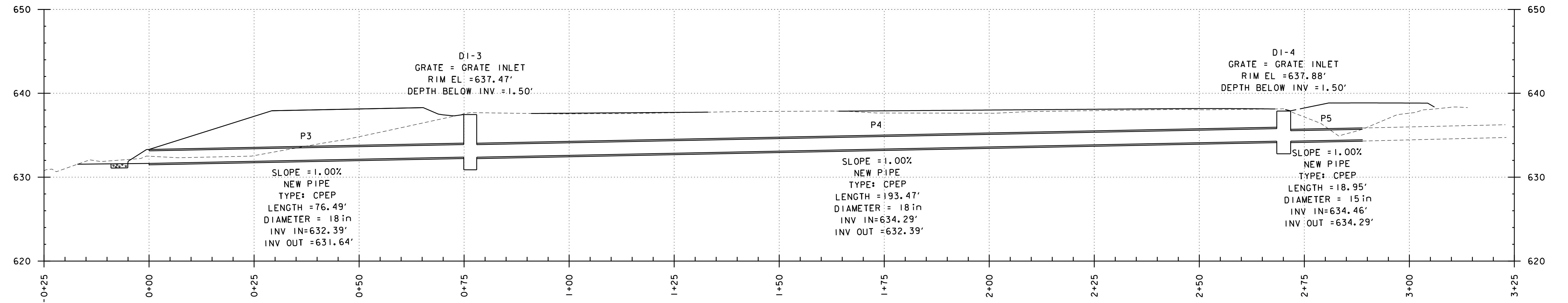


**PROPOSED SIGNAL FACE ARRANGEMENTS**



	<b>MSK ENGINEERING AND DESIGN, INC.</b> P.O. BOX 139, 150 DEPOT STREET BENNINGTON, VERMONT 05201 PH: (802) 447-1402 FAX: (802) 445-1291		1 South Main Street, 2nd Floor Waterbury, Vermont 05676 (802) 882-8335 Fax (802) 882-8346 www.miloneandmacbroom.com
	<b>PROJECT NAME:</b> KOCHER DRIVE <b>PROJECT NUMBER:</b> STP SDWK (I2) & STP BPI8 (I4)		<b>FILE NAME:</b> zSTPSDWK12.ts <b>PROJECT LEADER:</b> J. DOLMETSCH <b>DESIGNED BY:</b> J. DOLMETSCH <b>SIGNAL PLAN</b>

# P3-5



LINE	SURFACE	OFFSET
-----	Kocher_Combined	0.00
Scaled	3.0000	Times Ver.
Scaled	1.5000	Times Hor.

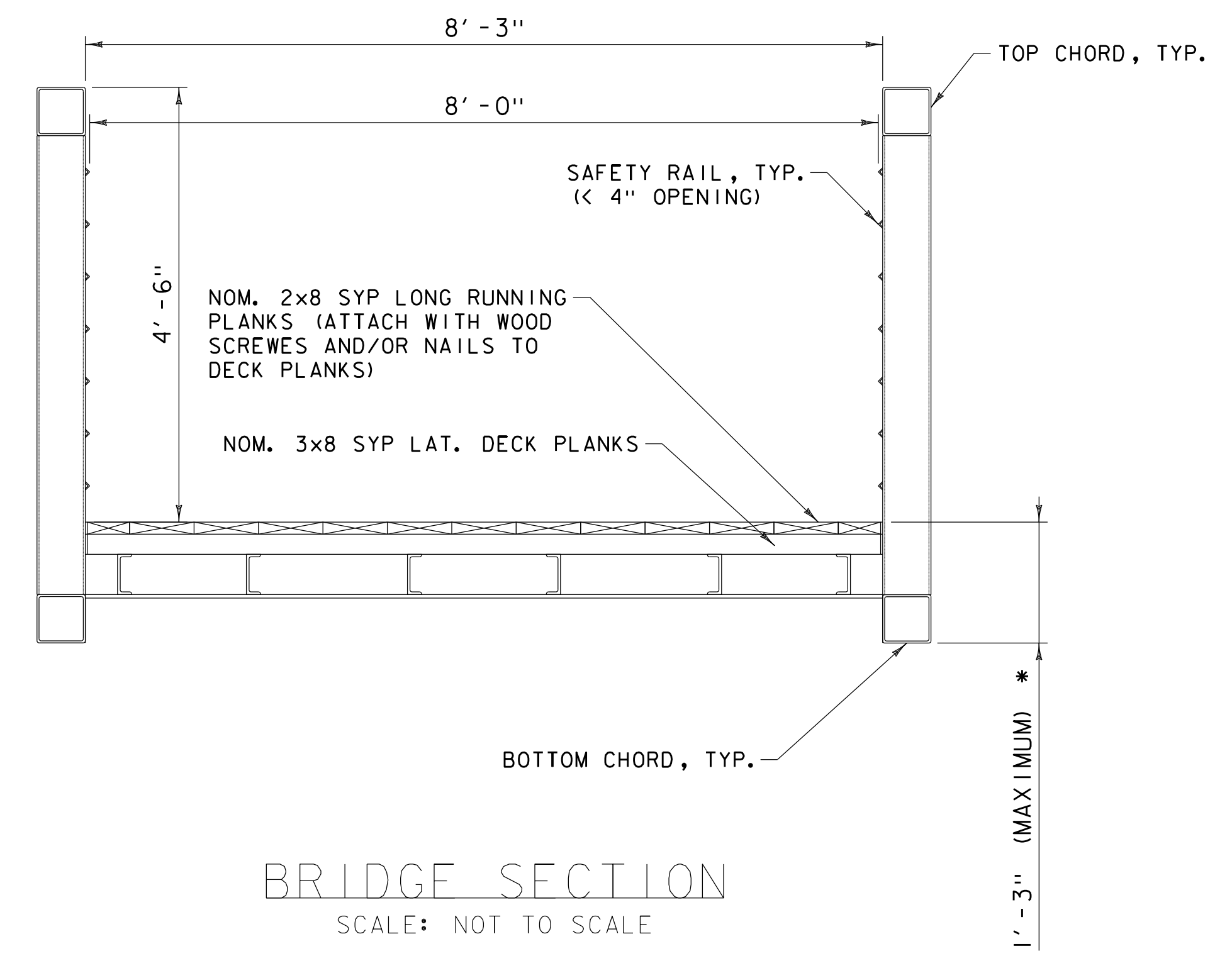
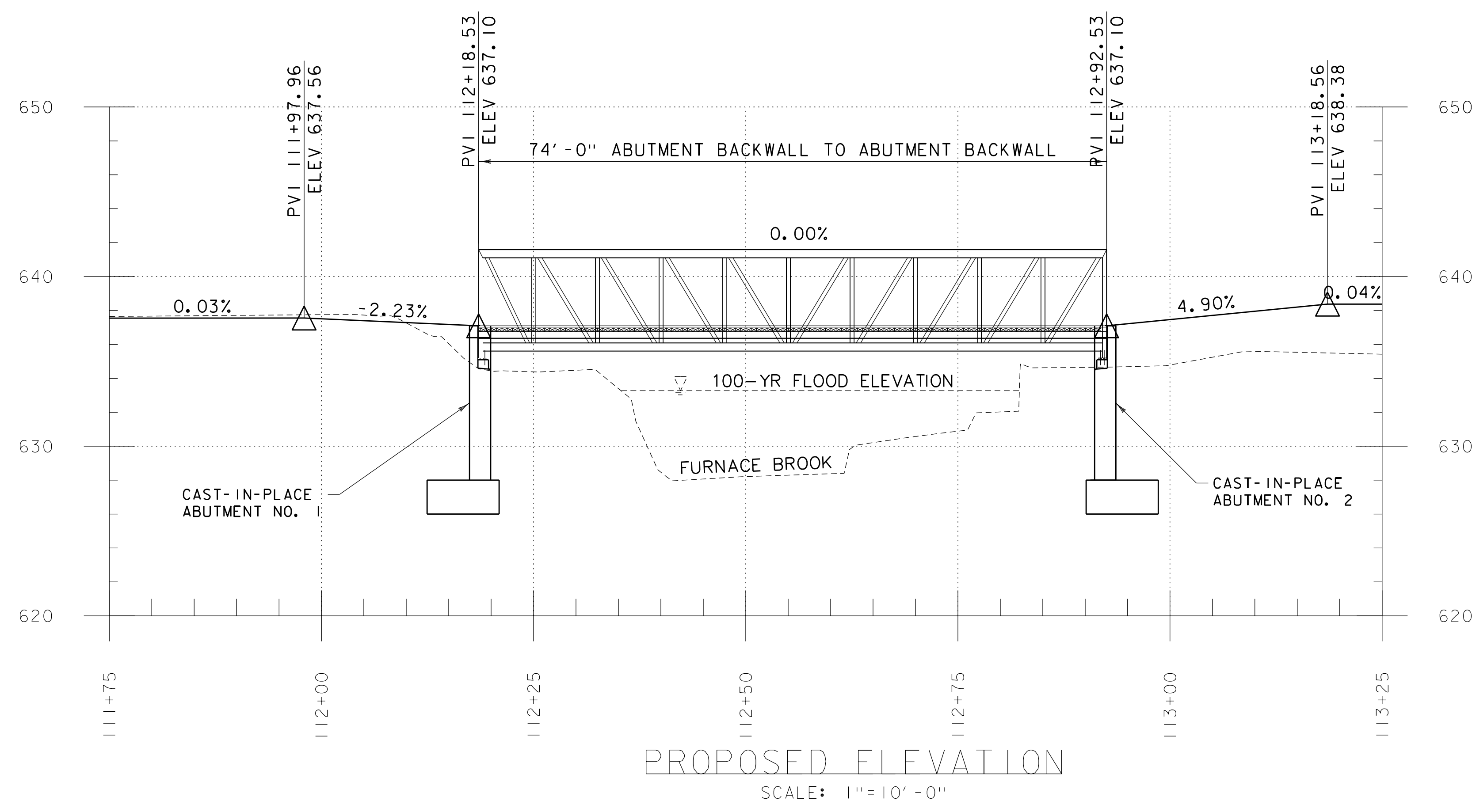
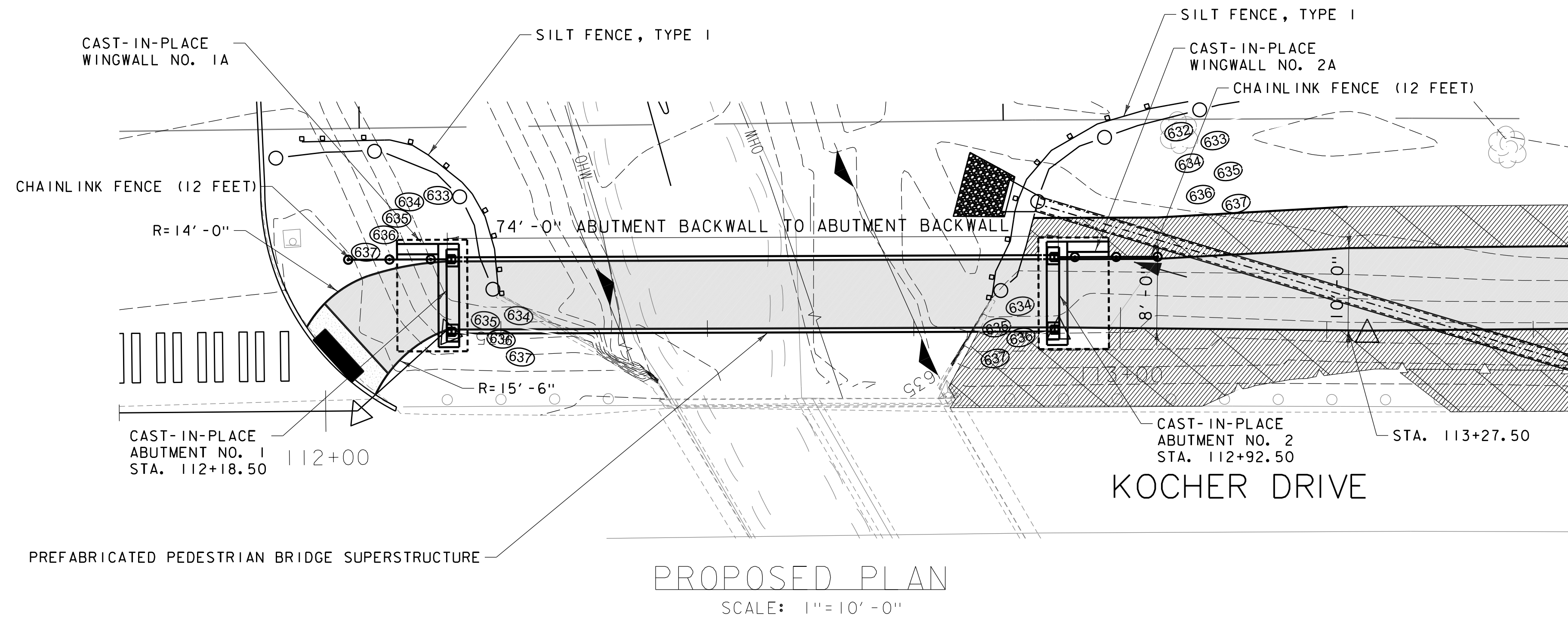
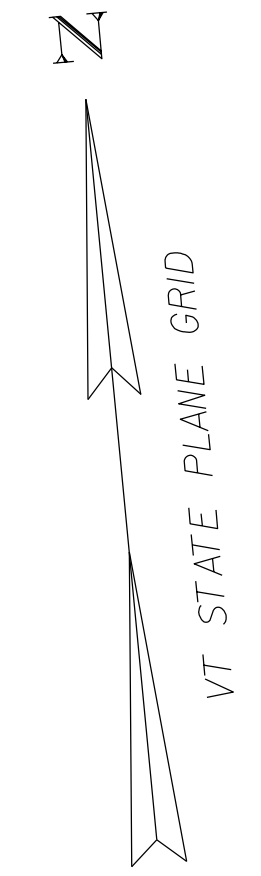


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Waterbury, Vermont 05676  
(802) 882-8335 Fax (802) 882-8346  
www.miloneandmacbroom.com

PROJECT NAME:	KOCHER DRIVE
PROJECT NUMBER:	STP SDWK (12) & STP BPI8 (14)
FILE NAME:	zSTPSDWK12.drn
PROJECT LEADER:	J. DOLMETSCH
DESIGNED BY:	J. DOLMETSCH
DRAINAGE PROFILES	
PLOT DATE:	10/17/2019
DRAWN BY:	N. YOSKOWITZ
CHECKED BY:	J. DOLMETSCH
SHEET	23 OF 29



NOTE:  
* - TOP OF DECK TO BOTTOM OF LOW CHORD SHALL NOT EXCEED 1' - 3"

LINE	SURFACE	OFFSET
-----	Existing	0.00
Scaled	2.0000	Times Ver.
Scaled	1.0000	Times Hor.

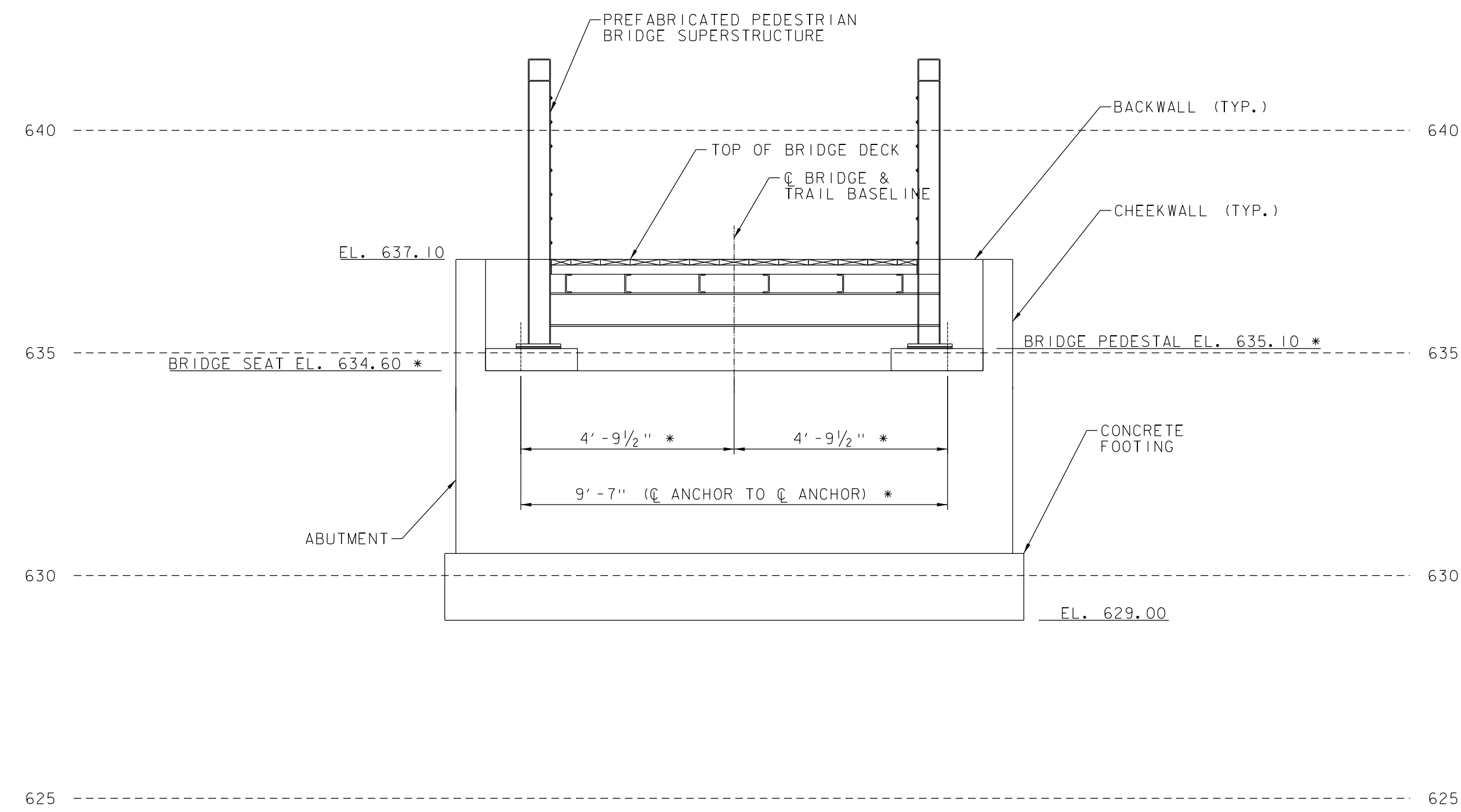


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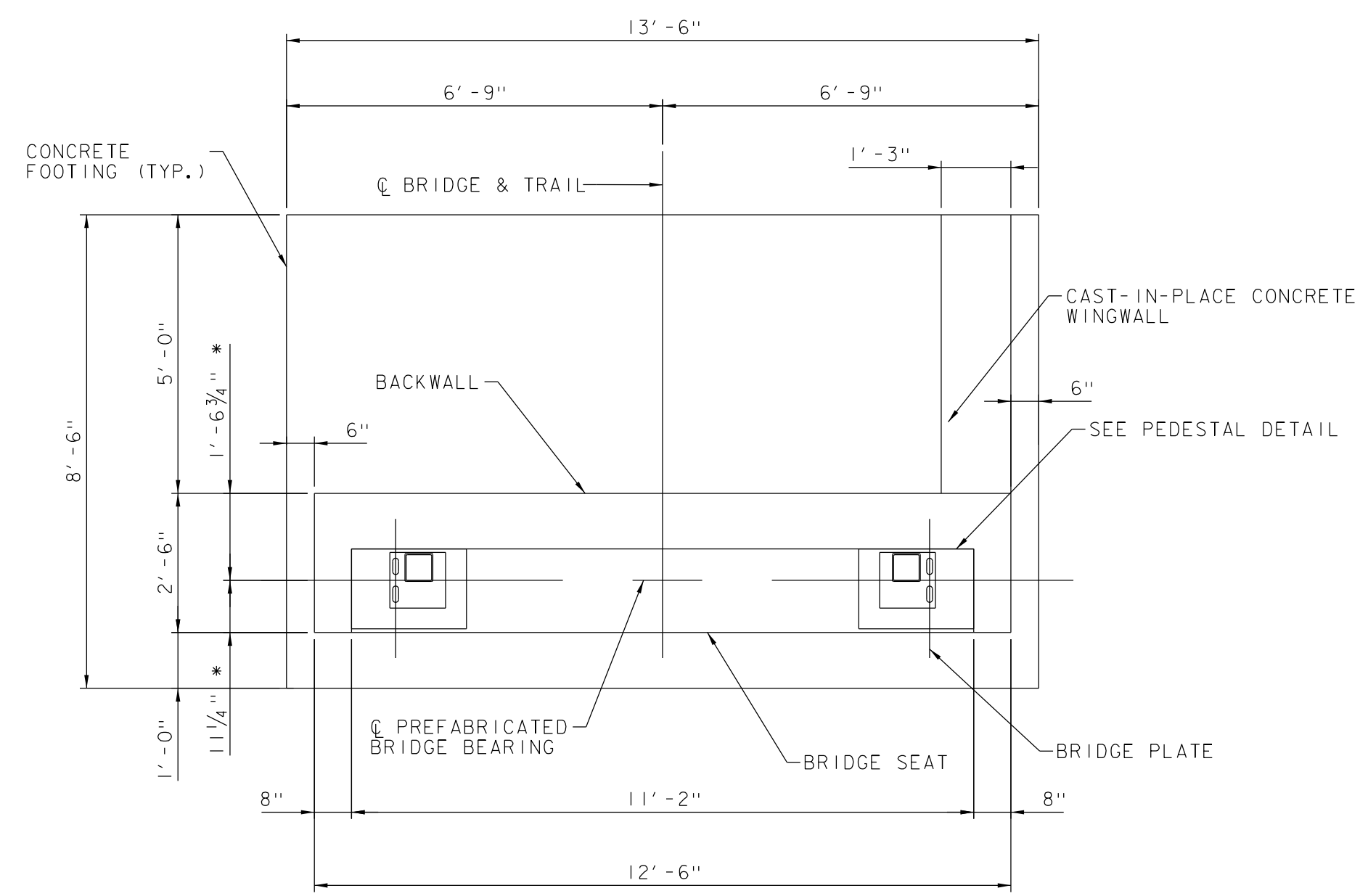
**MILONE & MACBROOM®**  
1 South Main Street, 2nd Floor  
Waterbury, Vermont 05676  
(802) 882-8335 Fax (802) 882-8346  
www.miloneandmacbroom.com

PROJECT NAME: KOCHER DRIVE	PLOT DATE: 10/1/2019
PROJECT NUMBER: STP SDWK (12) & STP BPI8 (14)	DRAWN BY: N. YOSKOWITZ
FILE NAME: zSTPSDWK12_STRPLN.dgn	CHECKED BY: J. DOLMETSCH
PROJECT LEADER: J. DOLMETSCH	SHEET 24 OF 29
DESIGNED BY: J. DOLMETSCH	
BRIDGE PLANS AND DETAILS	



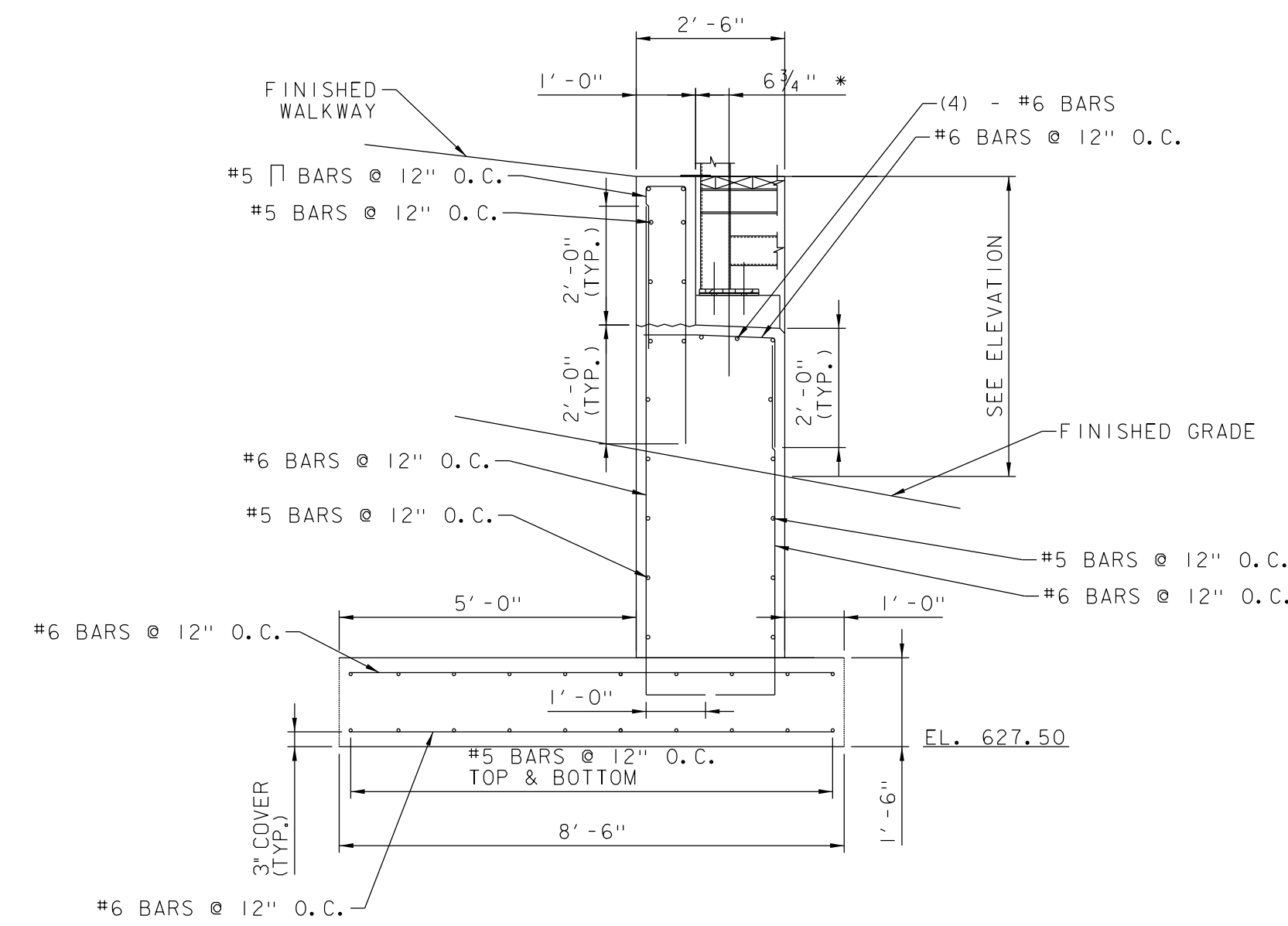


TYPICAL ABUTMENT ELEVATION  
SCALE: 1/2" = 1'-0"

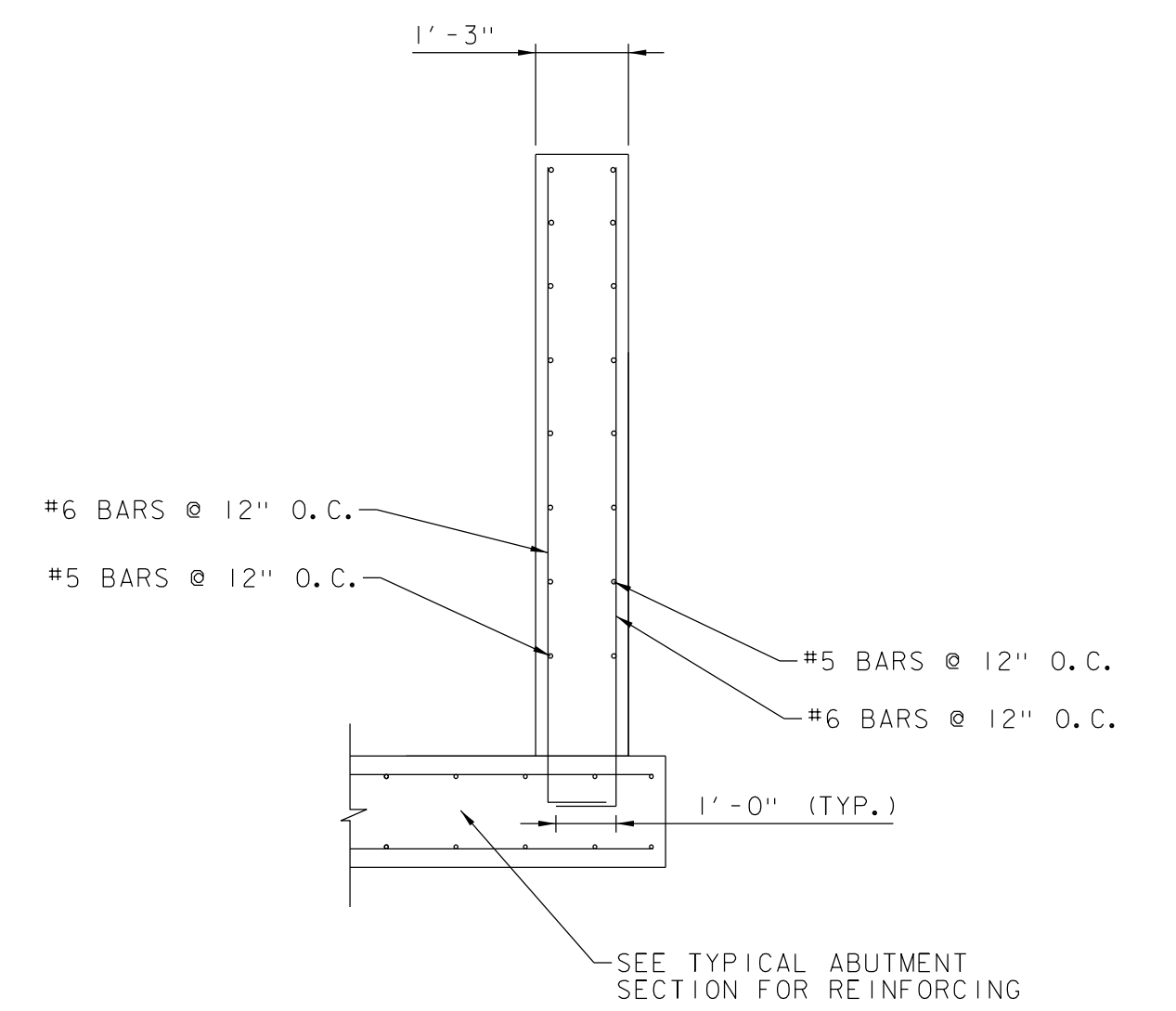


TYPICAL ABUTMENT PLAN  
SCALE: 1/2" = 1'-0"

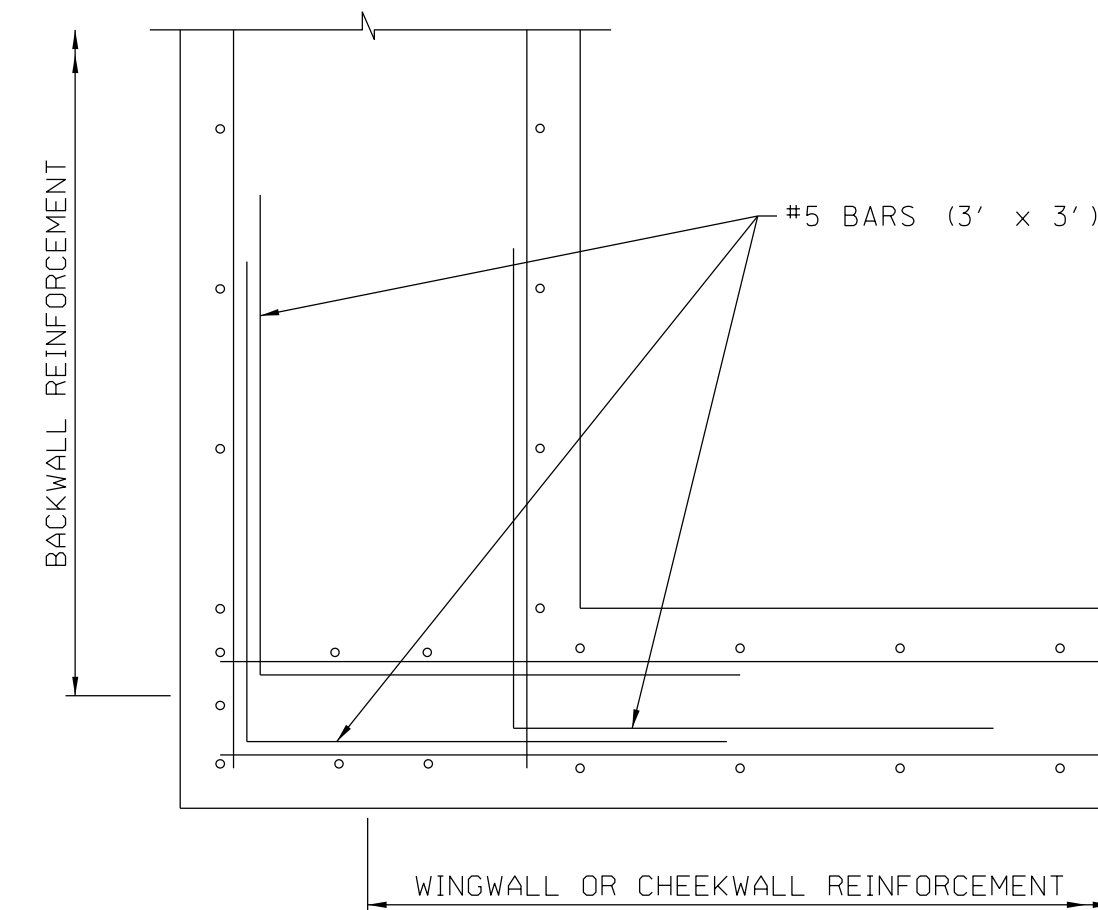
NOTES  
* - DIMENSION SHALL BE UPDATED DURING  
PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE  
SHOP DRAWING REVIEW



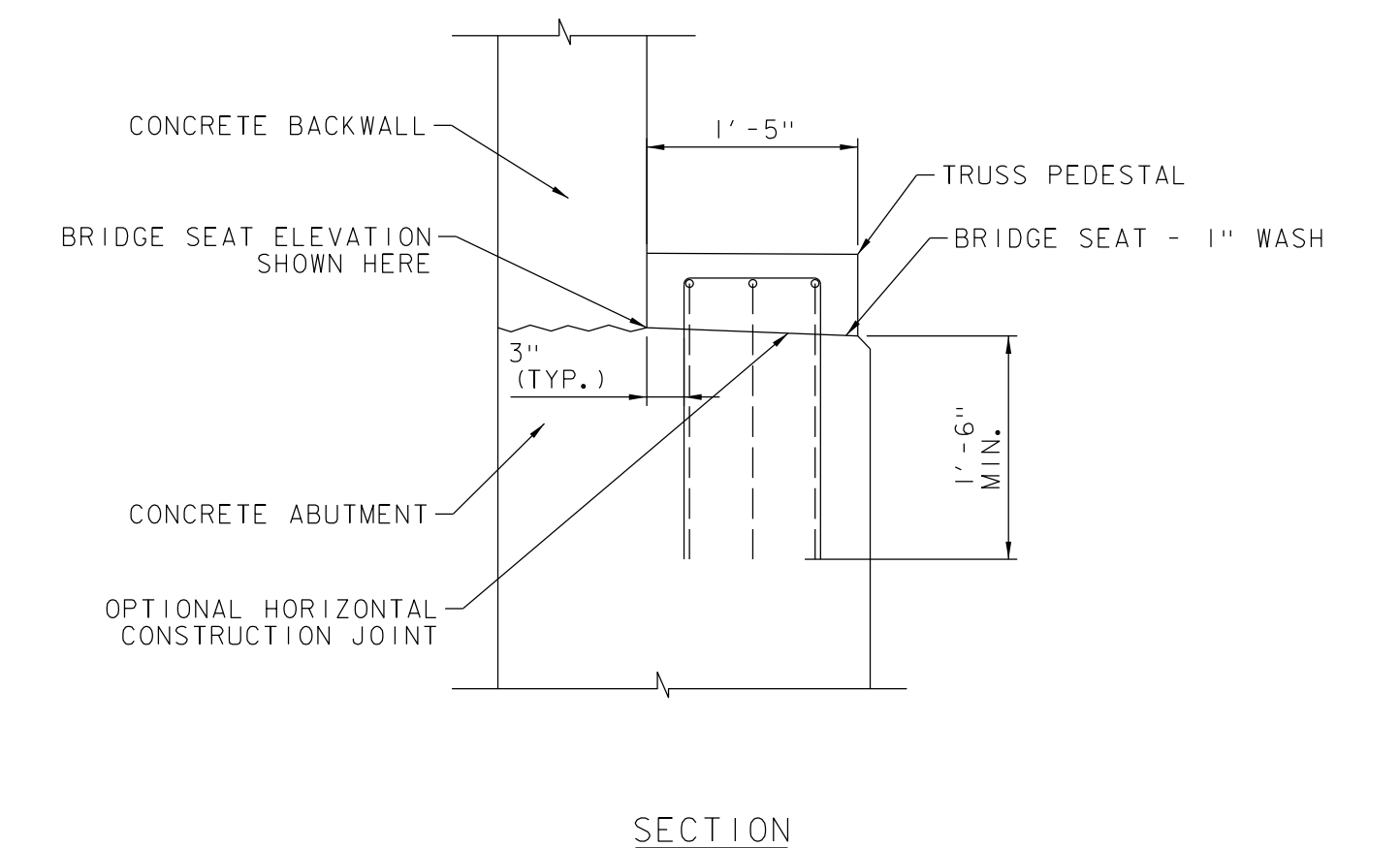
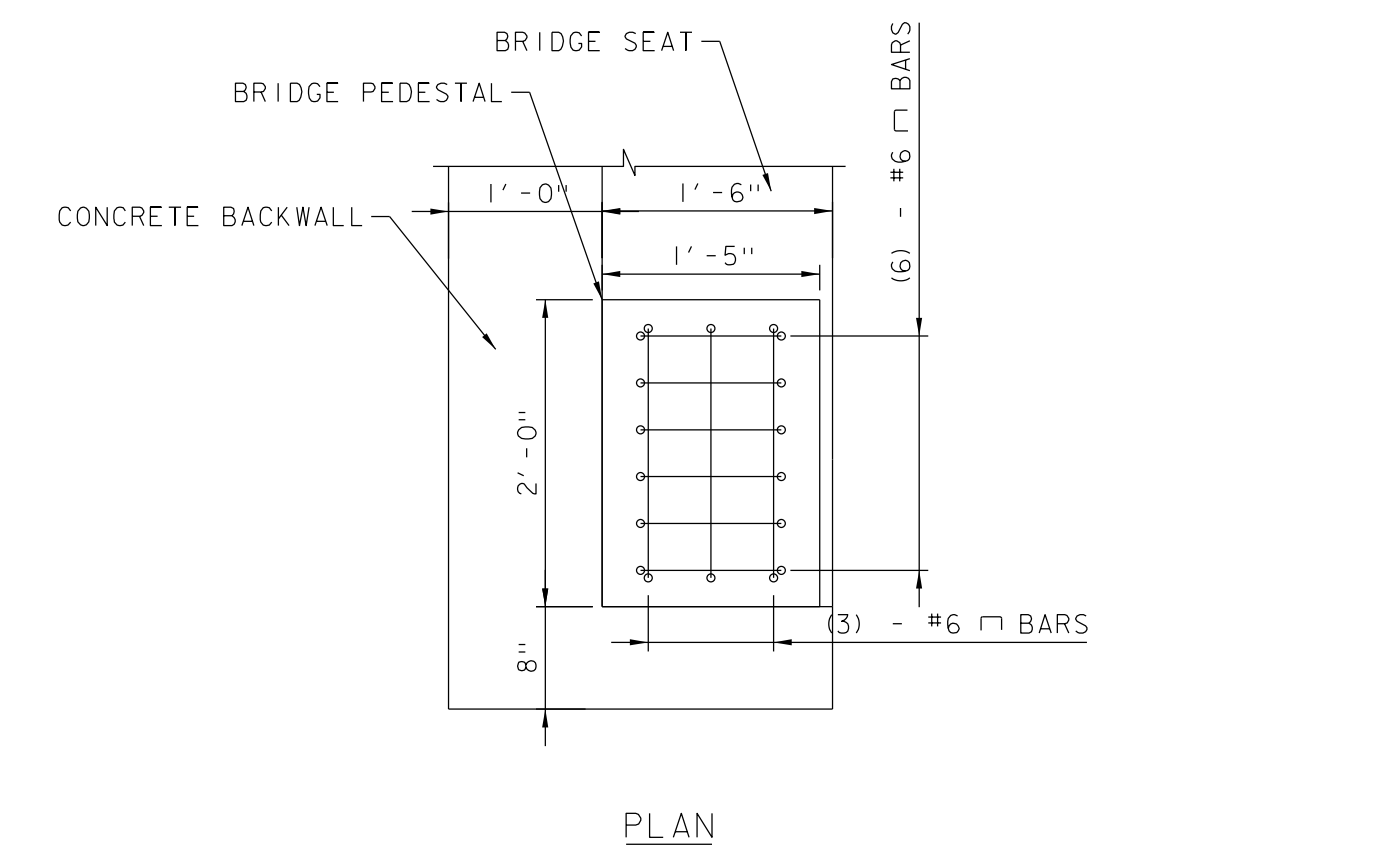
TYPICAL ABUTMENT SECTION  
SCALE: 1/2" = 1'-0"



TYPICAL WINGWALL SECTION  
SCALE: 1/2" = 1'-0"



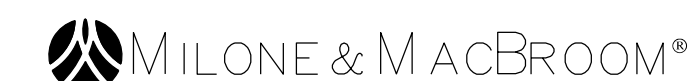
TYPICAL ABUTMENT PEDESTAL REINFORCING  
SCALE: 1/4" = 1'-0"



TYPICAL ABUTMENT PEDESTAL REINFORCING  
SCALE: 1/4" = 1'-0"



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1 South Main Street, 2nd Floor  
Waterbury, Vermont 05676  
(802) 882-8335 Fax (802) 882-8346  
www.miloneandmacbroom.com

PROJECT NAME: KOCHER DRIVE  
PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)  
FILE NAME: zSTPSDWKI2_STRDET.dgn  
PROJECT LEADER: J. DOLMETSCH  
DESIGNED BY: J. DOLMETSCH  
BRIDGE PLANS AND DETAILS  
PLOT DATE: 10/1/2019  
DRAWN BY: N. YOSKOWITZ  
CHECKED BY: J. DOLMETSCH  
SHEET 25 OF 29

**GENERAL STRUCTURAL NOTES**

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2018 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE SPECIFICATIONS, 8TH EDITION 2017, AND ITS LATEST REVISIONS.
2. BRIDGE DESIGN SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2010 STRUCTURES DESIGN MANUAL, AND AASHTO STANDARD SPECIFICATION ALLOWABLE STRESS DESIGN (ASD).
3. THE PRE-FABRICATED BRIDGE SHALL BE DESIGNED FOR MAXIMUM PEDESTRIAN LIVE LOAD OF 90 PSF.
4. ALL WORK AND ANY ASSOCIATED ACTIVITY ON THIS PROJECT SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY LIMITS AS SHOWN IN THE REFERENCE PLANS.
5. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT UNLESS OTHERWISE NOTED.
6. DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

**STRUCTURAL STEEL**

1. SITE CONDITIONS AND GEOMETRY OF THE BRIDGE MAY CONTRIBUTE TO DIFFICULTIES IN ERECTING THE PRE-FABRICATED BRIDGE. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE PRIOR TO BIDDING TO DETERMINE ANY COMPLICATIONS THAT MAY ARISE WHEN SETTING THE BRIDGE.
2. STRUCTURAL STEEL (LOW ALLOY) SHALL CONFORM TO AASHTO M270, GRADE 50.
3. ANY CONNECTIONS THAT ARE NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
4. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
5. ENDS OF BEAMS SHALL BE VERTICAL AFTER THE APPLICATION OF FULL DEAD LOAD.

**HIGH STRENGTH BOLTS**

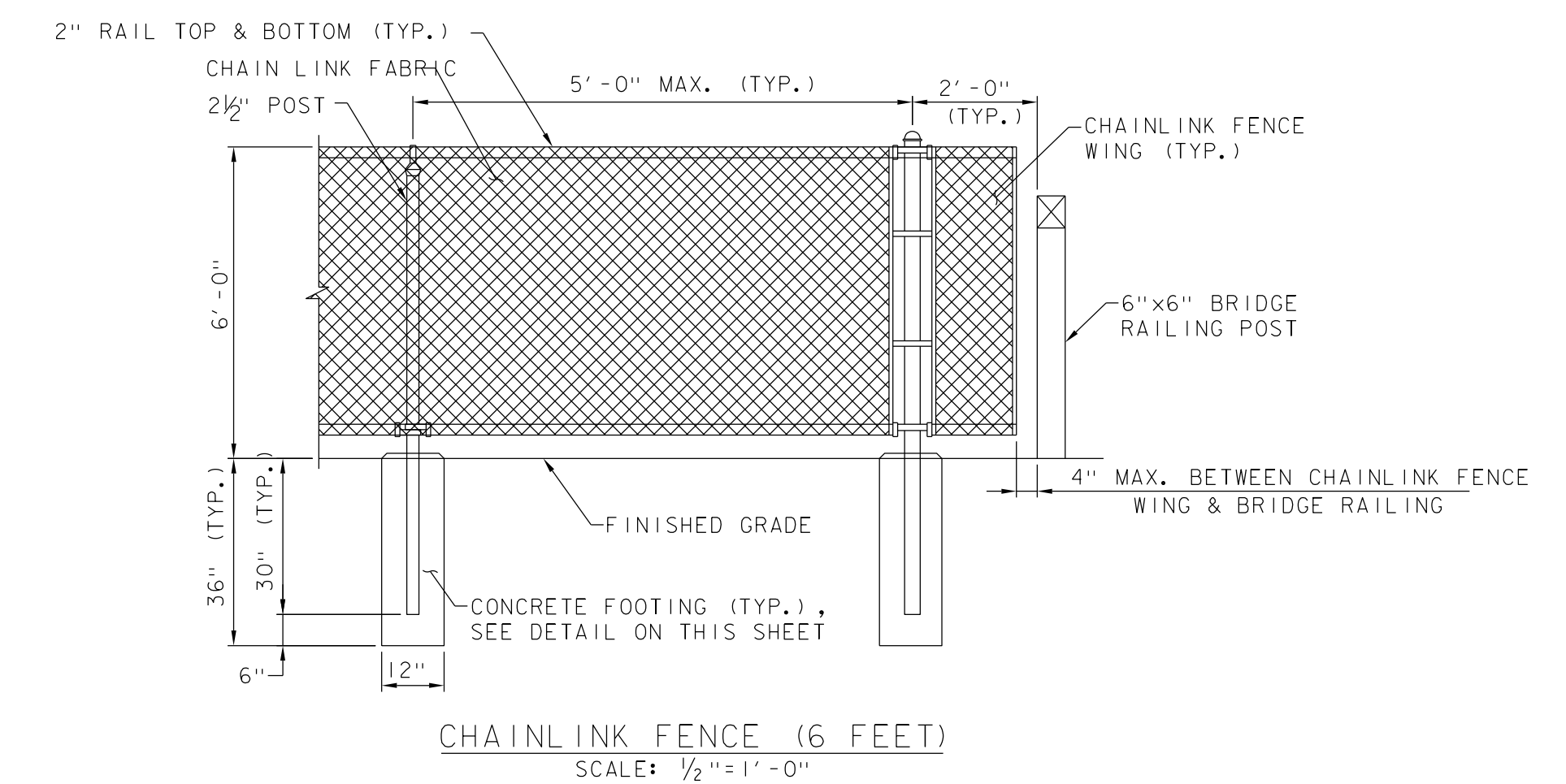
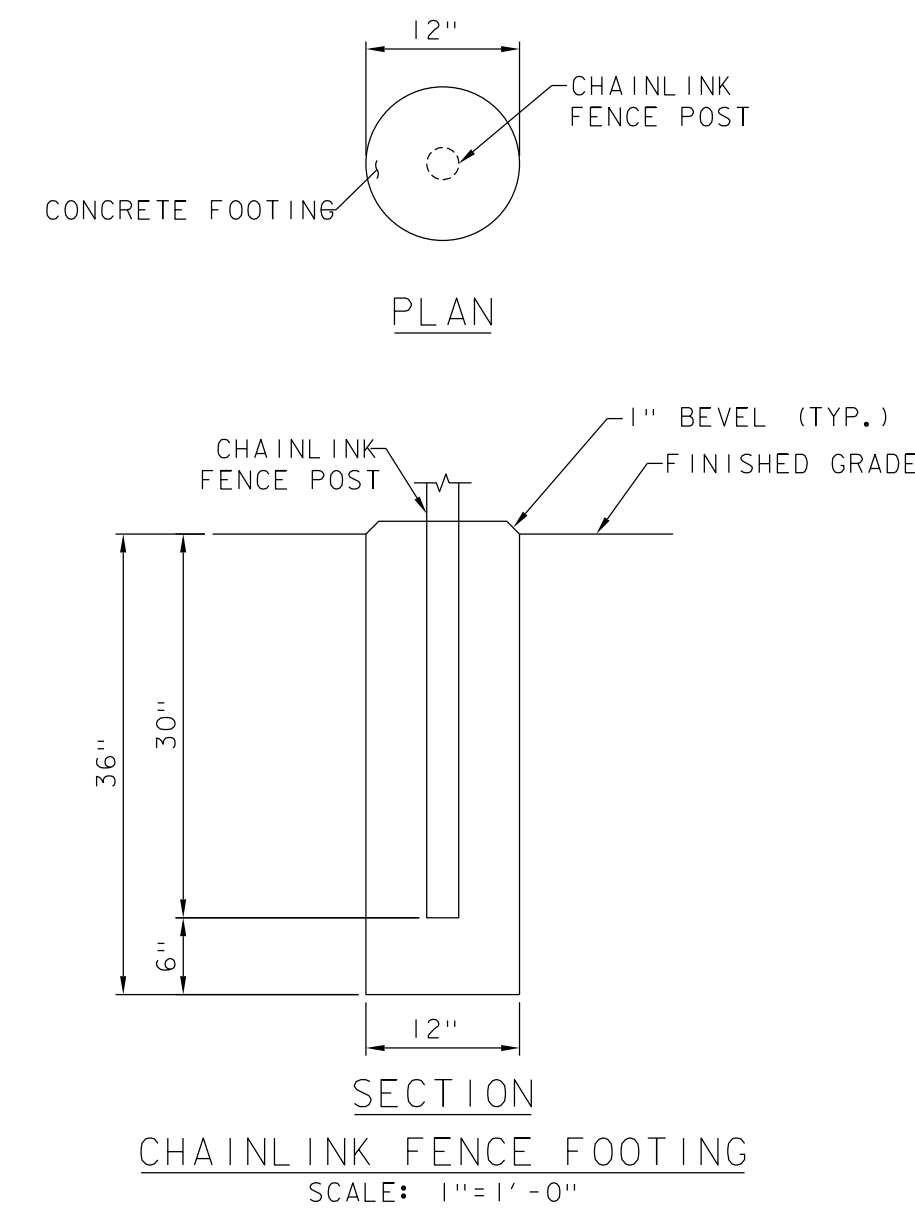
1. UNLESS NOTED OTHERWISE, ALL FASTENERS SHALL BE ASTM A325 HIGH-STRENGTH BOLTS (GALVANIZED). THE NUTS SHALL BE ASTM A563 AND WASHERS SHALL BE ASTM F436.
2. ALL BOLT HOLES SHALL BE STANDARD-SIZED UNLESS OTHERWISE NOTED.

**ERECTION**

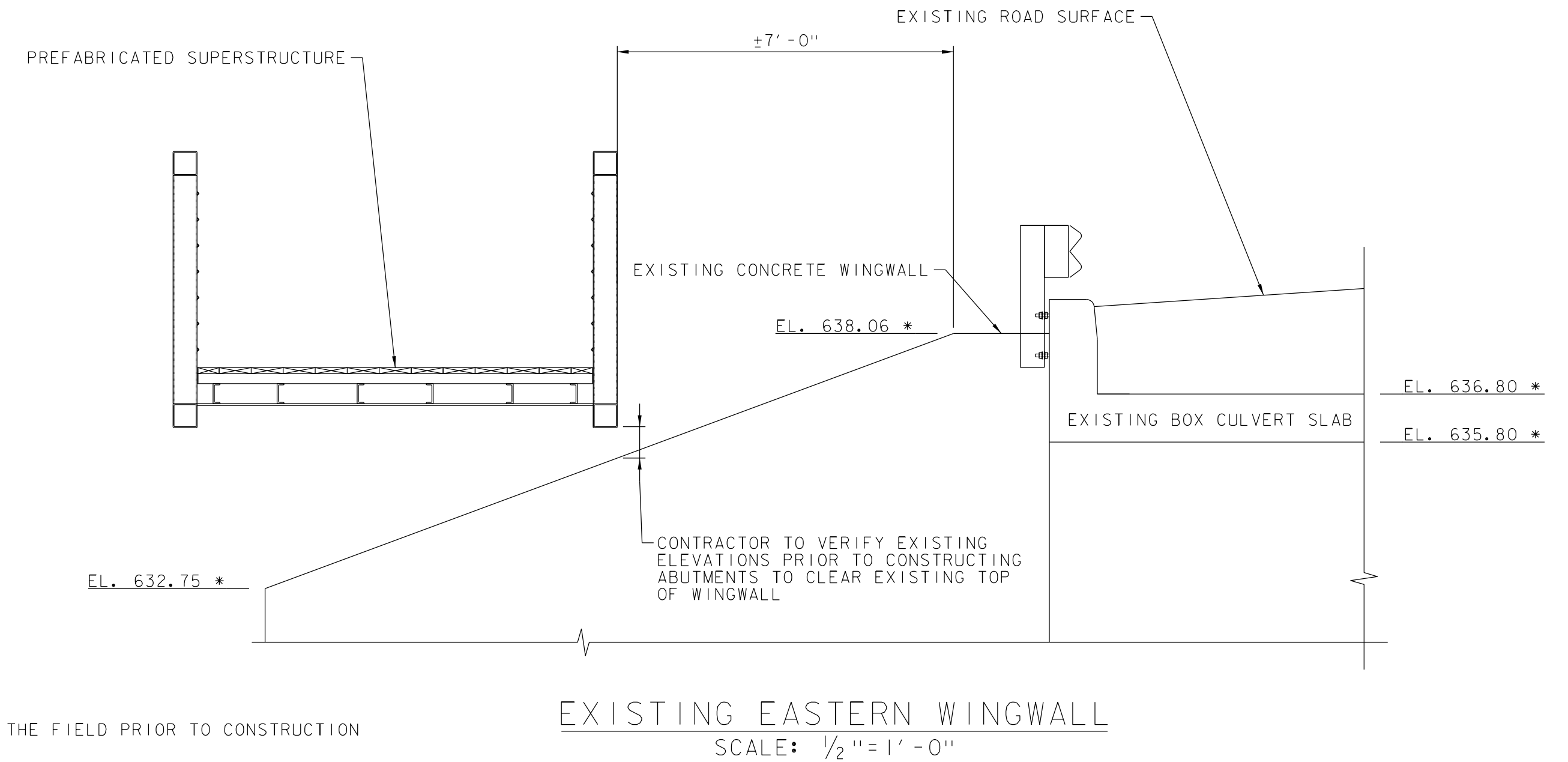
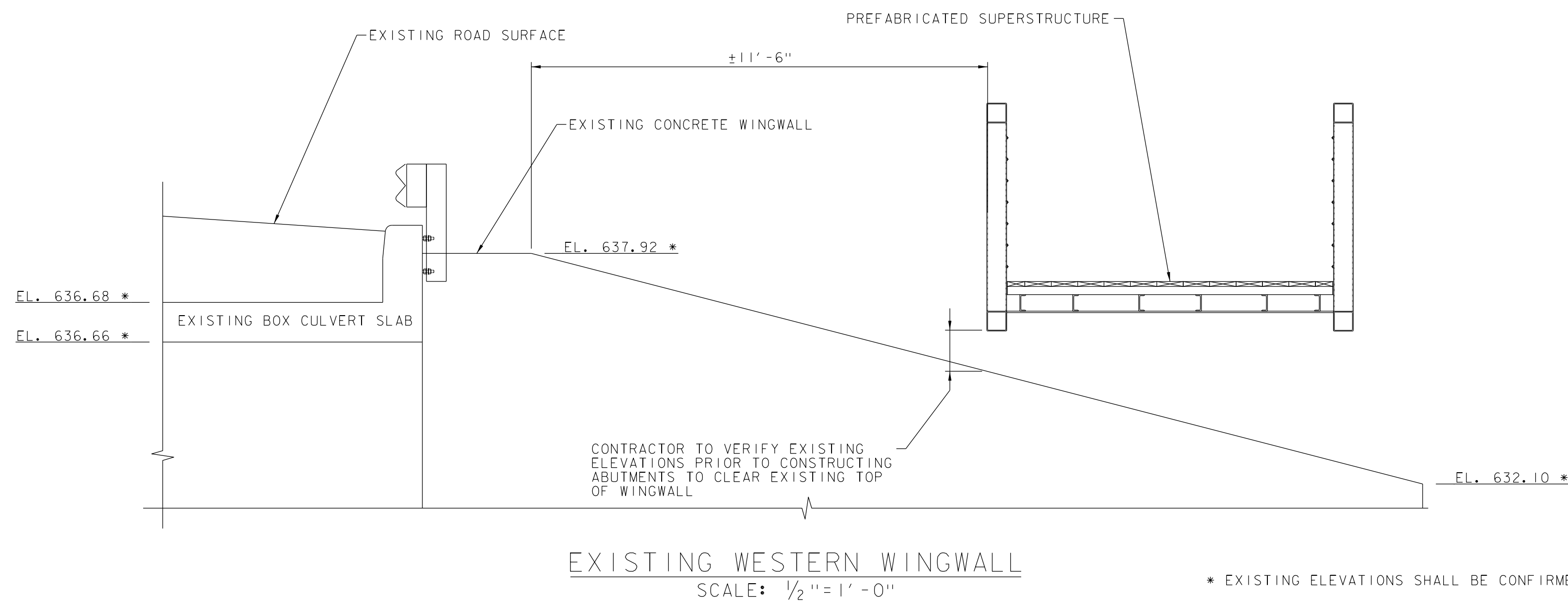
1. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS SELF SUPPORTING.

**STRUCTURAL SUBMITTALS**

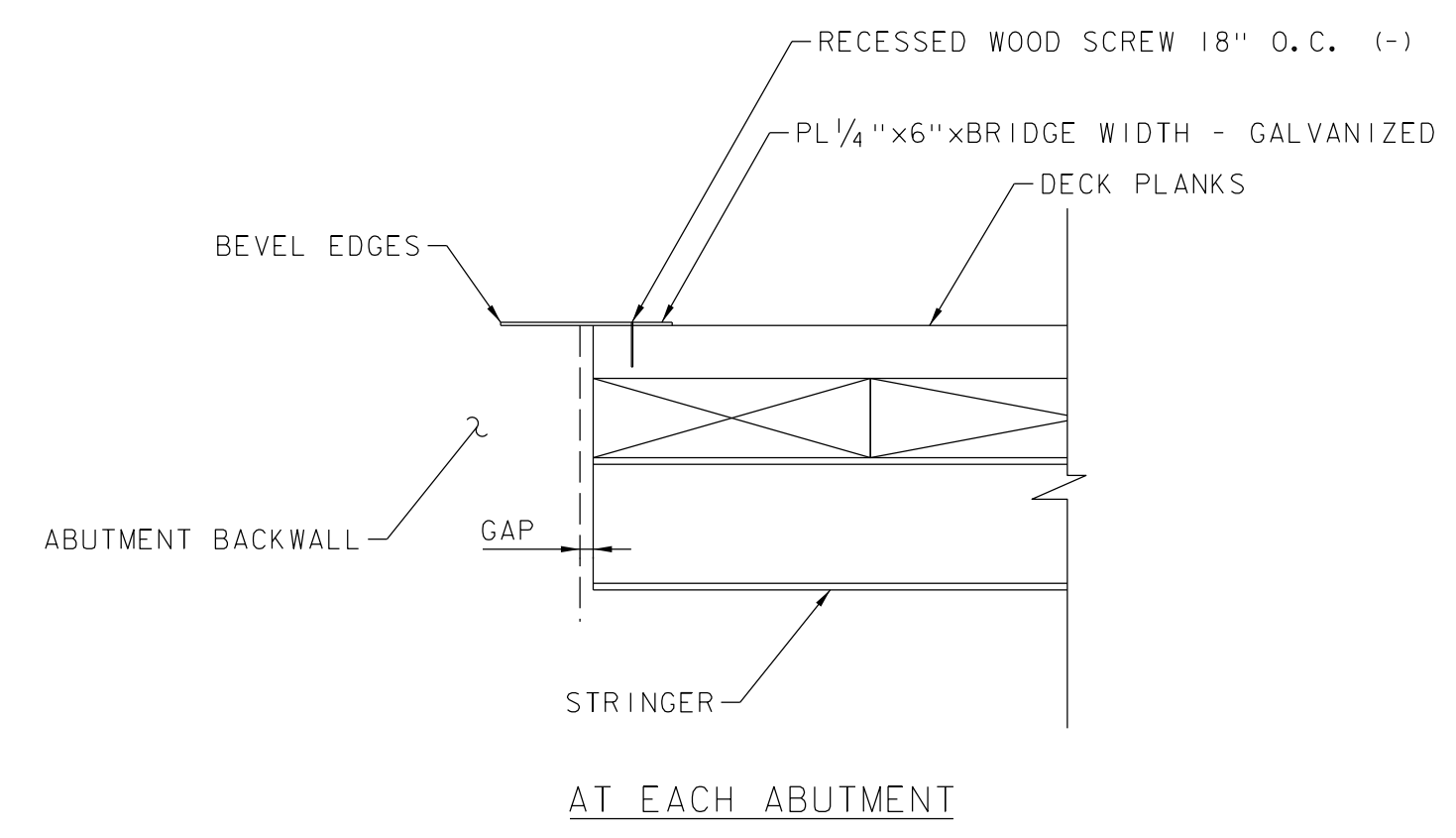
1. REINFORCING STEEL SHOP DRAWINGS
2. PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE SHOP DRAWINGS AND CALCULATIONS
3. FENCE SHOP DRAWINGS



- NOTES**
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
  2. ALL FENCE HARDWARE & CHAINLINK FABRIC SHALL BE PAINTED TO COLOR BLACK.
  3. NO SEPARATE PAYMENT FOR CHAINLINK FENCE FOOTING AND CHAINLINK FENCE WING.



* EXISTING ELEVATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION

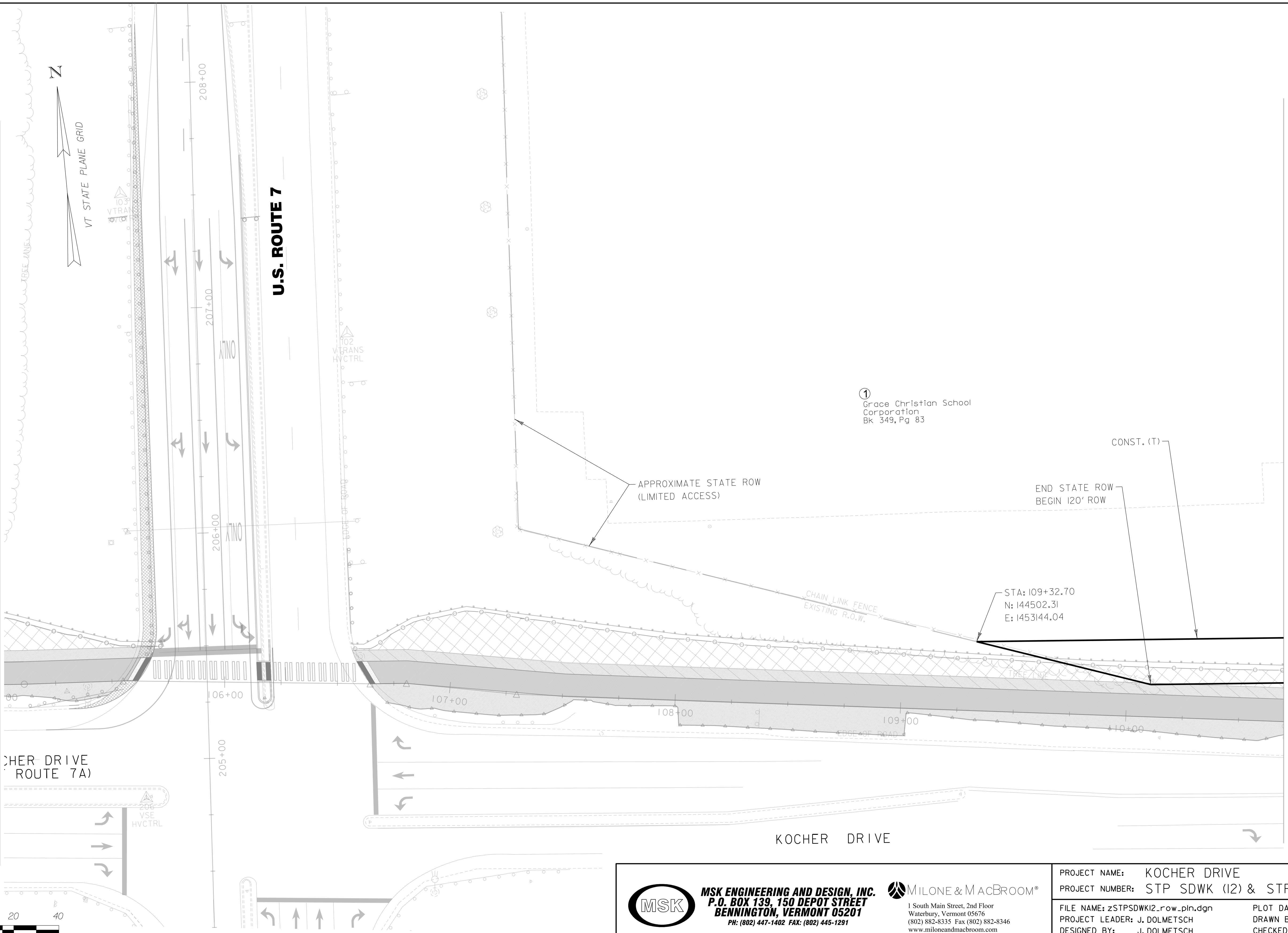


COVER PLATE DETAIL  
SCALE: NOT TO SCALE

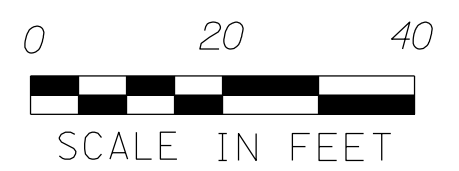
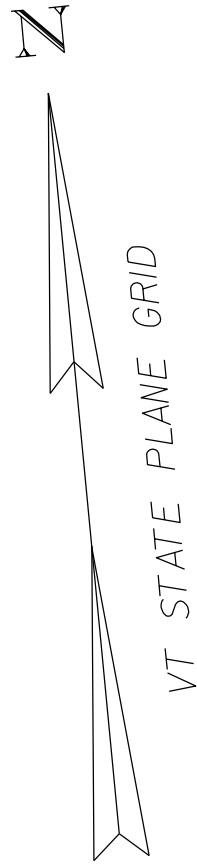


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		PROJECT NUMBER: STP SDWK (I2) & STP BPI8 (I4)
FILE NAME: zSTPSDWK12_STRDET.dgn	PLOT DATE: 10/1/2019	
PROJECT LEADER: J. DOLMETSCH	DRAWN BY: N. YOSKOWITZ	
DESIGNED BY: J. DOLMETSCH	CHECKED BY: J. DOLMETSCH	
BRIDGE PLANS AND DETAILS	SHEET 26 OF 29	





MATCHLINE ACQUISITION SHEET 2



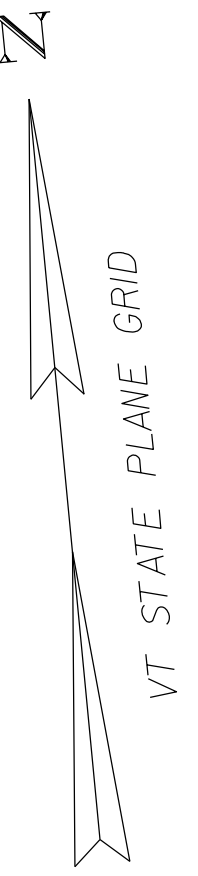
①  
Grace Christian School  
Corporation  
Bk 349, Pg 83



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PROJECT NAME:	KOCHER DRIVE	PLOT DATE:	10/1/2019
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)	DRAWN BY:	N. YOSKOWITZ
FILE NAME:	zSTPSDWK12_row_pln.dgn	CHECKED BY:	J. DOLMETSCH
PROJECT LEADER:	J. DOLMETSCH	RIGHT-OF-WAY ACQUISITIONS	SHEET 28 OF 29



MATCHLINE ACQUISITION SHEET 1

**GRACE CHRISTIAN SCHOOL DRIVEWAY**

STA: III+48.28  
N: 144484.84  
E: 1453354.26

CONST. (T)  
3451 SF

DRIVE (T)  
1814 SF

STA: II2+04.34  
N: 144460.31  
E: 1453407.97

STA: II2+85.91  
N: 144453.86  
E: 1453485.69

②  
James F. Langway,  
Trustee of the  
JFL Bennington Realty Trust  
Bk 504, Pg 159

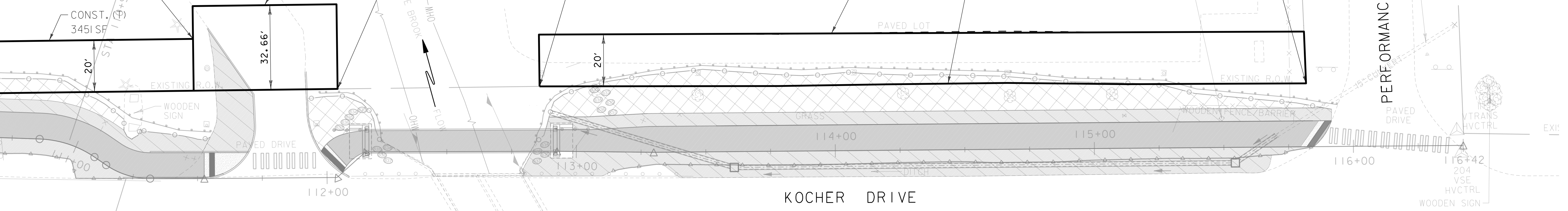
STA: II5+81.91  
N: 144426.86  
E: 1453780.33

CONST. (T)  
5860 SF

APPROXIMATE 120' ROW  
BOUNDARY

EXISTING 15"  
CULVERT

PERFORMANCE DRIVE



KOCHER DRIVE

PI STA III+22.95

BENNINGTON SQUARE SHOPPING CENTER DRIVEWAY



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PROJECT NAME:	KOCHER DRIVE	PLOT DATE:	10/1/2019
PROJECT NUMBER:	STP SDWK (I2) & STP BPI8 (I4)	DRAWN BY:	N. YOSKOWITZ
FILE NAME:	zSTPSDWK12_row_pln.dgn	CHECKED BY:	J. DOLMETSCH
PROJECT LEADER:	J. DOLMETSCH	SHEET	29 OF 29
DESIGNED BY:	J. DOLMETSCH		
RIGHT-OF-WAY ACQUISITIONS			