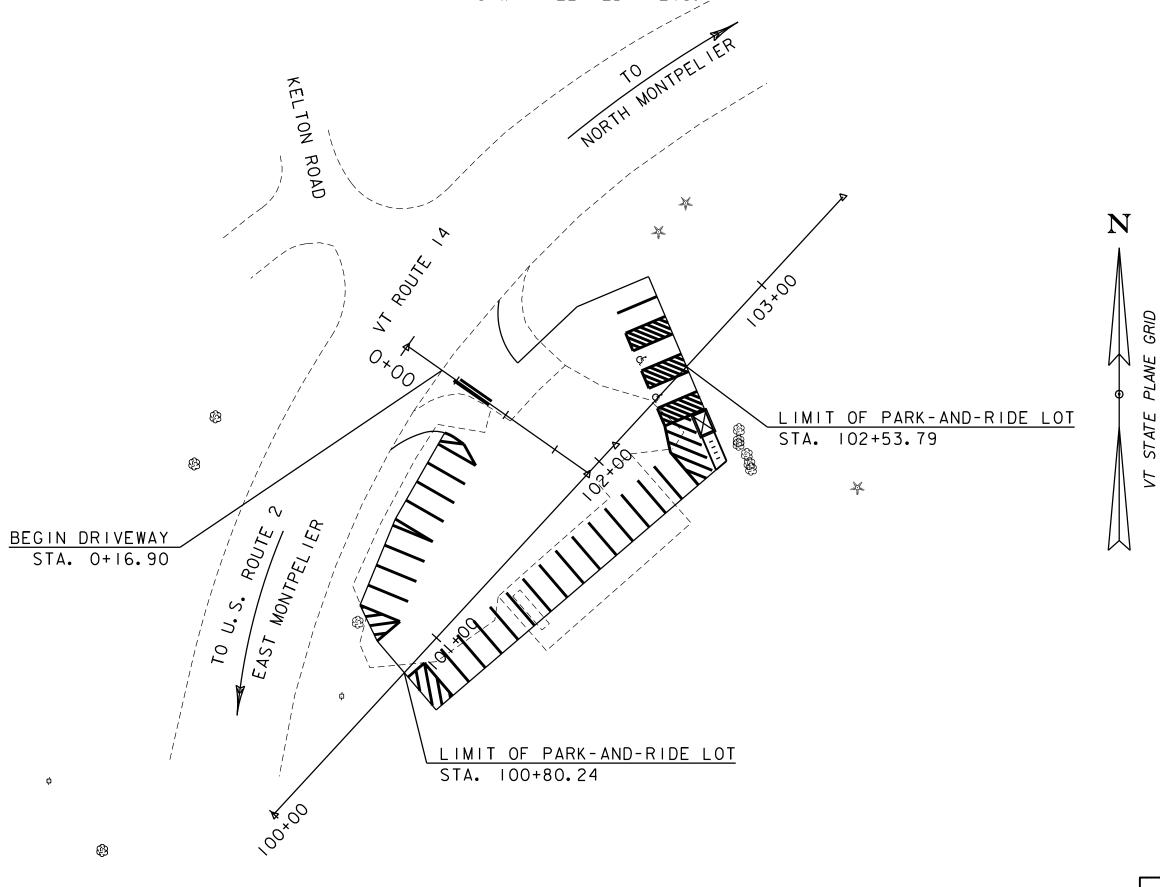
STATE OF VERMONT AGENCY OF TRANSPORTATION

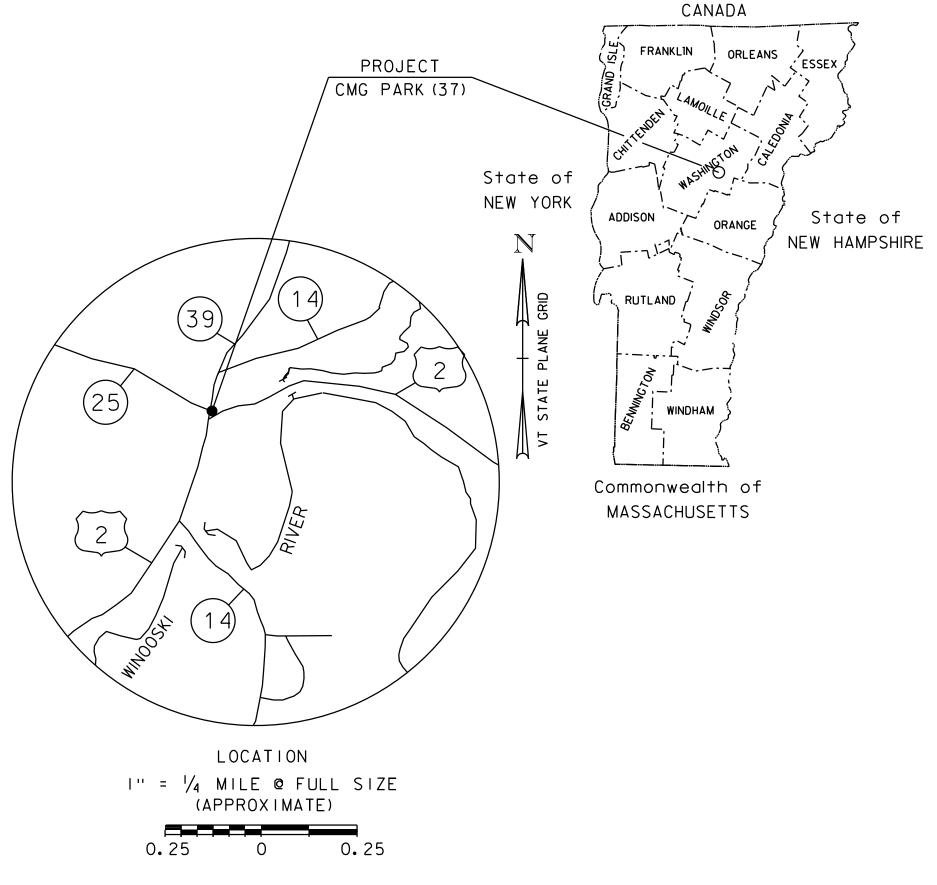


PROPOSED IMPROVEMENT TOWN OF EAST MONTPELIER COUNTY OF WASHINGTON COMMUTER PARK-AND-RIDE LOT

THIS PROJECT IS LOCATED ON THE EAST SIDE OF VT ROUTE 14 IN THE TOWN OF EAST MONTPELIER NEAR THE INTERSECTION OF VT ROUTE 14 AND U.S. ROUTE 2

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES CONSTRUCTION OF A NEW PARK-AND-RIDE LOT WITH 27 SPACES, CONSTRUCTING A BUS SHELTER, SIGNING, PAVEMENT MARKINGS, LIGHTING AND OTHER HIGHWAY RELATED ITEMS.





CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 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 3

SURVEYED BY : VT SURVEY & ENGINEERING SURVEYED DATE : 3/12

DATUM

VERTICAL NAVD 88 FT

HORIZONTAL NAD 83 (CORS) SPC (4400 VT) SFT GRAPHIC SCALE

I'' = 40' @ FULL SIZE

O O IOO FEET

FINAL PLANS 3/28/2016



www.stantec.com

Stantec Consulting Services Inc.
55 Green Mountain Drive
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
Fax: (802) 864-0165

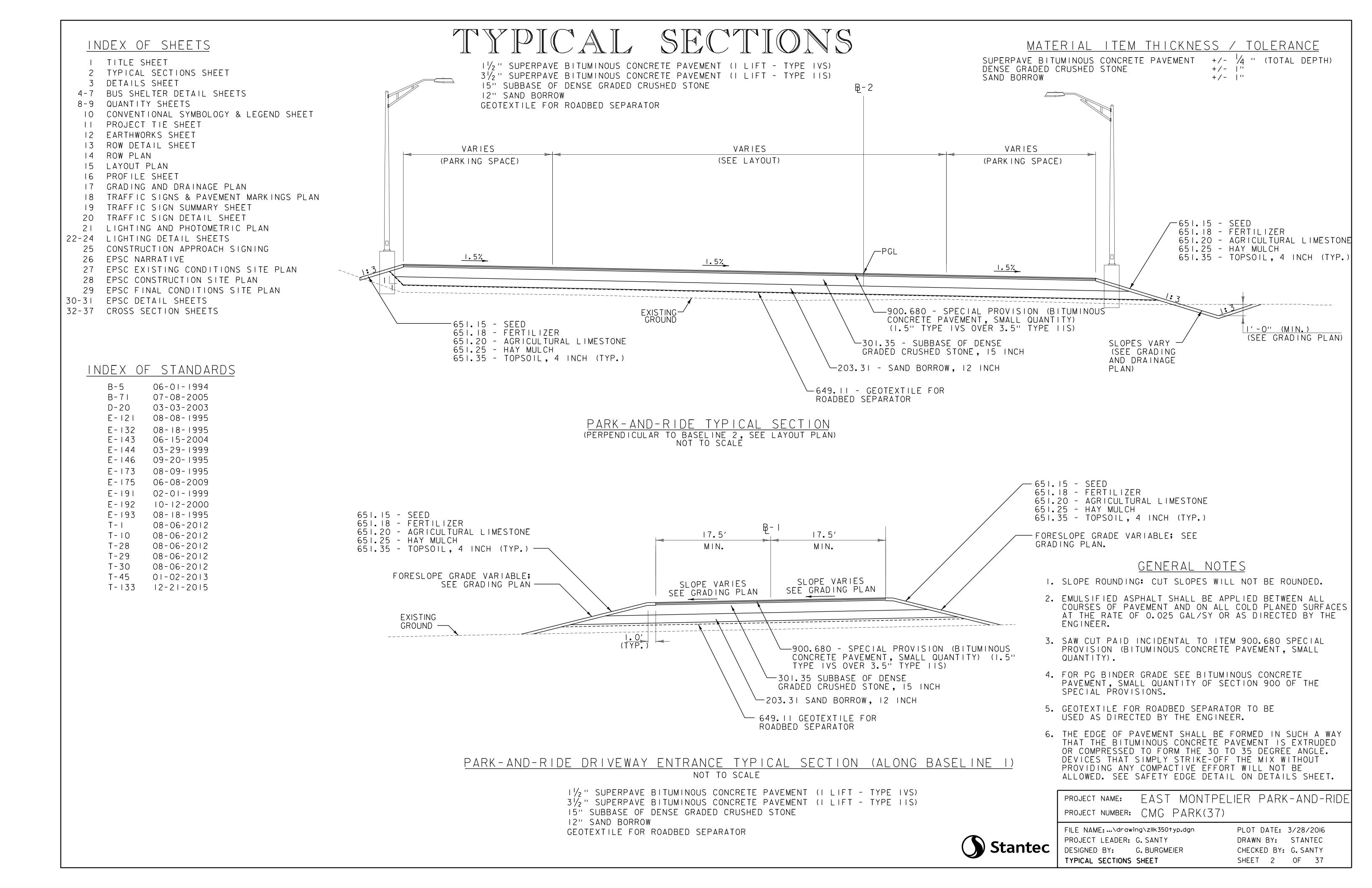
DIRECTOR OF PROJECT DELIVERY

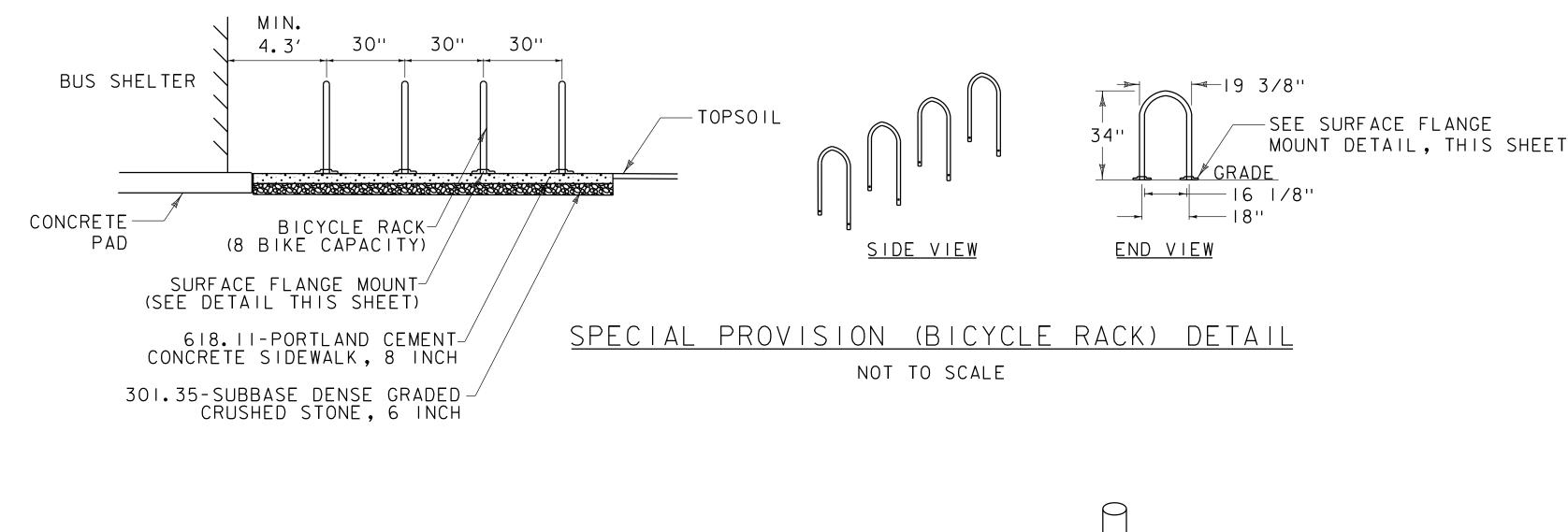
APPROVED ______ DATE ____

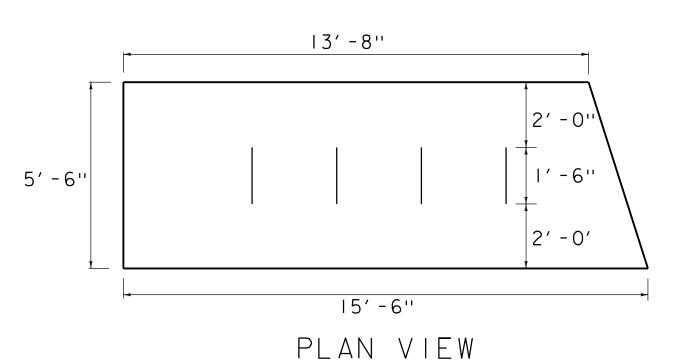
PROJECT MANAGER : WAYNE L. DAVIS

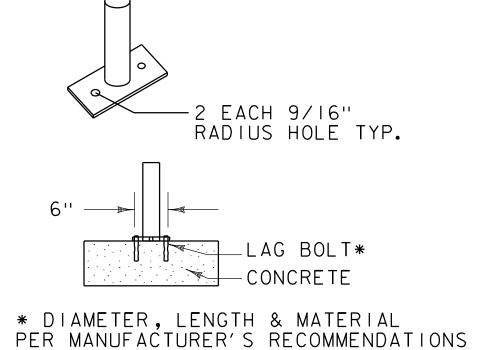
PROJECT NAME : E. MONTPELIER PARK-AND-RIDE PROJECT NUMBER : CMG PARK (37)

SHEET I OF 37 SHEETS



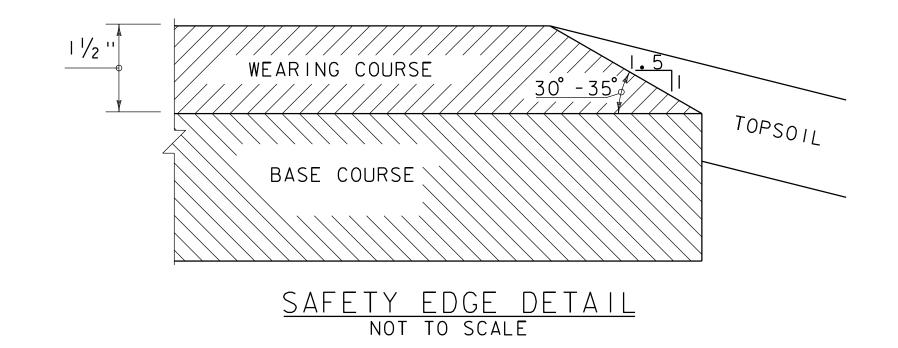


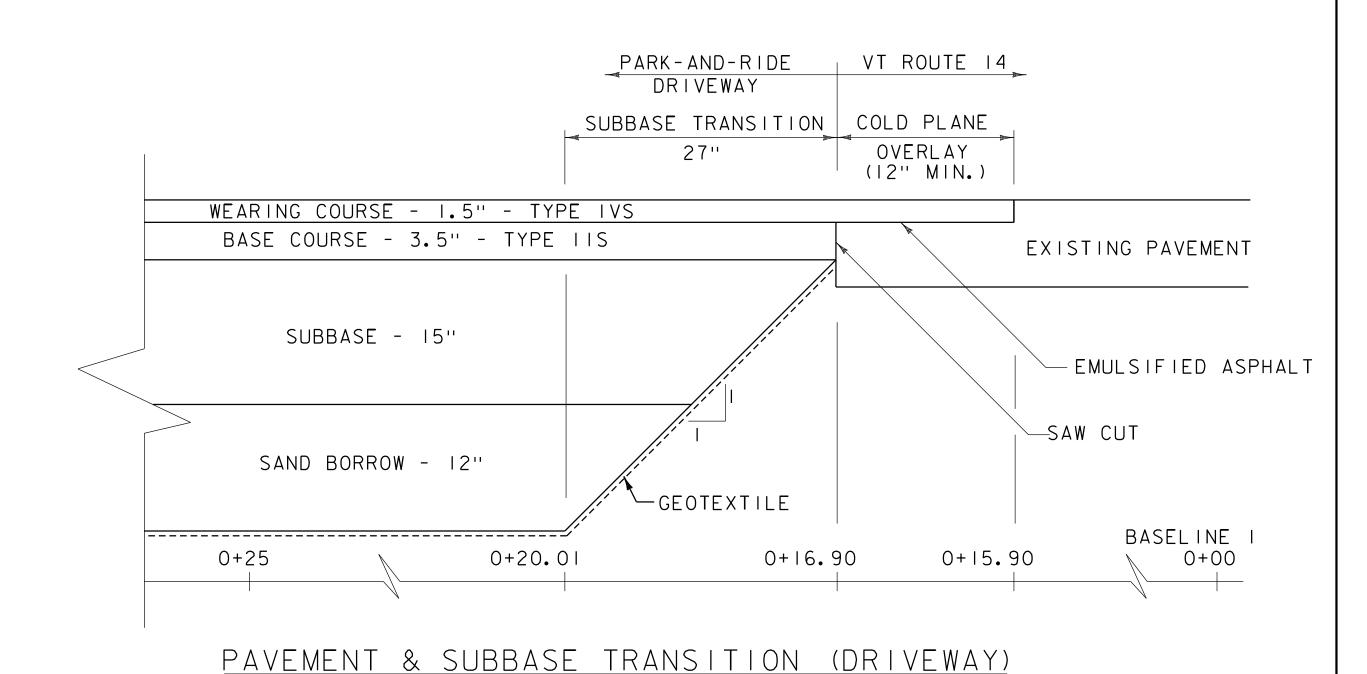




SURFACE FLANGE MOUNT DETAIL
NOT TO SCALE

NOTE: BICYCLE RACK, SURFACE FLANGE MOUNT, AND LAG BOLTS TO BE PAID UNDER ITEM 900.620 SPECIAL PROVISION (BICYCLE RACK).





NOT TO SCALE

	SEEDING FORMULA: LOW GROW / FINE FESCUE										
	LBS	S/AC									
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %							
37.6%	75.2	94	CREEPING RED FESCUE/DEN	90%							
28.4%	56.8	71	SPARTAN HARD FESCUE	85%							
14.4%	28.8	36	AZAY SHEEPS FESCUE	87%							
14.2%	28.4	35.5	ANNUAL RYEGRASS	90%							
1.0%	2	2.5	CROP								
4.3%	8.6	10.8	INERT								
0.1%	0.2	0.2	WEED								
100%	200	250									

PERCENT OF SEED, CROP, WEED OR INERT MAY VARY +/- 2%. VARIETIES OF GRASSES MAY BE SUBSTITUTED ONLY WITH APPROVAL FROM RESIDENT ENGINEER.

MOWING: RECOMMENDED EARLY MOWING ONCE OR TWICE WHEN GRASS REACHES 6 INCHES HEIGHT MAXIMUM TO PREVENT BROADLEAF WEED COMPETITION DURING ESTABLISHMENT PERIOD.

FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED

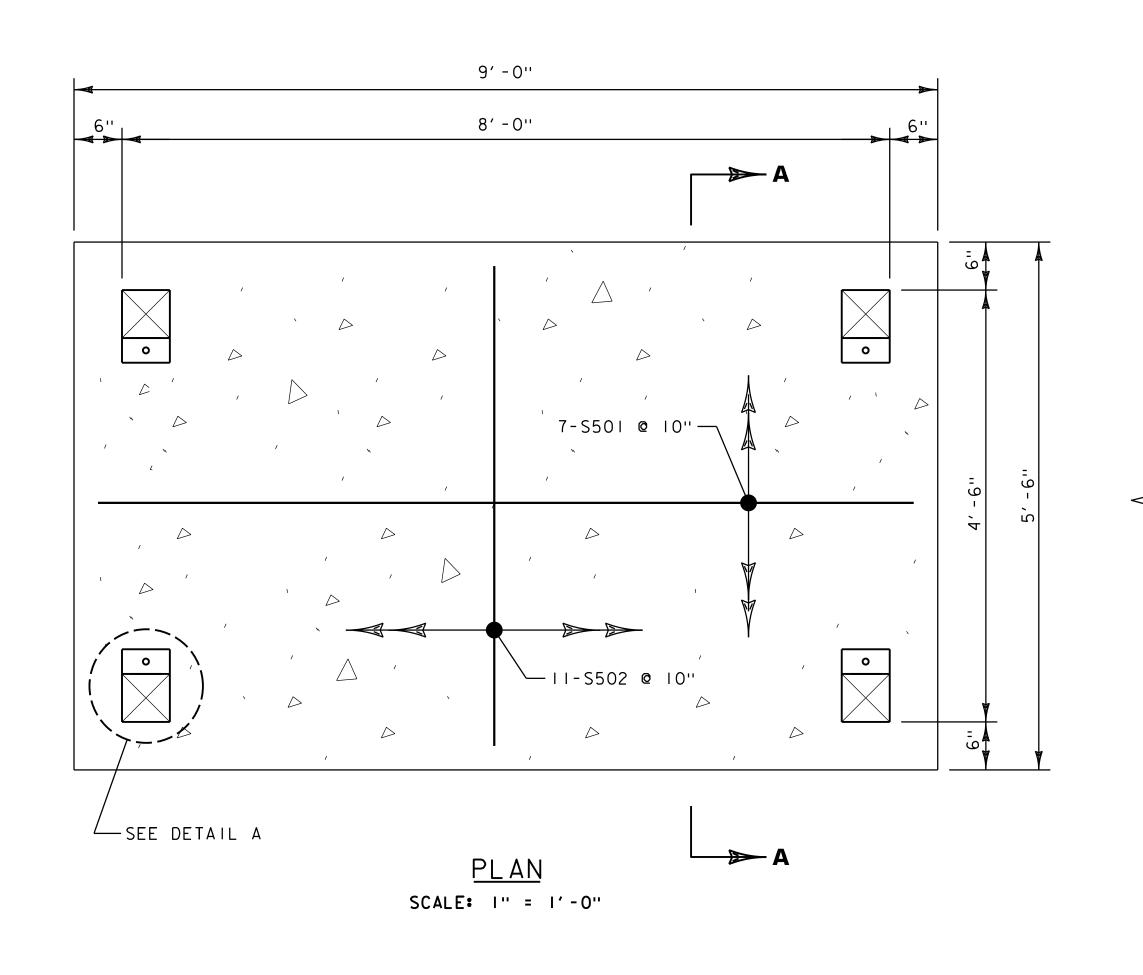
TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

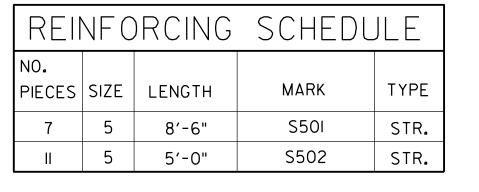


PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\z||k350+yp.dgn PLOT DATE: 3/28/2016
PROJECT LEADER: G. SANTY DRAWN BY: STANTEC
DESIGNED BY: G. BURGMEIER CHECKED BY: G. SANTY

DETAILS SHEET 3 OF 37





— BROOM FINISH

CONCRETE, CLASS B (ITEM 541.25)

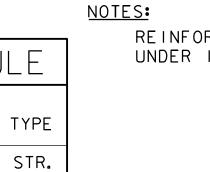
5′ -6"

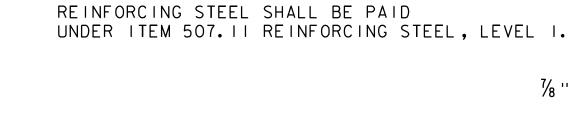
TOPSOIL

TYP.

─ S502 @ 10"

-S501 @ 10"





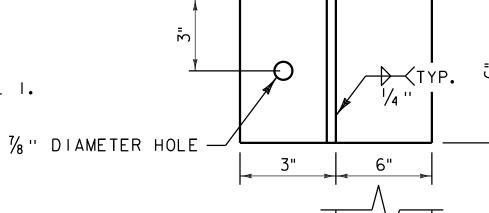
¼" PREFORMED

—— SUBBASE

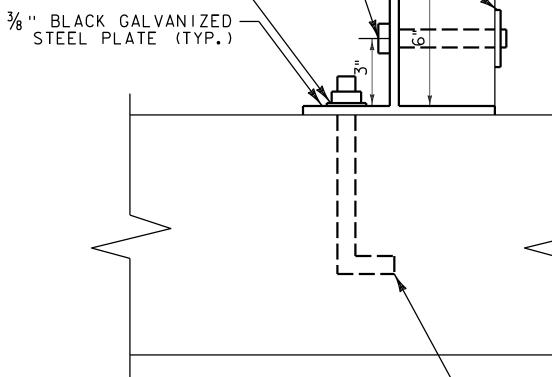
JOINT FILLER

(TYP.)

— LIMITS OF SUBBASE OF DENSE GRADED CRUSHED STONE (ITEM 301.35).



BLACK GALVANIZED POST CONNECTION PLATE WITH ---A $\frac{3}{4}$ " BLACK GALVANIZED BOLT AND NUT AND A 3" SQUARE BLACK GALVANIZED WASHER INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.645 SPECIAL PROVISION (BUS SHELTER) ¾'' BLACK GALVANIZED WASHER — - PAVED LOT



NOTE: DRILL AND EPOXY ANCHORING WILL BE PERMITTED. MINIMUM 3/4" ANCHOR ROD EMBEDMENT INTO CONCRETE SHALL BE 6" AND HAVE A MINIMUM PULL OUT STRENGTH OF

 $\frac{3}{4}$ " BLACK GALVANIZED ANCHOR BOLT $\frac{7}{2}$ INCIDENTAL TO ITEM 541.25 2"

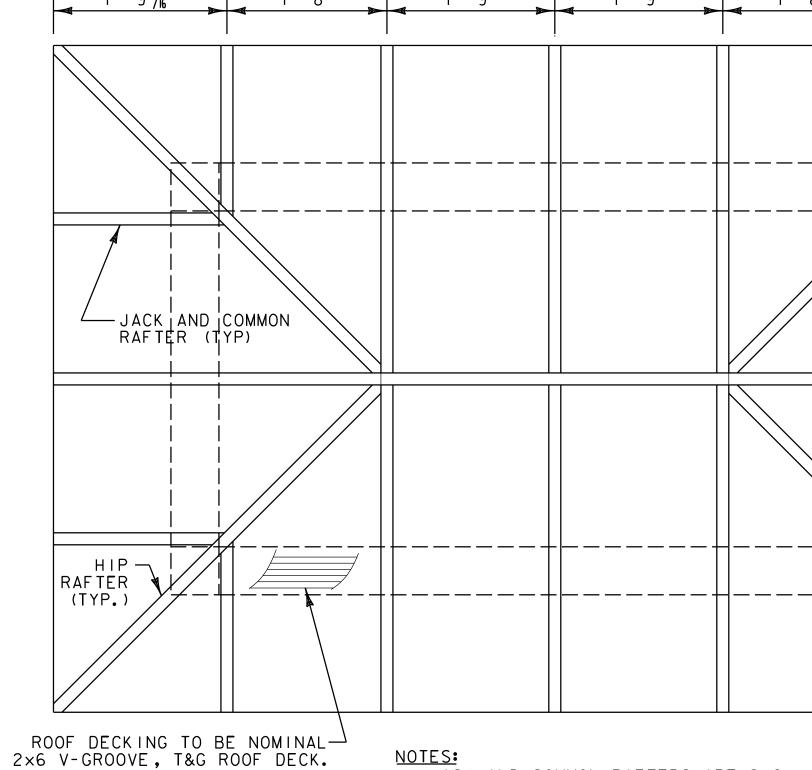
3,000 LBS.

DETAIL A NOT TO SCALE

BUS SHELTER SLAB DETAIL

SECTION A-A

SCALE: I" = I'-0"



I. JACK AND COMMON RAFTERS ARE 2x6. 2. HIP RAFTERS ARE 2×7

3. RIDGE BEAM IS 2x8

ROOF FRAMING SCALE: I" = I'-O"



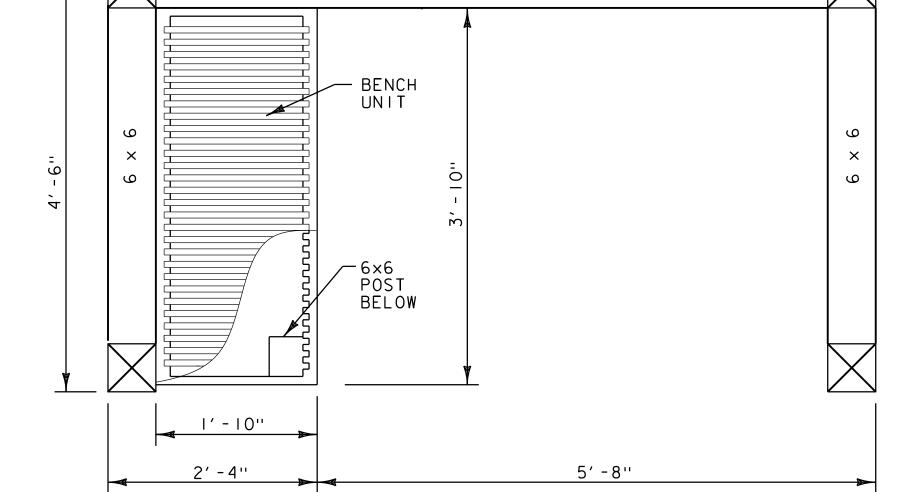
NOTES:

- I. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION, 2011 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2010, AND ITS LATEST REVISIONS.
- 2. REINFORCING PLACEMENT TOLERANCES SHALL BE: SPACING +/- 1/4 " CLEARANCE
- 3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2" BY 1/2"
- 4. WATER REPELLENT SILANE (ITEM 514.10) SHALL BE APPLIED TO ALL EXPOSED CONCRETE.
- 5. ALL MATERIALS AND WORK DETAILED ON THIS SHEET SHALL BE INCLUDED UNDER ITEM 900.645 SPECIAL PROVISION (BUS SHELTER) UNLESS OTHERWISE NOTED.
- 6. ALL WOODEN PEGS SHALL BE I" DIAMETER OAK.
- 7. THE STRUCTURE WAS DESIGNED FOR THE FOLLOWING LOADS: GROUND SNOW LOAD = 100 psf BASIC WIND SPEED = 90 mph CATEGORY I
- 8. ALL DIMENSIONS ARE NOMINAL. MEMBERS SHALL BE SURFACED ON FOUR SIDES.
- 9. TIMBER FRAMING SHALL BE APPEARANCE GRADE WHITE OAK (NO. 1). ROOF SHEATHING SHALL BE NO. 1 OR NO. 2 SPF. BENCH FRAMING SHALL BE APPEARANCE GRADE WHITE OAK (NO. 1).
- 10. SEE BUS SHELTER SPECIAL PROVISION IN CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME: zllk350shltr_det.dgn PROJECT LEADER: G. SANTY DESIGNED BY: J. HUNGERFORD BUS SHELTER DETAILS I

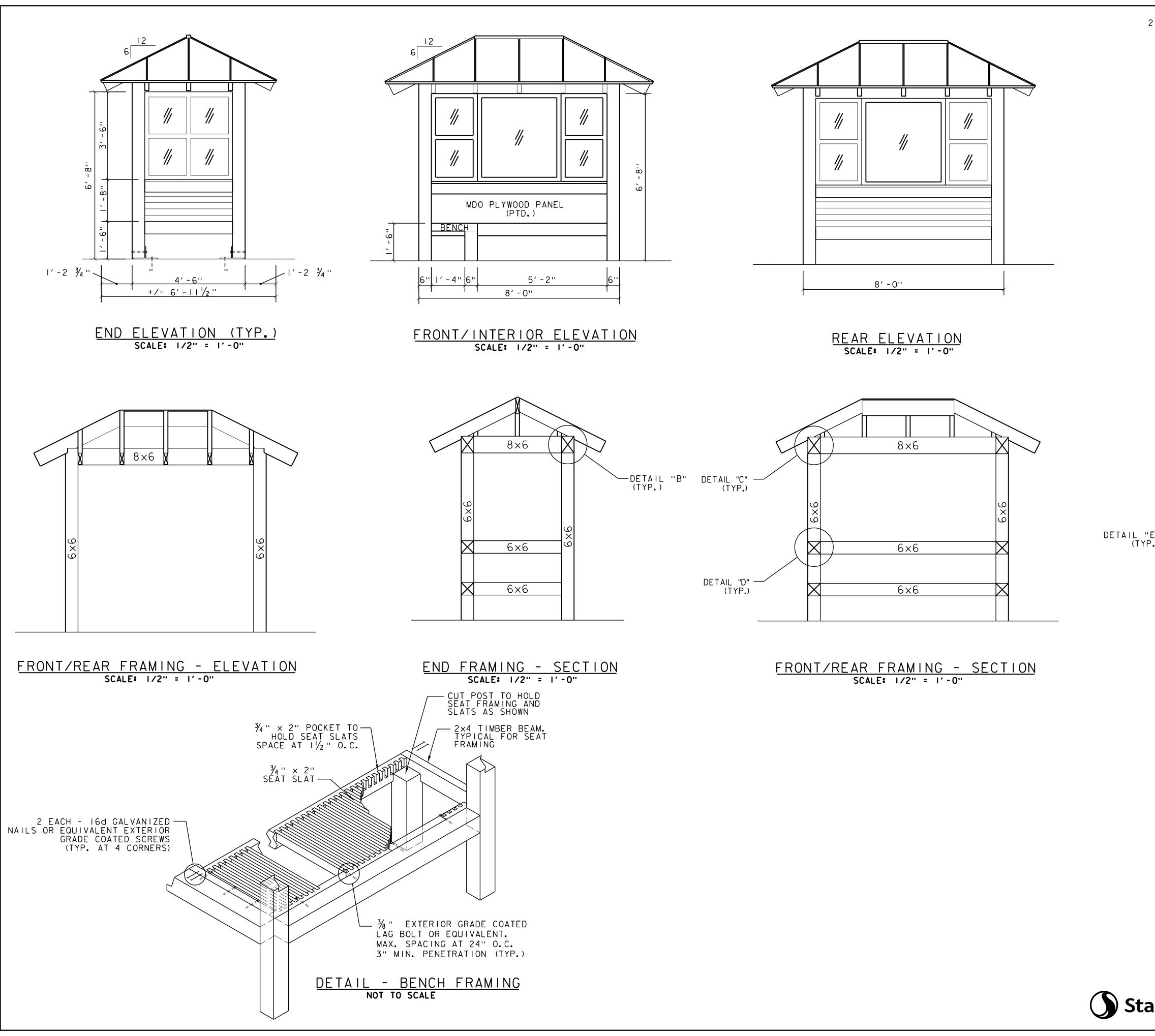
PLOT DATE: 3/28/2016 DRAWN BY: L. BUXTON CHECKED BY: G. BOGUE SHEET 4 OF 37

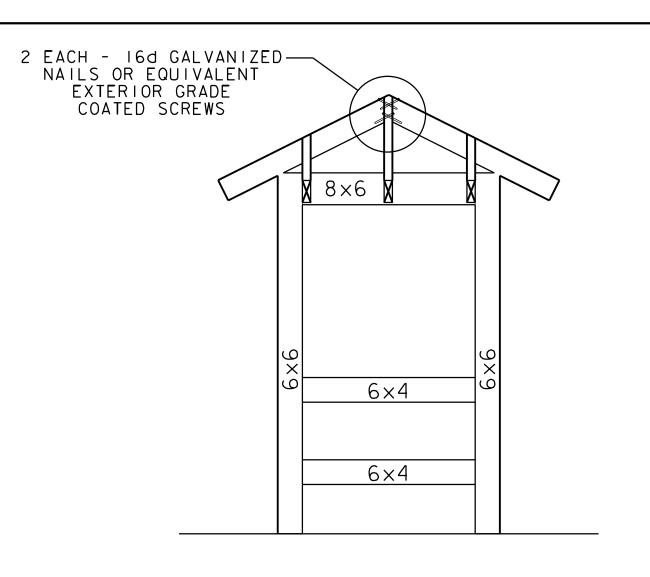


8'-0"

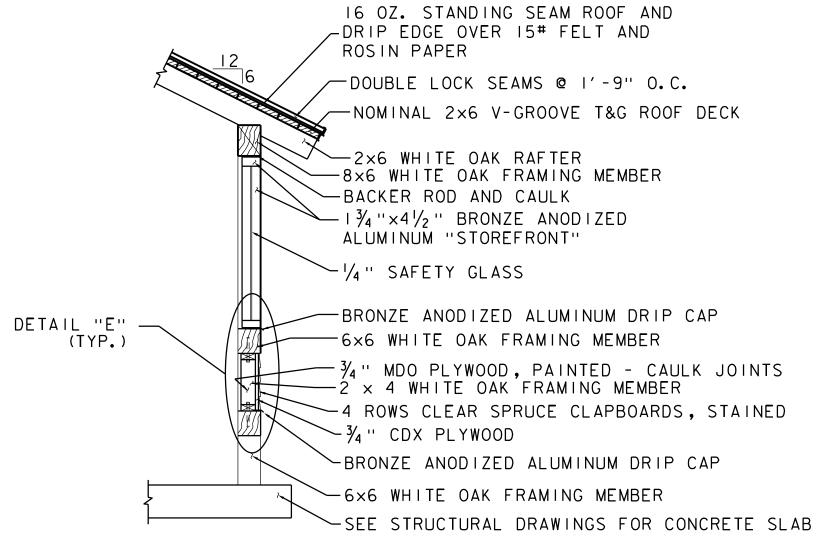
6 × 6

PLAN VIEW SCALE: I" = I'-0"





END FRAMING - ELEVATION SCALE: 1/2" = 1'-0"



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

- I. JACK AND COMMON RAFTERS ARE 2×6. 2. HIP RAFTERS ARE 2×7 3. RIDGE BEAM IS 2×8

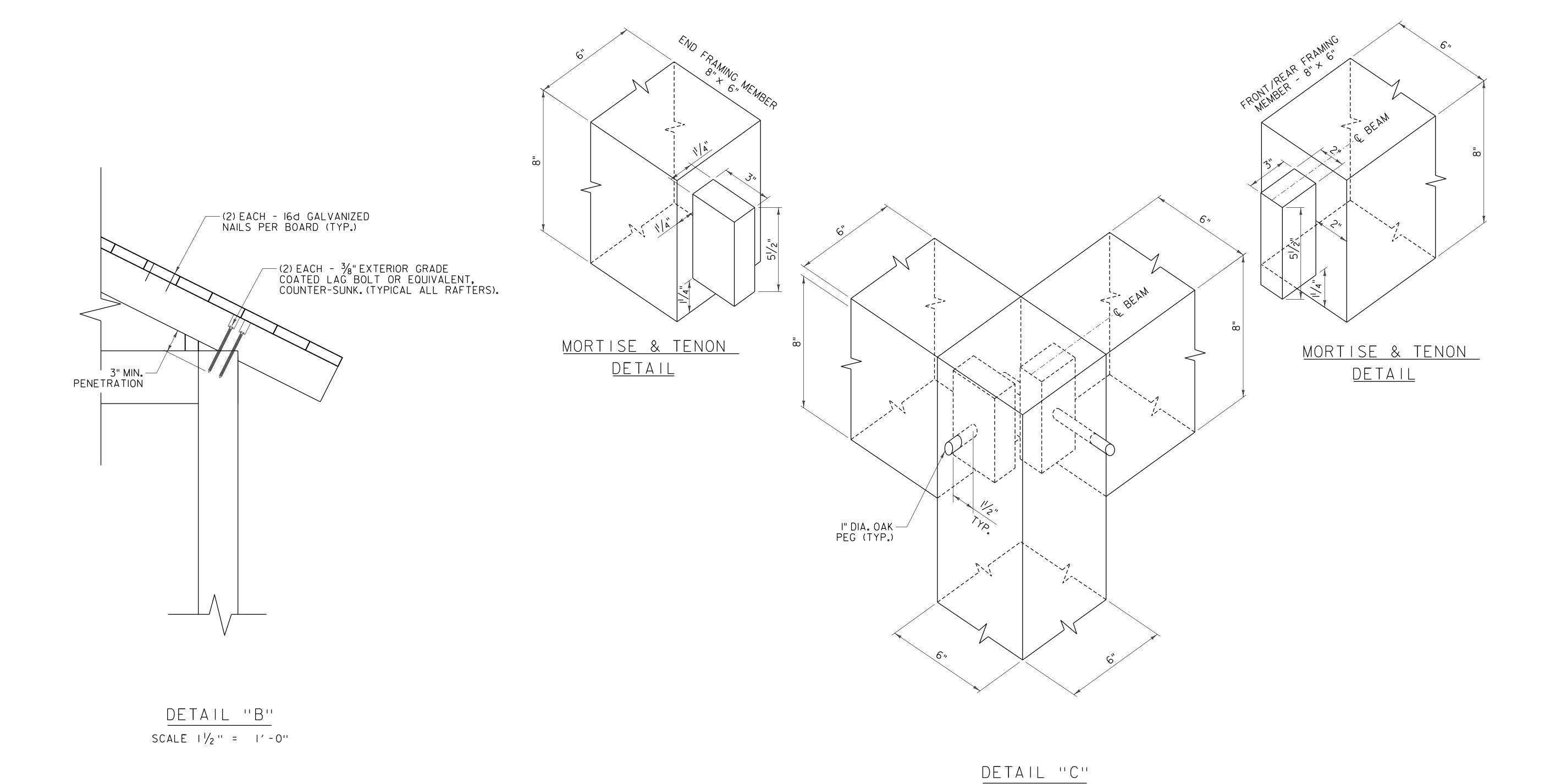
NOTE:
FOR DETAILS B & C, SEE BUS SHELTER DETAILS 3. FOR DETAILS D & E, SEE BUS SHELTER DETAILS 4. ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)



FILE NAME: zllk350shltr_det.dgn PROJECT LEADER: G. SANTY DESIGNED BY: J. HUNGERFORD BUS SHELTER DETAILS 2

PLOT DATE: 3/28/2016 DRAWN BY: L. BUXTON CHECKED BY: G. BOGUE SHEET 5 OF 37



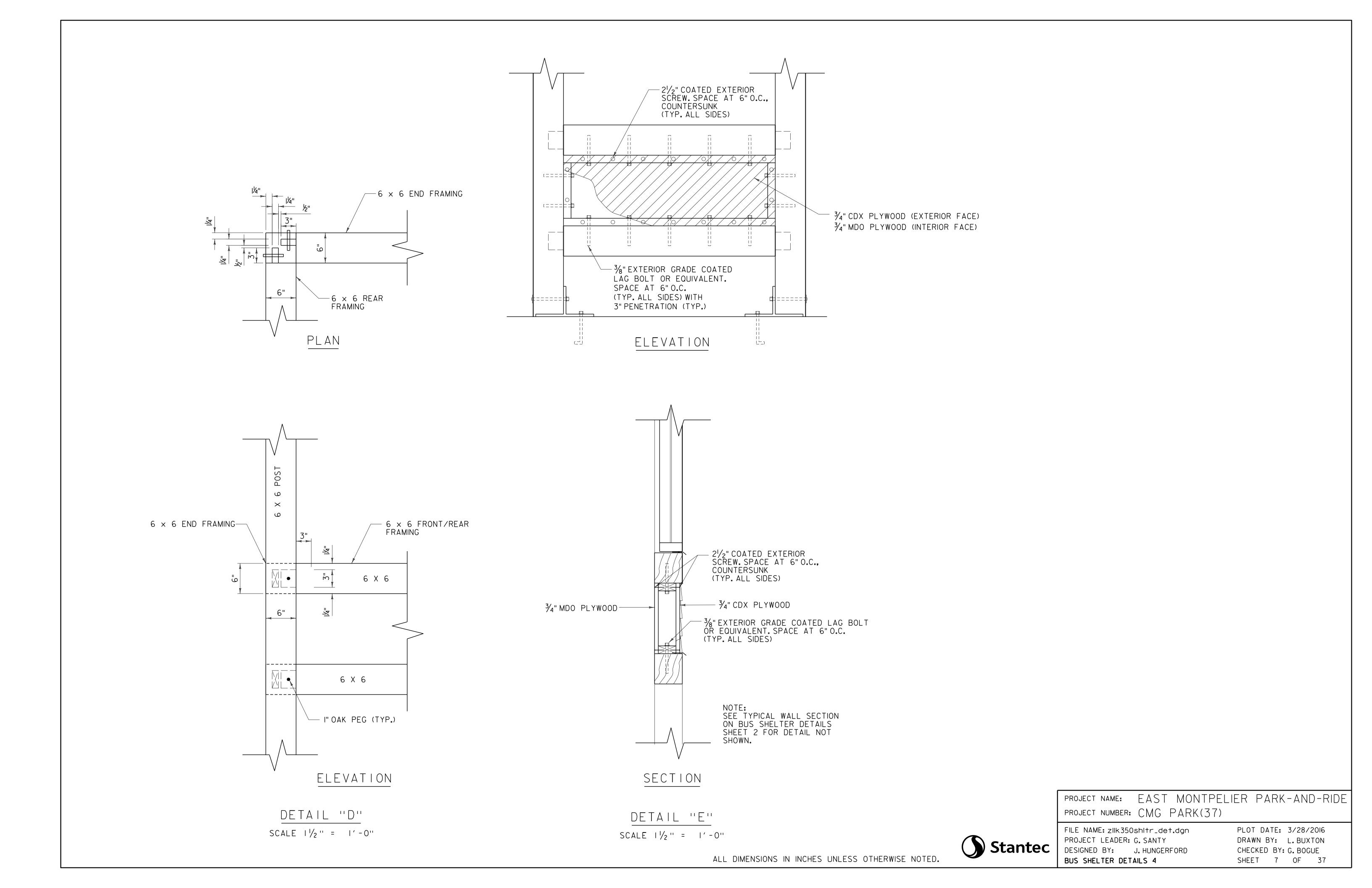
Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME: zIIk350shltr_det.dgn PROJECT LEADER: G. SANTY DESIGNED BY: J. HUNGERFORD BUS SHELTER DETAILS 3

PLOT DATE: 3/28/2016
DRAWN BY: L.BUXTON
CHECKED BY: G.BOGUE
SHEET 6 OF 37

SCALE 1 1/2 " = 1'-0"



STATE OF VERMONT AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES				TOTALS		DESCRIPTIONS					DETAILED SUMMARY OF QUANTITIES
	ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	GRAND TOTAL FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIE	s UNIT	ITEMS
	1			1	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-			COMMON EXCAVATION
	1			1	EACH	DEMOLITION AND DISPOSAL OF BUILDING	202.10	-	202	CY	TOTAL FROM EARTHWORKS SHEET
	210			210	CY	COMMON EXCAVATION	203.15	8	8	CY	ROUNDING
	670			670	CY	EARTH BORROW	203.30	9	210	CY	TOTAL
	550			550	CY	SAND BORROW	203.31	2			
	80			80	CY	TRENCH EXCAVATION OF EARTH	204.20	0.8			SUBBASE OF DENSE GRADED CRUSHED STONE
	2			2	CY	TRENCH EXCAVATION OF ROCK	204.21	0.8	666	CY	PARKING LOT AREA
	1			1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	4	CY	ROUNDING
	670			670	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	4	670	CY	TOTAL
	4			4	CWT	EMULSIFIED ASPHALT	404.65	0.7			
	1			1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-			
	120			120	LB	REINFORCING STEEL, LEVEL I	507.11	1			SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT,
	1			1 1	GAL		514.10	0.6			SMALL QUANTITY)
	2			2	CY	CONCRETE, CLASS B	541.25	0.5	325	TON	PARKING LOT AND ENTANCE DRIVE (TYPE IIS)
	2			2			608.25		139	TON	PARKING LOT AND ENTANCE DRIVE (TYPE IVS)
	1			1	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I		EST.	6	TON	ROUNDING
	10			10	HR	POWER BROOM RENTAL, TYPE I	608.30	EST.	470	TON	TOTAL
	1			1	HR	TRUCK RENTAL	608.37	EST.			
	73			73	MGAL	DUST CONTROL WITH WATER	609.10	5			
	80			80	LF	REMOVAL OF EXISTING CURB	616.41	8			
	10			10	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	1			
	2			2	EACH	YIELDING MARKER POSTS	619.17	-			
	70			70	LF	REMOVAL OF EXISTING FENCE	620.55	7			
	2			2	EACH	REMOVAL AND DISPOSAL OF GUIDE POSTS	621.81	-			
	100			100	HR	FLAGGERS	630.15	EST.			
			1	1	LS	FIELD OFFICE, ENGINEERS	631.10	-			
			1	1	LS	TESTING EQUIPMENT, CONCRETE	631.16	-			
			1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
			3000	3000	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-			
	1			1	LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
	1			1	LS	TRAFFIC CONTROL	641.10	-			
	1010			1010	LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	6			
	35			35	LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	1			
	30			30	LF	DURABLE 24 INCH STOP BAR, EPOXYPAINT	646.483	4			
	2			2	EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	-			
	2060			2060	SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	2			
		100		100	LB	SEED	651.15	EST.			
		200		200	LB	FERTILIZER	651.18	EST.			
		1		1	TON	AGRICULTURAL LIMESTONE	651.20	EST.			
		1		1	TON	HAYMULCH	651.25	EST.			
		200		200				E31.			
		200		200	CY	TOPSOIL	651.35	5			

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350frm.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
OUANTITY SHEET I

PLOT DATE: 3/28/2016 DRAWN BY: G. BURGMEIER CHECKED BY: G. SANTY SHEET 8 OF 37

STATE OF VERMONT AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMA	ARY OF ES	TIMATED QUAN	ITITIES			TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES			
				ROADWAY	EROSION FULL CONTROL ITEI	C.E. GRAND TOTAL FINA	AL UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS	
					1200	1200	SY	TEMPORARY EROSION MATTING	653.20	5				
					30	30	CY	TEMPORARY STONE CHECK DAM, TYPE I	653.25	0.4				
					35	35	CY	VEHICLE TRACKING PAD	653.35	5				
					1	1	EAC	H INLET PROTECTION DEVICE, TYPE I	653.40	-				
					700	700	LF	PROJECT DEMARCATION FENCE	653.55	10				
				63		63	SF	TRAFFIC SIGNS, TYPE A	675.20	0.17				
				90		90	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-				
				4		4	EAC	H REMOVING SIGNS	675.50	-				
				700		700	LF	WIRED CONDUIT (2")(SCH 80)	678.23	16				
				2		2	EAC	H JUNCTION BOX	678.26	-				
				4		4	EAC	H LIGHT POLE BASE	679.21	-				
				4		4	EAC	H LIGHT POLE	679.45	-				
				4		4	EAC	H BRACKETARM	679.47	-				
				1		1		H POWER DROP STANCHION, STREET LIGHTING	679.55	-				
				1		1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-				
				1		1	EAC	H SPECIAL PROVISION (BICYCLE RACK)	900.620	-				
				4		4	EAC	H SPECIAL PROVISION (EV LEVEL 1 - 120V 20A OUTLET)	900.620	-				
				4		4		H SPECIAL PROVISION (LUMINAIRE, LED)	900.620	-				
				1		1	LS	SPECIAL PROVISION (BUS SHELTER)	900.645	-				
				1		1	LU	,	900.650	-				
								QUANTITY)(N.A.B.I.)						
				1		1	LU		900.650	-				
				480		480	1OT	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	7				

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350frm.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
OUANTITY SHEET 2

PLOT DATE: 3/28/2016 DRAWN BY: G. BURGMEIER CHECKED BY: G. SANTY SHEET 9 OF 37

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.	ABBREV	IATIONS (CODES) & SYMBOLS
R.O.W.	CODE CH CONST CUL D&C DIT DR DRIVE EC HWY I&M LAND	DESCRIPTION CHANNEL EASEMENT CONSTRUCTION EASEMENT CULVERT EASEMENT DISCONNECT & CONNECT DITCH EASEMENT DRAINAGE EASEMENT DRIVEWAY EASEMENT EROSION CONTROL HIGHWAY EASEMENT INSTALL & MAINTAIN EASEMENT LANDSCAPE EASEMENT
	R&RES R&REP SR UE (P) (T)	REMOVE & RESET REMOVE & REPLACE SLOPE RIGHT UTILITY EASEMENT PERMANENT EASEMENT TEMPORARY EASEMENT
■ □ ⊚ ⊠ O [LENG	BNDNS BNDNS IPNS IPNS CALC PROW	BOUND SET BOUND TO BE SET IRON PIN SET IRON PIN TO BE SET EXISTING ROW POINT PROPOSED ROW POINT LENGTH CARRIED ON NEXT SHEET

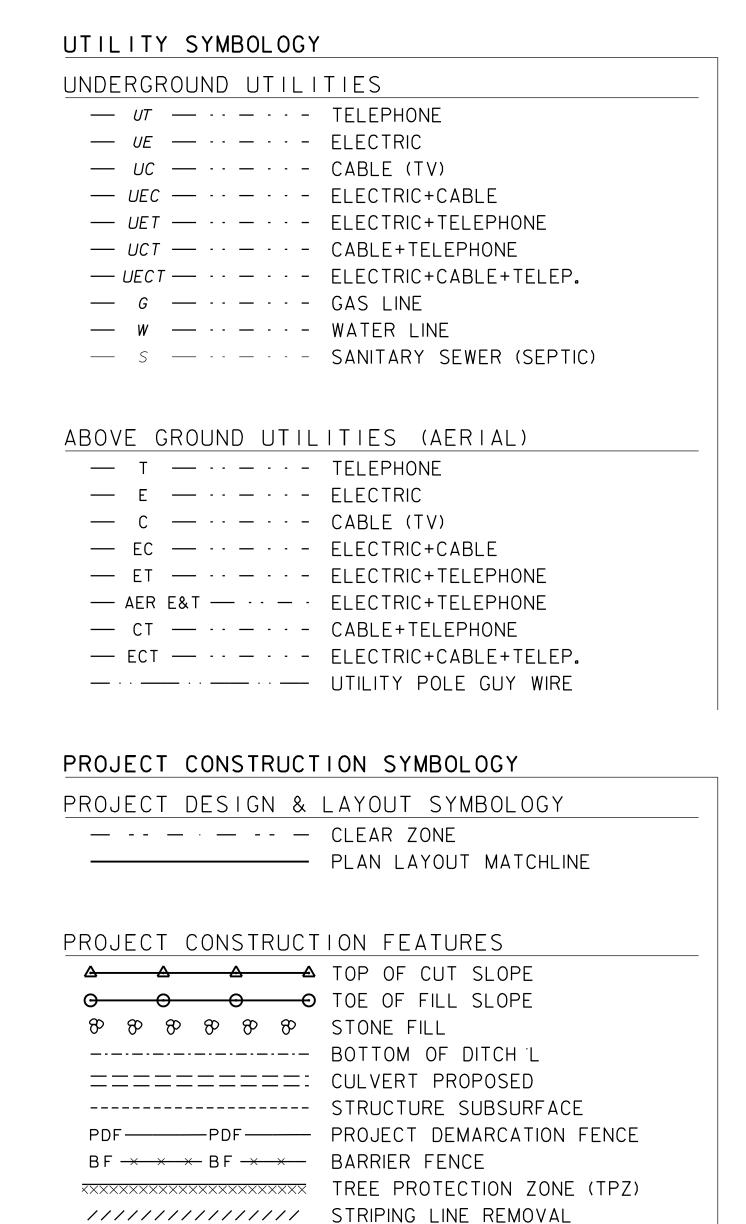
COMMON TOPOGRAPHIC POINT SYMBOLS

COMMON	TOPOGR	APHIC POINT SYMBOLS
POINT	CODE	DESCRIPTION
(:)	APL	BOUND APPARENT LOCATION
•	ВМ	BENCH MARK
•	BND	BOUND
	СВ	CATCH BASIN
Þ	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
Ċ	EL	ELECTRIC POWER POLE
•	FPOLE	FLAGPOLE
\odot	GASFIL	GAS FILLER
\odot	GP	GUIDE POST
M	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
•	GUYW	GUY WIRE
×	GV	GATE VALUE
	Н	TREE HARDWOOD
\triangle	HCTRL	CONTROL HORIZONTAL
\triangle	HVCTRL	CONTROL HORIZ. & VERTICAL
.	HYD	HYDRANT
@	IP	IRON PIN
⊚	IPIPE	IRON PIPE
÷	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
\odot	MH	MANHOLE (MH)
•	MM	MILE MARKER
Θ	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
$\overline{\circ}$	SIGN	SIGN
Ŗ	STUMP	STUMP
	TEL	TELEPHONE POLE
⊙	TIE	TIE
0.0	TSIGN	SIGN W/DOUBLE POST
人	VCTRL	CONTROL VERTICAL
0	WELL	WELL
M	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
АН	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (IOOFT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

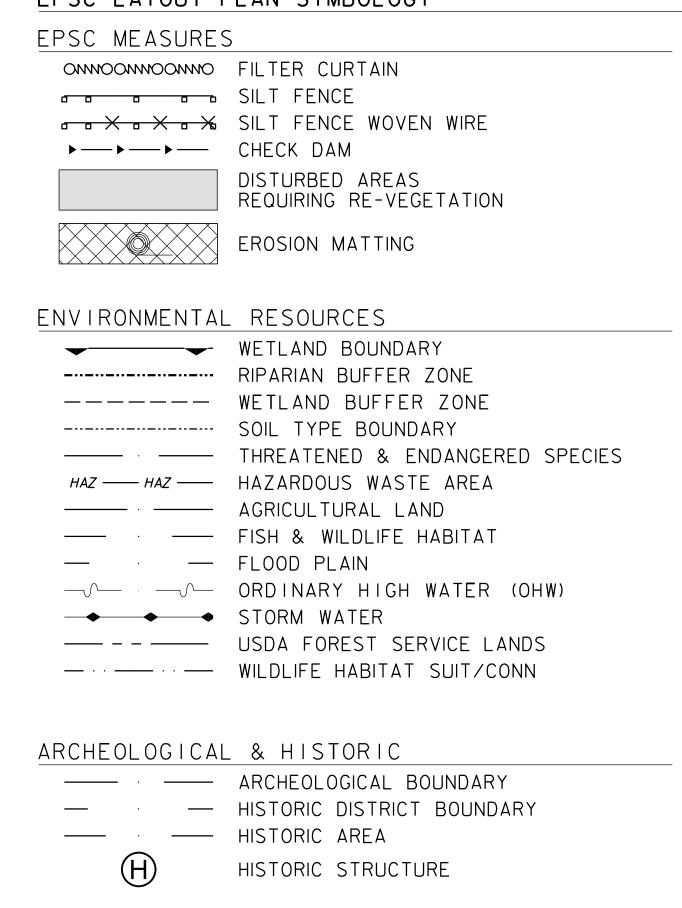


CONVENTIONAL BOUNDARY SYMBOLOGY

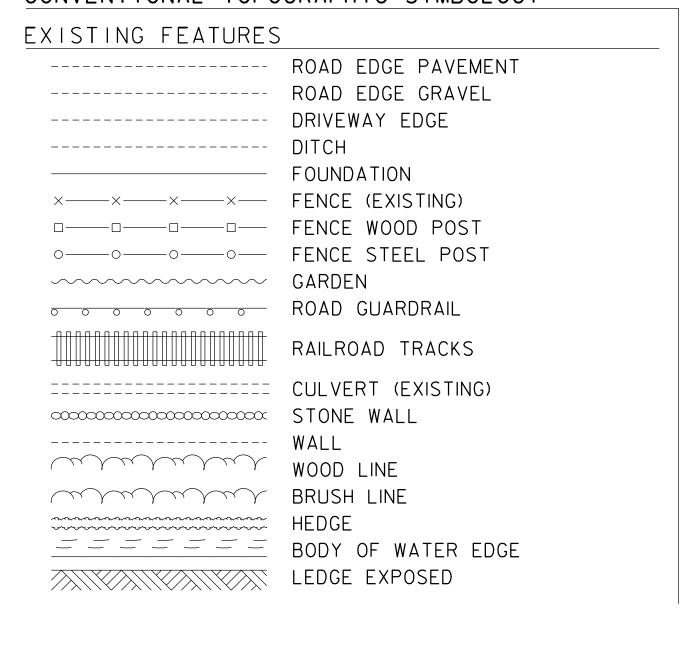
SHEET PILES

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

EPSC LAYOUT PLAN SYMBOLOGY



CONVENTIONAL TOPOGRAPHIC SYMBOLOGY



PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350typ.dgn PLOT DATE: 3/28/2016 PROJECT LEADER: VTRANS DRAWN BY: VTRANS DESIGNED BY: VTRANS CHECKED BY: VTRANS CONVENTIONAL SYMBOLOGY & LEGEND SHEET SHEET IO OF 37

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 \bigcirc

DISK MM 5

DIRECTION	ACTUAL GRID POINTS	PROJECT SPECIFIC
	ENGLISH	COORDINATE POINTS
N	646062.992 FT	646038.863 FT
E	1643996.063 FT	1644023.552 FT
Z	727.780 FT	727.611 FT

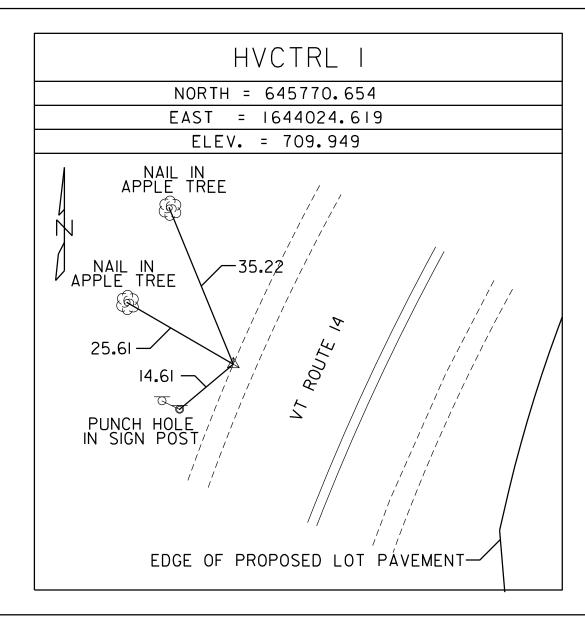
GENERAL LOCATION, EAST MONTPELIER, VT.

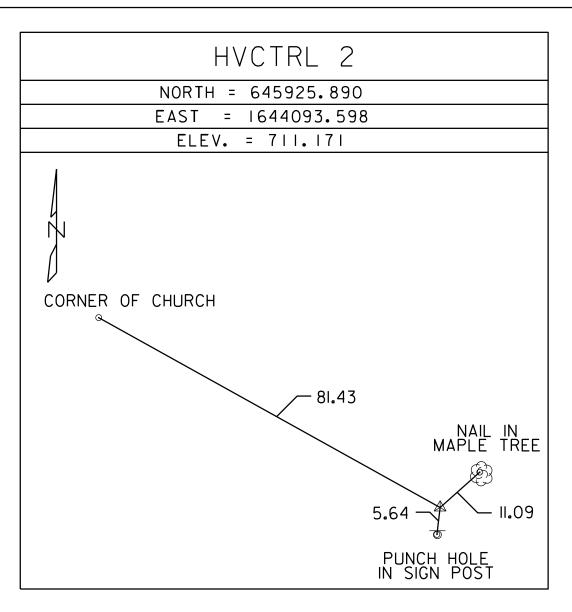
DESCRIBED BY COAST AND GEODETIC SURVEY 1936 O.3 MINORTHEAST FROM EAST MONTPELIER.O.3 MINORTHEAST ALONG U.S. HIGHWAY 2 FROM A COVERED BRIDGE AT EAST MONTPELIER, WASHINGTON COUNTY, ABOUT 175 YARDS NORTHEAST OF THE JUNCTION OF STATE HIGHWAY 12, 75 YARDS NORTHEAST OF A BRICK CHURCH, 70 FEET WEST OF THE JUNCTION OF A COUNTY ROAD, IN THE TOP OF A ROCK OUTCROP, AND ABOUT 20 FEET HIGHER THAN THE HIGHWAY. A UNITED STATES GEOLOGICAL SURVEY STANDARD DISK, STAMPED MM 5 1928.

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1979 TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 2 AND STATE HIGHWAY 14, IN EAST MONTPELIER GO EAST ON HIGHWAY 14 FOR 0.05 MILE TO THE MARK ON THE LEFT. THE MARK IS A U.S. GEOLOGICAL SURVEY DISK CEMENTED IN A DRILL HOLE IN ROCK OUTCROP THAT PROJECTS 4 FEET ON THE SOUTH SIDE. IT IS 92 FEET EAST OF THE SOUTHEAST CORNER OF THE WASHINGTON ELECTRIC COOP BUILDING AND 76 FEET NORTH OF THE CENTER OF HIGHWAY 14.

DESCRIPTIONS PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT.

AVERSE TIES

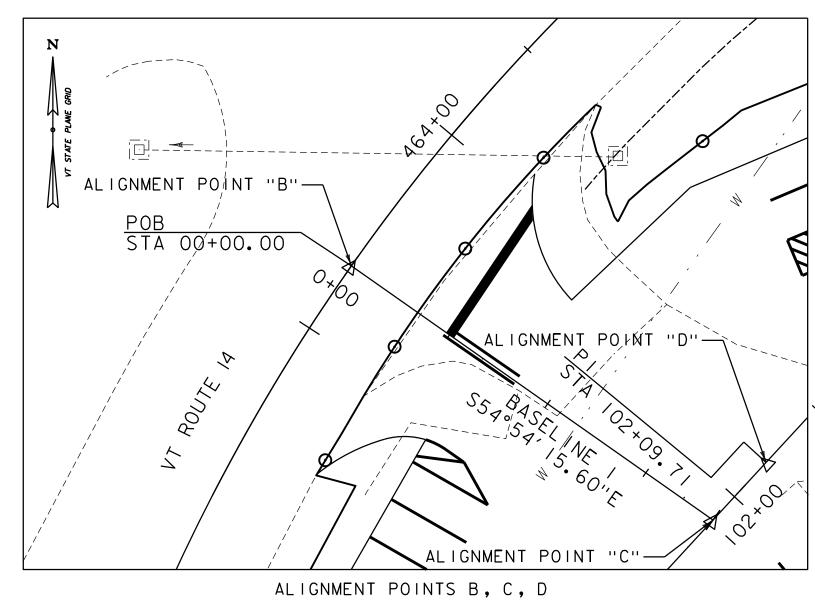




AL IGNMENT POINT "A"

POB

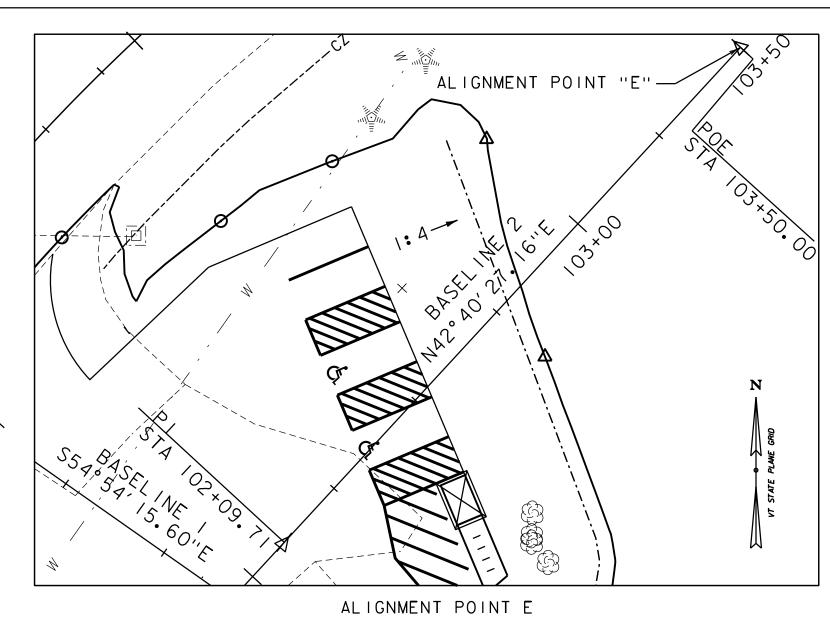
STA 100+00.00



1644341.9810

646050.1086

103+50.00



Stantec

ALIGNMENT POINT A

ALIGNMENT POINTS EASTING STATION POINT NORTHING 1644104.7413 100+00.00 645792.7813 1644160.4748 645987.9363 00+00.00 645934.9785 1644235.8381 00+92.11 1644246.8908 645946.9672 102+09.71

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350ti.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
PROJECT TIE SHEET

PLOT DATE: 3/28/2016

DRAWN BY: G.BURGMEIER

CHECKED BY: G.SANTY

SHEET || OF 37

DATUM

 \geq

GNME

 \triangleleft

VERTICAL: NAVD 88 FT

HORIZONTAL: NAD 83 (CORS) SPC(4400 VT)SFT

STATE OF VERMONT **EARTHWORKS** AGENCY OF TRANSPORTATION TOTAL EXCAVATION TOTAL EXCAVATION ROCK **EMBANKMENT EMBANKMENT EMBANKMENT** SUMMARY AND BALANCES EARTH AND ROCK EARTH AND ROCK **EXCAVATION** EARTH AND ROCK **EXCAVATION EXCAVATION** AREA VOLUME AREA VOLUME AREA VOLUME AREA VOLUME DIST AREA VOLUME AREA VOLUME AREA VOLUME DIST AREA VOLUME AREA VOLUME AREA VOLUME AREA VOLUME STATION DIST STATION AREA VOLUME STATION TO STATION EARTH & **EMBANK** EXCESSES ACUMULATIVE EXCESSES **EXCAV** ROCK C.Y. C.Y. S.F. C.Y. C.Y. C.Y. C.Y. C.Y. C.Y. C.Y. C.Y. C.Y. S.F. C.Y. C.Y. CUT FILL CUT FILL EAST MONTPELIER PARK-AND-RIDE 202 750 100+50.00 103+00.00 661 661 PARK-AND-RIDE: TOTALS 750 23 61 24 20 101+00 20 44 52 82 202 101+50 100 ROCK 12 101+75 R.FAC 0.495 15 102 750 FILL F.FAC 1.15 102+00 123 EX.F 20 146 100 102+75 24 103+00 REMARKS 202 EARTH AND ROCK EXCAVATION SOLID ROCK EXCAVATION 202 EARTH EXCAVATION 750 PLANIMETERED FILL LESS FACTORED SOLID ROCK 0 LESS DISPLACEMENT OF ANY LARGE STRUCTURES NET PLANIMETERED FILL 750 1.15 PLANIMETERED FILL INCLUDING FACTOR 862 MATERIALS AVAILABLE FOR FILLS 202 EARTH EXCAVATION CHANNEL EXCAVATION 0 UNDERDRAIN EXCAVATION STRUCTURE EXCAVATION TOTAL FILL INCLUDING FACTOR 862 TOTAL MATERIAL FOR FILL 202 661 EXCESS EXCAVATION

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350frm.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
EARTHWORKS SHEET

PLOT DATE: 3/28/2016

DRAWN BY: G. BURGMEIER

CHECKED BY: G. SANTY

SHEET 12 OF 37

STATE OF VERMONT AGENCY OF TRANSPORTATION

PARKING LOT BASELINE STATIONS = PL____
ROUTE 14 ENGLISH STATIONS IN (PARENTHESES

RIGHT - OF - WAY DETAIL SHEET

	TABLE OF PROPERTY ACQUISITION													
PARCEL NO.	PROPERTY OWNER	ROW LAYOUT NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER					RECORDING DATA			REMARKS
	LAPERLE, NORMAN A. AND LAPERLE, CLAIRE	1	VT 14 463+58 RT VT 14 465+36.15 RT VT 14 465+68.98 RT	VT 14 465+21.5 RT	AREA±	AREA±	TYPE CONSTRUCTION	T/P AREA ± (T) 1964 SF	TITLE	DATE	TOWN / CITY	BOOK	PAGE	INCLUDES PDF AND EROSION CONTROL W-2 MONITOR EXISTING WELL DURING CONSTRUCTION W-1 MONITOR EXISTING WELL DURING CONSTRUCTION
2	TOWN OF EAST MONTPELIER	1												OLD POST AND FENCE REMNANTS
	WASHINGTON ELECTRIC	1	VT 14 461+83.33 RT	VT 14 465+09.74 RT	0.55 AC	0 SF								INCLUDES EXISTING BUILDING & APPURTENANCES
	COOPERATIVE, INC.													23,946 S.F.
4	GREEN MOUNTAIN POWER CORP.		PL 100+35.70 RT (VT 14 461+87.0 RT)	PL 103+27.49 LT (VT 14 465+21.5 RT)										UTILITY
	TELEPHONE OPERATING COMPANY OF VERMONT, LLC		PL 100+35.70 RT (VT 14 461+87.0 RT)	PL 103+27.49 LT (VT 14 465+21.5 RT)										UTILITY
6	CHARTER COMMUNICATIONS, INC.		PL 100+35.70 RT (VT 14 461+87.0 RT)	PL 103+27.49 LT (VT 14 465+21.5 RT)										UTILITY
7	THEODORE G. HEDGES & SONS, INC. d/b/a CRYSTAL SPRINGS WATER CO.		PL 100+35.70 RT (VT 14 461+87.0 RT)	PL 103+27.49 LT (VT 14 465+21.5 RT)										UTILITY

REVISION NO. SET SHEET# 1	N 012 HP 12/09/15
NO. SET SHEET# 1 4 PARCEL 1: ADD THE HOUSE FOOTPRIN LOCATION OF TWO (2) EXIST. ARTESIAN WELLS TO BE MONITORED DURING CONSTRUCTION, & APPROX. LOCATION OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	05/26/15 N 012 HP 12/09/15 TS
1 4 PARCEL 1: ADD THE HOUSE FOOTPRIN LOCATION OF TWO (2) EXIST. ARTESIAN WELLS TO BE MONITORED DURING CONSTRUCTION, & APPROX. LOCATION OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	N 012 HP 12/09/15
LOCATION OF TWO (2) EXIST. ARTESIAN WELLS TO BE MONITORED DURING CONSTRUCTION, & APPROX. LOCATION OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	N 012 HP 12/09/15
LOCATION OF TWO (2) EXIST. ARTESIAN WELLS TO BE MONITORED DURING CONSTRUCTION, & APPROX. LOCATION OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	N 012 HP 12/09/15
WELLS TO BE MONITORED DURING CONSTRUCTION, & APPROX. LOCATION OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	12/09/15 TS
CONSTRUCTION, & APPROX. LOCATION OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	012 HP 12/09/15 TS
OF TWO (2) WATERLINES PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	012 HP 12/09/15 TS
PER C.O. 100 MADE BY: STANTEC APPROVED BY: 2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	12/09/15 TS
2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	12/09/15 TS
2 3,4 PARCEL 2: CHANGE OWNER NAME TO TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	12/09/15 TS
TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	TS 060
TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	TS 060
TOWN OF EAST MONTPELIER; NO RIGH NEEDED (TOWN PROJECT) PER C.O. 100	TS 060
NEEDED (TOWN PROJECT) PER C.O. 100	060
PER C.O. 100	
WADE BY, STANTEC APPROVED BY.	

TABLE OF REVISIONS

PROJECT NAME: E. MONTPELIER PARK AND RIDE
PROJECT NUMBER: CMG PARK (37)

FILE NAME: ...\drawing\z||k350_ROWDETL.dgPLOT DATE: 3/28/2016

PROJECT LEADER: G. SANTY

DESIGNED BY: D. HARRINGTON

R.O.W. DETAIL SHEET 1

CHECKED H. PETROVS

SHEET 13

OF 37

NOTES: I. R.O.W. LIMITS SHOWN ARE BASED ON PROJECT E. MONTPELIER STPG 028-3(35)S.

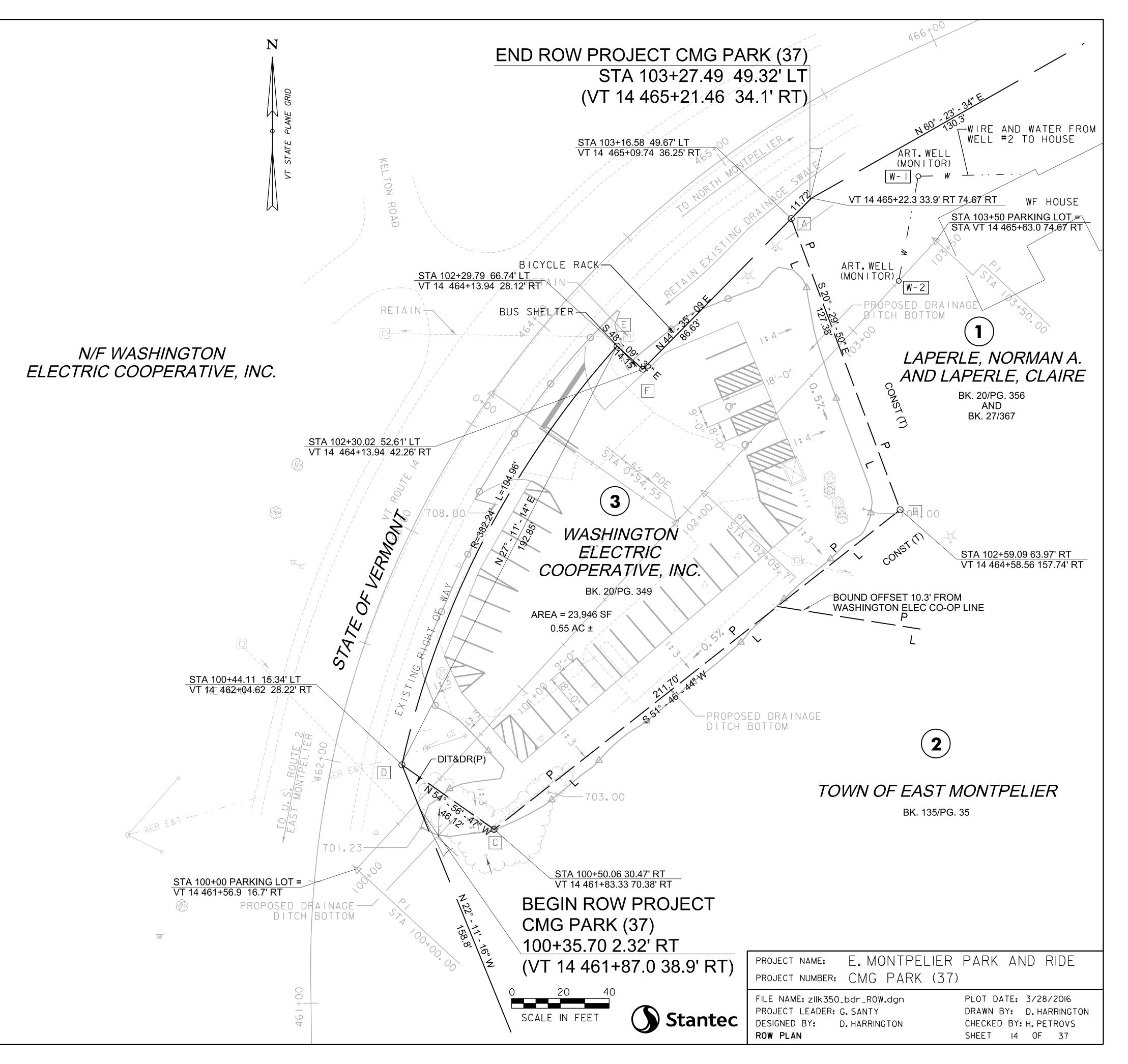
2. THE ABOVE REFERENCED PROJECT WAS A METRIC PROJECT. THE CURRENT PARK AND RIDE PROJECT IS IN ENGLISH UNITS. A CONVERSION WAS MADE FROM METRIC TO ENGLISH IN ORDER TO CORRELATE THE PRIOR PROJECT'S ROW INFORMATION INTO THE PARK AND RIDE PROJECT.

3. THE WASHINGTON ELECTRIC PARCEL SHOWN BELOW WAS PARCEL 15A OF THE ABOVE MENTIONED PROJECT.

4. PARCEL 3 PROPERTY LINES AND SURVEY INFORMATION WERE SUPPLIED FROM VTRANS AS USED IN PROJECT STPG 028 (35) S AND FROM DEED INFORMATION.

PARCEL 3 STATION AND OFFSET REFERENCE

	PROJECT BASELINE	RT 14 BASELINE ENGLISH UNITS	RT 14 BASELINE METRIC UNITS
А	103+16.58	465+09.74	4+ 76. 7
	49.70′ LT	36.25′ RT	1.05M RT
В	102+59.09	464+58.56 (BND)	14+160.57
	63.97′ RT	157.74′ RT	48.08M RT
С	100+50.06	461+83.33 (IP)	4+076.68
	30.47′ RT	70.38′ RT	2 .45M RT
D	100+43.94	462+04.62	4+083. 7
	15.24′ LT	28.22′ RT	8.60M RT
E	102+29.79	464+13.94	4+ 46.97
	66.74′ LT	28.12′RT	8.57M RT
F	102+30.00	464+13.94	4+ 46.97
	52.59′ LT	42.26′ RT	2.88M RT



FOR RIGHT OF WAY USE ONLY

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF EAST MONTPELIER'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

LAYOUT POINT SUMMARY										
LEGEND: LP#X = LAYOUT POINT #X										
PT OF 15' RADIUS										
LAYOUT POINT	DESCRIPTION	COORDINATES	BASELINE 2 STATION							
I	WEST END OF PARKING LOT	N: 645851.76 E: 1644159.12	STA. 100+80.24, 00.00′ LT/RT							
2	EAST END OF PARKING LOT	N: 645979.37 E: 1644276.77	STA. 102+53.79, 00.00′ LT/RT							
3	CORNER OF LOT	N: 645864.96 E: 1644147.80	STA. 100+82.25, 17.26' LT							
4	CORNER OF LOT	N: 645879.95 E: 1644140.65	STA. 100+88.43, 32.69' LT							
5	CORNER OF LOT	N: 645915.85 E: 1644155.40	STA. 101+24.82, 46.18′ LT							
6	CORNER OF LOT	N: 645951.72 E: 1644175.96	STA. 101+65.13, 55.37′ LT							
7	PCC OF 40' & 15' RADIUS	N: 645951.84 E: 1644167.47	STA. 101+59.46, 61.69′ LT							
8	PC OF 40' RADIUS	N: 645944.66 E: 1644153.42	STA. 101+44.66, 67.16' LT							
9	CORNER OF LOT	N: 645980.86 E: 1644206.38	STA. 102+07.17, 52.75′ LT							
10	PC OF 30' RADIUS	N: 646007.08 E: 1644198.69	STA. 102+21.24, 76.19' LT							
11	CORNER OF LOT	N: 646016.89 E: 1644260.90	STA. 102+70.62, 37.09′ LT							
12	CORNER OF LOT	N: 646004.29 E: 1644231.12	STA. 102+41.17, 50.45' LT							
13	CORNER OF LOT	N: 645940.03 E: 1644293.40	STA. 102+36.14, 38.90' RT							
14	CORNER OF LOT	N: 645836.27 E: 1644172.39	STA. 100+77.83, 20.26' RT							

DEMOLITION AND DISPOSAL OF BUILDING STA. 101+30, RT TO 102+11, RT

REMOVAL OF EXISTING CURB

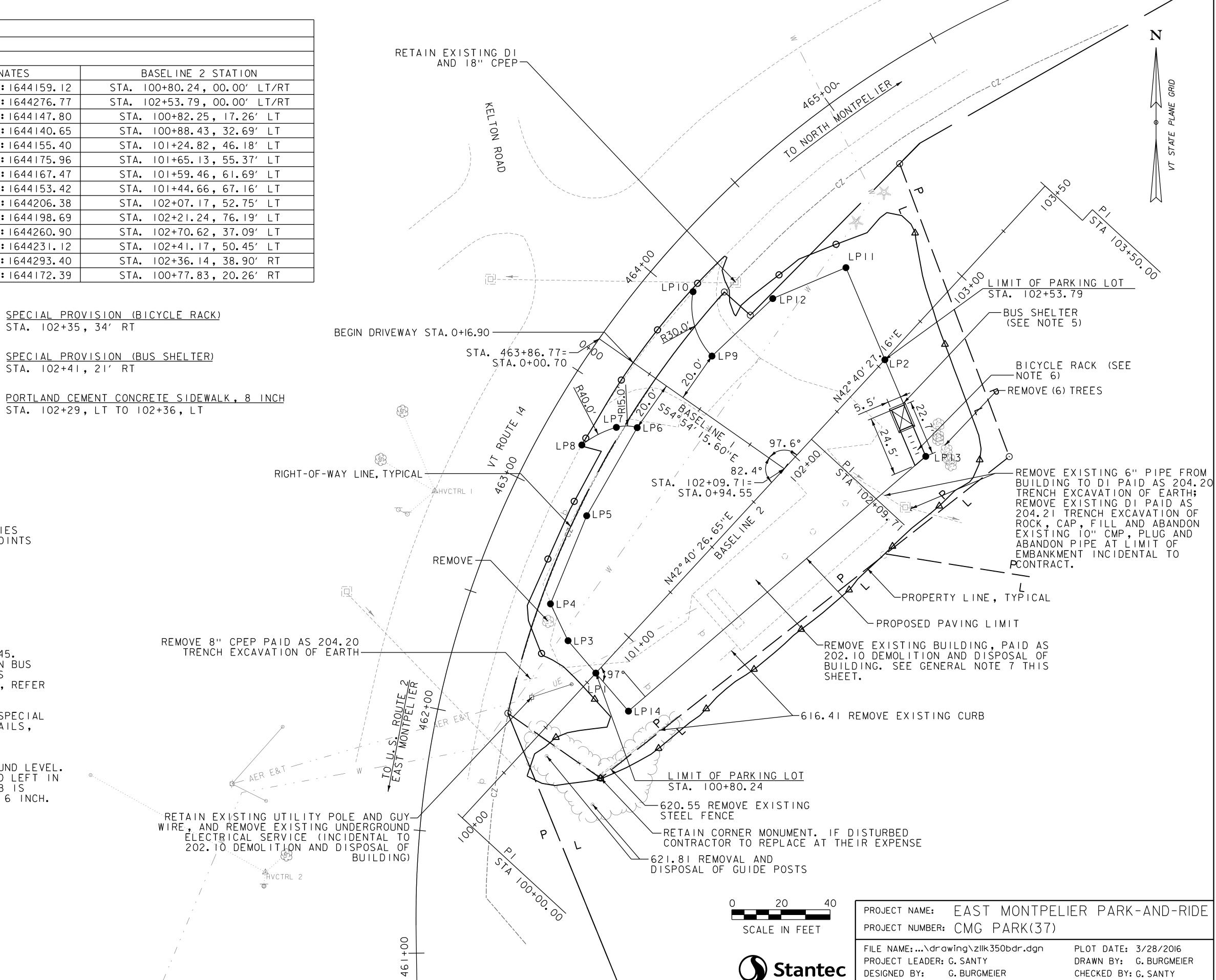
STA. 100+46.68, 6.47' RT - 100+89.62, 36.45' RT STA. IOI+18.34, 33.71' RT - IOI+27.43, 34.61' RT

REMOVAL OF EXISTING FENCE STA. 100+45.16, 3.05' LT - 100+89.62, 36.45' RT

REMOVAL AND DISPOSAL OF GUIDE POSTS STA. 100+40.00, 35.28' RT STA. 100+41.83, 8.16' RT

GENERAL NOTES:

- I. FOR A SUMMARY OF CONTROL POINTS AND TRAVERSE TIES SEE PROJECT TIE SHEET. FOR ALIGNMENT LAYOUT POINTS SEE LAYOUT POINT SUMMARY TABLE ABOVE.
- 2. FOR SIGNS AND PAVEMENT MARKINGS SEE SIGNING AND PAVEMENT MARKING PLAN.
- 3. FOR PARK-AND-RIDE LIGHTING SEE LIGHTING PLAN.
- 4. DURING CONSTRUCTION THE EXISTING PARK-AND-RIDE SHALL BE CLOSED TO ALL TRAFFIC.
- 5. THE BUS SHELTER SHALL BE PAID UNDER ITEM 900.645. SPECIAL PROVISION (BUS SHELTER). SEE DETAILS ON BUS SHELTER DETAIL SHEETS. FOR DETAIL OF PAY LIMITS UNDER THE SPECIAL PROVISION (BUS SHELTER) ITEM, REFER TO BUS SHELTER DETAIL SHEETS.
- 6. THE BICYCLE RACK SHALL BE PAID FOR AS 900.620 SPECIAL PROVISION (BICYCLE RACK). FOR BICYCLE RACK DETAILS, SEE DETAILS SHEET.
- 7. EXISTING BUILDING: FOUNDATION WALLS TO BE REMOVED TO EXISTING GROUND LEVEL. CONCRETE SLAB SHALL BE FRACTURED, COMPACTED AND LEFT IN PLACE. NO EXCAVATION OF THE FOUNDATION AND SLAB IS PERMITTED. MAXIMUM DIAMETER FRACTURED CONCRETE 6 INCH.



DESIGNED BY: G. BURGMEIER

LAYOUT PLAN

CHECKED BY: G. SANTY SHEET IS OF 37



720

1 710

] 700

] 690

LIMIT OF PARKING LOT

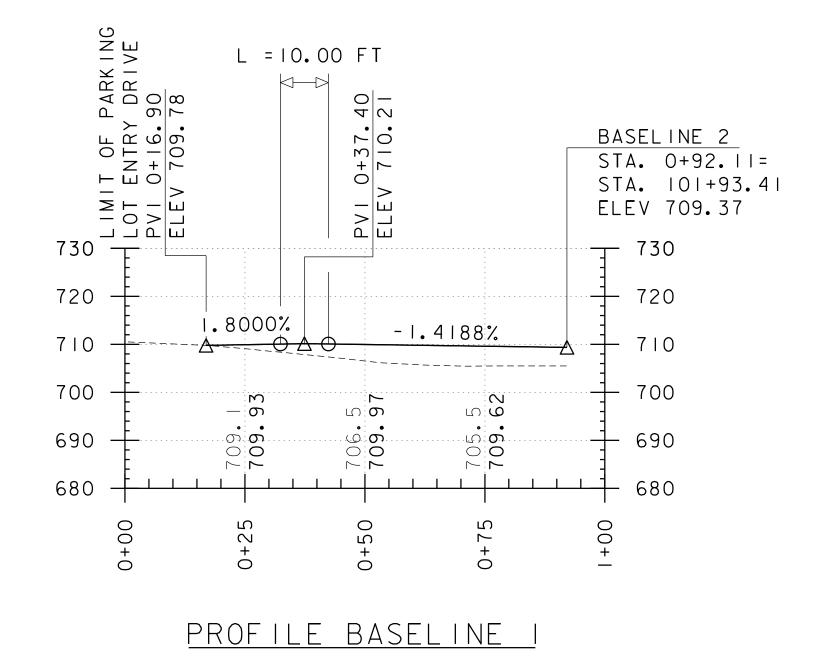
PVI 102+53.79

500

ELEV 709.68

≥

709.



BASELINE I

-PROPOSED GRADE

ALONG BASELINE

_EXISTING GROUND

ALONG BASELINE

709.3

PROFILE BASELINE 2

0.5000%

STA. 101+93.41= STA. 0+92.11 ELEV 709.37

2

709.

LIMIT OF PARKING LOT PVI 100+80.24

ELEV 708.81

ට ට

708.

03

709.

PVI 100+00.00

ELEV 710.00

720

710

700

690

100+5

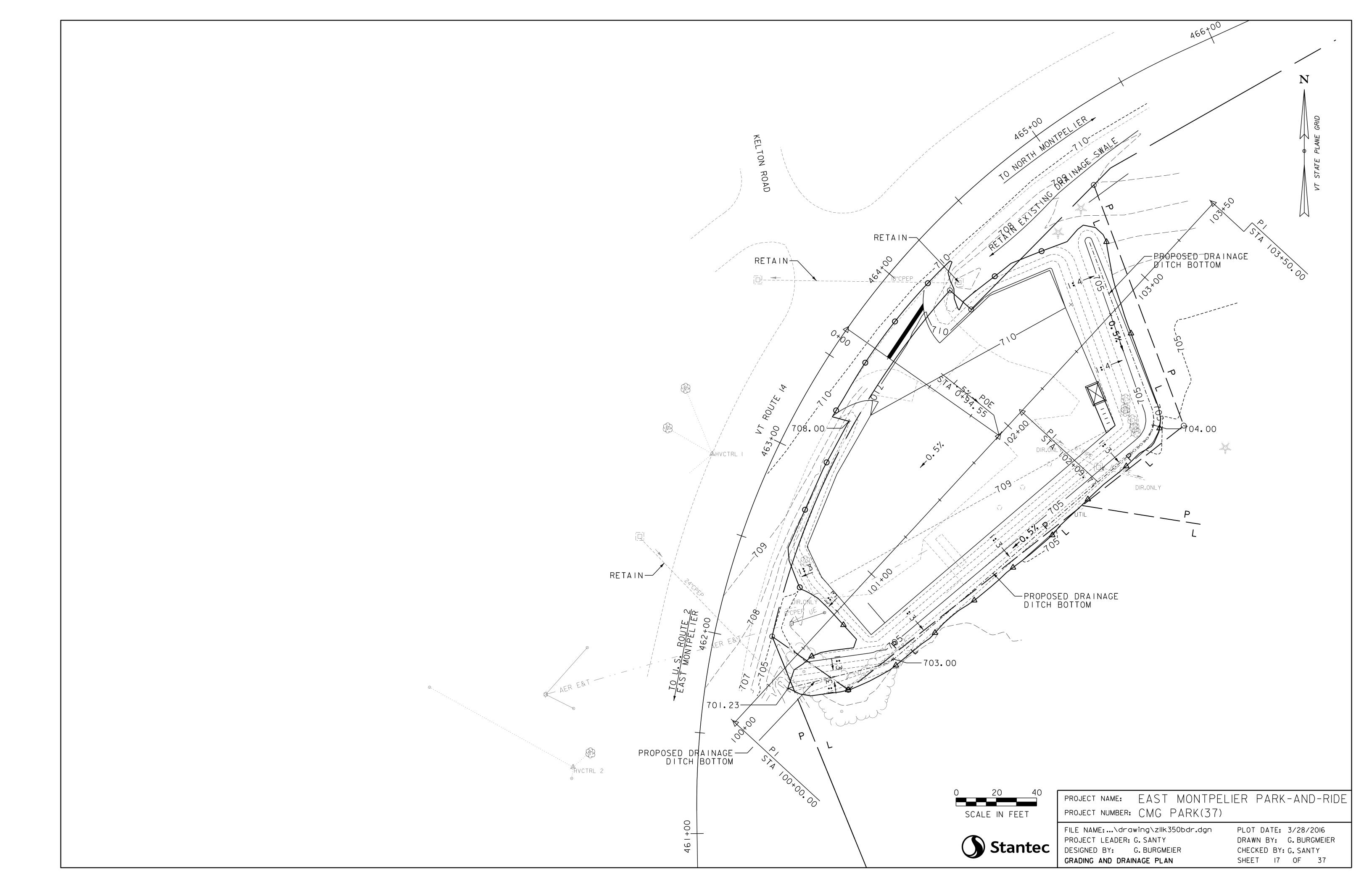
NOTES:

- I. ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROFILE GRADE LINE.
- 2. ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE FINISH GRADE ALONG PROFILE GRADE LINE.
- 3. ELEVATIONS AND STATIONS ARE IN FEET.

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK (37)

FILE NAME: zIIK350pro.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
PROFILE SHEET

PLOT DATE: 3/28/2016
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 16 OF 37



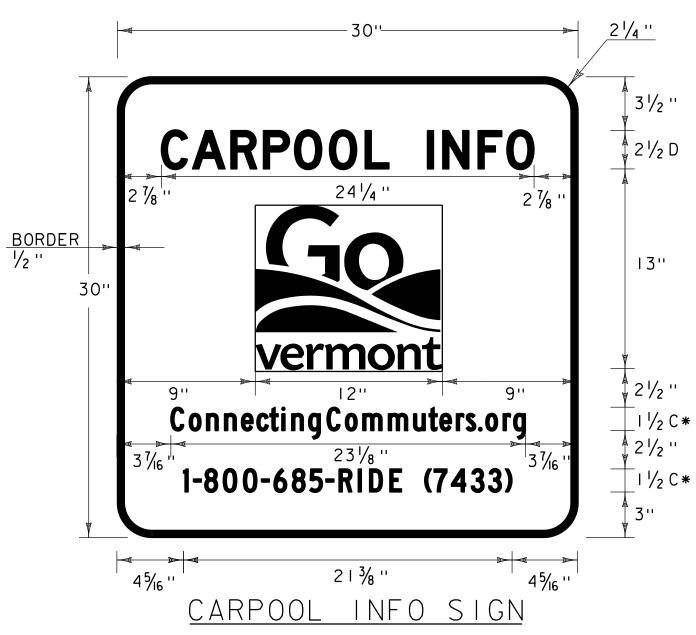
466+00 DURABLE 24" STOP BAR, EPOXY PAINT STA. 0+25, LT (26 FEET) DURABLE 4" WHITE LINE, EPOXY PAINT REMOVING SIGNS AS SHOWN - 4 STA. 100+83 TO 102+75, SOLID LT & RT (PARKING SPACES AND DIAGONALS) STA. 102+66, LT DURABLE LETTER OR SYMBOL, EPOXY PAINT STA. 102+36, LT & DURABLE 4" YELLOW LINE, EPOXY PAINT STA. 0+26 TO 0+42, LT (DOUBLE CENTERLINE) STA. 102+43, LT & LEVEL 1 MOUNT ON LIGHT POLE STA. 102+61, LT RESERVED PARKING ROAD VAN ACCESSIBLE STA. 0+26, LT [STOP] STA. 102+52, RESERVED PARKING STA. 101+54, STA. 101+50, LT PARK -RIDE VAN ACCESSIBLE PARK -E V NO PARKING AREA MARKING DETAIL B-B 102+21, RT LEVEL 1 CAR POOL INFO MOUNT ON LIGHT POLE Vermont ROUZE STA 101+20, LT 1-800-865-RIDE (7433) -DURABLE 4" WHITE LINE ONLY -DURABLE 4" WHITE LINE 100+83, LT RET PROHIBITED A SELVENT OF THE SERVICE OF THE SERV OVERNIGHT CAMPING ABANDONED VEHICLES VAN ACCESSIBILITY PAVEMENT COMMERCIAL ENTERPRISE MARKING DETAIL \$500 FINE THROWING TRASH ON HIGHWAYS STA. 101+22, RT STA. 101+94, RT AND STREAMS EAST MONTPELIER

462+00 LEVEL 1 STA. 100+90, RT STA. 101+21, RT MOUNT ON LIGHT POLE TYPICAL FOR ALL LIGHT POLES BUS STOP Commuter STA_100+16,_LT **Parking** T **NORTH** VERMONT <u>NOTES</u> 0 RET I.FOR ANY TOWN HIGHWAY OR STREET DETAILS, SEE VTrans STANDARD E-193. EAST MONTPELIER PARK-AND-RIDE PROJECT NAME: SIGN LEGEND PROJECT NUMBER: CMG PARK(37) 2. FOR PAVEMENT MARKING DETAILS, SEE VTrans STANDARDS E-191, E-192, & E-193. SCALE IN FEET N = NEWR = REMOVE FILE NAME:...\drawing\zllk350bdr.dgn PLOT DATE: 3/28/2016 RET = RETAIN PROJECT LEADER: G. SANTY DRAWN BY: G. BURGMEIER **Stantec** B-B = BACK-TO-BACK DESIGNED BY: G. BURGMEIER CHECKED BY: G. SANTY TRAFFIC SIGNS & PAVEMENT MARKINGS PLAN SHEET 18 OF 37

STATE OF VERMONT AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

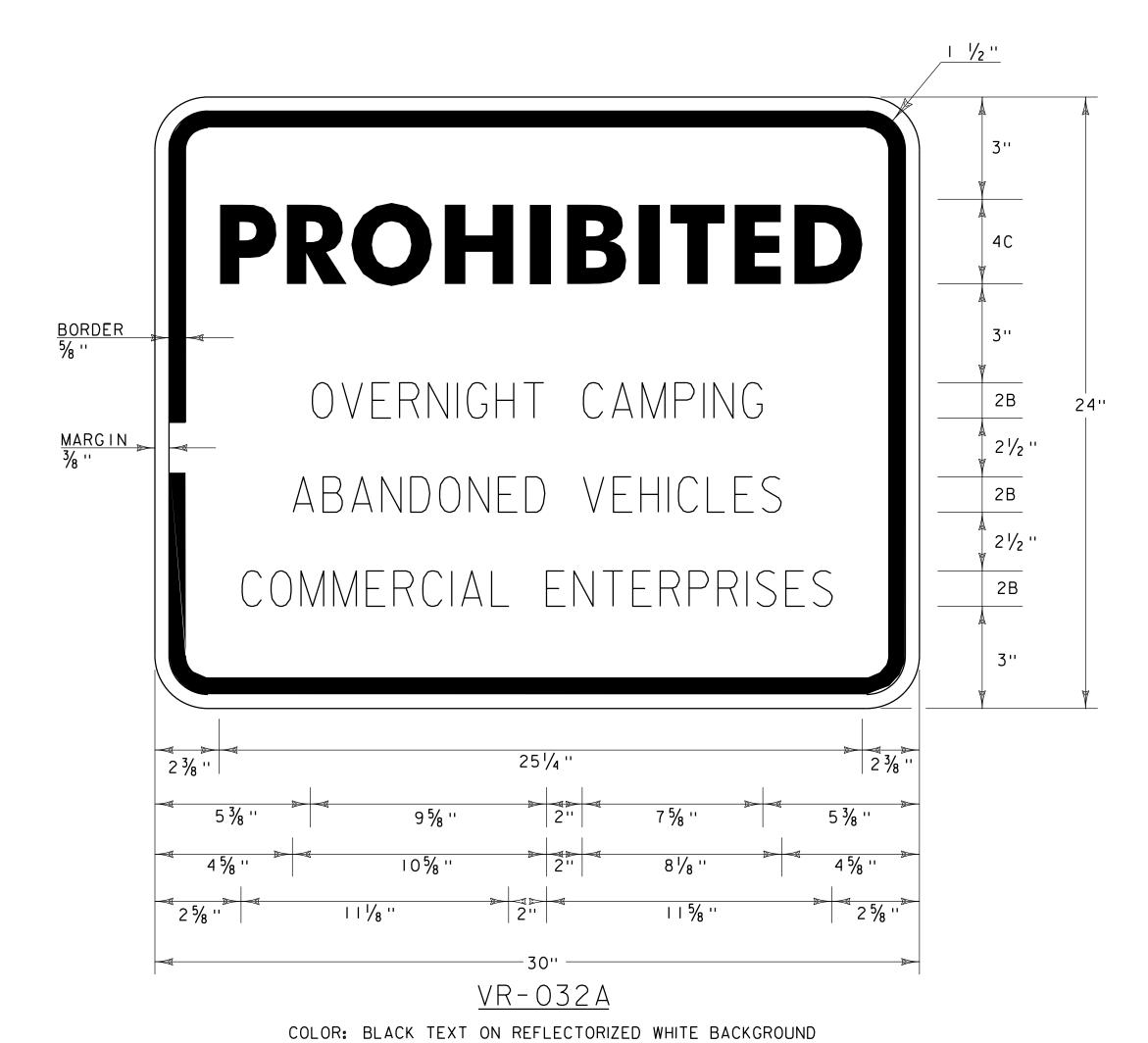
MILEMARKER,		SIGN DIMENS		NEW &	SALVAGED S	SIGNS P	EXIST POST NO.	FLANGED CHANNEL		SQUARE STEEL			TUBUI	AR ALUM	N POSTS	TUI	BULAR STEE	<u> </u>			W-SHAPE STEEL	R		_		SIGN DETAIL		
STATION, OR SIGN NUMBER	SIGN LEGEND		HEIGHT	''A''	"B" SALV SIGN	SALV TIS A	POSTS	Ib/ft I.12 2.0 3.0	I . 75	(in) 2.0 Ib/ft 2.42	2 . 5	A S L E V E V E	3.0 I.3	Ø (in) 4.0 Ib/ft 1.7	4.0 MOD FOUN ATIO	D- N 7.6	lb/f	<u> </u> 		FTG. S	P(SFQ IRU GMI IZE NEE		REMARKS		DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STE SHEE NUME
ST MONTPELIER	<u>R</u>														<u> </u>												1	<u> </u>
<u>SELINE</u> I O+26, LT	STOP	1 30	30	6.25						15		X														RI-I		
ELINE 2																												
	PROHIBITED OVERNIGHT CAMPING ABANDONED VEHICLES COMMERCIAL ENTERPRISES	1 30	24	5.00							_																20	
00+83, LT	S 500 FINE THROWING TRASH ON HIGHWAYS AND STREAMS	1 24	30	5.00							15	X										\	/R-023B					E-I
	PARK – PARK –	1 30	36	7.50						15		V											NCTALL CI	ONG DAGK TO	DACK		20	
01+54 , LT	RIDE ————————————————————————————————————	1 30	36	7.50						15		X											NSTALL SIC	GNS BACK-TO	J-BACK		20	
	CAR POOL INFO																											
D2+2I, RT	vermont ConnectingCommuters.org 1-800-865-RIDE (7433)	1 30	30	6.25			1			15		X										-	•				20	
	RESERVED PARKING	1 12	18	1.50																						R7-8		
D2+52, RT	VAN ACCESSIBLE	1 12	6	0.50						15		X														R7-8P		
	RESERVED PARKING		10	1.50																						D7.0		
02+6I, LT	VAN ACCESSIBLE		18	0.50			ı			15		X														R7-8 R7-8P		
DI+22, RT DI+50, LT DI+94, RT D2+66, LT	LEVEL 1	4 24	32	21.33																			NSTALL SIO	GNS ON LIGHT	T POLES		20	
	PROJECT SUBTOTALS ROUNDING			62.83 .17						90	15 -																	
	HIGHWAY SIGNS AND MARKING							FT FT FT		FT 75	15	EA	LB	LB	LB	LB	LB	LB	LB						EAST MO CMG PAF	ONTPELIER RK(37)	PARK-A	ND-
E FIELD. POST ORMATION FURN	STHS ARE TO BE DETERMINED SIZES ARE COMPUTED BASED NISHED ON THE STANDARD SH "SIGN POST DESIGN GUIDELINE	ON EETS TO	TALS	SF 63	SF EA.	SF		FT			FT 90			LB	EA.		LB			EA.	EA. LB	Stant	PROJ DESIG	JECT LEADER: (G. BURGMEIER	DRAWN CHECK	DATE: 3/28 BY: STAN ED BY: G.SA 19 OF	NTEC ANTY

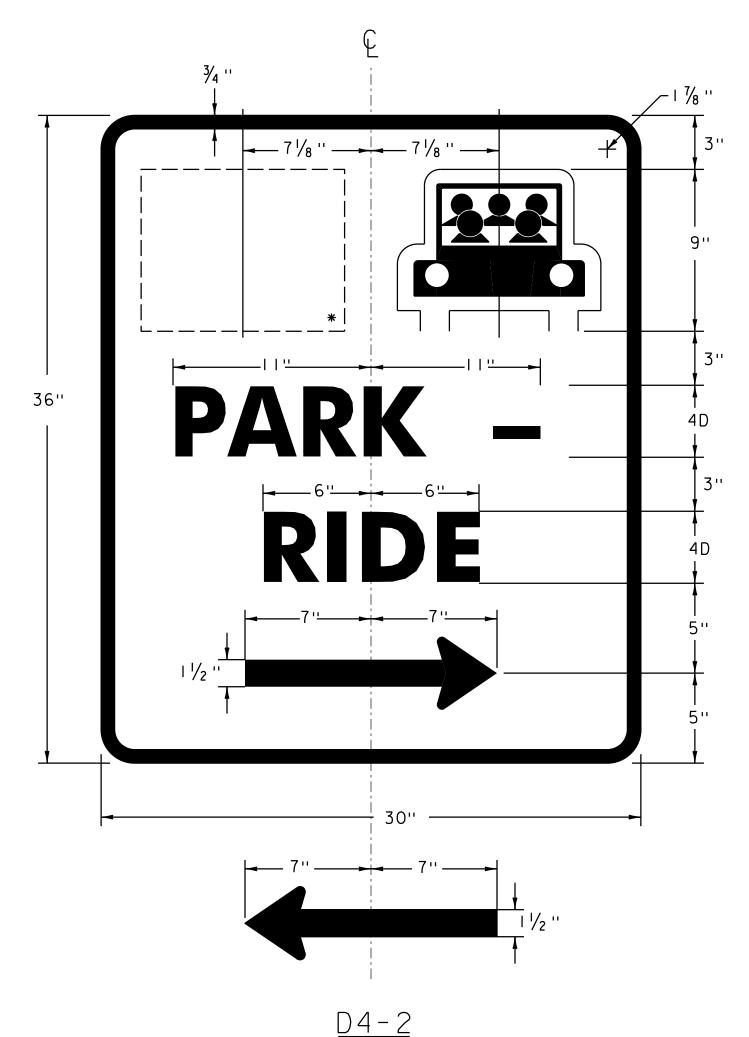


COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
(MINIMUM TYPE IX) WITH BLUE BACKGROUND
(RETROREFLECTIVE) (MINIMUM TYPE III)

NOTE: THE "GO VERMONT" LOGO WILL BE PROVIDED TO THE CONTRACTOR BY VAOT IN JPEG FORMAT.

*INCREASE SPACING BY 60%

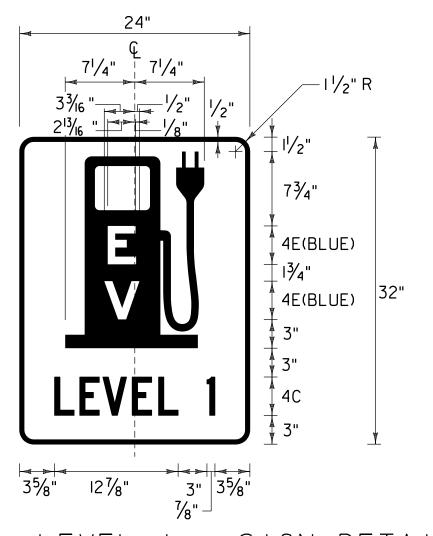




COLOR: WHITE (REFL.) LEGEND, ARROW & BORDER
WHITE & GREEN SYMBOL
GREEN (REFL.) BACKGROUND

*AREA DESIGNATED FOR TRANSIT PICTOGRAPH

NOTE: THE TRANSIT PICTOGRAPH WILL BE PROVIDED TO THE CONTRACTOR BY THE TRANSIT COMPANY ASSOCIATED WITH THE CORRESPONDING PARK AND RIDE IN JPEG FORMAT.



EV OUTLET, LEVEL I - SIGN DETAIL

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)

(MINIMUM TYPE IX) WITH BLUE BACKGROUND

(RETROREFLECTIVE) (MINIMUM TYPE III)

TRAFFIC SIGN NOTES

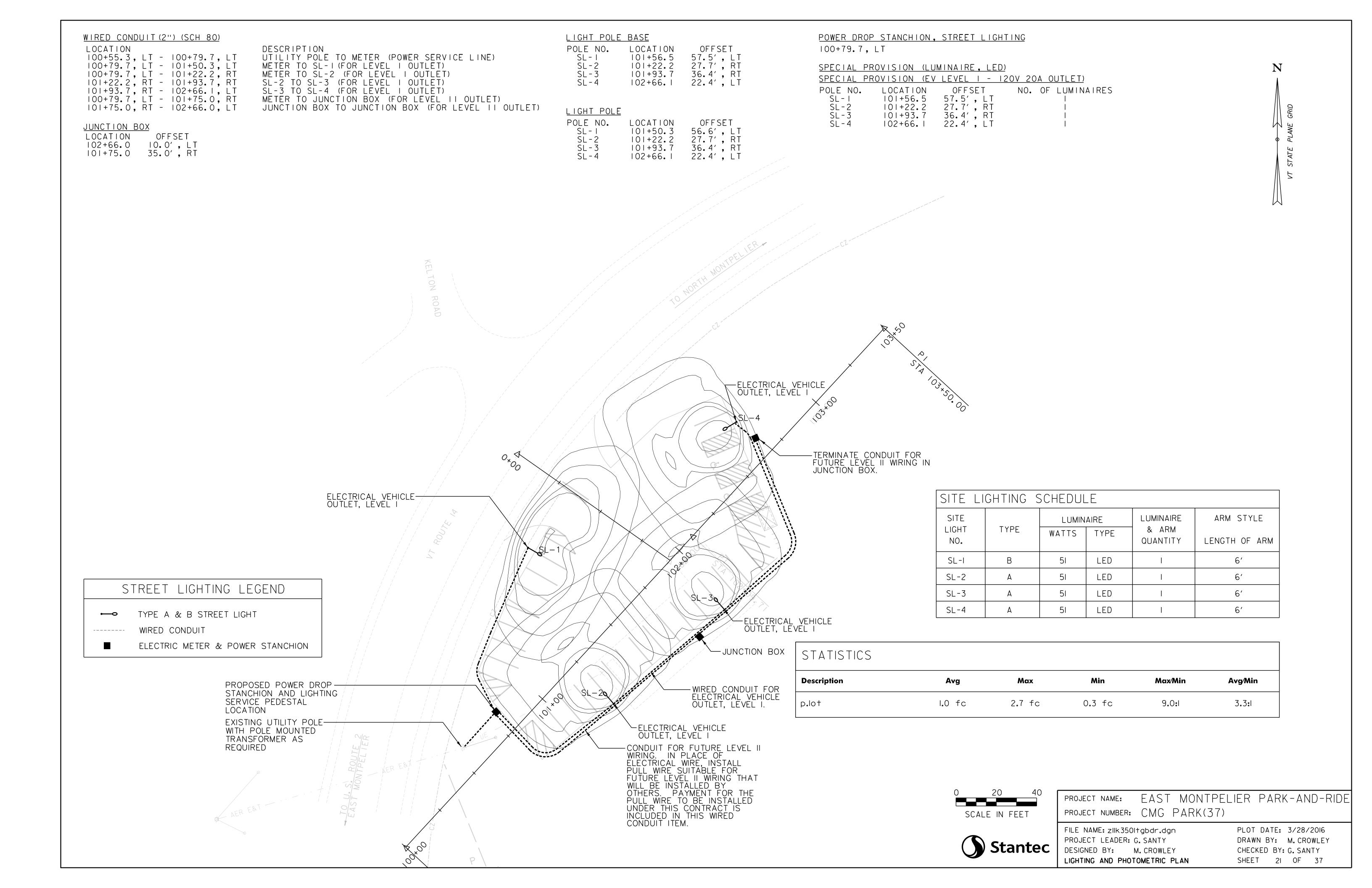
- ALL SIGN LETTERING, DIGITS, ARROWS, AND DESIGN OF SYMBOLS FOR SIGNS REFERENCED IN THESE PLANS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) UNLESS OTHERWISE DETAILED WITHIN THESE PLANS.
- 2. ALL COLORS SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) AND APPROVED BY FHWA UNLESS OTHERWISE NOTED.
- 3. ALL SHEETING SHALL BE TYPE III MINIMUM PER 750.08 RETROREFLECTIVE SHEETING.
- 4. UNLESS OTHERWISE DETAILED ON THE PLANS, ALL SIGN BASE MATERIALS SHALL BE FLAT SHEET ALUMINUM WITH THE FOLLOWING MINIMUM THICKNESSES:

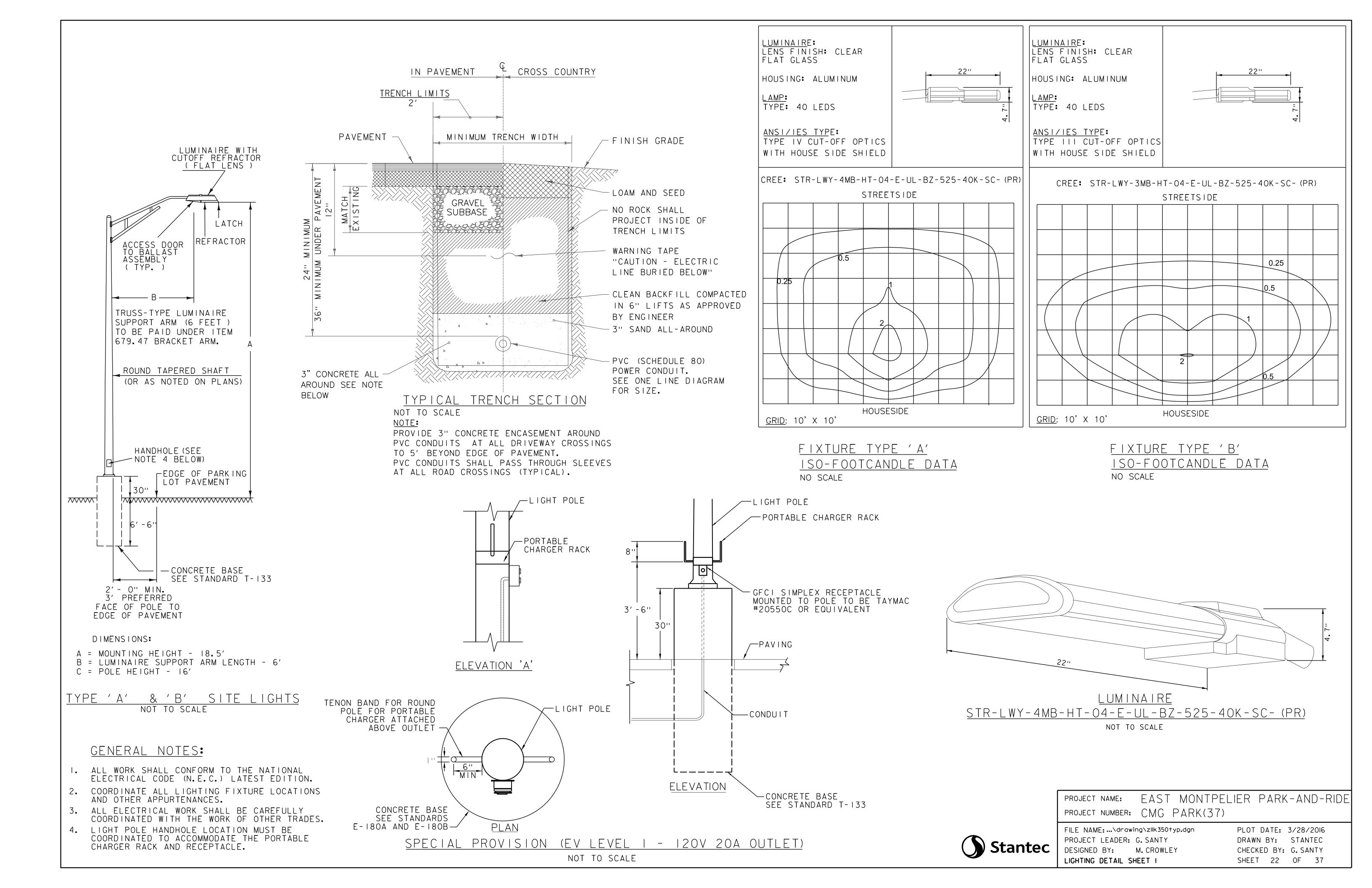
SIZES			36" X I2"	
		24" X 10"	36" X 15"	
		24" X I2"	42" X I2"	
		30" X I2"	48" X I2"	
		24" X 18"	36" X 18"	
		24" X 24"	54" X I2"	48" X 18"
		24" X 30"	36" X 24"	48" X 24"
	9" X I2"	30" X 15"	30" X 42"	48" X 30"
	I2" X I2"	30" X 18"	36" X 36"	48" X 42"
	18" X 18"	30" X 30"	36" X 48"	48" X 48"
	2I" X 15"	30" X 42"	36" X 54"	48" X 60"
THICKNESS	0.080"	0.080"	0.100"	0.125"

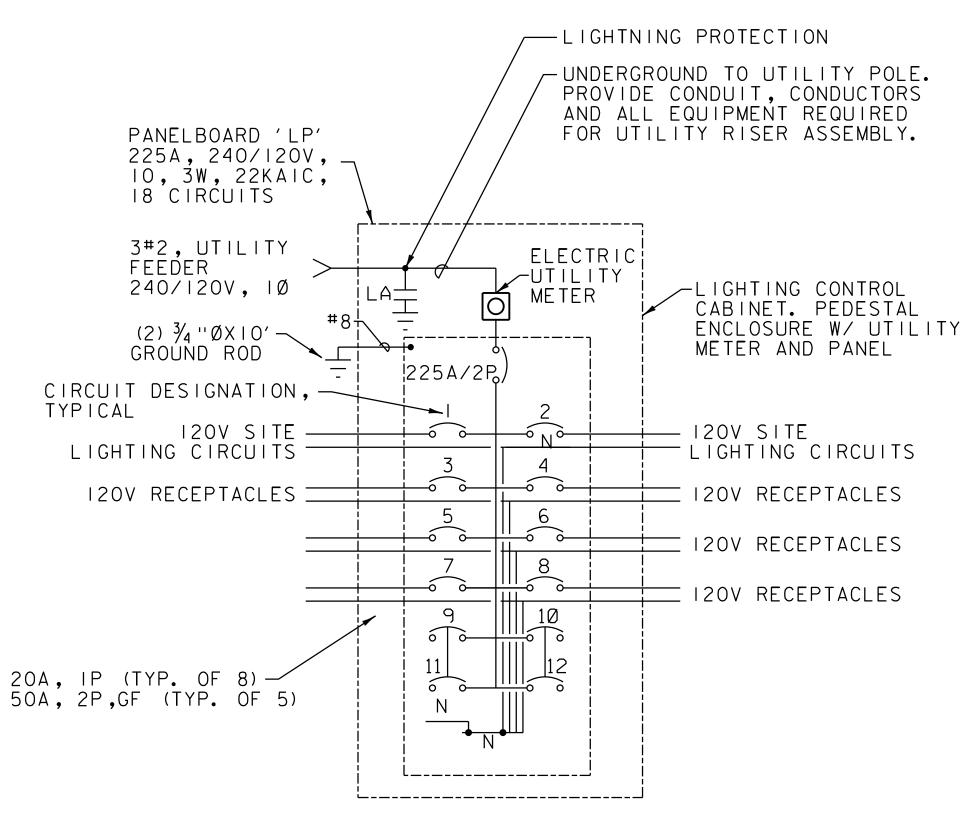
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)



FILE NAME:...\drawing\z||k350+yp.dgn PLOT DATE: 3/28/2016
PROJECT LEADER: G. SANTY DRAWN BY: STANTEC
DESIGNED BY: G. BURGMEIER CHECKED BY: G. SANTY
TRAFFIC SIGN DETAIL SHEET SHEET 20 OF 37

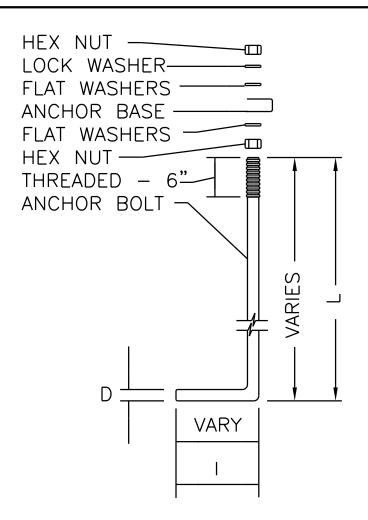






ONE-LINE DIAGRAM ROADWAY IGHTING SERVICE PEDESTAL

> NOT TO SCALE NOTE: NO RELAYS REQUIRED

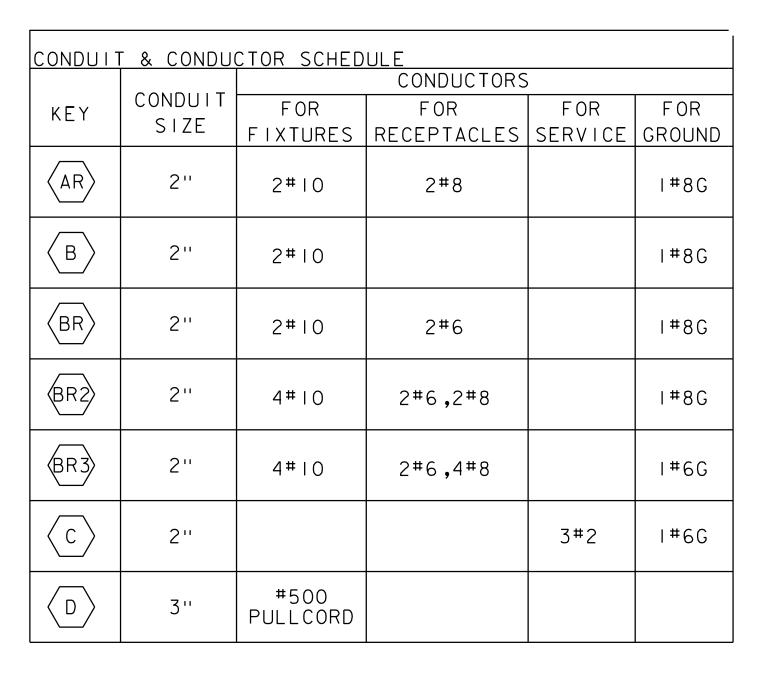


DIMENSION TABLE										
MOUNTING	NO. OF	AN	CHOF	R BAS	SE	SLIP BASE				
HEIGHT	ARMS	О	L	_	UNC	О	L	1	UNC	
22'(MAX.)	1 2	1	36	4	8	1-1/4"	42	6	7	

NOTES:

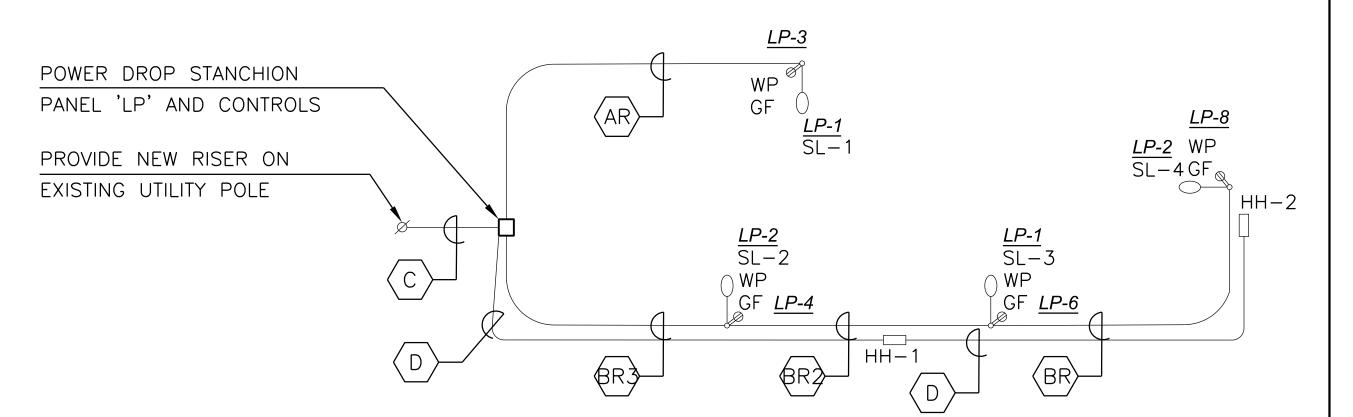
- 1. ALL ANCHOR BOLTS, WASHERS AND NUTS TO BE STAINLESS STEEL.
- 2. FOR MOUNTING HEIGHTS LESS THAN 30 FEET USE THE ANCHOR BOLT DIMENSIONS AS RECOMMENDED BY THE POLE MANUFACTURER, LENGTH, HOOK, DIAMETER AND BOLT PROJECTION.

ANCHOR BOLT ASSEMBLY DETAIL NOT TO SCALE



GENERAL NOTES:

- I. MAXIMUM OF 270° IN TOTAL BENDS PERMITTED IN SINGLE RUN OF CONDUIT
- 2. LIGHTS SHALL BE FUSED AT BASE WITH Y-TYPE FUSE KIT WITH WATERPROOF INSULATED SEAL "FLOOD SEAL". SIZE OF SHIELD SHALL MATCH WIRE AND HAVE A IOA FUSE.
- 3. CIRCUIT CONDUCTORS INCLUDING NEUTRAL CONDUCTOR SHALL BE CLEARLY IDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCES AT EVERY POLE BASE AND HANDHOLE.
- 4. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR WITH INSULATED COVER FOR TAPS AT POLE BASE.
- 5. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR WITH WATERTIGHT CONNECTOR, SUITABLE FOR DIRECT BURIAL IN JUNCTION BOXES, HANDHOLES.



SITE LIGHTING ONE-LINE DIAGRAM

EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37) FILE NAME:...\drawing\zllk350typ.dgn

Stantec

PROJECT LEADER: G. SANTY DESIGNED BY: M. CROWLEY LIGHTING DETAIL SHEET 2

PROJECT NAME:

PLOT DATE: 3/28/2016 DRAWN BY: STANTEC CHECKED BY: G. SANTY SHEET 23 OF 37

GENERAL SITE LIGHT NOTES

CONCRETE BASES

WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THERE MUST BE A MINIMUM OF 5'-O" OF THE BASE IN THE GROUND.

CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAIN-AGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.

POLES, ANCHOR BASES AND ARMS

ALL NEW SITE LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM IN ACCORDANCE WITH SUBSECTION 753.01 (B) AND SHALL BE DARK BRONZE IN COLOR.

LUMINAIRES AND POLES

TYPE A: ALUMINUM, DARK BRONZE, 'COBRA HEAD' TYPE LED, TYPE IV, DISTRIBUTION, WITH BACK LIGHT CONTROL EQUIVALENT TO: CREE LIGHTING CATALOG NO. STR-LWY-4MB-HT-04-E-UL-525-4K-SC-PR WITH PHOTOCELL.

TYPE B: ALUMINUM, DARK BRONZE, 'COBRA HEAD' TYPE LED, TYPE III, DISTRIBUTION EQUIVALENT TO: CREE LIGHTING CATALOG NO. STR-LWY-3MB-HT-04-E-UL-525-4K-SC-PR WITH PHOTO CELL.

POLES: TAPERED ALUMINUM, 16 FT. DARK BRONZE, WITH BASE COVER EQUIVALENT TO: COOPER LIGHTING CATALOG NO. RTA-5-125-16'-A-F (BRONZE)-1@90-6'-B-G

LUMINAIRE SUBSTITUTIONS SHALL MEET THE ISO FOOTCANDLE DATA AND THE ILLUMINATION LEVELS AS DESCRIBED BELOW.

ILLUMINATION LEVELS

PARK AND RIDE SHALL HAVE AN AVERAGE OF 1.0 FC, MINIMUM OF 0.2 FC, AND UNIFORMITY OF 4:1.

CONDUIT

A 2 INCH (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS, ALL CONDUIT SHALL BE SCHEDULE 80 PVC.

WIR

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR JUNCTION BOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE COPPER AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.

GROUNDING

ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR.
RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED
AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN
ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS
SO AS TO ACT AS A GROUND CONDUCTOR.

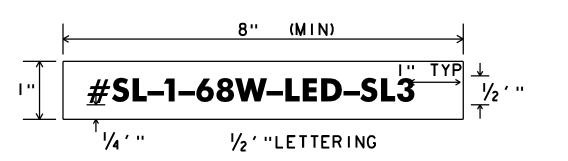
ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

GENERAL

THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY ELECTRICAL PERMITS.



LEGEND: BLACK OR WHITE (NON-REFL.) - STAMPED PRIOR TO PRINTING/PAINTING.
BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, SAME AS POLE FINISH.

DETAILS FOR TAGS ATTACHED TO SITE LIGHT POLES

NOT TO SCALE

- I. THE TAG SHALL BE MOUNTED ON ALL STREET LIGHT POLES IN SUCH A MANNER AS NOT TO BE EASILY REMOVED, SUCH AS WELDED, RIVET-ED, OR BOLTED WITH VANDAL PROOF BOLTS.
- 2. THE LETTERS SHALL BE PUNCHED, STAMPED, ENGRAVED, OR PHOTO-ETCHED. PUNCHING, STAMPING OR ENGRAVING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS.
- 3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF O. 100 INCHES.
- 4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 6 INCHES MAXIMUM. IF THE POLE HAS A TRANSFORMER BASE ATTACH TAG TO COVER.
- 5. TYPE 'A' FIXTURE TAG SHALL READ: SL-#-5IW-LED-SL4

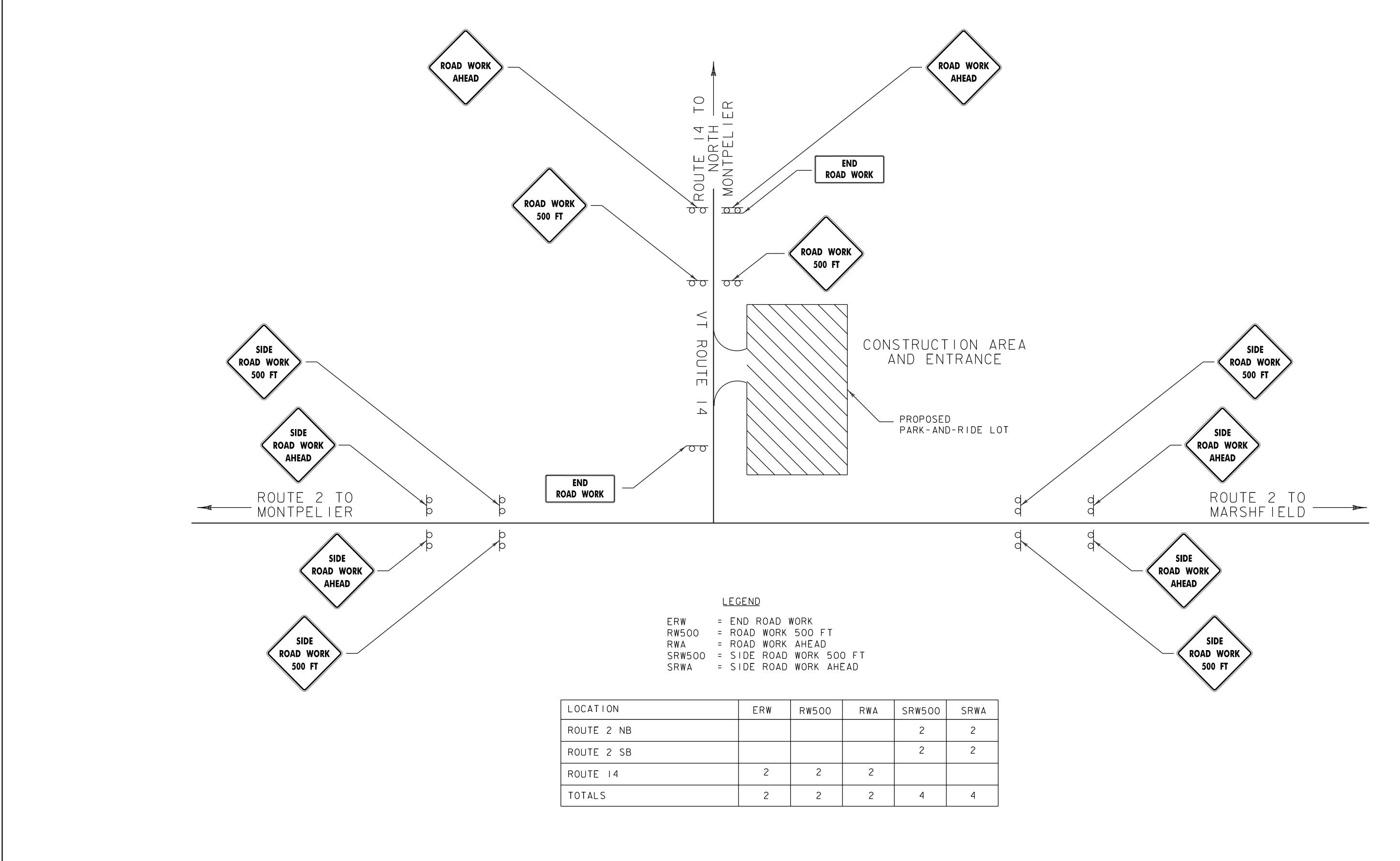
 TYPE 'B' FIXTURE TAG SHALL READ: SL-#-5IW-LED-SL3

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

Stantec FILE NAME:
PROJECT L
DESIGNED E

FILE NAME:...\drawing\zllk350typ.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: M. CROWLEY
LIGHTING DETAIL SHEET 3

PLOT DATE: 3/28/2016
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 24 OF 37



<u>CONSTRUCTION APPROACH SIGNING</u>

NOT TO SCALE

SEE VTrans STANDARD T-10 FOR SIGN PLACEMENT.

ALL TEMPORARY CONSTRUCTION SIGNING WILL BE INCLUDED

IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.



PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350+yp.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
CONSTRUCTION APPROACH SIGNING

PLOT DATE: 3/28/2016
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 25 OF 37

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT IS LOCATED ON VT ROUTE 14 IN THE TOWN OF EAST MONTPELIER, AT THE INTERSECTION OF ROUTE 14 NORTH AND U.S. ROUTE 2. WORK TO BE PERFORMED ON THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW 27 SPACE PARK-AND-RIDE LOT, SUBBASE, PAVEMENT, PAVEMENT MARKINGS, LIGHTING, LANDSCAPING, BUS SHELTER AND MISCELLANEOUS APPURTENANCES.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.76 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

THE SITE SLOPES AWAY FROM VT ROUTE 14 AT GRADES RANGING FROM 2-15%. VEGETATION CONSISTS OF GRASS AND SCRUB BRUSH. THE SITE RECEIVES MINIMAL RUNOFF FROM OFFSITE AREAS. STORM WATER RUNOFF FROM THE PROJECT WILL FLOW IN A SOUTHERLY DIRECTION THROUGH OPEN SWALES AND ACROSS A NATURALLY VEGETATED AREA BEFORE CROSSING THROUGH AN EXISTING CULVERT UNDER ROUTE 2 AND INTO THE WINOOSKI RIVER. ONE EXISTING CATCH BASIN AT THE NORTH END OF THE SITE DRAIN UNDER ROUTE 14 AND DISCHARGE TO THE WINOOSKI RIVER. THIS CATCH BASIN DRAINS MOSTLY OFF-SITE FLOW, BUT MAY RECEIVE RUNOFF FROM THE WORKZONE.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

WINOOSKI RIVER IS LOCATED APPROXIMATELY 700' SOUTH EAST OF THE SITE, AND FLOWS NORTH TO THE SOUTH.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

VT ROUTE 14 BORDERS THE PROJECT TO THE WEST AND RANGES IN GRADE FROM 0.5% TO 2.0%. . THERE IS EXISTING UTILITY POLE ON THE SOUTH END OF THE SITE WHICH WILL BE THE POWER SOURCE FOR THE PROJECT LIGHTING.

1.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS MAINLY OF BRUSH AND GRASS, WITH SOME AREAS OF LAWN BORDERING ROUTE 14.

DISTURBED VEGETATION OUTSIDE OF THE PROPOSED PAVED PARKING AREA WILL BE REESTABLISHED WITH LANDSCAPING AND STANDARD SEED AND MULCH/EROSION MATTING PRACTICES.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WASHINGTON, VERMONT. SOILS ON THE PROJECT SITE ARE AS FOLLOWS:

CABOT SILT LOAM, 0% TO 3% SLOPES, "K FACTOR" = 0.32 (54.7%) AND SALMON VERY FINE SANDY LOAM 8-15% SLOPES, 'K FACTOR" = 0.49. THE SOILS ARE CONSIDERED MODERATELY ERODIBLE, AND HIGHLY ERODABLE RESPECTIVELY.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL: 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: WINOOSKI RIVER
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC). BARRIER FENCE IS NOT ANTICIPATED TO BE NEEDED AS THERE ARE NO WATER RESOURCES OR WETLANDS WITHIN 100' OF PROJECT DISTURBANCE.

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE. PDF SHALL BE INSTALLED TIGHT TO THE CONSTRUCTION LIMITS NEAR THE EXISTING DRAINAGE DITCH IN THE SOUTHEAST CORNER OF THE SITE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

PDF FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. STONE AND BLOCK INLET PROTECTION WILL BE INSTALLED ON EXISTING DROP INLET OFF ROUTE 14.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT IS ADJACENT TO VT ROUTE 14, THEREFORE, IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

STONE CHECK DAMS WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN, AT A MINIMUM.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE PROJECT DOESN'T CURRENTLY REQUIRE AN OPERATIONAL STORMWATER PERMIT.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

IT IS ANTICIPATED THAT THIS PROJECT WILL EXTEND INTO THE WINTER CONSTRUCTION SEASON.

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

DE-WATERING ACTIVITIES ARE NOT ANTICIPATED AS PART OF THIS PROJECT. IN THE EVENT DE-WATERING IS NECESSARY, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST TO THE PROJECT.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE BY CONTRACTOR

1.5.2 OFF-SITE ACTIVITIES

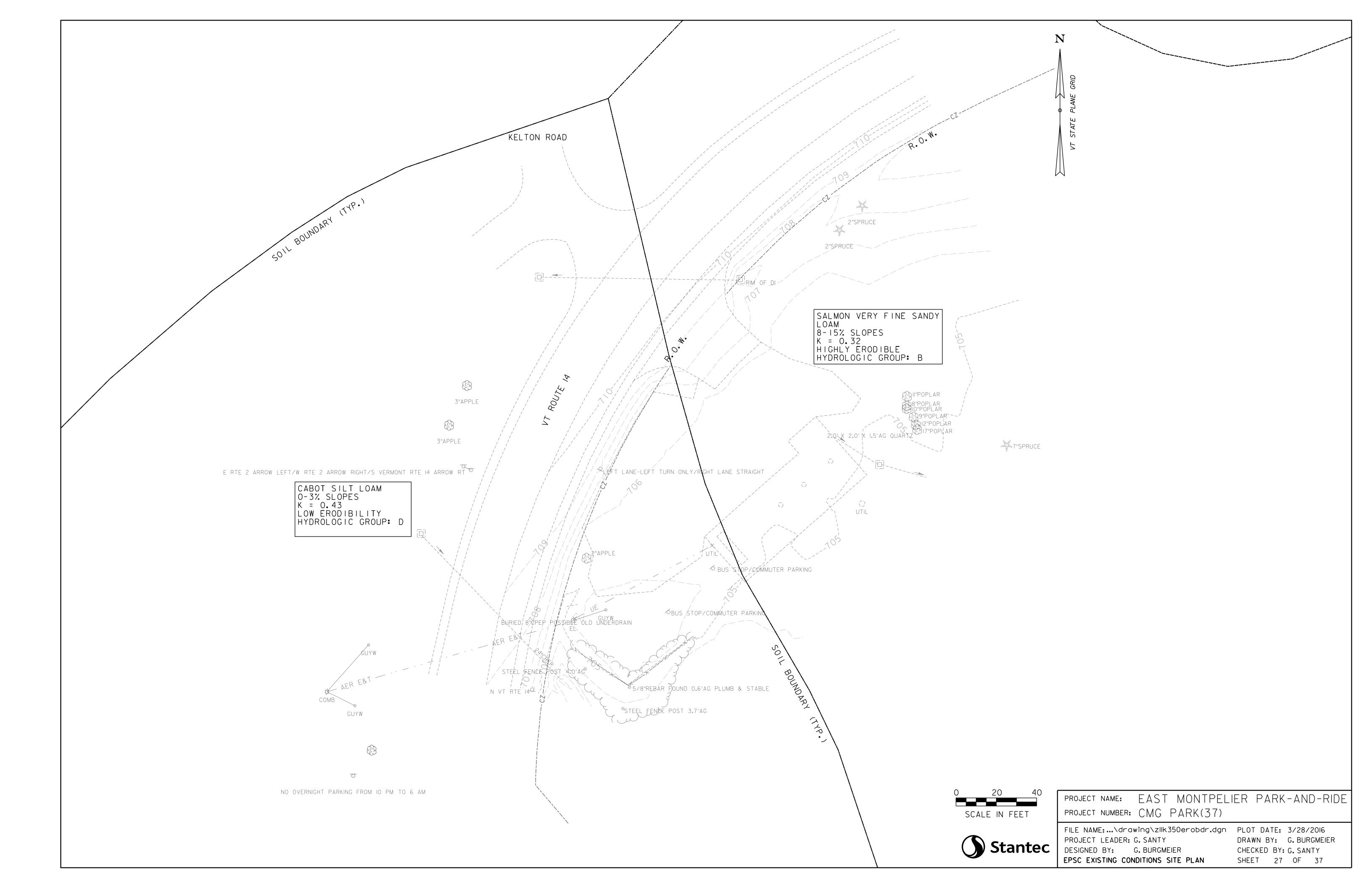
IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

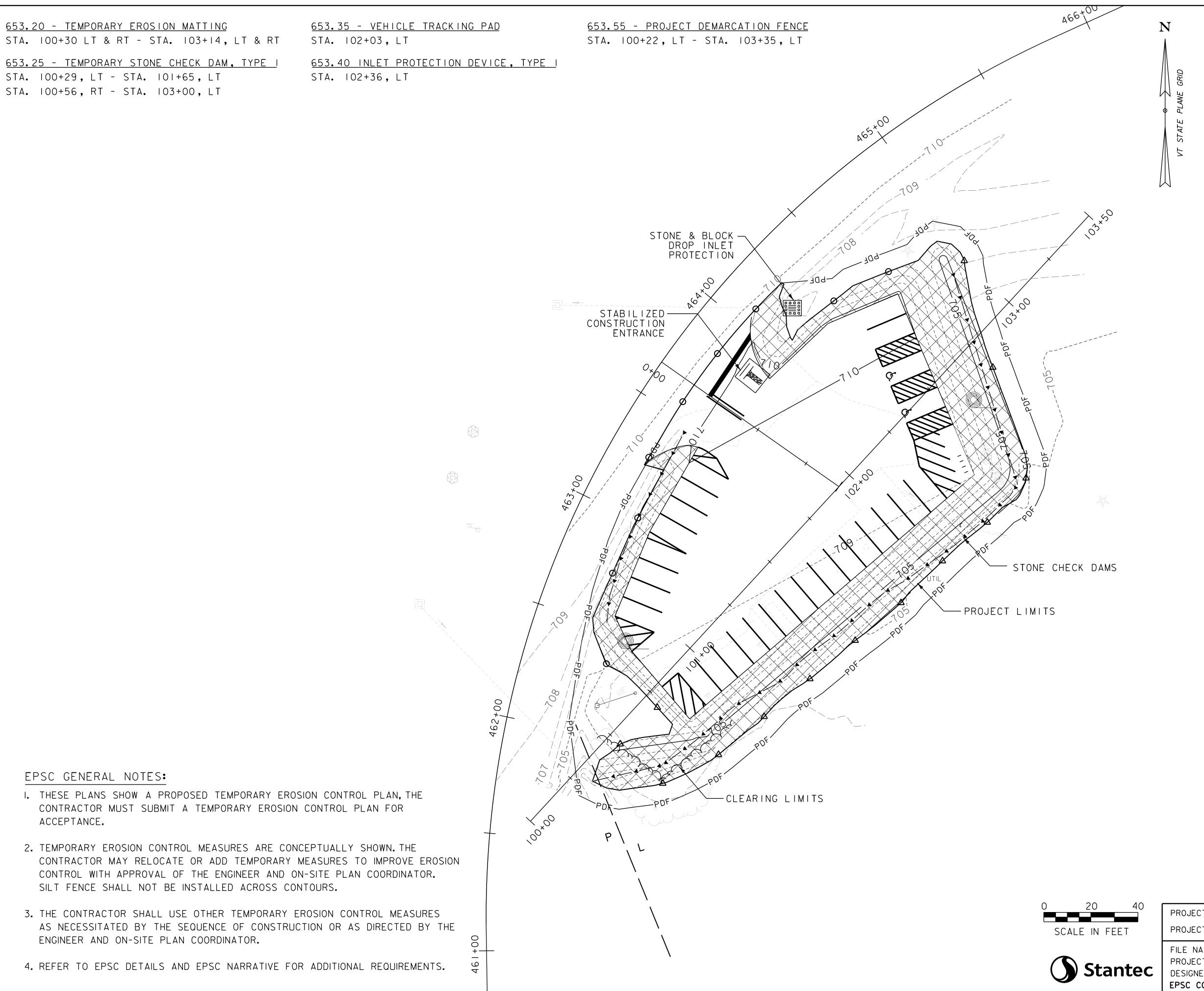
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)



FILE NAME: ...\drawing\zlik350typ.dgn PLOT DATE: 3/28/2016
PROJECT LEADER: G. SANTY DRAWN BY: STANTEC
DESIGNED BY: G. BURGMEIER CHECKED BY: G. SANTY

EPSC NARRATIVE SHEET 26 OF 37





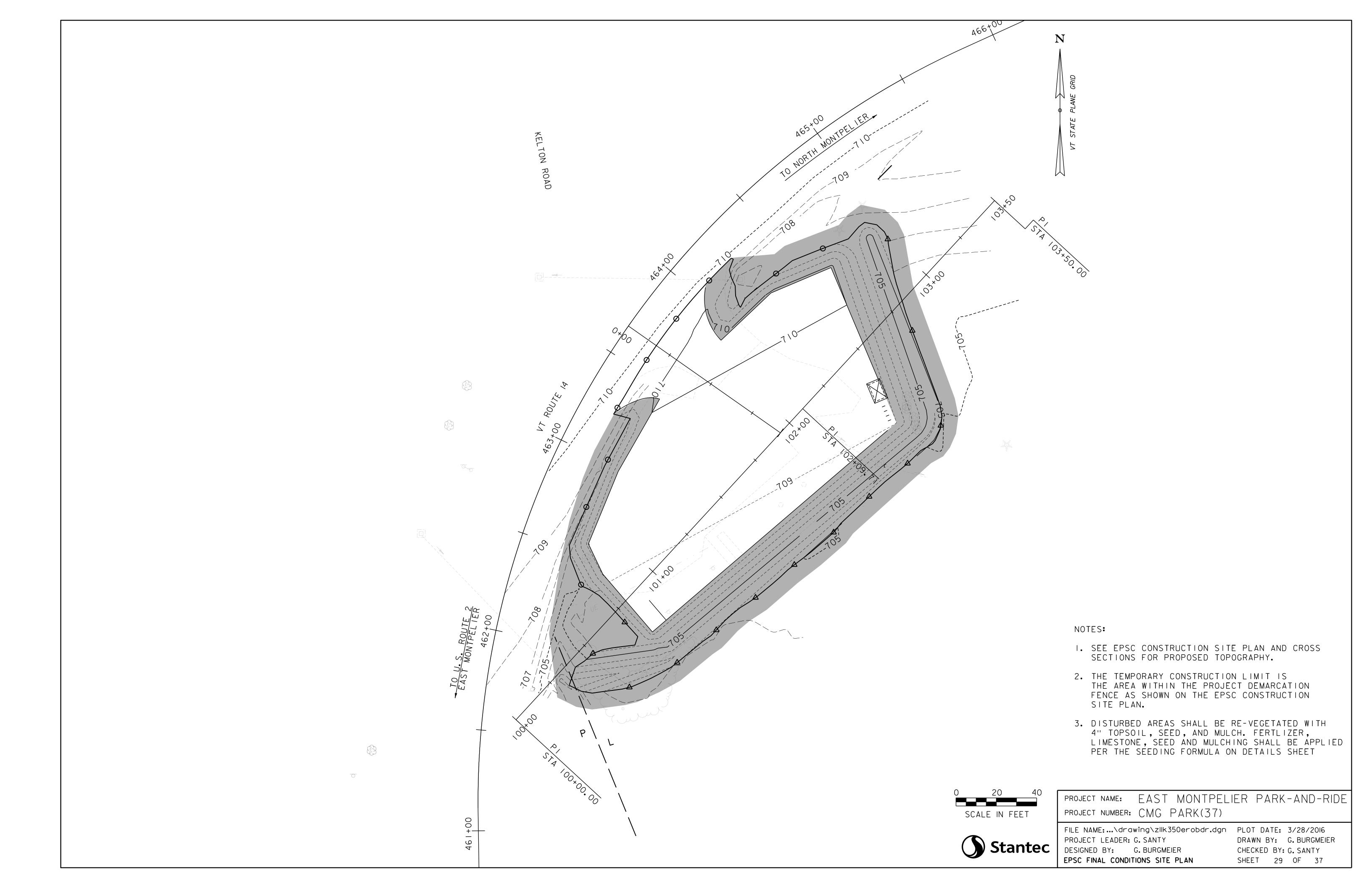
GENERAL CONSTRUCTION SEQUENCE

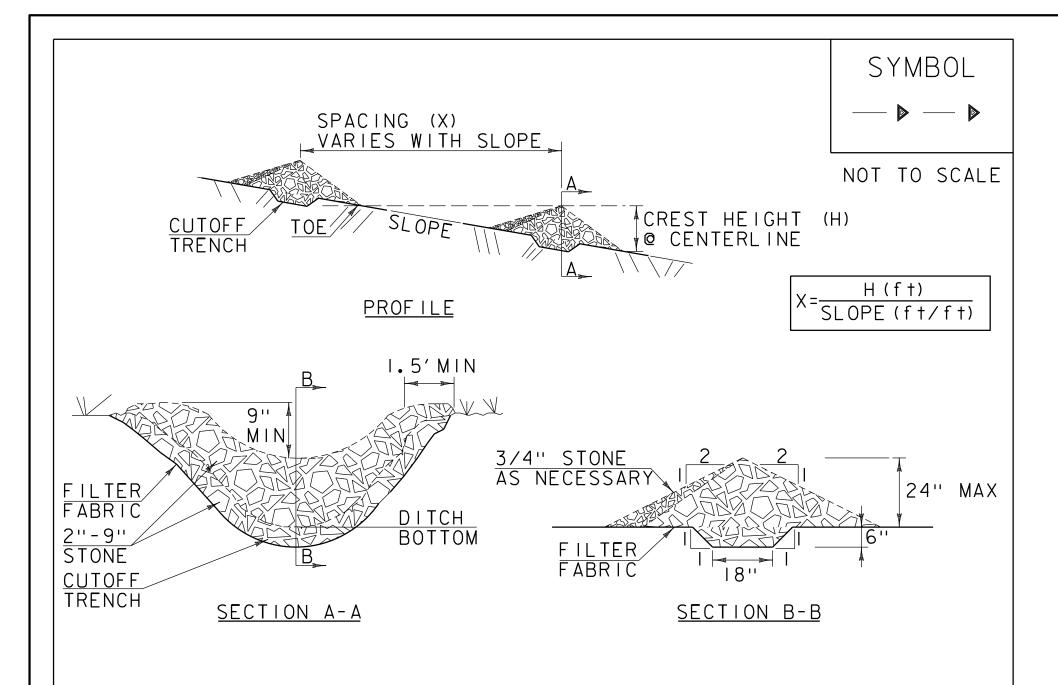
- I. DEMARCATE WORK ZONE WITH PROJECT DEMARCATION FENCE (PDF) OR BARRIER FENCE (BF) AS SHOWN ON THE PLANS. FENCE INSTALLED NO MORE THAN 10' BEYOND CONSTRUCTION LIMITS UNLESS APPROVED BY THE ENGINEER.
- 2. CLEAR AND GRUB THE SITE. DO NOT REMOVE STUMPS, EXCESS SOILS, AND OTHER WASTE MATERIALS UNTIL TEMPORARY E.P.S.C. MEASURES HAVE BEEN INSTALLED.
- 3. INSTALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES. AS SHOWN, AS REQUIRED, OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR, IN THE FOLLOWING ORDER:
- A. STABILIZED CONSTRUCTION ENTRANCE (VEHICLES ARE REQUIRED TO DRIVE OVER THE 50' SCE BEFORE EXITING THE CONSTRUCTION LIMITS.
- B. INLET PROTECTION ON EXISTING DROP INLETS AND CATCH BASINS.
- C. STONE CHECK DAMS (SEE EPSC DETAILS I) FOR CONSTRUCTION NOTES AND DETAILS).
- D. EROSION MATTING (SEE EPSC DETAILS 2) FOR CONSTRUCTION NOTES AND DETAILS).
- 4. DISPOSE OF STUMPS, EXCESS SOILS AND OTHER WASTE MATERIAL IN ACCORDANCE WITH SPECIFICATION 105.25 CONTROL OF WASTE, BORROW AND STAGING.
- 5. COMPLETE CONSTRUCTION OF NEW PARK-AND-RIDE LOT.
 - A. INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE SPECIFICATIONS AND SPECIAL PROVISIONS.
 - B. DISPOSE OF COLLECTED SEDIMENT AND OTHER POLLUTANTS IN A MANNER APPROVED BY THE ENGINEER THAT WILL NOT RESULT IN SEDIMENTS AND POLLUTANTS ENTERING WATERS OF THE STATE.
- 6. PERMANENTLY STABILIZE ALL FINISHED GRADES AS EARTHWORK IS COMPLETED INCLUDING CHANNEL LININGS, SEEDING AND MULCHING (PERMANENT TURF ESTABLISHMENT).

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350erobdr.dgn PLOT DATE: 3/28/2016 PROJECT LEADER: G. SANTY DESIGNED BY: G. BURGMEIER EPSC CONSTRUCTION SITE PLAN

DRAWN BY: G. BURGMEIER CHECKED BY: G. SANTY SHEET 28 OF 37





CONSTRUCTION SPECIFICATIONS

- I. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
- 2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
- 3.3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
- 4.EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- 5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- 6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- 7. MAXIMUM DRAINAGE AREA 2 ACRES.

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

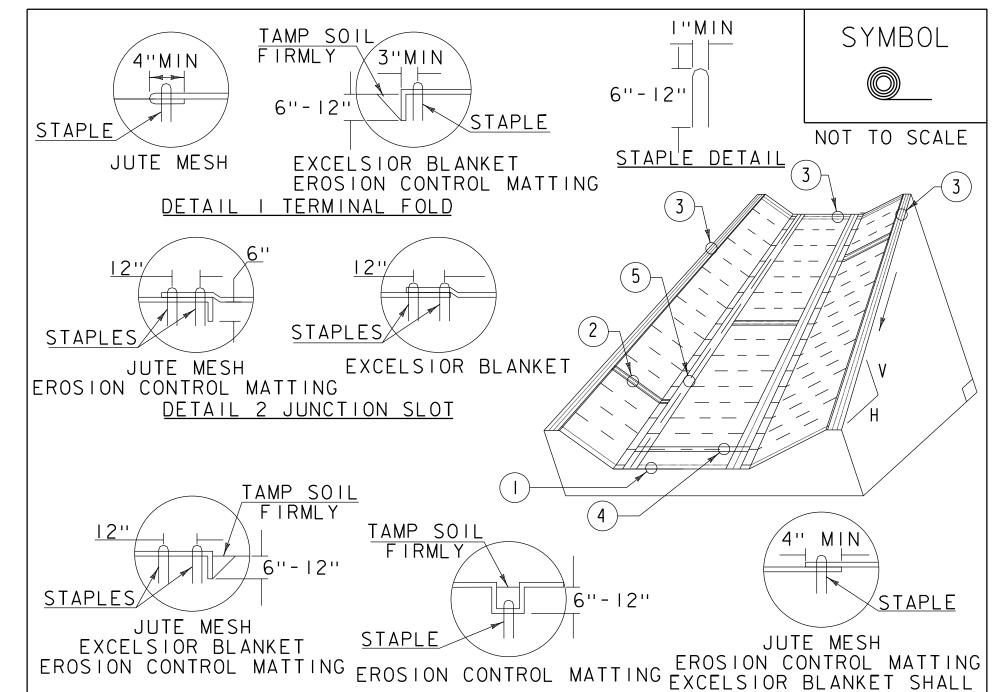
CHECK DAM

NOTES:

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM. TYPE I(PAY | ITEM 653.25)

DEVICIONS	
REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8,2009	WHF



DETAIL 5 LAP JOINT CONSTRUCTION SPECIFICATIONS

I.EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.

DETAIL 4 CHECK_SLOT

- 2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
- 3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X 150' ROLL OF MATERIAL.
- 4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
- 5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

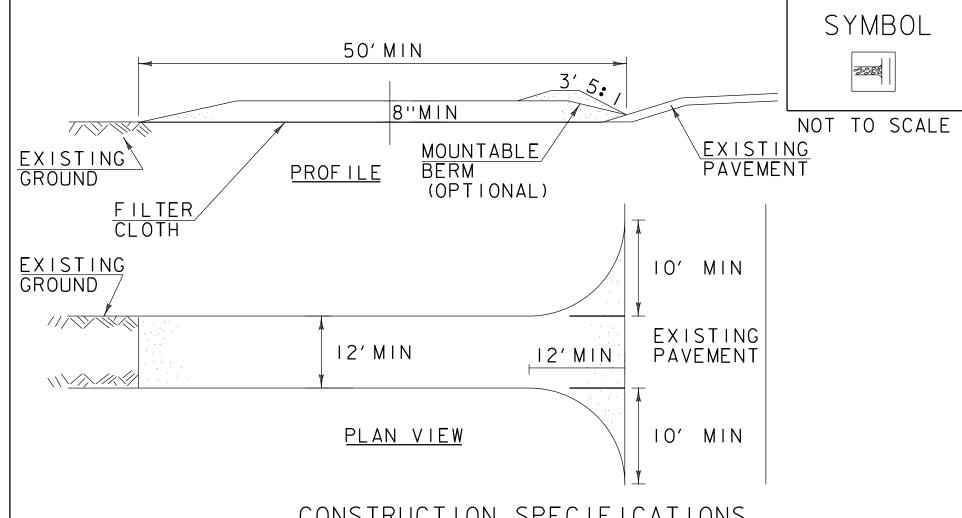
BE BUTTED TOGETHER

DETAIL 3 ANCHOR SLOT

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS MARCH 8. 2007 APRIL 16, 2007 WHF JANUARY 13, 2009 WHF



CONSTRUCTION SPECIFICATIONS

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

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

STABILIZED CONSTRUCTION ENTRANCE

NOTES:

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

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

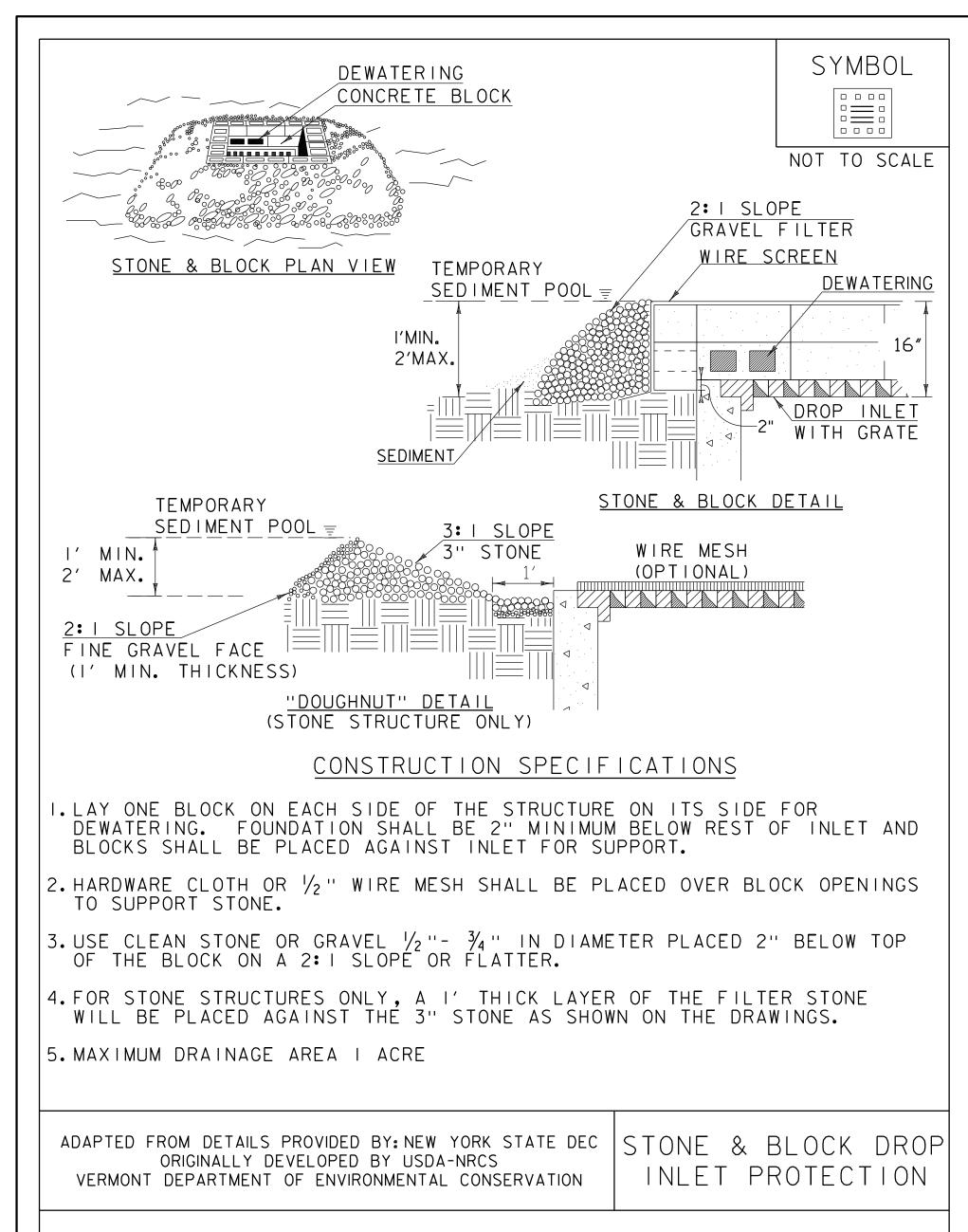
REVISIONS MARCH 24, 2008 WHF JANUARY 13.2009 WHF

EAST MONTPELIER PARK-AND-RIDE PROJECT NAME: PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350typ.dgn PROJECT LEADER: -DESIGNED BY: -

EPSC DETAILS SHEET I

PLOT DATE: 3/28/2016 DRAWN BY: -CHECKED BY: -SHEET 30 OF 37

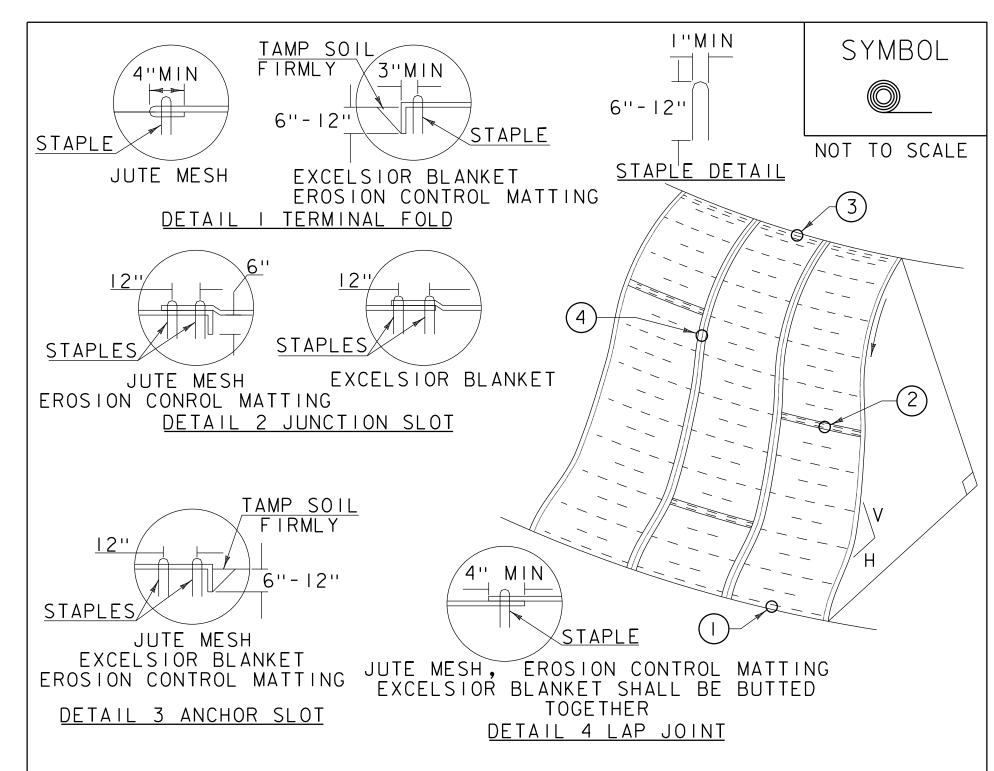


NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).

| GUIDANCE.

REVISIONS	
MARCH 6,2008	WHF
JANUARY 13, 2009	WHF



CONSTRUCTION SPECIFICATIONS

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

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION ROLLED EROSION
CONTROL PRODUCT
(RECP) SIDE SLOPE

NOTES:

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

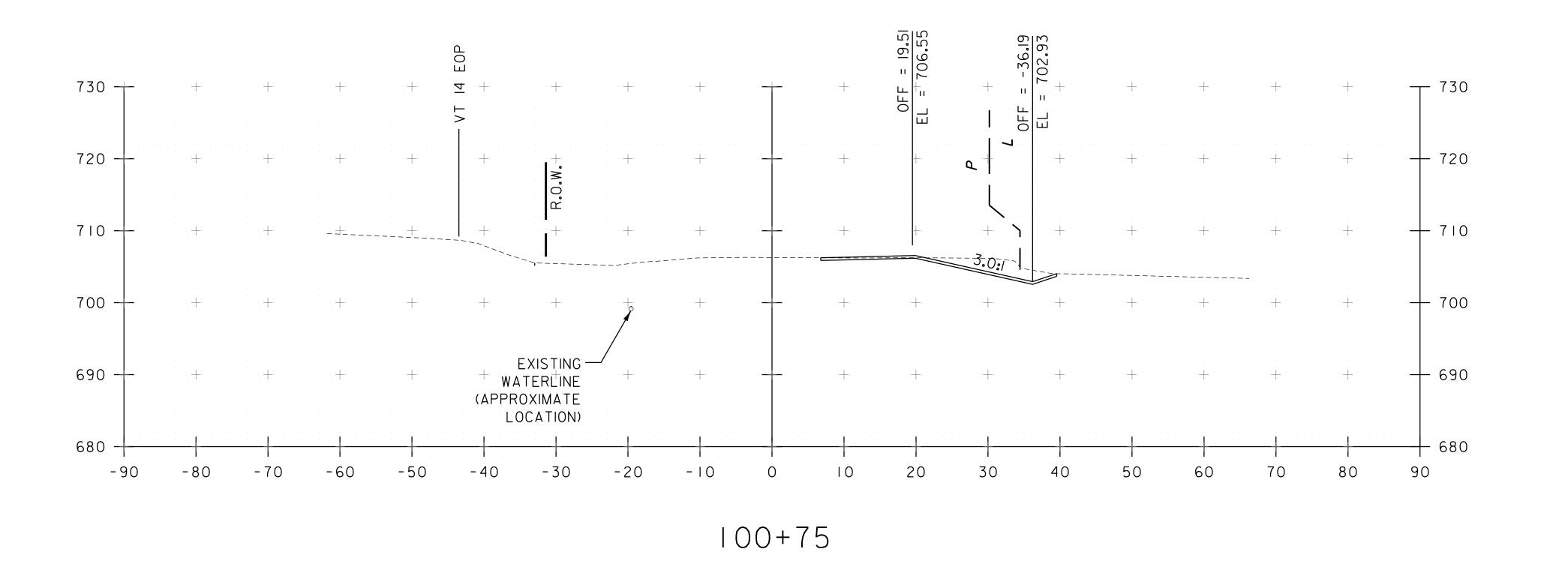
REVISIONS
APRIL 16, 2007 JMF
JANUARY 13, 2009 WHF

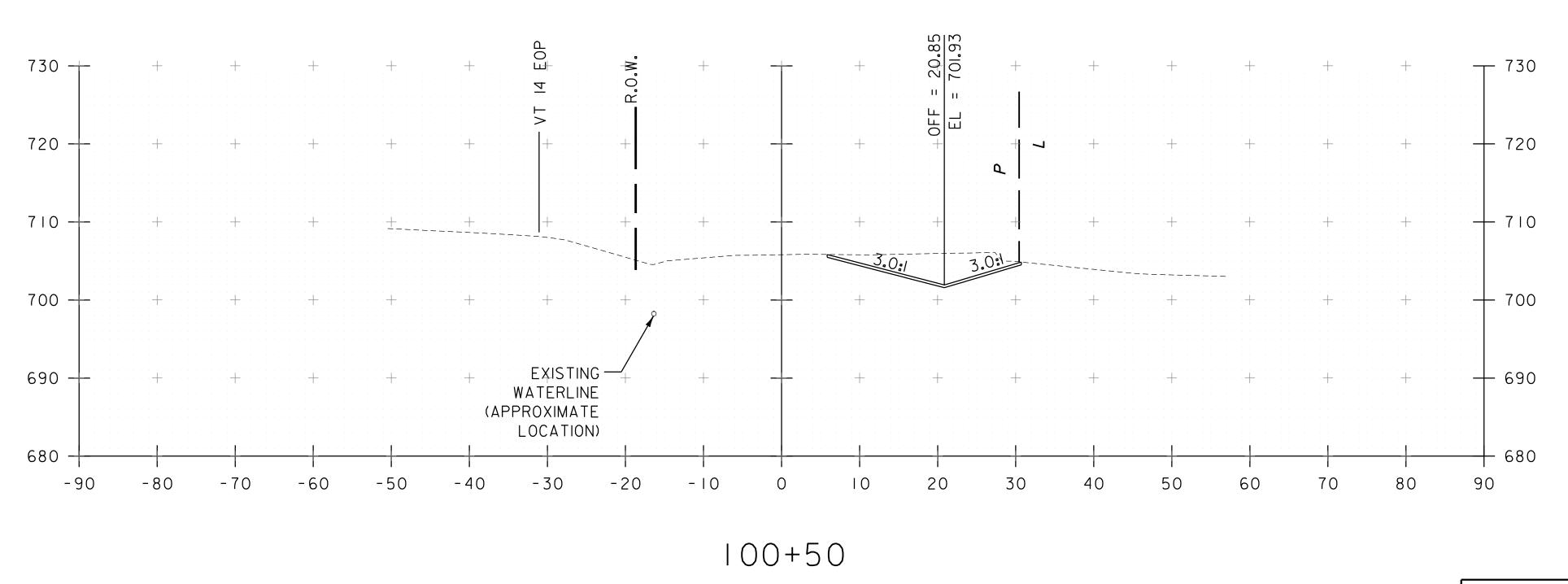
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\zllk350typ.dgn
PROJECT LEADER: DESIGNED BY: -

EPSC DETAILS SHEET 2

PLOT DATE: 3/28/2016
DRAWN BY: CHECKED BY: SHEET 31 OF 37





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PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

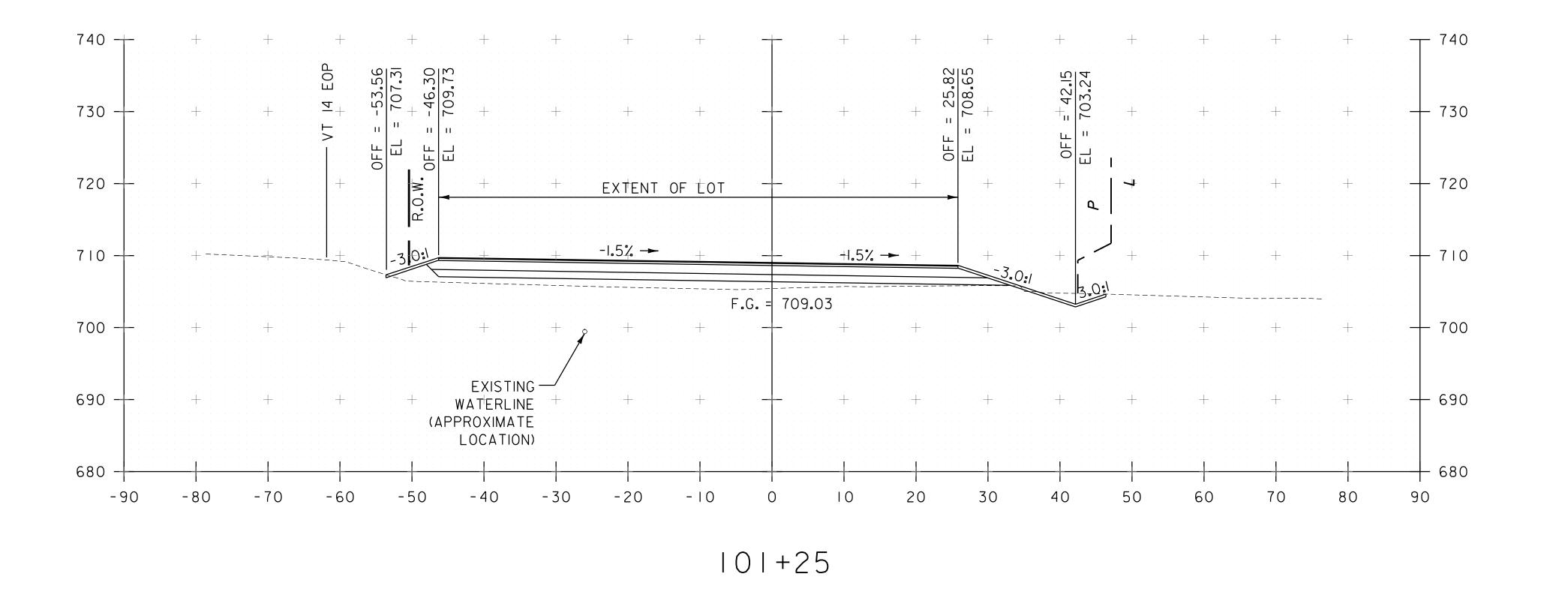
FILE NAME: zIIK350xs.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
CROSS SECTIONS SHEET I

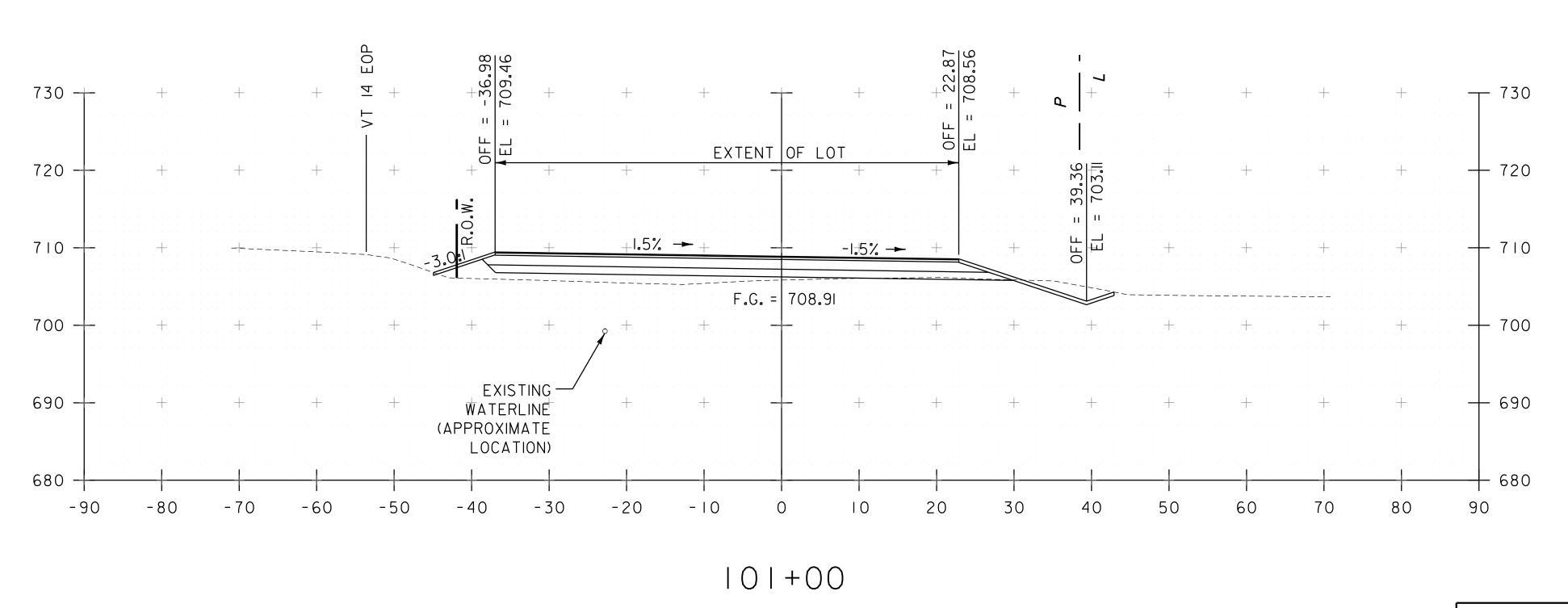
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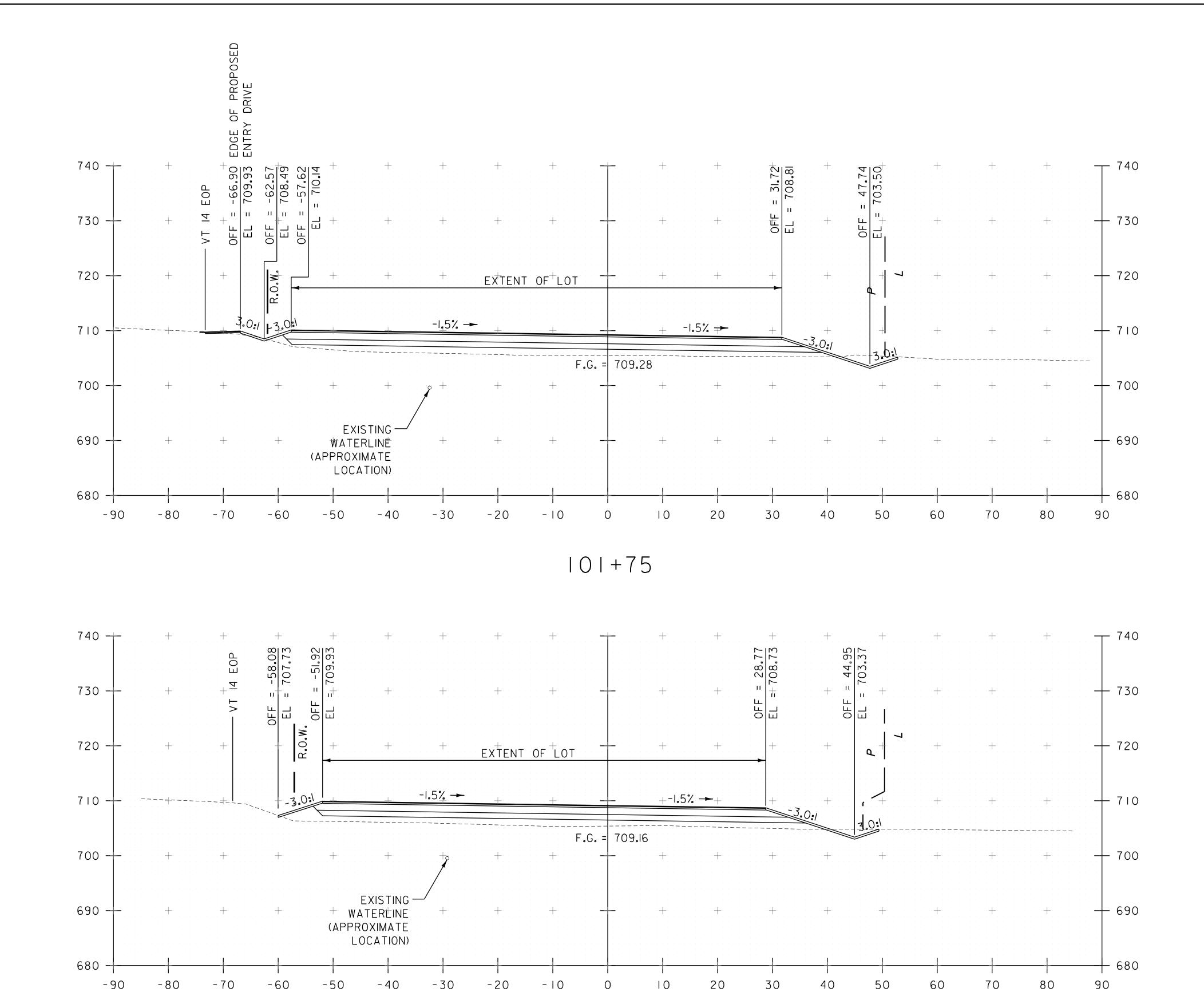
DRAWN BY: G. BURGMEIER

CHECKED BY: G. SANTY

SHEET 32 OF 37







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Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)

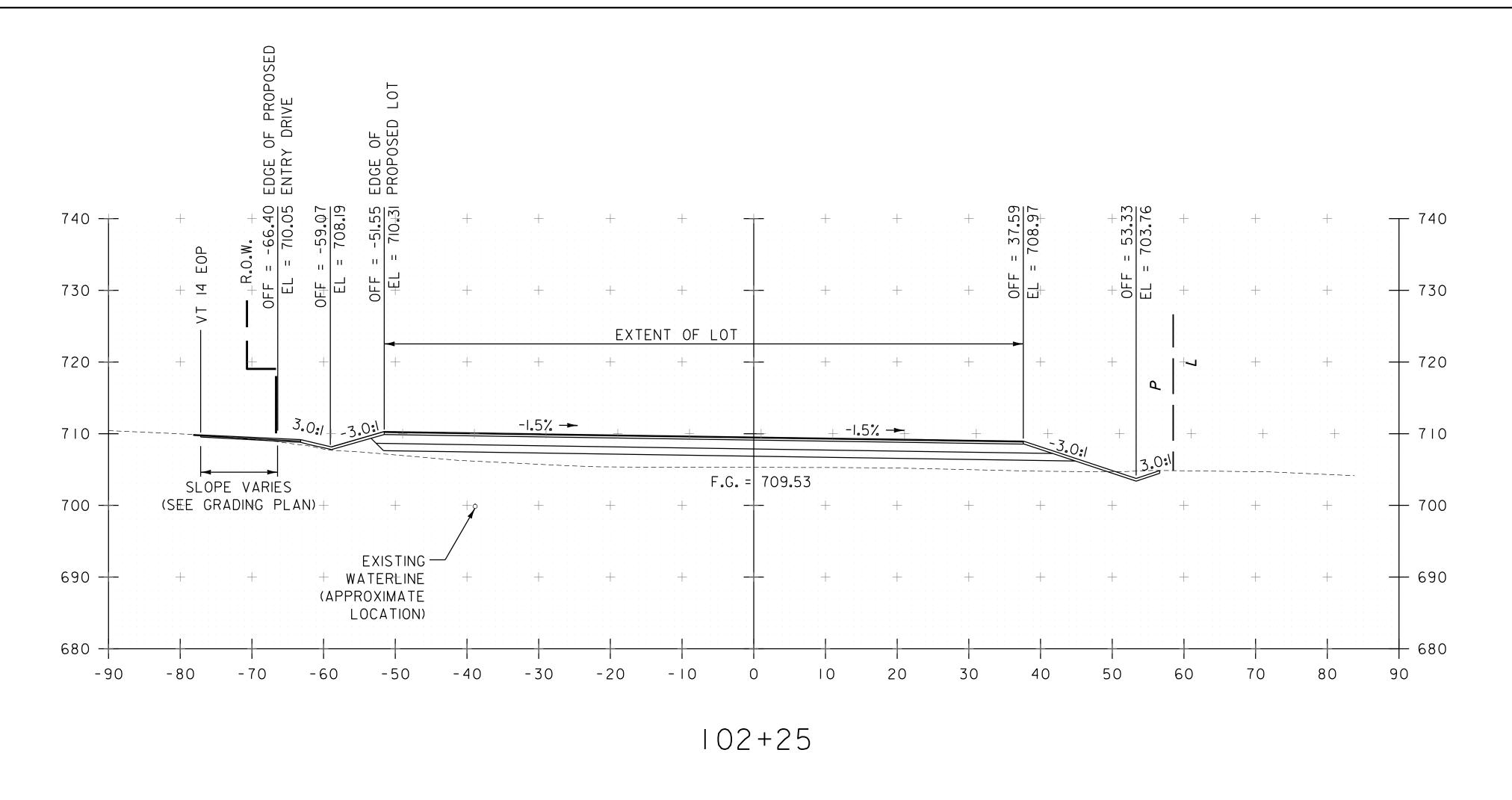
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PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
CROSS SECTIONS SHEET 3

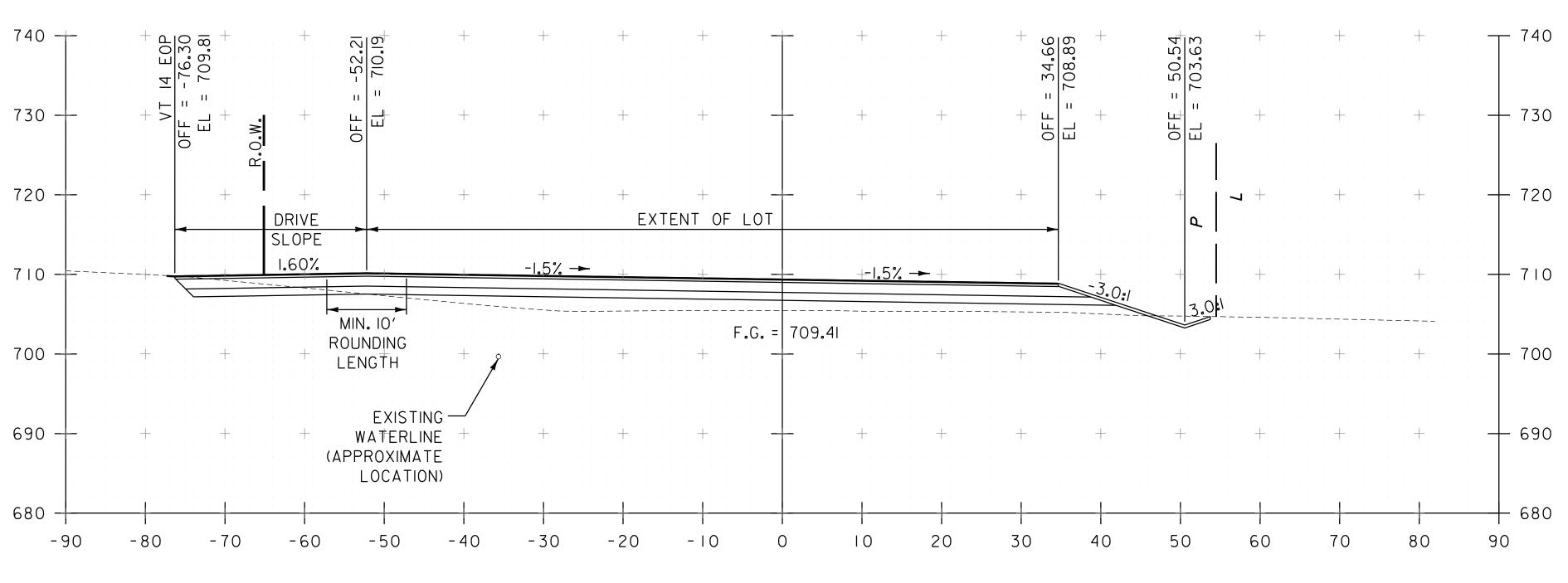
PLOT DATE: 3/28/2016

DRAWN BY: G. BURGMEIER

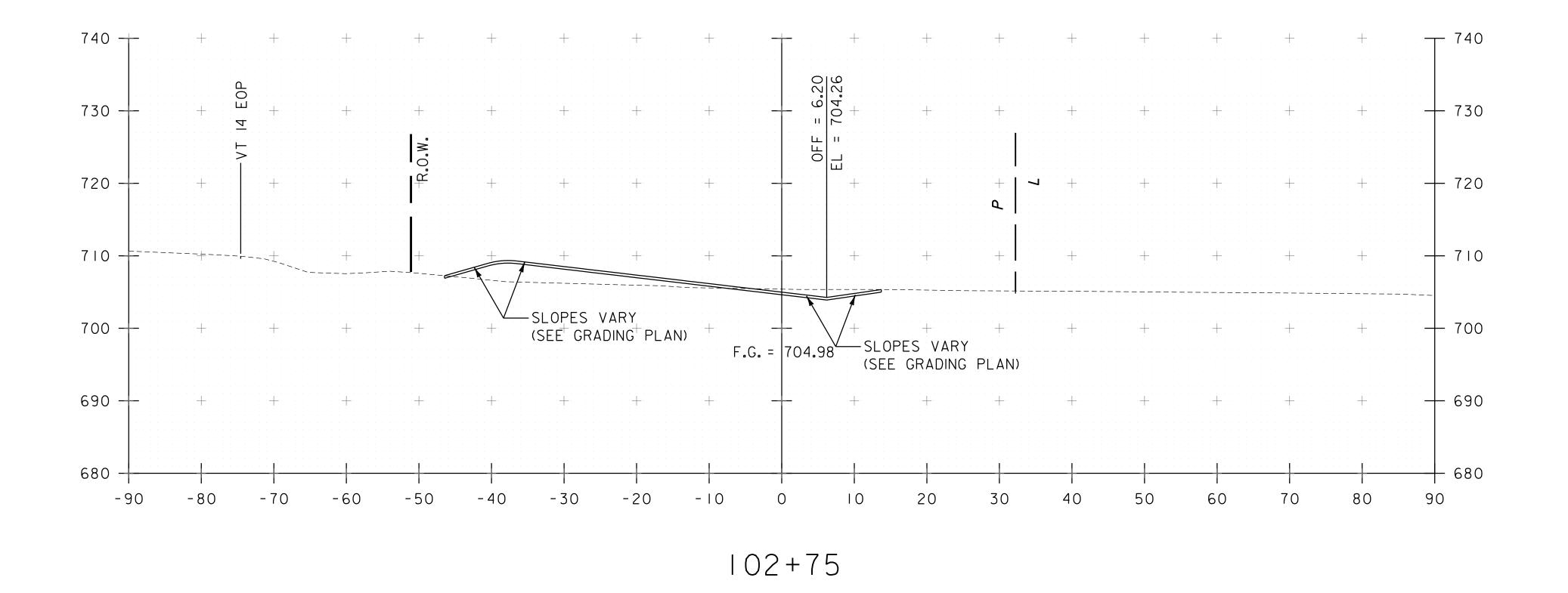
CHECKED BY: G. SANTY

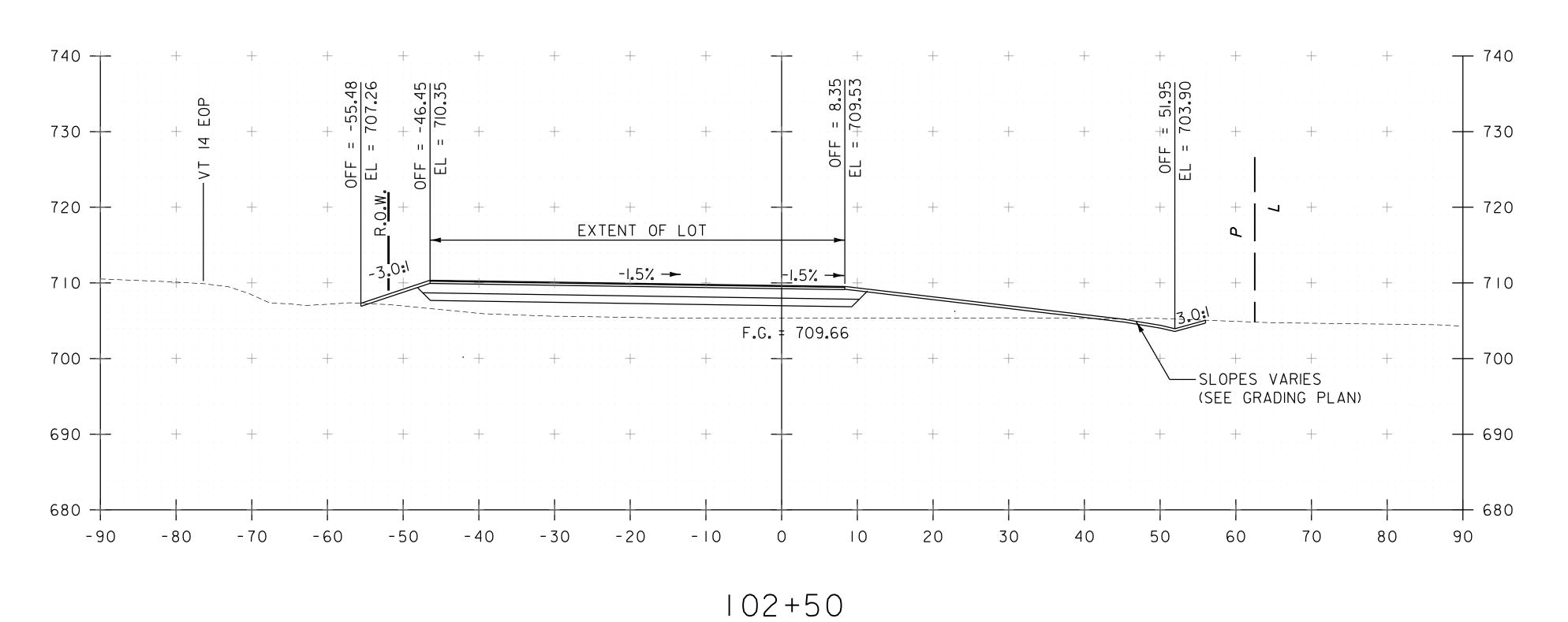
SHEET 34 OF 37

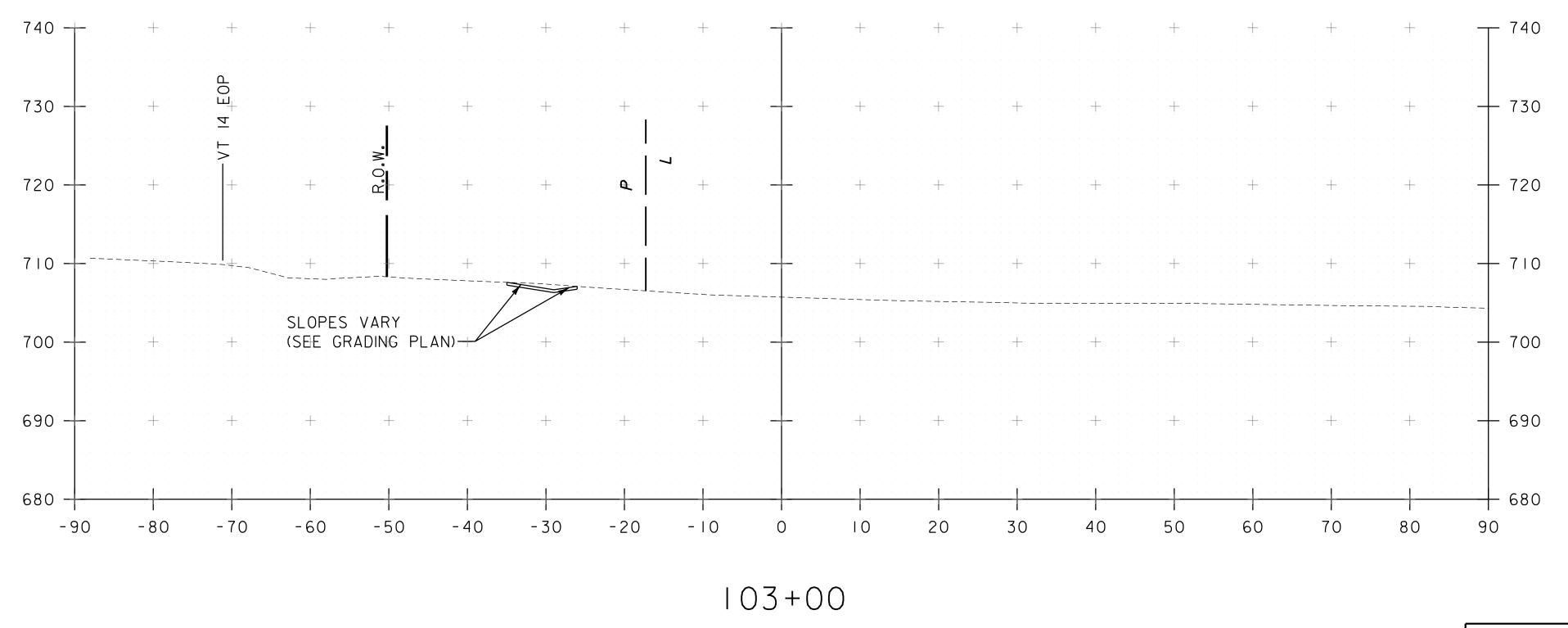




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Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE PROJECT NUMBER: CMG PARK(37)