

ADDENDUM NO. 1

Date: April 5, 2018

To: All Bidders

From: City of Oak Ridge, Cannon & Cannon, Inc.

Project: Oak Ridge Turnpike Intersection Pedestrian Safety Improvements
Oak Ridge Project No.: FY2018-139
TDOT PIN: 122976.00
TDOT Project No.: 01LPLM-F3-031
Federal Project No.: TAP-STP-M-9115(20)

Bid Opening: April 17, 2018 at 3:00 pm (Eastern Time)

This Addendum consists of two (2) pages and the following attachments:

- Revised Bid Form
- Revised Plan Sheets: 1A, 1A1, 2, 4A, and 5A

This Addendum becomes part of the Contract Documents and amends or supplements the original plans and specifications as noted below.

1. The following topics were discussed at the Pre-bid Meeting on March 28, 2018:
 - The project completion time is inclusive of the time to order and receive materials.
 - Addenda to the Proposal shall be acknowledged by all bidders. It is the responsibility of each bidder, prior to submitting bids, to determine if addenda were issued and to make such addenda part of their bid. Specifically, bidders must print off, initial, and submit each and every addendum to the Instructions to Bidders by attaching the addenda to the inside front cover of the bound Bid Proposal Contract.
2. The following questions or comments were raised subsequent to the Pre-bid Meeting:
 - Question/Comment 1: Requested clarification on Footnote 17 on Sheet 2 regarding the hardwire interconnect.
 - Answer: The existing signal system utilizes hardwire copper communication. This communication system will need to be integrated with the new cabinets and controllers. This integration shall be paid under the price bid for pay item 730-15.32. Additionally, the cabinet shall not restrict the City from using fiber optic communication in the future.
 - Question/Comment 2: Requested clarification on Footnote 18 on Sheet 2 regarding the signal controller brand.
 - Answer: The controller shall be an Advanced Traffic Controller model, however, the specific controller and manufacturer/brand is up to the Contractor. The controller shall be capable of coordinated signal operation with adjacent signals on the Turnpike.
3. The Bid Form was revised to include the following:
 - Added pay item 611-03.05, Gray Iron Castings (ADA Grate), 1 Each

- Added pay item 611-09.01, Adjustment of Existing Catch Basin, 3 Each
 - Total Bid Form pages increased from 2 to 3. The Total Bid summary is now on Page 3.
4. Sheet 1A was revised with updated revision dates for the following standard roadway drawings:
 - RP-H-7
 - RP-H-9 (date removed, drawing has not been revised)
 - T-M-1
 - T-M-2
 5. Sheet 1A1 was revised with updated revision dates for the following standard traffic operations drawings:
 - T-SG-7
 - T-SG-9
 - T-SG-9A
 - T-SG-10
 - T-SG-11
 - T-SG-12
 6. Sheet 2 was revised to include the addition of the following pay items and quantities:
 - 611-03.05, Gray Iron Castings (ADA Grate), 1 Each
 - 611-09.01, Adjustment of Existing Catch Basin, 3 Each
 7. Sheet 4A was revised to include a flagged note to install a new truncated dome surface on the existing curb ramp in the southwest corner.
 8. Sheet 5A was revised to include flagged notes to adjust existing catch basins on the south side of the Turnpike.
 9. Bidders must acknowledge receipt of this Addendum by initialing and attaching it to the inside front cover of the bound Bid Proposal Contract.

END OF ADDENDUM NO. 1

BID FORM

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
105-01	CONSTRUCTION STAKES, LINES AND GRADES	1	LS		
201-01	CLEARING AND GRUBBING	1	LS		
202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	230	SY		
202-03.01	REMOVAL OF ASPHALT PAVEMENT	475	SY		
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	37	CY		
203-04	PLACING AND SPREADING TOPSOIL	130	CY		
209-03.20	FILTER SOCK (8 INCH)	700	LF		
209-05	SEDIMENT REMOVAL	20	CY		
209-09.43	CURB INLET PROTECTION (TYPE 4)	8	Each		
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	340	Ton		
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING BM-2	24	Ton		
411-02.10	ACS MIX (PG70-22) GRADING D	17	Ton		
611-03.05	GRAY IRON CASTINGS (ADA GRATE)	1	Each		
611-09.01	ADJUSTMENT OF EXISTING CATCH BASIN	3	Each		
701-01.01	CONCRETE SIDEWALK (4")	1515	SF		
701-02	CONCRETE DRIVEWAY	830	SF		
701-02.03	CONCRETE CURB RAMP	1420	SF		
702-01	CONCRETE CURB	6	CY		
702-03	CONCRETE COMBINED CURB & GUTTER	35	CY		
712-01	TRAFFIC CONTROL	1	LS		
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	100	Each		
712-05.03	WARNING LIGHTS (TYPE C)	100	Each		
712-06	SIGNS (CONSTRUCTION)	604	SF		
712-08.03	ARROW BOARD (TYPE C)	2	Each		
713-15.02	REMOVAL & RELOCATION OF SIGN & SUPPORT	2	Each		
713-15.36	REMOVE SIGN, SUPPORT & FOOTING	1	Each		
713-16.41	RELOCATE SIGN	1	LS		
714-01.36	ROADWAY LIGHTING	1	LS		
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	280	LF		
716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	140	LF		

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
716-02.09	PLASTIC PAVEMENT MARKING (CUSTOM LADDER CROSS-WALK)	620	LF		
716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	36	SF		
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	200	LF		
716-08.03	REMOVAL OF PAVEMENT MARKING (CROSS-WALK)	420	LF		
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	285	LF		
716-10.30	TRUNCATED DOME DETECTABLE WARNING MAT	8	SF		
716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	0.1	LM		
717-01	MOBILIZATION	1	LS		
730-01.02	REMOVAL OF SIGNAL EQUIPMENT	1	Each		
730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	16	Each		
730-02.30	SIGNAL HEAD ASSEMBLY (140A4F WITH BACKPLATE)	6	Each		
730-03.21	INSTALL PULL BOX (TYPE B)	10	Each		
730-05.04	MODIFY EXISTING ELECTRICAL SERVICE CONNCECTION	2	Each		
730-08.01	SIGNAL CABLE - 3 CONDUCTOR	1300	LF		
730-08.02	SIGNAL CABLE - 5 CONDUCTOR	1750	LF		
730-08.03	SIGNAL CABLE - 7 CONDUCTOR	3250	LF		
730-12.02	CONDUIT 2" DIAMETER (PVC)	370	LF		
730-12.03	CONDUIT 3" DIAMETER (PVC)	150	LF		
730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	1650	LF		
730-13.13	VEHICLE DETECTOR (RADAR)	8	Each		
730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	2	Each		
730-16.02	EIGHT PHASE ACTUATED CONTROLLER	2	Each		
730-23.30	PEDESTAL POLE (PEDESTRIAN)	6	Each		
730-23.88	CANTILEVER SIGNAL SUPPORT (1 ARM @ 45')	1	Each		
730-26.06	PEDESTRIAN PUSHBUTTON POST	4	Each		
730-26.09	PEDESTRIAN PUSHBUTTON WITH 15IN SIGN	2	Each		
730-26.11	CNTDWN PED SGNL HEAD W/ AUDIBLE PUSHBUTTON & 15IN SIGN	16	Each		
801-02	SEEDING (WITHOUT MULCH)	14	Unit		
801-03	WATER (SEEDING AND SODDING)	1	MG		
805-12.01	EROSION CONTROL BLANKET (TYPE 1)	1200	SY		

TOTAL BID \$ _____

TOTAL BID IN WORDS _____


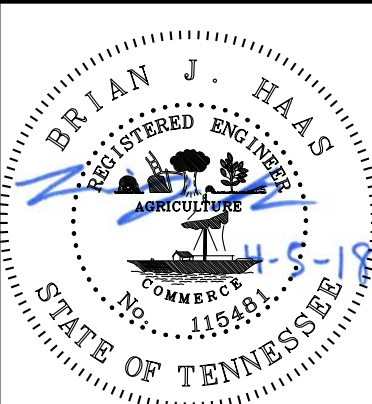
ROADWAY INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC OPERATIONS DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS, PAVING SCHEDULE, AND DETAILS	2A
GENERAL NOTES.....	2B – 2D
SPECIAL NOTES AND SCOPE OF WORK.....	2E
UTILITY NOTES AND UTILITY OWNERS.....	3
PRESENT LAYOUTS	4 – 5
PROPOSED LAYOUTS.....	4A – 5A
TRAFFIC CONTROL PLANS	6 – 6A
PROPOSED SIGNAL LAYOUT(S).....	7 – 8
SIGNAL OPERATIONAL SETTINGS.....	7A -8A
ROADWAY CROSS SECTIONS.....	9 – 11

NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS.

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-16	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-H-3	10-10-16	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	10-10-16	PERPENDICULAR CURB RAMP
RP-H-5	10-10-16	PARALLEL CURB RAMP
RP-H-6	10-10-16	PEDESTRIAN REFUGE
RP-H-7	07-05-17	PERPENDICULAR CURB RAMP IN CURVE
RP-H-8	10-10-16	PERPENDICULAR CURB RAMP PLACED OUTSIDE CURVE
RP-H-9		PARALLEL CURB RAMP IN CURVE
RP-S-7	02-05-16	DETAILS FOR CONCRETE SIDEWALKS
DESIGN - TRAFFIC CONTROL		
T-M-1	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-WZ-40	03-05-17	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-05-17	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-42	03-05-17	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-51	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON 4 OR 5 LANE MAJOR ROUTES
T-WZ-52	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON 4 OR 5 LANE MAJOR AND MINOR ROUTES
T-WZ-55	10-10-16	SIDEWALK TRAFFIC CONTROL
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4

 <p>CANNON & CANNON INC CONSULTING ENGINEERS · FIELD SURVEYORS TEL 865.670.8535 8550 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919</p>	
CLIENT:	
CITY OF OAK RIDGE	
PROJECT:	
OAK RIDGE TURNPIKE INTERSECTION PEDESTRIAN SAFETY IMPROVEMENTS	
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	
	CCI PROJECT NO. 00368-0027
	DATE 07-26-17
	P.M. BJH
	DRAWN TSN
	O.C. RJB
1A	

STANDARD TRAFFIC OPERATIONS DRAWINGS


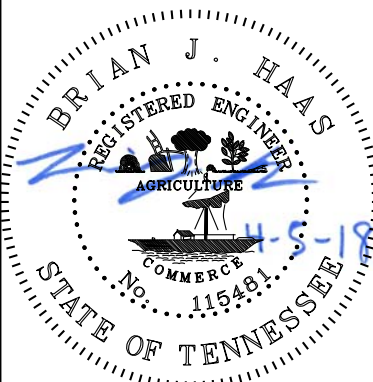
DWG.	REV.	DESCRIPTION
SIGNS		
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
SIGNALS		
T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-6		PEDESTRIAN SIGNAL DETAILS
T-SG-7	07-11-17	SIGNAL HEAD ASSEMBLIES
T-SG-7C		TYPICAL SIGNAL HEAD PLACEMENT ONE-LANE AND TWO-LANE APPROACHES
T-SG-7H		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE AND FOUR-LANE APPROACHES
T-SG-7L		TYPICAL SIGNAL HEAD PLACEMENT FOUR-LANE APPROACHES
T-SG-9	07-11-17	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	07-12-17	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	07-11-17	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-12-17	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	07-12-17	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
LIGHTING AND UTILITY POLES		
T-L-1SA	09-11-13	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

UPDATED STANDARD DRAWING REVISION DATES	04-05-18
REVISIONS	DATE
 CANNON & CANNON INC <small>CONSULTING ENGINEERS · FIELD SURVEYORS</small> TEL 865.670.8555 8550 Kingston Pike <small>WWW.CANNON-CANNON.COM</small> Knoxville, TN 37919	
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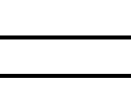


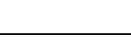




FOOT NOTES	ITEM NO.	DESCRIPTION	QTY.	UNIT
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	1	LS
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1	202-03.01	REMOVAL OF ASPHALT PAVEMENT	475	SY
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	717-01	MOBILIZATION	1	LS
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12	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	16	Each
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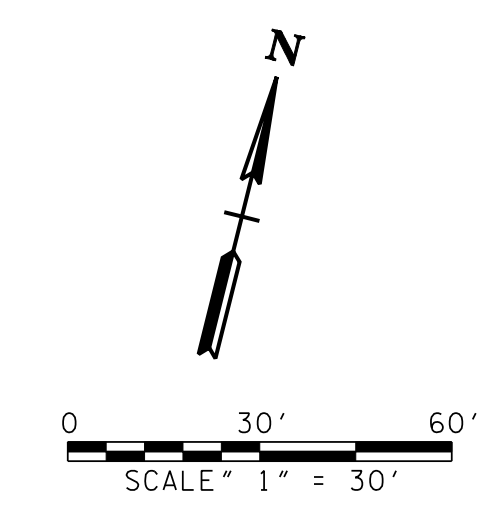
FOOTNOTES:

- (1) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- (2) ITEM INCLUDES TRUNCATED DOME SURFACE.
- (3) REMOVAL AND RELOCATION OF ONE "YIELD" SIGN AND ONE "SPEED LIMIT" SIGN. SEE SHEETS 4A AND 5A FOR LOCATIONS.
- (4) REMOVAL OF ONE "STOP" SIGN. SEE SHEET 5A FOR LOCATION.
- (5) RELOCATION OF ONE STREET NAME SIGN FROM EXISTING MAST ARM TO NEW MAST ARM AT OAK RIDGE TURNPIKE / TULANE INTERSECTION.
- (6) ITEM INCLUDES REMOVAL OF EXISTING STREET LIGHT AND INSTALLATION OF NEW STREET LIGHT AT OAK RIDGE TURNPIKE / TULANE INTERSECTION AND ALL WIRING AND OTHER INCIDENTALS NECESSARY FOR FULLY FUNCTIONAL LUMINAIRE ON NEW SIGNAL POLE.
- (7) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- (8) SEE SHEET 2A FOR CROSS-WALK DETAIL.
- (9) PAVEMENT MARKING REMOVAL SHALL BE COMPLETED USING WATERBLASTING, HYDROBLASTING, OR GRINDING TECHNIQUES TO MINIMIZE THE VISIBILITY OF EXISTING STRIPING.
- (10) ITEM IS FOR TRUNCATED DOME SURFACES TO BE INSTALLED ON EXISTING CURB RAMPS AS SHOWN ON SHEET 4A.
- (11) ITEM INCLUDES REMOVAL OF ALL MAST ARMS, VEHICULAR SIGNAL HEADS, PEDESTRIAN PEDESTAL POLES, PEDESTRIAN SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, CABINETS, WIRING, AND ASSOCIATED CONTENTS AS SHOWN ON THE PLANS AT THE INTERSECTIONS OF TURNPIKE AT TULANE AND TURNPIKE AT EAST DIVISION / TENNYSON.
- (12) SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM/3" MAXIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER SHALL BE MADE OF ATYPE III PRISMATIC OR BETTER MATERIAL.
- (13) PULL BOXES SHALL HAVE "TRAFFIC SIGNAL" STAMPED ON THE LID.
- (14) ITEM INCLUDES CONDUIT, CABLE, AND ALL OTHER ITEMS NECESSARY TO MODIFY ELECTRICAL SERVICE CONNECTION FROM EXISTING TRAFFIC SIGNALS TO NEW TRAFFIC SIGNALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 730-05.04 FOR PAYMENT BY THE CONTRACTOR.
- (15) CONDUIT SHALL BE PVC SCHEDULE 80.
- (16) EQUIPMENT TO BE WAVETRONIX SMART SENSOR MATRIX DETECTION SYSTEM. INCLUDES ALL SENSOR UNITS, HARDWARE, SOFTWARE, MOUNTING ASSEMBLIES, 1,200 FEET OF POWER CABLE, AND RELATED EQUIPMENT TO PROVIDE ALL DETECTION ZONES AS SHOWN ON THE PLANS. CONTRACTOR TO ENSURE COMPATIBILITY WITH SIGNAL CONTROLLER.
- (17) CABINET SHALL BE NEMA TS2-TYPE 2, COMPLETE WITH PANELS, WIRING, AND OTHER INCIDENTALS REQUIRED FOR CLOSED LOOP OPERATION EMPLOYING EXISTING HARDWARE COMMUNICATION AND FUTURE FIBER COMMUNICATION. ITEM INCLUDES CONNECTING CABINET TO EXISTING HARDWARE SIGNAL INTERCONNECT.
- (18) CONTROLLER SHALL BE ATC.
- (19) ITEM INCLUDES COMPLETE POWER INSTALL TYPE FOUNDATION.
- (20) ITEM INCLUDES COMPLETE FOUNDATION PER TDOT STANDARDS.
- (21) PEDESTRIAN PUSHBUTTONS SHALL BE FULLY ACCESSIBLE AND AUDIBLE AND COMPLIANT WITH ALL REQUIREMENTS OF THE MUTCD, ADA, AND PROWAG.

ADDED PAY ITEMS 611-03.05 AND 611-09.01		04-05-18
REVISIONS	DATE	
 CANNON & CANNON INC CONSULTING ENGINEERS · FIELD SURVEYORS TEL 865.670.8555 8550 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919		
CLIENT:	CITY OF OAK RIDGE	
PROJECT:	OAK RIDGE TURNPIKE INTERSECTION PEDESTRIAN SAFETY IMPROVEMENTS	
ESTIMATED ROADWAY QUANTITIES		
	CCI PROJECT NO.	00368-0027
	DATE	07-26-17
	P.M.	BJH
	DRAWN	TSN
	O.C.	RJB
2		

PROPOSED LEGEND

-  FULL DEPTH ASPHALT
-  CONCRETE SIDEWALK
-  TRUNCATED DOME SURFACE
-  STOP BAR
-  YIELD BAR
-  6' WIDE CUSTOM LADDER CROSSWALK
-  6' WIDE PARALLEL CROSSWALK
-  SIGN
-  DETACHED CURB
-  COMBINED CURB AND GUTTER
-  BASELINE W/ 100 FT TICKS
-  SIGNAL STRAIN POLE
-  PEDESTRIAN PEDESTAL POLE
-  PEDESTRIAN PUSHBUTTON POST



STA. 64+70.00
N 616832.1193
E 2483937.0632

100

105

STA. 100+00.00
N 616453.7465
E 2483667.0901

STA. 107+60.00
N 616641.7194
E 2484403.5386

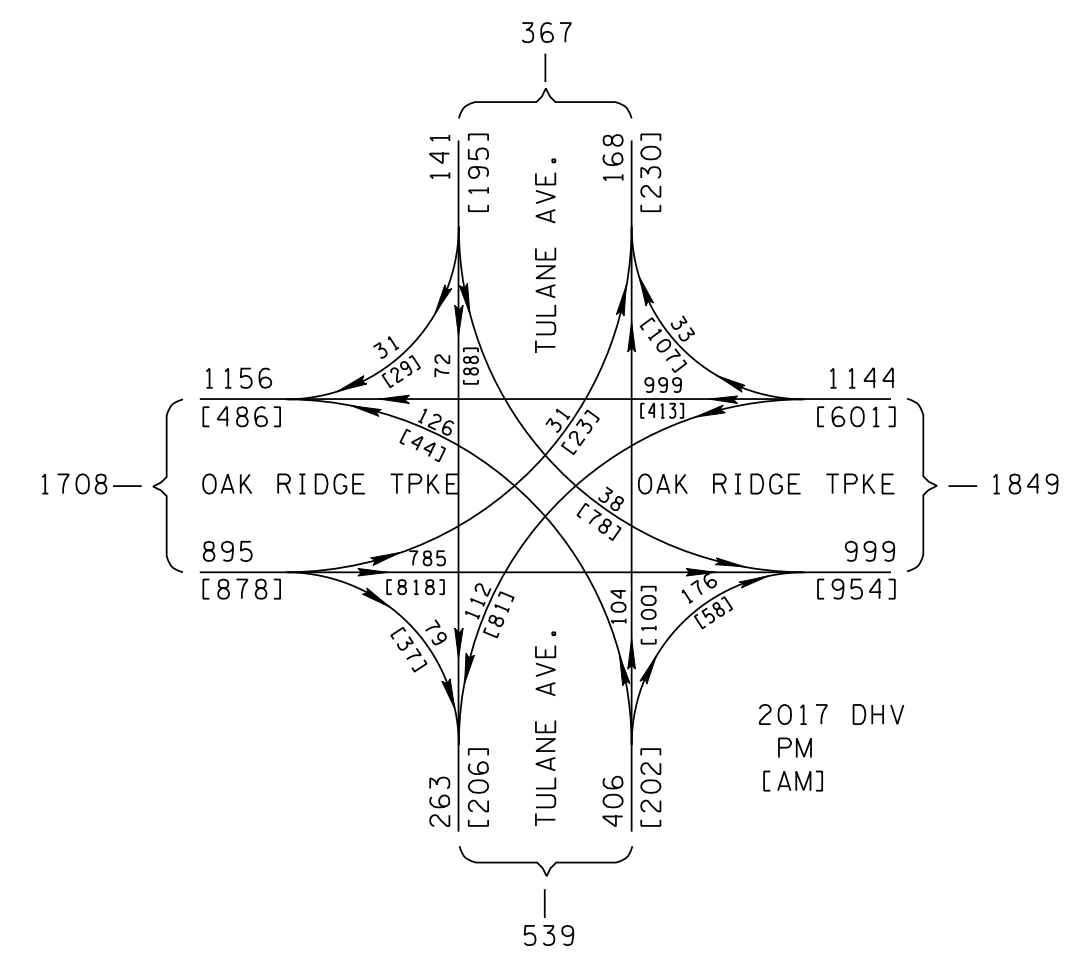
CROSSWALK NOTES

SEE SHEET 2A FOR LADDER CROSSWALK DETAILS.
ALL EXISTING PARALLEL TYPE CROSSWALKS SHALL BE REMOVED.

01LPLM-F3-031
BEGIN PROJ. NO. TAP-STP-M-9115(20)
STA. 102+58.31 (CONST.)
N 616450.2306
E 2483934.5589


01LPLM-F3-031
END PROJ. NO. TAP-STP-M-9115(20)
STA. 104+55.42 (CONST.)
N 616515.1834
E 2484121.4112

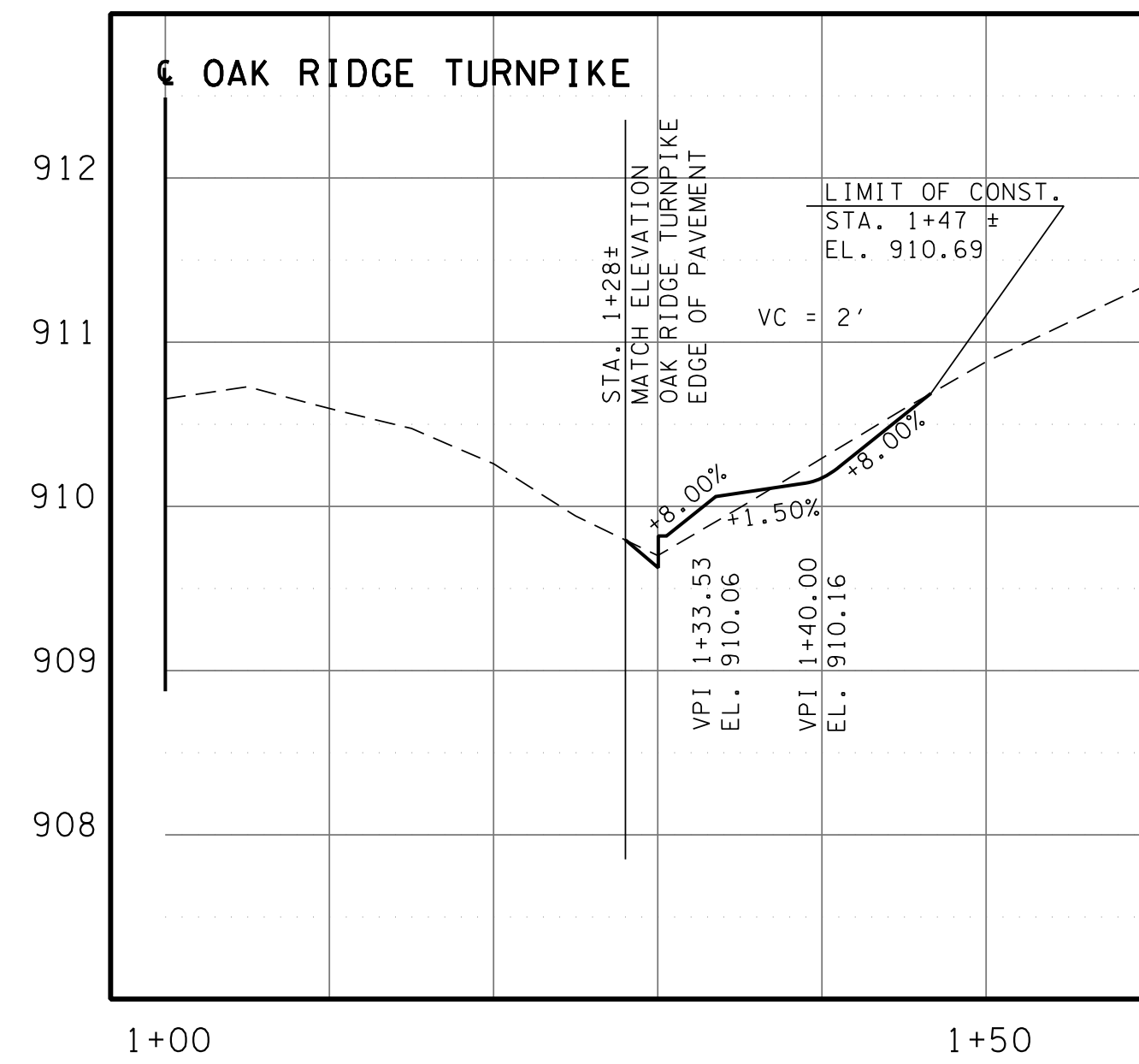
OAK RIDGE TURNPIKE STA. 103+60.00 =
TULANE AVENUE STA. 61+70.00
N 616542.6726
E 2484015.9341



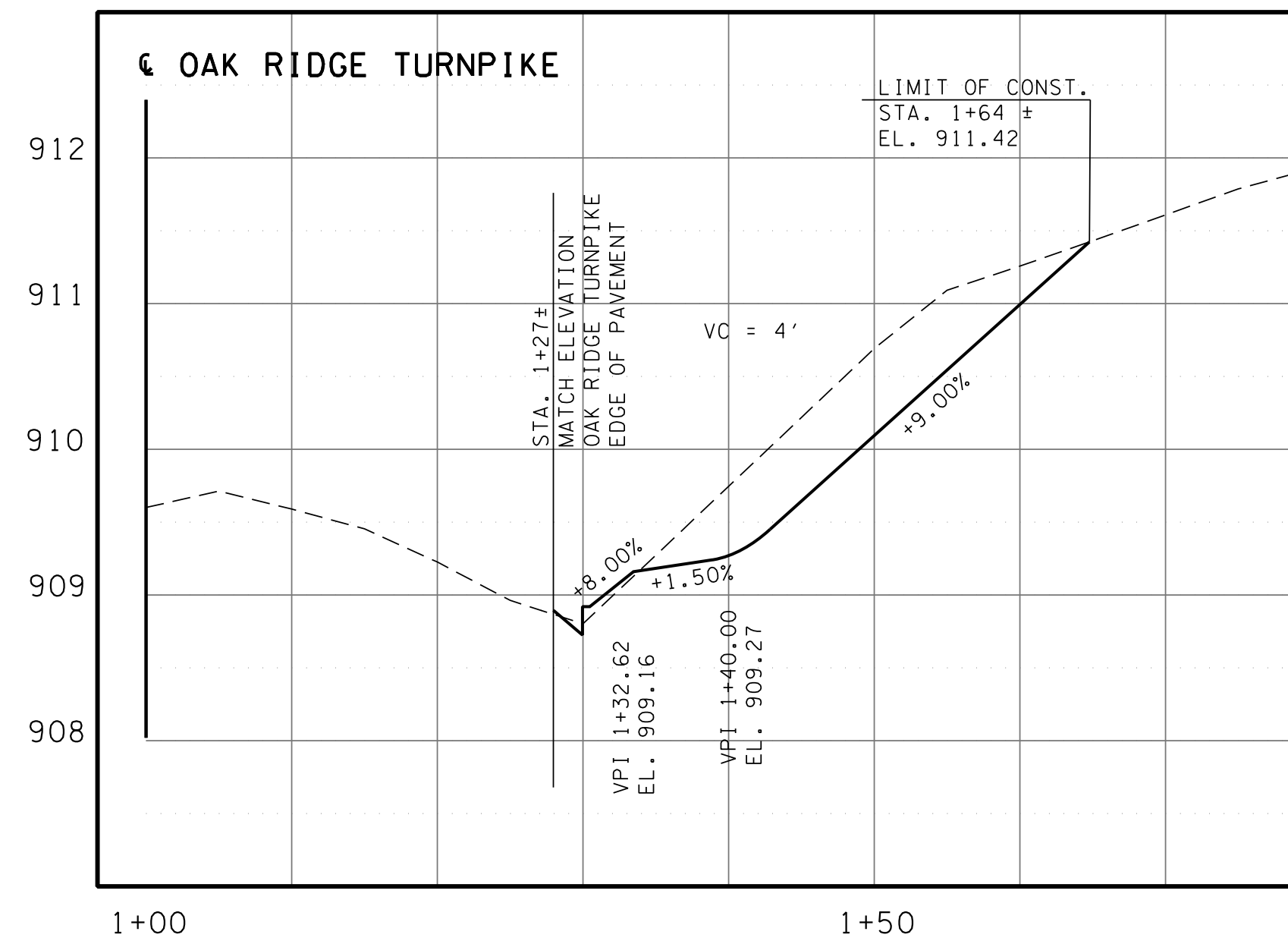
60

STA. 58+80.00
N 616262.8742
E 2484092.1761

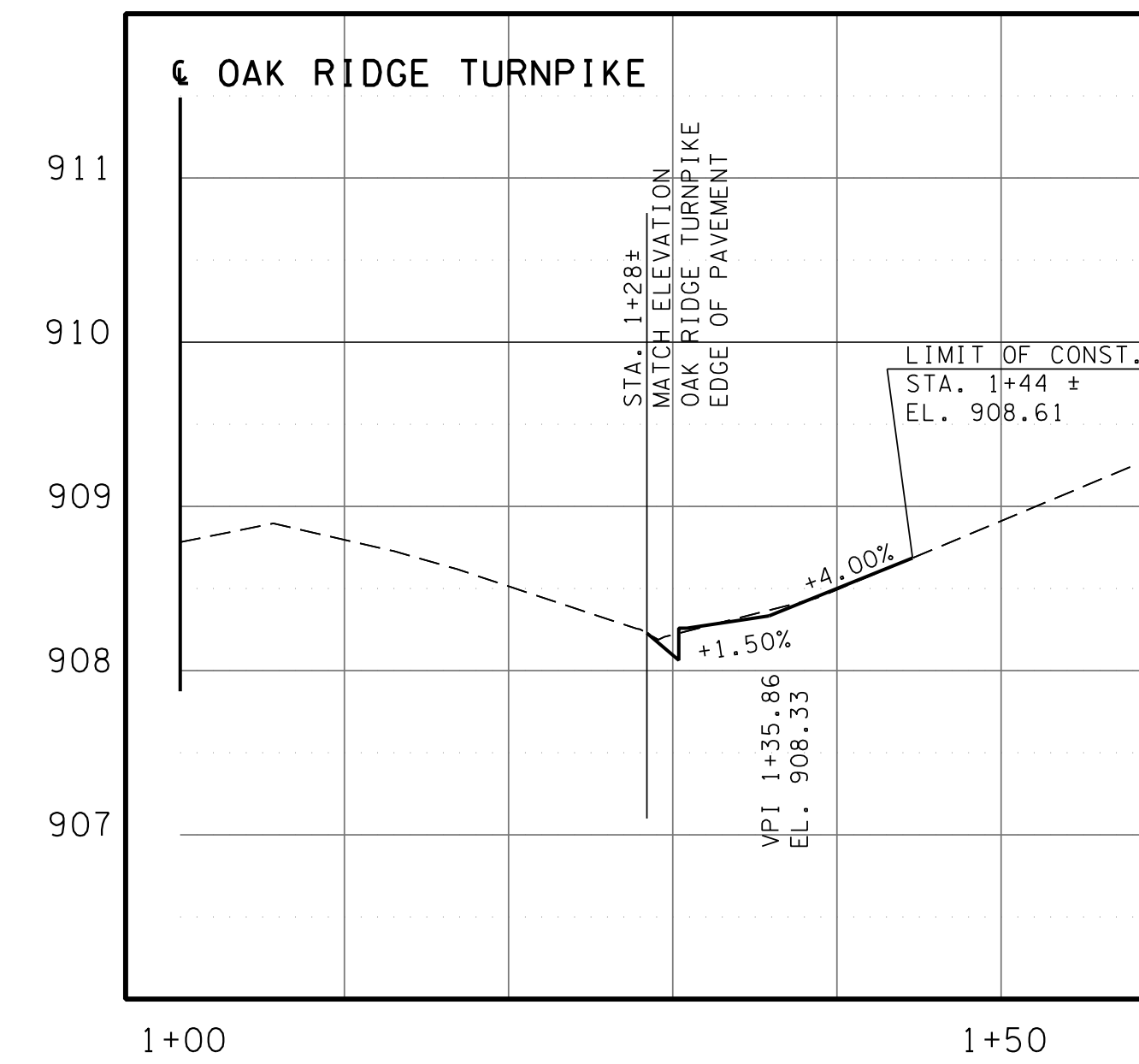
FLAGGED TRUNCATED DOME SURFACE IN SW CORNER		04-05-18
REVISIONS	DATE	
 CANNON & CANNON INC CONSULTING ENGINEERS · FIELD SURVEYORS TEL 865.670.8535 8550 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919		
CLIENT: CITY OF OAK RIDGE		
PROJECT: OAK RIDGE TURNPIKE INTERSECTION PEDESTRIAN SAFETY IMPROVEMENTS		
PROPOSED LAYOUT OAK RIDGE TURNPIKE AT TULANE AVENUE		
CCI PROJECT NO.	00368-0027	
DATE	07-26-17	
P.M.	BJH	
DRAWN	TSN	
O.C.	RJB	
4A		



STA. 200+40.00 RT.
20' BUS. ENT.
SCALE: 1" = 10' HORZ.
1" = 1' VERT.

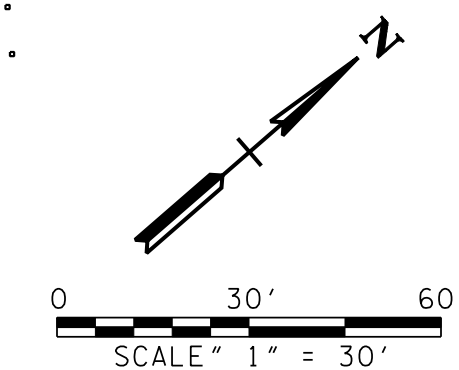
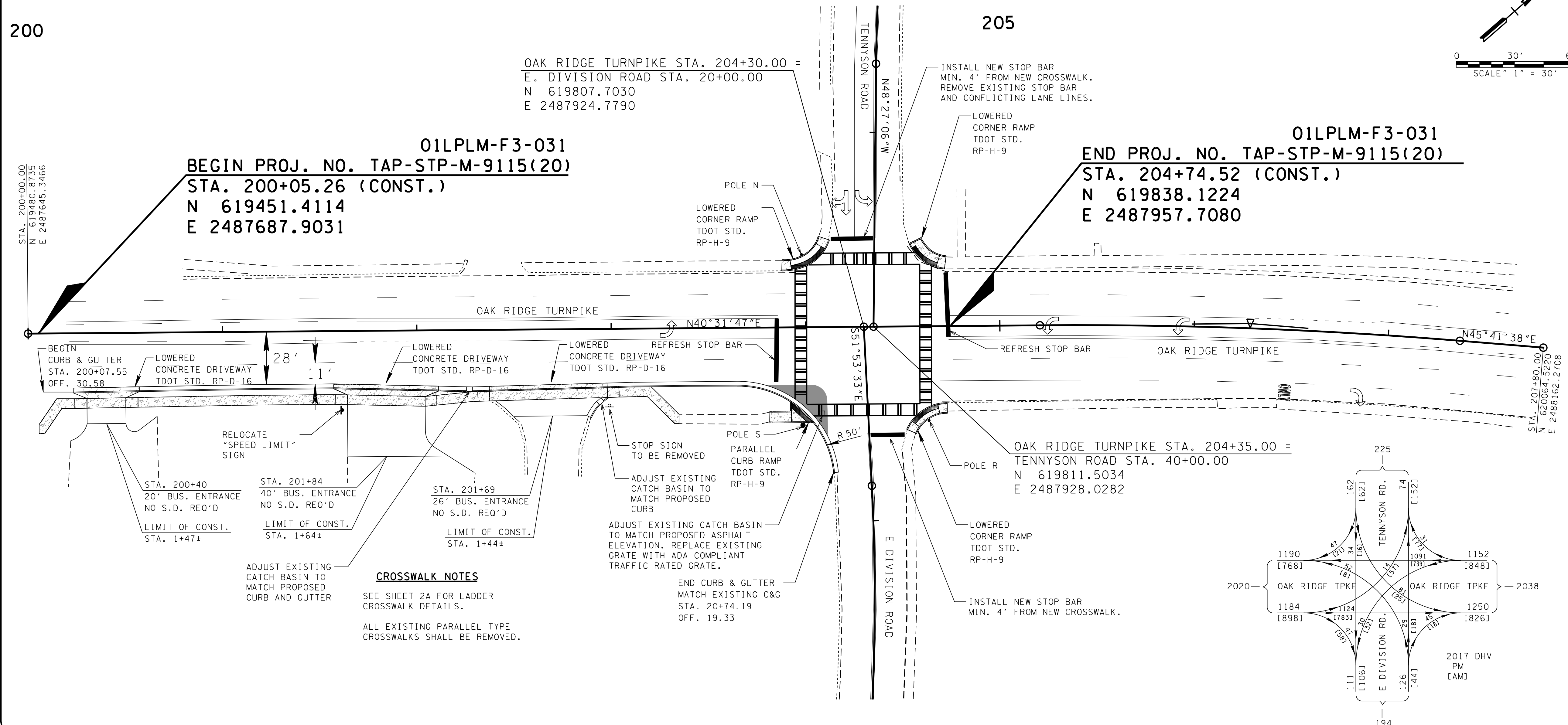


STA. 201+84.00 RT.
40' BUS. ENT.
SCALE: 1" = 10' HORZ.
1" = 1' VERT.



STA. 201+69.46 RT.
26' BUS. ENT.
SCALE: 1" = 10' HORZ.
1" = 1' VERT.

200



PROPOSED LEGEND

- FULL DEPTH ASPHALT
- CONCRETE SIDEWALK
- TRUNCATED DOME SURFACE
- STOP BAR
- YIELD BAR
- 6' WIDE CUSTOM LADDER CROSSWALK
- 6' WIDE PARALLEL CROSSWALK
- SIGN
- DETACHED CURB
- COMBINED CURB AND GUTTER
- BASELINE W/ 100 FT TICKS
- SIGNAL STRAIN POLE
- PEDESTRIAN PEDESTAL POLE
- PEDESTRIAN PUSHBUTTON POST

01LPLM-F3-031
BEGIN PROJ. NO. TAP-STP-M-9115(20)
STA. 200+05.26 (CONST.)
N 619451.4114
E 2487687.9031

01LPLM-F3-031
END PROJ. NO. TAP-STP-M-9115(20)
STA. 204+74.52 (CONST.)
N 619838.1224
E 2487957.7080

FLAGGED TO ADJUST EXISTING CATCH BASINS		04-05-18
REVISIONS		DATE
CANNON & CANNON INC CONSULTING ENGINEERS · FIELD SURVEYORS		
TEL 865.670.8535 8550 Kingston Pike WWW.CANNON-CANNON.COM Knoxville, TN 37919		
CLIENT: CITY OF OAK RIDGE		
PROJECT: OAK RIDGE TURNPIKE INTERSECTION PEDESTRIAN SAFETY IMPROVEMENTS		
PROPOSED LAYOUT OAK RIDGE TURNPIKE AT EAST DIVISION ROAD/TENNYSON ROAD		
	CCI PROJECT NO.	00368-0027
	DATE	07-26-17
	P.M.	BJH
	DRAWN	TSN
	O.C.	RJB
5A		