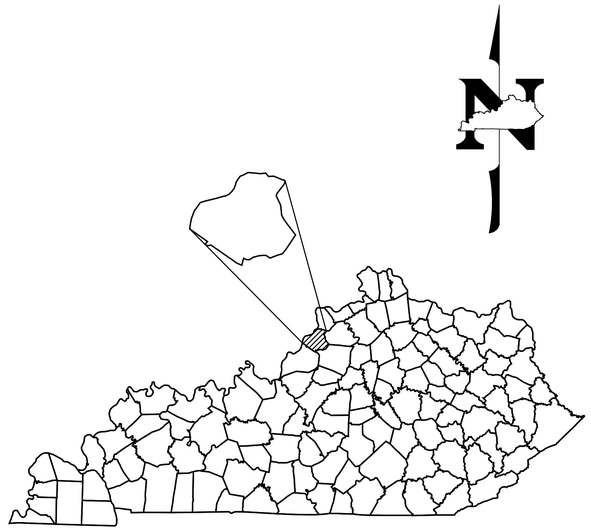
COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R1

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

OLDHAM COUNTY
PARK AND RIDE AT APPLE PATCH

THESE PLANS ARE FOR GRADE, DRAIN, AND SURFACE
CM 3001 407/421



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2-R2A	TYPICAL SECTIONS
R2B-R2D	SUMMARY OF QUANTITIES
R2E	SPECIAL & GENERAL NOTES
R3-R11A	PLAN AND PROFILE SHEETS
R12	RIGHT OF WAY SUMMARY SHEET
R13	RIGHT OF WAY STRIP MAP
R14-R21	DETAIL SHEETS
R22	TRAFFIC CONTROL SHEETS
R23-R26	EROSION CONTROL SHEETS
R27-R28	COORDINATE CONTROL SHEETS
R29-R31	GEOTECHNICAL AND SOIL PROFILE SHEETS
R32-R35	PIPE DRAINAGE SHEETS
X1-X21	CROSS SECTION SHEETS
X22-X23	ENTRANCE SECTIONS SHEETS
U1-U4	UTILIY SHEETS
L1-L2	LANDSCAPING SHEETS

SHEETS NOT INCLUDED IN TOTAL SHEETS (19)
R2A, R2B, R2C, R2D, R2E, R4A, R5A, R7A, R8A, R10A, R11A, R18A, R18B, R19A, R19B, R20A, R20B, R21A, R21B

STANDARD DRAWINGS

NUMBER

RDB-001-12	RDB-410-06	RDI-040-01	RDX-225-01
RDB-003-08	RDB-420-05	RDI-045-02	RDX-230-01
RDB-011-08	RDD-040-05	RDM-001-07	RGS-001-07
RDB-012-10	RDH-020-03	RDM-010-06	RGX-001-06
RDB-020-05	RDH-110-02	RDM-011-05	RGX-005-06
RDB-100-05	RDH-210-03	RDM-012-03	RGX-040-03
RDB-101-05	RDH-310-04	RDM-013-04	RPM-100-10
RDB-105-06	RDI-001-10	RDM-055	RPM-110-07
RDB-106-05	RDI-002-05	RDM-100-03	RPM-170-09
RDB-270-09	RDI-020-09	RDM-105-03	RPX-100-03
RDB-271-05	RDI-021-01	RDX-005-03	TTC-100-04
RDB-272-07	RDI-025-05	RDX-160-06	TTC-135-02
RDB-273-06	RDI-026-01	RDX-210-03	TTD-120-02
RDB-400-05	RDI-035-02	RDX-220-05	TTS-100-02

TOTAL STANDARD DRAWINGS = 56

SEPIAS

NUMBER	DESCRIPTION
001	TREATMENT OF SINKHOLES

TOTAL SEPIA = 1

BEGIN PROJECT AND CONSTRUCTION
APPLE PATCH PLACE STA. 9+58

END PROJECT AND CONSTRUCTION
APPLE PATCH PLACE STA. 20+57

NOT TO SCALE

LAYOUT MAP

THESE PLANS ARE FOR GRADE, DRAIN, AND SURFACE

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

THIS PROJECT IS OFF THE NH SYSTEM

DESIGN CRITERIA

CLASS OF HIGHWAY	N/A
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	25 MPH
REQUIRED NPSD	N/A
REQUIRED PSD	N/A
LEVEL OF SERVICE	N/A
ADT PRESENT ( )	N/A
ADT FUTURE ( )	N/A
DHV	N/A
D %	N/A
T %	N/A

GEOGRAPHIC COORDINATES

LATITUDE 38 DEGREES 21 MINUTES 08 SECONDS NORTH
LONGITUDE 85 DEGREES 29 MINUTES 40 SECONDS WEST

DESIGNED

% RESTRICTED SD _____
LEVEL OF SERVICE _____
MAX. DISTANCE W/O PASSING _____

APPLE PATCH PLACE

LENGTH 1099 LIN. FT. 0.208 MILES
ADDED / DEDUCTED — FOR EQUALITIES _____ LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. _____ LIN. FT.
BRIDGES _____ LIN. FT.

PARK AND RIDE

LENGTH 774 LIN. FT. 0.147 MILES
ADDED / DEDUCTED — FOR EQUALITIES _____ LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. _____ LIN. FT.
BRIDGES _____ LIN. FT.

LENGTH _____ LIN. FT. _____ MILES
ADDED / DEDUCTED — FOR EQUALITIES _____ LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. _____ LIN. FT.
BRIDGES _____ LIN. FT.

LENGTH _____ LIN. FT. _____ MILES
ADDED / DEDUCTED — FOR EQUALITIES _____ LIN. FT.
NOT INCLUDED
RAILROAD CROSSINGS NO. _____ LIN. FT.
BRIDGES _____ LIN. FT.

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

OLDHAM

ITEM NO. 5-468.00
PROJECT NUMBER: CM 3001 407/421
LETTING DATE: _____

RECOMMENDED BY: _____ PROJECT MANAGER DATE: _____

PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER DATE: _____

DESIGNED, PREPARED AND SUBMITTED BY:

URS
500 WEST JEFFERSON STREET
SUITE 1600
LOUISVILLE, KY 40202

FILE NAME: R0010OLS.DGN
USER: terri.combs
DATE PLOTTED: January 18, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R2

TYPICAL SECTIONS PARK AND RIDE AT APPLE PATCH

NEW CONSTRUCTION:
GRADE, DRAIN & FLEXIBLE PAVEMENT
~ USING ~

APPLE PATCH PLACE

DGA BASE	4.00" DEPTH
CL 2 ASPHALT BASE 0.75D PG64-22	3.50" DEPTH
CL 2 ASPHALT BASE 0.75D PG64-22	3.25" DEPTH
CL 2 ASPHALT SURFACE 0.38D PG64-22	1.25" DEPTH

ROADBED PREPARATION

ASPHALT CURING SEAL 2.0 LB/SQ. YD.
SAND FOR BLOTTER 5.0 LB/SQ. YD.
8.00" LIME STABILIZED ROADBED
LIME (APPLY AT RATE OF 6% BY WEIGHT AT 100 LB/CUFT)

PARK AND RIDE

DGA BASE	4.00" DEPTH
CL 2 ASPHALT BASE 0.75D PG64-22	3.50" DEPTH
CL 2 ASPHALT BASE 0.75D PG64-22	3.25" DEPTH
CL 2 ASPHALT SURFACE 0.38D PG64-22	1.25" DEPTH

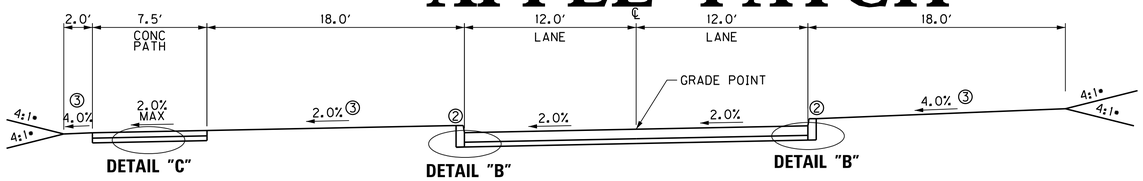
NOTES

- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE BERMS & SIDEWALK.

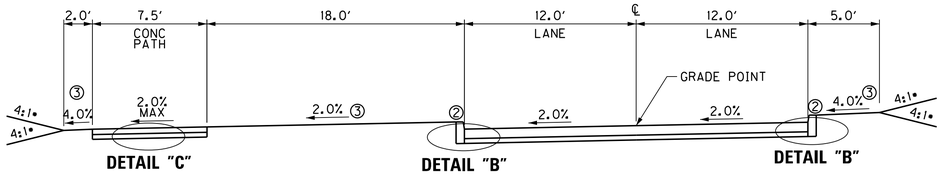
① STANDARD CURB AND GUTTER
② STANDARD HEADER CURB
③ SODDING

CONCRETE SIDEWALK AND PATH

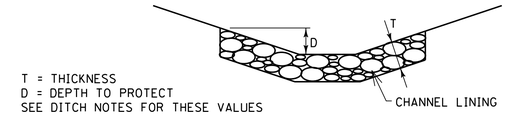
4" DGA
4" CONCRETE CLASS "A"



PARK AND RIDE
STA. 2+55 TO 3+00

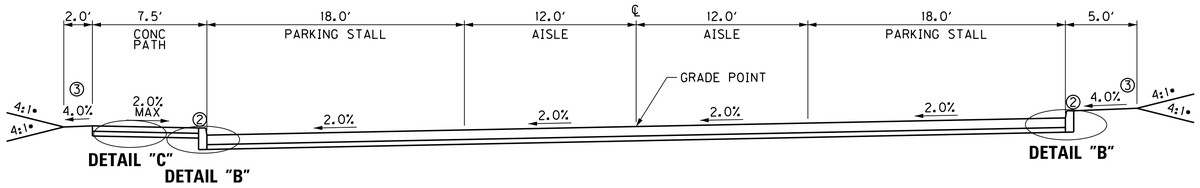


PARK AND RIDE
STA. 2+07 TO STA. 2+55

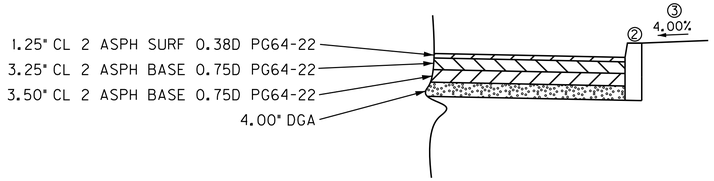


T = THICKNESS
D = DEPTH TO PROTECT
SEE DITCH NOTES FOR THESE VALUES

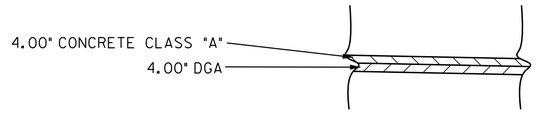
TYPICAL DITCH SECTION
EROSION CONTROL BLANKET /CHANNEL LINING



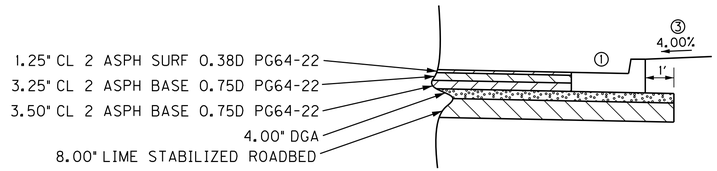
PARK AND RIDE
STA. 1+10 TO STA. 2+07
STA. 3+00.00 TO STA. 8+17



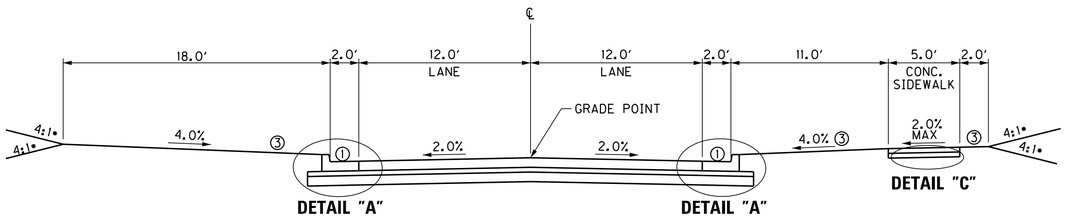
DETAIL "B"



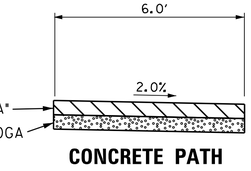
DETAIL "C"



DETAIL "A"



APPLE PATCH PLACE
STA. 9+58 TO STA. 20+57



CONCRETE PATH

NOT TO SCALE

PARK AND RIDE AT
APPLE PATCH
TYPICAL SECTIONS

FILE NAME: R00200ATS.DGN
USER: terri.combs
DATE PLOTTED: January 8, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R2A

TYPICAL SECTIONS
DRIVE 1
ACCESS DRIVE

NEW CONSTRUCTION:
GRADE, DRAIN & FLEXIBLE PAVEMENT
~ USING ~

DRIVE 1 & ACCESS DRIVE

DGA BASE	4.00" DEPTH
CL 2 ASPHALT BASE 0.75D PG64-22	3.50" DEPTH
CL 2 ASPHALT BASE 0.75D PG64-22	3.25" DEPTH
CL 2 ASPHALT SURFACE 0.38D PG64-22	1.25" DEPTH

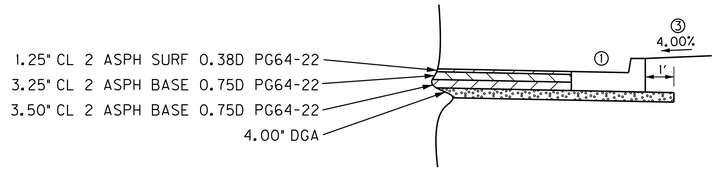
NOTES

- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE BERMS & SIDEWALK.

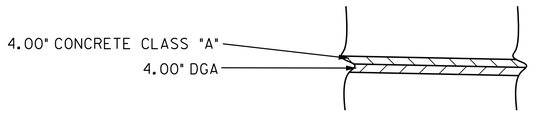
① STANDARD CURB AND GUTTER
② STANDARD HEADER CURB
③ SODDING

CONCRETE SIDEWALK

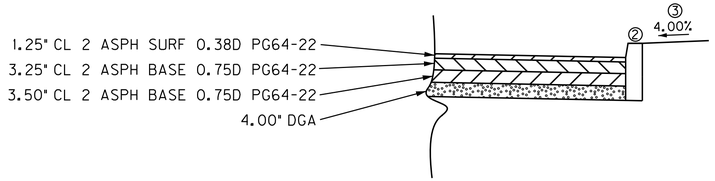
4" DGA
4" CONCRETE CLASS "A"



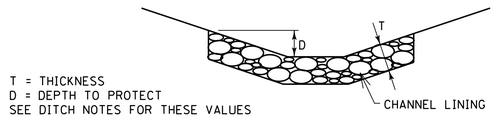
DETAIL "A"



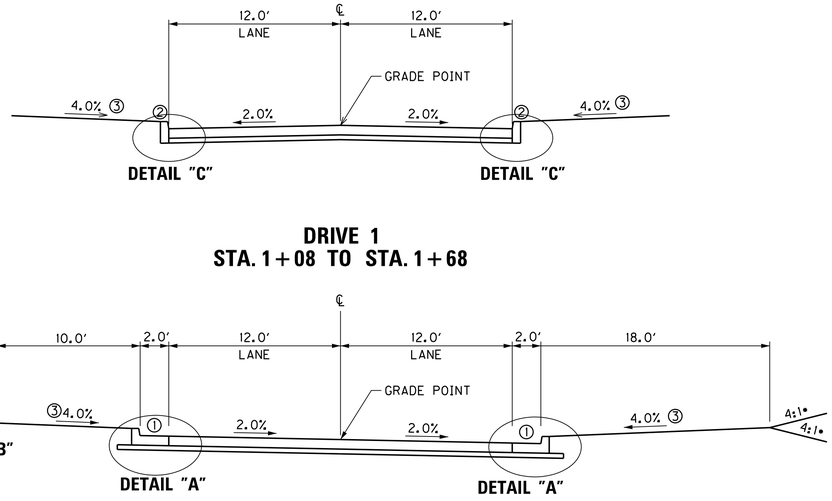
DETAIL "B"



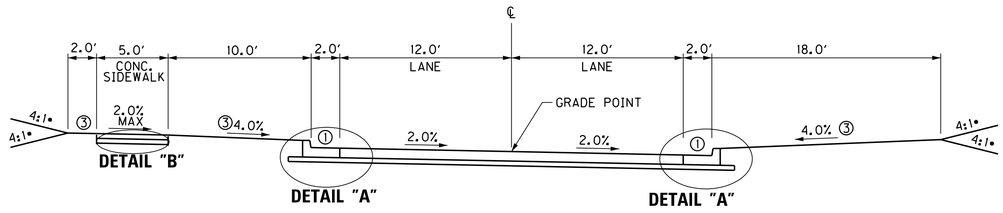
DETAIL "C"



TYPICAL DITCH SECTION
EROSION CONTROL BLANKET /CHANNEL LINING



DRIVE 1
STA. 1+08 TO STA. 1+68



ACCESS DRIVE
STA. 4+00 TO STA. 4+86

NOT TO SCALE

DRIVE 1 & ACCESS DRIVE
TYPICAL SECTIONS

FILE NAME: R002OOATS.DGN
USER: terri.combs
DATE PLOTTED: January 8, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R2B

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT				PROJECT TOTAL
1001	PERFORATED PIPE-6 INCH	LF				63
1011	NON-PERFORATED PIPE-6 INCH	LF				8
1810	STANDARD CURB AND GUTTER	LF				2093
1875	STANDARD HEADER CURB	LF				1957
1904	REMOVE CURB	LF				62
2014	BARRICADE-TYPE III	EACH				4
2091	REMOVE PAVEMENT	SOYD				226
2200	ROADWAY EXCAVATION	CUYD				7894
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH				2
2432	WITNESS POST	EACH				3
2471	FILL AND CAP SINKHOLE	EACH				1
2483	CHANNEL LINING CLASS II	TON				102
2545	CLEARING AND GRUBBING (3)	LS				1
2562	TEMPORARY SIGNS	SOFT				80
2569	DEMOBILIZATION	LS				1
2625	REMOVE HEADWALL	EACH				1
2650	MAINTAIN & CONTROL TRAFFIC (4)	LS				1
2671	PORTABLE CHANGEABLE MESSAGE SIGN (5)	EACH				3
2673	PRECAST VEHICLE STOP	LF				35
2676	MOBILIZATION FOR MILL & TEXT	LS				1
2701	TEMPORARY SILT FENCE	LF				3500
2703	SILT TRAP TYPE A	EACH				3
2704	SILT TRAP TYPE B	EACH				2
2705	SILT TRAP TYPE C	EACH				28
2706	CLEAN SILT TRAP TYPE A	EACH				6
2707	CLEAN SILT TRAP TYPE B	EACH				4
2708	CLEAN SILT TRAP TYPE C	EACH				56
2720	SIDEWALK-4 IN CONCRETE (6)	SQYD				1544
2726	STAKING	LS				1
4795	CONDUIT-2 IN	LF				1369
4810	ELECTRICAL JUNCTION BOX	EACH				9
4820	TRENCHING AND BACKFILLING	LF				60
5950	EROSION CONTROL BLANKET	SQYD				425
5963	INITIAL FERTILIZER	TON				1
5964	20-10-10 FERTILIZER	TON				13
5985	SEEDING AND PROTECTION	SQYD				14686
5990	SODDING	SQYD				9111
5992	AGRICULTURAL LIMESTONE	TON				15
6406	SBM ALUM SHEET SIGN .080 IN	SQFT				145.25
6411	STEEL POST TYPE 2	LF				451
6514	PAVE STRIPING-PERM PAINT-4 IN	LF				3860
6565	PAVE MARKING-THERMO X-WALK-24 IN	LF				204
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF				102
6570	PAVE MARKING-PAINT CROSS-HATCH	SQFT				153
6575	PAVE MARKING-THERMO COMB ARROW	EACH				4
24540	R/W MONUMENT TYPE 3	EACH				36
24663ED	WITNESS R/W MONUMENT TYPE 4	EACH				36
10020NS	FUEL ADJUSTMENT	DOLL				5885
10030NS	ASPHALT ADJUSTMENT	DOLL				13805
20206EC	PAVE MARK HANDICAP SYMBOL	EACH				5
20550ND	SAWCUT PAVEMENT	LF				205
23158ES505	DETECTABLE WARNINGS	SQFT				110
	PAVILION AND CONC. PAD (7)	LS				1
	BIKE RACK (7)	LS				1
	BENCH (7)	EACH				5
	TRASH RECEPTACALE (7)	EACH				2
	MATERIALS TESTING	LS				1
	BUS SHELTER AND CONC. PAD (7)	LS				1

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	APPLE PATCH PLACE	PARK AND RIDE	DRIVE 1	ACCESS DRIVE	(8) CHAPEL PARKING LOT	TOTAL PROJECT
1	DENSE GRADED AGGREGATE BASE (1)(2)	TON	923	968	64	86		2396
13	LIME STABILIZED ROADBED	SQ YD	4013					4013
14	LIME	TON	80					80
221	CL 2 ASPH BASE 0.75D PG64-22	TON	1166	1564	104	112		2646
301	CL 2 ASPH SURF 0.38D PG64-22	TON	216	290	19	19	62	606
358	ASPHALT CURING SEAL	TON	4					4
2677	ASPH MILLING & TEXTURING	TON	14				45	59
2702	SAND FOR BLOTTER	TON	10					10

PAVING AREAS

ITEM	APPLE PATCH PLACE	PARK AND RIDE	DIRVE 1	ACCESS DRIVE	(8) CHAPEL PARKING LOT	PROJECT TOTAL
	SQUARE YARDS					
DENSE GRADED AGGREGATE BASE	4013	4209	277	372		8871
CL 2 ASPH BASE 0.75D PG64-22	6278	8418	554	596		15846
CL 2 ASPH SURF 0.38D PG64-22	3131	4209	277	296	892	8805
LIME STABILIZED ROADBED	4013					4013
ASPH MILLING & TEXTURING	197				892	1089

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

(1) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.

(2) INCLUDES 355 TONS FOR SIDEWALK

(3) CLEARING & GRUBBING IS APPROXIMATELY 3.1 ACRES

(4) INCLUDES ALL NECESSARY ITEMS TO MAINTAIN & CONTROL TRAFFIC

(5) FOR MAINTAINING AND CONTROLLING TRAFFIC

(6) INCLUDES 71 SQYD FOR SIDEWALK RAMPS

(7) THESE ITEMS WILL BE APPROVED BY THE COUNTY ENGINEER BEFORE INSTALLATION

(8) THIS QUANTITY IS FOR ASPHALT RESURFACING OF THE CHAPEL PARKING LOT AND THE CONNECTION TO APPLE PATCH PLACE

EARTHWORK CALCULATION NOTE:

ESTIMATE FOR EARTHWORK CALCULATIONS ARE FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.

EARTHWORK TOTALS

7894 CUYD COMMON
7894 CUYD TOTAL EXCAVATION

6635 CUYD EMBANKMENT
6635 CUYD TOTAL EMBANKMENT

PARK AND RIDE
AT APPLE PATCH PLACE
GENERAL AND PAVING SUMMARY

MicroStation v8.11.7.443
E-SHEET NAME:
USER: ****
DATE PLOTTED: November 8, 2018
FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\O\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\GENTRAC

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R2C

SHEET NO.	STATIONS	SKEW	ABRASION LEVEL	DESIGN Ph	COVER HEIGHT	STORM SEWER PIPE-12 IN	STORM SEWER PIPE-15 IN	STORM SEWER PIPE-21 IN	STORM SEWER PIPE-24 IN	STORM SEWER PIPE-30 IN	PIPE CULVERT HEADWALL 12 IN	PIPE CULVERT HEADWALL 15 IN	PIPE CLUVERT HEADWALL 21 IN	PIPE CULVERT HEADWALL 30 IN	SLOPED BOX OUTLET TYPE 1-15IN	S & F BOX INLET-OUTLET-24 IN	CURB BOX INLET TYPE A	CURB BOX INLET TYPE F	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE II	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 15	MANHOLE TYPE A	MANHOLE TYPE C	JUNCTION BOX TYPE B	FAB GEOTEXTILE TY IV PIPE (1)	PIPELINE INSPECTION	REMARKS
	ITEM CODE					520	521	523	524	526	1200	1202	1206	1210	1432	1451	1456	1487	1496	1544	1550	1580	1756	1767	23952EC	2600	24814EC	
	UNIT TO BID					LIN FT					EACH										LF	EACH				SQYD	LIN FT	
	APPLE PATCH PLACE																											
R3, R4A	43.5' RT 11+11 TO 43.5' 11+15	LONG.	HA	M	0.8	4																						
R3	43.5' RT 11+15																								1			JUNCTION BOX (NO.2 H=1.94')
R3, R4A	43.5' RT 11+15 TO 43.5' 11+98	LONG.	HA	M	1.1		83																			111	83	
R3, R4A	43.5' RT 11+98											1																
R6,R31	57.25' LT 13+06.50													1														
R6,R31	57.25' LT 13+06.5 TO 43' 13+09	8° SKEW LT	HA	M	1.1					16																		
R6, R7,R31	43' LT 13+09																							1		31	16	MANHOLE TY C (Z=7.04')
R6, R7,R31	43' LT 13+09 TO 15.67' 13+36	45° SKEW LT	HA	M	3.4					36																69	36	
R6, R7,R31	15.67' LT 13+36																1											CBI TY A (SIZE 25-2, H=5.82')
R6, R7	15.67' LT 13+36 TO 15.67' 14+25	LONG.					86																			115	86	
R6, R7	15.67' LT 14+25																1											CBI TY A (SIZE 2-1, H=4.60')
R6, R7, R31	15.7' LT 13+36 TO 15.7' RT13+83	57° SKEW LT	HA	M	1.2				51																	88	51	
R6, R7, R31	15.67' RT 13+83																1											CBI TY A (SIZE 14-6, H=4.32')
R6, R7, R31	68' RT 13+63 TO 54' RT 13+68	20.6° SKEW LT	HA	M	1.1	14																				15	14	
R6, R31	54' RT 13+68 TO 13+83	20.2° SKEW LT	HA	M	3.2		38																			48	38	
R6, R31	68' RT 13+63										1																	
R6, R31	54' RT 13+68																		1									DBI TY 3 H=2.80'
R6, R7A	15.7' RT 13+83 TO 19.7' RT 14+55	LONG.							66																	114	66	
R6, R7A	19.7' RT 14+54.69																						1					MANHOLE TY A (H=4.95')
R6, R7A	19.7' RT 14+55 TO 33' RT 15+05	LONG.					50																			67	50	
R6,R7A	33' RT 15+05																	1										CBI TY F (H=4.95')
R6, R7A	33' RT 15+05 TO 33' RT 15+28.5	LONG.					22																			30	22	
R6, R7A	33' RT 15+28.50																	1										CBI TY F (H=4.25')
R9, R31	61' RT 16+28 TO 38' RT 17+22.5	LONG.					93																			124	93	
R9, R31	38' RT 17+22 TO 15.67' RT 17+20	5° SKEW LT	HA	M	4.2			20																		32	20	
R9,R31	15.67' RT TO 51.25' LT 17+20	0°	HA	M	2.8			64																		110	64	
R9, R10	15.67' RT & LT 17+20																2											2-CBI TY A (SIZE 8-2, H=5.76' & H=5.61')
R9,R31	51.25' LT 17+20												1															
R9, R10A	37.75' RT 17+22.50																						1					MANHOLE TY A (H=6.90')
R9, R31	37.7' RT17+22 TO 37' RT 17+76	LONG.					60																			80	60	
R9, 10A	37' RT 17+76																1											CBI TY A (SIZE 2-6, H=3.96')
R9, R10A	15.67' RT TO 15.67' LT 19+77	0°	HA	M	1.8		30																			40	30	
R9, R10, R10A	15.67' RT & LT 19+77																2											2-CBI TY A (SIZE 2-6, H=4.29' & H=4.13')
R9, R32	15.7' LT 19+77 TO 20.5' LT 20+24	LONG.					42																			56	42	
R9, R32	85.50' LT 20+19.60																						1					MANHOLE TY A (H=3.39')
R9, R10	20.50' LT 20+24.50																						1					MANHOLE TY A (H=5.67')
R9, R32	92.60' LT 20+28.50														1													
R9, R10A	62' RT 20+40.70																		1									DBI TY 3 H=4.43'
R9, R32	86' LT 20+20 TO 93' LT 20+29	40.8° SKEW RT	HA	M	0.9		9																			12	9	
R9, R32	86' LT 20+20 TO 21' LT 20+25	4° SKEW LT	HA	M	2.1		62																			83	62	
R9, R32	21' LT 20+25 TO 62' RT 20+41	11° SKEW LT	HA	M	2.4		80																			107	80	
	TOTAL SHEET					18	655	84	117	52	1	1	1	1	1		8	2	2				4	1	1	1332	922	

NOTES

(1) FOR WRAPPING PIPE TRENCH BACKFILL

PARK AND RIDE
AT APPLE PATCH PLACE
PIPE SUMMARY

FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\OLDHAM_COUNTY\5009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT
USER: ****
DATE PLOTTED: April 24, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R2D

SHEET NO.	STATIONS	SKEW	ABRASION LEVEL	DESIGN Ph	COVER HEIGHT	STORM SEWER PIPE-12 IN	STORM SEWER PIPE-15 IN	STORM SEWER PIPE-21 IN	STORM SEWER PIPE-24 IN	STORM SEWER PIPE-30 IN	PIPE CULVERT HEADWALL 12 IN	PIPE CULVERT HEADWALL 15 IN	PIPE CLUVERT HEADWALL 21 IN	PIPE CULVERT HEADWALL 30 IN	SLOPED BOX OUTLET TYPE 1-15IN	S & F BOX INLET-OUTLET-24 IN	CURB BOX INLET TYPE A	CURB BOX INLET TYPE F	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 15	MANHOLE TYPE A	MANHOLE TYPE C	JUNCTION BOX TYPE B	FAB GEOTEXTILE TY IV PIPE (1)	PIPELINE INSPECTION	REMARKS
	ITEM CODE					520	521	523	524	526	1200	1202	1206	1210	1432	1451	1456	1487	1496	1544	1550	1580	1756	1767	23952EC	2600	24814EC	
	UNIT TO BID					LIN FT					EACH										LIN FT	EACH				SQYD	LIN FT	
	PARK AND RIDE																											
R3, R5	28.50' LT 2+05.50																			1								DBI TY 11 H=6.87'
R3,R5	29' LT 2+05.50 TO 50' LT 3+05	LONG.	HA	M	2.8		56																			75	56	
R6, R8	50' LT 3+05																					1						DBI TY 15 H=4.19'
R6, R8A	41' RT 3+45																		1									DBI TY 3 H=4.36'
R6, R33	50' LT 3+05 TO 50' LT 3+64	LONG.					55																			74	55	
R6, R33	41' RT 3+45 TO LT 50' LT 3+64	11.4° SKEW RT	HA	M	2.6		90																			120	90	
R6, R33	50' LT 3+64 TO 67.25' 3+67	11.4° SKEW RT	HA	M	0.6		16																			22	16	
R6, R8	50' LT 3+64																						1					MANHOLE TY A H=6.48'
R6, R33	67.25' LT 3+67											1																
R6, R8	28.50' LT 3+79																			1								DBI TY 11 H=5.29'
R6, R33	50' LT 3+64 TO 28.5' LT 3+79	LONG.					27																			36	27	
R6, R8	28.50' LT 4+72																			1								DBI TY 11 H=5.60'
R6, R33	70.25' LT 4+72											1																
R6, R33	28.50' LT 4+72 TO 70.25' LT 4+72	0°					42																			56	42	
R6, R34	86' RT 4+91.35															1												
R6, R8	42' LT 5+52																						1					MANHOLE TY A H=8.14'
R6, R8	28.50' LT 5+64																			1								DBI TY 11 H=5.67'
R6, R8	28.50' LT 7+01																			1								DBI TY 11 H=5.03'
R6, R34	86' RT 4+91.35 TO 42' LT 5+51	24.5° SKEW RT	HA	M	1.8				141																	243	141	
R6, R34	42' LT 5+52 TO 110' LT 5+76	24.5° SKEW RT	HA	M	3.1				70																	121	70	
R6, R34	42' LT 5+52 TO 28.50' LT 5+64	LONG.					17																			23	17	
R9, R11	28.41'LT 8+12.94																			1								DBI TY 11 H=6.07'
R9, R11	AT CENTER 8+15																						1					MANHOLE TY A H=5.50'
R9, R11A	37' RT 8+24.36																		1									DBI TY 3 H=4.40'
R9, R11	AT CENTER 8+26																				24							DBI TY 12A H=VARIES
R9, R34	37' RT 8+24 TO 8+15	19.4° SKEW LT					38																			51	38	
R9, R34	8+15 TO 28.41' LT 8+13	3° SKEW LT					26																			35	26	
R9, R34	28.41' LT 8+13 TO	3° SKEW LT					17																			23	17	
R9, R11	8+15 TO 8+26	LONG.					9																			12	9	
	TOTAL SHEET						393		211			2				1		0	2	6	24	1	3	0	0	891	604	
	TOTAL PROJECT					18	1048	84	328	52	1	3	1	1	1	1	8	2	4	6	24	1	7	1	1	2223	1526	

NOTES

(1) FOR WRAPPING PIPE TRENCH BACKFILL

PARK AND RIDE
AT APPLE PATCH PLACE
PIPE SUMMARY

FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLANS\PIPE SUMMARY.DGN
USER: ****
DATE PLOTTED: April 24, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

MicroStation v8.11.7.443
E-SHEET NAME:
USER: URS Corporation
DATE PLOTTED: August 15, 2016
FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\OLDHAM_COUNTY\5009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\GENTRAC

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R2E

SPECIAL AND GENERAL NOTES

SPECIAL NOTES

1I) PORTABLE CHANGEABLE MESSAGE SIGNS

KENTUCKY ONE CALL

CALL 1-800-752-6007 #13450 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE KENTUCKY ONE CALL SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO KENTUCKY ONE CALL. ALL UTILITIES AND A CONTACT PERSON FOR EACH COMPANY CAN BE FOUND ON SHEET NO. R3 OF THE PLANS.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY AT (502) 564-3670.

NOTICE – CAUTION – CLASSIFICATION

SEE 204.03.01 OF THE CURRENT KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION: THE RIGHT IS RESERVED BY THE DEPARTMENT TO HAVE OTHER WORK PERFORMED BY OTHER CONTRACTORS AND BY ITS OWN FORCES AND TO PERMIT PUBLIC UTILITY COMPANIES AND OTHERS TO DO WORK DURING THE CONSTRUCTION OF, AND WITHIN THE LIMITS OF OR ADJACENT TO, THE PROJECT. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND COOPERATE WITH SUCH OTHER PARTIES SO THAT INTERFERENCE WITH SUCH OTHER WORK WILL BE REDUCED TO A MINIMUM. THE CONTRACTOR SHALL AGREE, AND HEREBY DOES AGREE, TO MAKE NO CLAIMS AGAINST THE DEPARTMENT FOR ADDITIONAL COMPENSATION DUE TO DELAYS OR OTHER CONDITIONS CREATED BY THE OPERATIONS OF SUCH OTHER PARTIES. SHOULD A DIFFERENCE OF OPINION ARISE AS TO THE RIGHTS OF THE CONTRACTOR AND OTHERS WORKING WITHIN THE LIMITS OF OR ADJACENT TO THE PROJECT, THE ENGINEER WILL DECIDE AS TO THE RESPECTIVE RIGHTS OF THE VARIOUS PARTIES INVOLVED IN ORDER TO ASSURE THE COMPLETION OF THE DEPARTMENT'S WORK IN GENERAL HARMONY AND IN A SATISFACTORY MANNER, AND HIS DECISION SHALL BE FINAL AND BINDING UPON THE CONTRACTOR.

CONSTRUCTION MATERIAL DISPOSAL

ALL CONCRETE PAVEMENT, ASPHALT MATERIAL, AND ANY OTHER MATERIAL THAT IS REQUIRED TO BE REMOVED SHALL BE DISPOSED OF OFF THE RIGHT-OF-WAY AT SITES ACQUIRED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE DEPARTMENT, PER SECTION 204.03.08 OF THE CURRENT EDITION OF THE KYTC STANDARD SPECIFICATIONS.

CONTROL OF ACCESS

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT.

SIDEWALK / MULTI USE PATH

SIDEWALK & MULTI USE PATH CROSS SLOPES WILL BE 1.5% (+/-0.5%)

LWC WATER TOWER

THE CONTRACTOR SHALL BE IN COORDINATION WITH THE LOUISVILLE WATER COMPNAY (LWC) PRIOR TO ANY CONSTRUCTION TAKING PLACE. THE CONTRACTOR WILL COORDINATE CONSTRUCTION WITH THE RELEASE OF WATER FROM THE WATER TOWER ADJACENT TO THE SITE. (LWC PERIODICALLY EMPTIES THE TOWER AND THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH LWC DURING CONSTRUCTION.)

NOTE

CONTRARY TO KYTC STANDARD DRAWING RBR-020-05 THE GUARDRAIL END TREATMENT ET-PLUS MANUFACTURED BY TRINITY INDUSTRIES WILL NOT BE PERMITTED AS AN OPTION FOR BID ITEM "GUARDRAIL END TREATMENT TYPE 1".

AMENITIES (SUCH AS BUT NOT LIMITED TO: PAVILION, BUS SHELTER, BENCHES, TRASH RECEPTICALS & BIKE RACKS)

SPECIFICATIONS AND/OR SHOP DRAWING FOR THESE ITEMS WILL BE APPROVED BY THE COUNTY ENGINEER BEFORE PURCHASE AND INSTALLATION

RIGHT OF WAY MONUMENTS

COORDINATE WITH ENGINEER BEFORE SETTING RIGHT OF WAY MONUMENTS. EXISTING MONUMENTATION MAY BE SALVAGED.

DEMOBILIZATION

SEE KYTC STANDARD SPECIFICATIONS FOR CLARIFICATION ON DEMOBILIZATION COSTS

LANDSCAPING

SEE LANDSCAPING PLAN IN THIS PLAN SET FOR LANDSCAPING DETAILS AND SPECIFIC QUANTITIES

MSD SEWER RELOCATION

SEE MSD RELOCATION PLANS IN THIS PLAN SET FOR USE IN BID AND FOR CONTRUCTION OF THE RELOCATION

PARK AND RIDE /TARC KIOSK

THE KIOSK FOR RIDER INFORMATION WILL BE INSTALLED BY TARC. OLDHAM COUNTY WILL PROVIDE INFORMATION TO TARC TO BE PLACED IN THE KIOSK.

SPECIAL AND GENERAL NOTES
PARK AND RIDE AT APPLE PATCH

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R3

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
EXIST. PROPERTY LINE
EXIST. RIGHT OF WAY & PROPERTY LINE
PROPOSED RIGHT OF WAY
RIGHT OF WAY MONUMENT
BENCH MARK
EXISTING R/W MARKER
RIGHT OF WAY MONUMENT EXISTING/PROPOSED
UTILITY TEST HOLE
EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)
TREE LINE
TREES
PIPE CULVERT
CULVERT
BRIDGE
BUILDINGS
GUARDRAIL

	EXISTING	PROPOSED
LIGHTING POLE		
POWER POLE		
JOINT POWER & TELEPHONE POLE		
TELEPHONE & TELEGRAPH POLE		
ANCHOR, POWER OR TELEPHONE		
STUB POWER		
STUB TELEPHONE		
WATER MAIN	WM	6" WM
GAS MAIN	GM	6" GM
TELEPHONE DUCT	T	T
ELECTRIC DUCT	E	E
DIRECT BURIAL TV CABLE	TV	TV
SANITARY SEWER (WITH MANHOLE)	SAN	SAN
STORM SEWER (WITH MANHOLE)	STORM	STORM
DIRECT BURIAL ELECTRIC CABLE	E	E
DIRECT BURIAL TELEPHONE CABLE	T	T
OVERHEAD WIRE		
TRAFFIC LIGHTS		
ELECTRIC MANHOLE	EMH	EMH
TELEPHONE MANHOLE	TMH	TMH

STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
BLUE LINE STREAM
INTERMITTENT STREAM OR DITCH
LAKES OR PONDS
REGULATED FLOODWAY
NORTH POINT

DETECTABLE WARNINGS
SIDEWALK RAMP

CONSTRUCT STANDARD CURB AND GUTTER
RT STA. 10+06 TO RT STA. 12+00 (204 LF) (APPLE PATCH PLACE)
LT STA. 10+12 TO LT STA. 12+00 (198 LF) (APPLE PATCH PLACE)

CONSTRUCT STANDARD HEADER CURB
LT STA. 0+92 TO LT STA. 2+60 (189 LF) (PARK AND RIDE)
RT STA. 0+98 TO RT STA. 2+33 (204 LF) (PARK AND RIDE)
RT STA. 2+45 TO RT STA. 2+60 (37 LF) (PARK AND RIDE)

CONSTRUCT SIDEWALK-4 IN CONC
RT STA. 10+09 TO RT STA. 12+00 (106 SQYD) (APPLE PATCH PLACE)
LT STA. 0+75 TO LT STA. 2+60 (124 SQ YD) (PARK AND RIDE)
LT STA. 0+98 TO LT STA. 1+05 (6 SQYD (PARK AND RIDE)
RT STA. 1+04 TO RT STA. 1+20 (15 SQYD) (PARK AND RIDE)
RT STA. 11+82 TO RT STA. 12+46 (131 SQYD) (APPLE PATCH PLACE)

CONSTRUCT SIDEWALK RAMP TYPE 1
RT STA. 10+17 (5 SQYD) (APPLE PATCH PLACE)
RT STA. 1+01 (4 SQYD) (PARK AND RIDE)
LT STA. 1+04 (4 SQYD) (PARK AND RIDE)

CONSTRUCT DETECTABLE WARNING
RT STA. 10+12 (10 SQFT) (APPLE PATCH PLACE)
RT STA. 1+02 (10 SQFT) (PARK AND RIDE)
LT STA. 1+04 (10 SQFT) (PARK AND RIDE)

11+43 35.00' REMOVE PAVEMENT
LT/RT STA. 10+06 TO LT/RT STA. 10+34 (106 SQYD) (APPLE PATCH PLACE)

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

DITCH CONSTRUCTION

STATION	LOCATION	SIZE-SHAPE	LINING			
			TYPE	QUANTITY	T	D
LT 1+90 - 2+60 (PARK)	CHANNEL	2' FB	ECB	65 SY	--	2.00'
RT 2+56 - 2+60 (PARK)	CHANNEL	2' FB	ECB	14 SY	--	2.00'

11+43 149.30' REMOVE HEADWALL
RT STA. 11+18 (1 EACH) (APPLE PATCH PLACE)

REMOVE CURB
LT/RT STA. 10+06 TO LT/RT STA. 10+35 (62 LF) (APPLE PATCH PLACE)

11+57.78 173.38' SODDING
LT/RT STA. 10+10 TO LT/RT STA. 12+00 (655 SQ YD) APPLE PATCH PLACE)
RT STA. 11+82 TO RT STA. 12+46 (488 SQ YD) (APPLE PATCH PLACE)
LT/RT STA. 1+00 TO LT/RT STA. 2+60 (561 SQ YD) (PARK AND RIDE)

SEEDING AND PROTECTION
RT STA. 11+82 TO RT STA. 12+46 (430 SQ YD) (APPLE PATCH PLACE)
LT/RT STA. 0+70 TO LT/RT STA. 2+60 (810 SQ YD) (PARK AND RIDE)
LT/RT STA. 10+10 TO LT/RT STA. 12+00 (1050 SQ YD) (APPLE PATCH PLACE)

SAWCUT PAVEMENT
LT/RT STA. 0+97 (33 LF) (PARK AND RIDE)
LT/RT STA. 10+06 (66 LF) (APPLE PATCH PLACE)

NOTE:
THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF UTILITIES OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

0' 20' 40' 80'

UTILITY CONTACTS

LG&E KU (ELECTRIC)
820 WEST BROADWAY
LOUISVILLE, KY 40202
LG&E EMERGENCY NUMBER (502) 589-1444
KU EMERGENCY NUMBER 1-800-331-7370
CONTACT: GREG GEISER
(502) 627-3708
Greg.Geiser@LGE-KU.com

LG&E (GAS)
820 WEST BROADWAY
LOUISVILLE, KY 40202
LG&E EMERGENCY NUMBER (502) 589-5511
CONTACT: GREG GEISER
(502) 627-3708
Greg.Geiser@LGE-KU.com

AT&T KY
1350 E. JOHN ROWAN BLVD.
BARDSTOWN, KY 40004
SCOTT ROCHE
(502) 348-4528
sr8832@att.com

OLDHAM COUNTY WATER DISTRICT
3711 W. HIGHWAY 146, P.O. BOX 51
BUCKNER, KY 40010
RUSS ROSE
(502) 222-1690
RussRose@insightbb.com

TIME WARNER CABLE
4701 COMMERCE CROSSINGS DR.
LOUISVILLE, KY 40229
DENO BARBOUR
CELL: (502) 664-7395
WORK: (502) 357-4376
Dwight.Barbour@TWCable.com

OLDHAM CO. ENVIRONMENTAL AUTHORITY
700 W. JEFFERSON ST.
LAGRANGE, KY 40031
FAX: (502) 225-9468
KEVIN GIBSON
OFFICE: (502) 225-9477
CELL: (502) 357-4376
Kevin.Gibson@VeoliaWaterNA.com

MILLING AND RESURFACE

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
OLDHAM

PROJECT NUMBERS: CM 3001 407/421

APPLE PATCH PLACE & PARK AND RIDE
PLAN SHEET
STA. 10+00 TO STA. 12+00

SCALE: 1"=20'

FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLANS\E-SHEET NAME: USER: **** DATE PLOTTED: April 24, 2018 MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R4

L = 100.00 FT
G1 = -0.50%
G2 = -5.00%
E = -0.56 FT
K = 22.22
HLSD = 289.81 FT

MILL & OVERLAY

PVI 10+10.00
Elev 755.69

PVC 10+58.89
Elev 755.45

PVI 11+08.89
Elev 755.20

PVT 11+58.89
Elev 752.70

-0.50%

-5.00%

WATER LINE
APPROX. ELEV.

SAN. SEWER
APPROX. ELEV.

BEGIN PROJECT & BEGIN CONSTRUCTION
APPLE PATCH PLACE STA. 9+58

	9+50	10+00	10+50	11+00	11+50	12+00
		755.7	756.2 755.50	754.9 754.86	753.6 753.13	749.6 750.64

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE LEFT OF THE CENTERLINE

APPLE PATCH PLACE
PROFILE
STA. 10+00 TO STA. 12+00

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: ****
DATE PLOTTED: January 18, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R4A

L = 100.00 FT
G1 = -0.50%
G2 = -5.00%
E = -0.56 FT
K = 22.22
HLSD = 289.81 FT

MILL & OVERLAY

EX CBI
STA. 10+15, 20' RT

PVI 10+10.00
Elev 755.69

PVC 10+58.89
Elev 755.45

-0.50%

TG 756.27

12" SS
So=1.84%

FL 753.58

WATER LINE
APPROX. ELEV.

EX CBI
STA. 10+75, 112' RT

TG 762.58

FL 759.91

CONSTRUCT 4' ~ 12" CPP

PVI 11+08.89
Elev 759.20

43.50' RT STA. 11+15.00
CONSTRUCT JCT BOX TY B(1) NO. 2 H=1.94'

TR 760.00

OE 758.06

OE 753.10

CONSTRUCT 88' ~ 15" SS
So=5.01%

SAN. SEWER
APPROX. ELEV.

PVT 11+58.89
Elev 752.10

-5.00%

43.50' RT STA. 11+98.00
CONSTRUCT PIPE CULVERT HEADWALL 15 IN

OE 748.95

BEGIN PROJECT & BEGIN CONSTRUCTION
APPLE PATCH PLACE STA. 9+58

DATUM: 774, 772, 770, 768, 766, 764, 762, 760, 758, 756, 754, 752, 750, 748, 746, 744, 742, 740, 738, 736

755.7
756.2 / 755.50
754.9 / 754.86
753.6 / 753.13
749.6 / 750.64

9+50 | 10+00 | 10+50 | 11+00 | 11+50 | 12+00

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE RIGHT OF THE CENTERLINE

APPLE PATCH PLACE
PROFILE
STA. 10+00 TO STA. 12+00

FILE NAME: 0:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: ****
DATE PLOTTED: January 18, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R5

BEGIN CONSTRUCTION
PARK & RIDE STA. 0+70

L = 50.00 FT
G1 = 2.12%
G2 = -4.00%
F = -0.38 FT
K = 8.16
HLSD = 201.20 FT

L = 50.00 FT
G1 = -4.00%
G2 = -5.00%
F = -0.06 FT
K = 50.00
HLSD = 1104.15 FT

PVI 1+05.84
Elev 765.26

PVT 1+25.84
Elev 764.26

PVC +85.00
Elev 761.93

PVI 2+10.00
Elev 760.93

PVT 2+35.00
Elev 759.68

HI 0+94.18
Elev 764.9

-4.00%

-5.00%

TG 760.36

TV LINE
APPROX. ELEV.

ELEC. LINE
APPROX. ELEV.

WATER LINE
APPROX. ELEV.

FL 754.16

So = 3.12%

BEGIN 2' FB DT
STA. 1+90, 73.4' LT (755.43)

2' FB DT
STA. 2+00, 73.4' LT (755.11)

28.50' LT STA. 2+05.50
CONSTRUCT DBI TYPE II (H=6.87')

CONSTRUCT 56' ± 15" PIPE

2' FB DT
STA. 2+60, 64.7' LT (753.24)

763.1
764.7
764.89
764.2
763.9
763.33
762.0
761.31
756.8
758.93

0+00 0+50 1+00 1+50 2+00 2+50

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE LEFT OF THE CENTERLINE

PARK AND RIDE
PROFILE
STA. 0+00 TO STA. 2+60

FILE NAME: D:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: ====
DATE PLOTTED: January 30, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R5A

BEGIN CONSTRUCTION
PARK & RIDE STA. 0+70

L = 50.00 FT
G1 = 2.12%
G2 = -4.00%
F = -0.38 FT
K = 8.16
HLSD = 201.20 FT

L = 50.00 FT
G1 = -4.00%
G2 = -5.00%
F = -0.06 FT
K = 50.00
HLSD = 1104.15 FT

PVI 1+05.84
Elev 765.26

PVT 1+26.84
Elev 764.26

PVC +85.00
Elev 761.93

VPI 2+10.00
Elev 760.93

PVT 2+35.00
Elev 759.68

BEGIN 2 FB DT
STA. 2+56, 46.1' RT (759.26)

HI 0+94.18
Elev 764.9

-4.00%

-5.00%

2' FB DT
STA. 2+60, 46.2' RT (758.75)

WATER LINE
APPROX. ELEV.

TV LINE
APPROX. ELEV.

ELEC. LINE
APPROX. ELEV.

WATER LINE
APPROX. ELEV.

763.1	764.2	764.7 / 764.89	763.9 / 763.33	762.0 / 761.31	756.8 / 758.93
0+00	0+50	1+00	1+50	2+00	2+50

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE RIGHT OF THE CENTERLINE

PARK AND RIDE
PROFILE
STA. 0+00 TO STA. 2+60

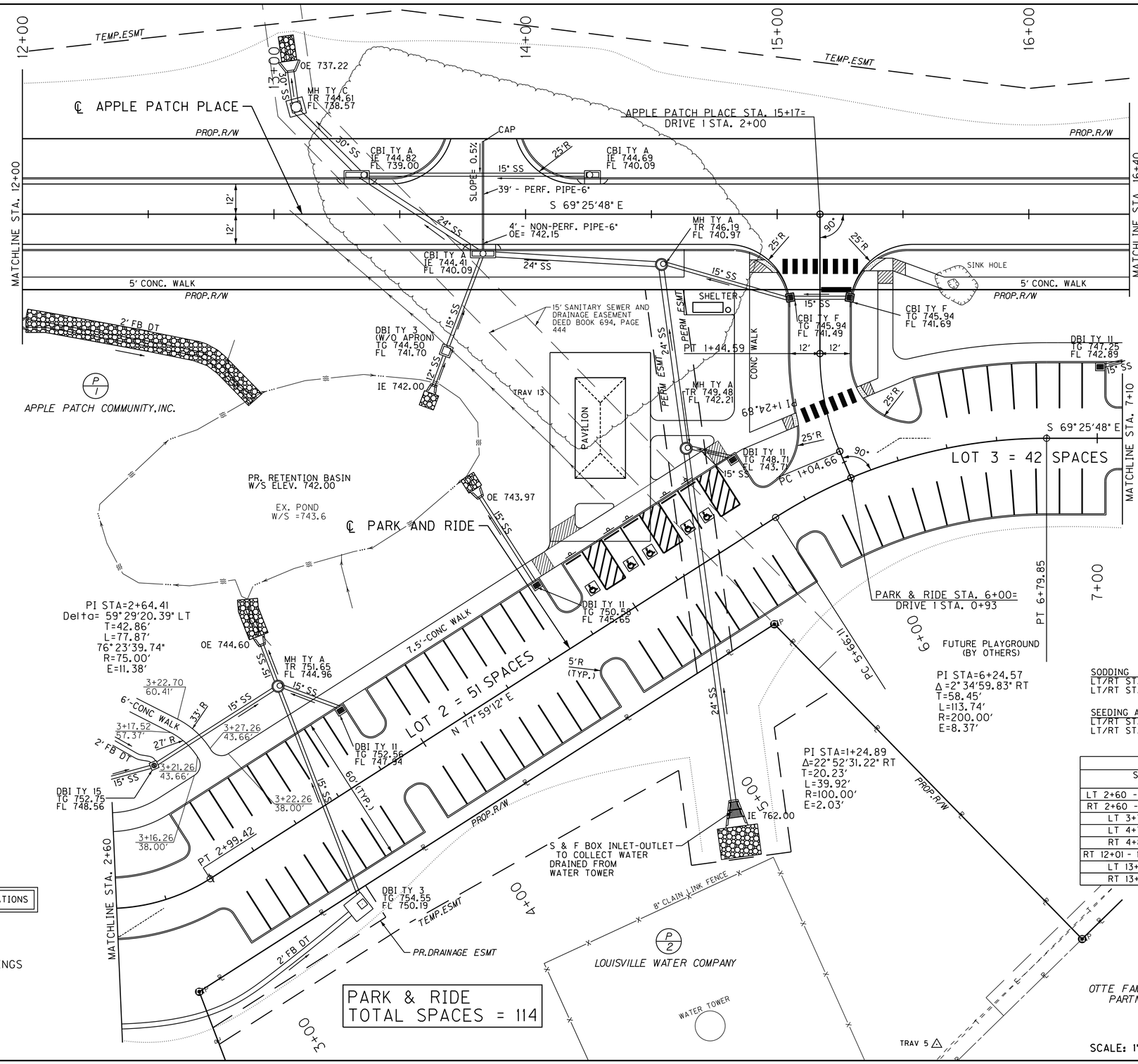
FILE NAME: G:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: ====
DATE PLOTTED: January 30, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R6



CONSTRUCT SIDEWALK RAMP TYPE 1
RT STA. 15+00 (3 SQYD) (APPLE PATCH PLACE)
RT STA. 15+43 (4 SQYD) (APPLE PATCH PLACE)
RT STA. 15+48 (3 SQYD) (APPLE PATCH PLACE)
LT STA. 4+78 (5 SQYD (PARK AND RIDE)
LT STA. 4+92 (9 SQYD) (PARK AND RIDE)
LT STA. 5+61 (5 SQYD) (PARK AND RIDE)
LT STA. 5+88 (4 SQ YD) (PARK AND RIDE)
LT STA. 6+17 (3 SQ YD) (PARK AND RIDE)

CONSTRUCT DETECTABLE WARNINGS
RT STA. 15+02 (10 SQFT) (APPLE PATCH PLACE)
RT STA. 15+32 (10 SQFT) (APPLE PATCH PLACE)
LT STA. 5+90 (10 SQ FT) (PARK AND RIDE)
LT STA. 6+15 (10 SQ FT) (PARK AND RIDE)

HANDICAP SIGN (D9-4) AND SIGN POST
LT STA. 4+90 (24"X24" SIGN) (11 LF POST)
LT STA. 5+07 (24"X24" SIGN) (11 LF POST)
LT STA. 5+16 (24"X24" SIGN) (11 LF POST)
LT STA. 5+34 (24"X24" SIGN) (11 LF POST)
LT STA. 5+44 (24"X24" SIGN) (11 LF POST)

PRECAST VEHICLE STOP
LT STA. 4+90 (7 LF)
LT STA. 5+07 (7 LF)
LT STA. 5+16 (7 LF)
LT STA. 5+34 (7 LF)
LT STA. 5+44 (7 LF)

CONSTRUCT STANDARD CURB AND GUTTER
RT STA. 12+00 TO RT STA. 15+05 (303 LF) (APPLE PATCH PLACE)
RT STA. 15+29 TO RT STA. 16+40 (121 LF) (APPLE PATCH PLACE)
LT STA. 12+00 TO LT STA. 13+71 (154 LF) (APPLE PATCH PLACE)
LT STA. 13+97 TO LT STA. 16+40 (232 LF) (APPLE PATCH PLACE)

CONSTRUCT STANDARD HEADER CURB
RT STA. 2+60 TO RT STA. 7+10 (569 LF) (PARK AND RIDE)
LT STA. 2+60 TO LT STA. 5+78 (410 LF) (PARK AND RIDE)
LT STA. 6+27 TO LT STA. 7+10 (122 LF) (PARK AND RIDE)
LT/RT STA. 1+05 TO LT/RT STA. 1+65 (122 LF) (DRIVE 1)

CONSTRUCT SIDEWALK-4 IN CONC
RT STA. 12+00 TO RT STA. 15+04 (202 SQYD) (APPLE PATCH PLACE)
RT STA. 15+30 TO RT STA. 16+40 (61 SQYD) (APPLE PATCH PLACE)
LT STA. 2+60 TO LT STA. 5+91 (304 SQ YD) (PARK AND RIDE)
LT STA. 6+14 TO LT STA. 7+10 (96 SQ YD) (PARK AND RIDE)
LT STA. 3+09 TO LT STA. 3+31 (29 SQYD) (PARK AND RIDE)
LT STA. 1+25 TO LT STA. 1+70 (36 SQYD) (DRIVE 1)
RT STA. 1+36 TO RT STA. 1+77 (23 SQYD) (DRIVE 1)

CONSTRUCT SUBGRADE DRAINAGE
LT TO RT STA. 12+83 (39 LF OF PERFORATED PIPE-6") AND
(4 LF OF NON-PERORATED PIPE-6") (APPLE PATCH PLACE)

SODDING
LT/RT STA. 12+00 TO LT/RT STA. 16+40 (3215 SQ YD) (APPLE PATCH PLACE)
LT/RT STA. 2+60 TO LT/RT STA. 7+10 (2405 SQ YD) (PARK AND RIDE)

SEEDING AND PROTECTION
LT/RT STA. 12+00 TO LT/RT STA. 16+40 (5859 SQ YD) (APPLE PATCH PLACE)
LT/RT STA. 2+60 TO LT/RT STA. 7+100 (2576 SQ YD) (PARK AND RIDE)

DITCH CONSTRUCTION

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	T	D
LT 2+60 - 3+05 (PARK)	CHANNEL	2' FB	ECB	30 SY	--	2.00'
RT 2+60 - 3+39 (PARK)	CHANNEL	2' FB	ECB	231 SY	--	2.00'
LT 3+70 (PARK)	OUTLET	2' FB	CL II	9 TONS	1.25'	1.50'
LT 4+72 (PARK)	OUTLET	2' FB	CL II	3 TONS	1.25'	1.00'
RT 4+85 (PARK)	OUTLET	2' FB	CL II	14 TONS	1.25'	--
RT 12+01 - 12+95 (APPLE)	OUTLET	2' FB	CL II	60 TONS	1.25'	2.00'
LT 13+05 (APPLE)	OUTLET	2' FB	CL II	6 TONS	1.25'	1.00'
RT 13+62 (APPLE)	INLET	2' FB	CL II	3 TONS	1.25'	--

NOTE:
THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF UTILITIES OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

SCALE: 1"=20'

PARK AND RIDE AT APPLE PATCH
PLAN SHEET
STA. 12+00 TO STA. 16+40

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\5009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: ****
DATE PLOTTED: January 30, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R7

DATUM

762
760
758
756
754
752
750
748
746
744
742
740
738
736
734
732
730
728
726

L = 200.00 FT
G1 = -5.00%
G2 = 2.50%
E = 1.88 FT
K = 26.67
HLSD = 160.00 FT

L = 100.00 FT
G1 = 2.50%
G2 = -2.50%
E = -0.63 FT
K = 20.00
HLSD = 265.83 FT

PVC 12+50.00
Elev 748.14

PVI 13+50.00
Elev 743.14

PVT 14+50.00
Elev 745.64

PVC 14+70.00
Elev 746.14

PVI 15+20.00
Elev 747.39

PVT 15+70.00
Elev 746.14

LO 13+83.33
Elev 744.81

HI 15+20.00
Elev 745.77

2.50%

-2.50%

IE 744.82

IE 744.69

TR 744.61

PERF. PIPE-6"
EL=742.23

So=1.3%

So=1.2%

PROP 86' ~ 15" SS

PROP
36' ~ 30" SS

30" SS

24" SS

FL 740.09

FL 739.00

FL 738.57

43.00' LT STA. 13+09
CONST MH TY C (H=7.04')

15.67' LT STA. 13+36
CONST CBI TY A (SIZE 2S-2, H=5.82')

15.67' LT STA. 14+25
CONST CBI TY A (SIZE 2-1, H=4.60')

749.6	745.0	740.2	740.3	742.5	743.0	746.0	747.0	745.0
750.64	748.14	746.11	745.02	744.86	745.64	746.67	746.54	745.39

12+00 12+50 13+00 13+50 14+00 14+50 15+00 15+50 16+00

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE LEFT OF THE CENTERLINE

APPLE PATCH PLACE
PROFILE
STA. 12+00 TO STA. 16+40

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\1500923 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: ****
DATE PLOTTED: January 19, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R7A

L = 200.00 FT
G1 = -5.00%
G2 = 2.50%
F = 1.88 FT
K = 26.67
HLSD = 160.00 FT

G1 = 2.50%
G2 = -2.50%
F = -0.83 FT
K = 20.00
HLSD = 265.83 FT

BEGIN 2' FB DT
STA. 12+00, 43.50' RT (749.19)

2' FB DT
STA. 12+50.00, 51.5' RT (744.36)

END 2' FB DT
STA. 12+85, 74.2' RT (741.11)

PVC 12+50.00
Elev 748.14

PVI 13+50.00
Elev 743.14

54.25' RT STA 13+68.50
CONST DBI TY 3 (W/6' APRON, H= 2.80')

15.67' RT STA 13+83
CONST CBI TY A SIZE 14-6, H= 4.32')

LO 13+83.33
Elev 744.81

PVT 14+50.00
Elev 745.64

19.70' RT STA 14+54.69
CONST MH TY A (H=4.95')

PVC 14+70.00
Elev 746.14

33.00' RT STA 15+05.43
CONST CBI TY F (H=4.45')

PVI 15+20.00
Elev 747.39

33.00' RT STA 15+28.50
CONST CBI TY F (H=4.25')

PVT 15+70.00
Elev 746.14

HI 15+20.00
Elev 746.77

So=9.4%
So=2.3%
So=1.3%
So=1.0%
So=0.91%
-2.50%
2.50%

TG 744.50
TG 746.19
IE 744.41
IE 745.94
IE 745.94

24" SS
PERF. PIPE-6"
EL= 742.23
15" SS
FL 741.70
15" SS
FL 740.09
CONST. 66' ~ 24" SS
CONST. 50' ~ 15" SS
CONST. 22' ~15" SS
FL 740.97
FL 741.49
FL 741.69

749.6	750.64	745.0	748.14	740.2	746.11	740.3	745.02	742.5	744.86	743.0	745.64	746.0	746.67	747.0	746.54	745.0	745.39
12+00		12+50		13+00		13+50		14+00		14+50		15+00		15+50		16+00	

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE RIGHT OF THE CENTERLINE

APPLE PATCH PLACE
PROFILE
STA. 12+00 TO STA. 16+40

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

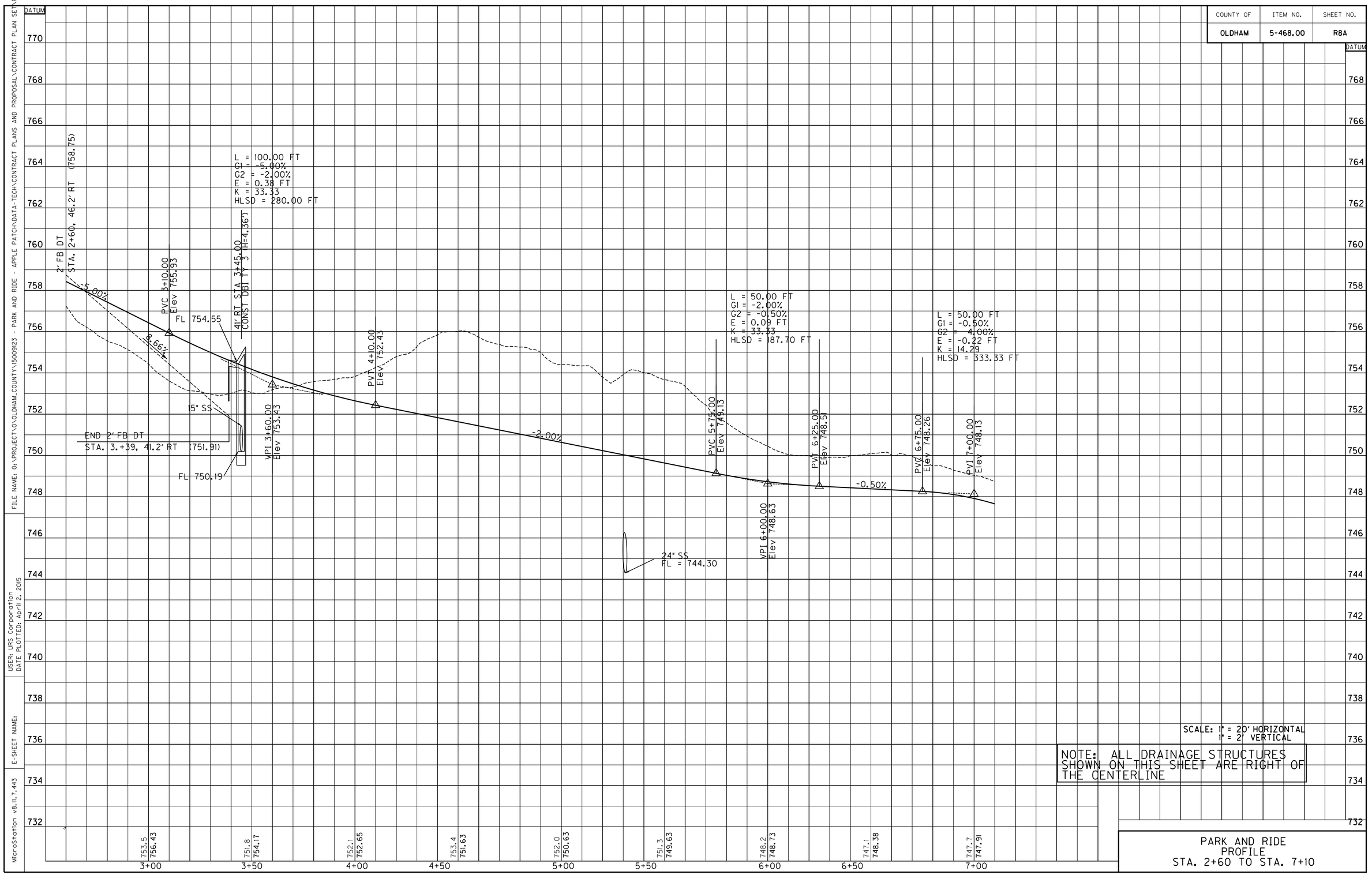
USER: URS Corporation
DATE PLOTTED: January 19, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF
OLDHAM
ITEM NO.
5-468.00
SHEET NO.
R8
DATUM
770
768
766
764
762
760
758
756
754
752
750
748
746
744
742
740
738
736
734
732
2' FB DT
STA. 2+60, 64.7' LT (753.24)
END 2' FB DT
STA. 3+05, 51.8' LT (753.05)
PVC 3+10.00
Elev 755.93
-5.00%
L = 100.00 FT
G1 = -5.00%
G2 = -2.00%
E = 0.38 FT
K = 33.33
HLSD = 280.00 FT
PVI 3+60.00
Elev 753.43
PVT 4+10.00
Elev 752.43
4.22%
TG 752.75
So=10.0%
PROP 56' ~ 15" SS
So=2.1%
PROP 55' ~ 15" SS
TR 751.65
TG 752.56
So=2.2%
PROP 27' ~ 15" SS
FL 748.56
FL 747.40
FL 747.40
FL 747.94
15" SS
FL 744.96
50' LT STA. 3+05
CONST DBI TY 15 (H=4.19')
50' LT STA. 3+64
CONST MH TY A (H=6.48')
28.50' LT STA. 3+79
CONST DBI TY 11 (H=5.29')
-2.00%
TG 750.58
15" SS
FL 745.65
28.50' LT STA. 4+72
CONST DBI TY 11 (H=5.60)
TR 749.48
L = 50.00 FT
G1 = -2.00%
G2 = -0.50%
E = 0.09 FT
K = 33.33
HLSD = 187.70 FT
PVC 5+75.00
Elev 749.13
TG 748.71
So=4.6%
PROP 17'~15" SS
FL 743.71
24" SS
FL 742.21
FL 742.92
42' LT STA. 5+52
CONST MH TY A (H=8.14)
28.50' LT STA. 5+64
CONST DBI TY 11 (H=5.67')
PVI 6+00.00
Elev 748.63
PVT 6+25.00
Elev 748.51
-0.50%
L = 50.00 FT
G1 = -0.50%
G2 = -4.00%
E = -0.22 FT
K = 14.29
HLSD = 333.33 FT
PVC 6+75.00
Elev 748.26
PVI 7+00.00
Elev 748.13
TG 747.25
So=3.0%
PROP 93'~15" SS
FL 742.89
28.50' LT STA. 7+01
CONST DBI TY 11 (H=5.03')
753.5
756.43
751.8
754.17
752.1
752.65
753.4
751.63
752.0
750.63
751.3
749.63
748.2
748.73
747.1
748.38
747.7
747.91
3+00
3+50
4+00
4+50
5+00
5+50
6+00
6+50
7+00
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL
NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE LEFT OF THE CENTERLINE
PARK AND RIDE
PROFILE
STA. 2+60 TO STA. 7+10
FILE NAME: O:\PROJECT\O\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: ####
DATE PLOTTED: January 30, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R8A



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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE RIGHT OF THE CENTERLINE

PARK AND RIDE
PROFILE
STA. 2+60 TO STA. 7+10

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: Apr 2, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\PARK AND RIDE.DGN
USER: ****
DATE PLOTTED: November 1, 2016
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R9

NOTE:
THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF UTILITIES OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

DITCH CONSTRUCTION						
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	T	D
LT 3+86 - 3+99 (ACCESS)	CHANNEL	2' FB	CL II	7 TONS	1.25'	1.5'
LT 5+59 - 6+28 (ACCESS)	CHANNEL	2' FB	ECB	85 SY		2.0'

CONSTRUCT STANDARD CURB AND GUTTER
RT STA. 16+40 TO RT STA. 17+50 (104 LF) (APPLE PATCH PLACE)
RT STA. 17+74 TO RT STA. 20+51 (296 LF) (APPLE PATCH PLACE)
LT STA. 16+40 TO LT STA. 17+47 (104 LF) (APPLE PATCH PLACE)
LT STA. 17+79 TO LT STA. 20+56 (262 LF) (APPLE PATCH PLACE)
LT STA. 4+22 TO RT STA. 4+58 (66 LF) (ACCESS DRIVE)
LT STA. 4+41 TO LT STA. 4+78 (49 LF) (ACCESS DRIVE)

CONSTRUCT STANDARD HEADER CURB
RT STA. 7+10 TO RT STA. 8+35 (165 LF) (PARK AND RIDE)
LT STA. 7+10 TO LT STA. 8+28 (139 LF) (PARK AND RIDE)

CONSTRUCT SIDEWALK-4 IN CONC
RT STA. 16+40 TO RT STA. 17+50 (64 SQYD) (APPLE PATCH PLACE)
RT STA. 17+76 TO RT STA. 20+45 (162 SQYD) (APPLE PATCH PLACE)
LT STA. 4+41 TO LT STA. 4+78 (26 SQ YD) (ACCESS DRIVE)
LT STA. 7+10 TO LT STA. 8+34 (88 SQ YD) (PARK AND RIDE)

SAWCUT PAVEMENT
LT/RT STA. 20+57 (106 LF) (APPLE PATCH PLACE)

CONSTRUCT SIDEWALK RAMP TYPE I
RT STA. 17+33 (5 SQYD) (APPLE PATCH PLACE)
RT STA. 17+87 (5 SQYD) (APPLE PATCH PLACE)
RT STA. 20+40 (4 SQYD) (APPLE PATCH PLACE)
IT STA. 4+77 (4 SQYD) (ACCESS DRIVE)
LT STA. 4+43 (4 SQYD) (ACCESS DRIVE)

CONSTRUCT DETECTABLE WARNINGS
RT STA. 17+42 (10 SQFT) (APPLE PATCH PLACE)
RT STA. 17+83 (10 SQFT) (APPLE PATCH PLACE)
RT STA. 20+43 (10 SQFT) (APPLE PATCH PLACE)
LT STA. 4+42 (10 SQFT) (ACCESS DRIVE)

DETECTABLE WARNINGS
SIDEWALK RAMP

VARIABLE SANITARY SEWER AND DRAINAGE EASEMENT DEED BOOK 712, PAGE 537

P/1
APPLE PATCH COMMUNITY, INC.

POT 7+00
PERM. ESMT
TEMP. ESMT
PROP. R/W
17+00
18+00
19+00
6+00
2' FB DT
PC 17+22.64
OE 736.19
21" SS
MATCHLINE STA. 16+40
12'
CBI TY A
IE 742.13
FL 736.37
CORE
ELEV 739.8
PI STA=18+49.68
Δ=53°52'38.62" LT
T=127.04'
L=235.08'
R=250.00'
E=30.43'
APPLE PATCH PLACE STA. 17+62.59=
ACCESS DRIVE STA. 5+00
PT 19+51.72
TEMP. ESMT
℄ APPLE PATCH PLACE
℄ ACCESS DRIVE
CBI TY A
IE 742.13
FL 736.52
90°
25'R
MH TY A
TR 743.44
FL 736.55
15" SS
5' CONC WALK
PROP. R/W
7.5' CONC WALK
MATCHLINE STA. 7+10
60'
5'R
S 69°25'48" E
PC 7+78.71
DBI TY 11
TG 742.83
FL 737.43
MH TY A
TR 743.53
FL 738.11
12" SS
PT 8+29.43
DBI TY 12A
TG VARIES
FL 738.00
PC 4+04.80
4+00
8+00
DBI TY 3
TG 743.25
FL 738.85
℄ PARK AND RIDE
PI STA=8+04.63
Δ=29°03'26.30" LT
T=25.92'
L=50.71'
R=100.00'
E=3.30'
PROP. R/W
10' LOUISVILLE GAS AND ELECTRIC COMPANY EASEMENT DEED BOOK 734, PAGE 162
P/4
OTTE FAMILY LIMITED PARTNERSHIP
CBI TY A
IE 742.13
FL 736.52
CBI TY A
IE 742.53
FL 736.24
TRAV 4
CBI TY A
IE 740.90
FL 736.94
PT 4+66.22
END CONSTRUCTION
PARK AND RIDE STA. 8+44
PI STA=4+36.51
Δ=35°11' 30.24" RT
T=31.71'
L=61.42'
R=100.00'
E=4.91'
TEMP. ESMT
POT 3+80
CBI TY A
IE 740.53
FL 736.40
5' CONC WALK
PROP. R/W
12" TREE
4" FORCE MAIN
DBI TY 3
TG 741.89
FL 737.66
50'R
CAP
4'-NON-PERF. PIPE-6'
OE=738.18
N 56°41'34" E
24'-PERF. PIPE-6'
15" SS
SAN
4" FORCE MAIN
SAN 20+05
OE 735.62
MH TY A
TR 739.06
FL 735.68
MH TY A
TR 741.67
FL 736.00
POT 20+68.13
SAN •IP
EDGE OF GRAVEL SHLD
PAVED CONC. DITCH
SPEED LIMIT 35 MPH
TELEPHONE CABINET
KY 329
BROWNSBORO ALT ROUTE
STOP SIGN
STREET SIGN
GM
4" GAS
12" CMP
GRAVEL SHLD
16" WATER
WM

SODDING
RT STA. 16+40 TO RT STA. 17+50 (346 SQ YD) (APPLE PATCH PLACE)
RT STA. 17+88 TO RT STA. 20+42 (317 SQ YD) (APPLE PATCH PLACE)
LT STA. 16+40 TO LT STA. 17+44 (165 SQ YD) (APPLE PATCH PLACE)
LT STA. 17+82 TO LT STA. 20+42 (640 SQ YD) (APPLE PATCH PLACE)
RT STA. 3+80 TO RT STA. 4+75 (191 SQ YD) (ACCESS DRIVE)
LT STA. 3+80 TO LT STA. 4+22 (91 SQ YD) (ACCESS DRIVE)
LT STA. 4+41 TO LT STA. 4+70 (37 SQ YD) (ACCESS DRIVE)

SEEDING AND PROTECTION
LT STA. 16+40 TO LT STA. 20+14 (1181 SQ YD) (APPLE PATCH PLACE)
RT STA. 17+91 TO RT STA. 20+42 (1360 SQ YD) (APPLE PATCH PLACE)
RT STA. 7+10 TO RT STA. 8+38 (1420 SQ YD) (PARK AND RIDE)

REMOVE PAVEMENT
LT/RT STA. 20+43 TO LT/RT STA. 20+57 (120 SQYD) (APPLE PATCH PLACE)

CONSTRUCT SUBGRADE DRAINAGE
LT TO RT STA. 19+77 (24 LF OF PERFORATED PIPE-6") AND (4 LF OF NON-PERORATED-6") (APPLE PATCH PLACE)

END PROJECT AND CONSTRUCTION
APPLE PATCH PLACE STA. 20+57

SCALE: 1"=20'

0' 20' 40' 80'

PARK AND RIDE AT APPLE PATCH
PLAN
STA. 16+40 TO STA. 20+57

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R10

DATUM 762 760 758 756 754 752 750 748 746 744 742 740 738 736 734 732 730 728 726 724

L = 100.00 FT
G1 = -2.50%
G2 = -0.50%
E = 0.25 FT
K = 50.00
HLSD = 1200.00 FT

PVC 16+81.25
Elev 743.36

-2.50%

IE 742.13

2" SS
FL 736.37

VPI 17+31.25
Elev 742.11

PVT 17+81.25
Elev 741.86

-0.50%

15.67' LT & RT
STA.17+20.00
CONST 2-CBI TY A
(SIZE 8-2, H=5.76' &
5.67')

744.0
744.14

742.5
742.93

740.8
742.12

743.9
741.77

745.8
741.52

747.1
741.27

747.6
741.02

746.9
741.00

741.1
741.60

16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50

L = 100.00 FT
G1 = -0.50%
G2 = 2.00%
E = 0.31 FT
K = 40.00
HLSD = 433.33 FT

PVC 19+56.80
Elev 740.98

PVI 20+06.80
Elev 740.73

PVT 20+56.80
Elev 741.73

PVI 20+56.86
Elev 741.74

2.00%

LO 19+76.80
Elev 740.93

IE 740.53

TR 741.67

EX. 4" SAN FM
D=6.7' (PER MH 250' RT)
TO BE RELOCATED

PERF. PIPE-6"
IE 738.25

15" SS

So=0.5%

PROP 46'-15" PIPE

FL 736.24

15" SS

FL 736.00

END PROJECT & END CONSTRUCTION
APPLE PATCH PLACE STA. 20+57.00

15.67' LT STA. 19+77 CONST
CBI TY A (SIZE 2-6, H=4.29')

20.50' LT STA. 20+24.50
CONST MH TY A (H=5.67')

EX. 16" WM
D-69"

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE LEFT OF THE CENTERLINE

APPLE PATCH PLACE
PROFILE
STA. 16+40 TO STA. 20+57

FILE NAME: 0:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: ****
DATE PLOTTED: January 30, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R10A

DATUM

762 760 758 756 754 752 750 748 746 744 742 740 738 736 734 732 730 728 726 724

L = 100.00 FT
G1 = -2.50%
G2 = -0.50%
E = 0.25 FT
K = 50.00
HLSD = 1200.00 FT

L = 100.00 FT
G1 = -0.50%
G2 = 2.00%
E = 0.31 FT
K = 40.00
HLSD = 433.33 FT

-2.50%

PVC 16+81.25
Elev 743.36

TG 743.44

PROP 93' - 15" SS
So=3.0%

FL 740.06

15" SS

2" SS

FL 736.55

PVI 17+31.26
Elev 742.11

37.75' RT STA. 17+22.50
CONST MH TY A (H=6.90')

PROP 60' - 15" SS
So=0.7%

PVT 17+81.25
Elev 741.86

IE 740.90

FL 736.94

37' RT STA. 17+76.45
CONST CBI TY A (SIZE 2'-6", H=3.96')

-0.50%

PVC 19+56.80
Elev 740.98

15.67' RT STA. 19+77
CONST I - CBI TY A (SIZE 2'-6", H=4.13')

IE 740.53

LO 19+76.80
Elev 740.93

PERF. PIPE-6"
IE 738.25

15" SS

FL 736.40

PVI 20+06.80
Elev 740.73

EX. 4" SAN FM
D=6.7' (PER MH 250' R')
TO BE RELOCATED

62' RT STA. 20+40.70
CONST I - DBI TY 3 (H=4.23')

TG 741.89

PVT 20+56.80
Elev 741.73

2.00%

PVI 20+56.86
Elev 741.74

15" SS

FL 737.66

EX. 16" WM
D=6"

END PROJECT & END CONSTRUCTION
APPLE PATCH PLACE STA. 20+57

744.0 744.14 | 742.5 742.93 | 740.8 742.12 | 743.9 741.77 | 745.8 741.52 | 747.1 741.27 | 747.6 741.02 | 746.9 741.00 | 741.1 741.60

16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE RIGHT OF THE CENTERLINE

APPLE PATCH PLACE
PROFILE
STA. 16+40 TO STA. 20+57

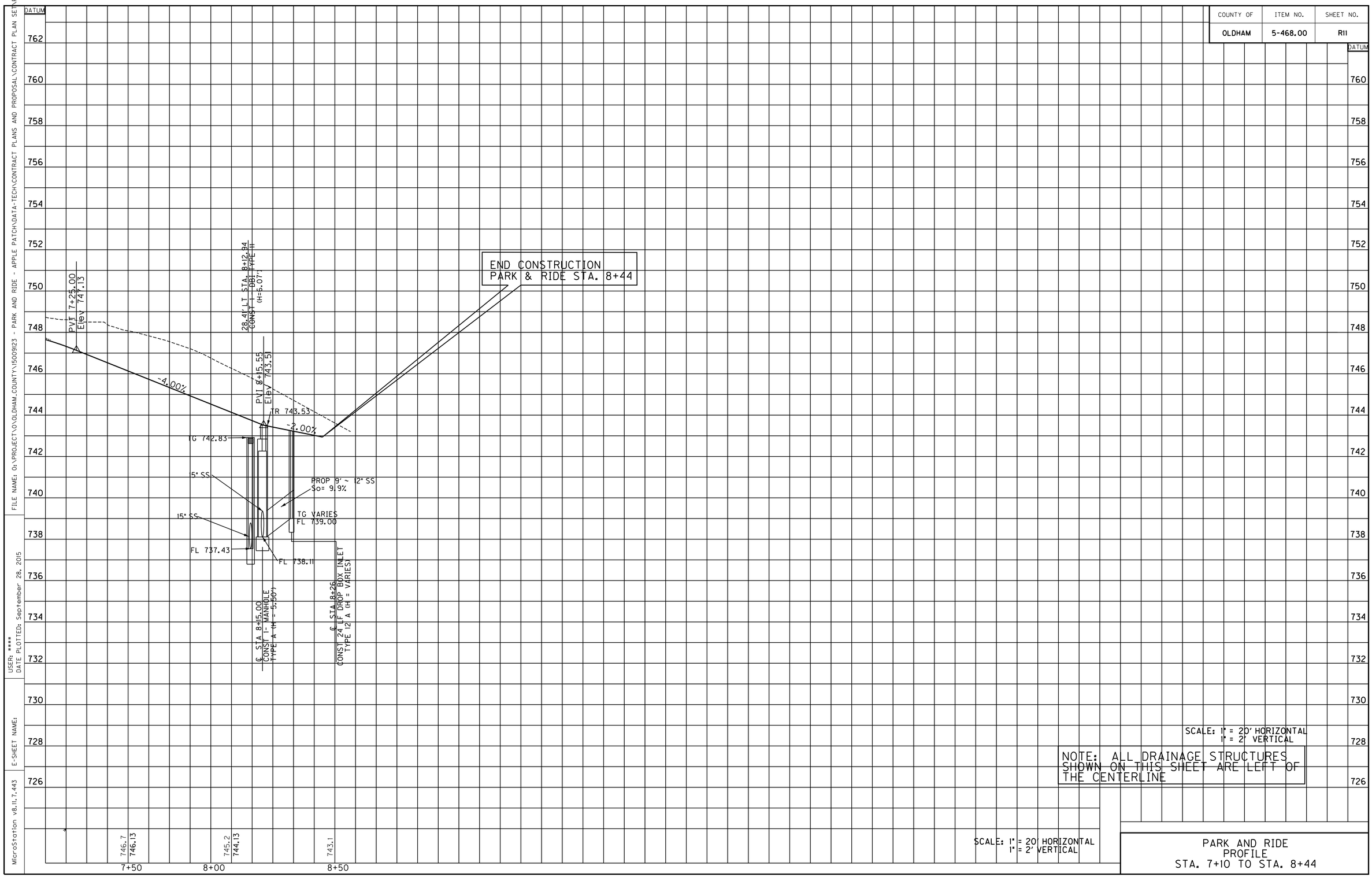
FILE NAME: 0:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 19, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	RII



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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE LEFT OF THE CENTERLINE

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

PARK AND RIDE
PROFILE
STA. 7+10 TO STA. 8+44

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: ****
DATE PLOTTED: September 28, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	RIIA

DATUM
762
760
758
756
754
752
750
748
746
744
742
740
738
736
734
732
730
728
726
724

PVI 7+25.00
Elev 747.13

-4.00%

PVI 8+15.55
Elev 743.51

-2.00%

END CONSTRUCTION
PARK & RIDE STA. 8+44

TG 743.25

15" SS

FL 738.85

37' RT STA. 8+24.36
CONST 1 - DBI TY 3
(H=4.40')

746.7
746.13
7+50

745.2
744.13
8+00

743.1
8+50

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

NOTE: ALL DRAINAGE STRUCTURES SHOWN ON THIS SHEET ARE RIGHT OF THE CENTERLINE

PARK AND RIDE
PROFILE
STA. 7+10 TO STA. 8+44

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: January 19, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R12

RIGHT OF WAY SUMMARY

PARCEL NO.	OWNER(S)	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				SOURCE OF TITLE	REMARKS*
						PERMANENT	TEMPORARY	LEFT		RIGHT														
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
1	APPLE PATCH COMMUNITY, INC.	15.334		3.229	140,632	8,171	56,097	8.982	391,242	0.953	41,491	2.172	94,606	9.933		3		X					DB 1039, PG 422	EXCESS AREA TO BE DEDICATED BY PLAT
2	LOUISVILLE WATER COMPANY	1.348				1,200	7,759							1.348		5		X					DB 694, PG 434	

NOTE: PERMANENT R/W ACQUIRED + PORTION REMAINING + EXCESS PURCHASED = TOTAL AREA OF TRACT.

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

*INCLUDES HAZARDOUS WASTE (UST - UNDERGROUND STORAGE TANKS)

PARK AND RIDE AT APPLE PATCH
RIGHT OF WAY SUMMARY SHEET

MicroStation v8.11.7.443
E-SHEET NAME:
USER: james.pennington
DATE PLOTTED: January 13, 2015
FILE NAME: R0120ORW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R13

55+00

PT 55+53.15

N 39°48'24" E

℄ APPLE PATCH WAY

PI 54+81.03

PC 53+95.04

N 16°06'52" W 111.45

PT 52+83.59

APPLE PATCH COMMUNITY, INC.
DEED BOOK 1039 PAGE 422

PROP. R/W

50+00

POT 50+00.00

N 69°25'48" W 131.58'

N 69°25'48" W 533.20'

PROP. R/W

TEMP. ESMT

PR. 15' SANITARY SEWER AND DRAINAGE ESMT.

S 69°25'48" E 664.34'

S 69°25'48" E

℄ ACCESS DRIVE

APPLE PATCH COMMUNITY, INC.
DEED BOOK 1039 PAGE 422

℄ APPLE PATCH PLACE

APPLE PATCH WAY

PI STA=54+81.03
Δ=55°55'16.00" RT
T=85.99'
L=158.11'
R=162.00'
E=21.41'

PI STA=51+50.63
Δ=47°47'22.57" LT
T=150.63'
L=283.59'
R=340.00'
E=31.87'

APPLE PATCH PLACE

PI STA=18+49.68
Δ=53°52'38.62" LT
T=127.04'
L=235.08'
R=250.00'
E=30.43'

KY 329

EX. R/W

POT 20+68.73

PT 19+57.72

POT 7+00

PROP. DRAINAGE ESMT

PC 17+22.64

N 11°24'52" E

N 56°41'34" E

PROP. R/W

TEMP. ESMT

PT 4+66.22

PC 4+04.80

ACCESS DRIVE

PI STA=4+36.51
Δ=35°11'30.24" RT
T=31.71'
L=61.42'
R=100.00'
E=4.91'

POT 3+80

PI STA=3+49.68

PI 8+04.63

PT 8+29.43

N 66°13'21" E 236.88'

OTTE FAMILY LIMITED PARTNERSHIP
DEED BOOK 769 PAGE 470

PI 51+50.63

POT 9+50.00

PROP. R/W

PC 2+21.55

PT 2+99.42

S 42°31'27" E

PI 1+00.00

PT 1+15.52

S 05°36'43" E

POT 0+00.00

PC 0+83.31

BWLLC EAT LLC
DEED BOOK 1055 PAGE 285

PROP. R/W N 20°34'12" E 171.50'

PROP. R/W N 77°59'12" E 271.29'

S 23°46'39" E 175.00'

PROP. R/W

N 01°45'58" W 175.00'

S 01°45'58" E 222.59'

PI 2+64.41

N 89°45'24" E 58.45'

PR. DRAINAGE ESMT.

APPLE PATCH COMMUNITY, INC.
DEED BOOK 1039 PAGE 422

℄ PARK AND RIDE

LOUISVILLE WATER COMPANY
DEED BOOK 694 PAGE 434

PARK AND RIDE

PI STA=1+00.00
Δ=36°54'43.78" LT
T=16.69'
L=32.21'
R=50.00'
E=2.71'

PI STA=2+64.41
Δ=59°29'20.39" LT
T=42.86'
L=77.87'
R=75.00'
E=11.38'

PI STA=6+24.57
Δ=32°34'59.83" RT
T=58.45'
L=113.74'
R=200.00'
E=8.37'

PI STA=8+04.63
Δ=29°03'26.30" LT
T=25.92'
L=50.71'
R=100.00'
E=3.30'

(A) S 74°47'01" E 60.00'

(B) RADIUS=132.00' ARC=72.18'
CHORD=S 0°26'57" E 71.29'

(C) RADIUS=192.00' ARC=104.99'
CHORD=S 0°26'57" E 103.69'

(D) RADIUS=310.00' ARC=80.85'
CHORD=S 8°38'36" E 80.62'

(E) RADIUS=370.00' ARC=206.14'
CHORD=S 0°09'13" E 203.49'

(F) RADIUS=310.00' ARC=177.72'
CHORD=S 15°15'05" W 175.30'

(G) N 58°19'30" W 60.00'

(H) RADIUS=30.00' ARC=30.81'
CHORD=S 81°09'10" W 29.47'

(I) RADIUS=30.00' ARC=44.63'
CHORD=S 26°48'40" E 40.63'

(J) RADIUS=220.00' ARC=206.87'
CHORD=N 83°37'53" E 199.34'

(K) N 56°41'34" E 23.89'

(L) RADIUS=30.00' ARC=49.96'
CHORD=S 8°59'15" W 44.38'

(M) S 38°43'03" E 25.52'

(N) S 33°28'02" E 97.34'

(O) RADIUS=30.00' ARC=47.04'
CHORD=S 78°23'14" E 42.37'

(P) S 56°41'34" W 26.43'

(Q) RADIUS=280.00' ARC=159.42'
CHORD=S 73°00'13" W 157.28'

(R) RADIUS=30.00' ARC=55.92'
CHORD=S 35°54'53" W 48.17'

(S) RADIUS=70.00' ARC=7.69'
CHORD=S 20°37'52" E 7.68'

(T) S 23°46'39" E 24.39'

(U) S 66°13'21" W 60.00'

(V) N 23°46'39" W 24.39'

(W) RADIUS=130.00' ARC=62.93'
CHORD=N 9°54'37" W 62.31'

(X) RADIUS=30.00' ARC=38.43'
CHORD=N 32°44'11" W 35.85'

(Y) S 42°31'27" E 57.88'

(Z) N 60°29'53" E 87.50'

(AA) S 42°40'11" E 115.43'

(AB) N 89°35'37" E 25.14'

(AG) N 69°25'48" W 15.14'

(AI) S 69°25'48" E 15.41'

(AJ) S 77°59'12" W 16.53'

NOTE: ALL STATION/OFFSETS REFER TO ℄ APPLE PATCH PLACE EXCEPT FOR PROPOSED RIGHT OF WAY ALONG APPLE PATCH WAY

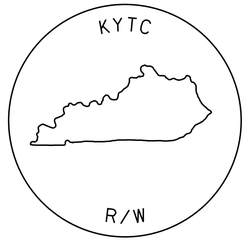
0' 50' 100' 200'

SCALE: 1"=50'

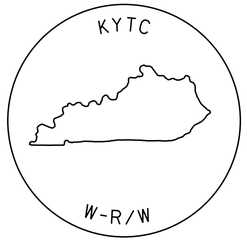
PARK AND RIDE AT APPLE PATCH RIGHT OF WAY PLAN

FILE NAME: R0130ORW.DGN
USER: terri.combs
DATE PLOTTED: January 14, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

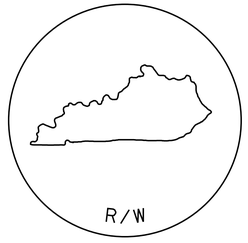
COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R14



R/W MONUMENT
TYPE 1 OR 1A

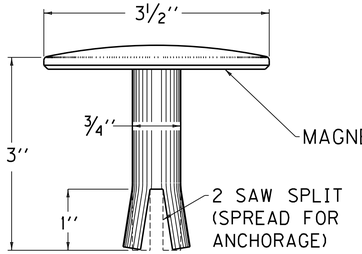


WITNESS R/W
MONUMENT
TYPE 2

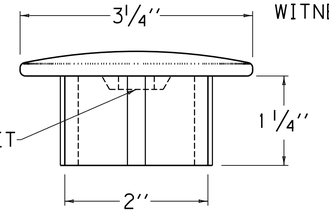


R/W MONUMENT
TYPE 3 OR 3A

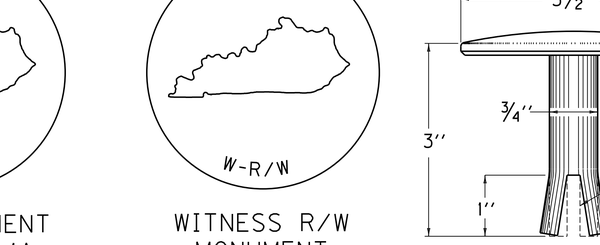
WITNESS R/W
MONUMENT
TYPE 4



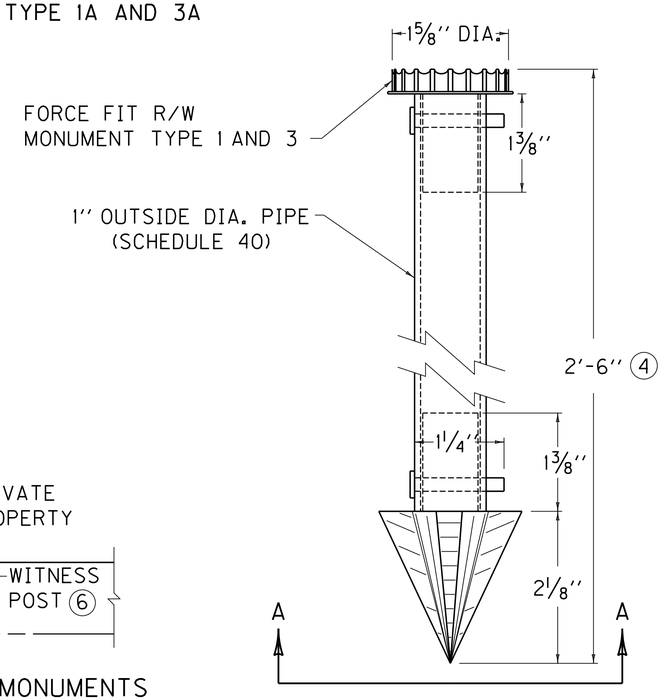
ELEVATION VIEW
R/W MONUMENT
TYPE 1A AND 3A



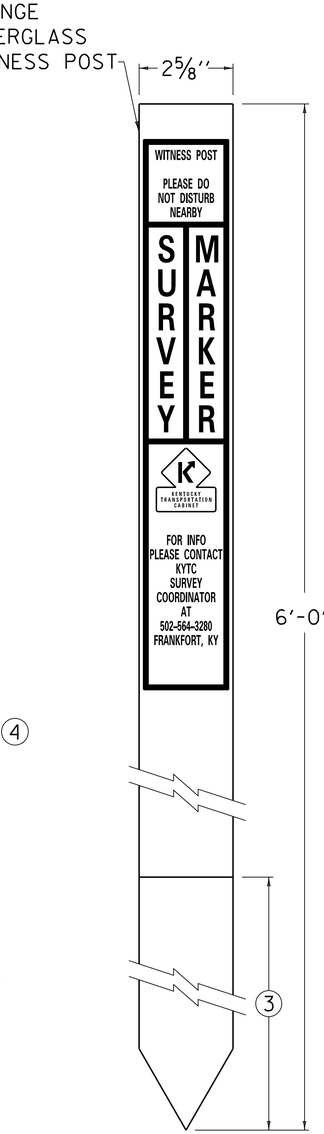
ELEVATION VIEW
R/W MONUMENT
TYPE 1 AND 3



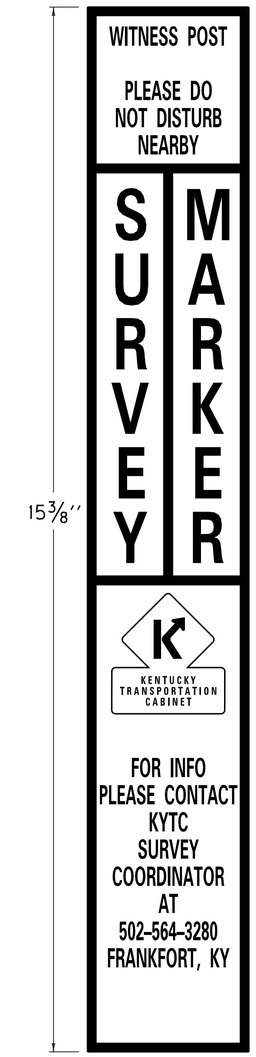
LAYOUT OF RURAL RIGHT-OF-WAY MONUMENTS



ELEVATION VIEW
R/W MONUMENT
TYPE 1 AND 3



ELEVATION WITNESS POST



WITNESS POST DECAL

NOTES

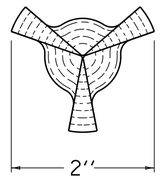
1. MANUFACTURE R/W MONUMENTS FROM ALUMINUM ALLOY.
2. TYPE 1A AND 3A MONUMENTS SHALL BE MOUNTED FLUSH IN EXISTING PAVEMENT, DRAINAGE BOXES, ETC. DRILL A 1$\frac{1}{16}$'' DIAMETER HOLE AND EPOXY (COMMERCIAL GRADE) INTO EXISTING CONCRETE.

③ WITNESS POST SHALL BE BURIED 1'-6'' TO 2'-0'' IN GROUND.

④ WHEN ROCK IS ENCOUNTERED LENGTH MAY BE REDUCED.

5. SET ALL R/W MONUMENTS FLUSH WITH GROUND OR ADJOINING SURFACE.

⑥ THE LAND SURVEYOR IN CHARGE OF MONUMENTATION IS ENCOURAGED TO PLACE A WITNESS POST FOR THE RIGHT-OF-WAY MONUMENTS WHERE PRACTICAL AND FEASIBLE. IF POSSIBLE, A MINIMUM OF THREE WITNESS POSTS PER PROJECT SHOULD BE PLACED.



SECTION A-A

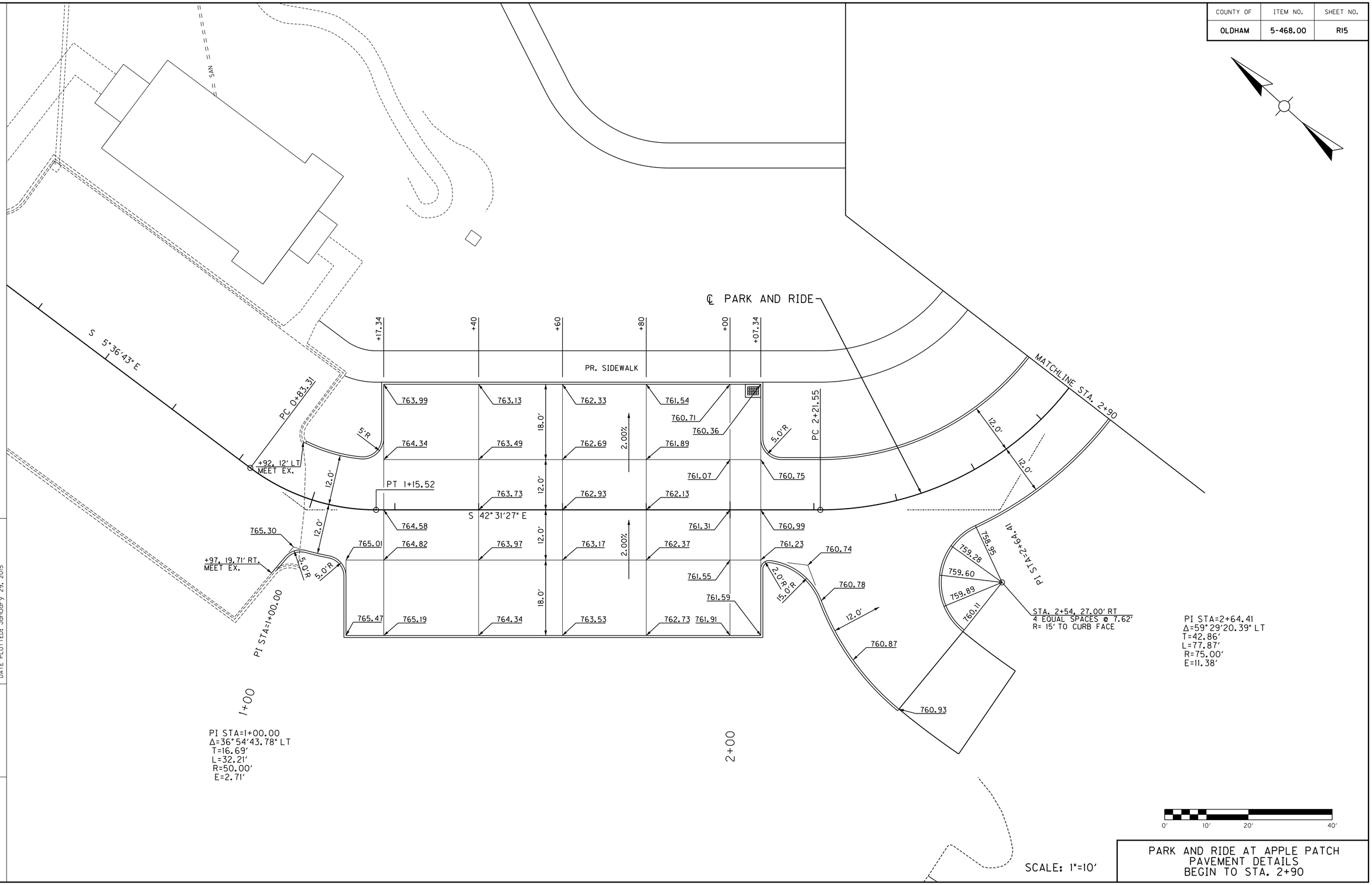
KENTUCKY
DEPARTMENT OF HIGHWAYS

RIGHT-OF-WAY MONUMENTS

SUBMITTED Jeff Jasper 6-03-12
DIRECTOR DIVISION OF HIGHWAY DESIGN — DATE

005

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R15

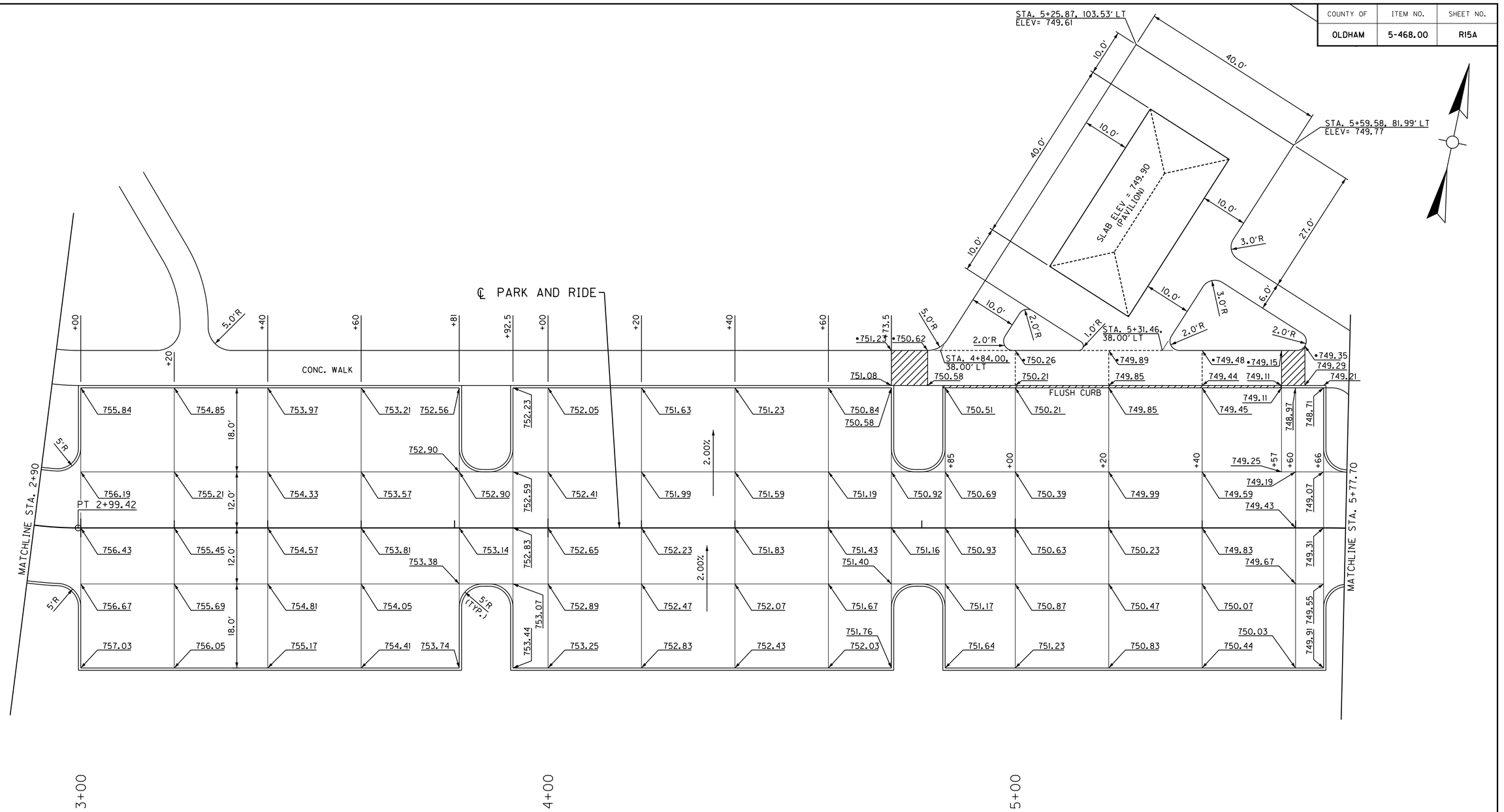


SCALE: 1"=10'

PARK AND RIDE AT APPLE PATCH PAVEMENT DETAILS BEGIN TO STA. 2+90

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: terri.combs | DATE PLOTTED: January 29, 2015 | FILE NAME: R015000S.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R15A



NOTE:
ALL CROSS SLOPES IN THE AREA OF THE HANDICAPPED PARKING SHALL NOT EXCEED 2.0% IN ANY DIRECTION.

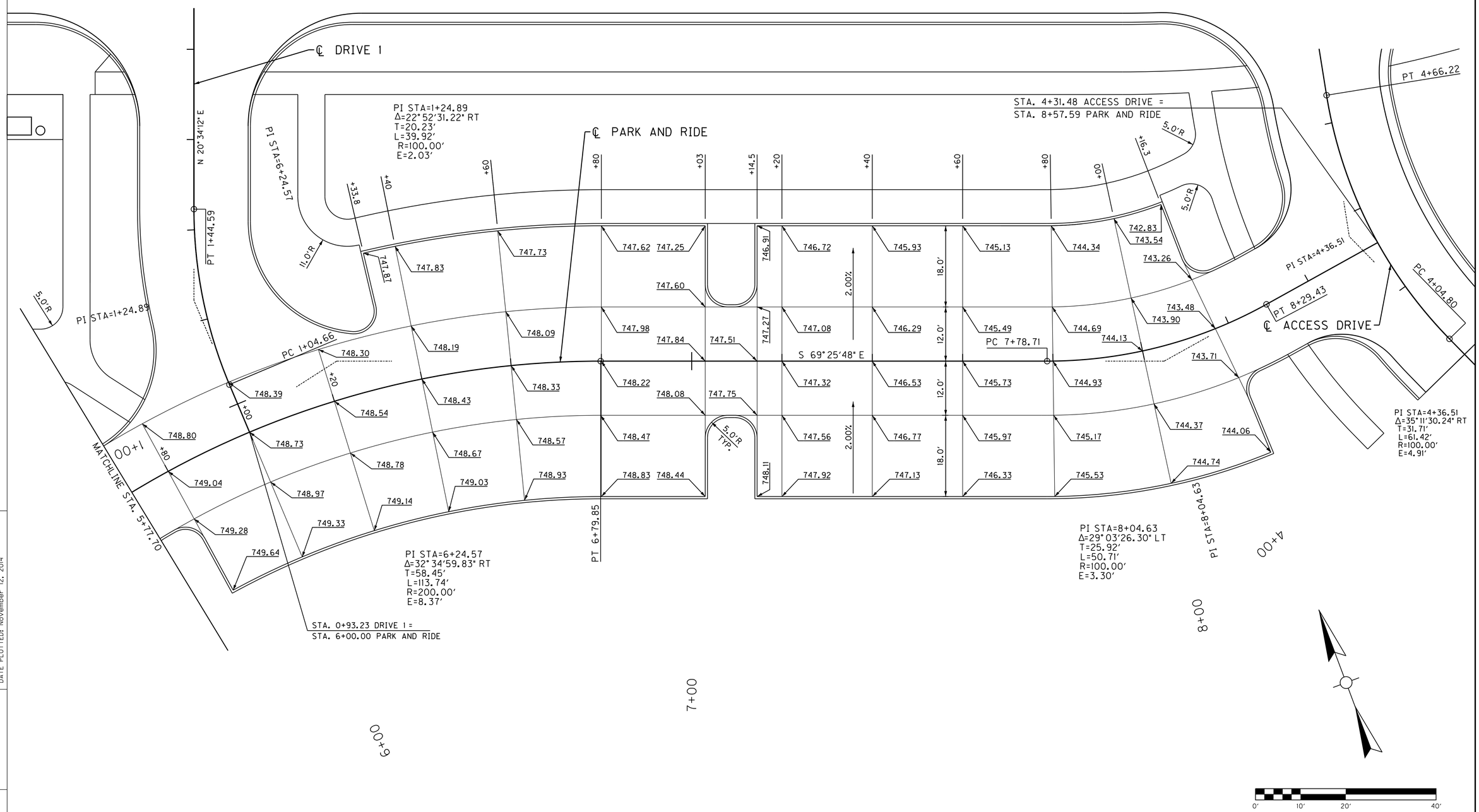
0' 10' 20' 40'

SCALE: 1"=10'

PARK AND RIDE AT APPLE PATCH
PAVEMENT DETAILS
STA. 2+90 TO STA. 5+77.70

MicroStation v8.11.7.443
E-SHEET NAME:
USER: terri.combs
DATE PLOTTED: November 8, 2018
FILE NAME: R015A00DS.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R15B



SCALE: 1"=10'

PARK AND RIDE AT APPLE PATCH
PAVEMENT DETAILS
STA. 5+77.70 TO END

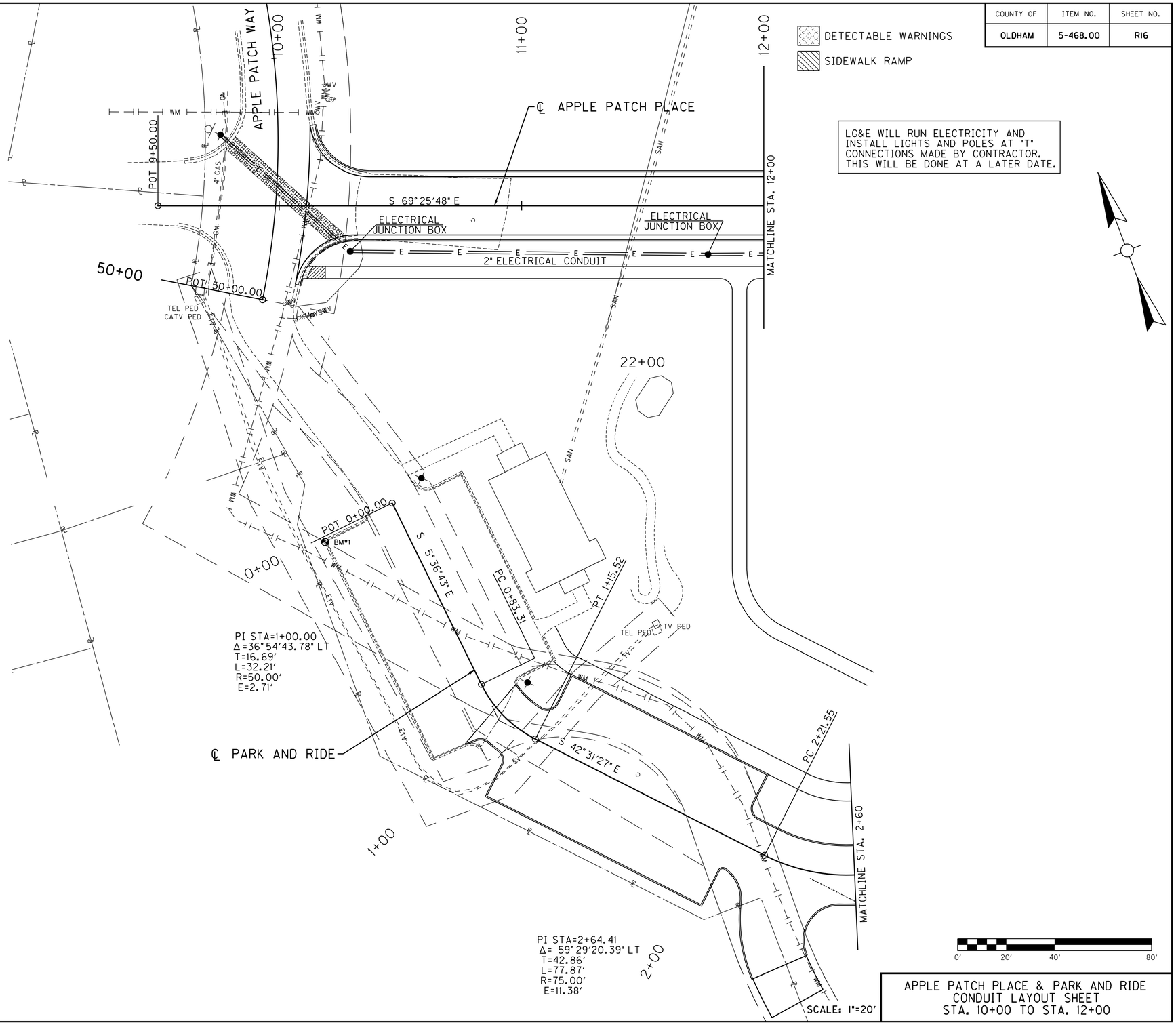
FILE NAME: R015B00DS.DGN
USER: terri.combs
DATE PLOTTED: November 12, 2014
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R16

DETECTABLE WARNINGS

SIDEWALK RAMP

LG&E WILL RUN ELECTRICITY AND INSTALL LIGHTS AND POLES AT "T" CONNECTIONS MADE BY CONTRACTOR. THIS WILL BE DONE AT A LATER DATE.



TRENCHING AND BACKFILLING
LT & RT STA. 9+79 TO STA. 10+25 (60 LF)

CONST 2" CONDUIT
STA. 9+75 TO STA. 12+00 (369 LF)

ELECTRICAL JUNCTION BOX
RT STA. 10+29 (1 EACH)
RT STA. 11+76 (1 EACH)

APPLE PATCH PLACE & PARK AND RIDE
CONDUIT LAYOUT SHEET
STA. 10+00 TO STA. 12+00

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: ****
DATE PLOTTED: January 30, 2017 | FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R17

12+00 13+00 14+00 15+00 16+00

℄ APPLE PATCH PLACE

APPLE PATCH PLACE STA. 15+17=
DRIVE 1 STA. 2+00

MATCHLINE STA. 12+00

S 69°25'48" E

ELECTRICAL JUNCTION BOX

2" ELECTRICAL CONDUIT

ELECTRICAL JUNCTION BOX

90°

ELECTRICAL JUNCTION BOX

2" ELECTRICAL CONDUIT

MATCHLINE STA. 16+40

MAKE "T" CONNECTION

PT 1+44.59

P
1

APPLE PATCH COMMUNITY, INC.

TRAV 13

PAVILION

PI 1+24.89

S 69°25'48" E

MATCHLINE STA. 7+10

90°

PC 1+04.66

EX. POND

ELECTRICAL JUNCTION BOX

℄ PARK AND RIDE

PI STA=2+64.41
Delta= 59°29'20.39" LT
T=42.86'
L=77.87'
76°23'39.74"
R=75.00'
E=11.38'

2" ELECTRICAL CONDUIT

PARK & RIDE STA. 6+00=
DRIVE 1 STA. 0+93

PT 6+79.85

7+00

6+00

PC 5+66.11

PI STA=6+24.57
Δ=2°34'59.83" RT
T=58.45'
L=113.74'
R=200.00'
E=8.37'

N 77°59'12" E

PI STA=1+24.89
Δ=22°52'31.22" RT
T=20.23'
L=39.92'
R=100.00'
E=2.03'

5+00

ELECTRICAL JUNCTION BOX

PT 2+99.42

MATCHLINE STA. 2+60

4+00

P
2

LOUISVILLE WATER COMPANY

WATER TOWER

OTTE FAMILY LIMITED PARTNERSHIP

TRAV 5

3+00

LG&E WILL RUN ELECTRICITY AND INSTALL LIGHTS AND POLES AT "T" CONNECTIONS MADE BY CONTRACTOR. THIS WILL BE DONE AT A LATER DATE.

CONST 2" CONDUIT
STA. 12+00 TO STA. 16+40 (450 LF)
STA. 3+12 TO STA. 7+10 (450 LF)

ELECTRICAL JUNCTION BOX
RT STA. 13+16 (1 EACH) - APPLE PATCH PLACE
RT STA. 14+63 (1 EACH) - APPLE PATCH PLACE
RT STA. 16+49 (1 EACH) - APPLE PATCH PLACE
LT STA. 3+32 (1 EACH) - PARK AND RIDE
LT STA. 4+79 (1 EACH) - PARK AND RIDE
LT STA. 7+08 (1 EACH) - PARK AND RIDE

NOTE:
THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF UTILITIES OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

— WHEEL STOP
DETECTABLE WARNINGS
SIDEWALK RAMP

SCALE: 1"=20'

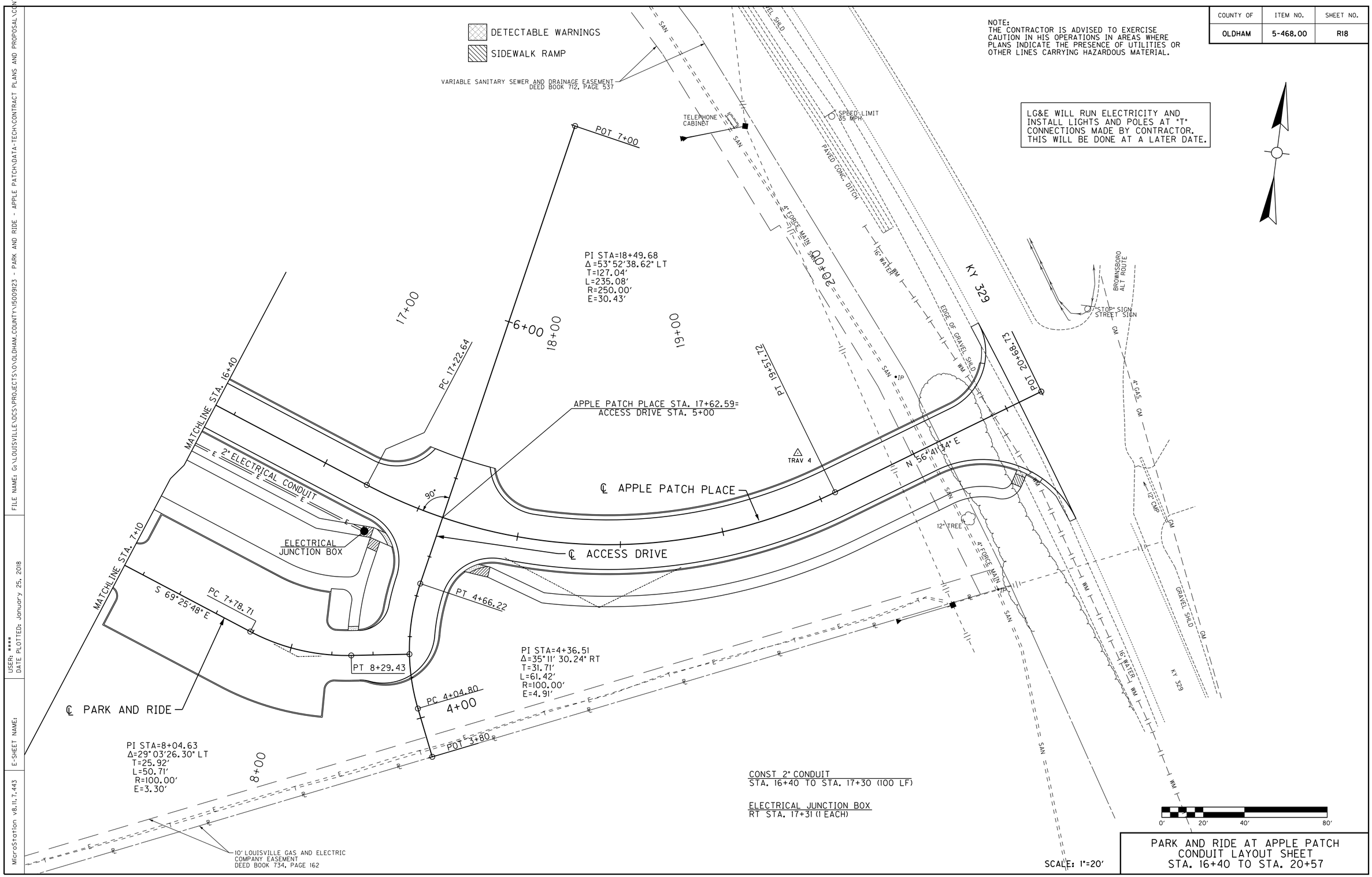
PARK AND RIDE AT APPLE PATCH CONDUIT LAYOUT SHEET STA. 12+00 TO STA. 16+40

MicroStation v8.11.7.443
E-SHEET NAME:
USER: ****
DATE PLOTTED: January 30, 2017
FILE NAME: d:\PROJECTV\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R18

NOTE:
THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF UTILITIES OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

LG&E WILL RUN ELECTRICITY AND INSTALL LIGHTS AND POLES AT "T" CONNECTIONS MADE BY CONTRACTOR. THIS WILL BE DONE AT A LATER DATE.



PARK AND RIDE AT APPLE PATCH
CONDUIT LAYOUT SHEET
STA. 16+40 TO STA. 20+57

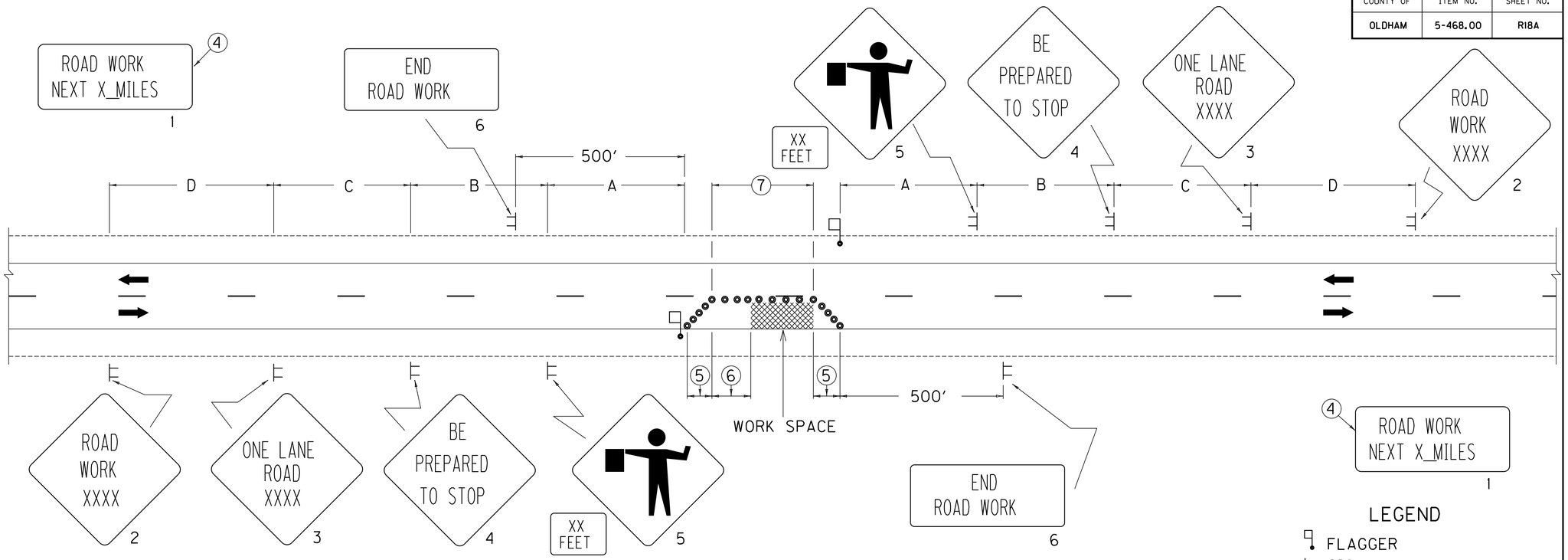
FILE NAME: G:\LOUISVILLE\DCS\PROJECTS\O\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRAC

USER: ====
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R18A



LEGEND

- FLAGGER
- SIGN
- CHANNELIZING DEVICES
  - CONES
  - DRUMS
  - TYPE II BARRICADES
  - TUBULAR MARKERS

1. THE SIZE OF SIGNS 2 THRU 5 SHALL BE 48" X 48" WITH 30" X 24" SUPPLEMENTAL PLAQUES FOR EXPRESSWAYS/FREEWAYS. THE MINIMUM SIZE OF SIGNS 2 THRU 5 SHALL BE 36" X 36" WITH 24" X 18" SUPPLEMENTAL PLAQUES FOR OTHER ROADWAYS. SIGN NOS. 1 AND 6 SHALL BE 48" X 24" FOR EXPRESSWAYS/FREEWAYS AND 36" X 18" FOR OTHER ROADWAYS. A FREEWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS. AN EXPRESSWAY SHALL BE DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.
2. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATIONS SHALL BE LOCATED FAR ENOUGH IN ADVANCE OF THE ACTIVITY AREA SO THAT APPROACHING ROAD USERS WILL HAVE SUFFICIENT DISTANCE TO STOP BEFORE ENTERING THE WORK SPACE (REFER TO TABLE 6C-2 OF THE MUTCD). ILLUMINATION SHALL BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT.
3. DRUMS OR TYPE II BARRICADES SHALL BE USED IN LIEU OF CONES OR TUBULAR MARKERS IF CLOSURE EXTENDS INTO NIGHTTIME HOURS.
4. SIGN NO. 1 SHOULD BE INSTALLED AT THE LIMITS OF THE PROJECT WHEN THE CONSTRUCTION ZONE IS LONGER THAN TWO MILES IN LENGTH. THE DISTANCE SHOWN SHALL BE STATED TO THE NEAREST WHOLE MILE.
5. TAPERS SHALL BE 50' (MIN) TO 100' (MAX) IN LENGTH. SPACING OF CHANNELIZING DEVICES SHOULD BE 20' THRU THE TAPER AREAS.
6. BUFFER SPACE (OPTIONAL). IF USED, THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES.
7. SPACING OF CHANNELIZING DEVICES THRU THE ACTIVITY AREA SHOULD BE 80'. ON ROADWAYS WITH WIDTHS LESS THAN 20 FEET, CHANNELIZING DEVICES MAY BE OMITTED THRU THE ACTIVITY AREA BASED ON ENGINEERING JUDGMENT.
8. WHEN NIGHTTIME WORK IS BEING PERFORMED, FLOODLIGHTS SHOULD BE USED TO ILLUMINATE THE WORK AREA.

DRAWING NOT TO SCALE

USE WITH CURRENT STD. DWG TTD-110

APPLICATION

THIS DRAWING APPLIES TO LANE CLOSURES ON TWO-LANE, TWO DIRECTION HIGHWAYS.

SIGNING AND SPACING TABLE				
ROAD TYPE	A	B	C	D
EXPRESSWAY/ FREEWAY	1000'	500'	1100'	2600'
SP. LT. ≥ 45 MPH*	500'	500'	500'	1100'
SP. LT. ≤ 40 MPH*	250'	250'	250'	250'

*NOTE: USE NORMAL POSTED SPEED LIMIT

KENTUCKY DEPARTMENT OF HIGHWAYS

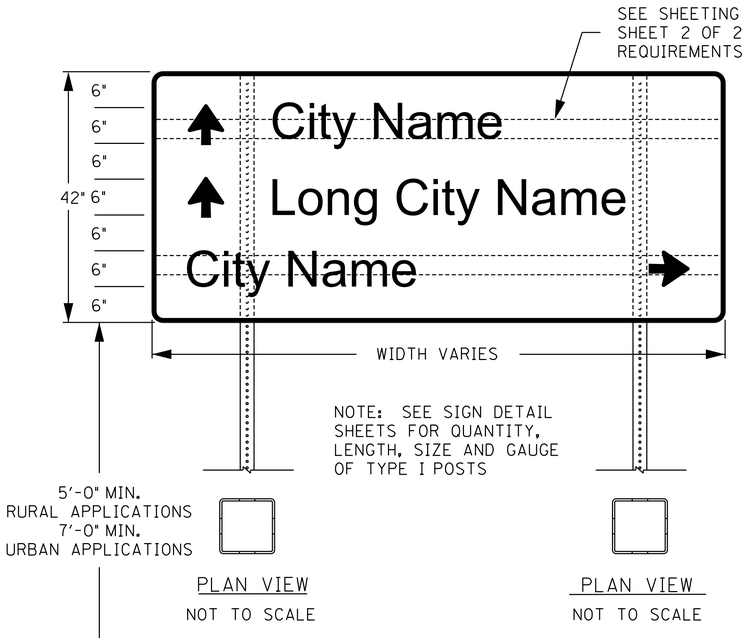
LANE CLOSURE TWO-LANE HIGHWAY

SUBMITTED R. Jeffrey Wolfe 8-29-13 DATE

017

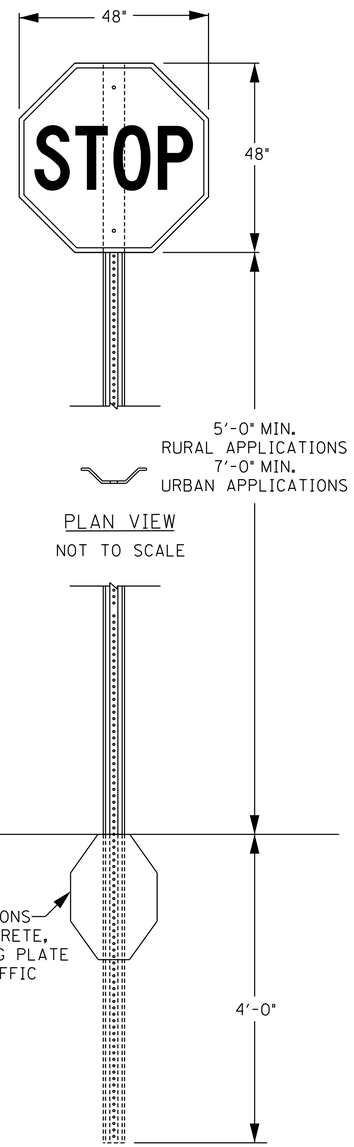
FILE NAME: O:\PROJECT\O\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: March 21, 2016
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-8708.00	R18B



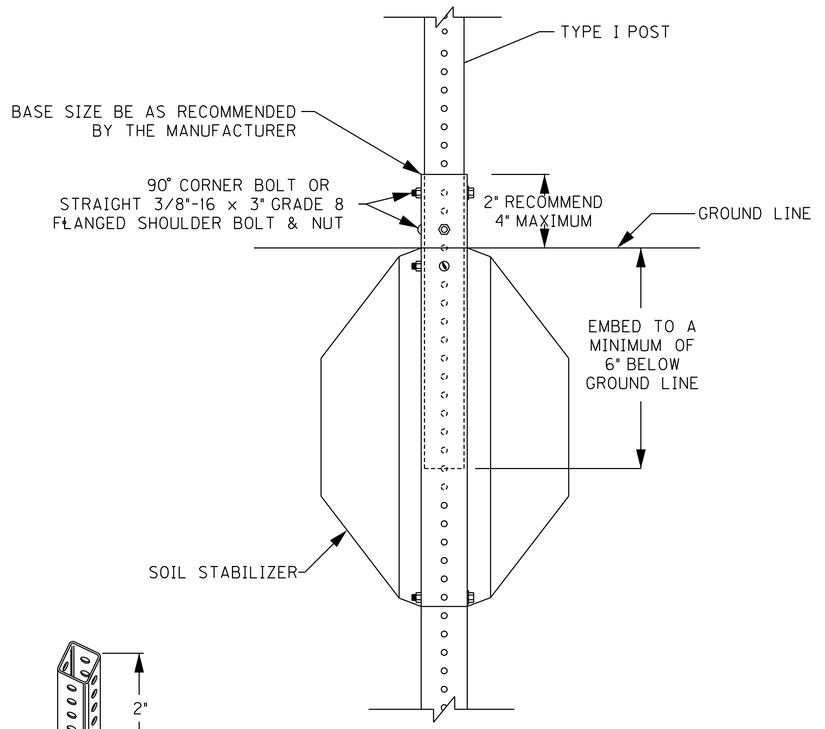
TYPE I
SQUARE TUBING POST
WITH TYPE "D" SUPPORT

TYPE I
SQUARE TUBING POST
WITH SOIL STABILIZER

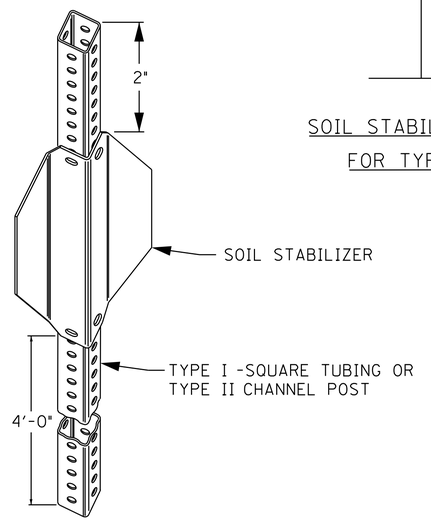


TYPE II
CHANNEL POST
WITH SOIL STABILIZER

FOR OTHER CHANNEL POST BASE DETAILS, SEE SIGNING MISCELLANEOUS DETAIL SHEET



SOIL STABILIZER DETAIL
FOR TYPE I POST



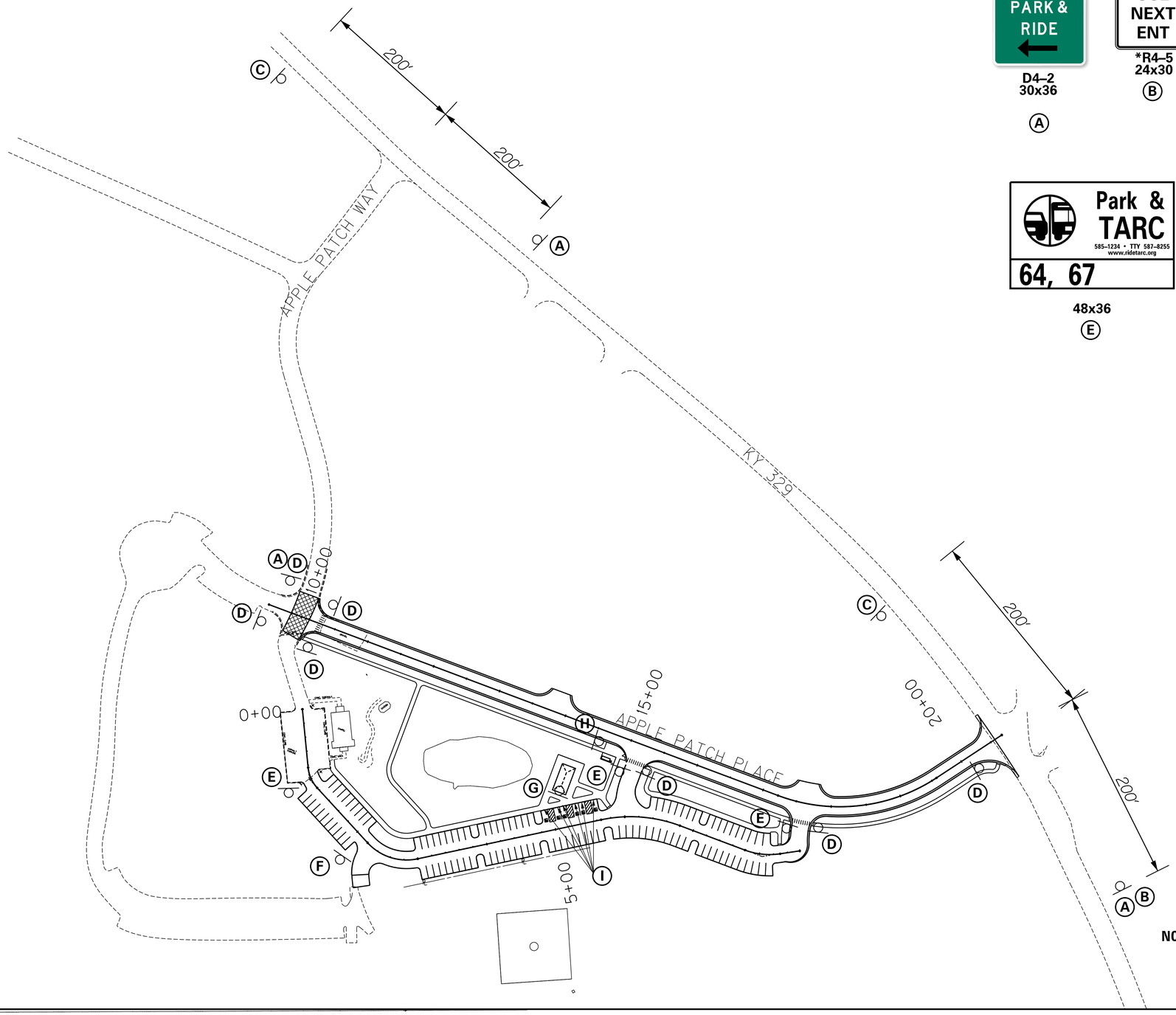
SOIL STABILIZER DETAIL

NOT TO SCALE

SHEETING SIGN DETAIL SHEET 1 OF 2

MicroStation v8.11.7.443
E-SHEET NAME:
USER: terri.combs
DATE PLOTTED: March 21, 2016
FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R19

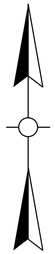


D4–2
30x36
(A)

*R4–5
24x30
(B)

D4–2
30x36
(C)

R1–1
30x30
(D)



48x36
(E)

*R10–19aP
24x18
(F)

OLDAHM COUNTY PARK & RIDE
RULES AND REGULATIONS

NO CAMPING, LOITERING OR VENDING

CARS & LIGHT WEIGHT TRUCKS ONLY (WEIGHT LIMT 5 TONS)

UNAUTHORIZED VEHICLES AND VEHICLES WITH "FOR SALE" SIGNS ARE NOT PERMITTED ON THIS FACILITY AND WILL BE REMOVED AT OWNERS EXPENSE

PARKING AREA AVAILABLE TO CAR POOL, VANPOOL, BICYCLE AND TRANSIT CUSTOMERS

PARK ONLY IN DESIGNATED SPACES. VEHICLES BLOCKING ACCESS LANES, ENTRANCES, EXITS OR OTHER VEHICLES LEFT UNATTENDED FOR OVER 48 HOURS WILL BE REMOVED AT OWNER'S EXPENSE

OLDHAM COUNTY AND TARC ARE NOT RESPONSIBLE FOR ANY LOSS, THEFT OR DAMAGE TO A VEHICLE OR ITS CONTENTS

FOR EMERGENCY CALL 911
FOR MAINTENANCE OR SECURITY CONCERNS CALL 502-222-0111
FOR RIDESHARE INFO CALL TARC 502-585-1234

60x48
(G)

TARC STD SIGNAGE
12x18
(H)

R7–8 & R7–8a
12x18 & 9x18
(I)

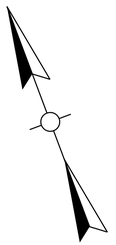
NOTE: SEE SHEET R20B FOR DETAILED LOCATION OF PARKING LOT SIGNS

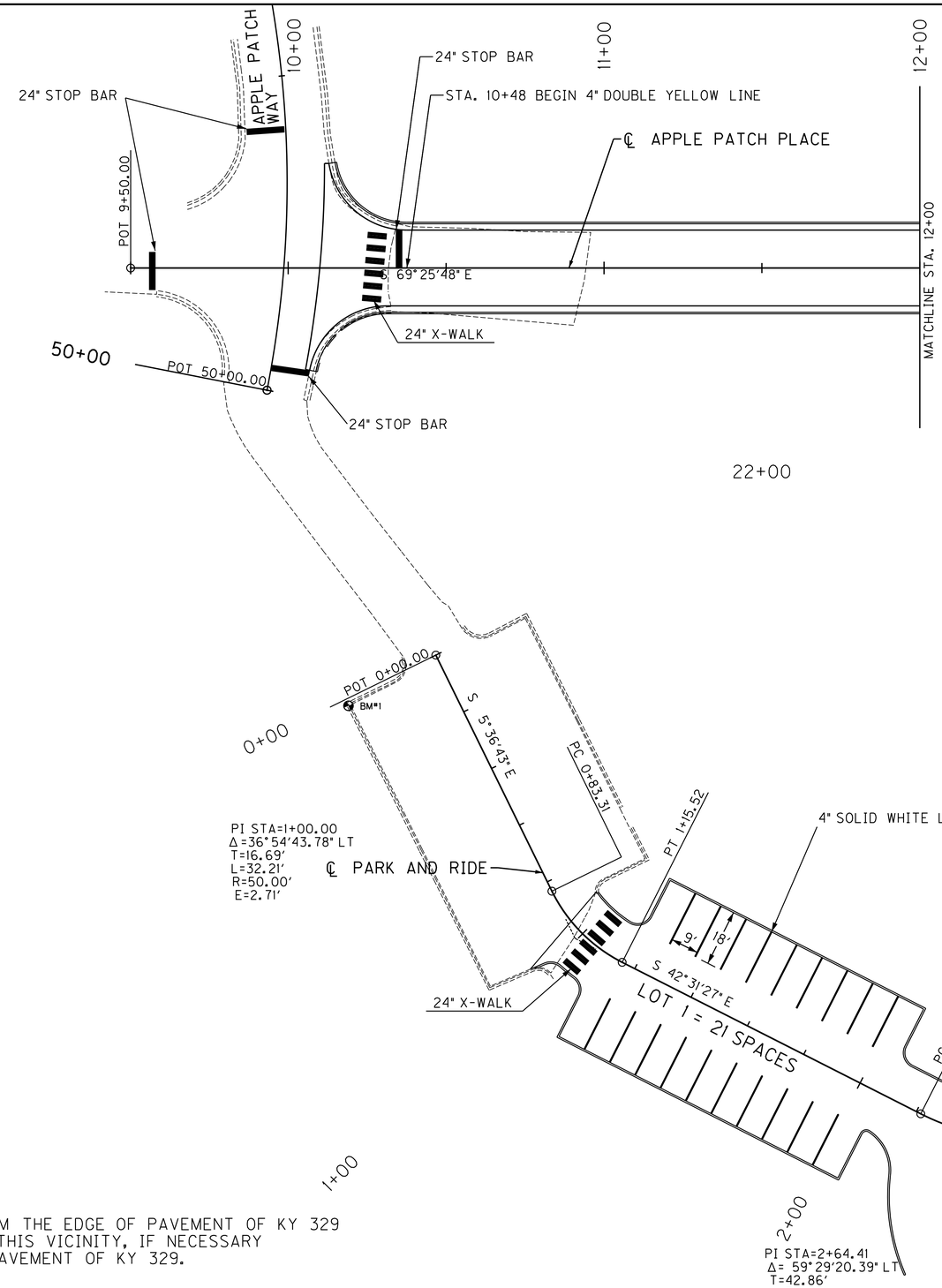
NOT TO SCALE

APPLE PATCH PARK AND RIDE
SIGNING PLAN

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: URS Corporation DATE PLOTTED: July 20, 2017 | FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRAC

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R20





PROPOSED STRIPING APPLE PATCH PLACE			
STATION	LOCATION	TYPE	QUANTITY
10+48 TO 12+00	℄	4" DOUBLE YELLOW LINE	304 LF

PROPOSED STRIPING PARK & RIDE			
STATION	LOCATION	TYPE	QUANTITY
1+17	RT	4" SOLID WHITE LINE	18 LF
1+26	RT	4" SOLID WHITE LINE	18 LF
1+35	RT	4" SOLID WHITE LINE	18 LF
1+44	RT	4" SOLID WHITE LINE	18 LF
1+53	RT	4" SOLID WHITE LINE	18 LF
1+62	RT	4" SOLID WHITE LINE	18 LF
1+71	RT	4" SOLID WHITE LINE	18 LF
1+80	RT	4" SOLID WHITE LINE	18 LF
1+89	RT	4" SOLID WHITE LINE	18 LF
1+98	RT	4" SOLID WHITE LINE	18 LF
1+26	LT	4" SOLID WHITE LINE	18 LF
1+35	LT	4" SOLID WHITE LINE	18 LF
1+44	LT	4" SOLID WHITE LINE	18 LF
1+53	LT	4" SOLID WHITE LINE	18 LF
1+62	LT	4" SOLID WHITE LINE	18 LF
1+71	LT	4" SOLID WHITE LINE	18 LF
1+80	LT	4" SOLID WHITE LINE	18 LF
1+89	LT	4" SOLID WHITE LINE	18 LF
1+98	LT	4" SOLID WHITE LINE	18 LF

PROPOSED STRIPING APPLE PATCH WAY			
STATION	LOCATION	TYPE	QUANTITY
50+08	RT	PAVE MARK STOP BAR-24 IN PAINT	12 LF
50+83	LT	PAVE MARK STOP BAR-24 IN PAINT	12 LF

PROPOSED STRIPING APPLE PATCH PLACE			
STATION	LOCATION	TYPE	QUANTITY
9+58	RT	PAVE MARK STOP BAR-24 IN PAINT	12 LF
10+35	LT	PAVE MARK STOP BAR-24 IN PAINT	12 LF
10+27	LT/RT	PAVE MARK X-WALK-24 IN THERMO	36 LF

PROPOSED STRIPING PARK AND RIDE			
STATION	LOCATION	TYPE	QUANTITY
1+04	LT/RT	PAVE MARK X-WALK-24 IN THERMO	36 LF

NOTE: A 24" STOP BAR (12 LF) WILL BE INSTALLED 21 FT FROM THE EDGE OF PAVEMENT OF KY 329 ON APPLE PATCH WAY. THERE IS AN EXISTING STOP SIGN IN THIS VICINITY, IF NECESSARY THE SIGN WILL BE RELOCATED TO 21 FT FROM THE EDGE OF PAVEMENT OF KY 329.

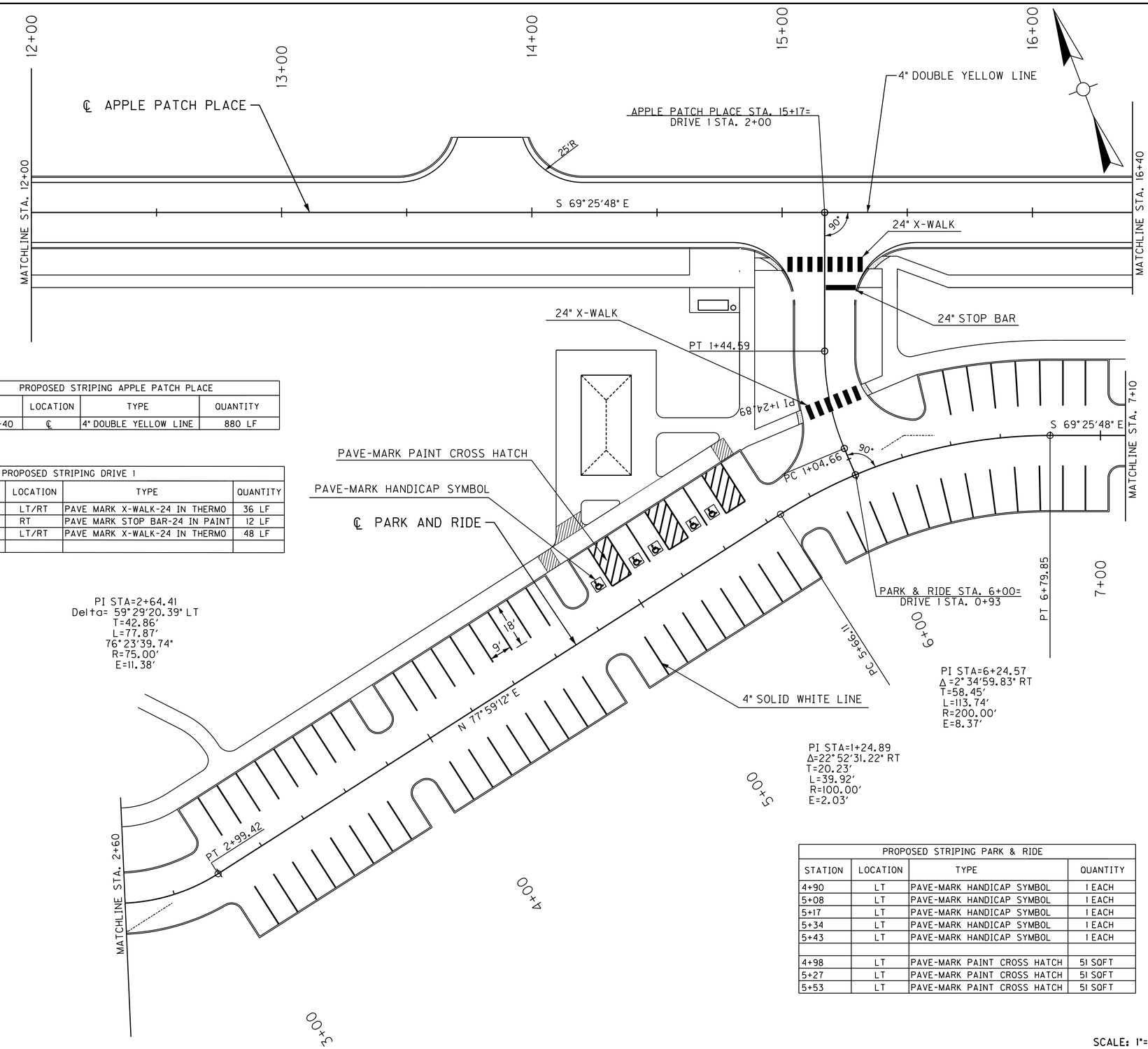
0' 20' 40' 80'

SCALE: 1"=20'

PARK & RIDE AT APPLE PATCH STRIPING PLAN STA. 9+50 TO STA. 12+00

FILE NAME: 0:\PROJECT\O\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: ****
DATE PLOTTED: January 30, 2017
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R20A



PROPOSED STRIPING APPLE PATCH PLACE			
STATION	LOCATION	TYPE	QUANTITY
12+00 TO 16+40	℄	4" DOUBLE YELLOW LINE	880 LF

PROPOSED STRIPING DRIVE 1			
STATION	LOCATION	TYPE	QUANTITY
1+23	LT/RT	PAVE MARK X-WALK-24 IN THERMO	36 LF
1+70	RT	PAVE MARK STOP BAR-24 IN PAINT	12 LF
1+80	LT/RT	PAVE MARK X-WALK-24 IN THERMO	48 LF

PROPOSED STRIPING PARK & RIDE			
STATION	LOCATION	TYPE	QUANTITY
4+90	LT	PAVE-MARK HANDICAP SYMBOL	1 EACH
5+08	LT	PAVE-MARK HANDICAP SYMBOL	1 EACH
5+17	LT	PAVE-MARK HANDICAP SYMBOL	1 EACH
5+34	LT	PAVE-MARK HANDICAP SYMBOL	1 EACH
5+43	LT	PAVE-MARK HANDICAP SYMBOL	1 EACH
4+98	LT	PAVE-MARK PAINT CROSS HATCH	51 SQFT
5+27	LT	PAVE-MARK PAINT CROSS HATCH	51 SQFT
5+53	LT	PAVE-MARK PAINT CROSS HATCH	51 SQFT

PROPOSED STRIPING PARK & RIDE			
STATION	LOCATION	TYPE	QUANTITY
3+09	RT	4" SOLID WHITE LINE	18 LF
3+18	RT	4" SOLID WHITE LINE	18 LF
3+27	RT	4" SOLID WHITE LINE	18 LF
3+36	RT	4" SOLID WHITE LINE	18 LF
3+45	RT	4" SOLID WHITE LINE	18 LF
3+54	RT	4" SOLID WHITE LINE	18 LF
3+63	RT	4" SOLID WHITE LINE	18 LF
3+72	RT	4" SOLID WHITE LINE	18 LF
4+01.5	RT	4" SOLID WHITE LINE	18 LF
4+10.5	RT	4" SOLID WHITE LINE	18 LF
4+19.5	RT	4" SOLID WHITE LINE	18 LF
4+28.5	RT	4" SOLID WHITE LINE	18 LF
4+37.5	RT	4" SOLID WHITE LINE	18 LF
4+46.5	RT	4" SOLID WHITE LINE	18 LF
4+55.5	RT	4" SOLID WHITE LINE	18 LF
4+64.5	RT	4" SOLID WHITE LINE	18 LF
4+94	RT	4" SOLID WHITE LINE	18 LF
5+03	RT	4" SOLID WHITE LINE	18 LF
5+12	RT	4" SOLID WHITE LINE	18 LF
5+21	RT	4" SOLID WHITE LINE	18 LF
5+30	RT	4" SOLID WHITE LINE	18 LF
5+39	RT	4" SOLID WHITE LINE	18 LF
5+48	RT	4" SOLID WHITE LINE	18 LF
5+57	RT	4" SOLID WHITE LINE	18 LF
5+90.6	RT	4" SOLID WHITE LINE	18 LF
6+01.2	RT	4" SOLID WHITE LINE	18 LF
6+11.8	RT	4" SOLID WHITE LINE	18 LF
6+22.4	RT	4" SOLID WHITE LINE	18 LF
6+33	RT	4" SOLID WHITE LINE	18 LF
6+43.6	RT	4" SOLID WHITE LINE	18 LF
6+54.1	RT	4" SOLID WHITE LINE	18 LF
6+64.7	RT	4" SOLID WHITE LINE	18 LF
6+75.3	RT	4" SOLID WHITE LINE	18 LF
6+85	RT	4" SOLID WHITE LINE	18 LF
6+94	RT	4" SOLID WHITE LINE	18 LF
3+09	LT	4" SOLID WHITE LINE	18 LF
3+18	LT	4" SOLID WHITE LINE	18 LF
3+27	LT	4" SOLID WHITE LINE	18 LF
3+36	LT	4" SOLID WHITE LINE	18 LF
3+45	LT	4" SOLID WHITE LINE	18 LF
3+54	LT	4" SOLID WHITE LINE	18 LF
3+63	LT	4" SOLID WHITE LINE	18 LF
3+72	LT	4" SOLID WHITE LINE	18 LF
4+01.5	LT	4" SOLID WHITE LINE	18 LF
4+10.5	LT	4" SOLID WHITE LINE	18 LF
4+19.5	LT	4" SOLID WHITE LINE	18 LF
4+28.5	LT	4" SOLID WHITE LINE	18 LF
4+37.5	LT	4" SOLID WHITE LINE	18 LF
4+46.5	LT	4" SOLID WHITE LINE	18 LF
4+55.5	LT	4" SOLID WHITE LINE	18 LF
4+64.5	LT	4" SOLID WHITE LINE	18 LF
4+94	LT	4" SOLID WHITE LINE	18 LF
5+03	LT	4" SOLID WHITE LINE	18 LF
5+12	LT	4" SOLID WHITE LINE	18 LF
5+21	LT	4" SOLID WHITE LINE	18 LF
5+30	LT	4" SOLID WHITE LINE	18 LF
5+39	LT	4" SOLID WHITE LINE	18 LF
5+48	LT	4" SOLID WHITE LINE	18 LF
5+57	LT	4" SOLID WHITE LINE	18 LF
6+42.3	LT	4" SOLID WHITE LINE	18 LF
6+50.8	LT	4" SOLID WHITE LINE	18 LF
6+59.2	LT	4" SOLID WHITE LINE	18 LF
6+67.7	LT	4" SOLID WHITE LINE	18 LF
6+76.2	LT	4" SOLID WHITE LINE	18 LF
6+85	LT	4" SOLID WHITE LINE	18 LF
6+94	LT	4" SOLID WHITE LINE	18 LF

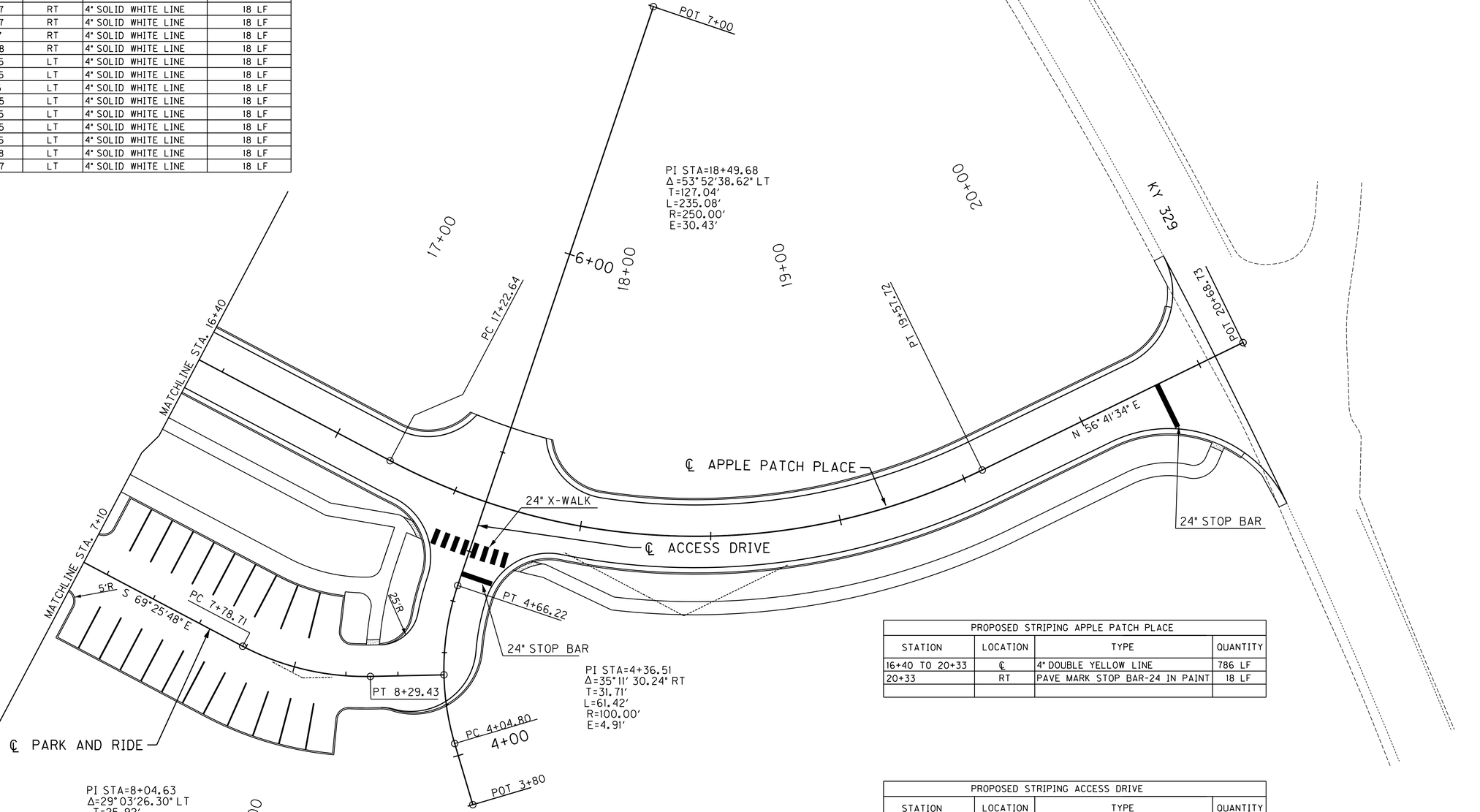
SCALE: 1"=20'

PARK AND RIDE AT APPLE PATCH STRIPING PLAN STA. 12+00 TO STA. 16+40

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: **** DATE PLOTTED: February 9, 2017 | FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SETNROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R21

PROPOSED STRIPING PARK & RIDE			
STATION	LOCATION	TYPE	QUANTITY
7+23.5	RT	4" SOLID WHITE LINE	18 LF
7+32.5	RT	4" SOLID WHITE LINE	18 LF
7+41.5	RT	4" SOLID WHITE LINE	18 LF
7+50.5	RT	4" SOLID WHITE LINE	18 LF
7+59.5	RT	4" SOLID WHITE LINE	18 LF
7+68.5	RT	4" SOLID WHITE LINE	18 LF
7+77.5	RT	4" SOLID WHITE LINE	18 LF
7+85.7	RT	4" SOLID WHITE LINE	18 LF
7+93.7	RT	4" SOLID WHITE LINE	18 LF
8+01.7	RT	4" SOLID WHITE LINE	18 LF
8+09.8	RT	4" SOLID WHITE LINE	18 LF
7+23.5	LT	4" SOLID WHITE LINE	18 LF
7+32.5	LT	4" SOLID WHITE LINE	18 LF
7+41.5	LT	4" SOLID WHITE LINE	18 LF
7+50.5	LT	4" SOLID WHITE LINE	18 LF
7+59.5	LT	4" SOLID WHITE LINE	18 LF
7+68.5	LT	4" SOLID WHITE LINE	18 LF
7+77.5	LT	4" SOLID WHITE LINE	18 LF
7+89.8	LT	4" SOLID WHITE LINE	18 LF
8+02.7	LT	4" SOLID WHITE LINE	18 LF



PROPOSED STRIPING APPLE PATCH PLACE			
STATION	LOCATION	TYPE	QUANTITY
16+40 TO 20+33	℄	4" DOUBLE YELLOW LINE	786 LF
20+33	RT	PAVE MARK STOP BAR-24 IN PAINT	18 LF

PROPOSED STRIPING ACCESS DRIVE			
STATION	LOCATION	TYPE	QUANTITY
4+80	LT/RT	PAVE MARK X-WALK-24 IN THERMO	48 LF
4+72	RT	PAVE MARK STOP BAR-24 IN PAINT	12 LF

0' 20' 40' 80'

SCALE: 1"=20'

PARK AND RIDE AT APPLE PATCH STRIPING PLAN STA. 16+40 TO STA. 20+57

MicroStation v8.11.7.443
E-SHEET NAME:
USER: ****
DATE PLOTTED: Apr 11 24, 2017
FILE NAME: O:\PROJECT\O\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SETNROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R22

TRAFFIC CONTROL GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT STANDARD DRAWINGS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. EXCEPT AS PROVIDED HEREIN, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS. EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC UNTIL COMPLETION OF THE WORK WILL BE PAID AT THE LUMP SUM BID ITEM "MAINTAIN AND CONTROL TRAFFIC".

BARRELS ARE TO BE SPACED NO MORE THAN 20 FEET APART ON KY 329 DURING ALL PHASES OF CONSTRUCTION.

ANY MAJOR CHANGE OR ALTERNATE TEMPORARY TRAFFIC CONTROL PLAN MUST SUBMIT TO THE SAME LEVEL OF TRAFFIC IMPACT ANALYSIS AS WAS REQUIRED FOR THE INITIAL TMP. THE CONTRACTOR WILL NOT BE PERMITTED TO IMPLEMENT ANY PART OF THEIR ALTERNATE PLAN OR REVISION UNTIL THEY HAVE RECEIVED WRITTEN APPROVAL. ALL MAJOR REVISIONS TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL BE REVIEWED BY THE INITIAL SIGNERS TO THE SUBJECT PLAN BEFORE ANY REVISION IS IMPLEMENTED.

PUBLIC INFORMATION PLAN (PIP)

OLDHAM COUNTY PLANNING WILL INFORM THE MOTORING PUBLIC AND AREA STAKEHOLDERS OF PROJECT INFORMATION INCLUDING MAINTENANCE OF TRAFFIC. OLDHAM COUNTY WILL COORDINATE AND DISSEMINATE TO STAKEHOLDERS AND THE MEDIA APPROPRIATE INFORMATION REGARDING THE CONSTRUCTION PLANS. PRIOR TO CONSTRUCTION, SIGNS SHALL BE IN PLACE AS SHOWN ON THE STANDARD DRAWINGS AND/OR AS DIRECTED BY THE ENGINEER.

SPECIAL NOTES

LOCAL ACCESS AND TEMPORARY ENTRANCES

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE REASONABLE ACCESS, IN THE OPINION OF THE ENGINEER, TO ALL APPROACHES AND ENTRANCES WITHIN THE PROJECT LIMITS.

TEMPORARY LANE CLOSURE

TEMPORARY LANE CLOSURES SHALL NOT BE PERMITTED DURING PEAK TRAFFIC HOURS BETWEEN THE HOURS OF 6:00 A.M. AND 9:00 A.M. AND 3:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY ON KY 329. PRIOR TO INSTALLING ANY TEMPORARY LANE CLOSURE THE CONTRACTOR SHALL GIVE A MINIMUM OF 10 DAYS NOTICE AND APPROVAL MUST BE OBTAINED FROM THE ENGINEER.

FAILURE TO COMPLETE WORK ON TIME

FOR EACH CALENDAR DAY BEYOND THE 180 CONSECUTIVE CALENDAR DAYS TO COMPLETE THE WORK, THE DEPARTMENT WILL ASSESS LIQUIDATED DAMAGES PER SECTION 108.09 OF THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LWC WATER TOWER

THE CONTRACTOR SHALL BE IN COORDINATION WITH THE LOUISVILLE WATER COMPNAY (LWC) PRIOR TO ANY CONSTRUCTION TAKING PLACE. THE CONTRACTOR WILL COORDINATE CONSTRUCTION WITH THE RELEASE OF WATER FROM THE WATER TOWER ADJACENT TO THE SITE. (LWC PERIODICALLY EMPTIES THE TOWER AND THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH LWC DURING CONSTRUCTION.)

PROJECT PHASING & CONSTRUCTION PROCEDURES

TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE PLANS, THESE NOTES, AND SECTION 112 (CURRENT EDITION) OF THE KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE LANE OPEN ON KY 329 EASTBOUND. THE LANE SHALL HAVE A MINIMUM WIDTH OF TWELVE (12) FEET.

PHASE 1:

PRIOR TO ANY CONSTRUCTION PLACE EROSION CONTROL DEVICES SO THAT DISTURBED SEDIMENT DOES NOT LEAVE THE PROJECT SITE. TRAFFIC WILL BE MAINTAINED ON EXISTING KY 329.

FLAGGERS FOR TEMPORARY LANE CLOSURE(S) WILL BE PRESENT BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. MONDAY THROUGH FRIDAY. TWO LANES OF TRAFFIC ON KY 329 WILL BE MAINTAINED AT ALL OTHER TIMES.

STEP 1:

- INSTALL CONSTRUCTION SIGNS THROUGHOUT THE PROJECT AREA PER APPLICABLE STANDARD DRAWINGS AND/OR AS DIRECTED BY THE ENGINEER.

- STEP 2:
  PLACE CHANNELIZING DEVICES ON KY 329 AS DIRECTED BY THE ENGINEER.

- STEP 3:
  CONSTRUCT FULL DEPTH PAVEMENT, CURB, DRAINAGE STRUCTURES, SIDEWALK, SIDEWALK RAMPS, FINAL STRIPING, AND FINAL PAVEMENT SURFACE, ETC., AS INDICATED ON THE CONSTRUCTION PLANS.

PARK AND RIDE AT APPLE PATCH
TMP PLAN
NOTES

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: terri_combs | DATE PLOTTED: November 12, 2014 | FILE NAME: R00220OMT.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R23

EROSION CONTROL NOTES

ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UP GRADIENT AREAS NOT DISTURBED (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL SUCH AS TEMPORARY MULCH.(ACRES).
- THE USE OF TEMPORARY MULCH IS ENCOURAGED.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEVICE USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOW EXIST, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE AFOREMENTED SILT BASIN OR TRAPS.

THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND SECTION ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE (Month), (Year) LETTING.

EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER THEY BECOME ONE- HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE SECTION ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE SECTION ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.

EROSION CONTROL LEGEND

SILT TRAP TYPE A ALTERNATE 1	A
SILT TRAP TYPE A ALTERNATE 2	A
SILT TRAP TYPE B	
SILT TRAP TYPE C	
SILT FENCE	SF
TEMPORARY SILT DITCH	
DISTURBED DRAINAGE AREA	
OVERLAND SHEET FLOW	
PROPOSED R/W	
PROPOSED EASEMENT	

FOR EROSION CONTROL ONLY

NOT TO SCALE

DESIGNED BY:

DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

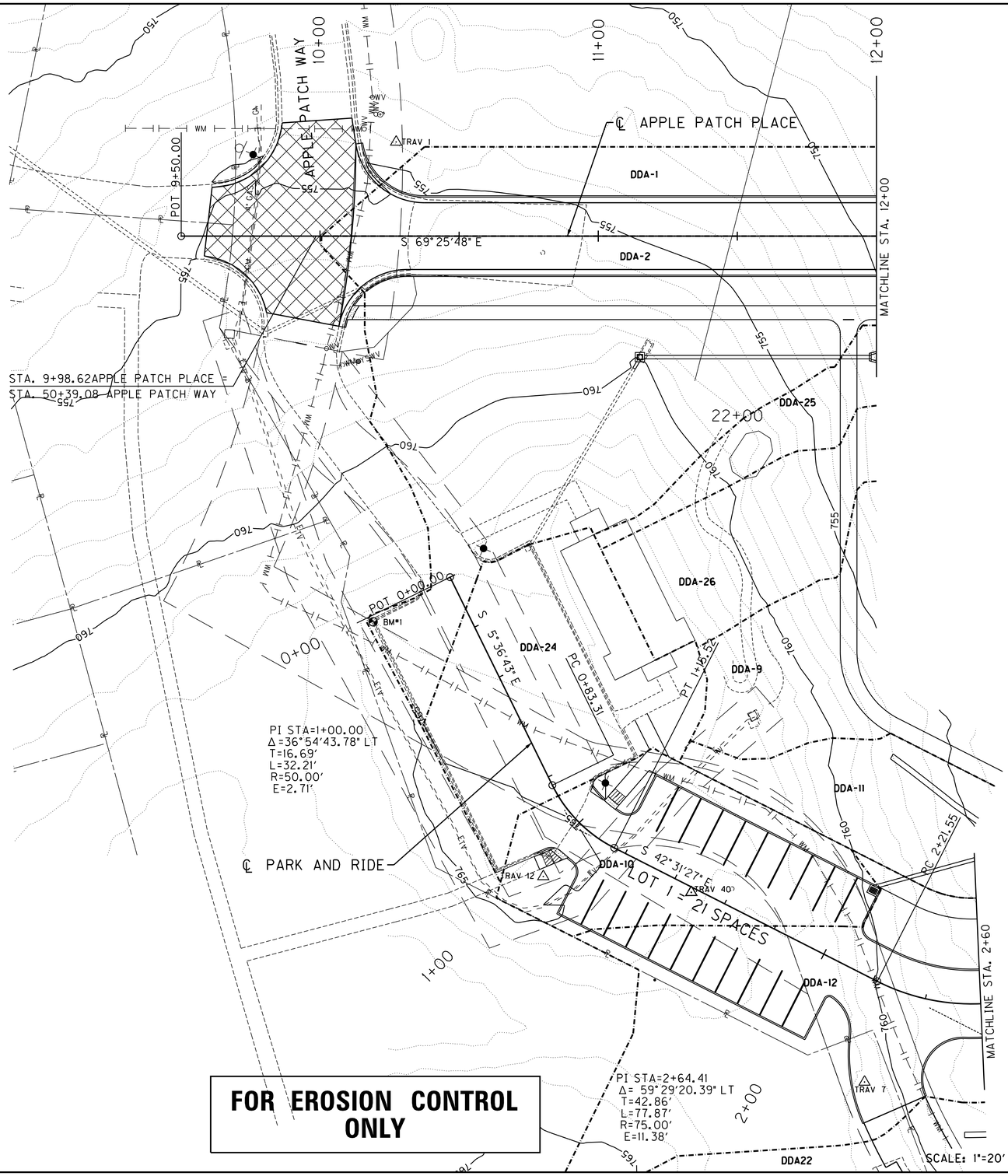
OLDHAM

PROJECT NUMBERS: CM 3001 407/421

PARK AND RIDE AT APPLE PATCH
EROSION CONTROL NOTES

MicroStation v8.11.7.443
E-SHEET NAME:
USER: biratu.dadi
DATE PLOTTED: November 12, 2014
FILE NAME: 0:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R24



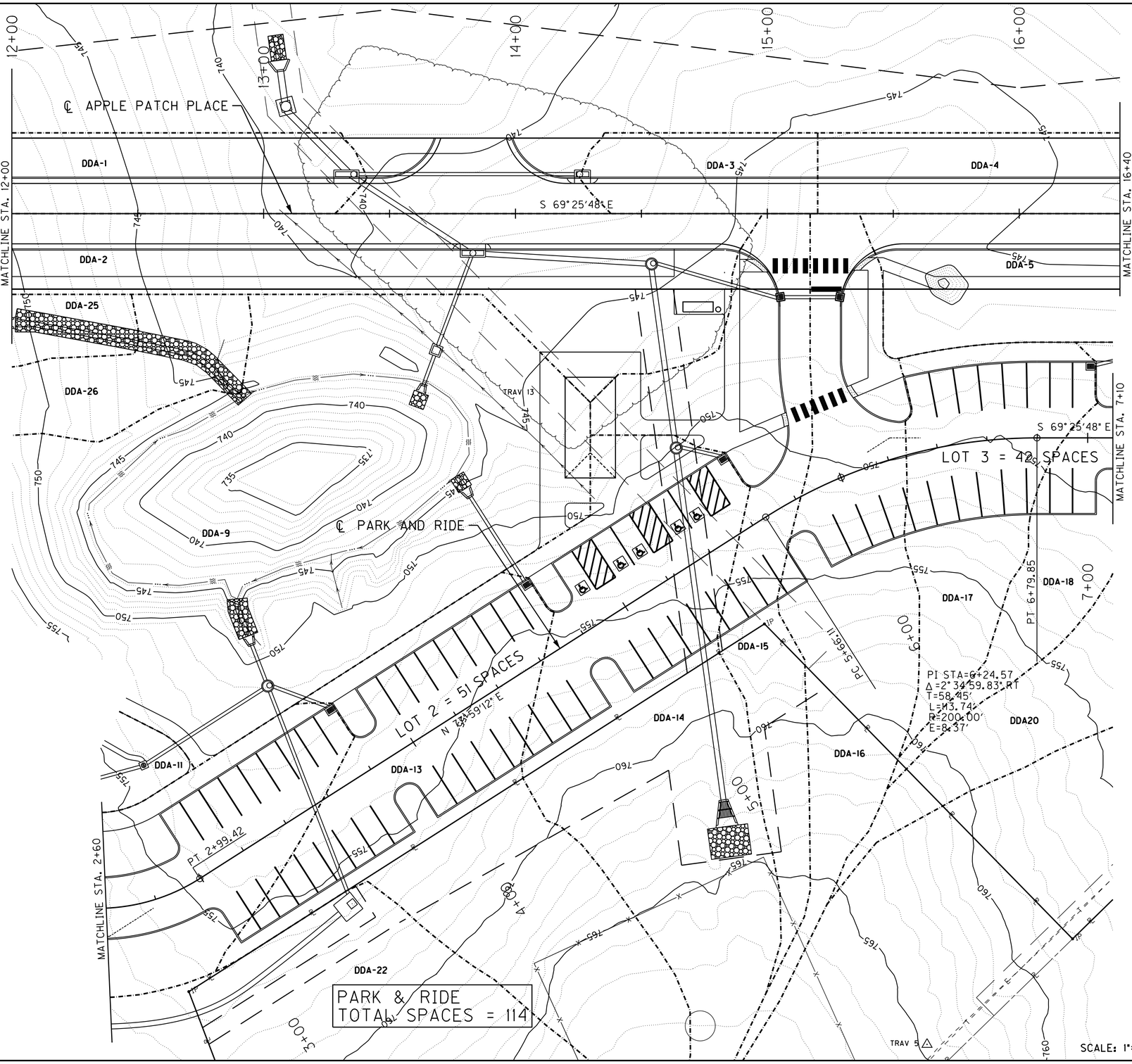
FOR EROSION CONTROL ONLY

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU. FT)
DDA 1	0.23	828
DDA 2	0.66	2376
DDA 9	0.97	3492
DDA 10	0.14	504
DDA 11	0.10	360
DDA 12	0.41	1476
DDA 22	3.03	10908
DDA 24	0.16	576
DDA 25	0.07	252
DDA 26	0.17	612

PARK AND RIDE AT APPLE PATCH
EROSION CONTROL
STA. 10+00 TO STA. 12+00

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: ****
DATE PLOTTED: January 30, 2017
FILE NAME: O:\PROJECT\O\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R25



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 1	0.23	828
DDA 2	0.66	2376
DDA 3	0.97	3492
DDA 4	0.14	504
DDA 5	0.10	360
DDA 9	0.41	1476
DDA 11	3.03	10908
DDA 13	0.16	576
DDA 14	0.07	252
DDA 15	0.17	612
DDA 16	0.24	864
DDA 17	0.16	576
DDA 18	0.19	684
DDA 20	0.26	936
DDA 22	3.03	10908
DDA 25	0.07	252
DDA 26	0.17	612

FOR EROSION CONTROL ONLY

0' 20' 40' 80'

SCALE: 1"=20'

PARK AND RIDE AT APPLE PATCH
EROSION CONTROL
STA. 12+00 TO STA. 16+40

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: ****
DATE PLOTTED: January 30, 2017 | FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SETNROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R26

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU.FT)
DDA 4	0.14	504
DDA 5	0.20	720
DDA 6	0.24	864
DDA 7	0.86	3096
DDA 8	0.46	1656
DDA 18	0.19	684
DDA 20	0.26	936
DDA 21	1.21	4356
DDA 23	3.50	12600

FOR EROSION CONTROL ONLY

PI STA=18+49.68
Δ=53°52'38.62" LT
T=127.04'
L=235.08'
R=250.00'
E=30.43'

PC 17+22.64

PT 19+57.72

STA. 17+62.59 APPLE PATCH PLACE =
STA. 5+00.00 ACCESS DRIVE

STA. 20+68.73 APPLE PATCH PLACE =
KY 329

MATCHLINE STA. 16+40

MATCHLINE STA. 7+10

S 69°25'48" E

PC 7+78.71

PT 8+29.43

PI STA=8+04.63
Δ=29°03'26.30" LT
T=25.92'
L=50.71'
R=100.00'
E=3.30'

N 56°41'34" E

TRAV 4

℄ PARK AND RIDE

℄ APPLE PATCH PLACE

KY 329

DDA-4
DDA-5
DDA-6
DDA-7
DDA-8
DDA-18
DDA-20
DDA-21
DDA-23

SCALE: 1"=20'

PARK AND RIDE AT APPLE PATCH
EROSION CONTROL
STA. 16+40 TO STA. 20+68.73

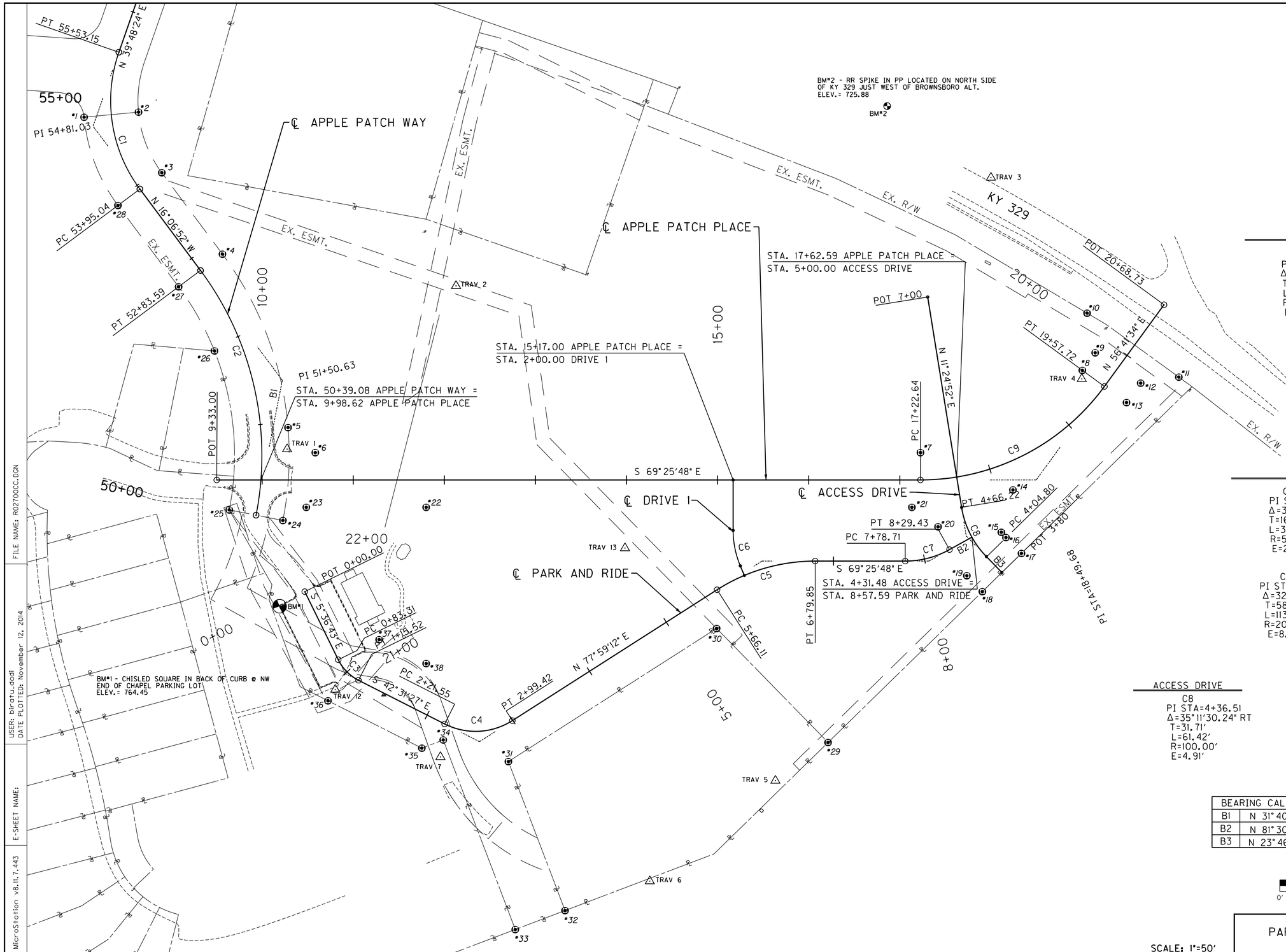
FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SETROAD

USER: ****
DATE PLOTTED: January 30, 2017

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R27



APPLE PATCH WAY

C1
PI STA=54+81.03
Δ=55°55'16.00" RT
T=85.99'
L=158.11'
R=162.00'
E=21.41'

C2
PI STA=51+50.63
Δ=47°47'22.57" LT
T=150.63'
L=283.59'
R=340.00'
E=31.87'

APPLE PATCH PLACE

C9
PI STA=18+49.68
Δ=53°52'38.62" LT
T=127.04'
L=235.08'
R=250.00'
E=30.43'

PARK AND RIDE

C3
PI STA=1+00.00
Δ=36°54'43.78" LT
T=16.69'
L=32.21'
R=50.00'
E=2.71'

C4
PI STA=2+64.41
Δ=59°29'20.39" LT
T=42.86'
L=77.87'
R=75.00'
E=11.38'

C5
PI STA=6+24.57
Δ=32°34'59.83" RT
T=58.45'
L=113.74'
R=200.00'
E=8.37'

C7
PI STA=8+04.63
Δ=29°03'26.30" LT
T=25.92'
L=50.71'
R=100.00'
E=3.30'

ACCESS DRIVE

C8
PI STA=4+36.51
Δ=35°11'30.24" RT
T=31.71'
L=61.42'
R=100.00'
E=4.91'

DRIVE 1

C6
PI STA=1+24.89
Δ=22°52'31.22" RT
T=20.23'
L=39.92'
R=100.00'
E=2.03'

BEARING CALLOUTS	
B1	N 31°40'30" E
B2	N 81°30'46" E
B3	N 23°46'39" W

0' 50' 100' 200'

SCALE: 1"=50'

PARK AND RIDE AT APPLE PATCH
COORDINATE CONTROL (1/2)

FILE NAME: R02700CC.DGN
USER: biratu.dadi
DATE PLOTTED: November 12, 2014
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R28

RIGHT OF WAY MONUMENT POINTS

STATION and OFFSET	ROADWAY	TYPE	DESCRIPTION	State Plane Coordinates	
				NORTH (Y)	EAST (X)
54+83.62, 30.00' LT	Apple Patch Way	3	R/W MONUMENT #1	4016681.1795	4994070.4012
54+83.62, 30.00' RT	Apple Patch Way	3	R/W MONUMENT #2	4016665.4316	4994128.2975
53+95.04, 30.00' RT	Apple Patch Way	3	R/W MONUMENT #3	4016594.1489	4994128.8562
52+83.59, 30.00' RT	Apple Patch Way	3	R/W MONUMENT #4	4016487.0791	4994159.7896
10+28.40, 57.51' LT	Apple Patch Place	3	R/W MONUMENT #5	4016283.5918	4994160.3347
10+58.30, 30.00' LT	Apple Patch Place	3	R/W MONUMENT #6	4016247.3324	4994178.6596
17+22.64, 30.00' LT	Apple Patch Place	3	R/W MONUMENT #7	4016013.9146	4994800.6447
19+57.72, 30.00' LT	Apple Patch Place	3	R/W MONUMENT #8	4016036.0259	4994998.7508
19+81.61, 30.00' LT	Apple Patch Place	3	R/W MONUMENT #9	4016049.1428	4995018.7138
20+11.47, 62.83' LT	Apple Patch Place	1	R/W MONUMENT #10	4016092.9793	4995025.6471
20+14.15, 59.92' RT	Apple Patch Place	1	R/W MONUMENT #11	4015991.8672	4995095.2876
19+84.15, 30.00' RT	Apple Patch Place	3	R/W MONUMENT #12	4016000.3956	4995053.7876
19+57.72, 30.00' RT	Apple Patch Place	3	R/W MONUMENT #13	4015985.8817	4995031.6986
18+15.38, 30.00' RT	Apple Patch Place	3	R/W MONUMENT #14	4015939.9081	4994881.2923
17+92.91, 69.96' RT	Apple Patch Place	3	R/W MONUMENT #15	4015900.8967	4994853.0374
17+95.40, 76.94' RT	Apple Patch Place	3	R/W MONUMENT #16	4015893.7054	4994855.7449
18+03.52, 98.72' RT	Apple Patch Place	3	R/W MONUMENT #17	4015871.3895	4994865.5768
17+67.74, 128.71' RT	Apple Patch Place	3	R/W MONUMENT #18	4015847.1985	4994810.6697
17+58.24, 108.76' RT	Apple Patch Place	3	R/W MONUMENT #19	4015869.5144	4994800.8377
17+38.63, 52.04' RT	Apple Patch Place	3	R/W MONUMENT #20	4015930.8993	4994790.1131
17+13.20, 30.00' RT	Apple Patch Place	3	R/W MONUMENT #21	4015961.0568	4994770.7252
11+80.00, 30.00' RT	Apple Patch Place	3	R/W MONUMENT #22	4016148.3966	4994271.5237
10+48.42, 30.00' RT	Apple Patch Place	3	R/W MONUMENT #23	4016194.6280	4994148.3316
10+22.75, 44.47' RT	Apple Patch Place	3	R/W MONUMENT #24	4016190.0955	4994119.2122
50+00.00, 30.00' LT	Apple Patch Way	3	R/W MONUMENT #25	4016221.6015	4994068.1499
51+94.92, 30.00' LT	Apple Patch Way	3	R/W MONUMENT #26	4016390.7245	4994114.2626
52+83.59, 30.00' LT	Apple Patch Way	3	R/W MONUMENT #27	4016470.4256	4994102.1472
53+95.04, 30.00' LT	Apple Patch Way	3	R/W MONUMENT #28	4016577.4955	4994071.2138
16+21.20, 288.15' RT	Apple Patch Place	3	R/W MONUMENT #29	4015751.6928	4994593.8956
14+98.88, 163.00' RT	Apple Patch Place	3	R/W MONUMENT #30	4015911.8383	4994523.3385
12+70.28, 309.10' RT	Apple Patch Place	3	R/W MONUMENT #31	4015855.3727	4994257.9904
13+32.48, 472.67' RT	Apple Patch Place	3	R/W MONUMENT #32	4015680.3747	4994258.7520
12+77.85, 493.44' RT	Apple Patch Place	3	R/W MONUMENT #33	4015680.1265	4994200.3022
11+98.77, 285.37' RT	Apple Patch Place	3	R/W MONUMENT #34	4015902.7103	4994199.3687
11+75.29, 294.37' RT	Apple Patch Place	3	R/W MONUMENT #35	4015902.5320	4994174.2294
10+72.23, 242.40' RT	Apple Patch Place	3	R/W MONUMENT #36	4015987.4044	4994095.9943
11+28.38, 175.30' RT	Apple Patch Place	3	R/W MONUMENT #37	4016030.4922	4994172.1460
11+80.00, 201.50' RT	Apple Patch Place	3	R/W MONUMENT #38	4015987.8342	4994211.2680

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates			STATION and OFFSET (APPLE PATCH PLACE
		NORTH (Y)	EAST (X)	ELEV. (Z)	
B.M. #1	CHISELED SQUARE	4016103.2120	4994082.7110	764.45	10+19.10, 138.64' Right
B.M. #2	RAILROAD SPIKE	4016382.8580	4994900.0570	725.88	20+65.69, 374.06' Left
TRAV. #1	G.P.S.	4016261.7880	4994151.0570	754.68	10+27.37, 33.84' Left
TRAV. #2	G.P.S.	4016364.3870	4994387.6370	738.97	12+12.82, 213.02' Left
TRAV. #3	IRON PIN AND CAP	4016269.3150	4994979.1750	732.88	20+69.47, 235.72 Left
TRAV. #4	IRON PIN AND CAP	4016027.4200	4994994.9370	-	19+48.94, 24.76' Left
TRAV. #5	IRON PIN AND CAP	4015732.7420	4994525.0570	-	15+63.41, 330.07' Right
TRAV. #6	IRON PIN AND CAP	4015677.8830	4994357.1920	-	14+25.52, 440.42' Right
TRAV. #7	IRON PIN AND CAP	4015886.2780	4994189.9550	-	11+95.73, 304.07' Right
TRAV. #12	IRON PIN AND CAP	4015996.0180	4994107.8120	765.81	10+80.26, 230.18' Right
TRAV. #13	IRON PIN AND CAP	4016029.7184	4994460.1674	744.67	13+98.31, 74.83' Right

APPLE PATCH WAY

DESC.	STA.	BEARING	NORTHING	EASTING
P.O.T.	50+00.00		4016205.8485	4994093.6810
P.I.	51+50.63		4016334.0407	4994172.7771
P.T.	52+83.59	N 16°06'52" W	4016478.7524	4994130.9684
P.C.	53+95.04		4016585.8222	4994100.0350
P.I.	54+81.03		4016668.4372	4994076.1668
P.T.	55+53.15	N 39°48'24" E	4016734.4984	4994131.2199
P.O.T.	57+48.33		4016884.4362	4994256.1728

APPLE PATCH PLACE

DESC.	STA.	BEARING	NORTHING	EASTING
P.O.T.	9+50.00		4016257.2530	4994066.8399
P.C.	17+22.64	S 69°25'48" E	4015985.8273	4994790.1041
P.I.	18+49.68		4015941.1898	4994909.0488
P.T.	19+57.72	N 56°41'34" E	4016010.9538	4995015.2247
P.O.T.	20+68.73		4016071.9098	4995107.9954

PARK AND RIDE

DESC.	STA.	BEARING	NORTHING	EASTING
P.O.T.	0+00.00		4016108.5161	4994114.2383
P.C.	0+83.31	S 5°36'43" E	4016025.6026	4994122.3856
P.I.	1+00.00		4016008.9954	4994124.0175
P.T.	1+15.52		4015996.6971	4994135.2964
P.C.	2+21.55	S 42°31'27" E	4015918.5567	4994206.9597
P.I.	2+64.41		4015886.9719	4994235.9265
P.T.	2+99.42		4015895.8919	4994277.8444
P.C.	5+66.11	N 77°59'12" E	4015951.4003	4994538.6947
P.I.	6+24.57		4015963.5665	4994595.8670
P.T.	6+79.85		4015943.0291	4994650.5927
P.C.	7+78.71	S 69°25'48" E	4015908.2937	4994743.1516
P.I.	8+04.63		4015899.1884	4994767.4144
P.T.	8+29.43		4015903.0132	4994793.0458
P.O.T.	8+57.59	N 81°30'46" E	4015907.1694	4994820.8983

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

Coordinates are based on State Plane Coordinate System Single Zone and in U.S. Survey Feet.

The project Grid Factor is 0.99993934 and was obtained by using the average Grid Factors from the Primary Survey Control over the project area.

BASIS OF ELEVATIONS

Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid03.

NOT TO SCALE

PARK AND RIDE AT APPLE PATCH
COORDINATE CONTROL (2/2)

MicroStation v8.11.7.443
E-SHEET NAME:
USER: terri.combs
DATE PLOTTED: November 12, 2014
FILE NAME: R02800CC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R29

GEOTECHNICAL NOTES

1. Clearing and grubbing of roadway areas shall be completedin accordance with the requirements of Section 202 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction prior to any roadway and/or embankment construction.

2. Removal of existing structures and other obstructions shall be completed in accordance with Section 203 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

3. The Contractor is responsible for conducting any operations necessary (such as construction of temporary drainage ditches, etc.) in order to excavate the cut areas and to build the fill areas to the required typical section. These operations shall be incidental to roadway excavation or embankment-in-place and no additional compensation shall be made for this work.

4. The Contractor shall construct foundation embankment benches as directed by the Engineer, prior to the placement of embankments in areas requiring such benches.

5. Transverse benches shall be constructed and perforated pipe underdrains shall be installed at the following approximate locations and any others designated by the Engineer in accordance with Kentucky Department of Highways Standard Drawings RDP-005 and RDP-006. Contrary to Standard Drawing RDP-006, transverse benches and perforated pipe underdrains shall be installed in both uphill and downhill transition areas between cuts and fills.

Approximate Station	
Park & Ride Lot	Apple Patch Place
Station 1+00	Station 10+20
Station 1+20	Station 11+97
Station 2+10	Station 15+20
Station 3+68	Station 16+15
Station 8+40	Station 18+10
	Station 20+35

6. In accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, the moisture content of embankment material shall not vary from the optimum moisture content, as determined by KM 64-511, by more than plus or minus 2 percent. This required moisture content range shall have equal weight with the density requirement when determining the acceptability of embankment construction. Refer to the Family of Curves for moisture/density correlation.

7. All soils, whether from roadway excavation or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for rehandling, hauling, stockpiling, and/or manipulating soils.

8. Procedures shall be performed as required to control erosion and water pollution in accordance with Sections 212 and 213 of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

9. All channel changes and special ditches shall be constructed prior to placement of any embankment materials adjacent to them in accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. At the direction of the Engineer, materials excavated from these areas may be utilized in construction of the embankments, but may require aeration to the proper moisture contents prior to compaction operations. No extra payment shall be permitted for rehandling, hauling, stockpiling and/or manipulating these materials.

10. Any saturated, soft and unstable areas encountered within embankment foundation limits and/or any other areas specified by the Engineer shall be drained and stabilized using a minimum 12-inch-thick lift of No. 2, 3 or 23 Coarse Aggregate meeting the requirements of Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. The Coarse Aggregate shall be wrapped with Type IV Geotextile Fabric in accordance with Sections 214 and 843 of the current Standard Specifications. Positive drainage shall be maintained to prevent trapping water within the roadway embankment. For quantity estimation purposes only, 500 linear feet of roadway may be assumed for this treatment, with an average treatment width of 20 feet. Placement of the material will be paid for with the applicable Coarse Aggregate Bid Item, which includes both obtaining and placing the material. Quantities of Coarse Aggregate placed will not be paid as "Embankment-in-Place".

11. Perforated pipes for subgrade drainage shall be installed at vertical sags in accordance with Standard Drawing RDP-005 at the following approximate locations and/or where designated by the Engineer.

Approximate Station
Apple Patch Place
Station 13+83
Station 19+77

12. The Contractor shall conduct grading operations in such a manner that soil free of rock larger than 4 inches from roadway excavation is stockpiled separately, or otherwise manipulated, so that ample quantities are available for a chemically stabilized roadbed meeting the specifications in Section 208 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. No direct payment will be allowed for such necessary manipulating, stockpiling, hauling, and/or handling of the material.

13. In areas where the chemical stabilization is not feasible (such as crossovers, tie-ins, etc.), a one-foot thick granular subgrade will be required consisting of Kentucky Coarse Aggregate No. 2, No. 3, or No. 23 size stone. The Coarse Aggregate shall be in accordance with the current edition of Section 805 of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. The Coarse Aggregate shall be wrapped with Geotextile Fabric, Type IV, in accordance with Sections 214 and 843 of the current edition of the Standard Specifications. The granular subgrade shall extend from shoulder to shoulder in the fill areas and from ditch line to ditch line in the cut areas to assure positive drainage. The actual locations will be determined by the Engineer during construction. The Coarse Aggregate will be paid by the ton, and will not be paid as "Embankment-in-Place"; the Geotextile Fabric will be paid by the square yard. For purpose of calculating quantities, assume 200 linear feet of roadway for this treatment.

14. Shale (above or below the RDZ, durable or non-durable) cannot be used in the subgrade.

15. If shale bedrock is encountered at the top of subgrade in the cuts, the roadbed shall be undercut two (2) feet below the proposed grade and the limits of the roadbed excavation shall be extended to the ditchlines. The refill shall consist of soil and shall be constructed as specified in Section 204 of the Standard Specifications for Road and Bridge Construction, current edition. Shale cannot be used in the top two (2) feet of the subgrade. For Roadway Excavation projects, the excavation of the shale material shall be paid at the applicable unit bid price (Common Excavation or Rock Excavation) and the placement of soil refill shall be incidental. For Embankment-In-Place projects, the placement of soil refill shall be paid at the unit bid price for Embankment-In-Place and the excavation of the shale material shall be incidental. For either case, no compensation shall be made for the incidental portions of this work.

16. As directed by the Engineer, existing bituminous pavements positioned less than three feet from proposed subgrade level shall be undercut a minimum of two feet beneath proposed subgrade level and backfilled with suitable subgrade material.

17. All open sinkholes and/or solution cavities within the limits of construction, whether shown on the plans or not, that are not used for drainage purposes, shall be filled and/or capped in accordance with Section 215 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Apparent sinkholes/solution features not used for drainage were noted at the following approximate locations

Approximate Station
Apple Patch Place
Station 15+50, 10'Rt.

Park & Ride Lot
Station 4+50, 30'Rt.

18. If sinkholes or solution features are encountered during construction, please contact the Department's Geotechnical Branch for mitigation procedures.

MicroStation v8.11.7.443
E-SHEET NAME:
USER:
PLOTTED:
FILE NAME:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

OLDHAM

PROJECT NUMBERS: CM 3001 407/421

GEOTECHNICAL NOTES

GEOTECHNICAL SYMBOLS

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R30

AASHTO Classification of Soils and Soil-Aggregate Mixtures

General Classification	Granular Materials (35% or less passing 0.075 mm)							Silt-Clay Materials (More than 35% passing 0.075 mm)			
Group Classification	A-1		A-3	A-2				A-4	A-5	A-6	A-7
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6
Sieve Analysis, Percent Passing											
2.00 mm (No. 10)	50 max	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
0.425 mm (No. 40)	30 max	50 max	51 min	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
0.075 mm (No. 200)	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
Characteristics of Fraction Passing 0.425 mm (No. 40)											
Liquid Limit	- - -		- - -	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min
Plasticity Index	6 max		N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min

AI	Activity Index
LI	Liquidity Index
S+C	Silt + Clay (% finer than No.200 Sieve)
○	Rockline Soundings
◒	Disturbed Sample Boring
◎	Undisturbed Sample Boring
⊙	Undisturbed Sample Boring & Rock Core
●	Rock Core
	Slope Inclinometer Installation typical applications:
OW	Observation Well
➡	Approximate Footing Elevation
▼ (Date)	Water Elevation

VS (psf)	Field Vane Shear Strength
■	Thin-walled Tube Sample
<	Standard Penetration Test Sample
N	Penetration Resistance
Qu (psf)	Unconfined Compressive Strength
UU (psf)	Unconsolidated Undrained Triaxial Strength
w%	Moisture Content
KY RQD	Rock Quality Designation (Kentucky Method)
STD RQD	Rock Quality Designation (Standard Method)
SDI(JS)	Slake Durability Index (Jar Slake Test)
REC	Core Recovery
ϕ	Angle of Internal Friction (Total Stress)
$\overline{\phi}$	Angle of Internal Friction (Effective Stress)
c (psf)	Cohesion (Total Stress)
$\overline{c}$ (psf)	Cohesion (Effective Stress)
γ (pcf)	Total Unit Weight
RDZ	Rock Disintegration Zone
OB	Overburden Bench
IB	Intermediate Bench
R	Refusal
NR	Refusal Not Encountered

Unified Soil Classifications

MAJOR DIVISIONS		SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel-sand mixtures, little or no fines.
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GM	Silty gravels, gravel-sand-silt mixtures.
		GC	Clayey gravels, gravel-sand-clay mixtures.
	SAND AND SANDY SOILS	SW	Well graded sands or gravelly sands, little or no fines.
		SP	Poorly graded sands or gravelly sands, little or no fines.
		SM	Silty sands, sand-silt mixtures.
		SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS	SILTS AND CLAYS LL IS LESS THAN 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays silty clays, lean clays.
		ML-CL	Silty clay-silty clay with sand and or gravel, sandy silty clay, sandy silty clay with gravel, gravelly silty clay, gravelly silty clay with sand
	SILTS AND CLAYS LL IS GREATER THAN 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
		CH	Inorganic clays of high plasticity, fat clays.

Unified Soil Classifications - Continued

MAJOR DIVISIONS		SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GP-GC	Poorly graded gravel with clay (or silty clay), poorly graded gravel with clay and sand (or silty clay & sand)
		GP-GM	Poorly graded gravel with silt, poorly graded gravel with silt and sand
		GW-GC	Well graded gravel with clay (or silty clay), well graded gravel with clay and sand (or silty clay and sand)
		GW-GM	Well graded gravel with silt, well graded gravel with silt and sand
		GC-GM	Silty clayey gravel, silty clayey gravel with sand
	SAND AND SANDY SOILS	SW-SC	Well graded sand with clay (or silty clay), well graded sand with clay and gravel (or silty clay & gravel)
		SP-SC	Poorly graded sand with clay (or silty clay), poorly graded sand with clay and gravel (or silty clay and gravel)
		SP-SM	Poorly graded sand with silt, poorly graded sand with silt and gravel
		SC-SM	Silty clayey sand, silty clayey sand with gravel
		SW-SM	Well graded sand with silt, well graded sand with silt and gravel
UNCLASSIFIED MATERIAL		OH	Organic (High Plasticity)
		OL	Organic (Low Plasticity)

LIMESTONE	TALUS, MINE WASTE, FILL MATERIAL, BOULDERS, & ETC.
SANDSTONE	COAL
DURABLE SHALE (SDI ≥ 95)	DOLOMITE
NONDURABLE SHALE (SDI < 95)	LIMESTONE (ARGILLACEOUS)
GRANULAR EMBANKMENT	SLOPE PROTECTION
STRUCTURE GRANULAR BACKFILL	

GEOTECHNICAL SYMBOL SHEET

FILE NAME:
USER:
DATE
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R31

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 10+20

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 11+97

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 15+20

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 16+15

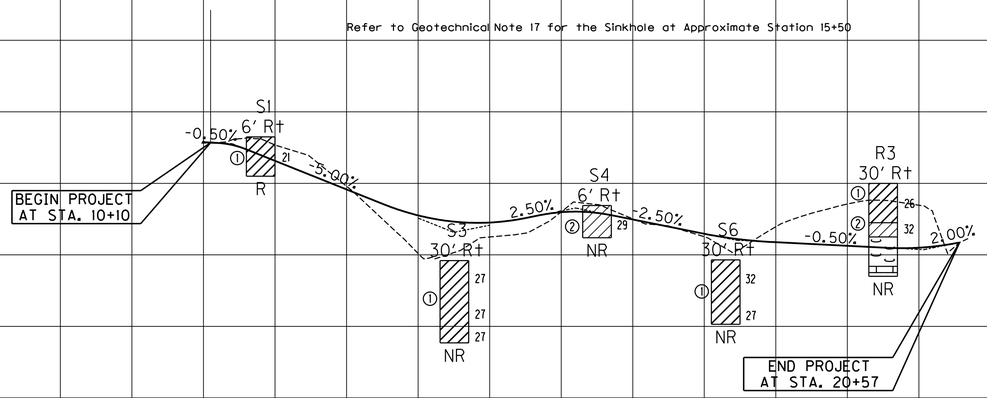
Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 18+10

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 20+35

Refer to Geotechnical Note 11 for Construction of Perforated Pipe Underdrains at Approximate Station 13+83

Refer to Geotechnical Note 11 for Construction of Perforated Pipe Underdrains at Approximate Station 19+77

Refer to Geotechnical Note 17 for the Sinkhole at Approximate Station 15+50



APPLE PATCH PLACE

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 1+00

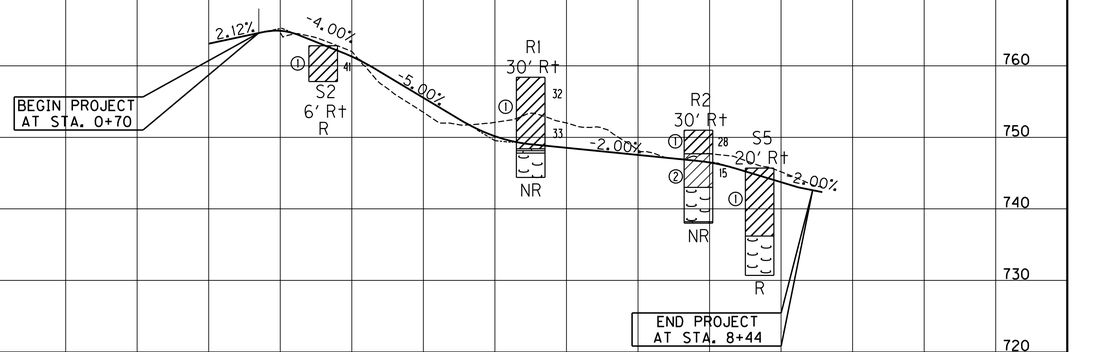
Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 1+20

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 2+10

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 3+68

Refer to Geotechnical Note 5 for Construction of Transverse Benches at Approximate Station 8+40

Refer to Geotechnical Note 17 for the Sinkhole at Approximate Station 4+50



PARK AND RIDE LOT

NOTES:
1. This sheet presents geotechnical data and recommendations. Refer to projet plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface Elevations are referenced to Mean Sea Level.

Field Drilling and Sampling were performed on March 6, 2013

Detailed data and interpretation of subsurface conditions encountered in individual borings are shown on the soil profile. Soil and rock strata discriptions and indicated boundaries are based on engineering interpretation of available subsurface information obtained at selected locations, and may not necessarily reflect the actual variation in subsurface conditions between borings and samples.

The observed water levels and/or subsurface conditions indicated on the soil profile are as recorded at the time of exploration. These water levels and/or subsurface conditions may vary considerable with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the exploration program.

NOTICE - Without regard to the materials encountered, all roadway and drainage excavation shall be unclassified and shall be designated as Roadway Excavation. It shall be distinctly understood that any reference to rock, earth or any other materials on the plans or cross sections whether in numbers, words, letters, or lines, is solely for the Department's information and is not to be taken as an indication of classified excavation or the quantity of either rock, earth or any other material involved.

The bidder must draw his own conclusions as to the conditions to be encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation when the materials encountered are not in accord with the classification shown

SAMPLE NO.		1	2
STATION		6+85/19+50	6+85/19+50
OFFSET		30' RT	30' RT
DEPTH		0.0-4.0	4.0-7.0
COMPOSITION OF TOTAL SAMPLE	GRAVEL (- 3" + NO. 10)	-	-
	SAND (- NO 10 + NO. 200)	-	-
	SILT (- 0.075 mm + 0.002 mm)	-	-
	CLAY (- 0.002 mm)	-	-
LIQUID LIMIT		54	45
PLASTIC LIMIT		28	21
PLASTICITY INDEX		26	24
ACTIVITY INDEX		-	-
SPECIFIC GRAVITY		2.7	2.7
AASHTO CLASSIFICATION		-	-
UNIFIED CLASSIFICATION		CH	CL
CALIFORNIA BEARING RATIO		3.5	1.4
MAXIMUM DRY DENSITY (pcf)		107.7	110.4
OPTIMUM MOISTURE (%)		18.5	14.4
% +4.75mm MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	-

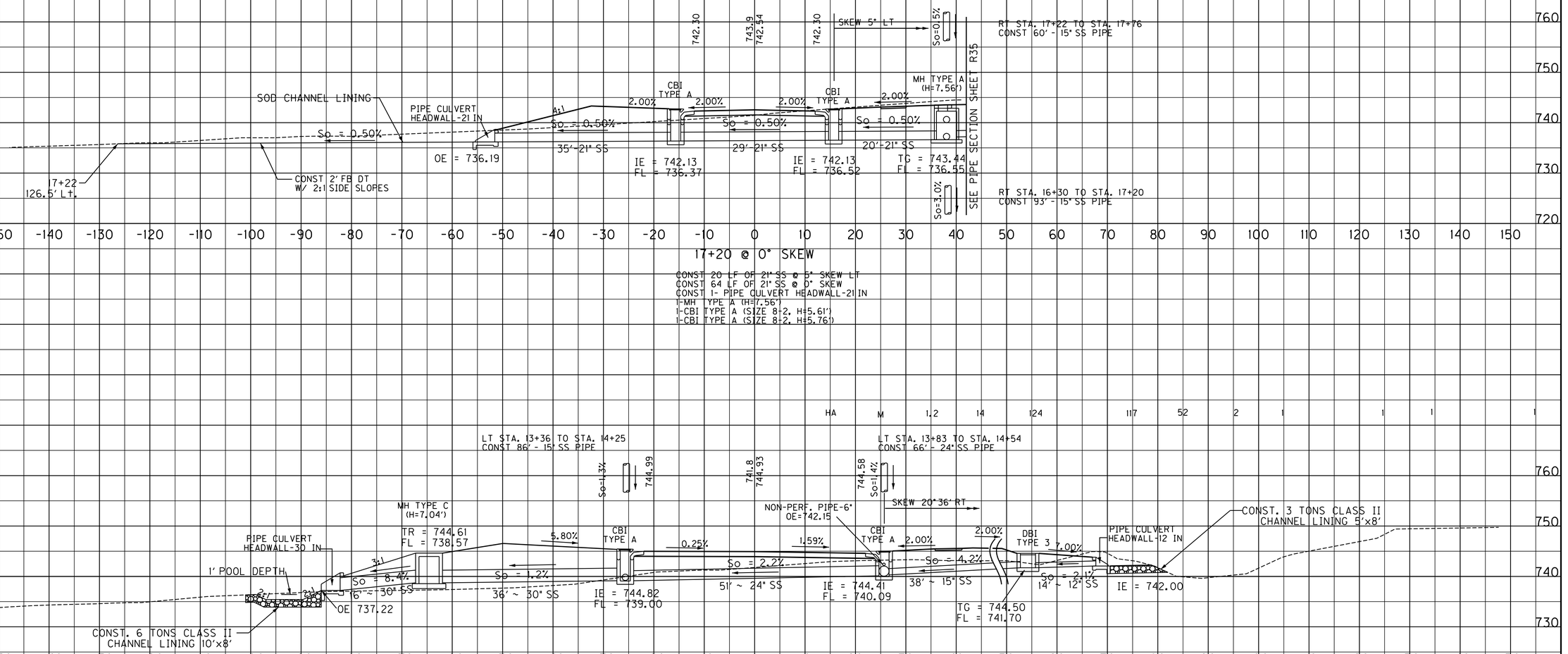
SCALE: 1" = 10' HORIZONTAL
1" = 100' VERTICAL

SOIL PROFILE
APPLE PATCH PLACE, STA. 10+10 TO 20+57
PARK AND RIDE LOT, STA. 0+70 TO 8+44

FILE NAME:
USER:
PLOTTED:
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R32

	ABRASION LEVEL	DESIGN DH LEVEL	COVER HEIGHT FT	12" SS PIPE LF	15" SS PIPE LF	21" SS PIPE LF	24" SS PIPE LF	30" SS PIPE LF	CBI TYPE A EA	DBI TYPE 3 EA	MH TYPE A EA	MH TYPE C EA	PIPE CULVERT HDWL-12 IN EA	PIPE CULVERT HDWL-21 IN EA	PIPE CULVERT HDWL-30 IN EA
	HA	M	2.8		153	84			2		1			1	
	HA	M	1.2	14	124		117	52	2	1		1	1		1



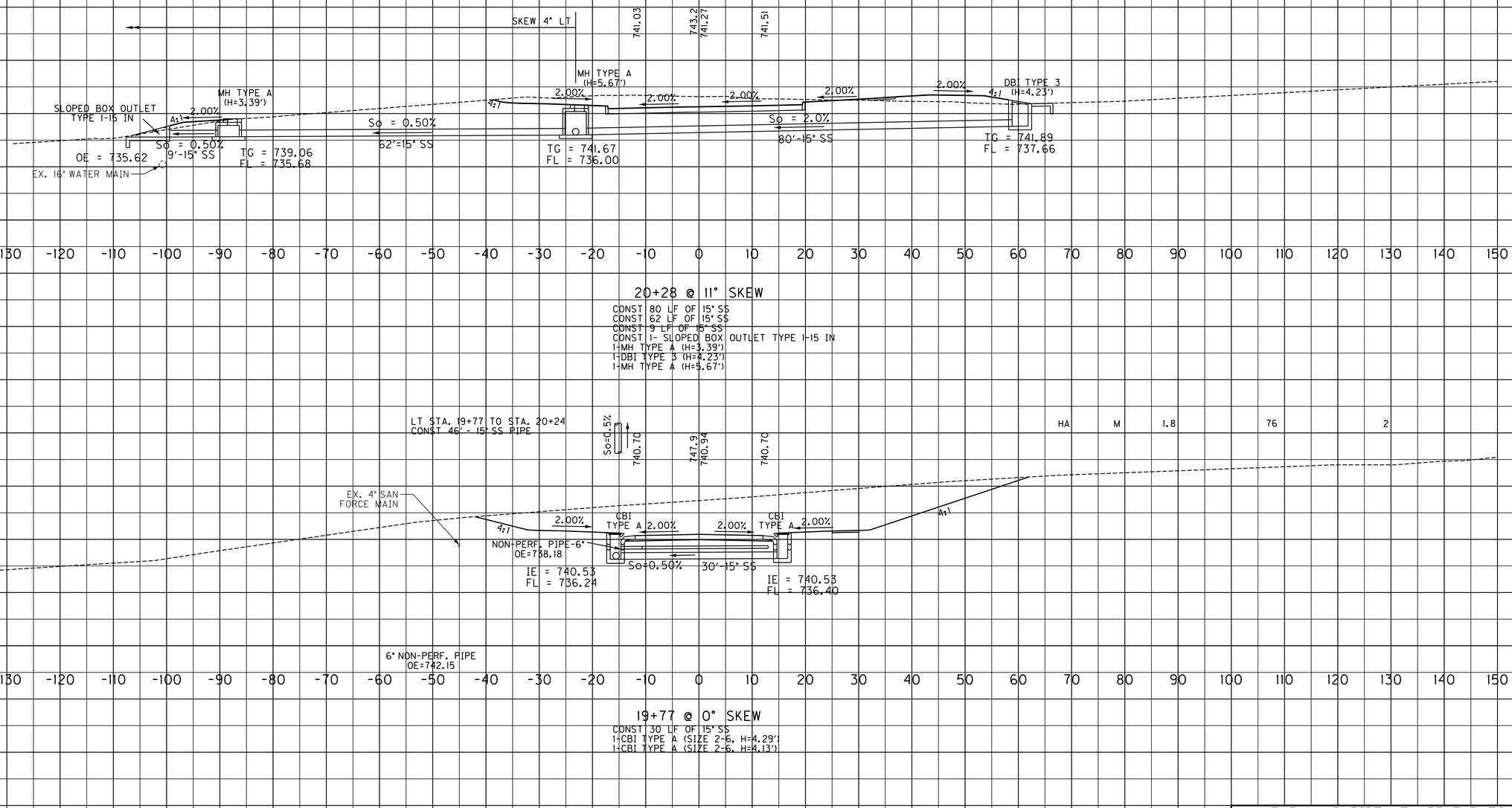
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE AT APPLE PATCH
PIPE SECTIONS
13+77 TO 14+51

FILE NAME: R03200PD.DGN
USER: terri.combs
DATE PLOTTED: January 9, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R33

	ABRASION LEVEL	DESIGN pH LEVEL	COVER HEIGHT FT	15" SS PIPE LF	DBI TYPE 3 EA	CBI TYPE A EA	MH TYPE A EA	SLOPED BOX OUTLET TYPE I-15 IN EA
	HA	M	2.4	151	1		2	1



20+28 @ 11° SKEW

CONST 80 LF OF 15" SS
CONST 62 LF OF 15" SS
CONST 9 LF OF 15" SS
CONST 1- SLOPED BOX OUTLET TYPE I-15 IN
1-MH TYPE A (H=3.39')
1-DBI TYPE 3 (H=4.23')
1-MH TYPE A (H=5.67')

	ABRASION LEVEL	DESIGN pH LEVEL	COVER HEIGHT FT	15" SS PIPE LF	DBI TYPE 3 EA	CBI TYPE A EA	MH TYPE A EA	SLOPED BOX OUTLET TYPE I-15 IN EA
	HA	M	1.8	76		2		

19+77 @ 0° SKEW

CONST 30 LF OF 15" SS
1-CBI TYPE A (SIZE 2-6, H=4.29')
1-CBI TYPE A (SIZE 2-6, H=4.13')

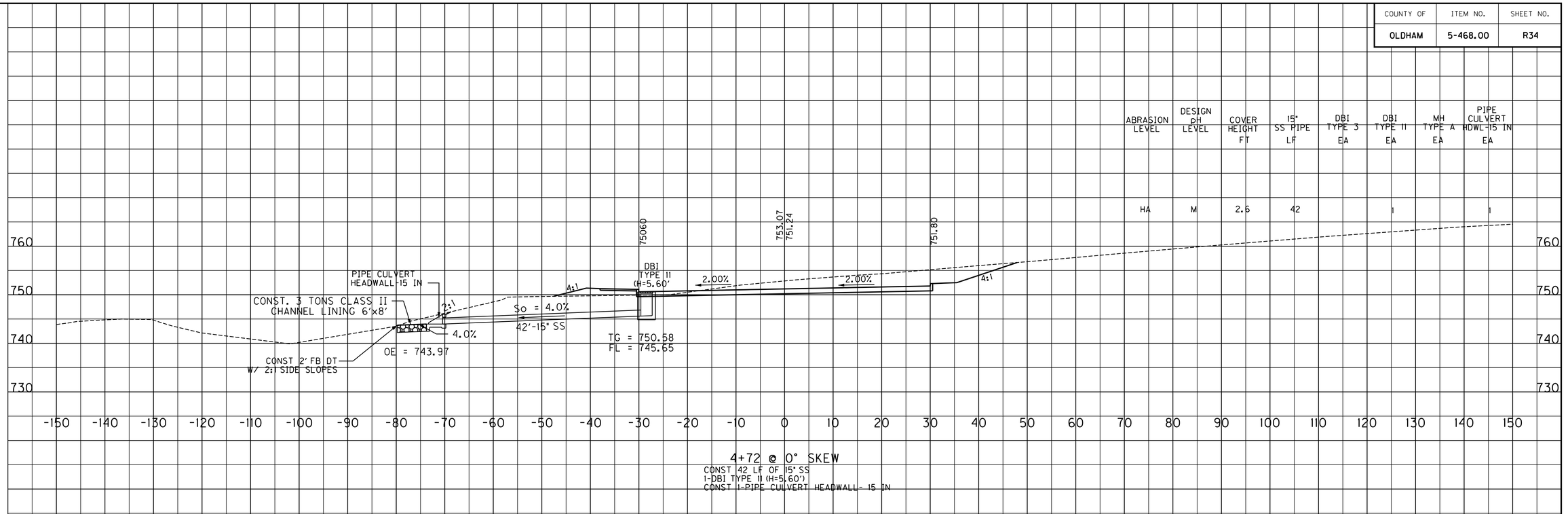
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

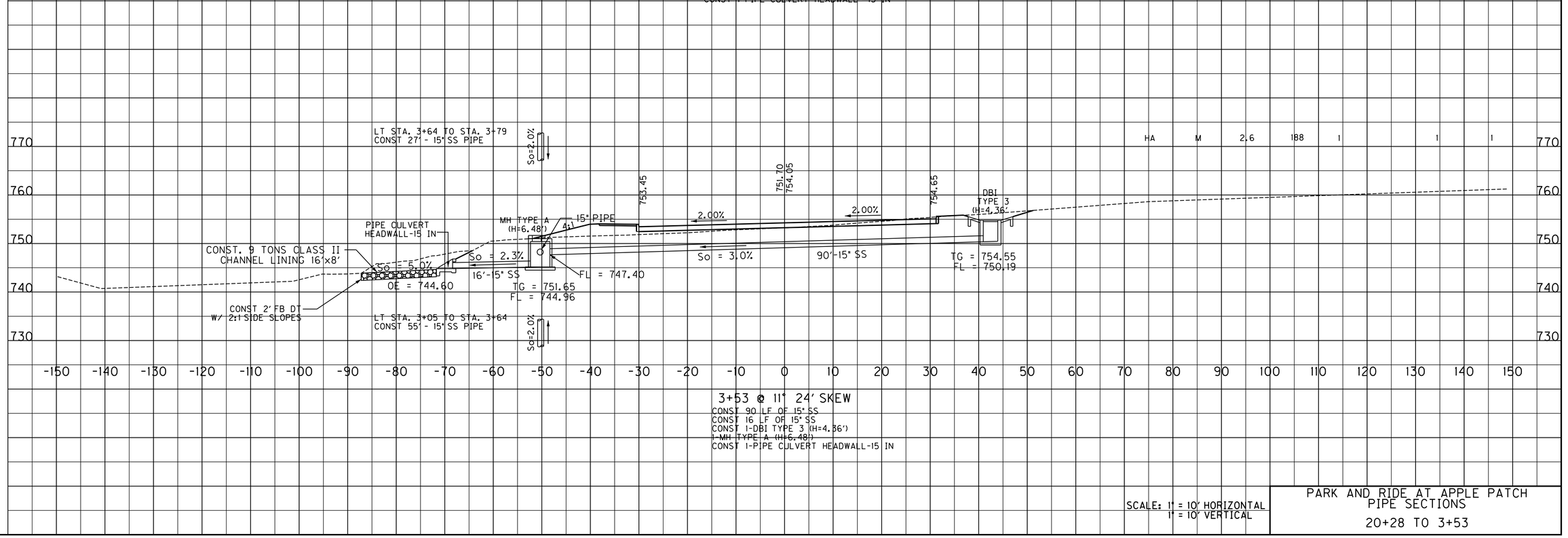
PARK AND RIDE AT APPLE PATCH
PIPE SECTIONS
17+20 TO 19+77

MicroStation v8.11.7.443
E-SHEET NAME:
USER: bratu.dadi
DATE PLOTTED: November 12, 2014
FILE NAME: R03300PD.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R34

	ABRASION LEVEL	DESIGN pH LEVEL	COVER HEIGHT FT	15" SS PIPE LF	DBI TYPE 3 EA	DBI TYPE II EA	MH TYPE A EA	PIPE CULVERT HDWL-15 IN EA
	HA	M	2.6	42		1		1





ABRASION LEVEL	DESIGN pH LEVEL	COVER HEIGHT FT	15" SS PIPE LF	DBI TYPE 3 EA	DBI TYPE II EA	MH TYPE A EA	PIPE CULVERT HDWL-15 IN EA
HA	M	2.6	188	1		1	1

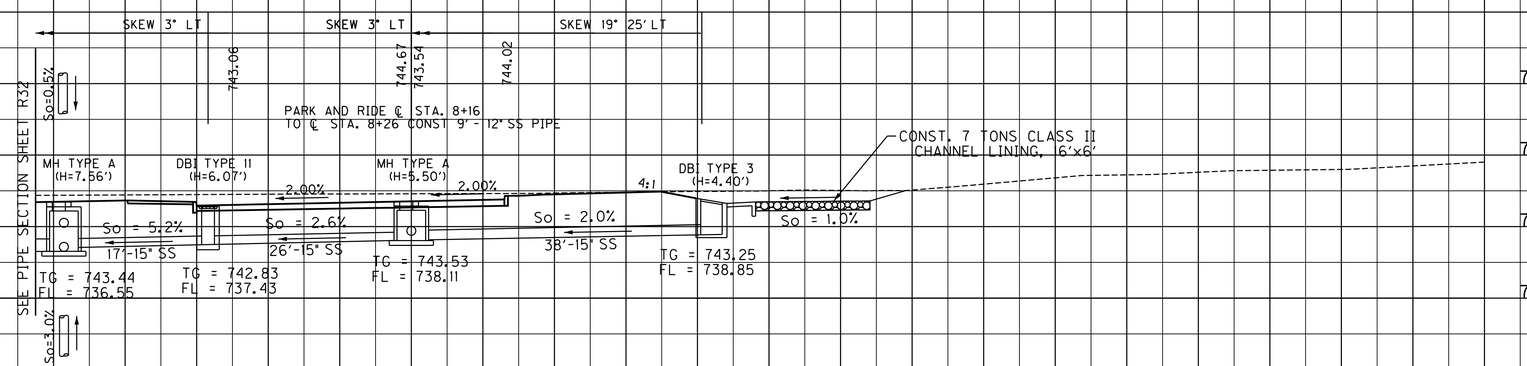
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE AT APPLE PATCH
PIPE SECTIONS
20+28 TO 3+53

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: terri.combs DATE PLOTTED: November 12, 2014 | FILE NAME: R03400PD.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	R35

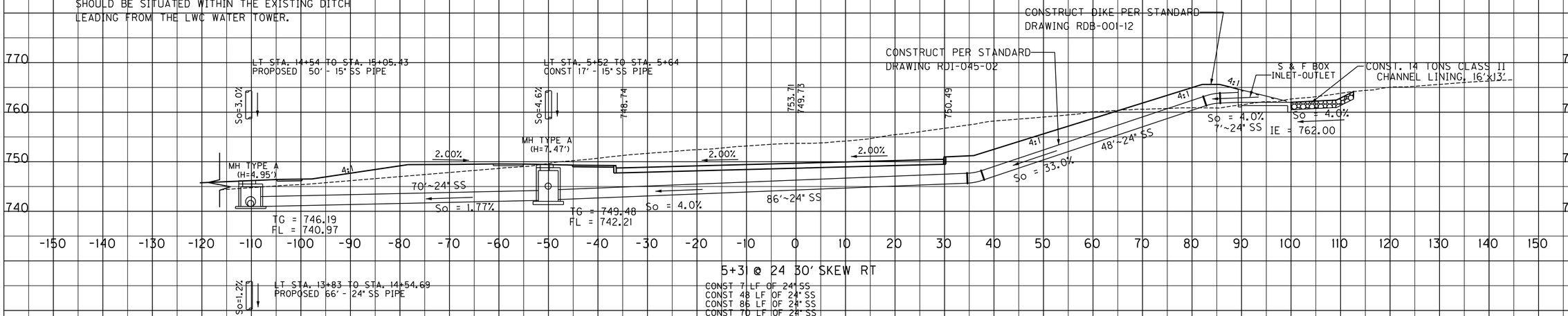
	ABRASION LEVEL	DESIGN pH LEVEL	COVER HEIGHT FT	12" SS PIPE LF	15" SS PIPE LF	24" SS PIPE LF	DBI TYPE 11 EA	DBI TYPE 3 EA	MH TYPE A EA	S & F BOX INLET-OUTLET-24 IN EA
8+15 @ 3° SKEW LT	HA	M	2.9	9	81		1	1	1	
5+31 @ 24 30' SKEW RT	HA	M	1.8		17	21			2	1



8+15 @ 3° SKEW LT

CONST 38 LF OF 15" SS
CONST 26 LF OF 15" SS
CONST 17 LF OF 15" SS
1-DBI TYPE 3 (H=4.40')
1-MH TYPE A (H=5.50')
1-DBI TYPE 11 (H=6.07')
1-MH TYPE A (H=7.56')

NOTE: EXISTING GROUND ELEVATIONS IN THIS AREA ARE BASED ON GIS DATA. CONTRACTOR TO VERIFY THE EXISTING GROUND ELEVATION AT D30 AND ADJUST THE GRATE ELEVATION IF REQUIRED. THE BASIN SHOULD BE SITUATED WITHIN THE EXISTING DITCH LEADING FROM THE LWC WATER TOWER.



LT STA. 13+83 TO STA. 14+54.69
PROPOSED 66' - 24" SS PIPE

5+31 @ 24 30' SKEW RT

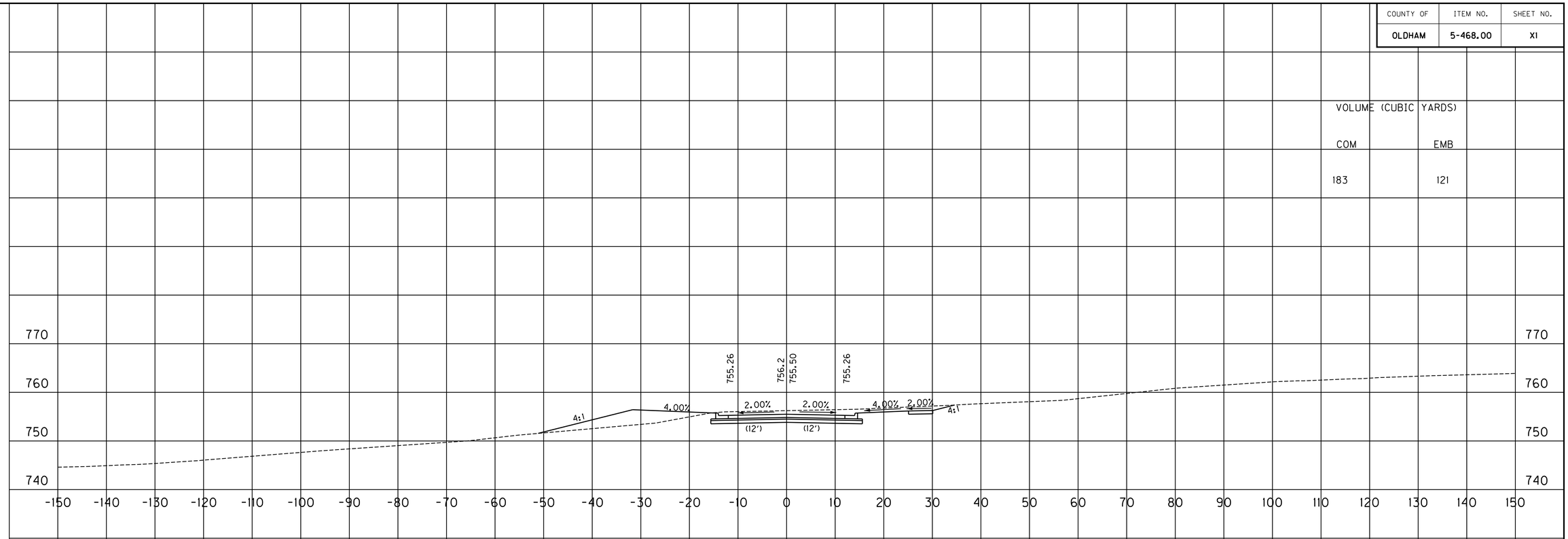
CONST 7 LF OF 24" SS
CONST 48 LF OF 24" SS
CONST 86 LF OF 24" SS
CONST 70 LF OF 24" SS
1-MH TYPE A (H=4.95')
1-MH TYPE A (H=7.47')
1- SLOPED & FLARED BOX INLET-OUTLET -24 IN

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE AT APPLE PATCH
PIPE SECTIONS
4+72 TO 5+31

FILE NAME: R0350OPD.DGN
USER: biratu.dadl
DATE PLOTTED: January 7, 2015
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X1



VOLUME (CUBIC YARDS)

COM	EMB
183	121
88	54

10+50

Earthwork (Sq. ft)	Total
Com	94
Emb	58

BEGIN PROJECT AND CONSTRUCTION
APPLE PATCH PLACE STA 9+83

0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF

OLDHAM

PROJECT NUMBERS: CM 3001 407/421

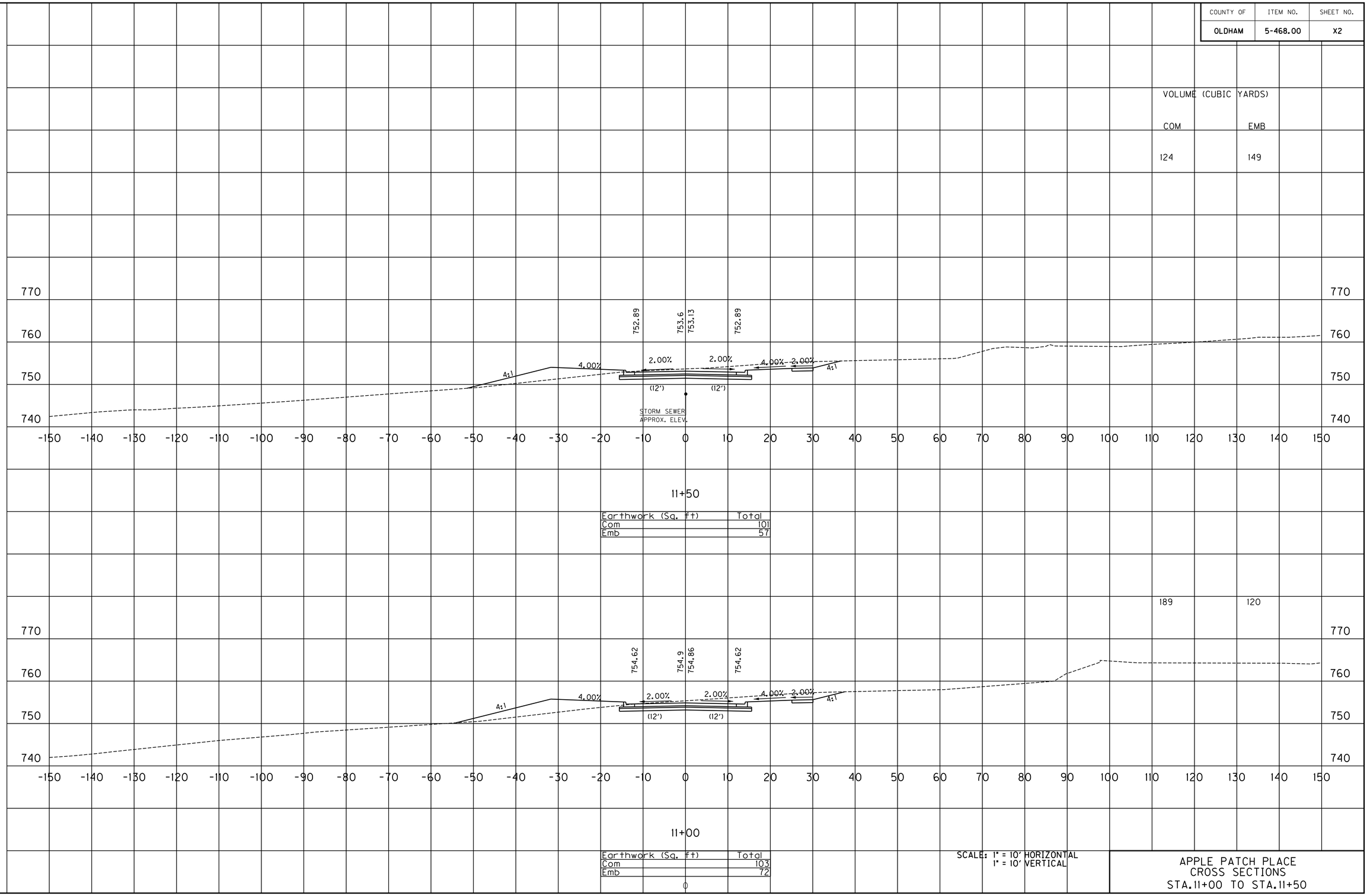
APPLE PATCH PLACE
CROSS SECTIONS
STA.10+00 TO STA.10+50

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\1500923 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: January 25, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X2

VOLUME (CUBIC YARDS)

COM	EMB
124	149



11+50

Earthwork (Sq. ft)	Total
Com	101
Emb	57

189	120

11+00

Earthwork (Sq. ft)	Total
Com	103
Emb	72

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.11+00 TO STA.11+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

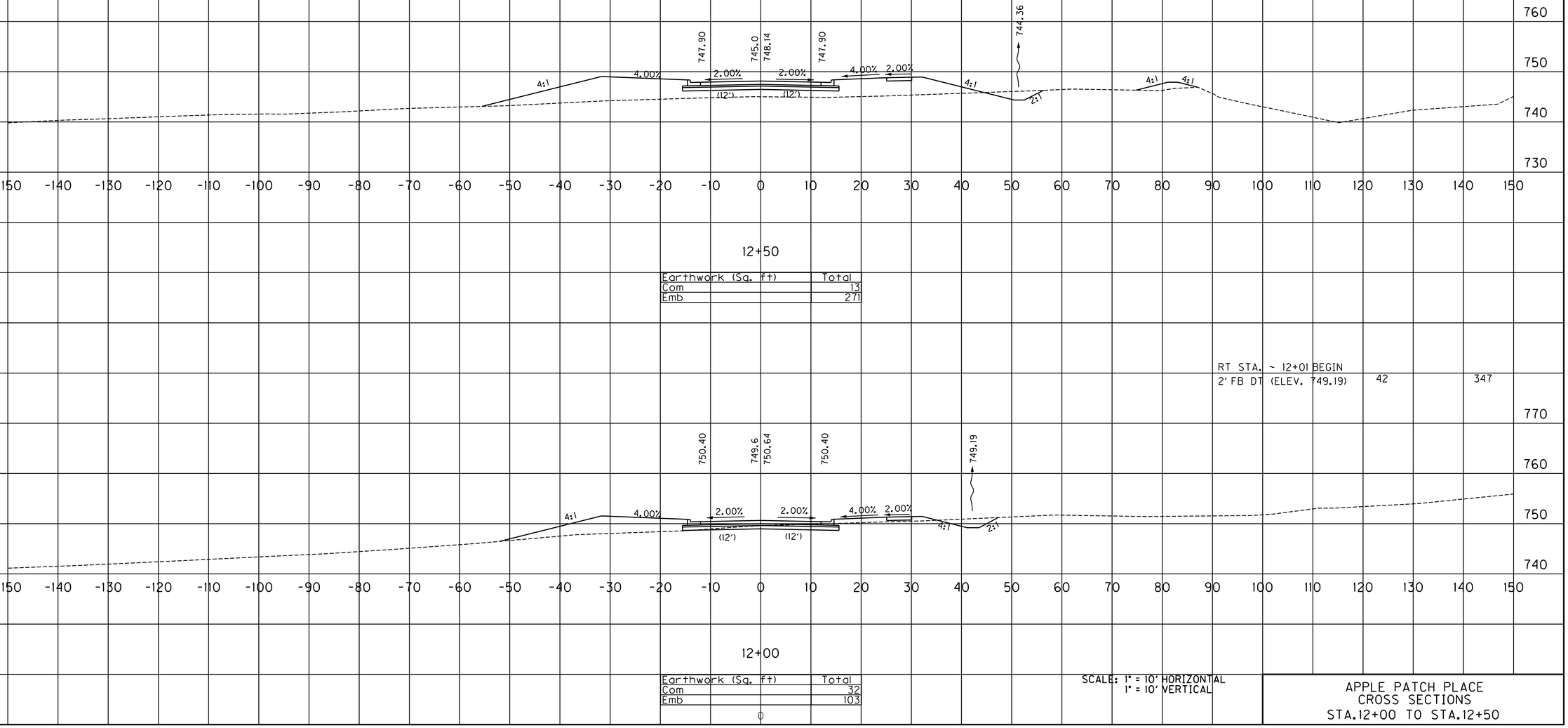
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X3

RT STA. ~ 12+95 END
2' FB DT (ELEV. 743.11)

VOLUME (CUBIC YARDS)	
COM	EMB
13	772



12+50

Earthwork (Sq. ft)	Total
Com	13
Emb	271

RT STA. ~ 12+01 BEGIN
2' FB DT (ELEV. 749.19)

42	347

12+00

Earthwork (Sq. ft)	Total
Com	32
Emb	103

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.12+00 TO STA.12+50

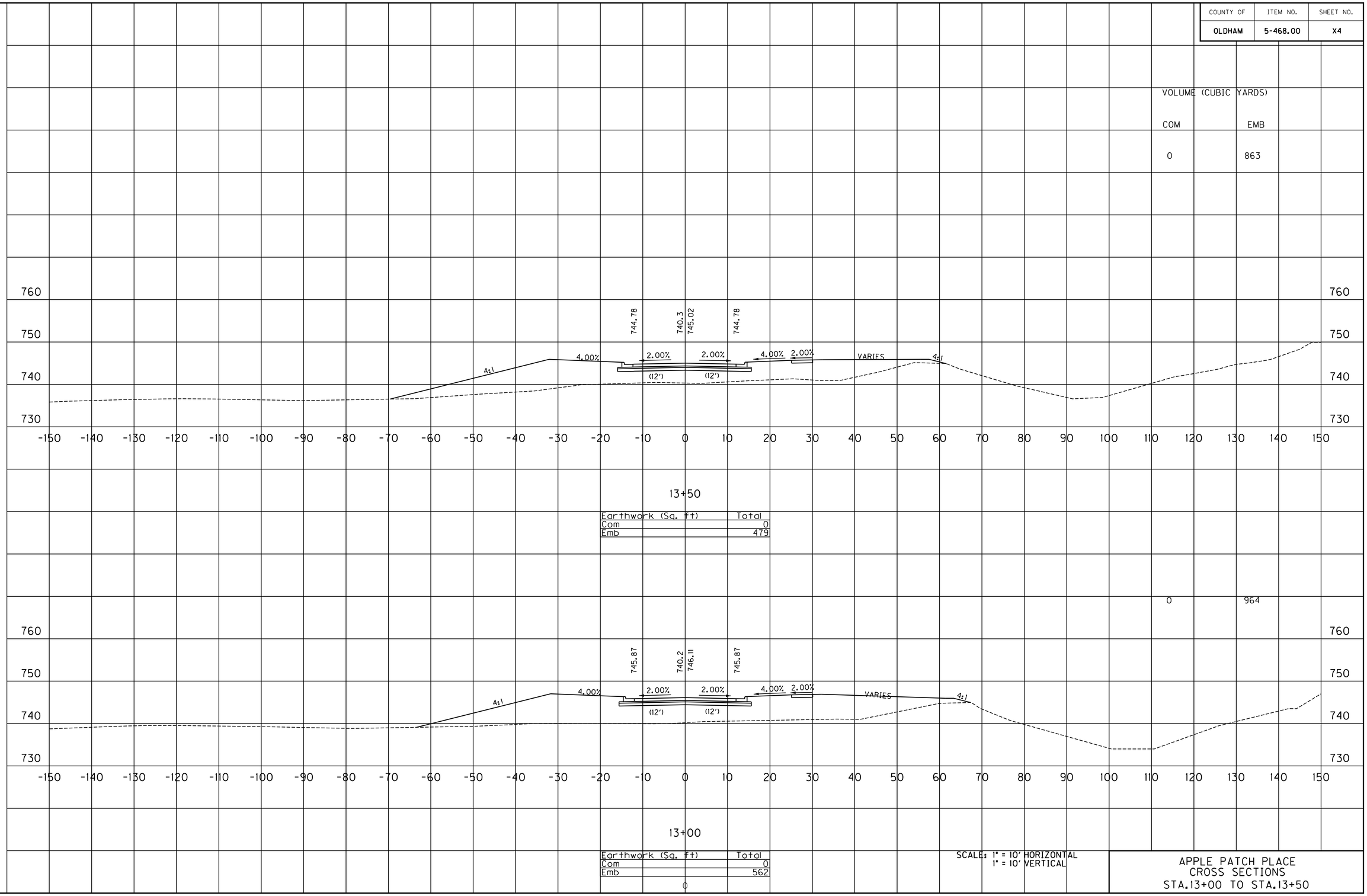
FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X4



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.13+00 TO STA.13+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

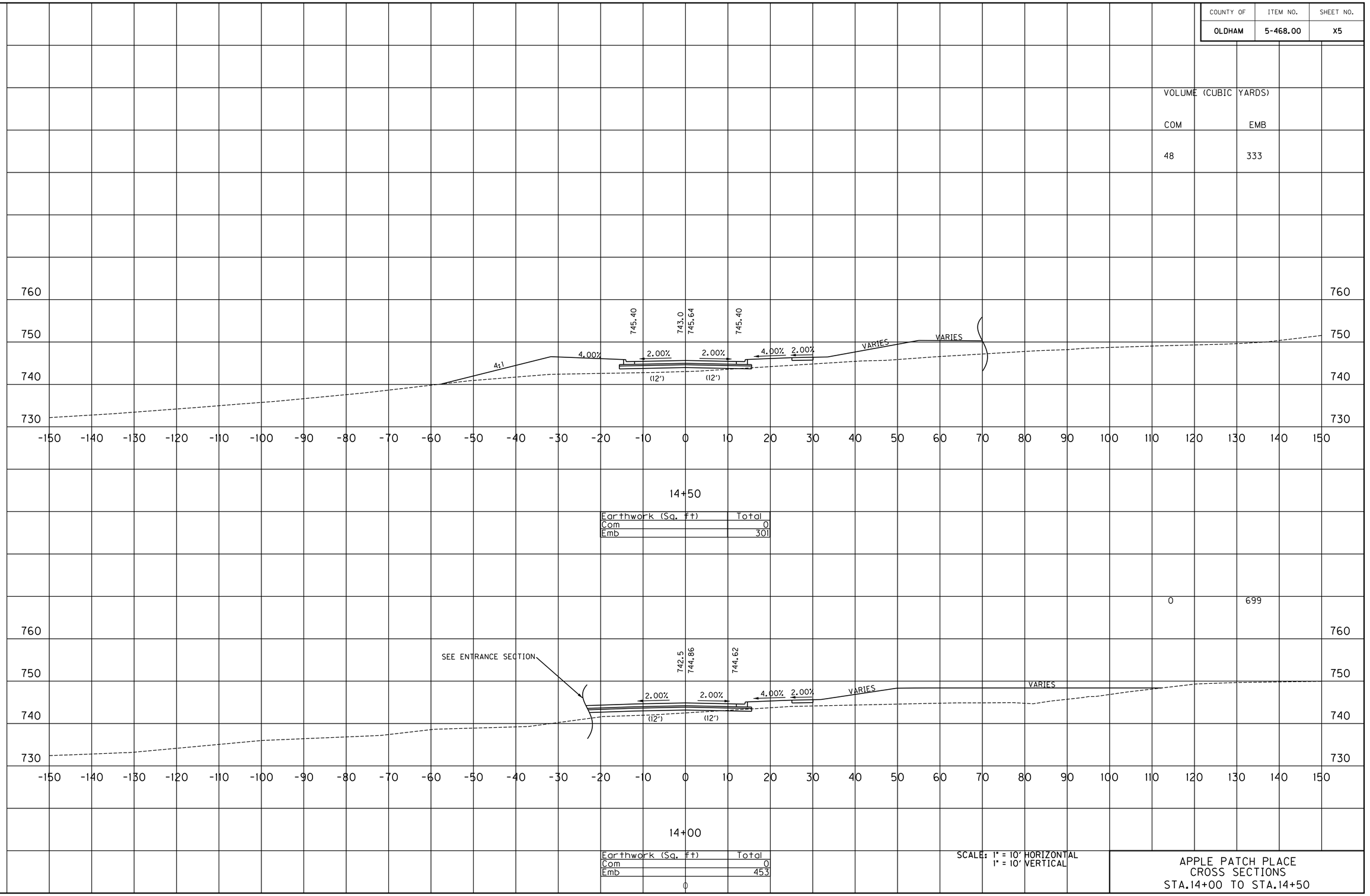
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X5

VOLUME (CUBIC YARDS)

COM	EMB
48	333



14+50

Earthwork (Sq. ft)	Total
Com	0
Emb	301

0	699

14+00

Earthwork (Sq. ft)	Total
Com	0
Emb	453

0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.14+00 TO STA.14+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

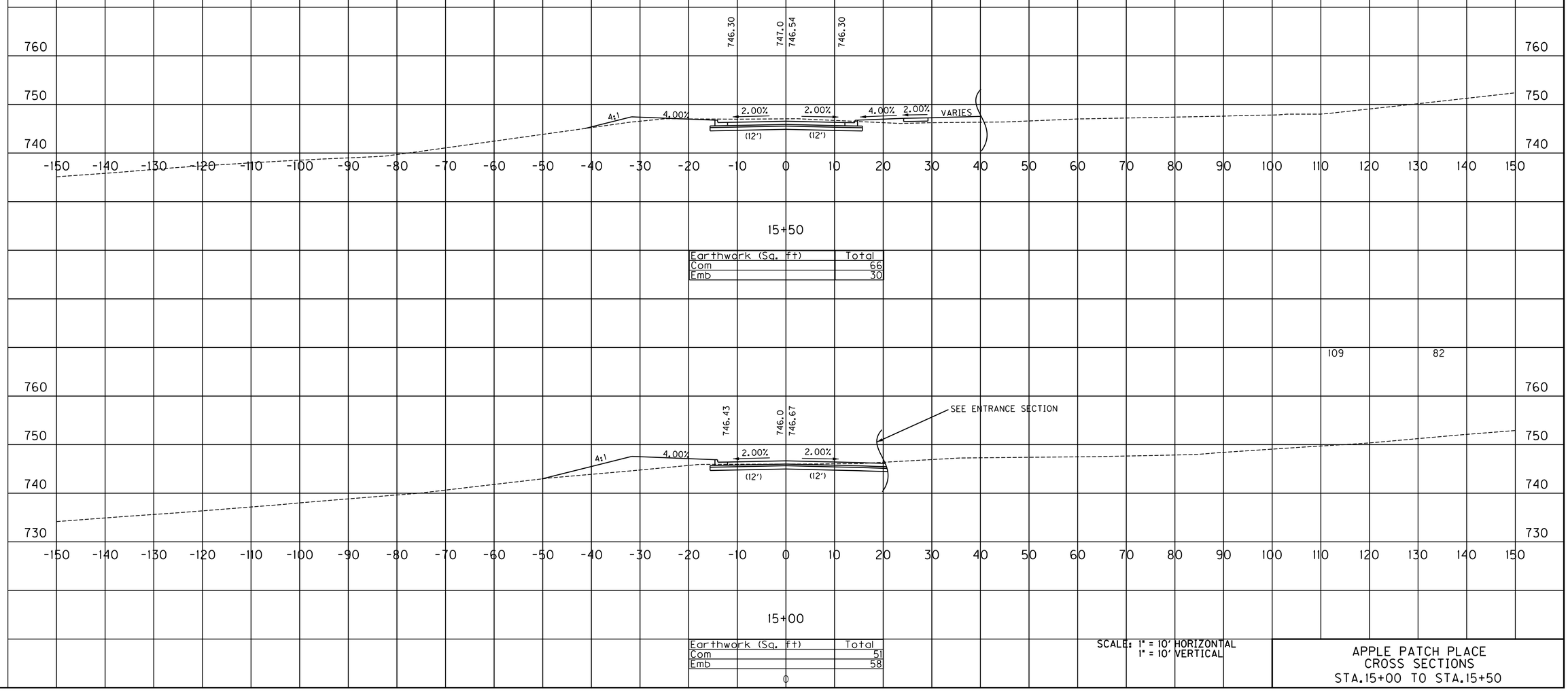
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X6

VOLUME (CUBIC YARDS)

COM	EMB
102	53



15+50

Earthwork (Sq. ft)	Total
Com	66
Emb	30

109 82

15+00

Earthwork (Sq. ft)	Total
Com	51
Emb	58

0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.15+00 TO STA.15+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X7

VOLUME (CUBIC YARDS)

COM	EMB
120	85

760
750
740
730

743.90 744.0 744.14 743.90

4:1 4.00% 2.00% 2.00% 4.00% 2.00% VARIES

(12') (12')

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

16+50

Earthwork (Sq. ft)	Total
Com	65
Emb	31

COM	EMB
101	54

745.15 745.0 745.39 745.15

4:1 4.00% 2.00% 2.00% 4.00% 2.00% VARIES

(12') (12')

16+00

Earthwork (Sq. ft)	Total
Com	44
Emb	27

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.16+00 TO STA.16+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

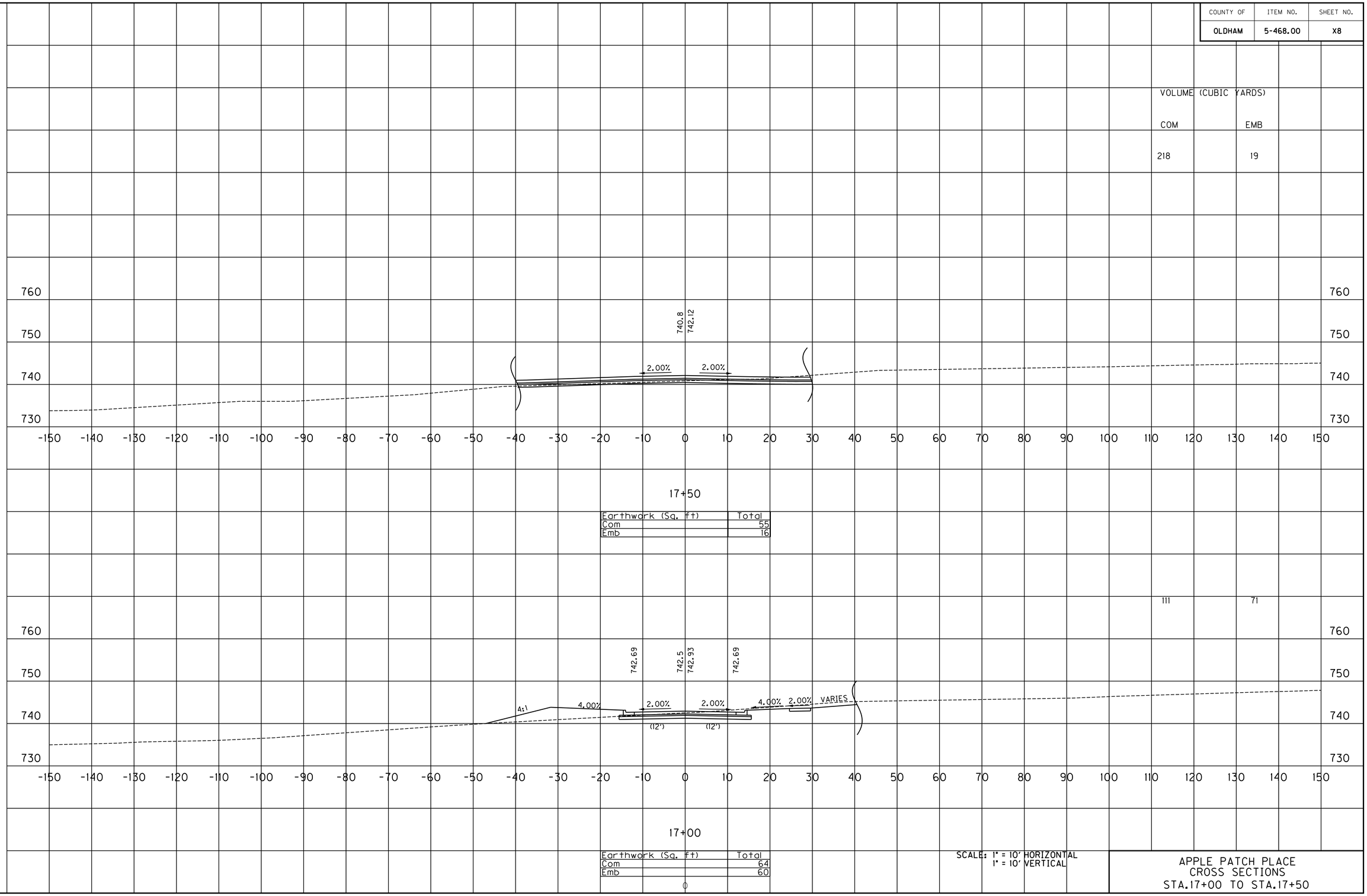
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X8

VOLUME (CUBIC YARDS)

COM	EMB
218	19



17+50

Earthwork (Sq. ft)	Total
Com	55
Emb	16

111 71

17+00

Earthwork (Sq. ft)	Total
Com	64
Emb	60

0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.17+00 TO STA.17+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

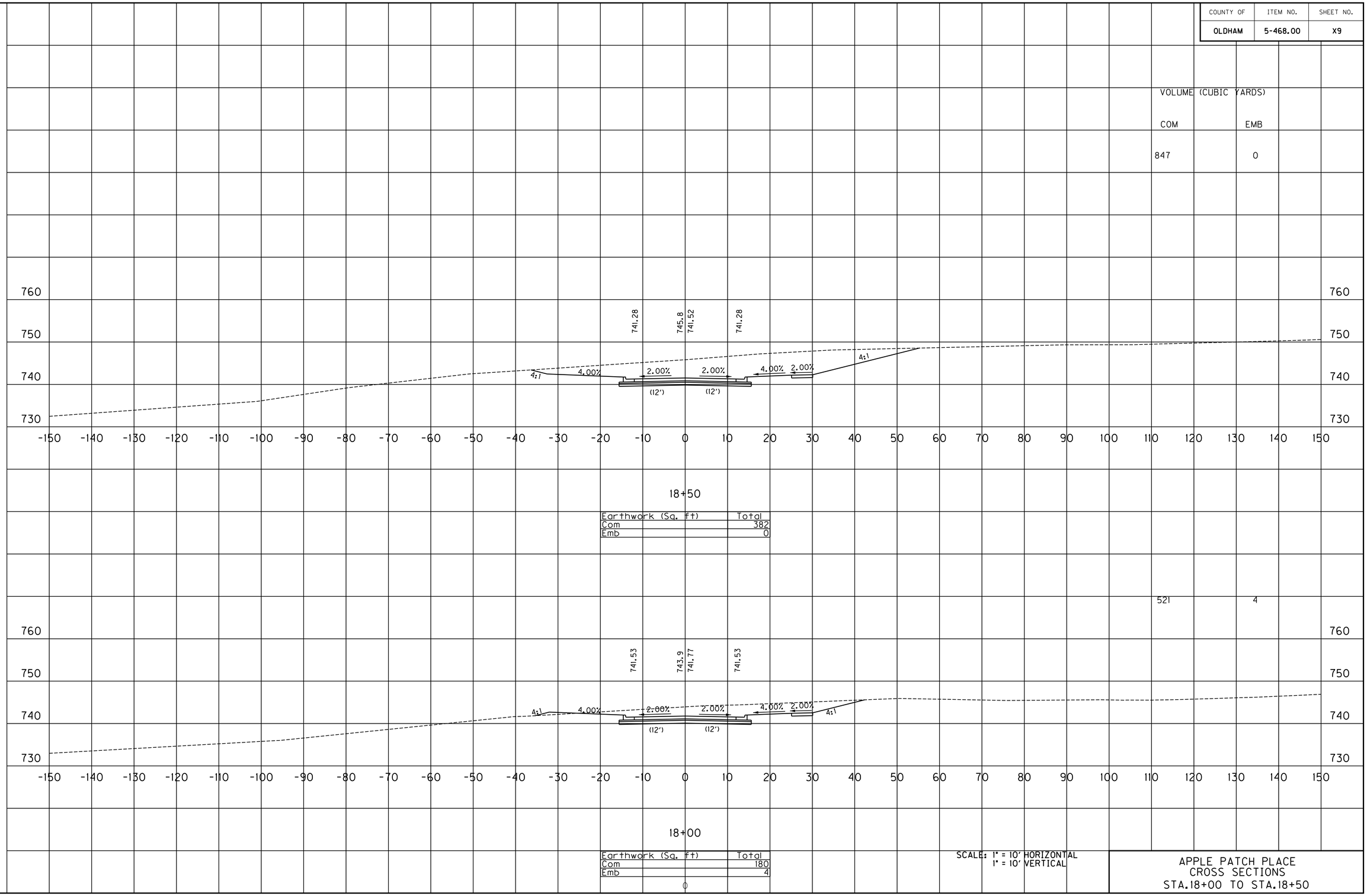
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X9

VOLUME (CUBIC YARDS)

COM	EMB
847	0



18+50

Earthwork (Sq. ft)	Total
Com	382
Emb	0

521 4

18+00

Earthwork (Sq. ft)	Total
Com	180
Emb	4

0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.18+00 TO STA.18+50

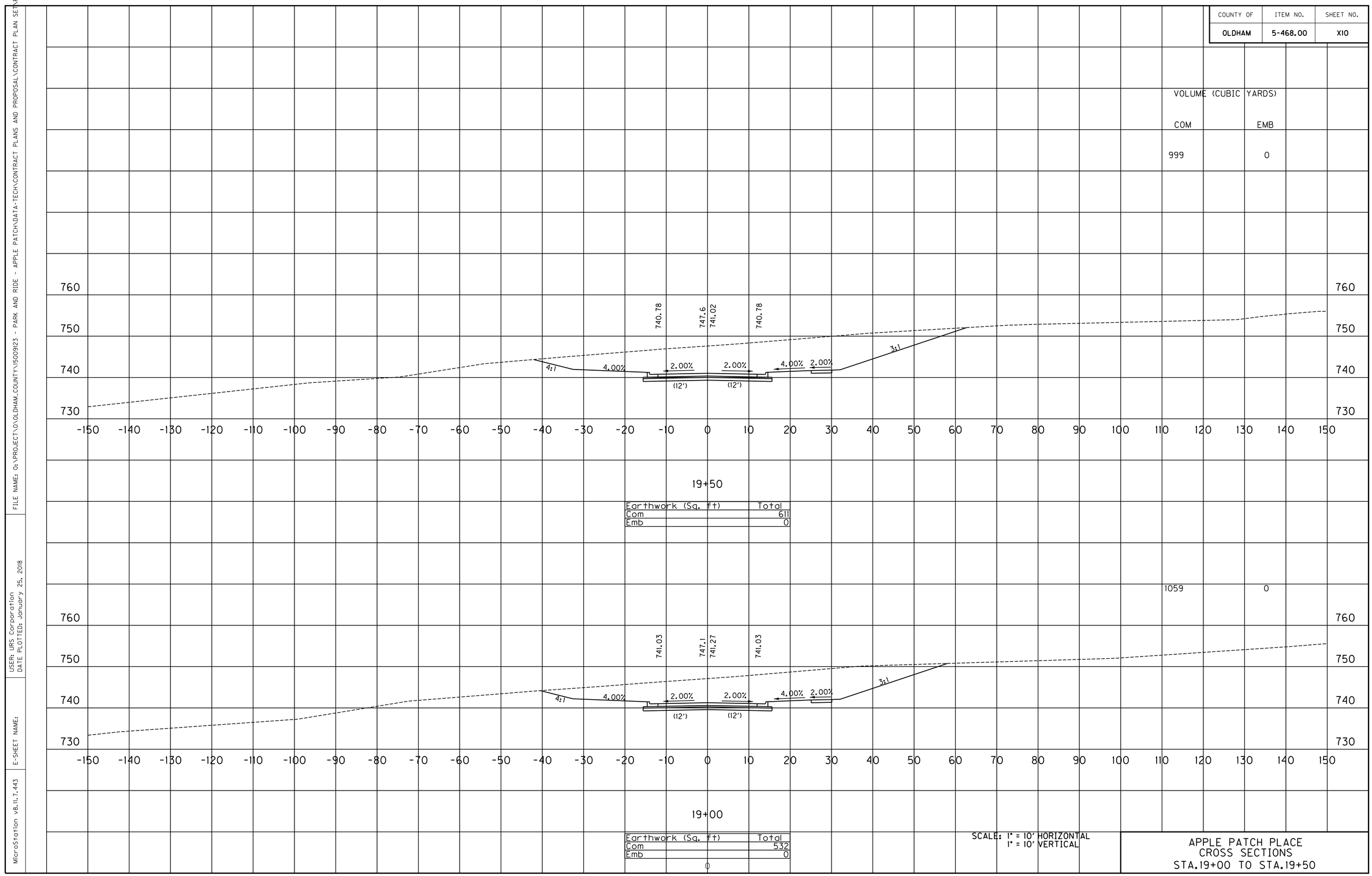
FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X10



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.19+00 TO STA.19+50

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	XII

	VOLUME (CUBIC YARDS)	
	COM	EMB
APPLE PATCH PLACE TOTALS	5389	4807
	23	5
	492	12

END PROJECT AND CONSTRUCTION
APPLE PATCH PLACE STA 20+57

741.1
741.60

VARIES 2.83% 2.83% VARIES

20+50

Earthwork (Sq. ft)	Total
Com	64
Emb	12

740.76 746.9 741.00 740.93

4:1 4.00% 2.00% 0.58% 4.00% 2.00% 4:1

(12') (12')

20+00

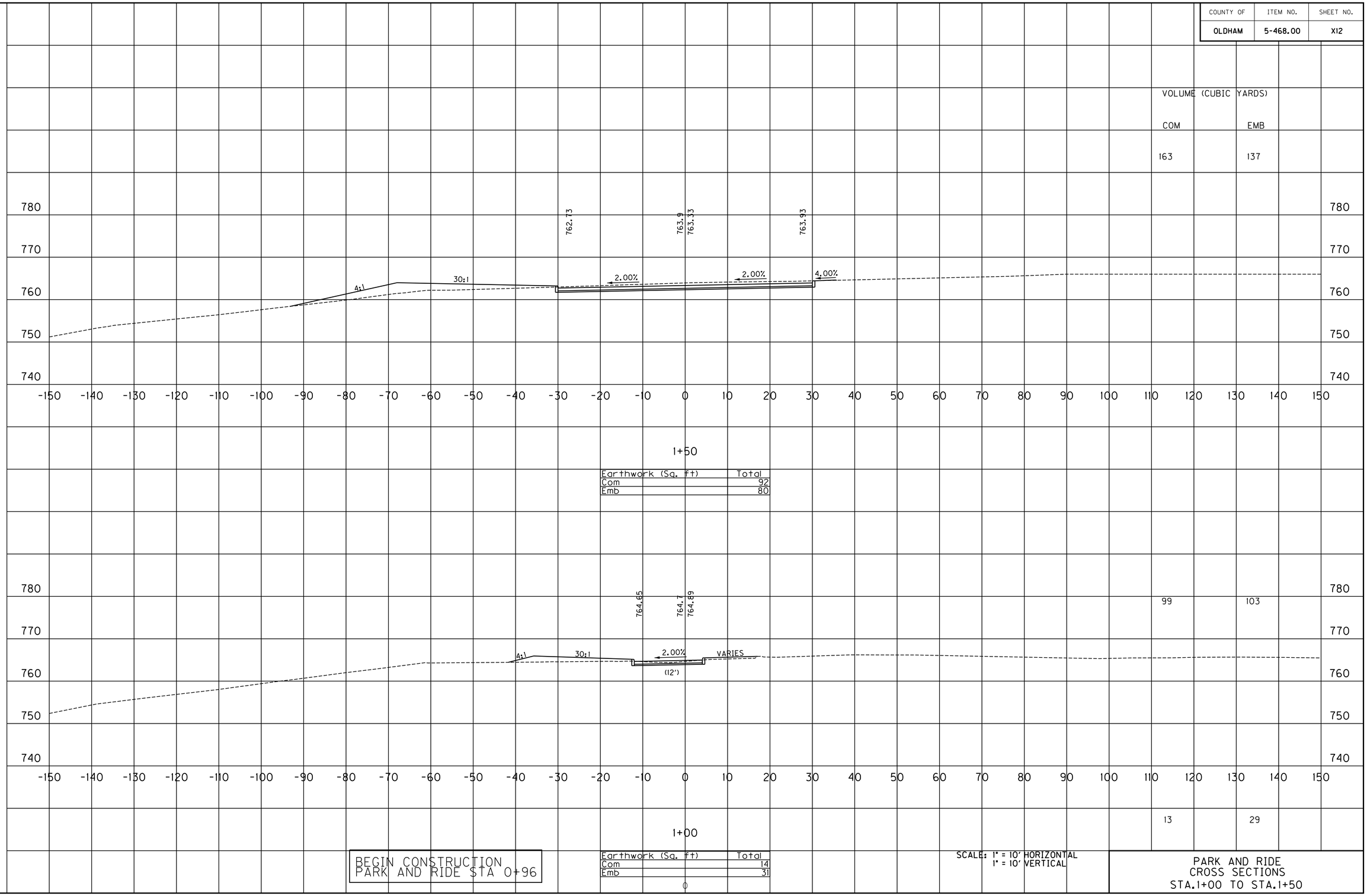
Earthwork (Sq. ft)	Total
Com	557
Emb	0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
CROSS SECTIONS
STA.20+00 TO STA.20+50

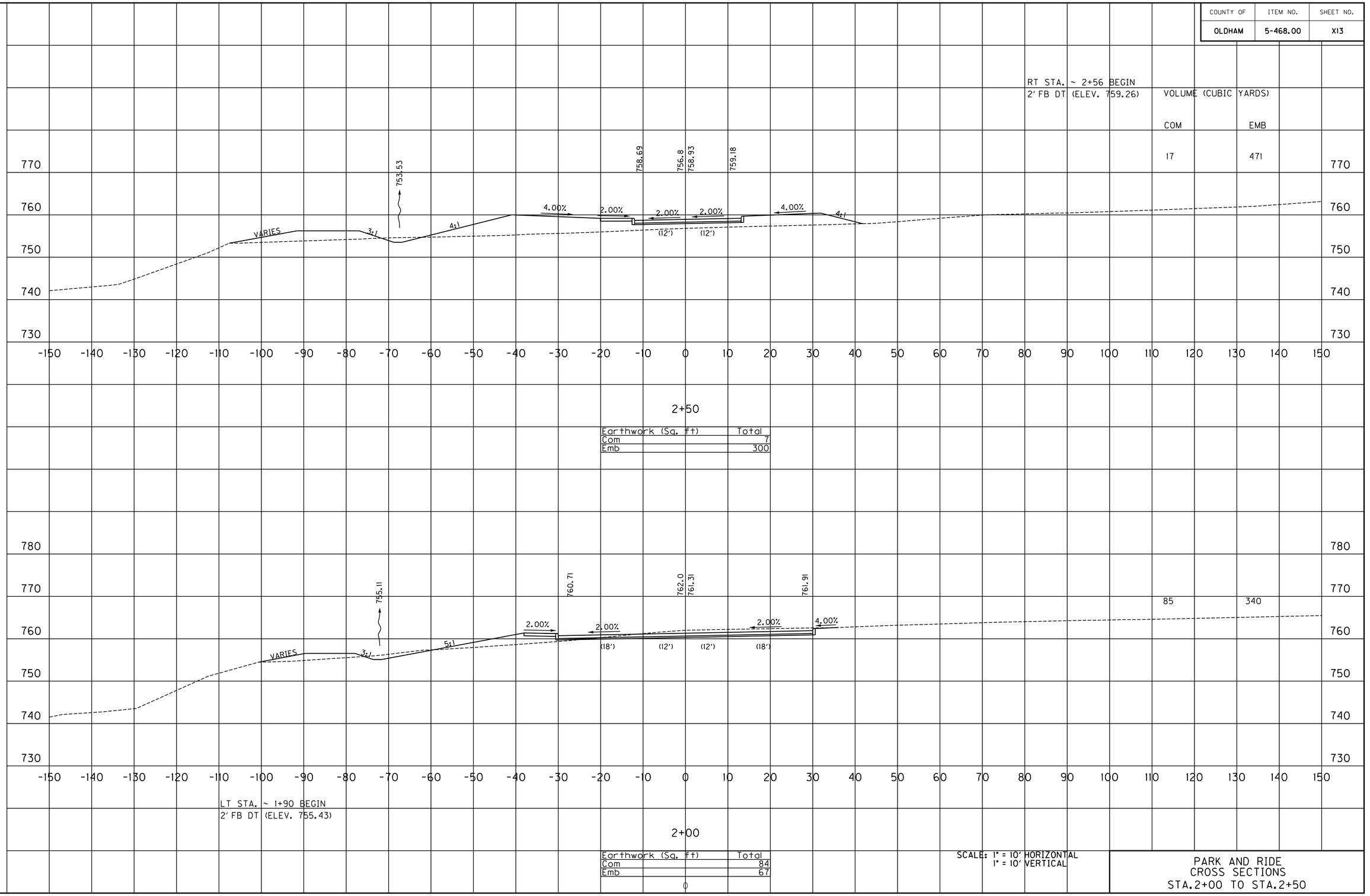
FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: January 25, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X12



MicroStation v8.11.7.443
E-SHEET NAME:
USER: URS Corporation
DATE PLOTTED: January 25, 2018
FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X13



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA.2+00 TO STA.2+50

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

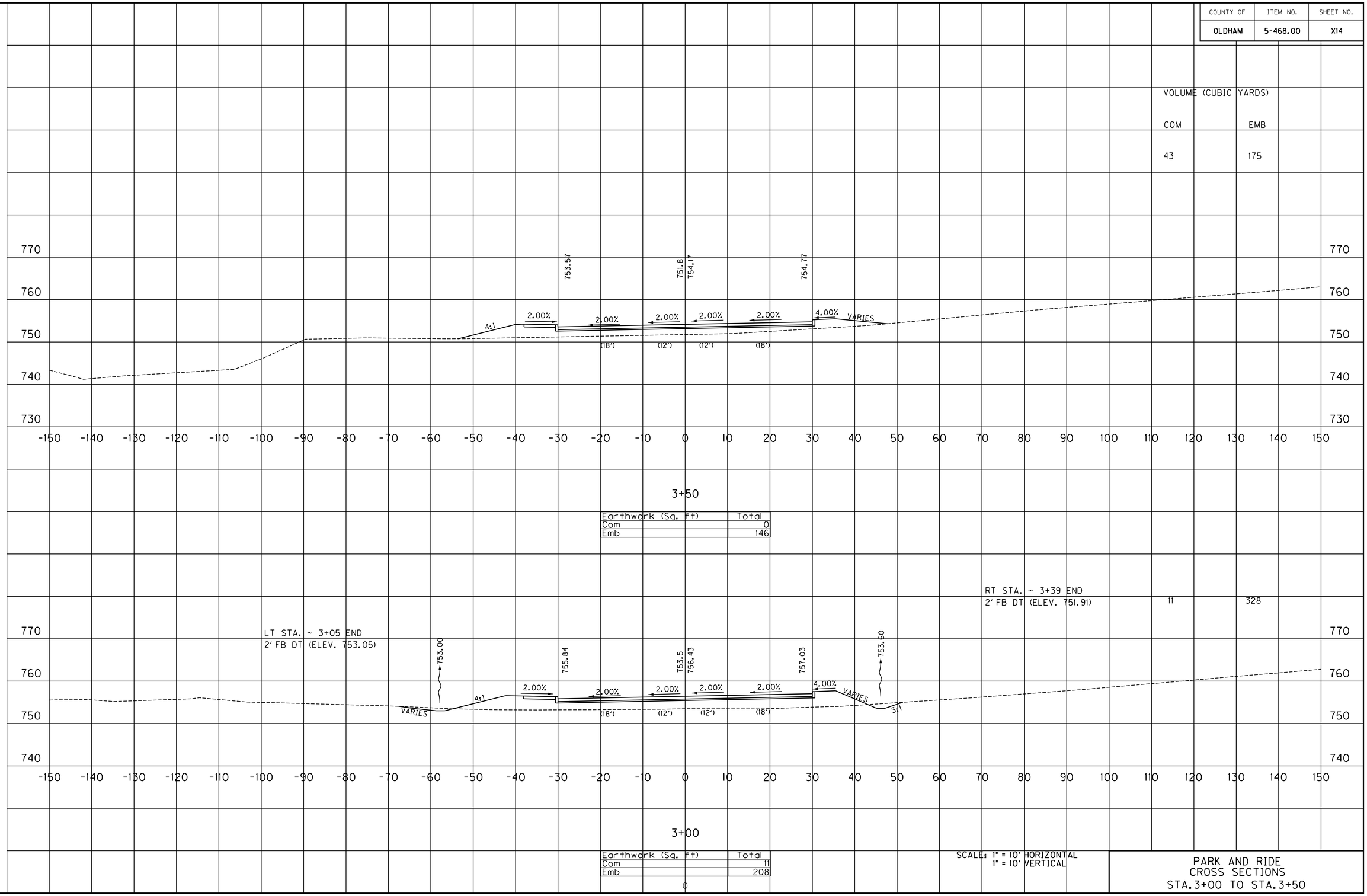
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X14

VOLUME (CUBIC YARDS)

COM	EMB
43	175

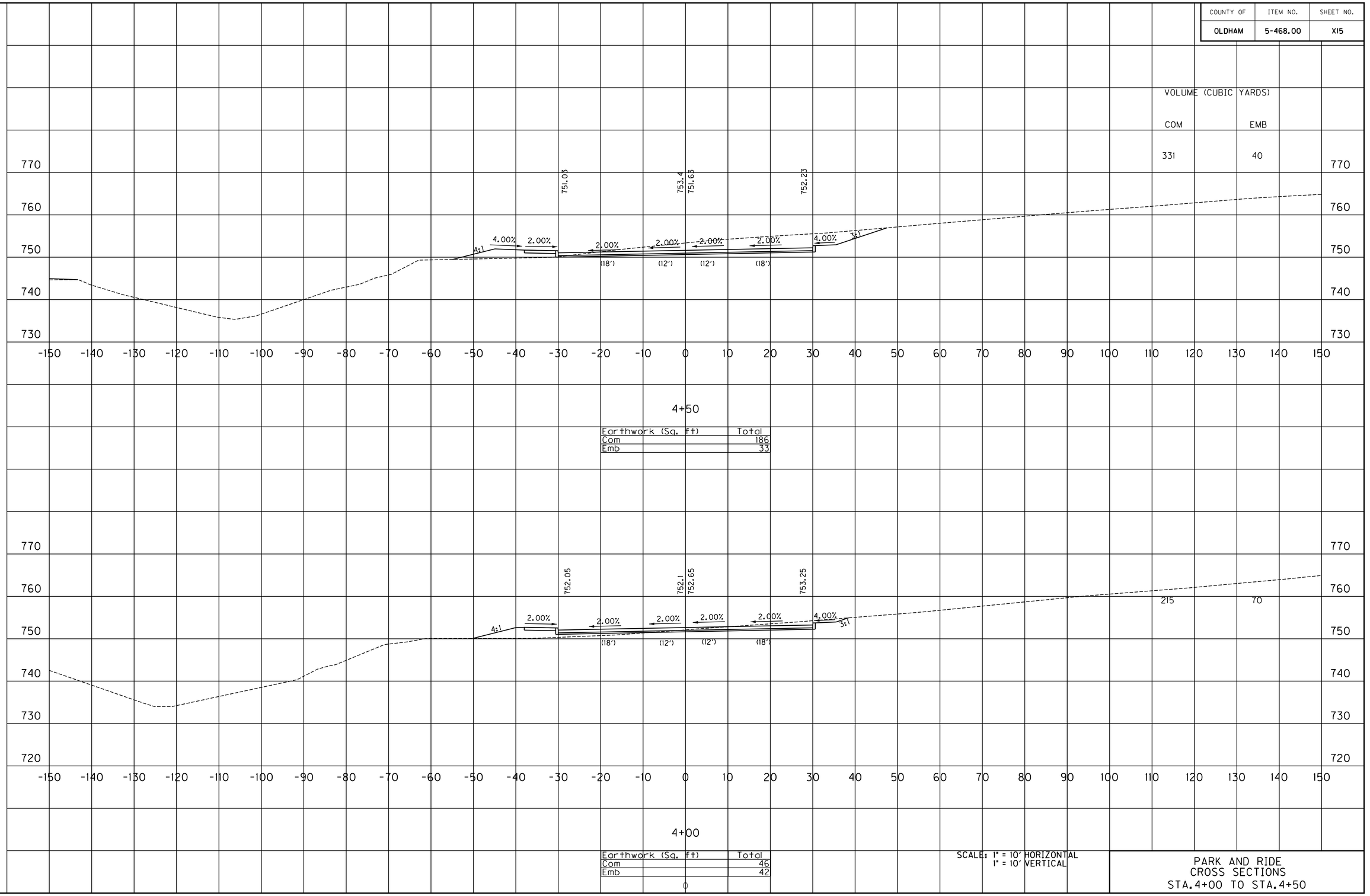


SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA.3+00 TO STA.3+50

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: January 25, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X15



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA.4+00 TO STA.4+50

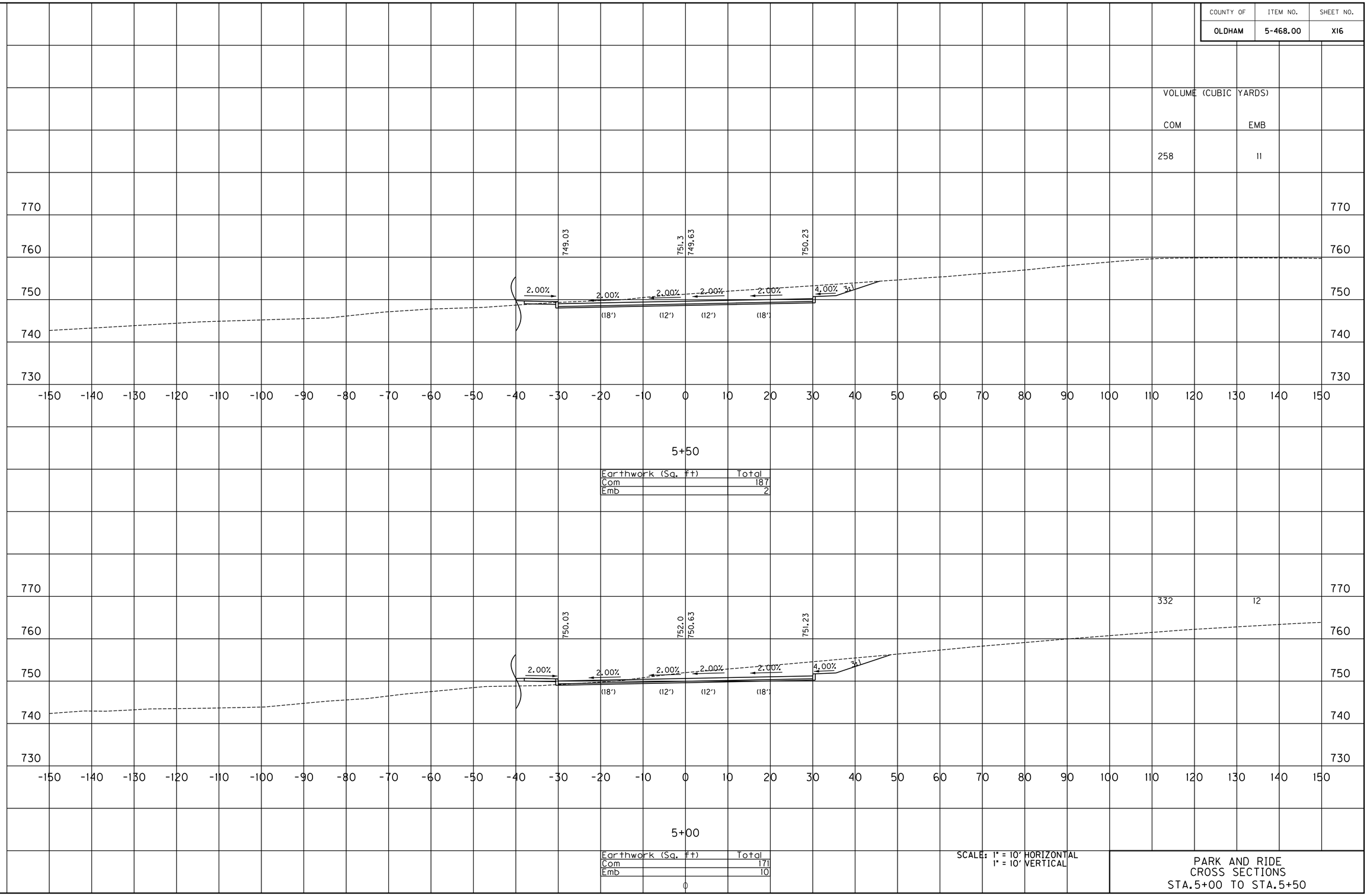
FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X16



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA.5+00 TO STA.5+50

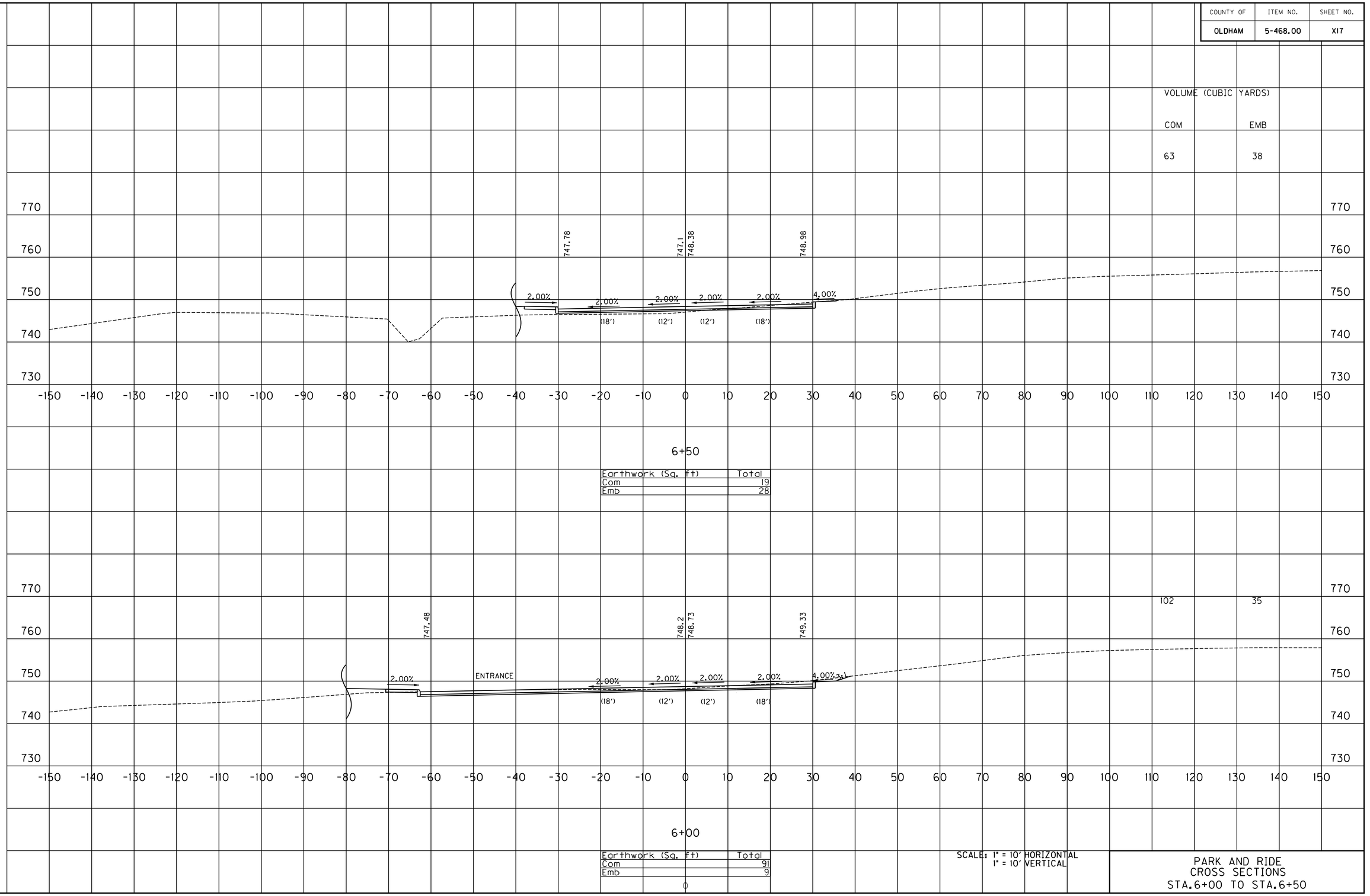
FILE NAME: 0:\PROJECT\OLDHAM\COUNTY\1500923 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X17



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA.6+00 TO STA.6+50

FILE NAME: O:\PROJECT\O\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

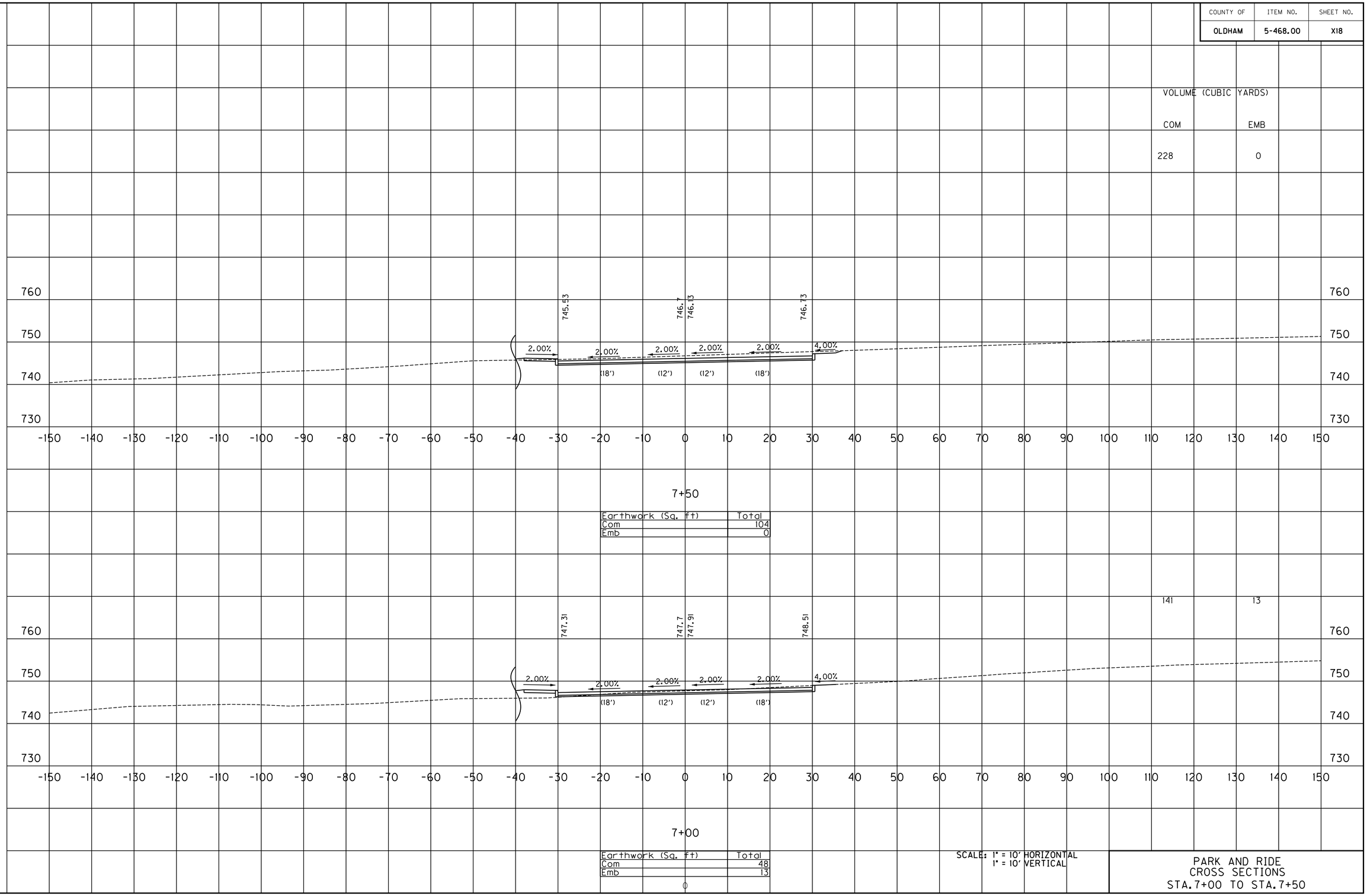
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X18

VOLUME (CUBIC YARDS)

COM	EMB
228	0



7+50

Earthwork (Sq. ft)	Total
Com	104
Emb	0

141 13

7+00

Earthwork (Sq. ft)	Total
Com	48
Emb	13

0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA. 7+00 TO STA. 7+50

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

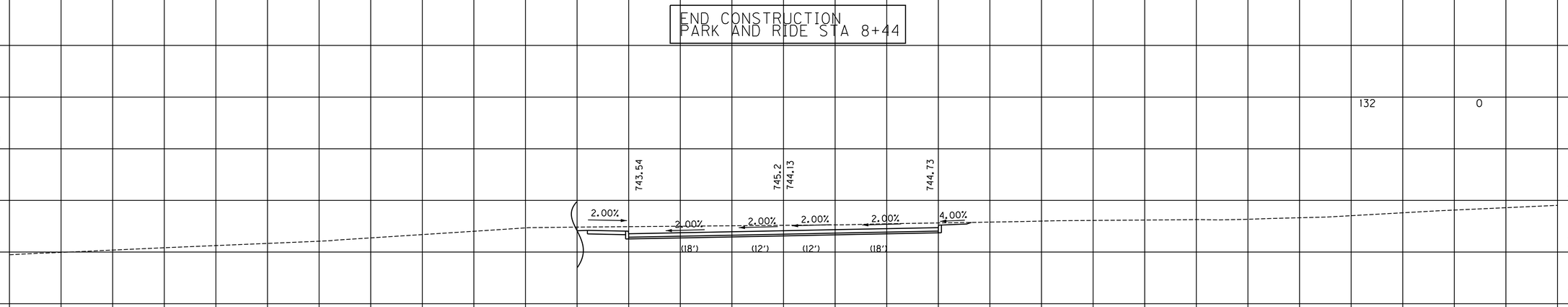
E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X19

	VOLUME (CUBIC YARDS)			
	COM		EMB	
PARK AND RIDE TOTALS	2233		1802	
	17		0	
	132		0	

END CONSTRUCTION
PARK AND RIDE STA 8+44



8+00

Earthwork (Sq. ft)	Total
Com	142
Emb	0

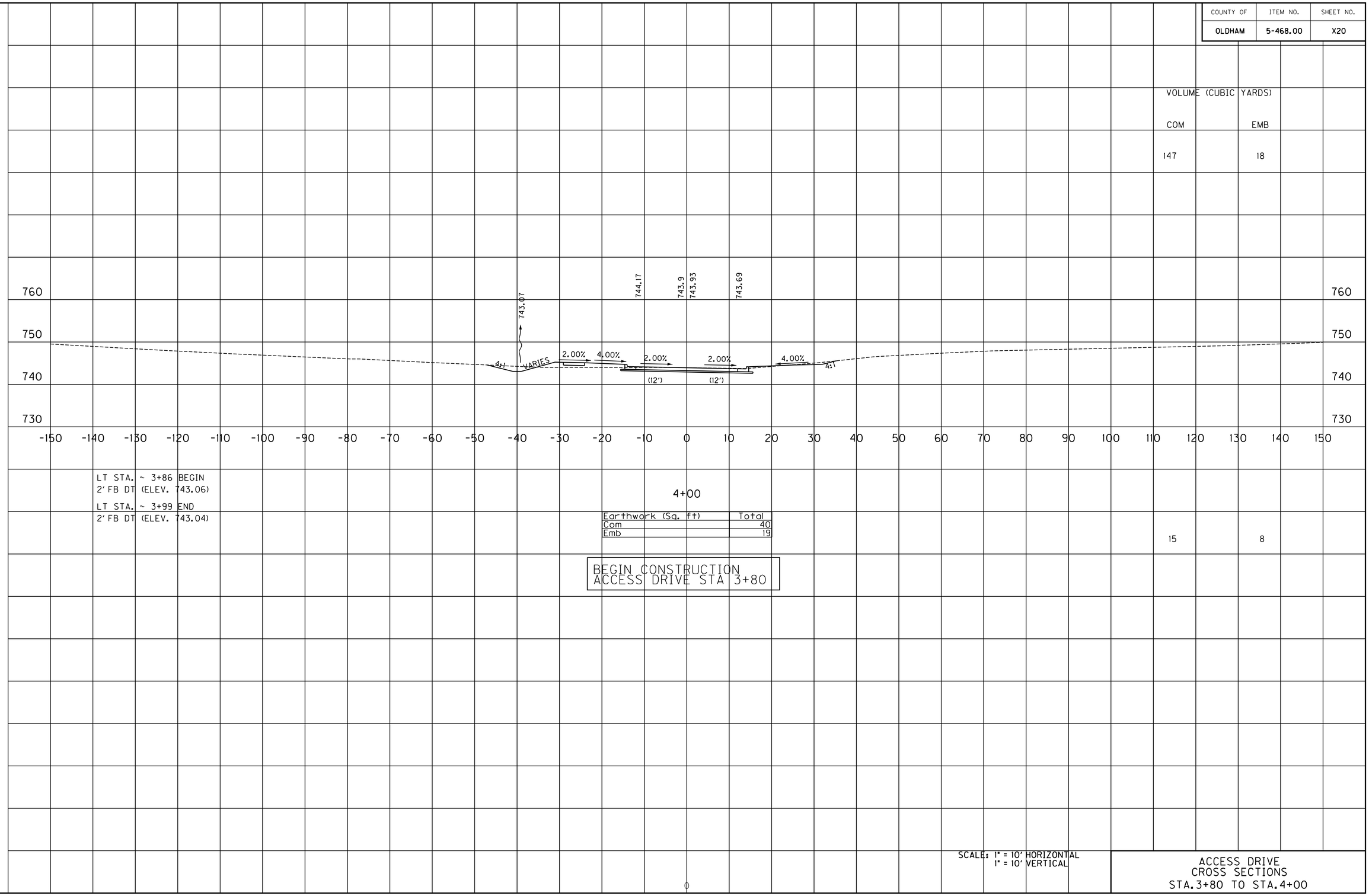
0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE
CROSS SECTIONS
STA.8+00 TO STA.8+50

FILE NAME: O:\PROJECT\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: January 25, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X20



VOLUME (CUBIC YARDS)

COM	EMB
147	18

LT STA. ~ 3+86 BEGIN
2' FB DT (ELEV. 743.06)

LT STA. ~ 3+99 END
2' FB DT (ELEV. 743.04)

4+00

Earthwork (Sq. ft)	Total
Com	40
Emb	19

15	8

BEGIN CONSTRUCTION
ACCESS DRIVE STA 3+80

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

ACCESS DRIVE
CROSS SECTIONS
STA.3+80 TO STA.4+00

0

FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

USER: URS Corporation
DATE PLOTTED: January 25, 2018

E-SHEET NAME:

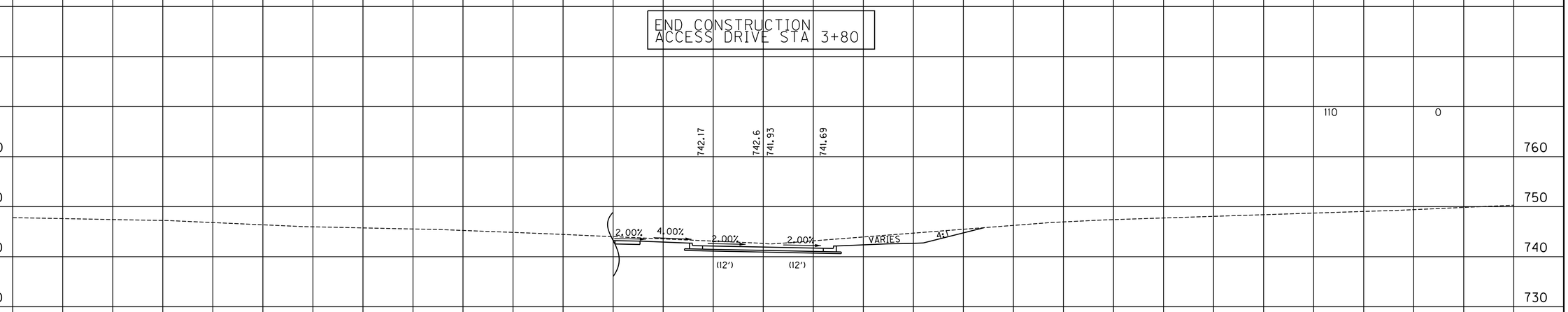
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X21

	VOLUME (CUBIC YARDS)	
	COM	EMB
APPLE PATCH PACE	5389	4807
PARK AND RIDE	2233	1802
ACCESS DRIVE TOTALS	272	26
PROJECT TOTALS	7894	6635

	VOLUME (CUBIC YARDS)	
	COM	EMB
ACCESS DRIVE TOTALS	272	26

END CONSTRUCTION
ACCESS DRIVE STA 3+80



4+50

Earthwork (Sq. ft)	Total
Com	118
Emb	0

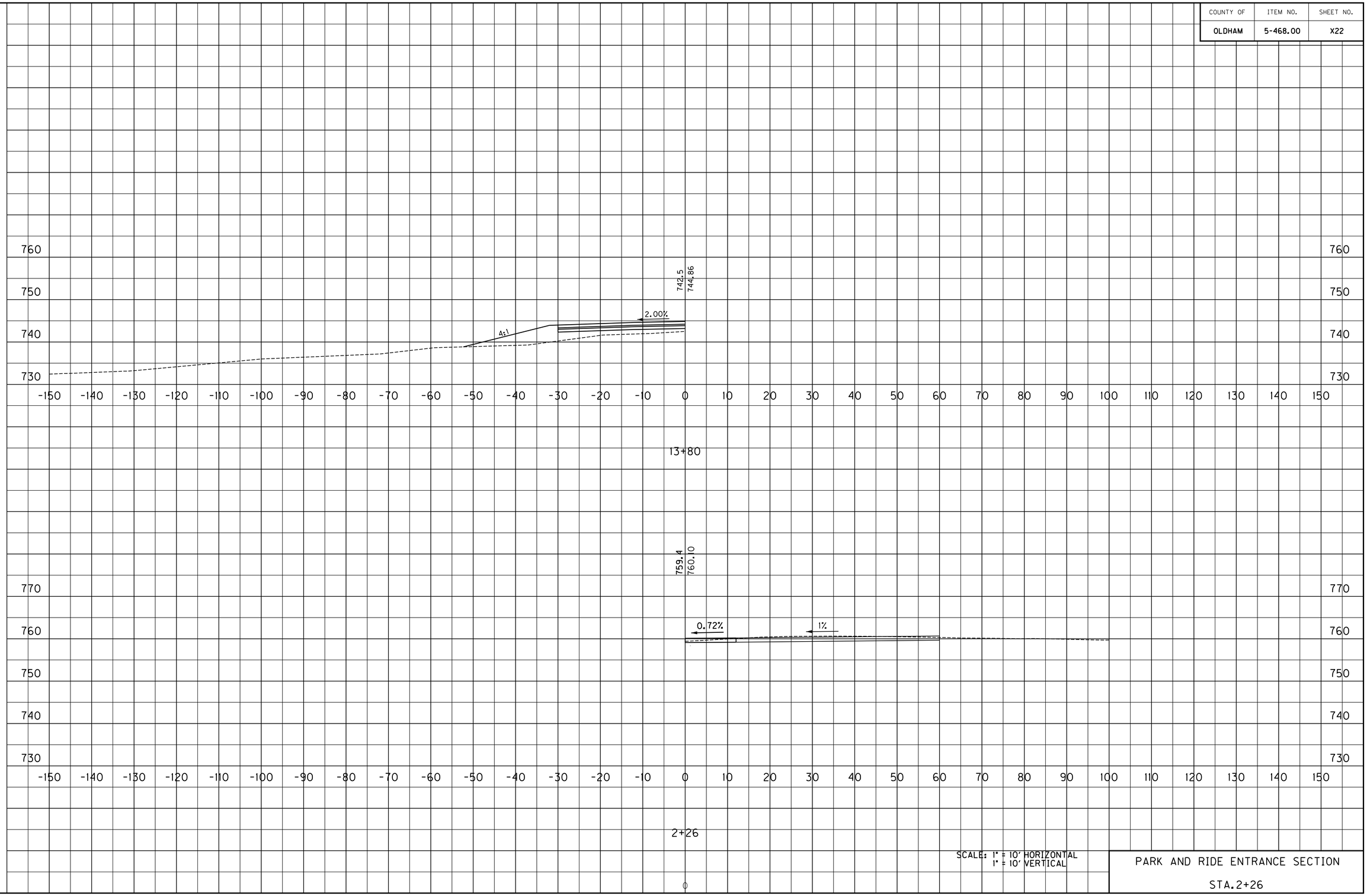
0

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

ACCESS DRIVE
CROSS SECTIONS
STA.4+50 TO STA.5+00

FILE NAME: O:\PROJECT\O\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD
USER: URS Corporation
DATE PLOTTED: January 25, 2018
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X22



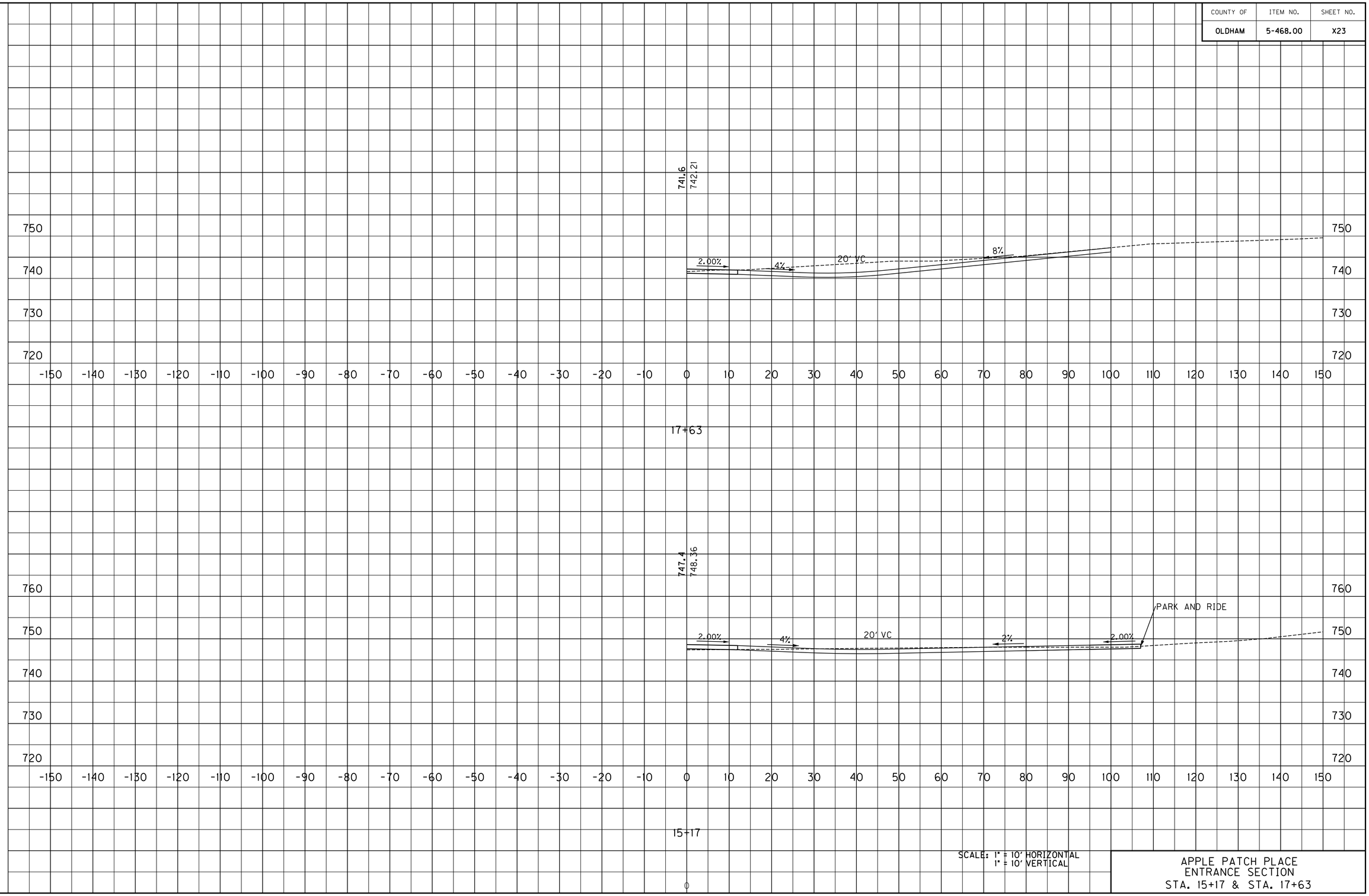
SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

PARK AND RIDE ENTRANCE SECTION

STA.2+26

MicroStation v8.11.7.443
E-SHEET NAME:
USER: ****
DATE PLOTTED: November 7, 2018
FILE NAME: G:\LOUISVILLE\DGS\PROJECTS\O\OLDHAM_COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CENTRAC

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-468.00	X23



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

APPLE PATCH PLACE
ENTRANCE SECTION
STA. 15+17 & STA. 17+63

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: **** DATE PLOTTED: January 25, 2018 | FILE NAME: O:\PROJECT\OLDHAM.COUNTY\15009123 - PARK AND RIDE - APPLE PATCH\DATA-TECH\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROAD

LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT

APPLE PATCH DEVELOPMENT FORCE MAIN RELOCATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTRURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EPSC PLAN MUST BE REVIEWED AND APPROVED BY MSD'S PRIVATE DEVELOPMENT REVIEW OFFICE. EPSC BMP'S (BEST MANAGEMENT PRACTICES) SHALL BE INSTALLED PER THE PLAN AND MSD STANDARDS.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AWAY FROM THE STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USEOF SILT FENCE.

WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICAL, BUT NO LATER THAN 14 DAYS AFTER THE ACTIVITY HAS CEASED.

SEDIMENT LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.

RELOCATION OF THE 4-INCH SANITARY SEWER FORCE MAIN IS INCLUDED IN THE KYTC ROADWAY PROJECT, THEREFORE EROSION PREVENTION AND SEDIMENT CONTROL ARE ADDRESSED IN THE ROADWAY PLAN SET.

LOUISVILLE METROPOLITAN SEWER DISTRICT NOTES

MSD DOES NOT WARRANT THE DESIGN OR COMPUTATIONS CONTAINED IN THIS PLAN. THE CORRECTNESS OR ACCURACY OF ALL ENGINEERING COMPUTATIONS REMAIN THE SOLE RESPONSIBILITY OF THE APPLICANT'S DESIGN PROFESSIONALS. MSD'S APPROVAL TO PROCEED WITH CONSTRUCTION IS BASED SOLELY ON THAT DESIGN PROFESSIONAL'S SEAL AND SIGNATURE.

ALL STORM DRAINAGE SHALL CONFORM TO MSD STANDARD SPECIFICATIONS.

GENERAL NOTES

THE LOUISVILLE METROPOLITAN SEWER DISTRICT (MSD) STANDARD SPECIFICATION AND STANDARD DRAWINGS SHALL APPLY.

SEWERAGE FROM THIS PROJECT SHALL CONTINUE BEING TREATED AT THE HITE CREEK WQTC.

MSD SHALL INSPECT ALL SEWER CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE EXISTING FORCE MAIN REMAINS IN SERVICE AND OPERATIONAL THROUGHOUT CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING FLOW WHEN THE RELOCATED FORCE MAIN IS TIED IN.

THE CONTRACTOR IS RESPONSIBLE FOR UPDATING THE AS-BUILT DRAWINGS ONCE CONSTRUCTION IS COMPLETE AND SUBMITTING THESE TO MSD FOR RECORD (MSD RECORD NO. 14305).

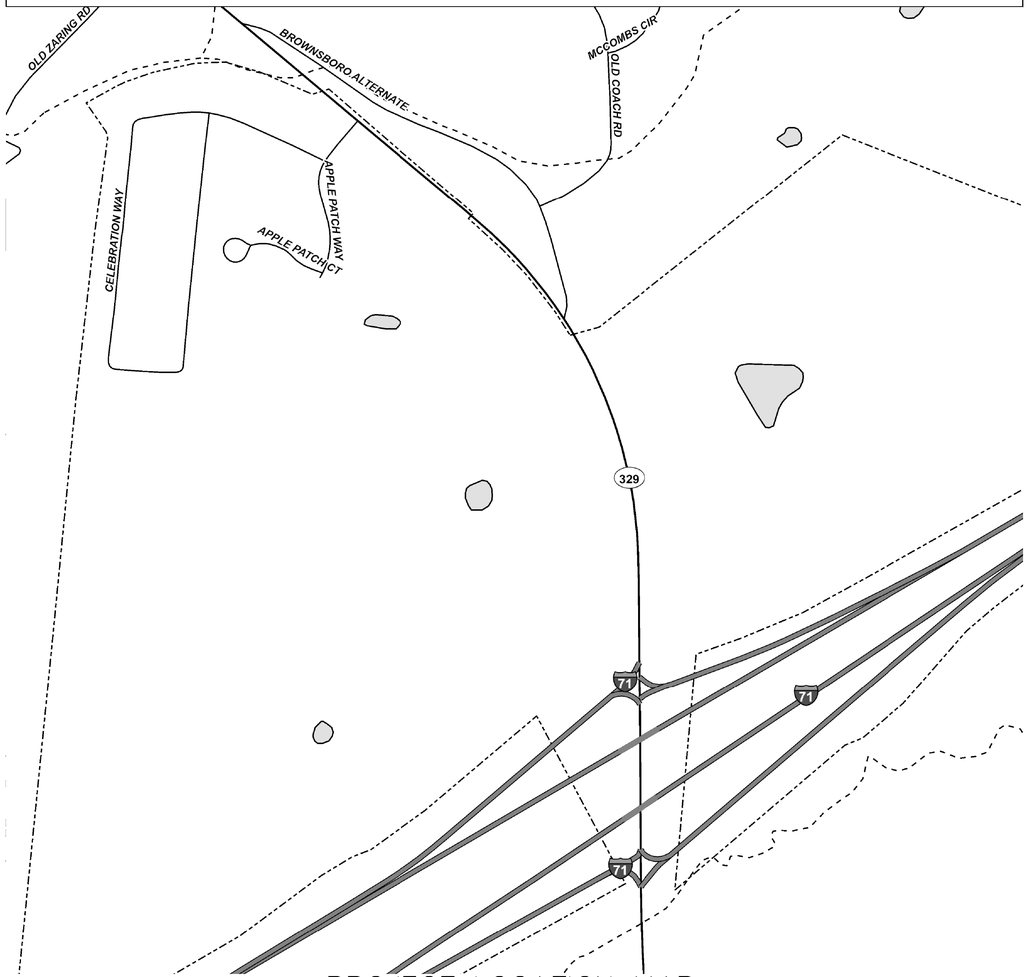
UTILITY NOTES

THE CONTRACTOR SHALL CONTACT KENTUCKY CALL BEFORE YOU DIG (TELEPHONE 811) AND THE OWNERS OF UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF THIS SERVICE. THE ABOVE MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO BUSINESS DAYS PRIOR TO START OF CONSTRUCTION.

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR THE DEPTHS OF THE UNDERGROUND FACILITY SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION.

The New Look For Digging Safely in Kentucky
Kentucky 811
Call 811 Before You Dig

PROJECT LOCATION MAP



PROJECT LOCATION MAP

NOT TO SCALE

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
U1	SITE LOCATION, DRAWING INDEX AND GENERAL NOTES
U2	PLAN
U3	PROFILE
U4	DETAILS

MSD STANDARD DRAWINGS

NO.	DRAWING TITLE
GC-02-01	CRUSHED STONE ENCASEMENT
PR-04-01	TRENCH BACKFILL FOR PIPE WITHIN A ROADWAY EMBANKMENT
GC-03-01	CONCRETE CAP

GENERAL SUMMARY (SANITARY SEWER MODIFICATION)

ITEM	DESCRIPTION	UNIT	QUANTITY	TOTAL PROJECT
23013EN	SANITARY SEWER FORCE MAIN	LF	144.2	144.2
21353ND	TIE-IN TO FORCE MAIN	EA	2	2
03544	BEND 22.50 DEG 4 IN.	EA	2	2

NAME	DATE
DRAWN BY: DS	06/20/2014
DESIGNED BY: MR	06/20/2014
CHECKED BY: HD	06/20/2014
RECORD DWG: XXX	

NO.	DATE	REVISION	CHK'D	APPR'D	DATE
			MSD APPROVALS		

Signature Date — LAND SURVEYOR'S SEAL

Signature Date — PROFESSIONAL ENGINEER'S SEAL

PLANS PREPARED AND SUBMITTED BY:

URS Corporation
Waterfront Plaza Tower One
325 West Main Street, Suite 1200
Louisville, Kentucky 40202-4251

DESIGN CONSULTANT

CONSTRUCTED BY:

Company Name Date

Company Name

Signature Date

FINAL RECORD DRAWING

Signature Date — PROFESSIONAL ENGINEER'S SEAL

LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT

DESIGN APPROVED: _____

APPROVED FOR CONSTRUCTION: _____ DIRECTOR OF ENGINEERING DATE

MSD APPROVALS

MSD
Louisville and Jefferson County Metropolitan Sewer District
700 W. Liberty Street
Louisville, Kentucky 40203-1913
(502) 587-0603 • www.msdlouky.org

SITE LOCATION
DRAWING INDEX, AND GENERAL NOTES

SCALE: AS SHOWN | DATE: 06/20/2014 | DRAWING NO.: U1

MSD Record No. 14305

NOTES:

1. FORCE MAIN PIPE SHALL MEET ALL REQUIREMENTS OF AWWA C900 FOR PVC PIPE AND FITTINGS, DR18, CLASS 150.

2. JOINTS SHALL BE GASKET, BELL AND SPIGOT, PUSH-ON TYPES PER AWWA C900.

3. GASKETS SHALL MEET REQUIREMENTS OF ASTM F477 FOR ELASTOMETRIC SEALS (GASKETS) FOR JOINING PVC PIPE.

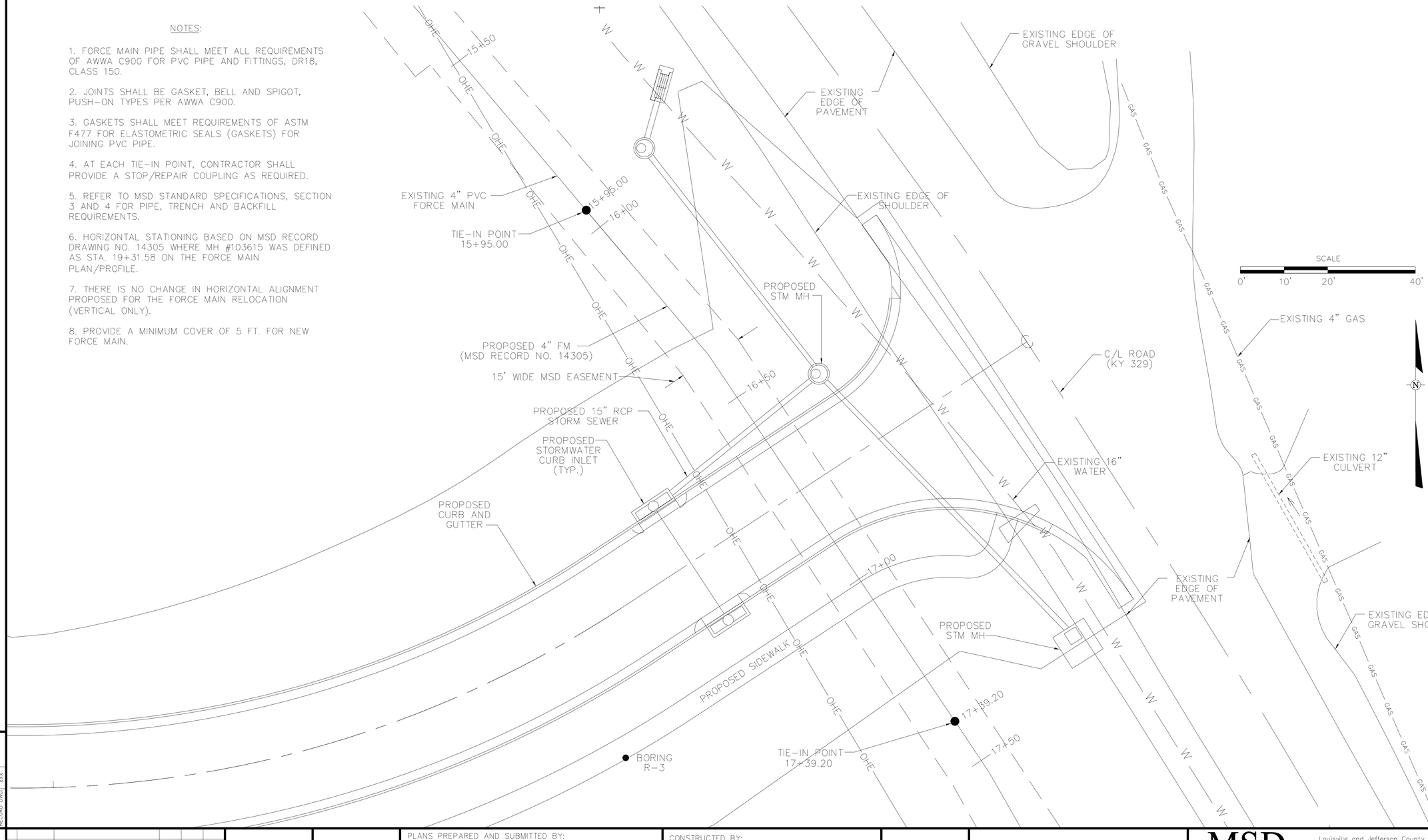
4. AT EACH TIE-IN POINT, CONTRACTOR SHALL PROVIDE A STOP/REPAIR COUPLING AS REQUIRED.

5. REFER TO MSD STANDARD SPECIFICATIONS, SECTION 3 AND 4 FOR PIPE, TRENCH AND BACKFILL REQUIREMENTS.

6. HORIZONTAL STATIONING BASED ON MSD RECORD DRAWING NO. 14305 WHERE MH #103615 WAS DEFINED AS STA. 19+31.58 ON THE FORCE MAIN PLAN/PROFILE.

7. THERE IS NO CHANGE IN HORIZONTAL ALIGNMENT PROPOSED FOR THE FORCE MAIN RELOCATION (VERTICAL ONLY).

8. PROVIDE A MINIMUM COVER OF 5 FT. FOR NEW FORCE MAIN.



	NAME	DATE
DRAWN BY:	DS	06/20/2014
DESIGNED BY:	MR	06/20/2014
CHECKED BY:	KD	06/20/2014
RECORD DWG:	XXX	

NO.	DATE	REVISION	CHK'D	APPR'D	DATE
			MSD APPROVALS		

Signature Date
LAND SURVEYOR'S SEAL

Signature Date
PROFESSIONAL ENGINEER'S SEAL

PLANS PREPARED AND SUBMITTED BY:
DESIGN CONSULTANT

CONSTRUCTED BY:
Company Name Date
Company Name
Signature Date
FINAL RECORD DRAWING

Signature Date
PROFESSIONAL ENGINEER'S SEAL

LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT

DESIGN APPROVED: _____

APPROVED FOR CONSTRUCTION: _____
DIRECTOR OF ENGINEERING DATE

MSD APPROVALS

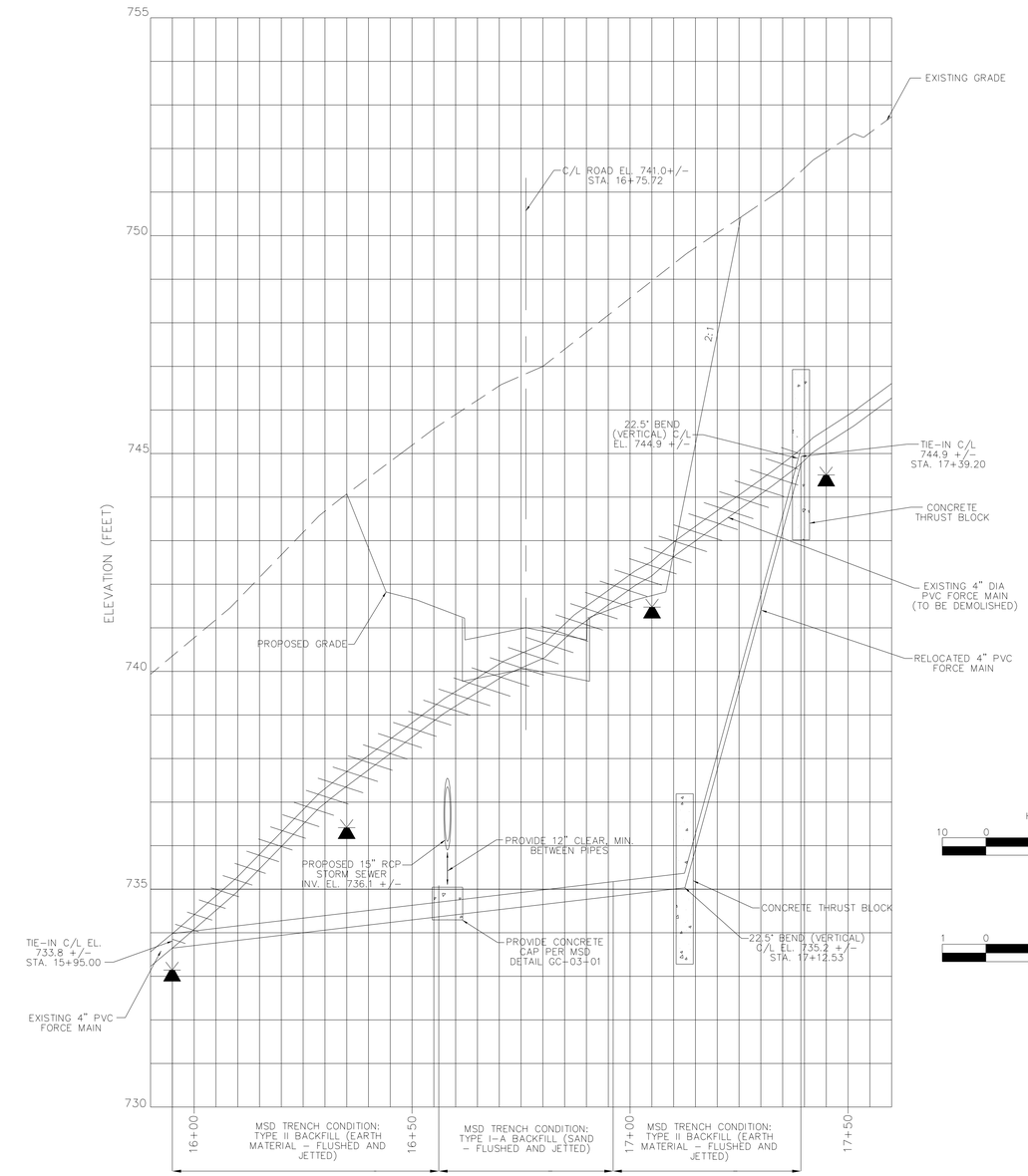
MSD

Louisville and Jefferson County
Metropolitan Sewer District
700 W. Liberty Street
Louisville, Kentucky 40203-1913
(502) 587-0603 • www.msdlouky.org

APPLE PATCH FORCE MAIN RELOCATION PLAN

SCALE: AS SHOWN | DATE: 06/20/2014 | DRAWING NO.: U2

MSD Record No. 14305



NOTES:

1. FORCE MAIN PIPE SHALL MEET ALL REQUIREMENTS OF AWWA C900 FOR PVC PIPE AND FITTINGS, DR18, CLASS 150.

2. JOINTS SHALL BE GASKET, BELL AND SPIGOT, PUSH-ON TYPES PER AWWA C900.

3. GASKETS SHALL MEET REQUIREMENTS OF ASTM F477 FOR ELASTOMETRIC SEALS (GASKETS) FOR JOINING PVC PIPE.

4. AT EACH TIE-IN POINT, CONTRACTOR SHALL PROVIDE A STOP/REPAIR COUPLING AS REQUIRED.

5. REFER TO MSD STANDARD SPECIFICATIONS, SECTION 3 AND 4 FOR PIPE, TRENCH AND BACKFILL REQUIREMENTS.

6. HORIZONTAL STATIONING BASED ON RECORD DRAWING NO. 14305 WHERE MH #103615 WAS DEFINED AS STA. 19+31.58 ON THE FORCE MAIN/PROFILE.

7. PROVIDE A MINIMUM COVER OF 5 FT. FOR NEW FORCE MAIN.

8. BASED ON THE NEAREST SOIL/ROCK BORING R3, APPROXIMATE TOP OF BEDROCK ELEVATIONS ARE SHOWN ON PROFILE.

HORIZONTAL SCALE

10 0 20 50

VERTICAL SCALE

1 0 2 5

	NAME	DATE
DRAWN BY:	DS	06/20/2014
DESIGNED BY:	MR	06/20/2014
CHECKED BY:	KD	06/20/2014
RECORD DWG:	XXX	

NO.	DATE	REVISION	CHK'D	APPR'D	DATE
			MSD APPROVALS		

Signature Date
LAND SURVEYOR'S SEAL

Signature Date
PROFESSIONAL ENGINEER'S SEAL

PLANS PREPARED AND SUBMITTED BY:
DESIGN CONSULTANT

CONSTRUCTED BY:
Company Name Date
Company Name
Signature Date
FINAL RECORD DRAWING

Signature Date
PROFESSIONAL ENGINEER'S SEAL

LOUISVILLE AND JEFFERSON COUNTY
METROPOLITAN SEWER DISTRICT

DESIGN APPROVED: _____

APPROVED FOR CONSTRUCTION: _____
DIRECTOR OF ENGINEERING DATE

MSD APPROVALS

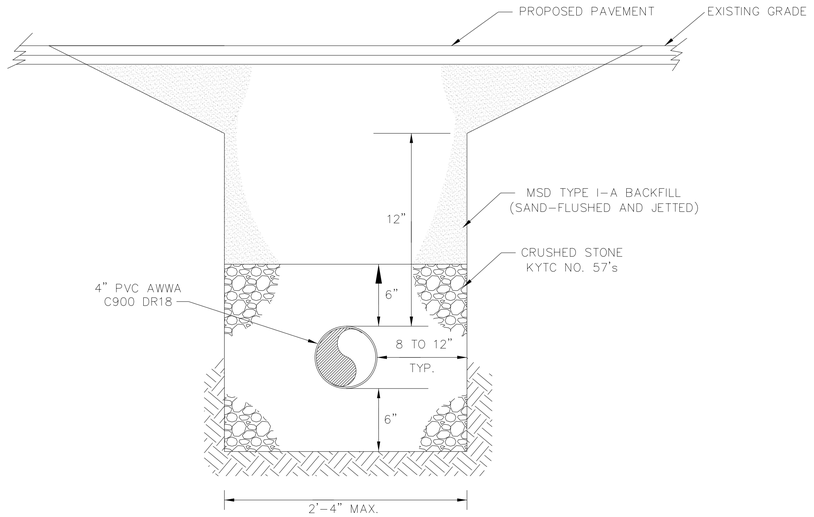
MSD

Louisville and Jefferson County
Metropolitan Sewer District
700 W. Liberty Street
Louisville, Kentucky 40203-1913
(502) 587-0603 • www.msdlouky.org

APPLE PATCH FORCE MAIN RELOCATION PROFILE

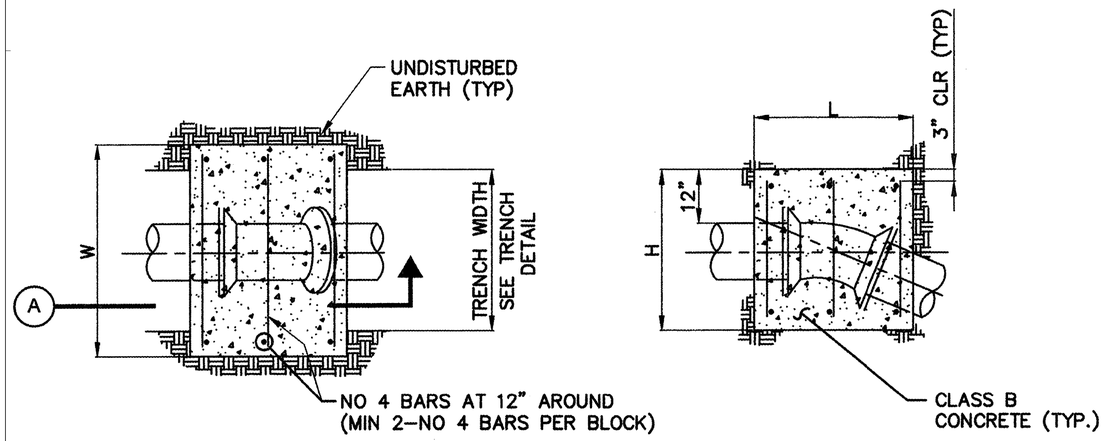
SCALE: AS SHOWN | DATE: 06/20/2014 | DRAWING NO.: U3

MSD Record No. 14305



PIPE TRENCH DETAIL

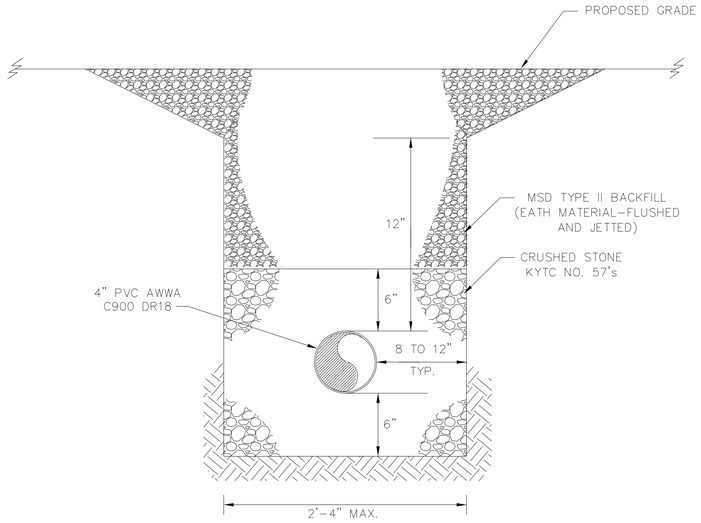
UNDER ROADWAY OR INFLUENCED BY ROADWAY
NOT TO SCALE



PLAN

SECTION A

2,500 PSI MIN.



PIPE TRENCH DETAIL

NOT UNDER ROADWAY OR INFLUENCED BY ROADWAY
NOT TO SCALE

SIZE OF PIPE	DEGREE OF BEND												
	11-1/4°			22-1/2°			45°			90°			
	L	W	H	L	W	H	L	W	H	L	W	H	
3"	12	27	27	13	27	27	18	30	27	25	30	27	*
4"	12	28	28	16	30	28	22	36	28	27	48	28	
6"	12	48	30	16	52	30	30	48	30	37	54	36	
8"	12	63	32	18	60	32	36	57	33	47	60	46	
12"	20	54	36	37	62	37	48	62	51	66	66	66	
16"	31	65	38	60	65	39	65	65	65	72	96	72	
20"	45	70	40	56	70	60	72	76	78	86	108	84	
24"	41	72	54	67	74	69	88	84	84	96	120	96	

* BASED UPON 150 PSI TEST PRESSURE

THRUST BLOCK DETAILS - VERTICAL BENDS

NOT TO SCALE

	NAME	DATE
DRAWN BY:	DS	06/20/2014
DESIGNED BY:	MR	06/20/2014
CHECKED BY:	KD	06/20/2014
RECORD DWG	XXX	

NO.	DATE	REVISION	CHK'D	APPR'D	DATE
			MSD APPROVALS		

LAND SURVEYOR'S SEAL — Signature, Date

PROFESSIONAL ENGINEER'S SEAL — Signature, Date

PLANS PREPARED AND SUBMITTED BY:

DESIGN CONSULTANT

CONSTRUCTED BY:

Company Name — Date

Company Name

Signature — Date

FINAL RECORD DRAWING

PROFESSIONAL ENGINEER'S SEAL — Signature, Date

LOUISVILLE AND JEFFERSON COUNTY
METROPOLITAN SEWER DISTRICT

DESIGN APPROVED: _____

APPROVED FOR CONSTRUCTION: _____
DIRECTOR OF ENGINEERING — DATE

MSD APPROVALS

MSD
Louisville and Jefferson County
Metropolitan Sewer District
700 W. Liberty Street
Louisville, Kentucky 40203-1913
(502) 587-0603 • www.msdlouky.org

APPLE PATCH FORCE MAIN RELOCATION DETAILS

SCALE: AS SHOWN | DATE: 06/20/2014 | DRAWING NO.: U4

MSD Record No. 14305

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM		L1

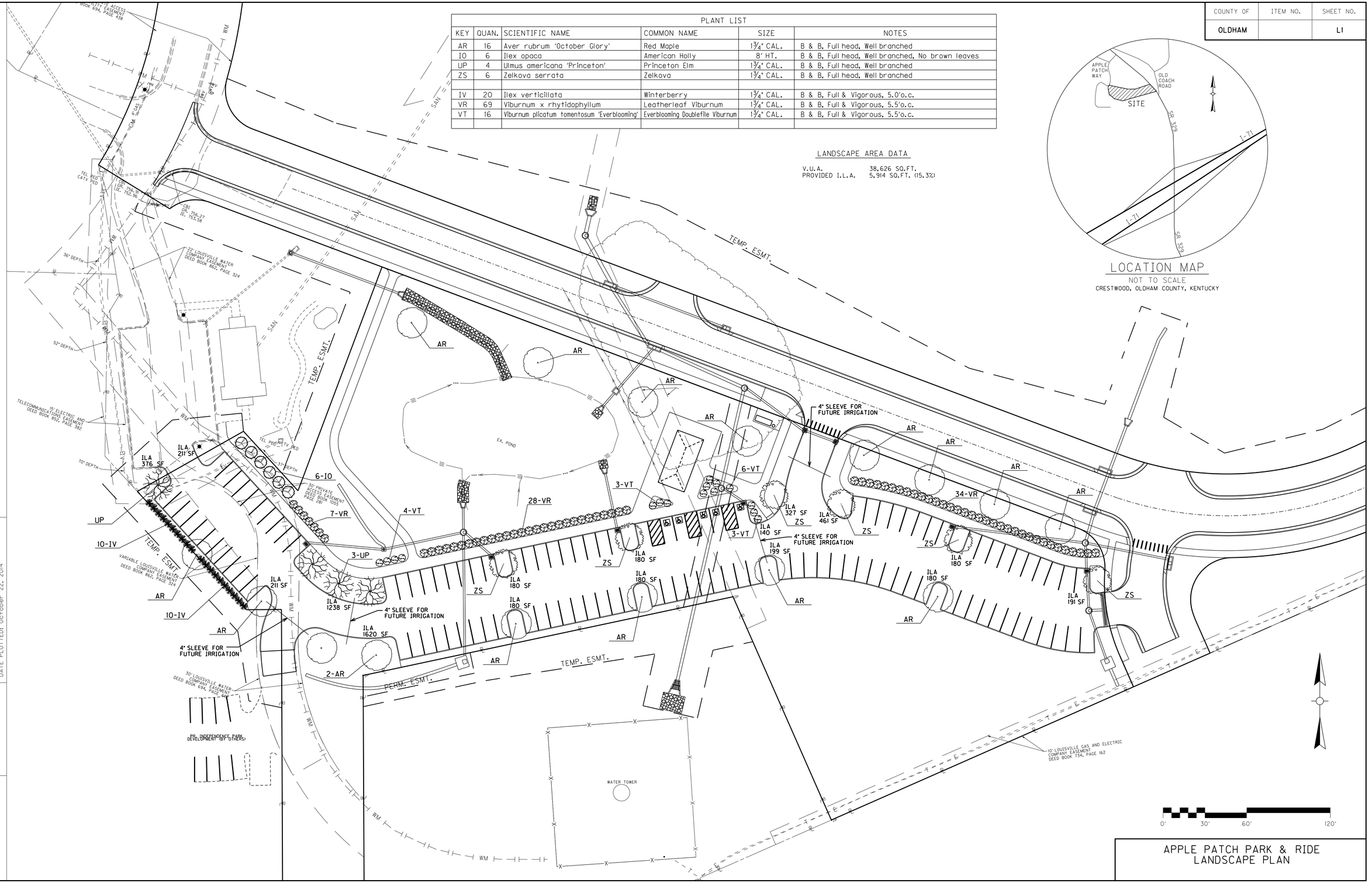
PLANT LIST

KEY	QUAN.	SCIENTIFIC NAME	COMMON NAME	SIZE	NOTES
AR	16	Aver rubrum 'October Glory'	Red Maple	1¾" CAL.	B & B, Full head, Well branched
IO	6	Ilex opaca	American Holly	8' HT.	B & B, Full head, Well branched, No brown leaves
UP	4	Ulmus americana 'Princeton'	Princeton Elm	1¾" CAL.	B & B, Full head, Well branched
ZS	6	Zelkova serrata	Zelkova	1¾" CAL.	B & B, Full head, Well branched
IV	20	Ilex verticillata	Winterberry	1¾" CAL.	B & B, Full & Vigorous, 5.0'o.c.
VR	69	Viburnum x rhytidophyllum	Leatherleaf Viburnum	1¾" CAL.	B & B, Full & Vigorous, 5.5'o.c.
VT	16	Viburnum plicatum tomentosum 'Everblooming'	Everblooming Doublefile Viburnum	1¾" CAL.	B & B, Full & Vigorous, 5.5'o.c.

LANDSCAPE AREA DATA

V.U.A. 38,626 SQ.FT.
PROVIDED I.L.A. 5,914 SQ.FT. (15.3%)

LOCATION MAP
NOT TO SCALE
CRESTWOOD, OLDHAM COUNTY, KENTUCKY



APPLE PATCH PARK & RIDE
LANDSCAPE PLAN

MicroStation v8.11.7.180 | E-SHEET NAME: L0010OPL | USER: cmount DATE PLOTTED: October 22, 2014 | FILE NAME: F:\2012\20009-APPLE PATCH\LANDSCAPE\L0010OPL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM		L2

LANDSCAPE SPECIFICATIONS

GENERAL

All Landscape work shall be in accordance with Section 724-"Planting Vines, Shrubs and Trees", Section 212-"Erosion Control" and Section 827-"Erosion Contol Material" of the Kentucky Transportation Cabinet's "Standard Specifications for Road and Bridge Construction", current edition. The specifications on this sheet are meant to supplement the Standard Specifications. Where conflicts exist between the Standard Specifications and those on this sheet, the specifications on this sheet shall govern.

PREPARATION OF PLANT AREAS

PROTECTION OF EXISTING PROPERTY

It shall be the responsibility of the Landscape Contractor to determine and/or verify the location of existing pipe lines and utilities of every type below, on or above ground which may interfere with his operations. He shall enter into the Contract in full understanding of the conditions that may be encountered and his responsibility in connection therewith. Upon award of the Contract, the Landscape Contractor shall inform the Project Engineer of any such utilities and structures that his plan of operations may affect in sufficient time to arrange for the work of removing, relocating, or reconstructing as may be necessary. The Landscape Contractor shall be responsible for the protection and preservation of existing improvements, including necessary removal and storage of such improvements, and subsequent replacement to maintain to the fullest extent possible the undisturbed condition.

All existing pipes, poles, wires, cable, fences, property line markers, and other structures, which must be preserved in place without being temporarily or permanently relocated, shall be carefully supported and protected from damage by the Landscape Contractor. Should such items be damaged, they shall be restored by their respective owner at the expense of the Landscape Contractor to at least as good con- dition as that in which they were found immediately before the work was begun. Bench marks and other reference points shall be carefully maintained, and if disturbed or destroyed, shall be reported by the Contractor to the satisfaction of the Project Engineer and at no additional cost to the Owner.

On paved surfaces the Landscape Contractor shall not use or operate tractors, bulldozers, or other power-operated equipment which would damage such surfaces. All surfaces which have been damaged by the Landscape Contractor's operations shall be restored to a condition at least equal to that in which they were found immediately before work was begun. Suitable materials and methods shall be used for such restoration.

CLEARING AND RAKING

All trees, brush, logs, snags, leaves, sawdust, bark, weeds, rubbish and all other obstructions resting on or protruding through the surface of the existing ground in planting areas, shall be collected and satisfactorily disposed of on-site. All such material at proposed tree locations shall be removed to a depth of one foot below bottom of proposed tree pit. All stumps, including the major root systems, shall be removed and the area grubbed.

Where excavation for proposed trees is done within the areas to be cleared and raked, all stumps and roots over 2-inches in diameter and deleterious material thereby exposed shall be removed to a depth of one foot below the excavated tree pit.

STRIPPING TOPSOIL

Topsoil suitable for final planting backfill may be stripped and stockpiled in suitable areas for reuse for such purposes by the Landscape Contractor.

SILTATION AND EROSION

The Landscape Contractor shall take steps and make suitable provisions to minimize siltation and erosion which may result directly or indirectly from his operations during the course of his work.

DISPOSITION OF DEBRIS

Debris resulting from the landscape work shall be removed from the site as soon as practical and shall not be left until the completion of the Contract.

Burning of debris will not be permitted.

EXCESS MATERIAL

Debris resulting from the landscape work shall be removed from the site as soon as practical and shall not be left until the completion of the Contract.

PLANTING

SCOPE

The extent of the work shall include provision of plant material and all labor, equipment and materials necessary to complete the operations as shown on the Drawings and as specified hereinafter, and including guarantees covering and replacement of all plant materials damaged or destroyed during the course of work and the guarantee period.

GENERAL REQUIREMENTS

The top of plant pits (bottom of saucers) when completed and settled shall either be level or uniformly sloped to points no higher or lower than two (2) inches from the adjacent finish grade.

Nomenclature: Conform to the names given in Standardized Plant Names, 1974 edition, prepared by the American Joint Committee on Horticultural Nomenclature. Names of varieties not included therein conform generally with names accepted in the nursery trade.

Quality: Plants shall have a habit of growth that is normal for the species and shall be sound, healthy, vigorous and free from insect pests, plant diseases and injuries. Plants shall be heavily branched and heavily leafed. All plants shall be nursery grown and shall have been growing under the same climatic conditions as the Jefferson County, Kentucky, area for at least two (2) years prior to installation of this job. Requirements for the size (height) of plants in the plant list generally follow the Code of Standards currently recommended by the American Standard for Nursery Stock.

PRODUCT STORAGE AND HANDLING

Product Shipping: Shipping of plant material shall be undertaken on temperate days with the high temperature not to exceed eighty (80) degrees F during periods of truckage.

All plants shall be transported and handled with utmost care to insure adequate protection against injury and shall be protected from prolonged exposure to heat or high winds while in route or awaiting installation.

Temporary Storage: Insofar as is practicable, plant material shall be planted on the day of delivery to the job site. In the event this is not possible, the Landscape Contractor shall protect the stock not planted.

Protect plants at all times from the sun or drying winds. Plants that cannot be planted immediately upon delivery shall be kept in the shade, well protected with soil, wet moss or other acceptable materials and shall be kept well watered. Plants shall not remain unplanted for longer than three (3) days after delivery.

Plants shall not be bound with wire or roped at any time so as to damage the bark or break branches. Plants shall be handled with support to the bottom of the root zone.

INSTALLATION

Time of Planting: Planting operations shall be undertaken in accordance with the schedule determined by the Project Engineer.

Thereafter, planting operations shall be conducted under favorable weather conditions. At the Contractor's option and under his full responsibility, planting operations may be conducted under unseasonable conditions without additional compensation.

Planting Pattern: Planting groupings are to be located as indicated on the Plans.

Plantings shall be located where they are shown on the Plans except where unforeseen obstructions overhead or below ground are encountered or where other authorized changes by the Project Engineer are made. Prior to excavation of planting areas or plant pits, the Landscape Contractor shall ascertain the location of utility lines, cables and conduits so that proper precautions may be taken not to disturb or damage any subsurface conditions. Should obstructions be found, the Landscape Contractor shall promptly notify the Project Engineer who will arrange to relocate the plant material.

Pruning: Above-Ground Pruning: All plants shall be neatly pruned and/or clipped to preserve the natural characteristics of the species, and in a manner appropriate to the particular requirements of the plant. No plants shall be pruned prior to delivery to the job site. Broken or badly damaged branches shall be cleanly removed both prior to and after installation, unless damage occurring to the plant during installation, in the judgement of the Project Engineer, warrants the plant's replacement.

Root Pruning: Root pruning shall be undertaken with extreme care. No root pruning shall occur prior to arrival of plant material on the job site. If directed by the Project Engineer, pruning of the root system should be undertaken cleanly, removing deleterious root material prior to placement in the plant pit.

Setting Plants: Proposed plant pits shall be positively identified prior to digging and should be marked by the Landscape Contractor to the satisfaction of himself, or in the case of a dispute, the Project Engineer. Each plant shall be set one (1) to a hole as specified. All holes shall be dug as indicated by the Details with straight vertical sides and topsoil crowned at the bottoms and tamped to a minumum of six (6) inches to reduce possible settlement. The height and width of the plant pit shall be a minimum of one and one-half (1-1/2) times larger than the pruned root was just prior to installation. The tamped crown shall be adjusted in height to allow the plant to be installed to the grade (bottom of saucer) at which it grew at the nursery; however, the crown shall be no lower than six (6) inches.

Inspection: No plant material shall be planted by the Contractor until it is inspected by the Project Engineer. The Project Engineer shall be the sole judge of the quality and acceptability of the materials. All rejected material shall be immediately removed from the site and replaced with acceptable material at no additional cost.

BACKFILLING

Use topsoil, free from rocks and other debris, as shall be found on the project site, or as is needed from off-site sources. Existing subsoil unacceptable for backfill is to be raked by the Contractor to achieve grade of surrounding area adjacent to the plant pit. Plant pits shall be backfilled carefully to fill all voids and to avoid breaking or bruising of roots. Tamp backfill firm to prevent settlement. When pit is nearly filled, water thoroughly and allow water to soak away. If settling of the backfill occurs after watering, add more backfill to bring to finish grade. After completion of backfilling, utilize surrounding topsoil outside the area excavated for the plant pit to form an earthen saucer around said excavation area. Earth saucer should be tamped in place to achieve a minimum height above the adjacent grade of six (6) inches. Plant- ing mixture shall be four (4) parts topsoil and one (1) part approved commercial horticultural peat moss.

GUYING AND WRAPPING

Guying: Trees over seven (7) feet in height shall, immediately after being set to proper grade, be staked in the manner detailed. Wires shall be protected from direct contact with tree trunks by a rubber hose sleeve installed as shown on the Details. Staking shall be undertaken as shown on the Drawings utilizing 2" X 2" hardwood lumber.

Wrapping: Trunks of all deciduous trees shall be wrapped to the lower branches with kraft paper or other approved material providing the same purpose. Wrapping shall be continuous over the entire trunk area to, or below, finish grade surrounding the trees, and shall be securely fastened and held in place by nylon twine.

MULCHING

After planting has been approved by the Project Engineer, a layer of hardwood mulch three inches (3") thick shall be placed on the finished grade around all plants. The boundaries of mulch around trees shall be six inches (6") greater in diameter than that of the hole. All shrub beds shall be completely covered with a similar material, neatly forming an imaginary tangent line touching the outside mature diameter of shrubs as indicated on the Plans.

HERBICIDE

Use locally recommended herbicide in accordance with instructions on the manufacturer's label.

MAINTENANCE, INSPECTION, GUARANTEES AND REPLACEMENTS

The Contractor shall review and approve the maintenance, including watering, weeding and cultivating, upon completion of planting.

The Landscape Contractor's Lump Sum Price shall include maintenance of the job in accordance with the attached maintenance schedule for the twelve (12) month guarantee period.

The Contractor shall also be responsible for resetting of any plants to an upright position or to proper grade, and for the removal and replacement of any dead plant material.

Guarantee: All plants shall be guaranteed to remain alive and healthy for the full twelve (12) month period. Replacements shall be guaranteed an additional (12) months from the date they are reset.

Inspection for Beginning the Guarantee Period: Inspection of the planting work to determine its completion for beginning the guarantee period will be made by the Project Engineer upon notice requesting such inspection by the Landscape Contractor at least seven (7) days prior to the anticipated date. All planting must be alive and healthy in order to be considered complete.

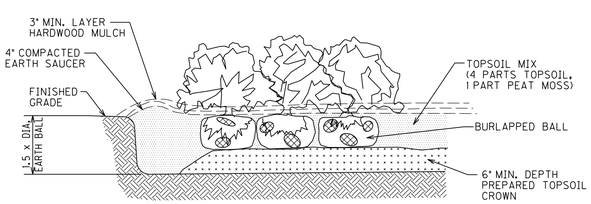
Final Inspection and Replacement: Inspection of the planting to determine its final acceptance will be made at the conclusion of the guarantee period by the Owner. No plants will be accepted unless they are alive and healthy. The Contractor shall replace any plants which are dead or, in the opinion of the Project Engineer or Owner, in an unhealthy condition, and/or have lost their natural shape due to dead branches. The cost of such replacement(s) shall be borne by the Landscape Contractor and shall be included in his Contract Price.

CLEAN-UP

Any soil, peat or similar material which has been brought onto paved areas by hauling operations or otherwise shall be removed promptly, keeping these areas clean at all times. Upon completion of the planting, all excess soil, stone and debris which have not previously been cleaned up shall be removed from the site or disposed of as directed by the Owner. All lawns and planting areas shall be prepared for final inspection.

OTHER WORK

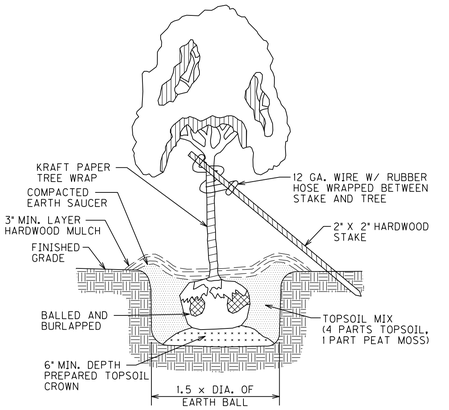
The Contractor also shall be responsible for the repair of any damage caused by his activities or those of his subcontractors, such as the storage of topsoil or other materials, operations or equipment, or other usages to all on-site areas outside the contract limits. Such repair operations shall include any regrading, seeding or other work necessary to restore such areas to an acceptable condition.



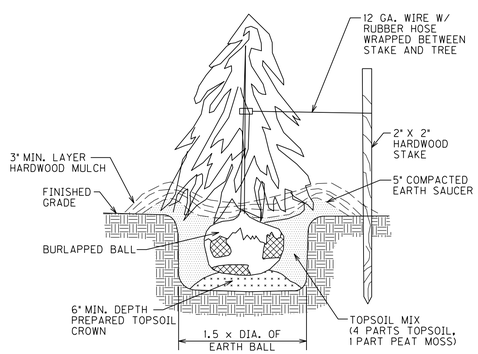
SHRUB PLANTING DETAIL

GENERAL LANDSCAPE NOTES

1. Grass or turf groundcover shall be planted on all areas not occupied by other landscape materials, paving or other hard surface materials.
2. The ground plane of all interior landscape areas (ILA) shall be planted using either shrubs, groundcover or turf.
3. It will be the responsibility of the property owner to perpetually maintain all landscape areas and associated plant material required under Land Development Code regulations. The property owner shall also be responsible for maintaining the verge and associated trees within the verge unless the agency having jurisdiction over that verge assumes that responsibility.
4. All unhealthy or dead plant material shall be replaced by the Contractor within one year, or by the next planting period, whichever comes first.
5. Street trees shall be planted in a manner that does not affect public safety and maintains proper sight distances.



DECIDUOUS TREE
2" CALIPER OR LESS



EVERGREEN TREE

APPLE PATCH PARK & RIDE
LANDSCAPE DETAILS & NOTES

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