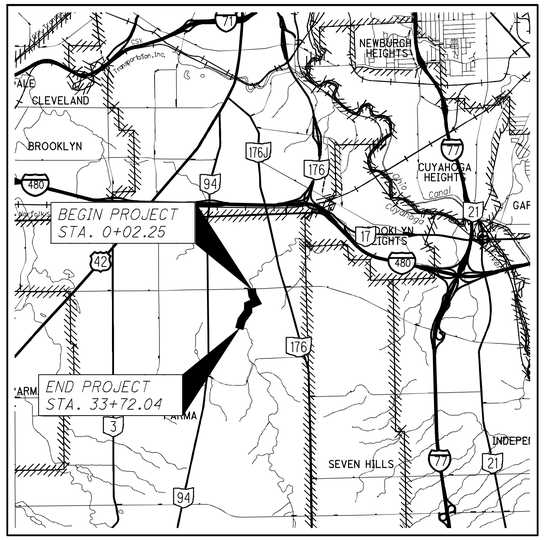
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CUY-SOUTH PARK SHARED USE PATH

CITY OF PARMA
CUYAHOGA COUNTY



LOCATION MAP

LATITUDE: N 41°24'05" LONGITUDE: W 81°42'05"

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED . . . . . ▬▬▬

INTERSTATE & DIVIDED HIGHWAY. . . . . ▬▬▬

UNDIVIDED STATE & FEDERAL ROUTES. . . . . ▬▬▬

OTHER ROADS . . . . . ———

DESIGN DESIGNATION

SOUTH PARK BLVD

DIRECTIONAL DISTRIBUTION.	50%
DESIGN SPEED.	25 MPH (15 MPH SHARED USE PATH)
LEGAL SPEED.	25 MPH (15 MPH SHARED USE PATH)
DESIGN FUNCTIONAL CLASSIFICATION:	07 LOCAL ROAD
NHS PROJECT.	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

OHM ADVISORS, INC.
6001 EUCLID AVE., SUITE 130
CLEVELAND, OH 44103

ENGINEER'S SEAL

STATE OF OHIO
JOSHUA J. SLAGA
E-76770
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Joshua J. Slaga
Date: 2025.09.11 10:18:12-04'00'

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2 - 4
TYPICAL SECTIONS	5 - 6
GENERAL NOTES	7 - 9
MAINTENANCE OF TRAFFIC NOTES	10
GENERAL SUMMARY	11 - 12
SUBSUMMARIES	13 - 17
PROJECT SITE PLAN	18 - 19
PLAN AND PROFILE	20 - 26
CROSS SECTIONS	27 - 36
DRIVEWAY DETAILS	37
DRAINAGE DETAILS	38
SIGNING AND PAVEMENT MARKING	39 - 42
LANDSCAPE PLAN	43 - 47

FEDERAL PROJECT NUMBER

E250 (243)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT CONSTRUCTS A SHARED USE PATH ALONG THE EAST SIDE OF SOUTH PARK BOULEVARD FROM SNOW ROAD TO WALES AVENUE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	1.86 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	2.11 ACRES

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Pamela Boratyn
Pamela Boratyn
Director, Department of Transportation

John Picuri, P.E., P.S.
District 12 Deputy Director

Hasmukh Patel
Hasmukh Patel, P.E.
Parma City Engineer

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	1/19/24	MGS-2.1	7/18/25	TC-41.20	10/18/13		
BP-4.1	7/19/13	MGS-4.2	7/18/25	TC-41.30	4/21/23		
BP-5.1	7/18/25	MGS-4.3	7/18/25	TC-42.20	10/18/13		
BP-7.1	7/18/25			TC-52.10	10/18/13		
		HW-2.1	7/15/22	TC-52.20	1/15/21		
CB-2-2A,	7/19/24	HW-2.2	7/20/18	TC-61.10	4/21/23		
2B, 2C				TC-61.30	7/19/24		
		MT-97.10	7/18/25				
		MT-97.12	7/18/25				
DM-1.1	1/17/25	MT-99.20	4/19/19				
DM-1.2	1/17/25	MT-101.90	7/17/20				
DM-4.2	7/20/12	MT-105.10	1/17/20				
DM-4.4	1/15/16	MT-110.10	7/19/13				

SUPPLEMENTAL SPECIFICATIONS

800	7/18/25
832	7/18/25

SPECIAL PROVISIONS

NONE

TITLE SHEET

DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	1
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GT.dwg

SHARED USE PATH ALIGNMENT DATA									
SEGMENT#	DISTANCE (FT)	RADIUS (FT)	DIRECTION	PC STATION / START	NORTHING	EASTING	PT STATION / END	NORTHING	EASTING
L1	11.02	N/A	S10° 22' 19.21"W	0+00.00	634301.60	2188033.41	0+11.02	634290.76	2188031.43
C1	31.75	65.00	S3° 37' 14.16"E	0+11.02	634290.76	2188031.43	0+42.77	634259.39	2188033.41
C2	45.46	82.00	S1° 43' 52.51"E	0+42.77	634259.39	2188033.41	0+88.23	634214.53	2188034.77
C3	93.46	243.00	S3° 07' 55.15"W	0+88.23	634214.53	2188034.77	1+81.69	634121.78	2188029.69
C4	37.24	71.00	S7° 08' 23.93"W	1+81.69	634121.78	2188029.69	2+18.93	634085.25	2188025.12
C5	43.40	54.00	S0° 51' 19.42"E	2+18.93	634085.25	2188025.12	2+62.33	634043.01	2188025.75
C6	55.43	291.00	S18° 25' 15.58"E	2+62.33	634043.01	2188025.75	3+17.76	633990.51	2188043.24
C7	203.63	280.00	S33° 47' 56.85"E	3+17.76	633990.51	2188043.24	5+21.39	633824.99	2188154.04
C8	597.16	262.94	S10° 25' 42.29"W	5+21.39	633824.99	2188154.04	11+18.55	633356.02	2188067.72
L2	81.45	N/A	S75° 29' 26.04"W	11+18.55	633356.02	2188067.72	12+00.00	633335.62	2187988.87
L3	67.73	N/A	S77° 49' 10.48"W	12+00.00	633335.62	2187988.87	12+67.73	633321.33	2187922.67
C9	129.42	321.00	S66° 16' 10.04"W	12+67.73	633321.33	2187922.67	13+97.15	633269.60	2187804.99
C10	145.72	180.00	S31° 03' 52.02"W	13+97.15	633269.60	2187804.99	15+42.87	633148.15	2187731.84
L4	46.11	N/A	S7° 52' 20.94"W	15+42.87	633148.15	2187731.84	15+88.98	633102.48	2187725.52
L5	119.47	N/A	S1° 19' 34.76"E	15+88.98	633102.48	2187725.52	17+08.45	632983.04	2187728.29
L6	37.59	N/A	S11° 17' 33.38"W	17+08.45	632983.04	2187728.29	17+46.04	632946.18	2187720.93
L7	83.90	N/A	S1° 19' 48.49"E	17+46.04	632946.18	2187720.93	18+29.94	632862.30	2187722.87

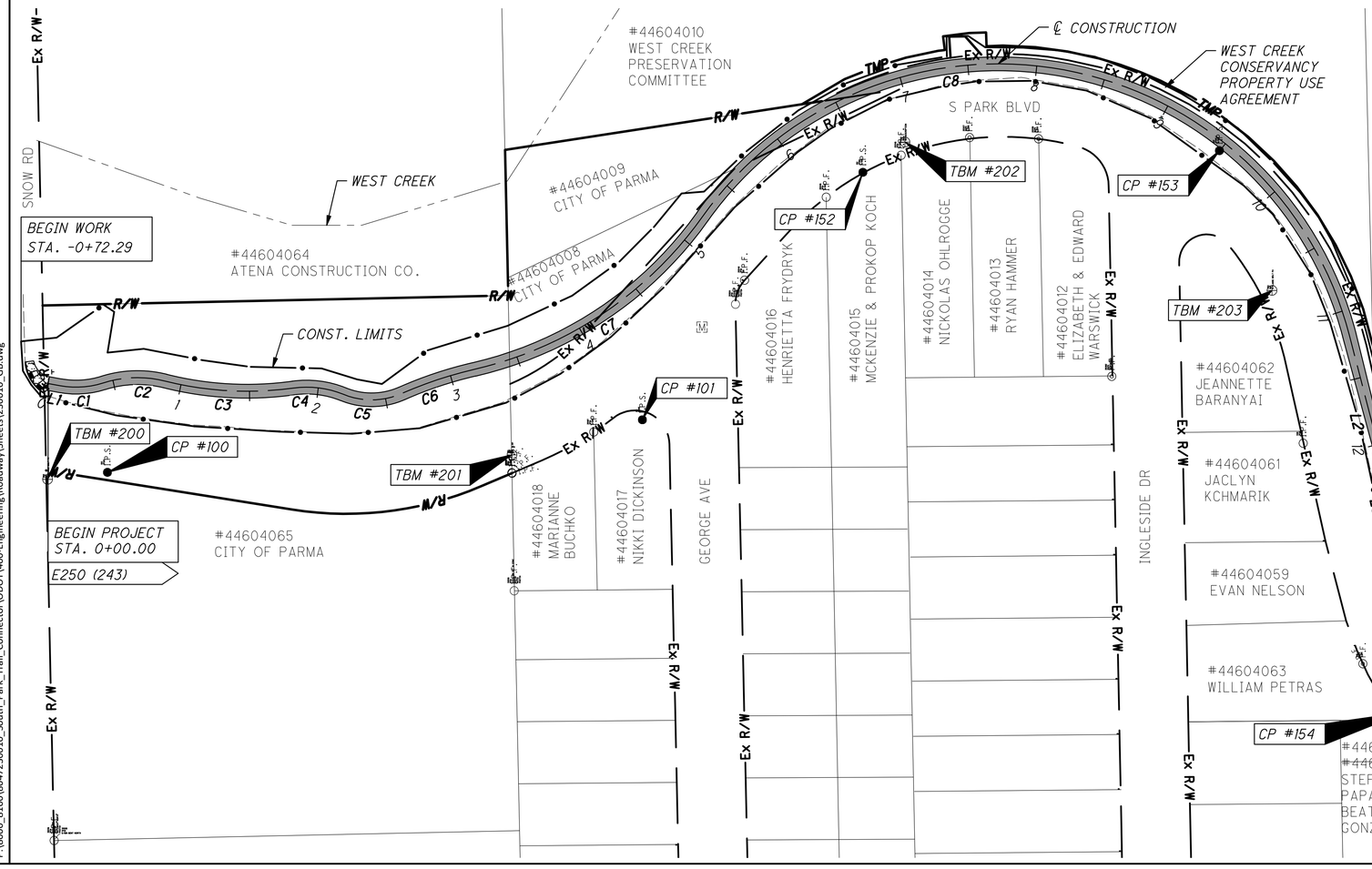
LEGEND:

- ASPHALT SHARED USE PATH
- CONCRETE DRIVE APRON
- CONCRETE WALK

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

NOTES:

FOR PROJECT CONTROL AND BENCHMARKS SEE SHEET 4



SCHEMATIC PLAN
STA. 0+00 TO STA. 18+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GB.dwg

DESIGN AGENCY: OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	2
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GB.dwg

SHARED USE PATH ALIGNMENT DATA									
SEGMENT#	DISTANCE (FT)	RADIUS (FT)	DIRECTION	PC STATION / START	NORTHING	EASTING	PT STATION / END	NORTHING	EASTING
C11	114.41	300.00	S9° 35' 41.31"W	18+29.94	632862.30	2187722.87	19+44.35	632750.17	2187703.92
L8	52.61	N/A	S20° 31' 11.11"W	19+44.35	632750.17	2187703.92	19+96.96	632700.90	2187685.48
C12	123.15	400.00	S29° 20' 22.16"W	19+96.96	632700.90	2187685.48	21+20.11	632593.97	2187625.38
L9	134.91	N/A	S38° 09' 33.16"W	21+20.11	632593.97	2187625.38	22+55.02	632487.89	2187542.02
C13	203.79	500.00	S26° 28' 59.22"W	22+55.02	632487.89	2187542.02	24+58.81	632306.75	2187451.77
L10	481.83	N/A	S14° 48' 25.29"W	24+58.81	632306.75	2187451.77	29+40.63	631840.92	2187328.64
C14	143.35	350.00	S3° 04' 24.96"W	29+40.63	631840.92	2187328.64	30+83.98	631698.78	2187321.00
L11	69.54	N/A	S8° 39' 35.38"E	30+83.98	631698.78	2187321.00	31+53.52	631630.03	2187331.47
C15	57.09	100.00	S25° 00' 50.66"E	31+53.52	631630.03	2187331.47	32+10.61	631579.00	2187355.29
L12	70.41	N/A	S41° 22' 05.95"E	32+10.61	631579.00	2187355.29	32+81.02	631526.15	2187401.82
C16	33.53	50.00	S60° 34' 50.38"E	32+81.02	631526.15	2187401.82	33+14.55	631509.99	2187430.48
L13	28.26	N/A	S79° 47' 34.81"E	33+14.55	631509.99	2187430.48	33+42.81	631504.98	2187458.29
C17	21.87	25.00	S54° 44' 09.12"E	33+42.81	631504.98	2187458.29	33+64.68	631492.76	2187475.58
L14	14.97	N/A	S29° 40' 43.43"E	33+64.68	631492.76	2187475.58	33+79.64	631479.75	2187483.00

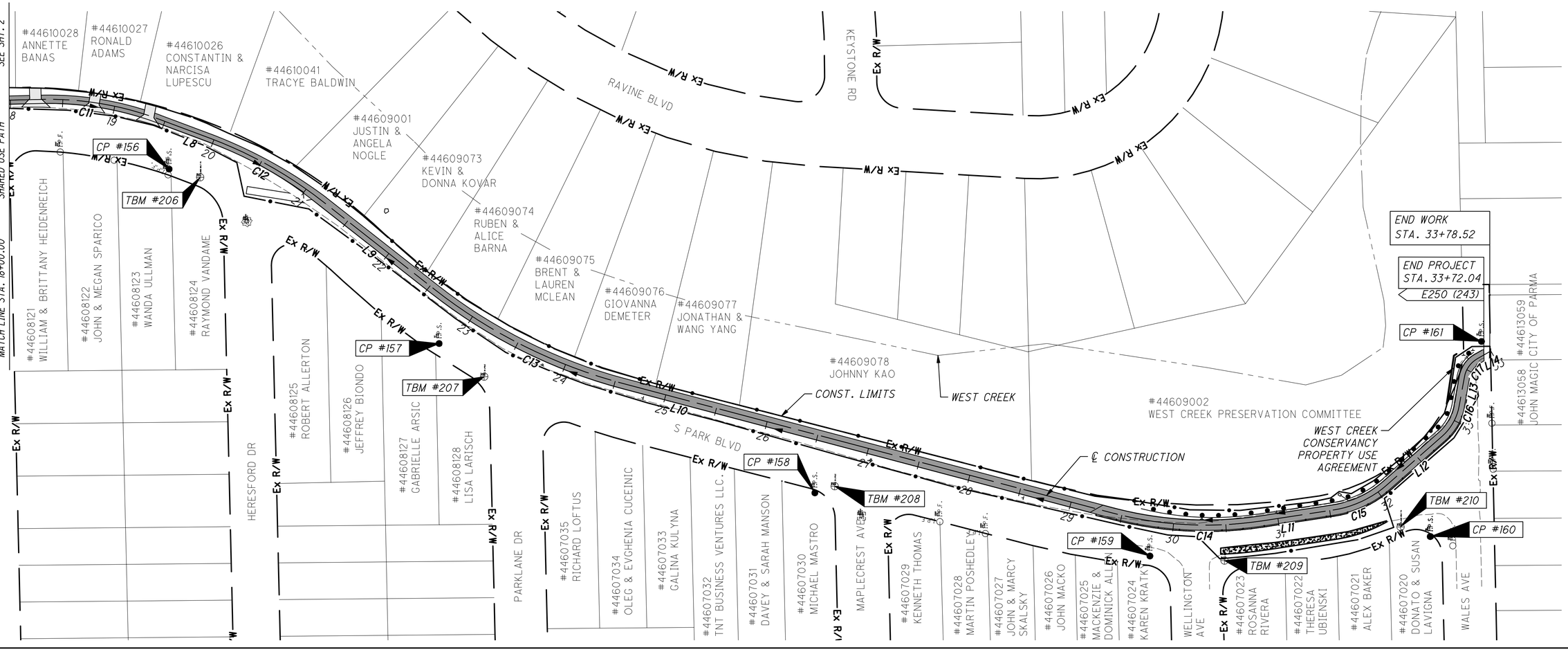
LEGEND:

- ASPHALT SHARED USE PATH
- CONCRETE DRIVE APRON
- PROPOSED ROADWAY

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

NOTES:

FOR PROJECT CONTROL AND BENCHMARKS SEE SHEET 4



SCHEMATIC PLAN
STA. 18+00 TO STA. 33+80

DESIGN AGENCY	OHM
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	3
TOTAL	47

PRIMARY PROJECT CONTROL INFORMATION

NO.	STATION	OFFSET	SIDE	LOCATION	ELEVATION	US SURVEY FEET		DESCRIPTION
						NORTHING	EASTING	
CP 100	0+34.31	63.79'	RT	SHARED USE PATH	860.16	634256.335	2187968.597	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 101	4+05.14	80.37'	RT	SHARED USE PATH	868.82	633868.556	2188006.701	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 152	6+43.43	54.13'	RT	SHARED USE PATH	867.15	633708.736	2188186.147	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 153	9+49.77	6.65'	RT	SHARED USE PATH	868.48	633450.286	2188201.830	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 154	13+81.17	44.23'	RT	SHARED USE PATH	870.44	633315.825	2187794.534	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 155	16+07.26	50.09'	RT	SHARED USE PATH	867.14	633083.044	2187675.871	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 156	19+69.79	41.2'	RT	SHARED USE PATH	862.73	632740.785	2187656.414	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 157	22+88.19	39.07'	RT	SHARED USE PATH	863.28	632483.194	2187490.152	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 158	26+61.37	54.02'	RT	SHARED USE PATH	873.63	632124.712	2187347.775	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 159	29+83.10	31.56'	RT	SHARED USE PATH	891.25	631805.049	2187287.601	5/8" REBAR CAPPED "TRAVERSE POINT"
CP 160	32+10.49	64.38'	RT	SHARED USE PATH	895.72	631537.316	2187306.209	5/8" REBAR CAPPED "TRAVERSE POINT"

TEMPORARY BENCHMARK CONTROL INFORMATION

NO.	STATION	OFFSET	SIDE	LOCATION	ELEVATION	US SURVEY FEET		DESCRIPTION
						NORTHING	EASTING	
TBM 200	0+12.65	68.47'	RT	SHARED USE PATH	855.84	634299.786	2187963.515	SOUTHEAST FLANGE BOLT OF FIRE HYDRANT
TBM 201	3+28.05	66.76'	RT	SHARED USE PATH	869.24	633963.158	2187981.270	BENCH TIE IN POWER POLE
TBM 202	6+88.73	45.86'	RT	SHARED USE PATH	868.02	633678.267	2188208.101	BENCH TIE IN POWER POLE
TBM 203	10+63.82	41.43'	RT	SHARED USE PATH	871.83	633412.229	2188100.456	NORTH FLANGE BOLT OF FIRE HYDRANT
TBM 204	14+57.36	45.32'	RT	SHARED USE PATH	870.51	633253.025	2187725.775	BENCH TIE IN LIGHT POLE
TBM 205	16+75.56	47.19'	RT	SHARED USE PATH	867.29	633014.825	2187680.351	NORTH FLANGE BOLT OF FIRE HYDRANT
TBM 206	20+00.52	38.14'	RT	SHARED USE PATH	864.48	632711.254	2187648.617	NORTH FLANGE BOLT OF FIRE HYDRANT
TBM 207	23+37.29	43.52'	RT	SHARED USE PATH	865.28	632440.241	2187458.565	BENCH TIE IN LIGHT POLE
TBM 208	26+78.03	43.08'	RT	SHARED USE PATH	875.00	632105.816	2187354.097	BENCH TIE IN LIGHT POLE
TBM 209	30+46.39	32.74'	RT	SHARED USE PATH	894.02	631733.925	2187283.221	BENCH TIE IN POWER POLE
TBM 210	31+99.25	39.63'	RT	SHARED USE PATH	895.71	631565.953	2187315.294	NORTHWEST FLANGE BOLT OF FIRE HYDRANT

DESIGN AGENCY

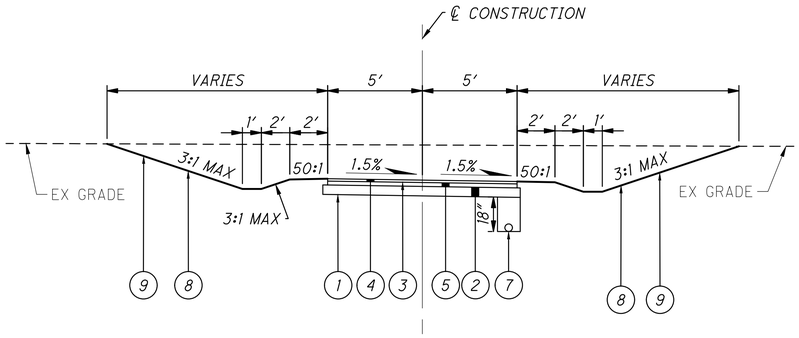
OHM

DESIGNER CB

REVIEWER JH

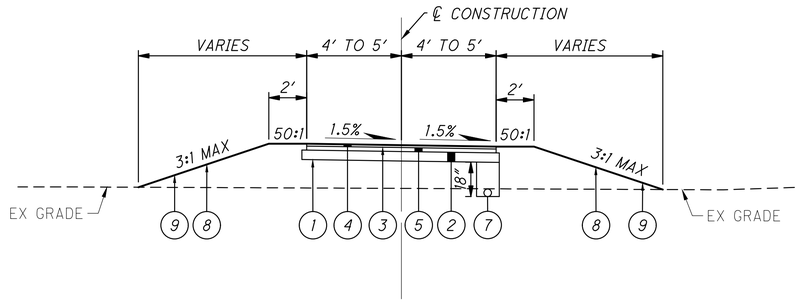
PROJECT ID 121603

SHEET 4 TOTAL 47



PROPOSED TYPICAL SECTION

STA. 0+02.25 TO STA. 2+25.00



PROPOSED TYPICAL SECTION

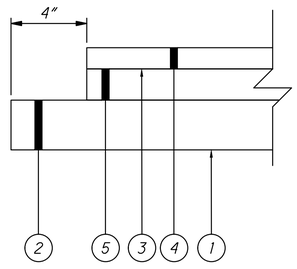
STA. 2+25.00 TO STA. 5+25.00
STA. 11+75.00 TO STA. 13+25.00
STA. 20+25.00 TO STA. 29+25.00

LEGEND

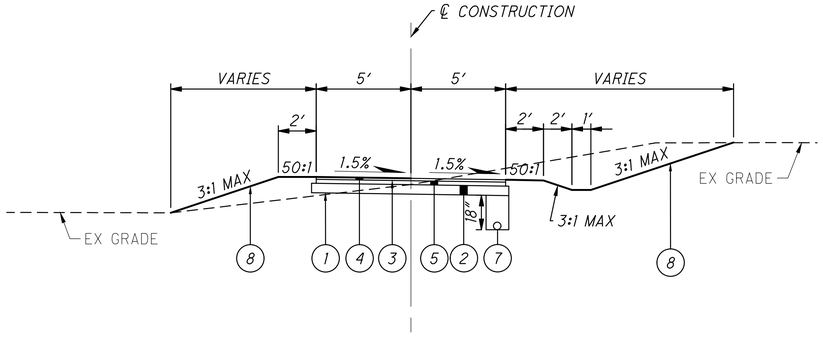
1. ITEM 204 - SUBGRADE COMPACTION
   ITEM 204 - PROOF ROLLING
2. ITEM 304 - 6″ AGGREGATE BASE, AS PER PLAN
3. ITEM 407 - TACK COAT (APPLIED AT A RATE OF 0.05 GAL/SY)
4. ITEM 441 - 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
5. ITEM 441 - 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
6. ITEM 605 - 6″ UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
7. ITEM 605 - 6″ BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
8. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
9. ITEM 670 - SLOPE EROSION PROTECTION

(A) EXISTING ASPHALT (±8″)

(B) EXISTING AGGREGATE BASE (±4″)

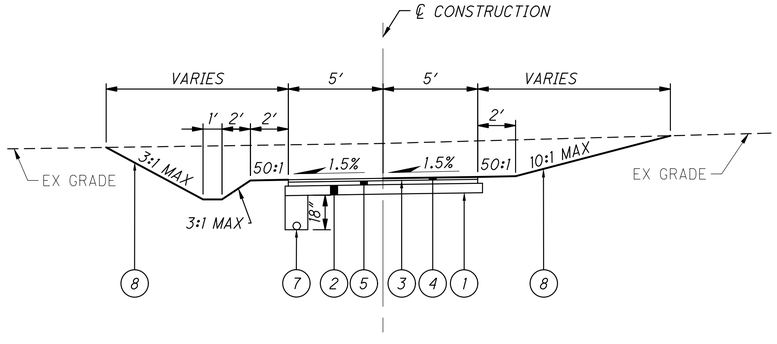


STEP OUT DETAIL



PROPOSED TYPICAL SECTION

STA. 5+25.00 TO STA. 6+75.00



PROPOSED TYPICAL SECTION

STA. 6+75.00 TO STA. 11+75.00

TYPICAL SECTIONS

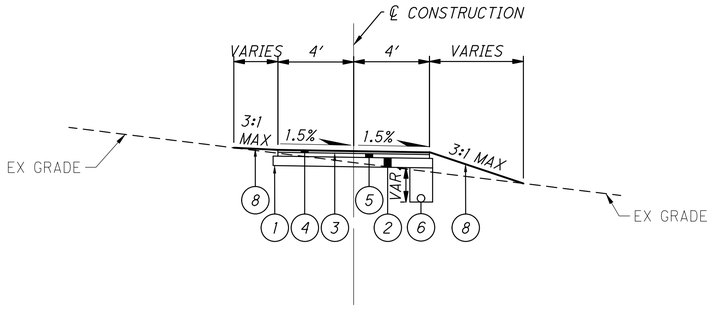
CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GY.dwg

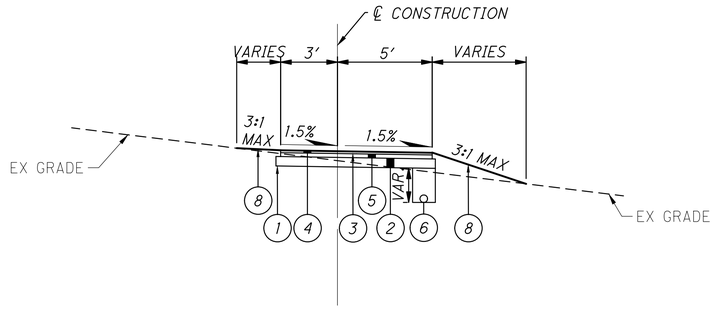
DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	5
TOTAL	47



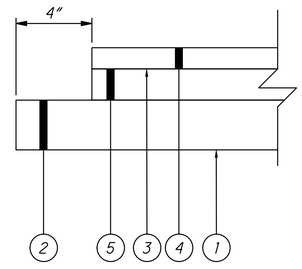
PROPOSED TYPICAL SECTION
STA. 13+25.00 TO STA. 14+70.00
STA. 16+15.00 TO STA. 16+45.00
STA. 17+09.00 TO STA. 20+25.00



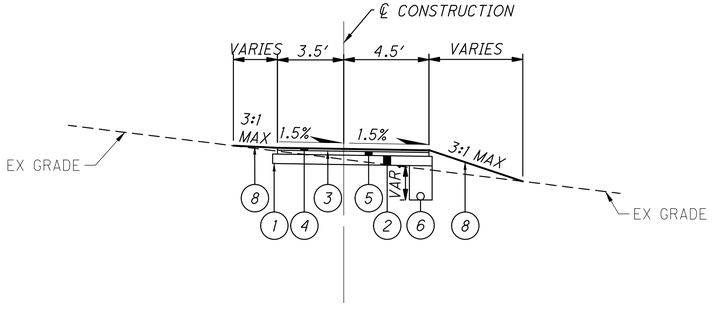
PROPOSED TYPICAL SECTION
STA. 14+70.00 TO STA. 16+15.00

LEGEND

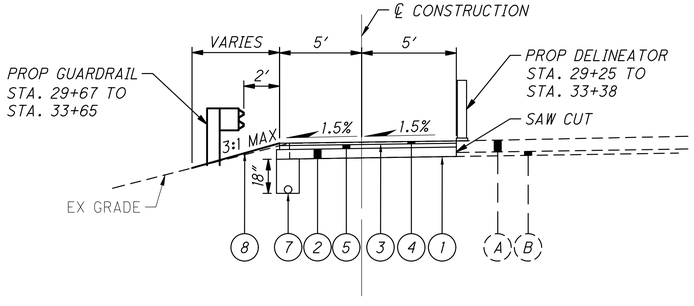
1. ITEM 204 - SUBGRADE COMPACTION
   ITEM 204 - PROOF ROLLING
2. ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN
3. ITEM 407 - TACK COAT (APPLIED AT A RATE OF 0.05 GAL/SY)
4. ITEM 441 - 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
5. ITEM 441 - 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
6. ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
7. ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
8. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
9. ITEM 670 - SLOPE EROSION PROTECTION
- (A) EXISTING ASPHALT (±8")
- (B) EXISTING AGGREGATE BASE (±4")



STEP OUT DETAIL



PROPOSED TYPICAL SECTION
STA. 16+45.00 TO STA. 17+09.00



PROPOSED TYPICAL SECTION
STA. 29+25.00 TO STA. 33+72.04

TYPICAL SECTIONS

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GY.dwg

DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	6
TOTAL	47

GENERAL

UTILITY CONTACT INFORMATION

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC:
CEI FIRST ENERGY
6896 MILLER ROAD
BRECKSVILLE, OHIO 44141
PHONE: (440)-546-8706
ATTN: JOHN ZASSICK

CITY ENGINEER:
CITY OF PARMA
6611 RIDGE ROAD
CLEVELAND, OHIO 44129
PHONE: (440)-885-8000
ATTN: HASMUKH PATEL

GAS:
COLUMBIA GAS OF OHIO
7080 FRY RD
MIDDLEBURG HEIGHTS, OHIO 44130
PHONE: (724)-355-5379
ATTN: JAMIE HOLODNAK

FIRE DEPARTMENT:
CITY OF PARMA
6611 RIDGE ROAD
CLEVELAND, OHIO 44129
PHONE: (440)-885-8000

PUBLIC TRANSPORTATION:
GREATER CLEVELAND RAPID TRANSIT AUTHORITY
1240 W. 6TH. STREET
CLEVELAND, OHIO 44113
PHONE: (216)-556-5084
ATTN: MIKE SCHIPPER

POLICE DEPARTMENT:
CITY OF PARMA
5555 POWERS BOULEVARD
PARMA, OHIO 44129
PHONE: (440)-885-1234

SANITARY SEWER:
CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS
CUYAHOGA COUNTY
ADMINISTRATIVE HEADQUARTERS
2079 EAST 9TH STREET, 5TH FLOOR
CLEVELAND, OHIO 44115
PHONE: (216)-443-8205
ATTN: LAURA A. WEBER, P.E.

SERVICE DEPARTMENT:
CITY OF PARMA
6611 RIDGE ROAD
CLEVELAND, OHIO 44129
PHONE: (440)-885-8000

STORM SEWER:
NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD)
3900 EUCLID AVENUE
CLEVELAND, OHIO 44115
PHONE: (216)-881-6600 EXT. 6802

TRAFFIC SAFETY:
CITY OF PARMA
6611 RIDGE ROAD
CLEVELAND, OHIO 44129
PHONE: (440)-885-8000

TELECOM:
AT&T
13630 LORAIN AVE. - 2ND FLOOR
CLEVELAND, OHIO 44111
PHONE: (216)-476-6142
ATTN: JAMES JANIS

BREEZELINE
3 BATTERYMARCH PARK,
SUITE 200
QUINCY, MA 02169
PHONE: (888)-536-9600

CHARTER COMMUNICATIONS
7 SEVERANCE CIRCLE
CLEVELAND HEIGHTS, OHIO 44118
PHONE: (216)-633-4001, EXT. 111
ATTN: PAT SANTOIEMMO

EVERSTREAM SOLUTIONS
1228 EUCLID AVENUE, SUITE 250
CLEVELAND, OH 44115
PHONE: (216)-372-6502
ATTN: TOM TRUSNIK

WATER:
CITY OF CLEVELAND DIVISION OF WATER
1201 LAKESIDE AVENUE
CLEVELAND, OHIO 44114
PHONE: (216)-644-2444, EXT. 75590
ATTN: FRED ROBERTS

UTILITIES

UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CURRENT CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT, AND DOES NOT GUARANTEE THAT PIPE MATERIAL, AND/OR PIPE SIZE, THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC, ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED, OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED UPON THE BEST AVAILABLE INFORMATION PROVIDED TO THE ENGINEER DURING THE DESIGN PROCESS PER ORC 153.64. THE ENGINEER CANNOT GUARANTEE EXACT LOCATIONS OF UNDERGROUND UTILITIES OR ANY UTILITIES ABOVE GROUND OR UNDERGROUND THAT MAY HAVE BEEN RELOCATED AFTER THE DESIGN PROCESS. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER SERVICE LINES AND LATERALS DURING CONSTRUCTION AT ALL DWELLINGS/BUSINESSES, WHETHER SHOWN ON THESE PLANS OR NOT. LOCATION OF UNDERGROUND UTILITY FACILITIES SERVING SINGLE-FAMILY OR TWO-, THREE-, OR FOUR-UNIT DWELLINGS ARE NOT REQUIRED TO BE MADE AVAILABLE TO THE ENGINEER DURING THE DESIGN PROCESS PER ORC 153.64 AND THUS MAY OR MAY NOT BE PROVIDED ON THE PLANS. IF PROVIDED ON THE PLANS, THE ENGINEER CANNOT GUARANTEE EXACT LOCATIONS. NO ADDITIONAL COSTS OR CHANGE ORDERS WILL BE APPROVED FOR UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT.

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH ORC 153.64, SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

- THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

  OUPS 1-800-362-2764
  (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
  OGPUPS 1-800-925-0988

- 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, IN ACCORDANCE WITH ORC 153.64.

- THE CONTRACTOR SHALL INSTALL FACILITIES AT THE REQUIRED HORIZONTAL AND VERTICAL CLEARANCES. THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION OF PROPOSED WORK TO VERIFY THE REQUIRED VERTICAL AND HORIZONTAL CLEARANCE IS AVAILABLE, PRIOR TO CONSTRUCTION OF THE PROPOSED FACILITY. THE ENGINEER CANNOT GUARANTEE EXACT DEPTHS OF EXISTING UTILITIES. IN THE CASE OF CONFLICT BETWEEN UTILITIES, THE ENGINEER SHALL DETERMINE THE PROPOSED COURSE OF ACTION TO ELIMINATE THE CONFLICT.

UTILITIES (CONT.)

- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. ALL EXISTING UTILITIES, SERVICE LINES, LATERALS, ETC., DAMAGED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER.

- AT ALL UTILITY CROSSINGS, THE TRENCH BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL BETWEEN THE PIPES.

- ALL EXISTING MANHOLES, CATCH BASINS, UTILITY BOXES, VALVES BOXES, ETC. SHALL BE ADJUSTED TO MATCH THE FINISHED GRADE OF THE PROJECT.

THE OWNER/ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR NEGLIGENCE, NON-PARTICIPATION, ERRORS, OMISSIONS, OR INACCURACIES OF WORK CONDUCTED BY UTILITY COMPANIES, THEIR CONTRACTORS, LOCATION SERVICES, OR OTHERS.

ALL COSTS, INCLUDING LABOR, EQUIPMENT, MATERIALS, COORDINATION, ETC., FOR ALL ASPECTS OF WORK DESCRIBED IN THIS NOTE AND ASSOCIATED REQUIREMENTS, SHALL BE INCLUDED IN THE VARIOUS PRICES BID FOR THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO THE CONTRACTOR FOR ANY CONDITION DESCRIBED ABOVE.

NON-CEI PERSONNEL ARE NOT PERMITTED TO HOLD OR BRACE POLES. FOR THIS SERVICE, CREATE AN ORDER BY CALLING 800-589-3101. THE CEI LINE SHOP WILL CONTACT THE CONTRACTOR TO SCHEDULE THE WORK. DE-ENGERGIZING MAY OR MAY NOT BE POSSIBLE. PROPOSED CEI CONFLICT RESOLUTION DETAILS AND ESTIMATES ARE PRELIMINARY AND ARE SUBJECT TO CHANGE.

SURVEY PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 4 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: 5/8"x30" IRON REBAR WITH RED CAP

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: C1/NAVD88
GEOID: GEIOD 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: C1/LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE NORTH ZONE

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE ANY TOOLS OR EQUIPMENT USED IN CONSTRUCTION, DRILLING, OR DEMOLITION WORK BETWEEN THE HOURS OF 9:00 P.M. AND 7:30 A.M. THE FOLLOWING DAY ON WEEKDAYS (9:00 A.M. THE FOLLOWING DAY ON WEEKDAYS IF PROPERTY IS ADJACENT TO RESIDENTIAL PROPERTY) OR 8:00 P.M. AND 10:00 A.M. ON SUNDAYS EXCEPT BY A SPECIAL VARIANCE. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

SURVEY MONUMENTS

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED FOR MONUMENT VERIFICATION REPORTS DURING CONSTRUCTION:

ITEM 623 - PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT — LS

ITEM 623 - POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT — LS

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THESE ITEMS.

ITEM 619 - FIELD OFFICE, TYPE B, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 619, THE CONTRACTOR SHALL FURNISH AND SET UP A WI-FI ROUTER MEETING THE REQUIREMENTS OF IEEE 802.11AC FOR THE EXCLUSIVE USE OF THE DEPARTMENT.

ALL OTHER FIELD OFFICE ITEMS SUPPLIED SHALL MEET THE REQUIREMENTS OF A TYPE B FIELD OFFICE.

ITEM 619 - FIELD OFFICE, TYPE B, AS PER PLAN — 9 MONTHS

DESIGN AGENCY
OHM
DESIGNER CB
REVIEWER JH
PROJECT ID 121603
SHEET 7 TOTAL 47

ROADWAY

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	63	2	65
30"	2	0	2
48"	0	0	0
60"	0	0	0

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICES AS SHOWN IN AASHTO M 180-12. EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

EROSION CONTROL

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN

ALL REQUIREMENTS OF ITEM 659 SHALL APPLY WITH THE FOLLOWING MODIFICATIONS:

1. PREPARE THE SITE AND REMOVE ROCKS IN ACCORDANCE WITH 659.10
2. PROVIDE SEED OF GRASS SPECIES AS LISTED BELOW, WITH NOT LESS THAN 85% GERMINATION, NOT LESS THAN 95% PURE SEED, AND NOT MORE THAN 0.5% WEED SEED. PROPORTIONED MIX BY WEIGHT AS FOLLOWS:
   70-80% TURF TYPE TALL FESCUE (MINIMUM OF 4 CULTIVARS).
   20-30% KENTUCKY BLUEGRASS (POA PRATENSIS).
   SEED SOWING RATE: 5-8 LB/1,000 SF.
3. SEED AND MULCH ENTIRE DISTURBED AREA WITH SEED MIXTURE FOR (LAWN AREAS) PER TABLE 659.09

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 659 - SEEDING AND MULCHING, AS PER PLAN. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN 5,209 SY

SEEDING AND MULCHING

THESE ITEMS HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO RESTORE ALL LAWN AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITIONS, PRIOR TO CONSTRUCTION. THE QUANTITIES PROVIDED ARE BASED ON THE CONSTRUCTION LIMITS. ANY DISTURBANCE OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE REPAIRED AND THE COST BORNE BY THE CONTRACTOR.

ITEM 659 - SOIL ANALYSIS TEST	1	EACH
ITEM 659 - COMMERCIAL FERTILIZER	0.70	TON
ITEM 659 - LIME	1.08	ACRE
ITEM 659 - WATER	28	MGAL
ITEM 659 - MOWING	118	MSF

COSTS FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THESE ITEMS.

ENVIRONMENTAL COMMITMENTS

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, NORTHERN LONG-EARED BAT, AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRI-COLORED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

DESIGN AGENCY
OHM

DESIGNER CB
REVIEWER JH
PROJECT ID 121603
SHEET 8 TOTAL 47

DRAINAGE

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIPS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE ITEM 659, SEEDING AND MULCHING, AS PER PLAN WITH A 4 - INCH LIFT OF ITEM 653, TOPSOIL FURNISHED AND PLACED AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS AS SPECIFIED IN THE PLANS.

ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN

THIS ITEM'S WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 605 IN THE CMS EXCEPT THAT THE DEPTH OF THE UNDERDRAIN WILL VARY TO AVOID ANY RESIDENTIAL UTILITY SERVICE CONNECTIONS. THE CONTRACTOR SHALL IDENTIFY ALL SERVICE CONNECTIONS IMPACTED IN THE FIELD AND COORDINATE UNDERDRAIN DEPTH PLACEMENT WITH THE ENGINEER. UNDERDRAIN OUTSIDE OF IMPACTED AREA TO BE PLACED AT 18" DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

COSTS FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

PAVEMENT

ITEM 304 - AGGREGATE BASE, AS PER PLAN

THIS ITEM'S WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 304 IN THE CMS EXCEPT RECYCLED CONCRETE AND GRANULATED SLAG (GS) SHALL NOT BE PERMITTED.

A MODIFIED ITEM 304 SHALL BE UTILIZED TO IMPROVE THE PERMEABILITY OF THE AGGREGATE BASE WITH A REDUCED PERCENT OF FINES. THE MATERIAL SHALL BE APPROVED IN ADVANCE BY THE GEOTECHNICAL ENGINEER BEFORE DELIVERED TO THE PROJECT SITE.

COSTS FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES:

ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449)	5 CY
ITEM 407 - TACK COAT	2 GAL
ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	1 CY
ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	2 CY

THE ABOVE QUANTITIES ARE BASED ON A 301 THICKNESS OF 5 INCHES, A 407 TACK COAT APPLICATION RATE OF 0.05 GAL/SY, A 441 SURFACE COURSE THICKNESS OF 1.25 INCHES, A 441 INTERMEDIATE COURSE THICKNESS OF 1.75 INCHES, AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

PAVEMENT

ROADWAY PAVEMENT WIDENING

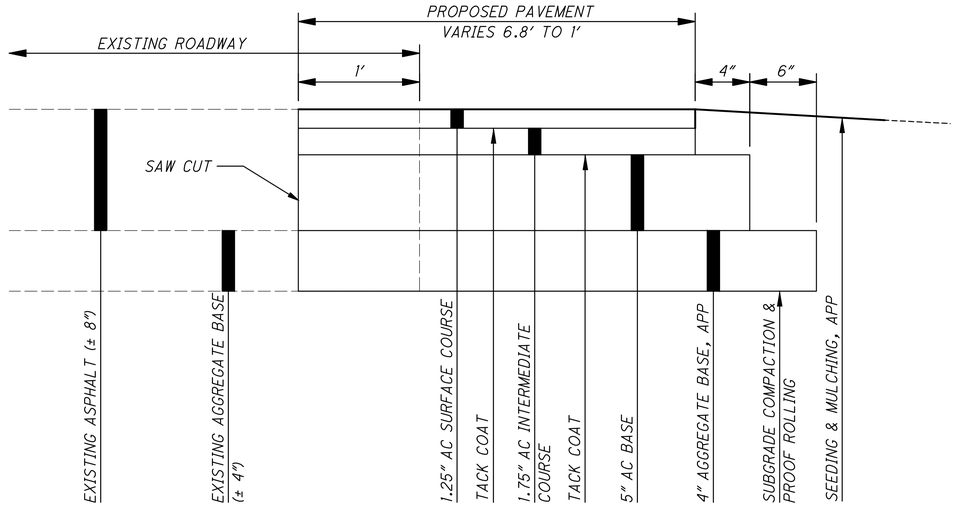
THE FOLLOWING PAVEMENT QUANTITIES SHALL BE UTILIZED FOR THE ROADWAY WIDENING OF SOUTH PARK BLVD. FROM STA. 30+44 TO STA. 31+92:

ITEM 202 - PAVEMENT REMOVED	37 SY
ITEM 203 - EXCAVATION	24 CY
ITEM 203 - EMBANKMENT	4 CY
ITEM 204 - SUBGRADE COMPACTION	112 SY
ITEM 204 - PROOF ROLLING	1 HOUR
ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449)	14 CY
ITEM 304 - AGGREGATE BASE, AS PER PLAN	12 CY
ITEM 407 - TACK COAT	10 GAL
ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	3 CY
ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	5 CY
ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	148 FT

THE ABOVE QUANTITIES ARE BASED ON A 441 SURFACE COURSE THICKNESS OF 1.25 INCHES, A 441 INTERMEDIATE COURSE THICKNESS OF 1.75 INCHES, TWO 407 TACK COAT APPLICATIONS AT A RATE OF 0.05 GAL/SY, A 301 THICKNESS OF 5 INCHES, AND A 304 THICKNESS OF 4 INCHES. SAW CUT A MINIMUM OF 1 FT FROM THE EDGE OF THE EXISTING PAVEMENT AND LIMIT THE SAW CUTS TO TWO ADJACENT DRIVEWAYS AS REQUIRED TO WIDEN THE ROADWAY.

A QUANTITY OF UNDERDRAIN HAS BEEN PROVIDED TO REPLACE ANY EXISTING UNDERDRAIN ENCOUNTERED DURING EXCAVATION OF THE ROADWAY.

COSTS FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE ABOVE UNIT PRICES.



ROADWAY PAVEMENT WIDENING DETAIL
STA. 30+44 TO STA. 31+92
NOT TO SCALE

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\80472300l0_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\2300l0_GN.dwg

GENERAL NOTES

DESIGN AGENCY
OHM

DESIGNER CB
REVIEWER JH
PROJECT ID 121603
SHEET 9 TOTAL 47

ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF TWO-WAY, ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED)
MEMORIAL DAY
FOURTH OF JULY (OBSERVED)
LABOR DAY
GENERAL/REGULAR ELECTION DAY (NOV)
THANKSGIVING
CHRISTMAS (OBSERVED)
(OTHER HOLIDAY OR SPECIAL EVENT)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 10 MGAL

ACCESS TO PROPERTIES

ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES EXCEPT WHEN A DRIVEWAY MUST BE CLOSED FOR CONSTRUCTION. RESIDENTS AND PROPERTY OWNERS SHALL BE PROVIDED WRITTEN NOTIFICATION BY THE CONTRACTOR A MINIMUM OF 7 DAYS PRIOR TO THE CLOSURE. THE NOTICE SHALL LIST THE TIME THE CLOSURE WILL BE IN EFFECT AND SHALL LIST 24-HOUR EMERGENCY PHONE NUMBERS OF THE CONTRACTOR RESPONSIBLE FOR THE CLOSURE. THE TIMES SHALL BE COORDINATED WITH EACH RESIDENT AND PROPERTY OWNER. INDIVIDUAL DRIVE CLOSURES SHALL BE KEPT TO THE MINIMUM TIME NEEDED FOR CONSTRUCTION ACTIVITIES.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED UNDER FLAGGER CONTROL PER ODOT SCD MT-97.12 FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES AND CONSTRUCTION OF THE SHARED USE PATH AND ROADWAY WIDENING.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY OF PARMA ENGINEER AND THE ODOT PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE ODOT PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE ODOT PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE CITY OF PARMA AND THE ODOT PROJECT ENGINEER.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS AND PIO
ROAD CLOSURES	≥2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS AND <2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	≤12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	≥2 WEEKS	4 CALENDAR DAYS PRIOR TO CLOSURE
	<2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION AND TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ALTERNATE MAINTENANCE OF TRAFFIC PLANS

IF THE CONTRACTOR SO ELECTS, THEY MAY SUBMIT ALTERNATE METHODS FOR MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE CITY OF PARMA ENGINEER AND THE ODOT DISTRICT CONSTRUCTION ENGINEER.

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GN.dwg

DESIGN AGENCY
OHM
DESIGNER
CB
REVIEWER
JH
PROJECT ID
121603
SHEET 10 TOTAL 47

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
OFFICE CALCS	7	8	9	13	14	15	16	18					01/MPO/28		EXT	TOTAL			SHEET NO.
																		ROADWAY	
		LS											LS	201	11000	LS		CLEARING AND GRUBBING	
			37			456	72						565	202	23000	565	SY	PAVEMENT REMOVED	
				2,185									2,185	202	30000	2,185	SF	WALK REMOVED	
				27									27	202	32000	27	FT	CURB REMOVED	
				502									502	202	38000	502	FT	GUARDRAIL REMOVED	
				183									183	202	75000	183	FT	FENCE REMOVED	
			24	1,499									1,523	203	10000	1,523	CY	EXCAVATION	
			4	229									233	203	20000	233	CY	EMBANKMENT	
			112			3,706	165						3,983	204	10000	3,983	SY	SUBGRADE COMPACTION	
			1			2	1						4	204	45000	4	HOUR	PROOF ROLLING	
				387.5									387.5	606	15050	387.5	FT	GUARDRAIL, TYPE MGS	
				3									3	606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				122									122	608	10000	122	SF	4" CONCRETE WALK	
				76									76	608	52000	76	SF	CURB RAMP	
	LS												LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
	LS												LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
																		EROSION CONTROL	
					2								2	601	34200	2	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	
111													111	653	10000	111	CY	TOPSOIL FURNISHED AND PLACED	
		1											1	659	00100	1	EACH	SOIL ANALYSIS TEST	
		5,209											5,209	659	10001	5,209	SY	SEEDING AND MULCHING, AS PER PLAN	8
		0.7											0.7	659	20000	0.7	TON	COMMERCIAL FERTILIZER	
		1.08											1.08	659	31000	1.08	ACRE	LIME	
		28											28	659	35000	28	MGAL	WATER	
		118											118	659	40000	118	MSF	MOWING	
997													997	670	00500	997	SY	SLOPE EROSION PROTECTION	
								LS					LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
								LS					LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
								LS					LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
38,800													38,800	832	30000	38,800	EACH	EROSION CONTROL	
																		DRAINAGE	
					0.4								0.4	602	20000	0.4	CY	CONCRETE MASONRY	
			148		798								946	605	13411	946	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	9
					2,509								2,509	605	14020	2,509	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
					60								60	611	00510	60	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
					178								178	611	04400	178	FT	12" CONDUIT, TYPE B	
					63								63	611	04600	63	FT	12" CONDUIT, TYPE C	
					6								6	611	98470	6	EACH	CATCH BASIN, NO. 2-2B	
					1								1	611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
					1								1	611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
			19										19	301	56000	19	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
			12			618							630	304	20001	630	CY	AGGREGATE BASE, AS PER PLAN	9
			12			174							186	407	10000	186	GAL	TACK COAT	
			4			145							149	441	70000	149	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
			7			242							249	441	70300	249	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
							165						165	452	10050	165	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
				7									7	609	26000	7	FT	CURB, TYPE 6	

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\121603_GG001.dwg

GENERAL SUMMARY

DESIGN AGENCY

OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 11 TOTAL 47

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	10	13	14	17	43	45	47						01/MPO/28						
																		SANITARY SEWER	
			1										1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
																		TRAFFIC CONTROL	
				21									21	620	00500	21	EACH	DELINEATOR, POST GROUND MOUNTED	
		10											10	626	00110	10	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL	
				222.4									222.4	630	02100	222.4	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
				28									28	630	03100	28	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				14.5									14.5	630	04100	14.5	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
				18									18	630	08600	18	EACH	SIGN POST REFLECTOR	
				94.5									94.5	630	80100	94.5	SF	SIGN, FLAT SHEET	
				18									18	630	84900	18	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
				22									22	630	86002	22	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				0.08									0.08	642	00104	0.08	MILE	EDGE LINE, 6", TYPE 1	
																		LANDSCAPING	
							10						10	661	00501	10	CY	MULCH, AS PER PLAN	47
					3	2							5	661	40060	5	EACH	DECIDUOUS TREE, 1-1/2" CALIPER ('AUTUMN FANTASY' MAPLE)	
					3	5							8	661	40060	8	EACH	DECIDUOUS TREE, 1-1/2" CALIPER ('IVORY SILK' TREE LILAC)	
					4	1							5	661	40060	5	EACH	DECIDUOUS TREE, 1-1/2" CALIPER (RED OAK)	
							5,400						5,400	662	31001	5,400	GAL	LANDSCAPE WATERING, AS PER PLAN	47
																		MAINTENANCE OF TRAFFIC	
	10												10	616	10000	10	MGAL	WATER	
																		INCIDENTALS	
	LS												LS	614	11000	LS		MAINTAINING TRAFFIC	
9													9	619	16011	9	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	7
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\121603_GG001.dwg

GENERAL SUMMARY

DESIGN AGENCY

OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 12 TOTAL 47

REF NO.	SHEET NO.	STATION TO STATION			202 WALK REMOVED SF	202 CURB REMOVED FT	202 GUARDRAIL REMOVED FT	202 FENCE REMOVED FT		606 GUARDRAIL, TYPE MGS FT	606 ANCHOR ASSEMBLY, MGS TYPE T EACH		608 4" CONCRETE WALK SF	608 CURB RAMP SF		609 CURB, TYPE 6 FT		626 BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL EACH
			TO															
C-1	20	-0+83.03		-0+85.40												6		
C-2	20	-0+90.86		-0+91.94												1		
CR-1	20	-0+85.40		-0+94.32										38				
CR-2	20	-0+91.94		0+00.77										38				
FR-1	20	0+36.14		0+51.09				18										
G-1	20	-0+97.00		0+22.31						12.5	1							1
GR-1	20	-0+97.00		0+33.42			39											
SW-1	20	-0+83.51		0+02.26									122					
SWR-1	20	-0+83.51		0+02.26	151	27												
FR-2	21	5+72.64		6+38.35				67										
GR-2	21	6+62.68		7+01.09			37											
FR-3	23	14+47.62		15+47.25				98										
SWR-2	23	15+63.94		19+79.74	2034													
GR-3	24	23+42.18		23+67.69			26											
G-2	26	29+65.00		33+65.00						375	2							9
GR-4	26	29+64.98		33+64.30			400											
TOTALS CARRIED TO GENERAL SUMMARY					2185	27	502	183		387.5	3		122	76		7		10

REF NO.	SHEET NO.	STATION TO STATION			203 EXCAVATION CY	203 EMBANKMENT CY
			TO			
	27	0+02.25		1+50.00	502	
	28	1+50.00		2+00.00	116	
	28	2+00.00		4+00.00	42	108
	29	4+00.00		6+00.00	47	21
	29	6+00.00		8+00.00	85	10
	30	8+00.00		10+00.00	125	
	30	10+00.00		12+00.00	115	2
	31	12+00.00		14+00.00	32	11
	31	14+00.00		16+00.00	61	
	32	16+00.00		18+00.00	49	
	32	18+00.00		18+79.80	18	2
	33	18+79.80		20+00.00	21	6
	33	20+00.00		22+00.00	70	7
	34	22+00.00		24+00.00	59	5
	34	24+00.00		26+00.00	56	13
	35	26+00.00		28+00.00	49	23
	35	28+00.00		30+00.00	47	13
	36	30+00.00		32+00.00	2	6
	36	32+00.00		33+72.04	3	2
TOTALS CARRIED TO GENERAL SUMMARY					1499	229

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\121603_GS001.dwg

ROADWAY & EARTHWORK SUBSUMMARY

DESIGN AGENCY

OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 13 TOTAL 47

REF NO.	SHEET NO.	STATION TO STATION			601 ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER CY		602 CONCRETE MASONRY CY		605 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN FT	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT		611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE C FT	611 CATCH BASIN, NO. 2-2B EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 MANHOLE ADJUSTED TO GRADE EACH	611 PRECAST REINFORCED CONCRETE OUTLET EACH							
			TO																						
HW-1	20	0+53.00			1		0.21																		
D-2	20	0+07.00													1										
D-3	20	0+30.00													1										
ST-1	20	0+53.00		0+07.00										55											
ST-2	20	0+07.00		0+30.00									29												
UD-1	20	0+30.00		3+36.00						297		10													
UD-2	20-21	3+36.00		6+75.00						329		10													
D-4	21	6+75.00													1										
D-6	21	7+50.00													1										
HW-2	21	7+44.18			1		0.21																		
ST-3	21	6+75.00		7+50.00									78												
ST-4	21	7+44.18		7+50.00										8											
UD-3	21	6+75.00		7+50.00						68		10													
UD-4	21-22	7+50.00		13+00.00						551		10													
UD-5	22-24	13+00.00		21+05.00					798			10													
DJ-1	23	17+74.52																1							
D-7	24	21+05.00													1										
D-8	24	21+05.00													1										
ST-5	24	20+50.46		21+05.00									54												
ST-6	24	21+05.00		21+05.00									17												
UD-6	24-26	21+05.00		31+65.00						1053		10													
DJ-2	26	30+51.88															1								
UD-7	26	31+65.00		33+73.00						211									1						
		NOT USED: D-1, D-5																							
TOTALS CARRIED TO GENERAL SUMMARY					2		0.4		798	2509		60	178	63	6	1	1	1							

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Drainage\Sheets\121603_DS001.dwg

DRAINAGE SUBSUMMARY

DESIGN AGENCY

OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 14 TOTAL 47

STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202 PAVEMENT REMOVED	204 SUBGRADE COMPACTION	204 PROOF ROLLING		304 AGGREGATE BASE, AS PER PLAN		407 TACK COAT		441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
					FT	FT	SQ YD	SQ YD	SY	SY	HOUR		CY		GAL		CY	CY
	TO																	
00+02.25		11+18.55		LT/RT	1116.30	10.00	1240.33			1323.02	0.44		220.50		62.02		51.68	86.13
11+18.55		12+00.00		LT/RT	81.45	9.00	81.45			87.48	0.03		14.58		4.07		3.39	5.66
12+00.00		16+10.85		LT/RT	410.85	8.00	365.20			395.63	0.13		65.94		18.26		15.22	25.36
16+20.85		16+37.14		LT/RT	16.29	8.00	14.48			15.69	0.01		2.62		0.72		0.60	1.01
16+47.15		16+96.78		LT/RT	49.63	8.00	44.12			47.79	0.02		7.97		2.21		1.84	3.06
17+04.78		17+49.49		LT/RT	44.71	8.00	39.74			43.05	0.01		7.18		1.99		1.66	2.76
17+63.78		18+17.46		LT/RT	53.68	8.00	47.72			51.69	0.02		8.62		2.39		1.99	3.31
18+29.88		18+75.06		LT/RT	45.18	8.00	40.16			43.51	0.01		7.25		2.01		1.67	2.79
18+85.06		19+28.77		LT/RT	43.71	8.00	38.85			42.09	0.01		7.02		1.94		1.62	2.70
19+38.86		19+96.96		LT/RT	58.10	8.00	51.64			55.95	0.02		9.33		2.58		2.15	3.59
19+96.96		21+20.11		LT/RT	123.15	9.00	123.15			132.27	0.04		22.05		6.16		5.13	8.55
21+20.11		29+25.00		LT/RT	804.89	10.00	894.32			953.94	0.32		158.99		44.72		37.26	62.11
29+25.00		33+72.04		LT/RT	447.04	10.00	496.71		455.85	513.27	0.17		85.55		24.84		20.70	34.49
								SUBTOTALS	455.85	3705.38	1.23		617.60		173.91		144.91	241.52
								TOTALS CARRIED TO GENERAL SUMMARY	456	3706	2		618		174		145	242

PAVEMENT SUBSUMMARY

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\121603_GS001.dwg

DESIGN AGENCY

OHM

DESIGNER
CB

REVIEWER
JH

PROJECT ID
121603

SHEET 15 | TOTAL 47

SHEET NO.	REFERENCE NO.	STATION	USAGE	APRON MATERIAL	APRON AREA	APRON LENGTH	APRON WIDTH	RADIUS OR FLARE	202 PAVEMENT REMOVED		204 SUBGRADE COMPACTION	204 PROOF ROLLING		452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS											
					SF	FT	FT	FT	SY		SY	HOUR		SY											
37	DV-1	16+15.90	RES.	CONC.	177.42	15.1	10.0	6			20	0.01		20											
37	DV-2	16+42.50	RES.	CONC.	194.49	15.9	10.0	6			22	0.01		22											
37	DV-3	17+00.00	RES.	CONC.	175.31	16.6	8.0	6			19	0.01		19											
37	DV-4	17+55.50	RES.	CONC.	228.35	17.4	10.0	7	18		25	0.01		25											
37	DV-5	18+24.50	RES.	CONC.	265.96	18.2	11.0	8	20		30	0.02		30											
37	DV-6	18+79.80	RES.	CONC.	221.43	17.2	10.0	7	16		25	0.01		25											
37	DV-7	19+33.50	RES.	CONC.	217.18	17.4	10.0	6	18		24	0.01		24											
								SUBTOTAL	72		165	0.08		165											
								TOTALS CARRIED TO GENERAL SUMMARY	72		165	1		165											

DRIVEWAY SUBSUMMARY

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\121603_GD001.dwg

DESIGN AGENCY

OHM

DESIGNER
CB

REVIEWER
JH

PROJECT ID
121603

SHEET 16 | TOTAL 47

REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT	630 GROUND MOUNTED SUPPORT, NO. 3 POST FT	630 GROUND MOUNTED SUPPORT, NO. 4 POST FT	630 SIGN POST REFLECTOR EACH	630 SIGN, FLAT SHEET SF	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL EACH	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH
R-1	39	SHARED USE PATH	0+06.00	RT								2	1
S-1	39	SHARED USE PATH	0+03.00	LT	SPECIAL	12 X 18	9				1.5		
S-2	39	SHARED USE PATH	0+06.00	RT	S1-1-36	36 X 36			14.5		9.5		
					W16-7PL-24	24 X 12					7.5		
R-2	40	SHARED USE PATH	8+82.00	RT								1	2
R-3	40	SHARED USE PATH	13+09.00	RT								1	1
S-3	40	SHARED USE PATH	0+09.00	RT	W1-7-48	48 X 24	12.5 / 12.5			2	8		
S-4	40	SHARED USE PATH	13+30.00	RT	W3-1-30	30 X 30		14		1	6.25		
R-4	41	SHARED USE PATH	14+61.00	RT								1	2
R-5	41	SHARED USE PATH	20+44.00	RT								1	2
R-6	41	SHARED USE PATH	23+53.00	RT								1	2
S-5	41	SHARED USE PATH	14+70.00	RT	W1-7-48	48 X 24	12.5 / 12.5			2	8		
S-6	41	SHARED USE PATH	20+50.00	RT	W1-7-48	48 X 24	12.5 / 12.5			2	8		
S-7	41	SHARED USE PATH	23+80.00	RT	W1-7-48	48 X 24	12.5 / 12.5			2	8		
R-7	42	SHARED USE PATH	24+68.00	RT								1	1
R-8	42	SHARED USE PATH	24+90.00	RT								1	1
R-9	42	SHARED USE PATH	26+99.00	RT								1	2
R-10	42	SHARED USE PATH	30+08.00	LT								2	1
R-11	42	SHARED USE PATH	30+22.00	LT								1	2
R-12	42	SHARED USE PATH	31+80.00	LT								1	1
R-13	42	SHARED USE PATH	33+25.00	LT								1	1
R-14	42	SHARED USE PATH	33+56.00	LT								1	1
R-15	42	SHARED USE PATH	33+60.00	LT								1	1
R-16	42	SHARED USE PATH	33+64.00	LT								1	1
S-8	42	SHARED USE PATH	24+80.00	RT	W1-5-30	30 X 30		14		1	6.25		
S-9	42	SHARED USE PATH	27+05.00	RT	W1-7-48	48 X 24	12.5 / 12.5			2	8		
S-10	42	SHARED USE PATH	28+55.00	RT	R2-1-24	24 X 30	13				5		
S-11	42	SHARED USE PATH	30+27.00	LT	W1-7-48	48 X 24	12.5 / 12.5			2	8		
S-12	42	SHARED USE PATH	29+42.00	LT	W7-5-18	18 X 18	12.6			1	2.25		
S-13	42	SHARED USE PATH	33+58.00	LT	OM4-1-18	18 X 18	9.6			1	2.25		
S-14	42	SHARED USE PATH	33+59.00	LT	SPECIAL	12 X 18	9				1.5		
S-15	42	SHARED USE PATH	33+62.00	LT	OM4-1-18	18 X 18	9.6			1	2.25		
S-16	42	SHARED USE PATH	33+65.00	LT	OM4-1-18	18 X 18	9.6			1	2.25		
TOTALS CARRIED TO GENERAL SUMMARY							222.4	28.0	14.5	18	94.50	18	22

REF NO.	SHEET NO.	STATION TO STATION			620 DELINEATOR, POST GROUND MOUNTED (WHITE) EACH		642 EDGE LINE, 6", TYPE 1 MILE
			TO				
EL-1	42	29+25.00		33+38.00	21		0.08
TOTALS CARRIED TO GENERAL SUMMARY					21		0.08

CUY-SOUTH PARK SHARED USE PATH

TRAFFIC CONTROL SUBSUMMARY

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Traffic\Sheets\121603_TS001.dwg

DESIGN AGENCY

OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 17 TOTAL 47

PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	1.99	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.4-0.9
PROJECT EARTH DISTURBED AREA	1.86	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.4-0.9
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.25	IMMEDIATE RECEIVING WATERS	WEST CREEK
NOTICE OF INTENT EARTH DISTURBED AREA	2.11	SUBSEQUENT RECEIVING WATER	CUYAHOGA RIVER
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	0.32	USGS MAP: CLEVELAND SOUTH QUADRANGLE CLEVELAND, OHIO	
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	0.91	LATITUDE: N 41 °24'05" LONGITUDE: W 81 °42'05"	

BMP TYPE	LATITUDE/LONGITUDE				BMP WIDTH	EDA TREATMENT CREDIT
	BEGIN		END		(FEET)	(ACRES)
VEGETATED FILTER STRIP	41.404897	-81.699675	41.404613	-81.699686	10	0.02
VEGETATED FILTER STRIP	41.404796	-81.699774	41.403843	-81.699629	10	0.23
VEGETATED FILTER STRIP	41.404155	-81.699673	41.403639	-81.699256	15	0.09
VEGETATED FILTER STRIP	41.402265	-81.699839	41.402207	-81.700195	8	0.08
					TREATMENT PROVIDED	0.42
					TREATMENT REQUIRED	0.37

LEGEND:

- ASPHALT SHARED USE PATH
- CONCRETE DRIVE APRON
- CONCRETE WALK
- VEGETATED FILTER STRIP

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

QUANTITIES

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

832, STORM WATER POLLUTION PREVENTION PLAN — LS

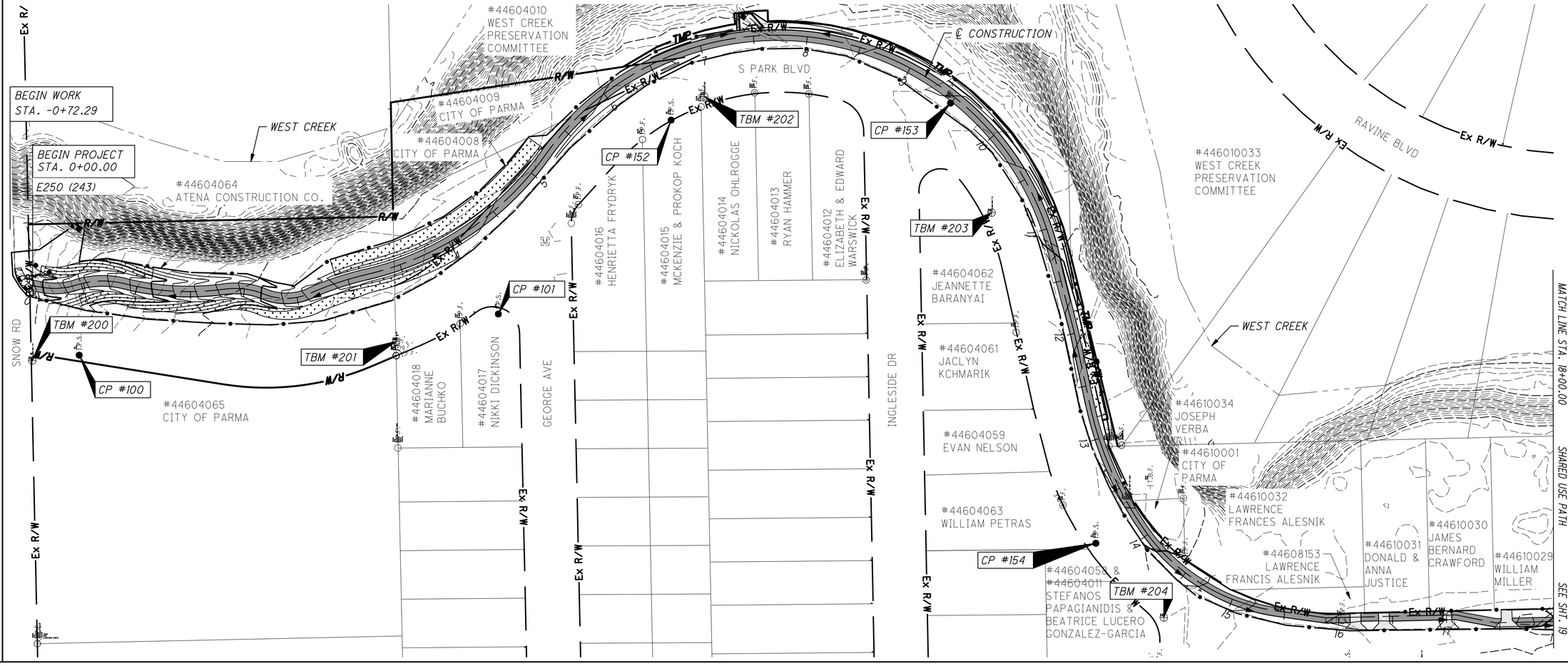
832, STORM WATER POLLUTION PREVENTION INSPECTIONS — LS

832, STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE — LS

NOTES:

FOR PROJECT CONTROL AND BENCHMARKS SEE SHEET 4

FOR SHARED USE PATH ALIGNMENT INFORMATION, SEE SHEET 2



PROJECT SITE PLAN
STA. 0+00 TO STA. 18+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Drainage\Sheets\121603_DP.dwg

DESIGN AGENCY: OHM

DESIGNER: CB

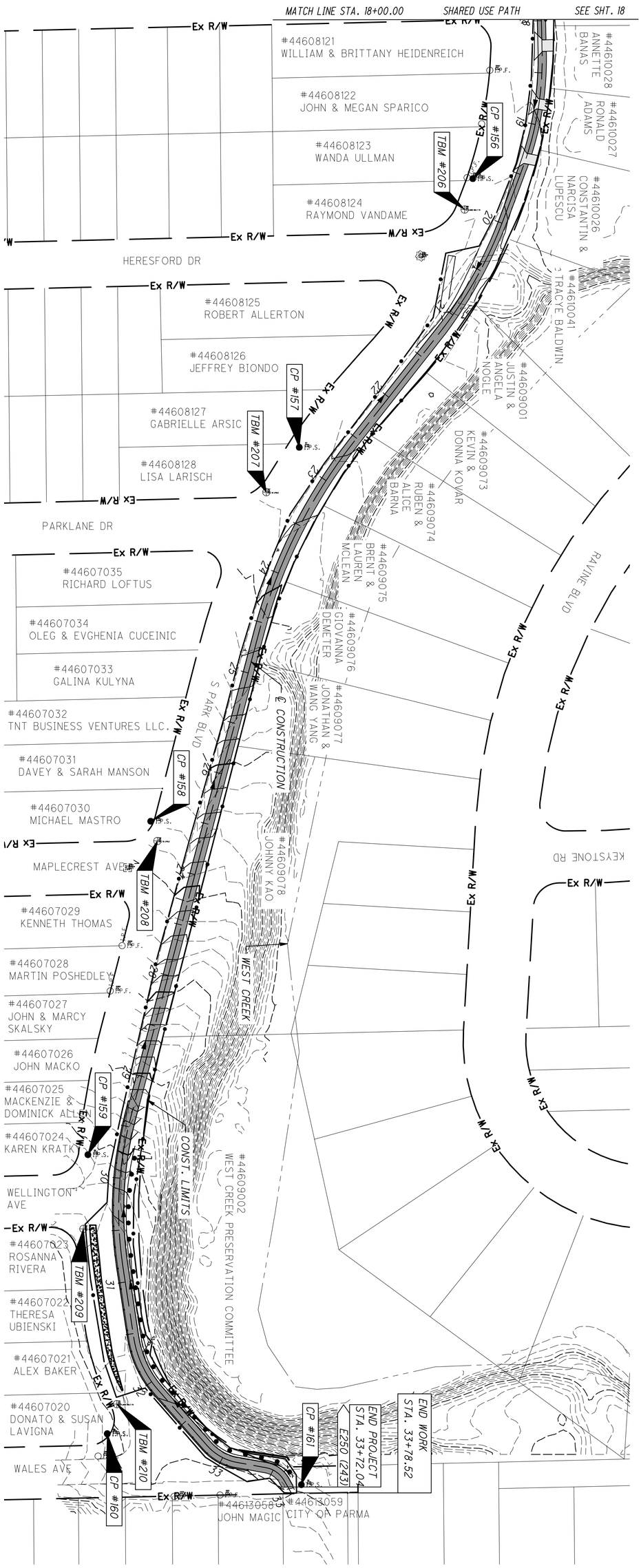
REVIEWER: JH

PROJECT ID: 121603

SHEET 18 | TOTAL 47

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Drainage\Sheets\121603_DP.dwg



NOTES:

FOR PROJECT CONTROL AND BENCHMARKS SEE SHEET 4

FOR SHARED USE PATH ALIGNMENT INFORMATION, SEE SHEET 3

LEGEND:

- ASPHALT SHARED USE PATH
- CONCRETE DRIVE APRON
- CONCRETE WALK
- VEGETATED FILTER STRIP
- PROPOSED ROADWAY

PROJECT SITE PLAN

STA. 18+00 TO STA. 33+80

HORIZONTAL SCALE IN FEET

0 50

25 100

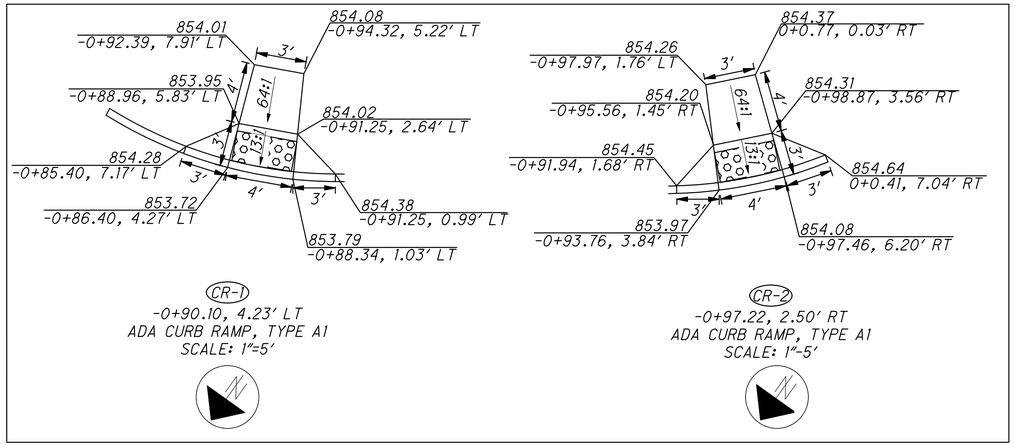
SHEET	TOTAL
19	47

PROJECT ID: 121603

DESIGNER: CB

REVIEWER: JH

DESIGN AGENCY: OHM

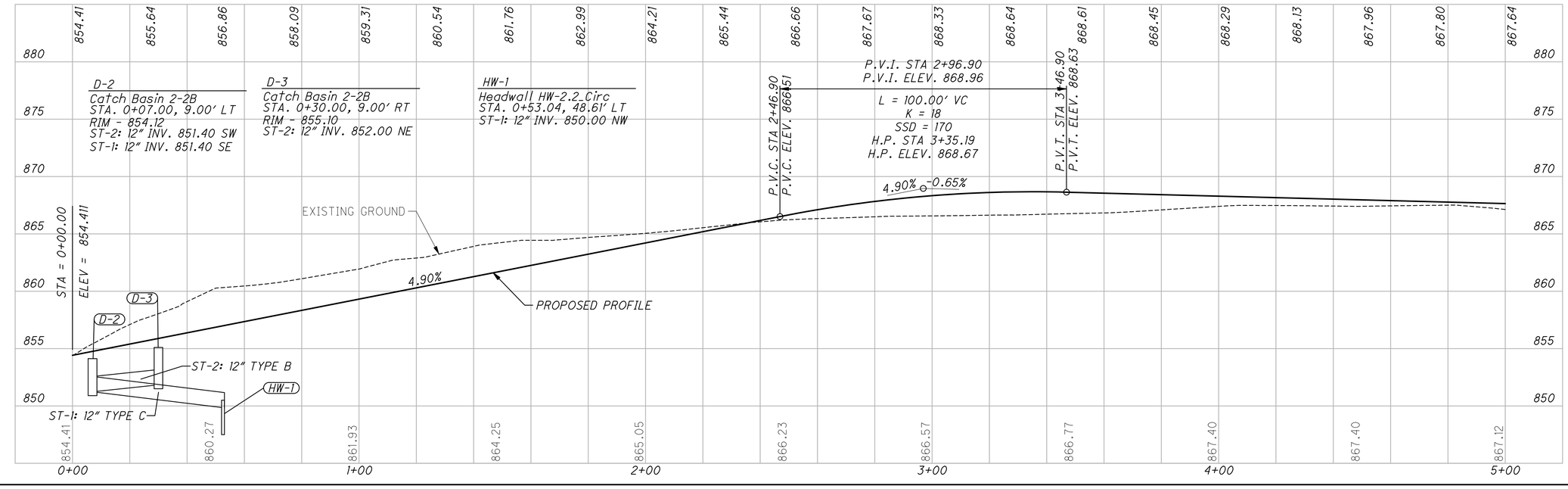


CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
38	DRAINAGE DETAILS

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- 6" UNDERDRAIN
- GUARDRAIL, TYPE MGS
- 4" CONCRETE WALK
- VEGETATED FILTER STRIP
- TREE OR STUMP REMOVED
- (C-#) PROPOSED CURB
- (CR-#) PROPOSED CURB RAMP
- (D-#) PROPOSED DRAINAGE STRUCTURE
- (FR-#) FENCE REMOVED
- (G-#) PROPOSED GUARDRAIL
- (GR-#) GUARDRAIL REMOVED
- (HW-#) PROPOSED HEADWALL
- (ST-#) PROPOSED STORM CONDUIT
- (SW-#) PROPOSED SIDEWALK
- (SWR-#) SIDEWALK/CURB REMOVED
- (UD-#) PROPOSED UNDERDRAIN



PLAN AND PROFILE
STA. 0+00 TO STA. 5+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_PP001.dwg

DESIGN AGENCY
OHM

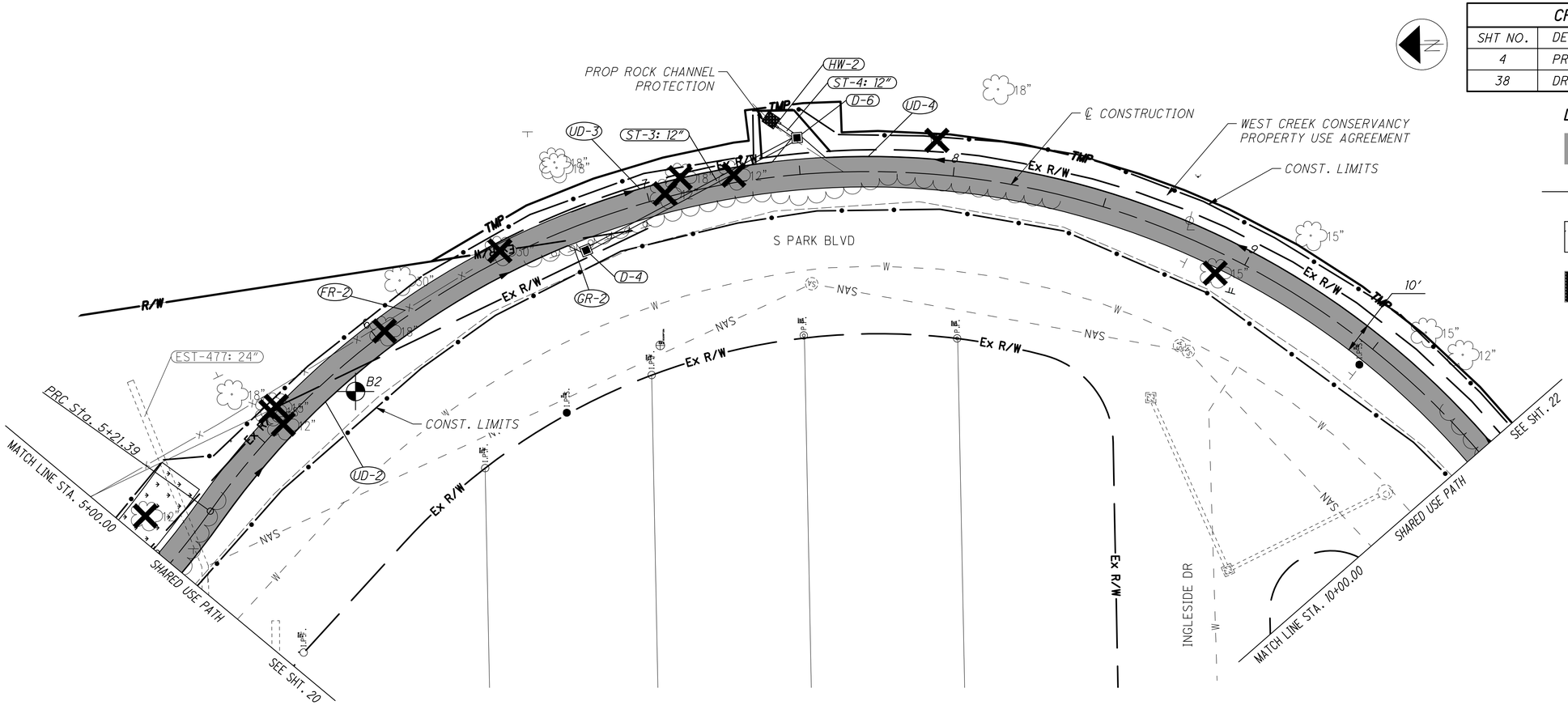
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	20
TOTAL	47

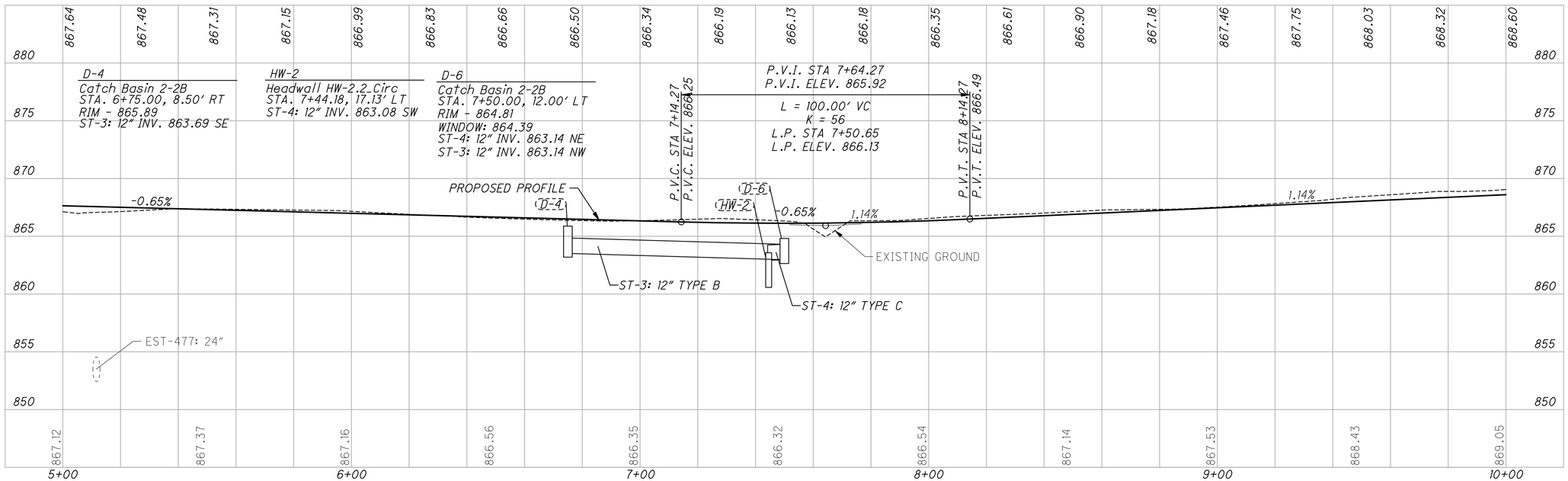
CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
38	DRAINAGE DETAILS

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- 6" UNDERDRAIN
- VEGETATED FILTER STRIP
- PROPOSED ROCK CHANNEL PROTECTION
- TREE OR STUMP REMOVED
- (D-#) PROPOSED DRAINAGE STRUCTURE
- (EST-#) EXISTING STORM CONDUIT
- (FR-#) FENCE REMOVED
- (GR-#) GUARDRAIL REMOVED
- (HW-#) PROPOSED HEADWALL
- (ST-#) PROPOSED STORM CONDUIT
- (UD-#) PROPOSED UNDERDRAIN





PLAN AND PROFILE
STA. 5+00 TO STA. 10+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\v400-Engineering\Roadway\Sheets\230010_PP002.dwg

DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	21
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

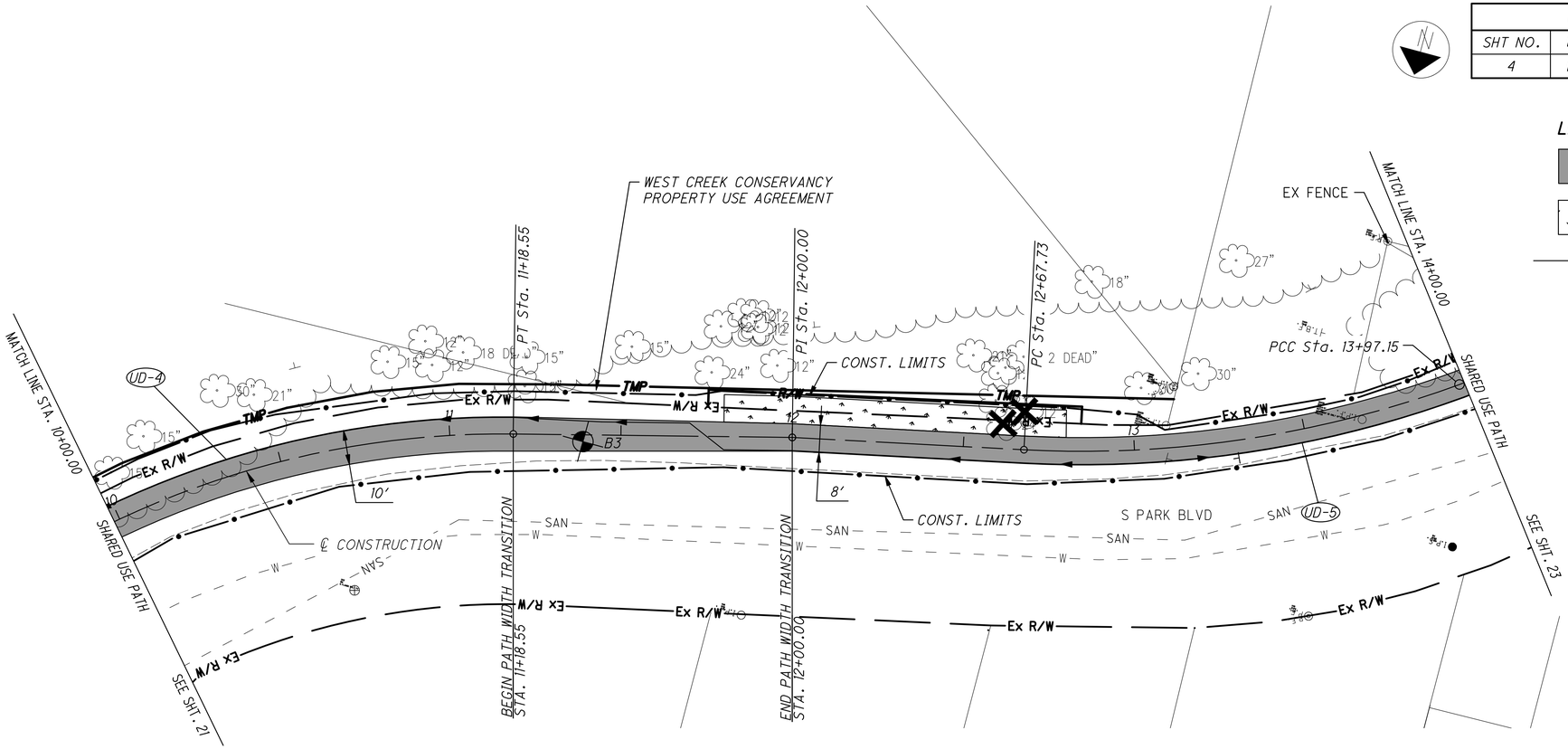
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_PP003.dwg

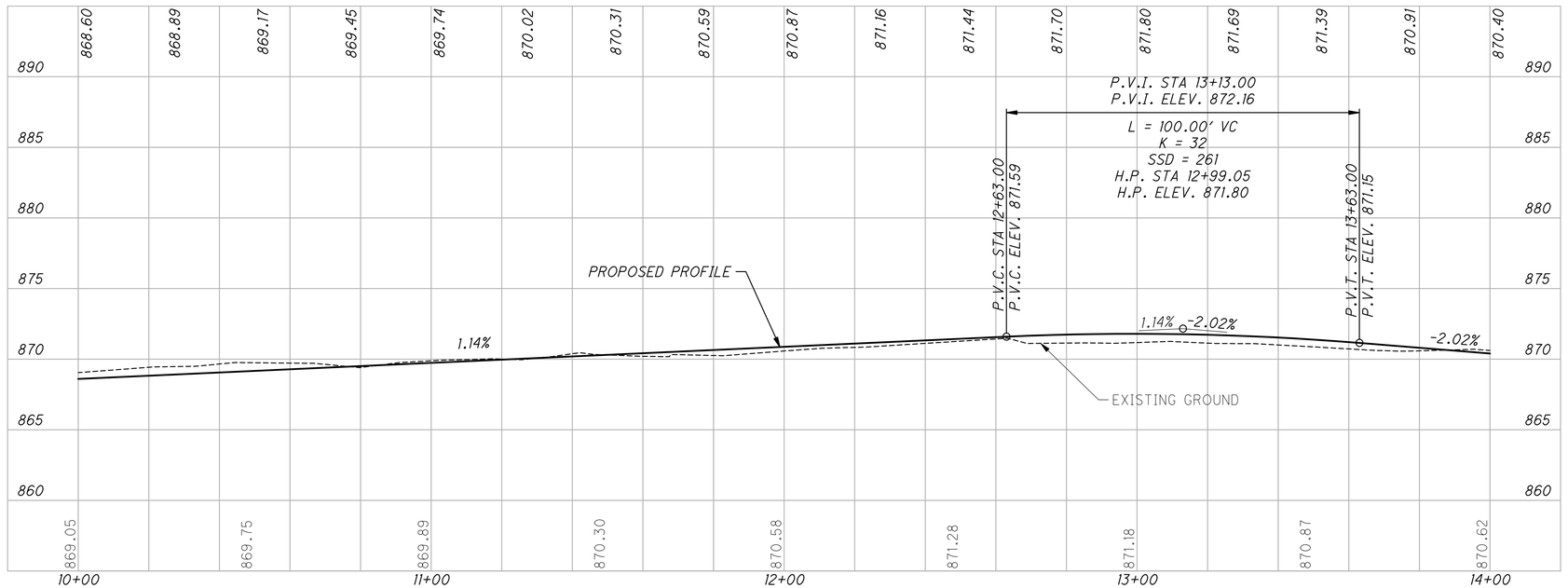
CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

LEGEND:

- ASPHALT SHARED USE PATH
- VEGETATED FILTER STRIP
- 6" UNDERDRAIN
- TREE OR STUMP REMOVED
- (UD-#) PROPOSED UNDERDRAIN





PLAN AND PROFILE
STA. 10+00 TO STA. 14+00

DESIGN AGENCY: OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	22
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

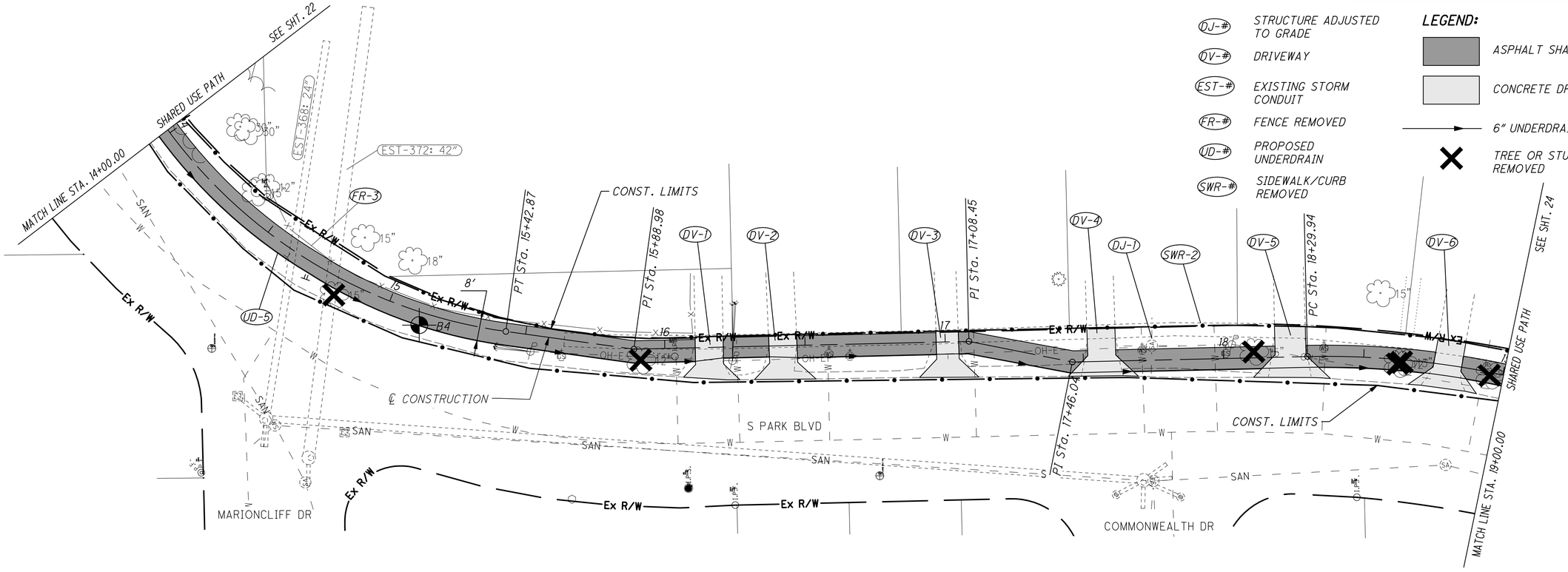
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_PP004.dwg

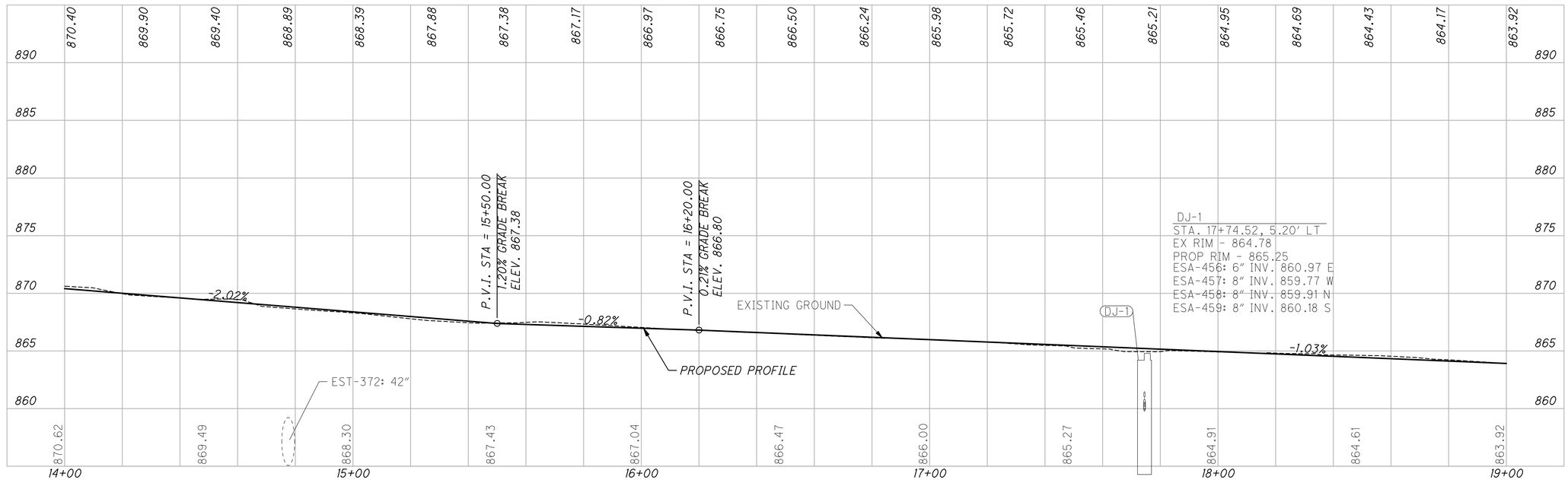
CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
37	DRIVEWAY DETAILS

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- DJ-# — STRUCTURE ADJUSTED TO GRADE
- DV-# — DRIVEWAY
- EST-# — EXISTING STORM CONDUIT
- FR-# — FENCE REMOVED
- UD-# — PROPOSED UNDERDRAIN
- SWR-# — SIDEWALK/CURB REMOVED
- ASPHALT SHARED USE PATH
- CONCRETE DRIVE APRON
- 6" UNDERDRAIN
- TREE OR STUMP REMOVED





PLAN AND PROFILE
STA. 14+00 TO STA. 19+00

DESIGN AGENCY
OHM

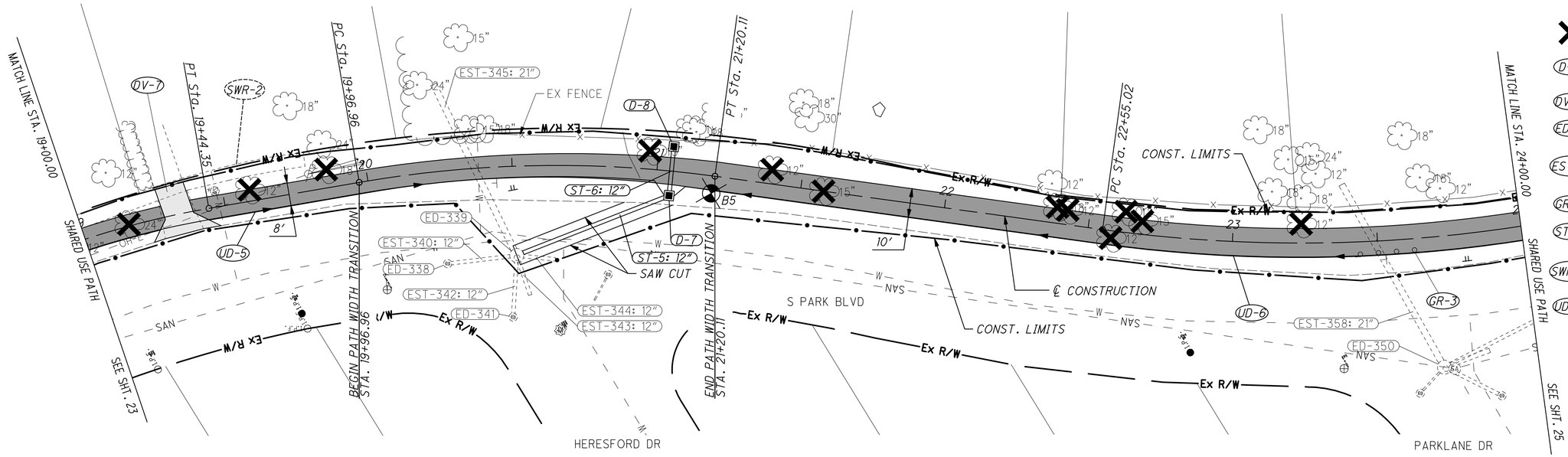
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	23
TOTAL	47

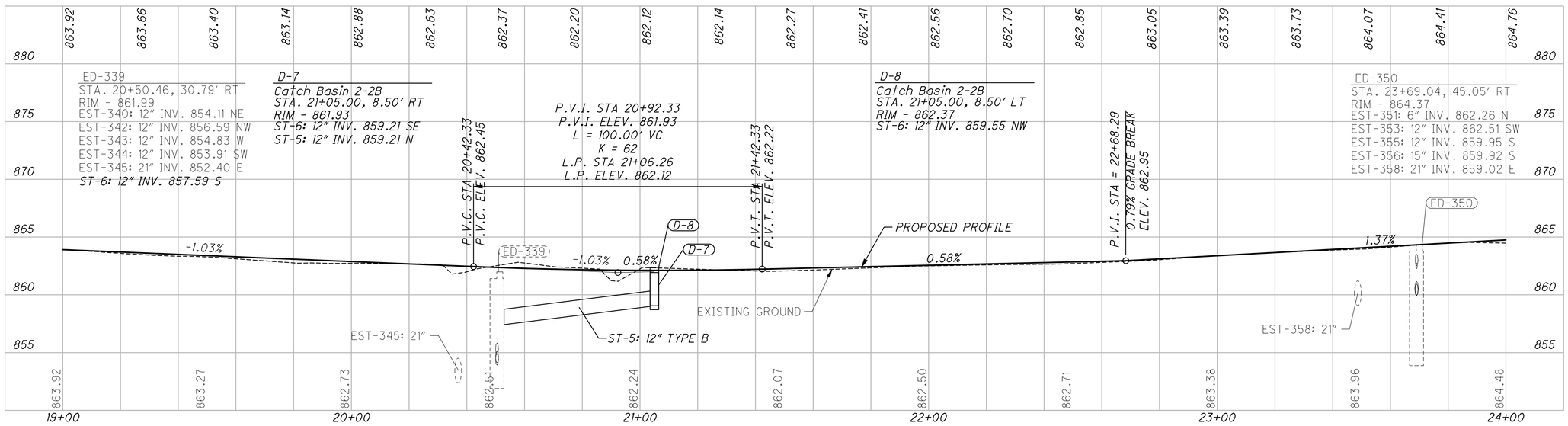
CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
37	DRIVEWAY DETAILS
38	DRAINAGE DETAILS

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- CONCRETE DRIVE APRON
- 6" UNDERDRAIN
- TREE OR STUMP REMOVED
- (D-#) PROPOSED DRAINAGE STRUCTURE
- (DV-#) DRIVEWAY
- (ED-#) EXISTING DRAINAGE STRUCTURE
- (EST-#) EXISTING STORM CONDUIT
- (GR-#) GUARDRAIL REMOVED
- (ST-#) PROPOSED STORM CONDUIT
- (SWR-#) SIDEWALK/CURB REMOVED
- (UD-#) PROPOSED UNDERDRAIN





PLAN AND PROFILE
STA. 19+00 TO STA. 24+00

DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	24
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

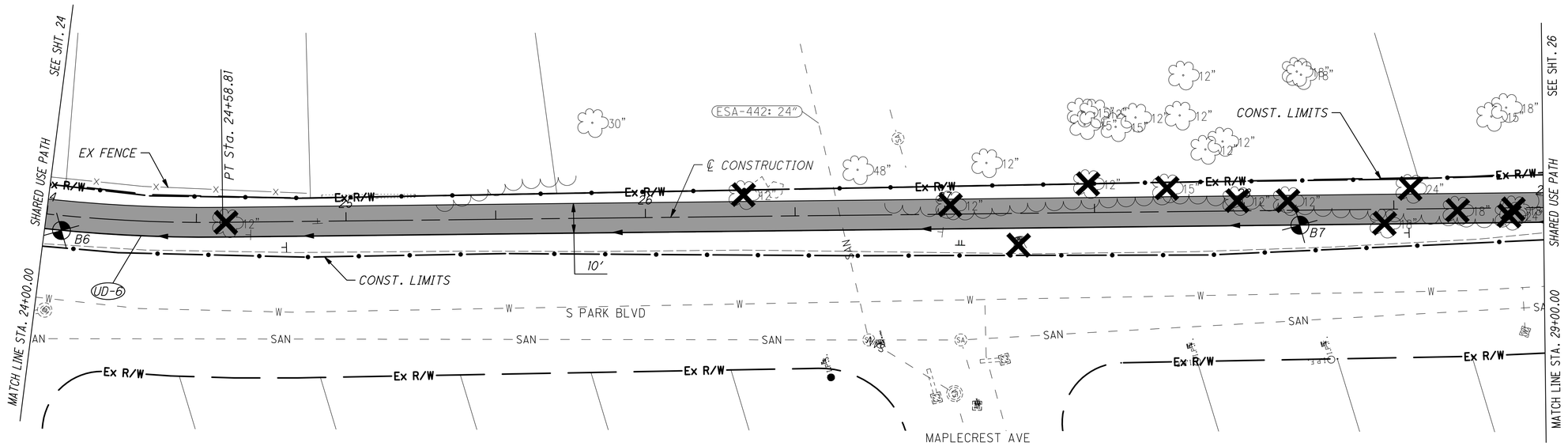
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\2300010_PP005.dwg

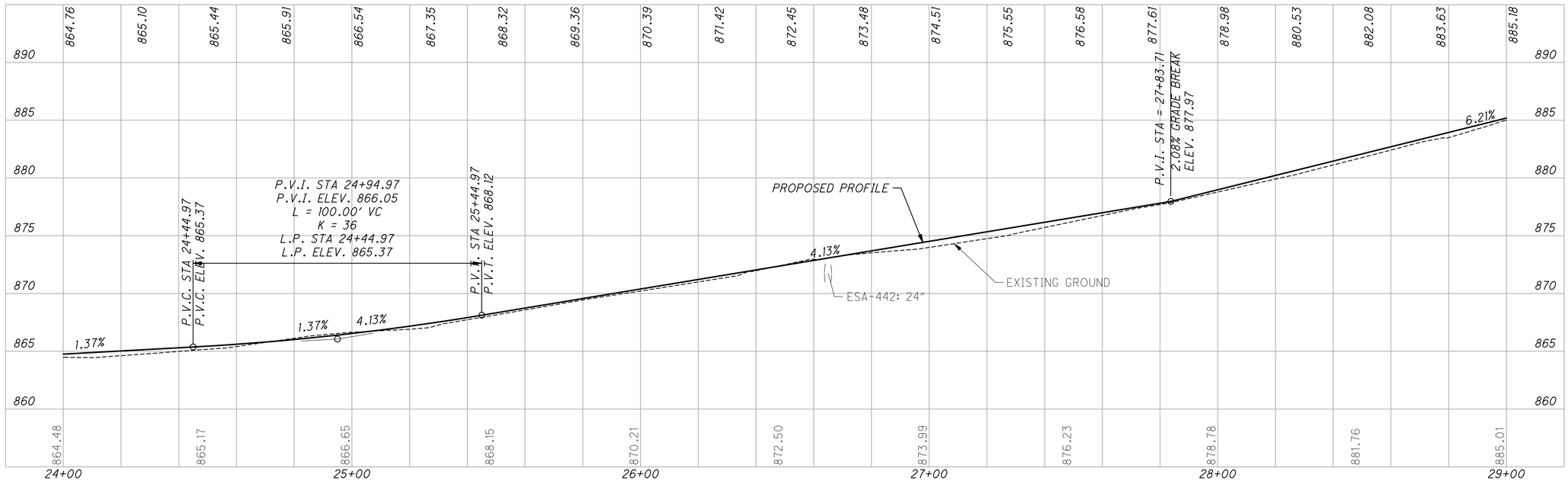
CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ESA-# — EXISTING SANITARY CONDUIT
- UD-# — PROPOSED UNDERDRAIN
- ASPHALT SHARED USE PATH
- 6" UNDERDRAIN
- TREE OR STUMP REMOVED





PLAN AND PROFILE
STA. 24+00 TO STA. 29+00

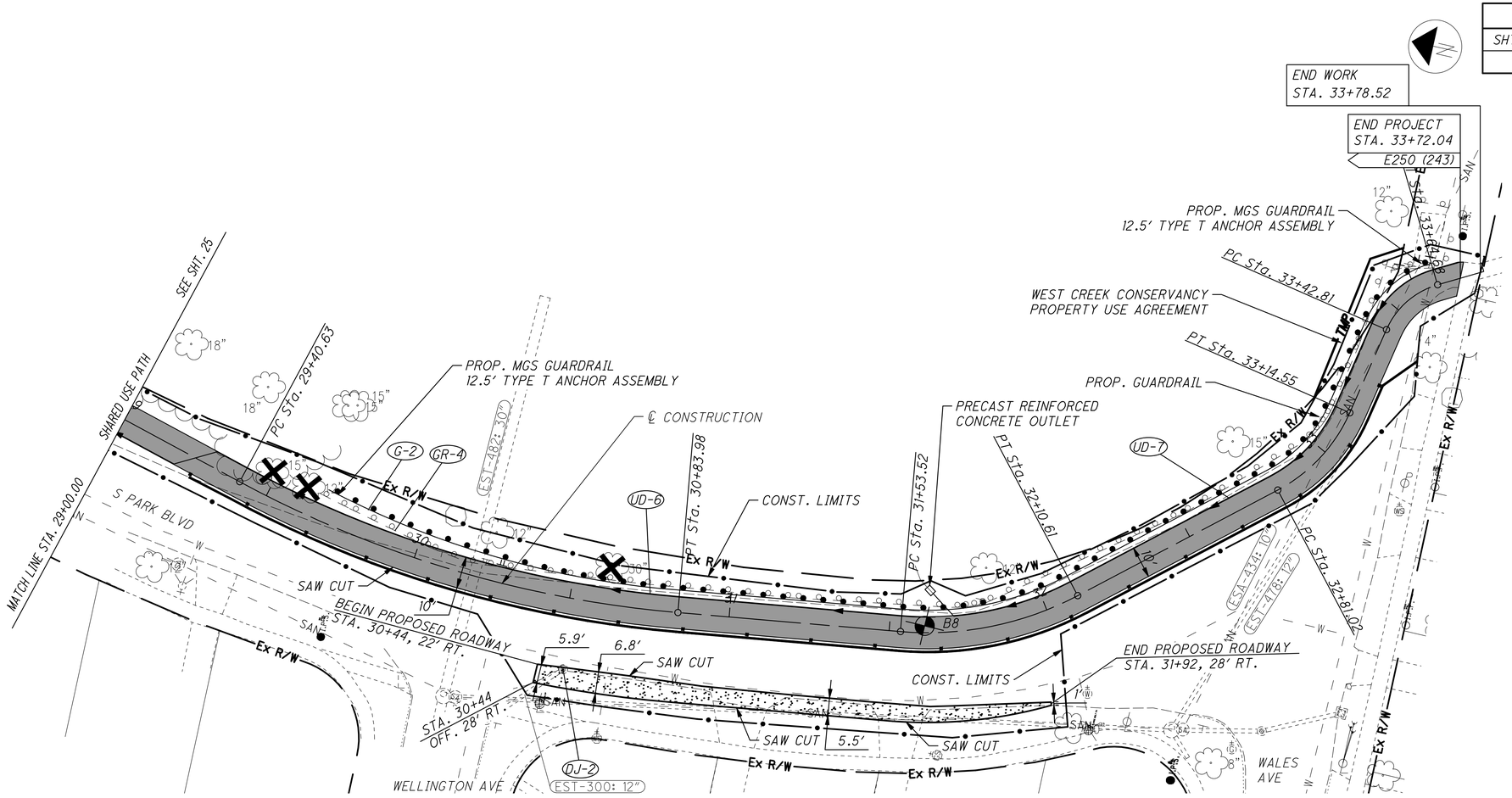
CUY-SOUTH PARK SHARED USE PATH

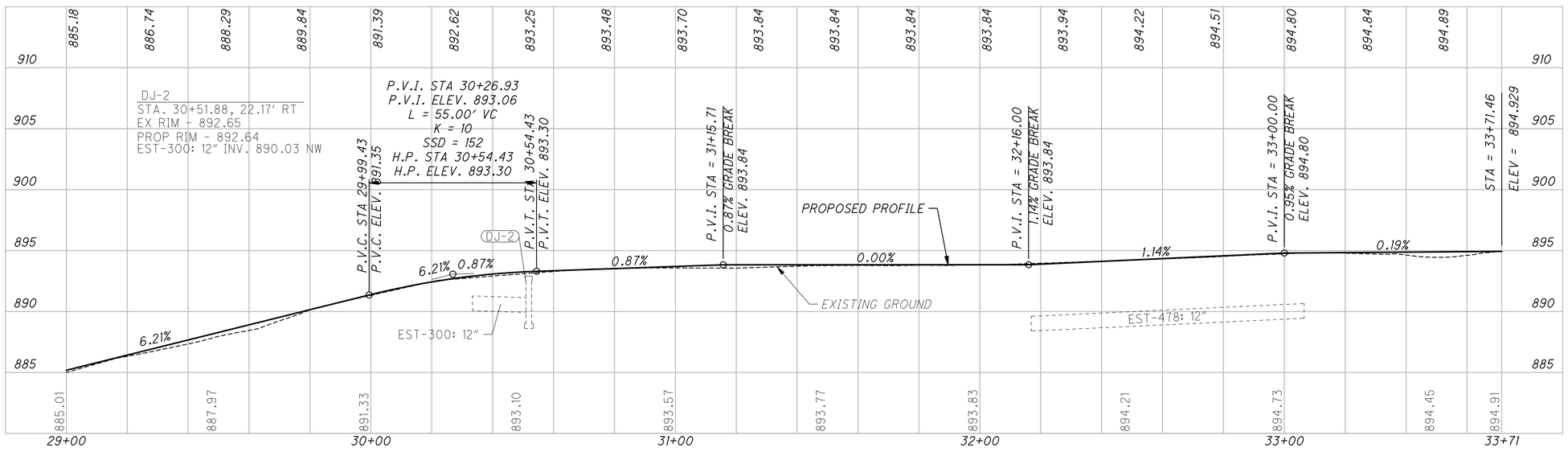
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_PP006.dwg

DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	25
TOTAL	47

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE
STA. 29+00 TO STA. 33+80

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\80472300010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_PP007.dwg

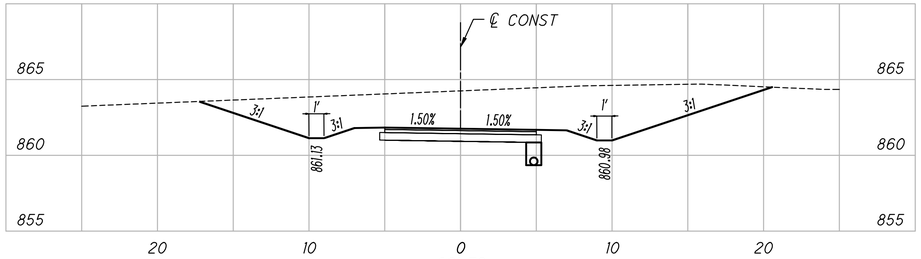
DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	26
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg

END AREA		VOLUME	
CUT	FILL	CUT	FILL

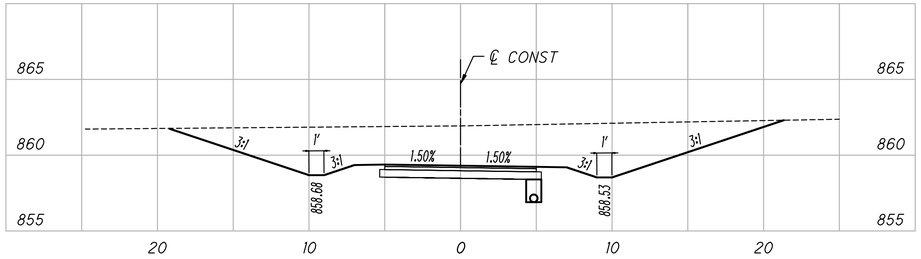


861.76

STA. 1+50.00

864.25

END AREA		VOLUME	
CUT	FILL	CUT	FILL
92	0		
		178	0

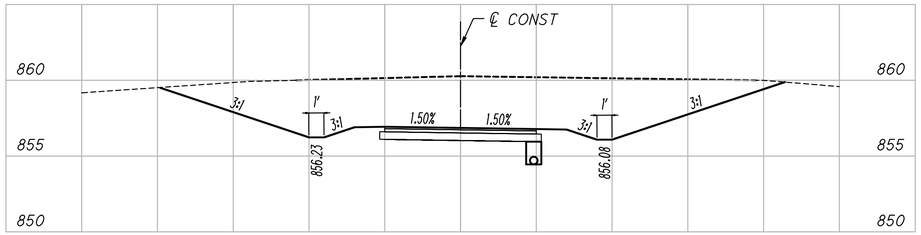


859.31

STA. 1+00.00

861.93

END AREA		VOLUME	
CUT	FILL	CUT	FILL
100	0		
		205	0

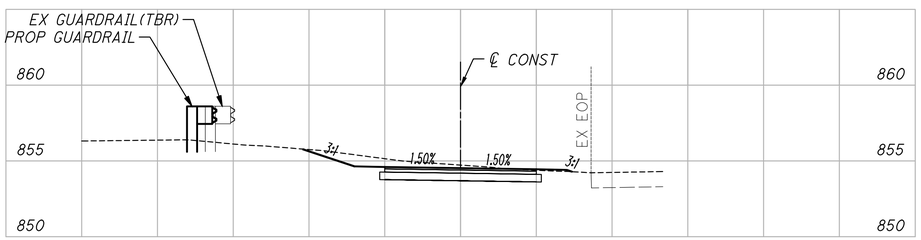


856.86

STA. 0+50.00

860.27

END AREA		VOLUME	
CUT	FILL	CUT	FILL
121	0		
		119	0



854.52

STA. 0+02.25

854.72

BEGIN PROJECT STA. 0+02.25

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
14	0		
		502	0

CROSS SECTIONS

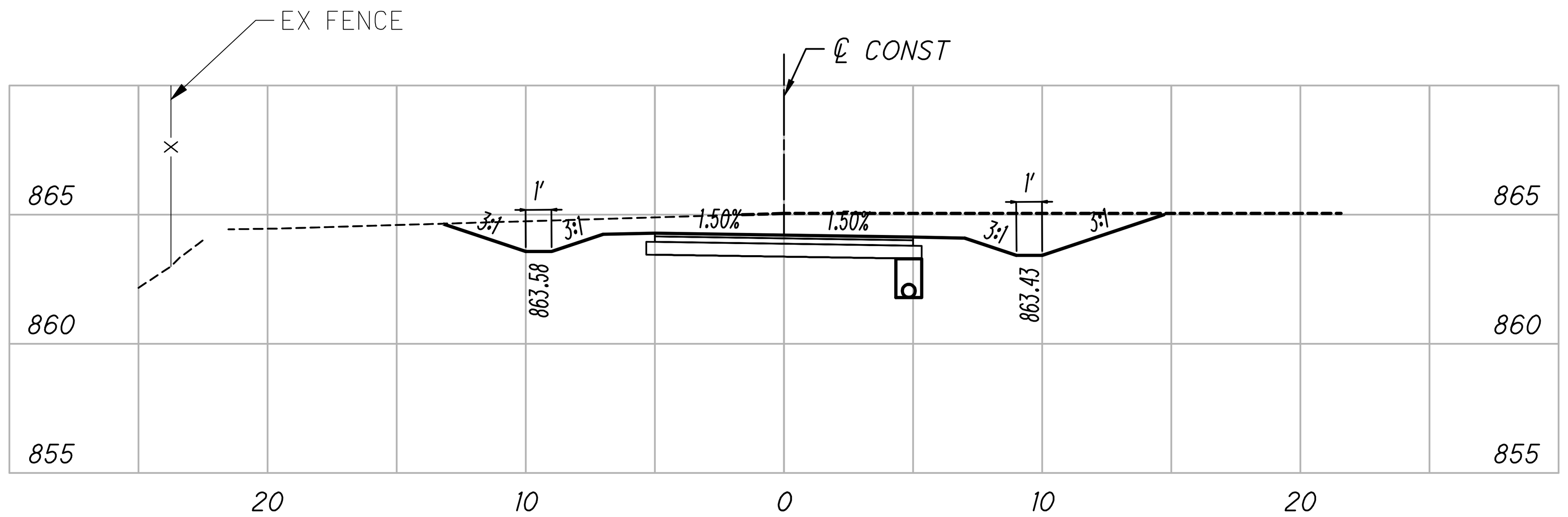
STA. 0+02.25 TO STA. 1+50

DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	27
TOTAL	47

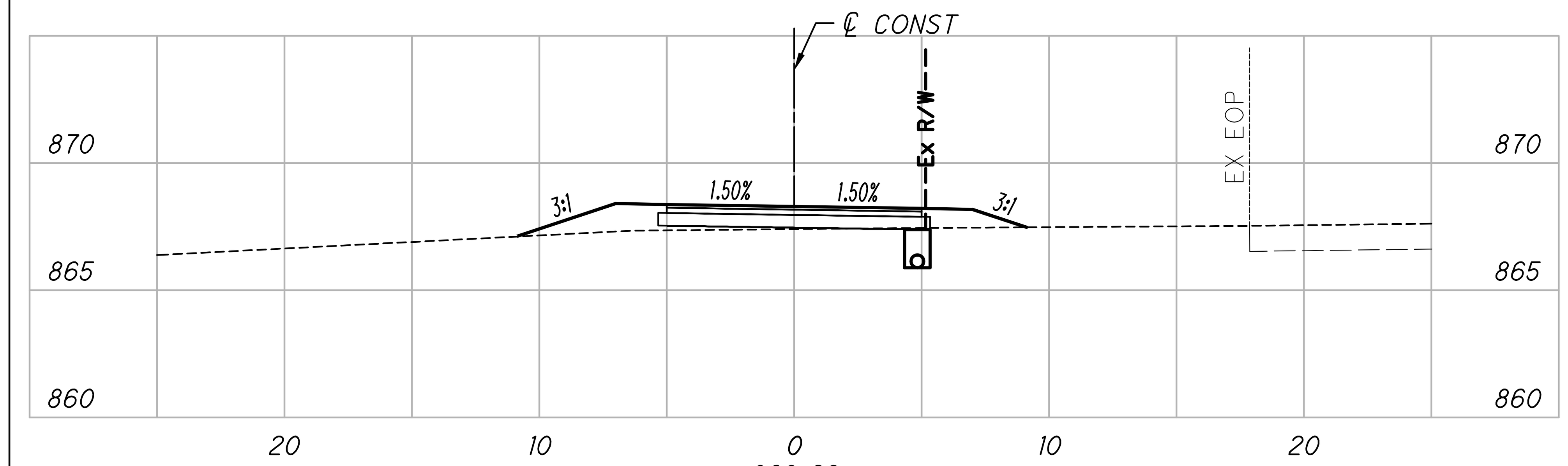
CROSS SECTIONS
STA. 2+00 TO STA. 4+00



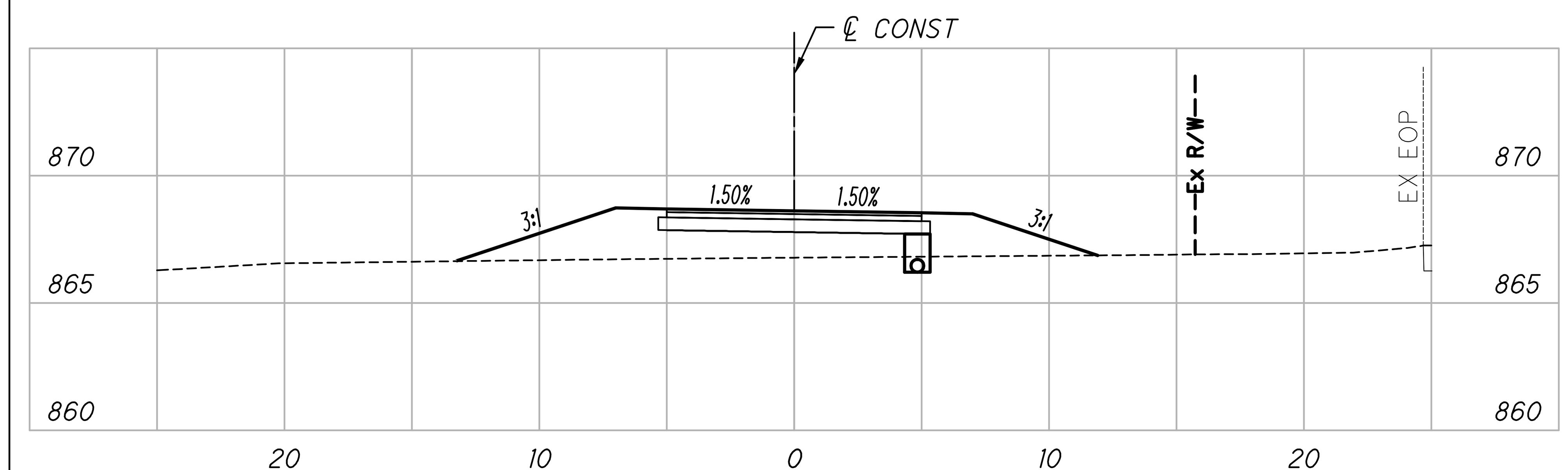
864.21
STA. 2+00.00
865.05

END AREA		VOLUME	
CUT	FILL	CUT	FILL
33	0		
		116	0
		116	0

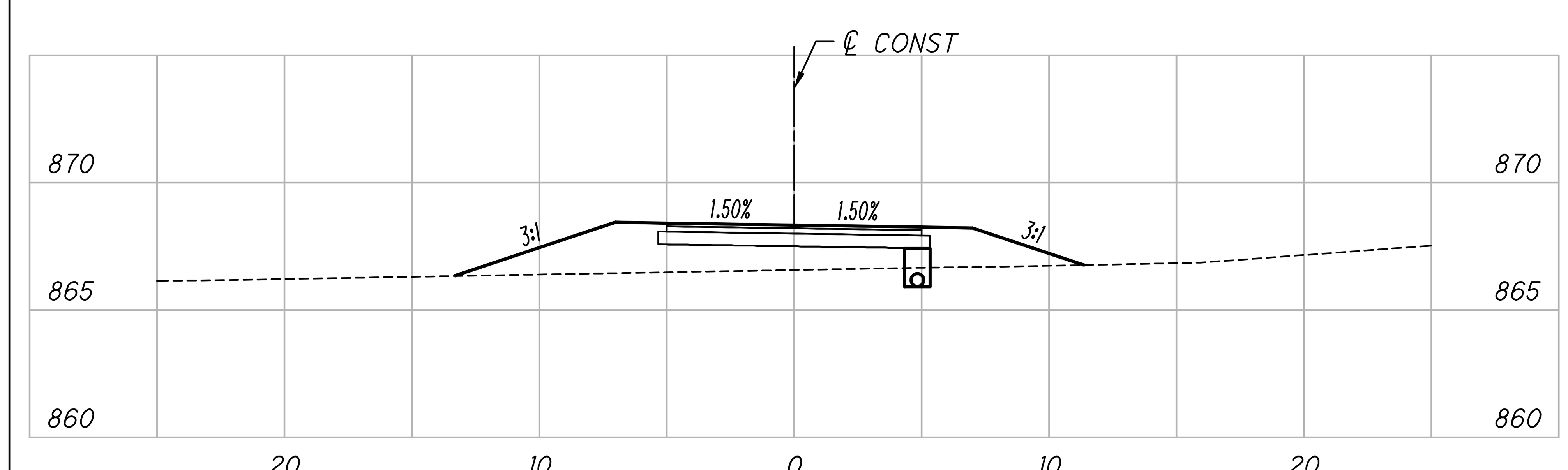
TOTALS CARRIED TO SHEET 13



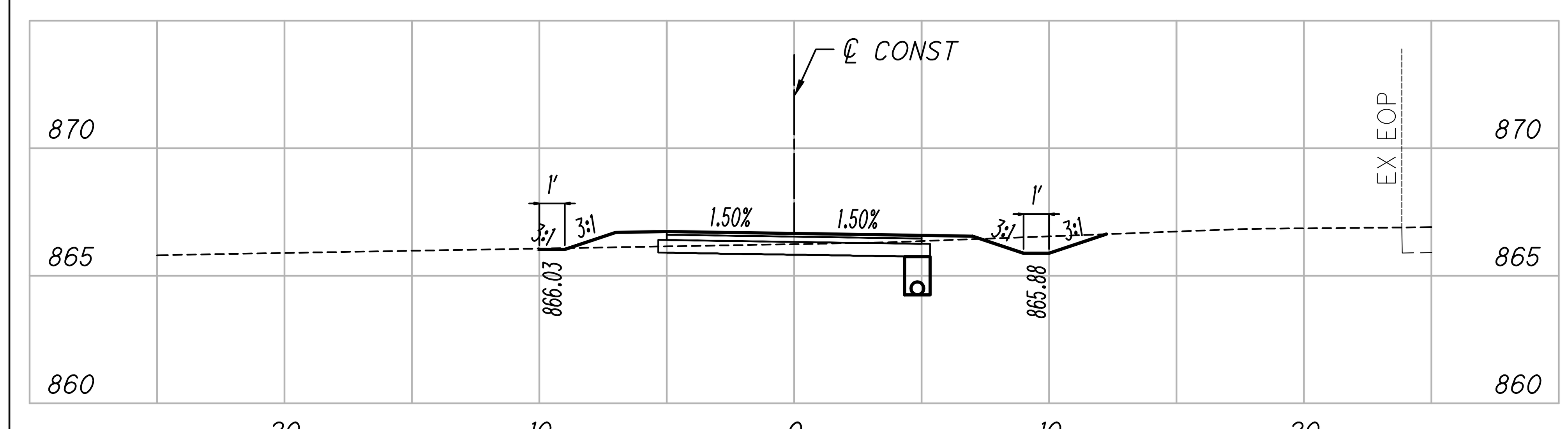
868.29
STA. 4+00.00
867.40



868.61
STA. 3+50.00
866.77



868.33
STA. 3+00.00
866.57



866.66
STA. 2+50.00
866.23

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	7		
		0	31
0	27		
		0	49
0	26		
		6	26
6	2		
		36	2
		42	108

TOTALS CARRIED TO SHEET 13

DESIGN AGENCY
OHM

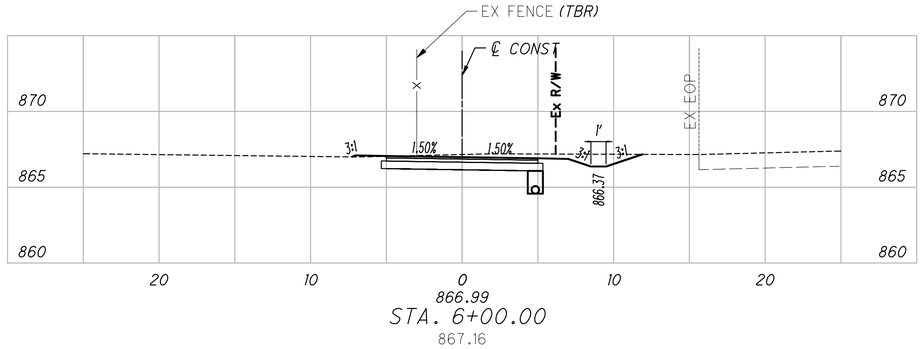
DESIGNER
CB

REVIEWER
JH

PROJECT ID
121603

CUY-SOUTH PARK SHARED USE PATH

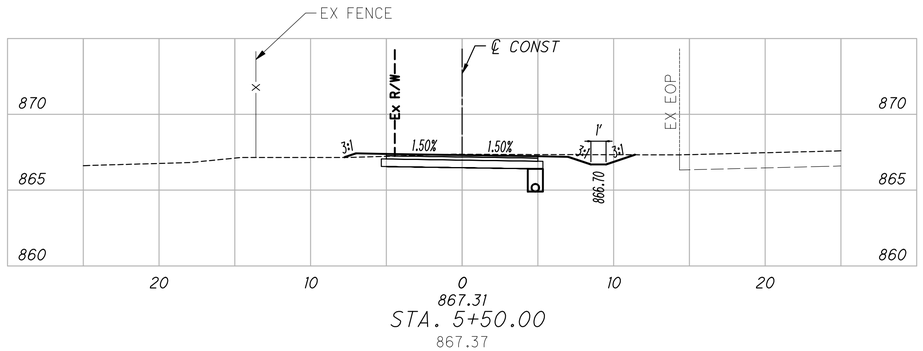
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg



866.99

STA. 6+00.00

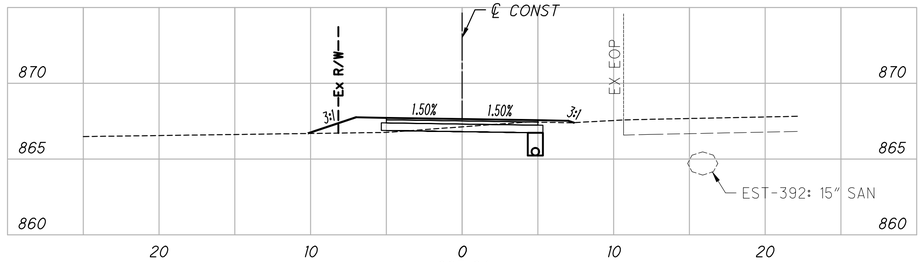
867.16



867.31

STA. 5+50.00

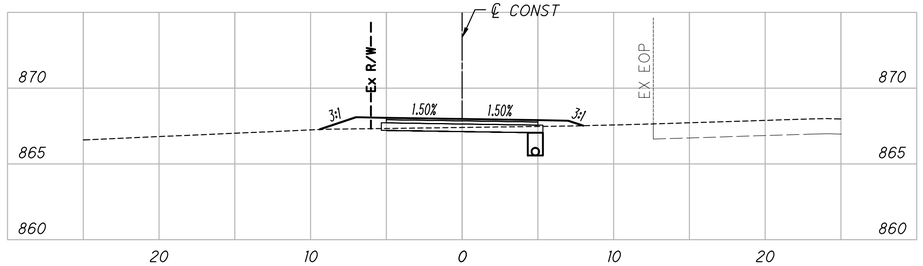
867.37



867.64

STA. 5+00.00

867.12



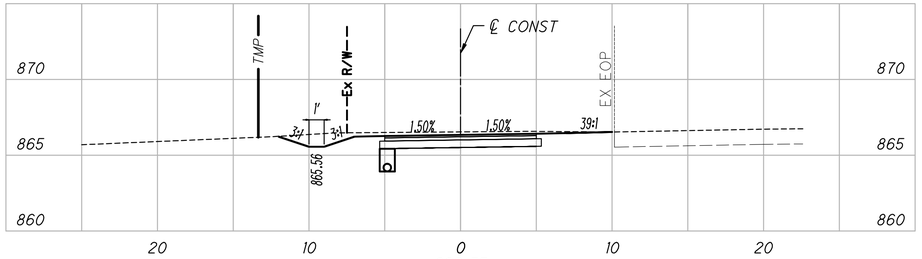
867.96

STA. 4+50.00

867.40

TOTALS CARRIED TO SHEET 13

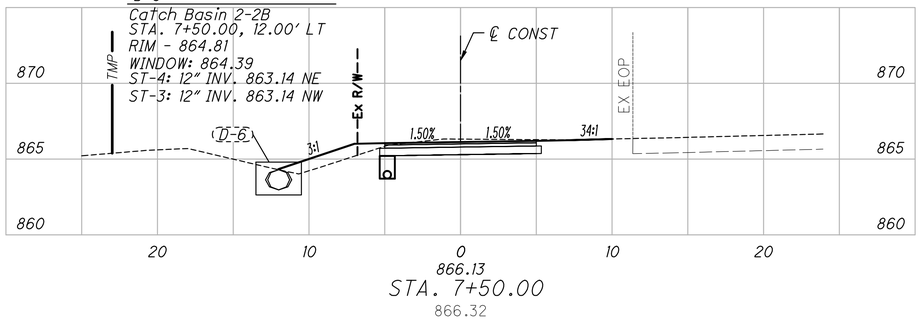
END AREA		VOLUME	
CUT	FILL	CUT	FILL
14	0		
		24	1
11	1		
		14	4
4	4		
		6	7
3	3		
		3	9
		47	21



866.35

STA. 8+00.00

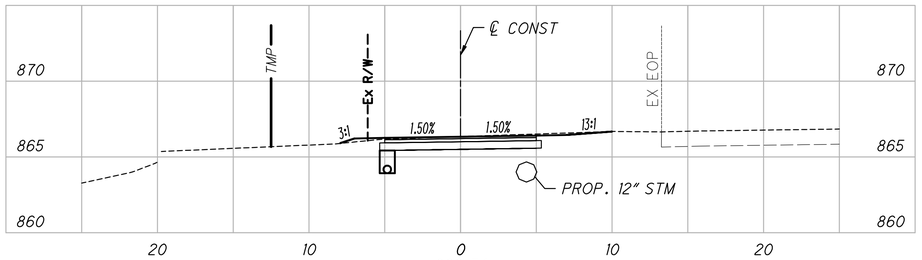
866.54



866.13

STA. 7+50.00

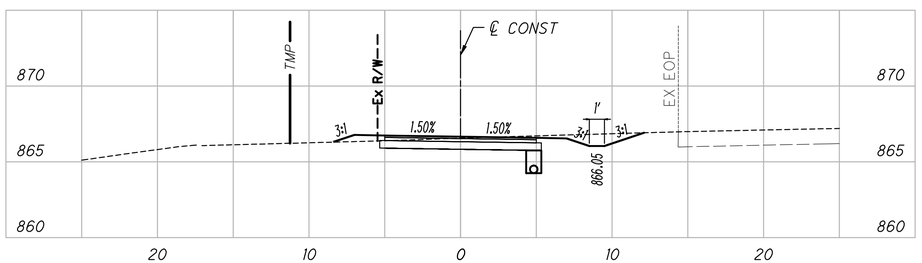
866.32



866.34

STA. 7+00.00

866.35



866.66

STA. 6+50.00

866.56

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
15	0		
		24	4
10	4		
		19	4
10	0		
		19	1
11	1		
		23	1
		85	10

CROSS SECTIONS

STA. 4+50 TO STA. 8+00

DESIGN AGENCY

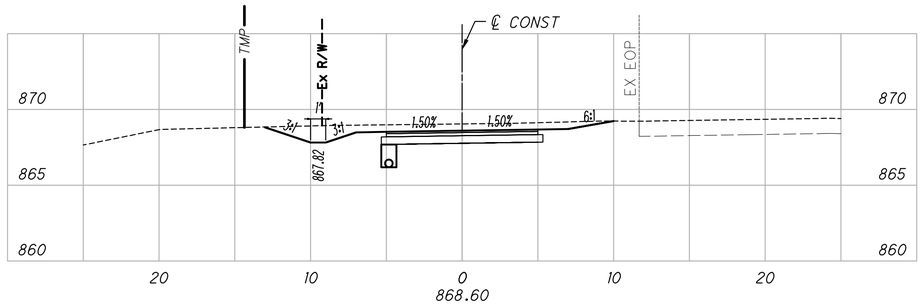
OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

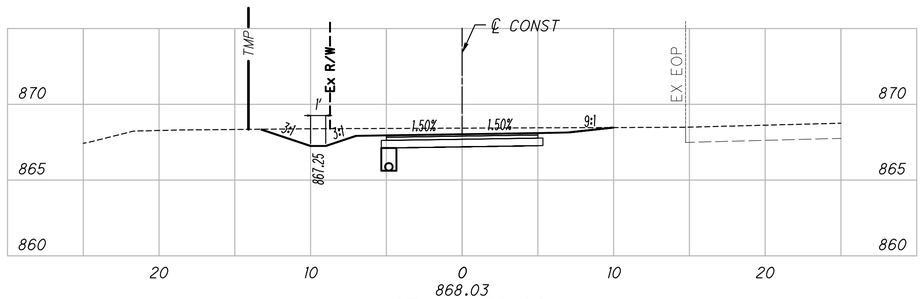
SHEET 29 TOTAL 47



868.60

STA. 10+00.00

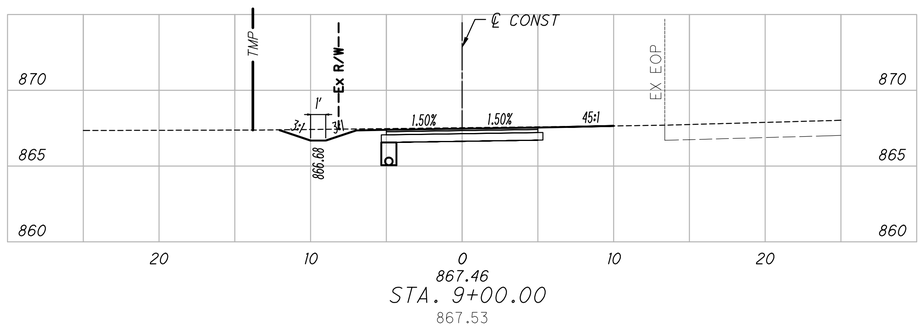
869.05



868.03

STA. 9+50.00

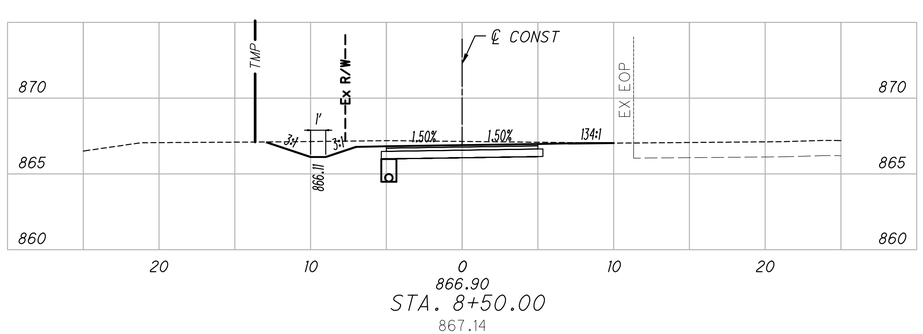
868.43



867.46

STA. 9+00.00

867.53

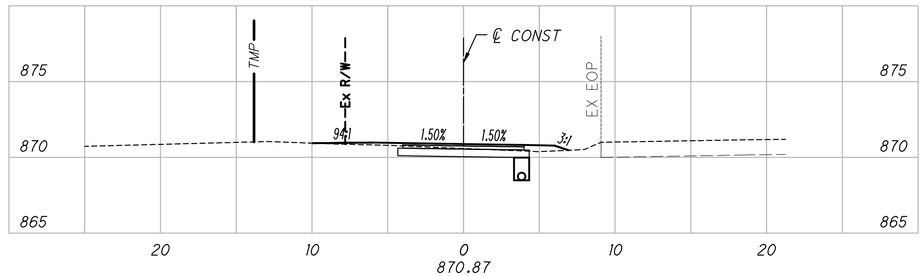


866.90

STA. 8+50.00

867.14

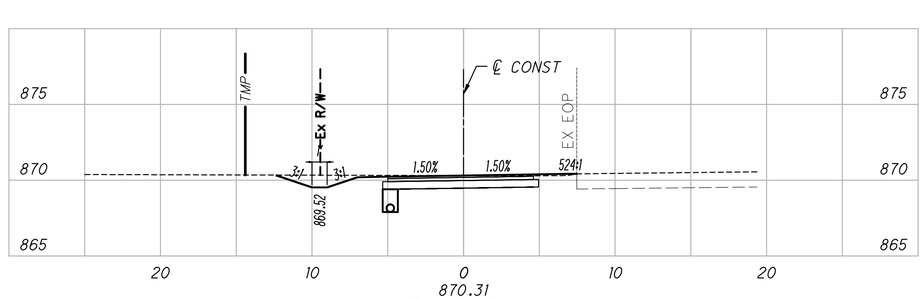
TOTALS CARRIED TO SHEET 13



870.87

STA. 12+00.00

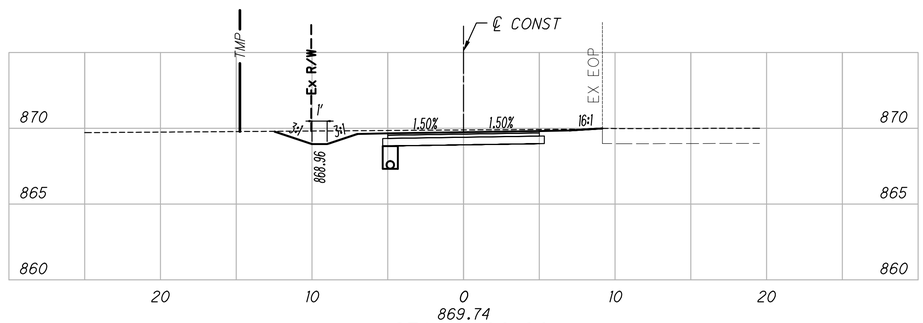
870.58



870.31

STA. 11+50.00

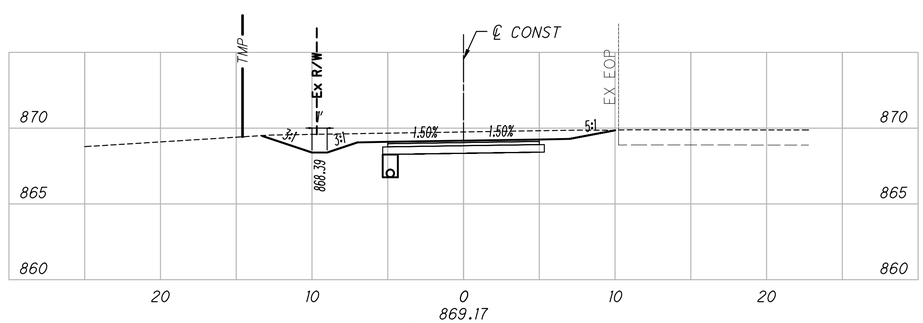
870.30



869.74

STA. 11+00.00

869.89



869.17

STA. 10+50.00

869.75

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
21	0	38	0
20	0	30	0
13	0	27	0
17	0	30	0
		125	0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
5	2	15	2
12	0	24	0
15	0	35	0
23	0	41	0
		115	2

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg

CROSS SECTIONS
STA. 8+50 TO STA. 12+00

DESIGN AGENCY

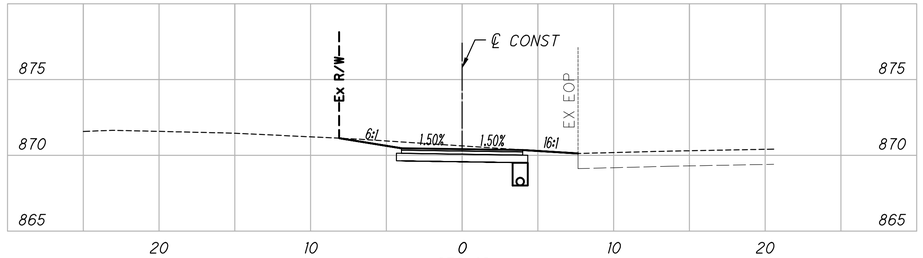
OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

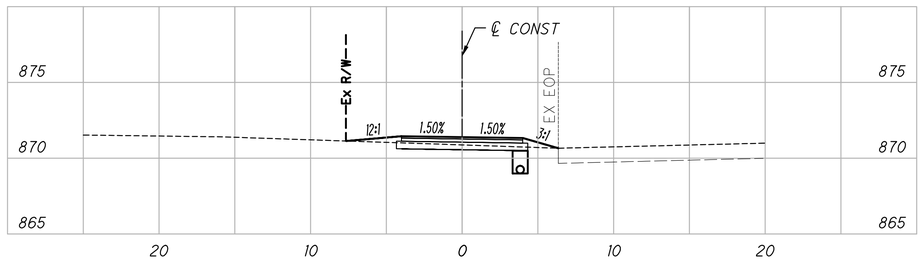
SHEET 30 TOTAL 47



870.40

STA. 14+00.00

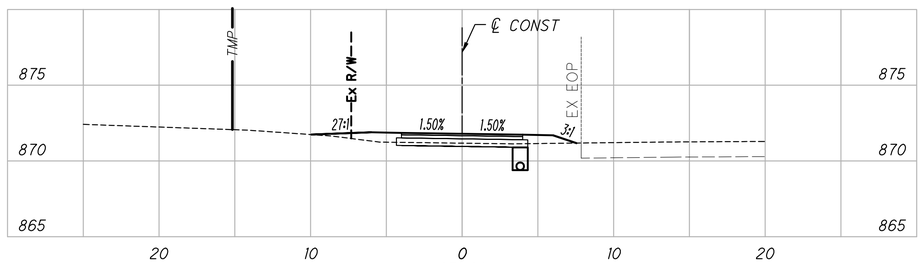
870.62



871.39

STA. 13+50.00

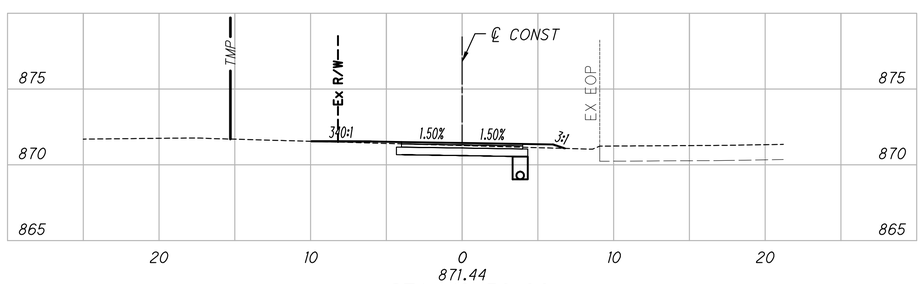
870.87



871.80

STA. 13+00.00

871.18



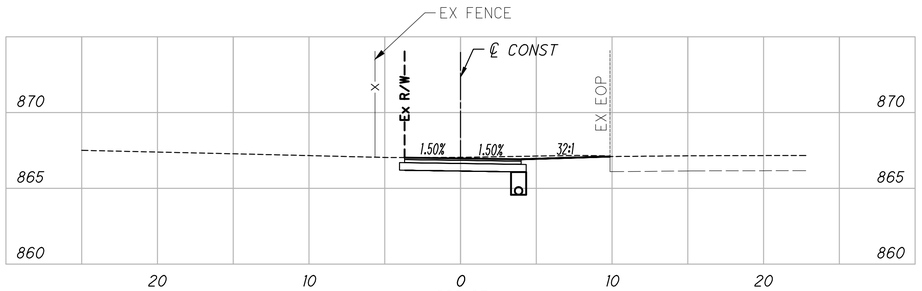
871.44

STA. 12+50.00

871.28

TOTALS CARRIED TO SHEET 13

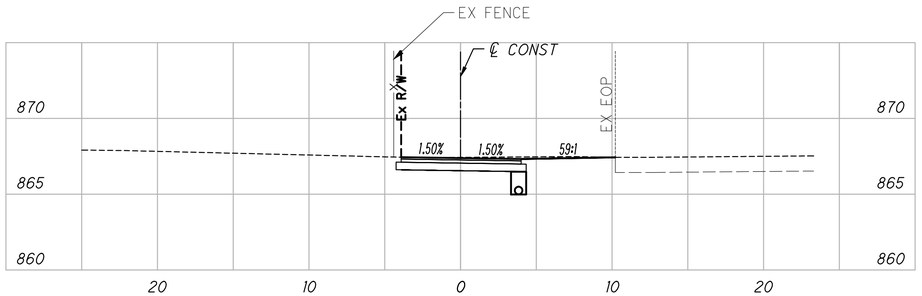
END AREA		VOLUME	
CUT	FILL	CUT	FILL
10	0		
		11	1
3	1		
		4	4
2	4		
		7	4
6	1		
		10	2
		32	11



866.97

STA. 16+00.00

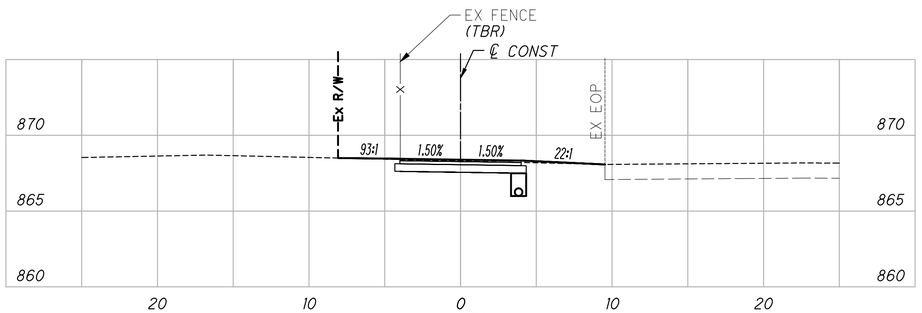
867.04



867.38

STA. 15+50.00

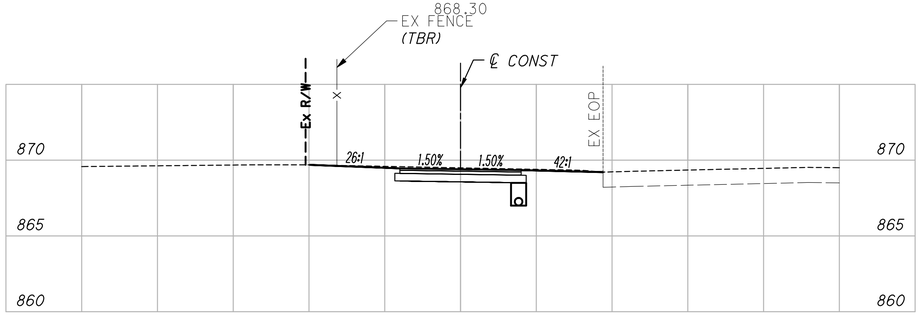
867.43



868.39

STA. 15+00.00

868.30



869.40

STA. 14+50.00

869.49

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
9	0		
		16	0
8	0		
		14	0
6	0		
		14	0
9	0		
		17	0
		61	0

CUY-SOUTH PARK SHARED USE PATH

CROSS SECTIONS

STA. 12+50 TO STA. 16+00

DESIGN AGENCY

OHM

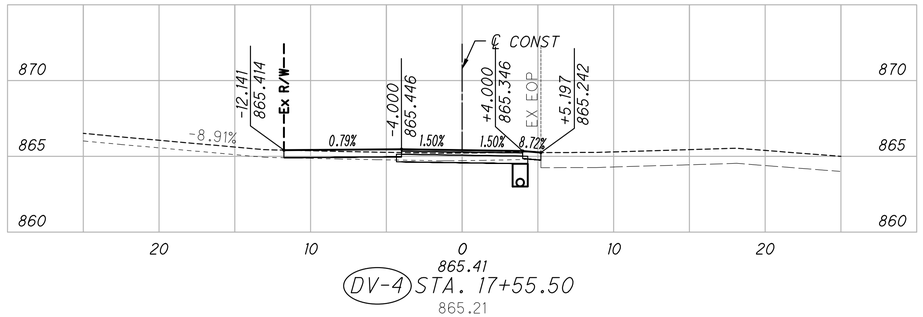
DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 31 TOTAL 47

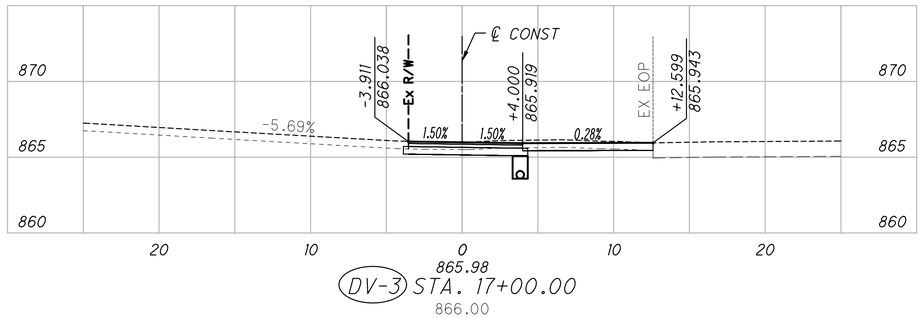
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg



865.41

DV-4 STA. 17+55.50

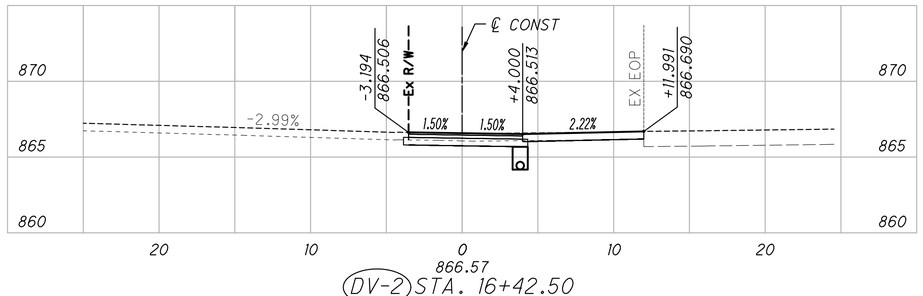
865.21



865.98

DV-3 STA. 17+00.00

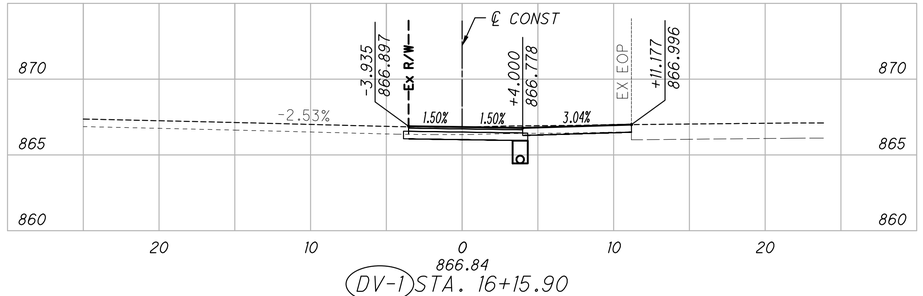
866.00



866.57

DV-2 STA. 16+42.50

866.56



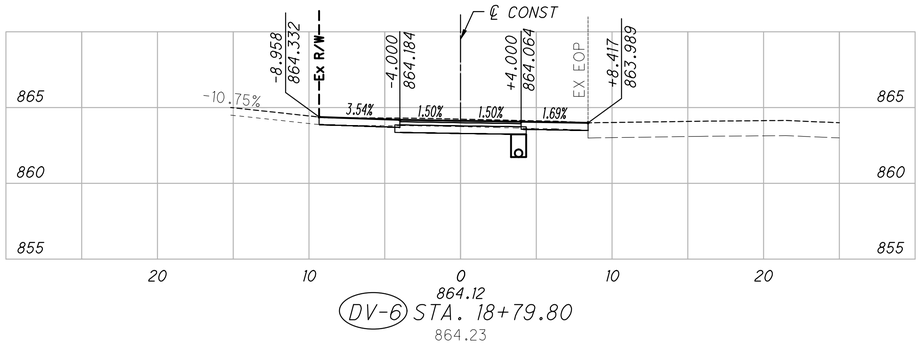
866.84

DV-1 STA. 16+15.90

866.84

TOTALS CARRIED TO SHEET 13

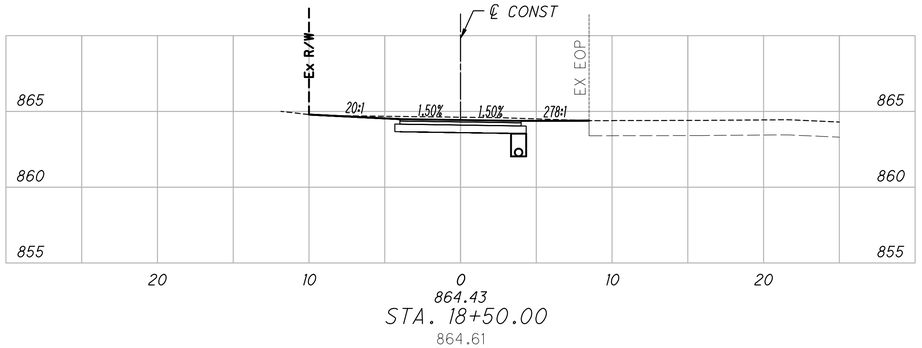
END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		12	0
12	0		
		22	0
10	0		
		10	0
10	0		
		5	0
		49	0



864.12

DV-6 STA. 18+79.80

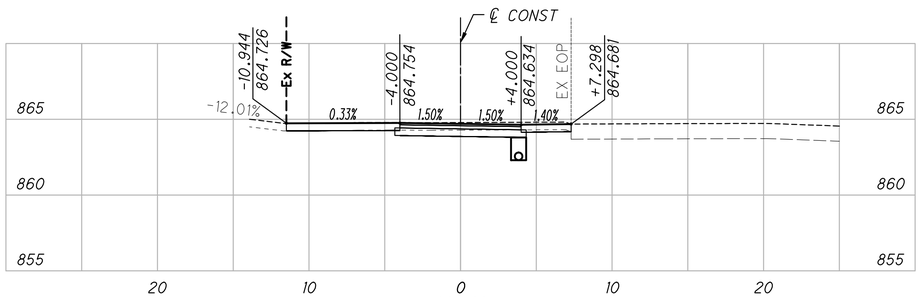
864.23



864.43

STA. 18+50.00

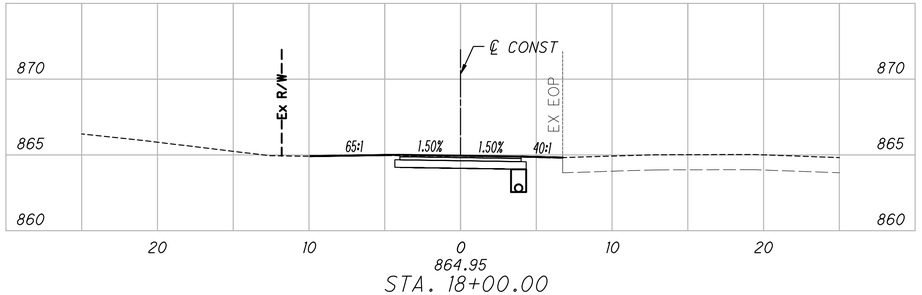
864.61



864.69

DV-5 STA. 18+24.50

864.78



864.95

STA. 18+00.00

864.91

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		5	0
9	0		
		4	0
0	0		
		3	1
7	1		
		6	1
		18	2

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg

CROSS SECTIONS

STA. 16+50 TO STA. 18+79.80

DESIGN AGENCY

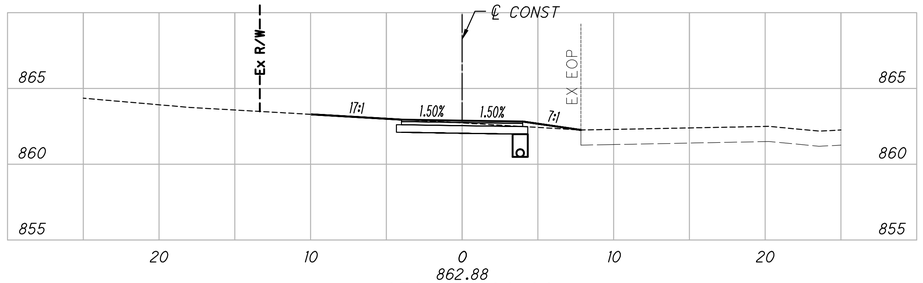
OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

SHEET 32 TOTAL 47

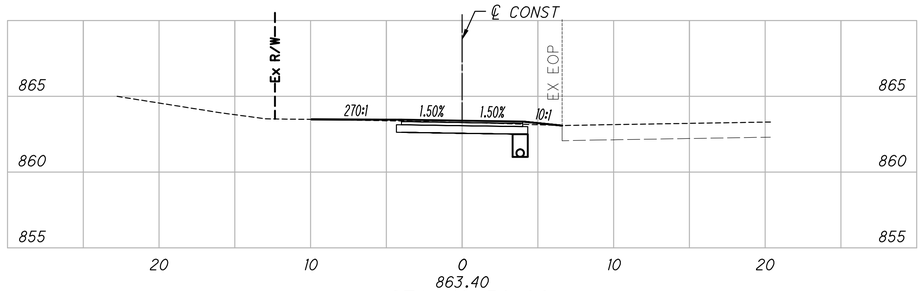


862.88

STA. 20+00.00

862.73

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	1	11	3

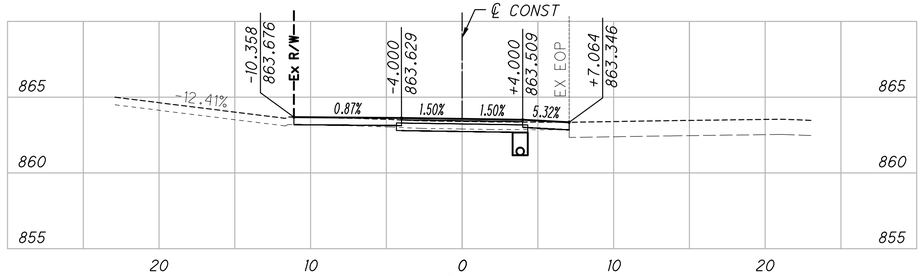


863.40

STA. 19+50.00

863.27

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	2	2	1

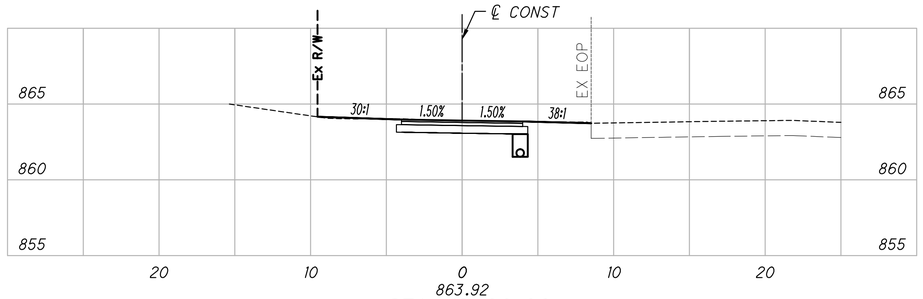


863.57

DV-7 STA. 19+33.50

863.40

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	5	1



863.92

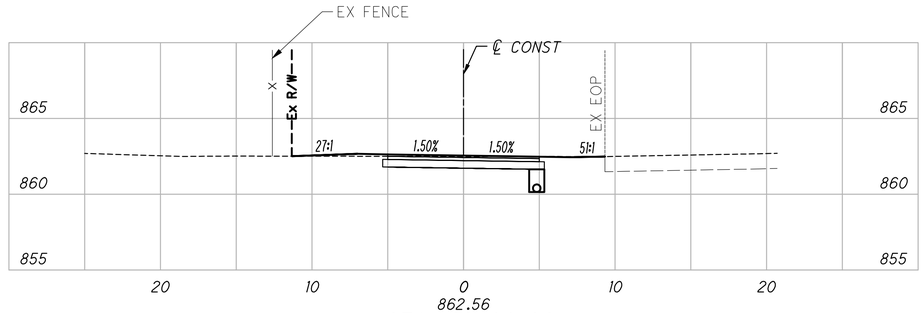
STA. 19+00.00

863.92

END AREA		VOLUME	
CUT	FILL	CUT	FILL
7	2	3	1

TOTALS CARRIED TO SHEET 13

		21	6

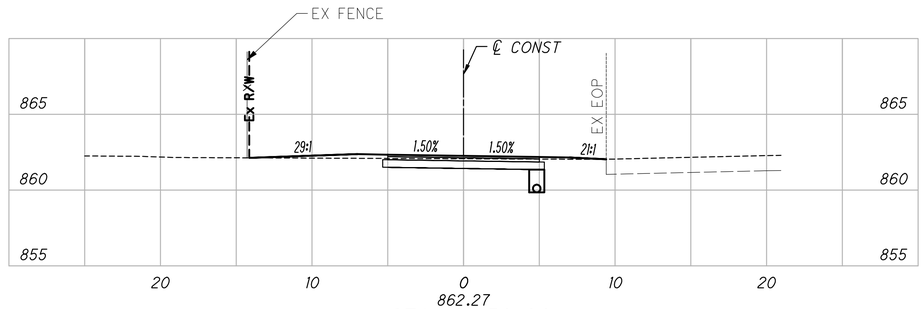


862.56

STA. 22+00.00

862.50

END AREA		VOLUME	
CUT	FILL	CUT	FILL
9	1	15	2

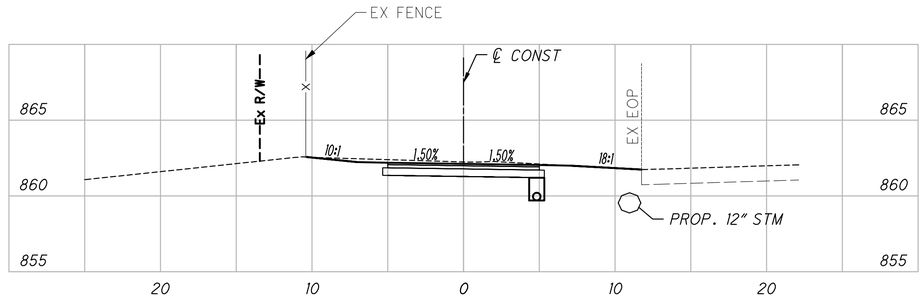


862.27

STA. 21+50.00

862.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL
7	2	17	2

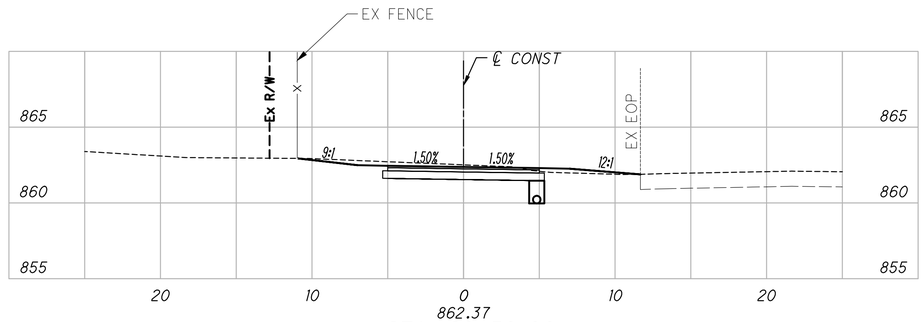


862.12

STA. 21+00.00

862.24

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	0	22	1



862.37

STA. 20+50.00

862.51

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	1	16	2

TOTALS CARRIED TO SHEET 13

		70	7

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg

CROSS SECTIONS

STA. 19+00 TO STA. 22+00

DESIGN AGENCY

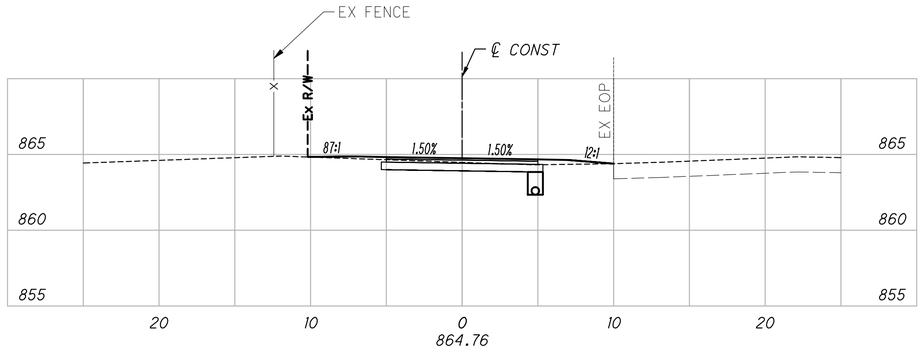
OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

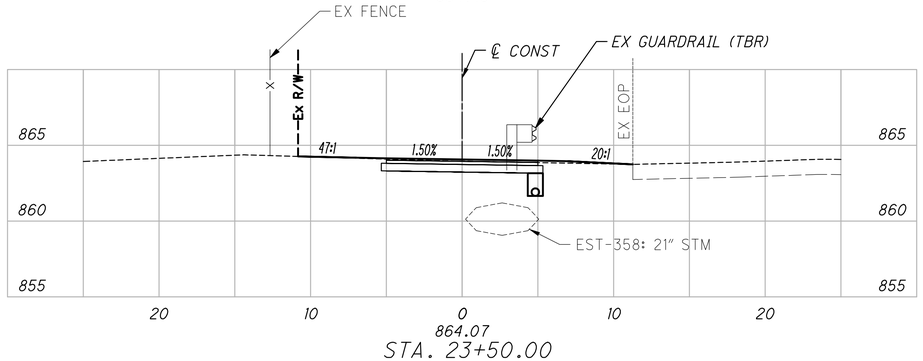
SHEET 33 TOTAL 47



864.76

STA. 24+00.00

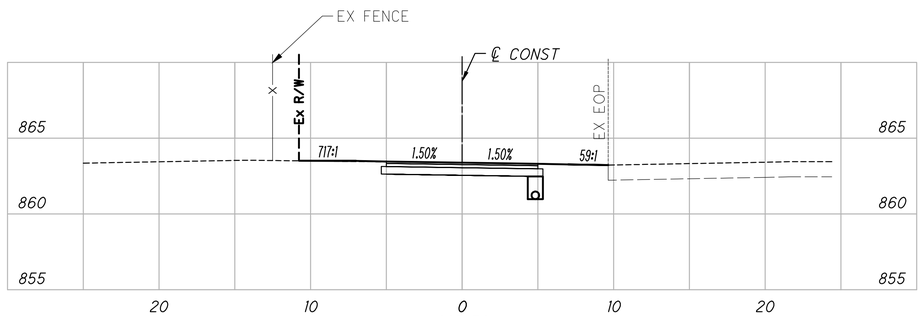
864.48



864.07

STA. 23+50.00

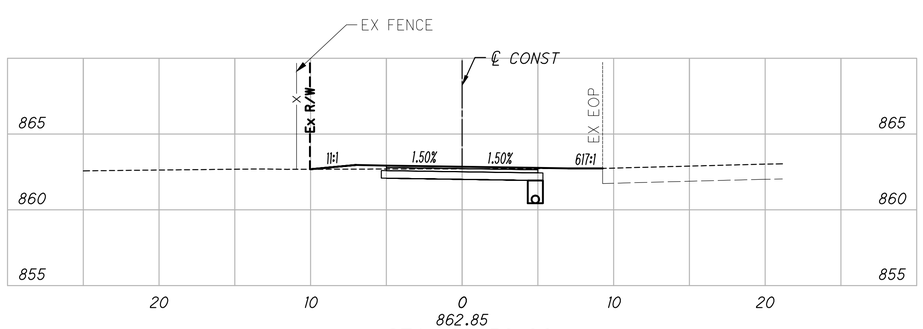
863.96



863.39

STA. 23+00.00

863.38



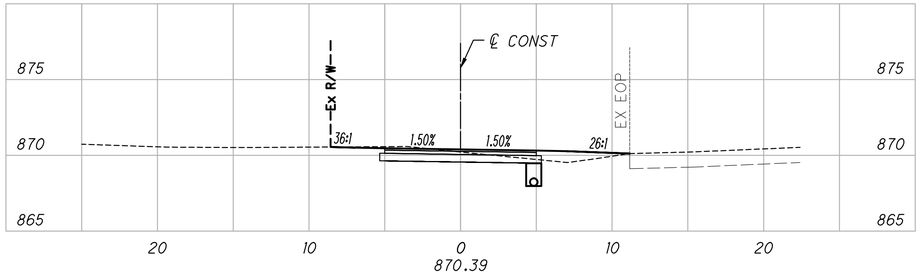
862.85

STA. 22+50.00

862.71

TOTALS CARRIED TO SHEET 13

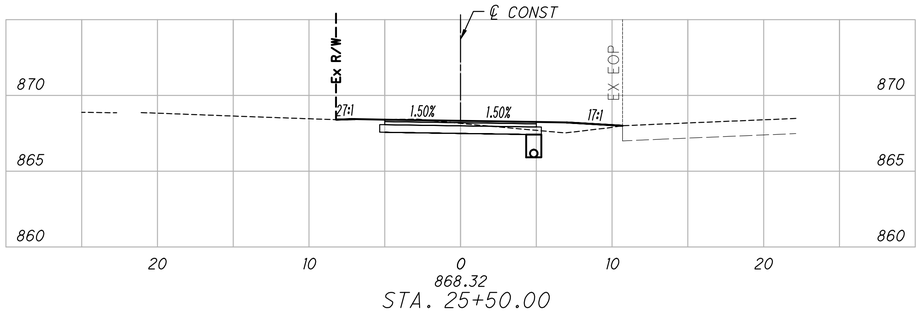
END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	2		
		13	2
8	1		
		16	1
9	0		
		15	1
8	1		
		15	1
		59	5



870.39

STA. 26+00.00

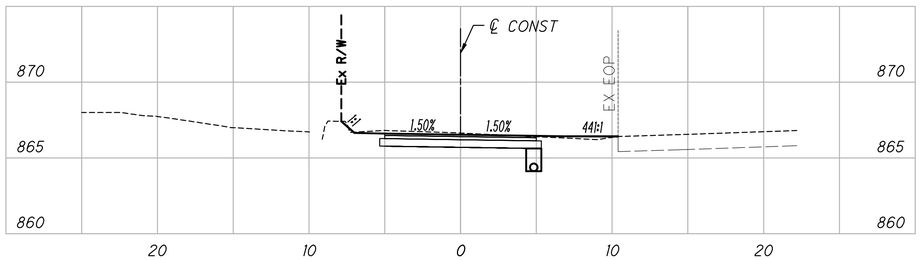
870.21



868.32

STA. 25+50.00

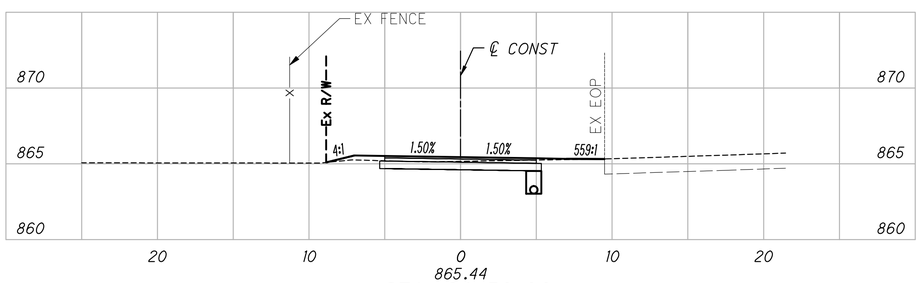
868.15



866.54

STA. 25+00.00

866.65



865.44

STA. 24+50.00

865.17

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
7	3		
		13	5
7	3		
		16	3
10	1		
		16	2
6	1		
		11	3
		56	13

CROSS SECTIONS
STA. 22+50 TO STA. 26+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg

DESIGN AGENCY

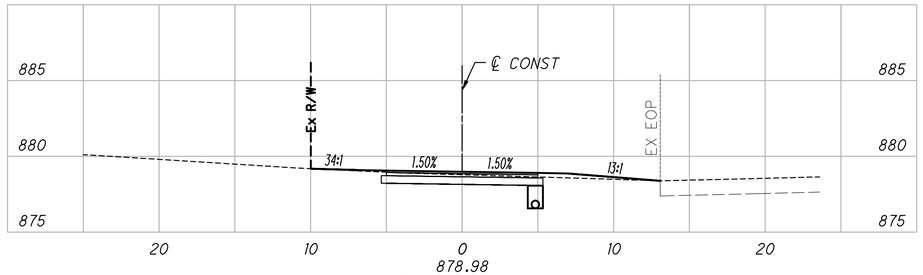
OHM

DESIGNER CB

REVIEWER JH

PROJECT ID 121603

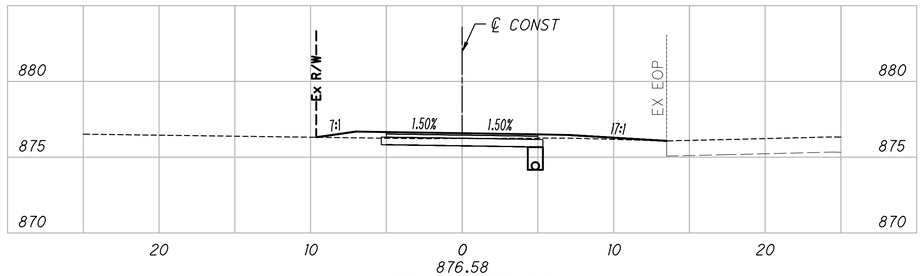
SHEET 34 TOTAL 47



878.98

STA. 28+00.00

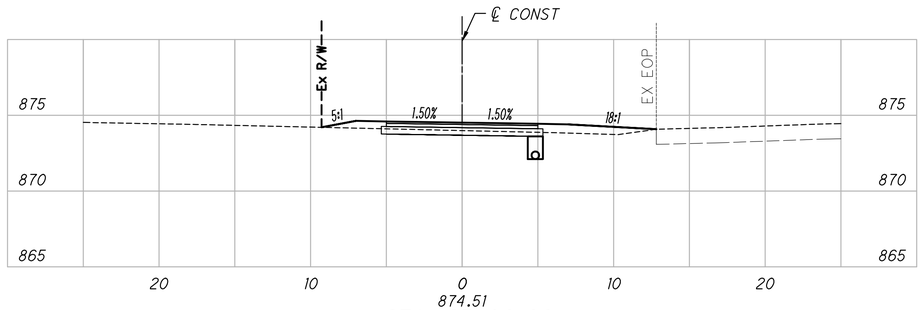
878.78



876.58

STA. 27+50.00

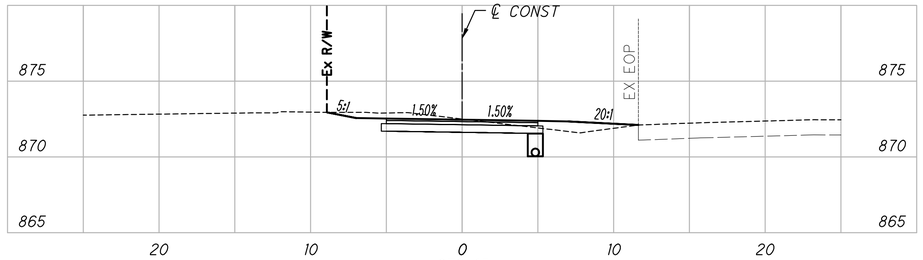
876.23



874.51

STA. 27+00.00

873.99



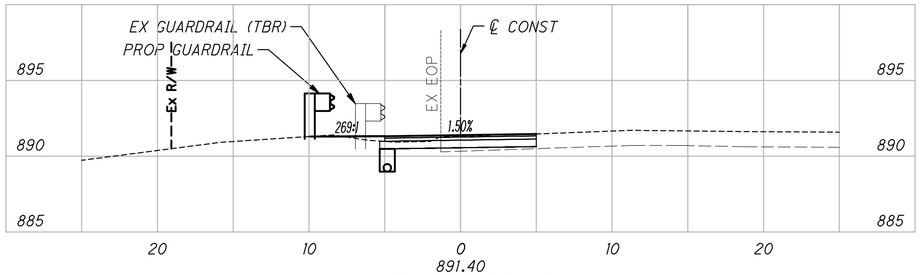
872.45

STA. 26+50.00

872.50

TOTALS CARRIED TO SHEET 13

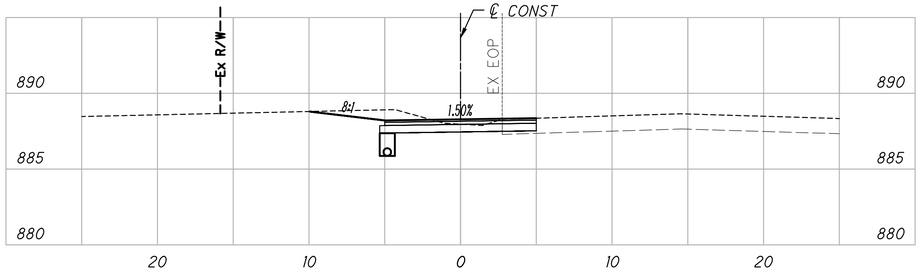
END AREA		VOLUME	
CUT	FILL	CUT	FILL
7	2		
		11	4
5	2		
		8	7
3	5		
		13	7
10	3		
		17	5
		49	23



891.40

STA. 30+00.00

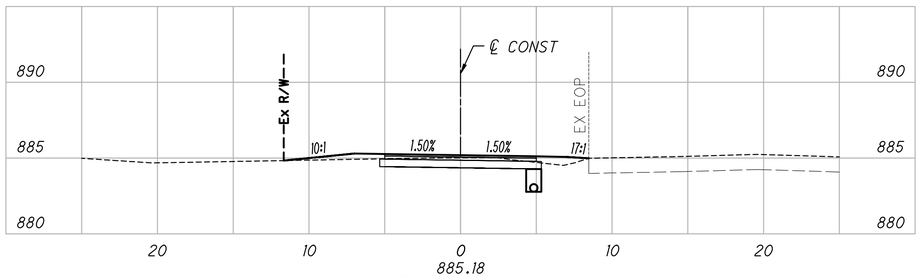
891.33



888.28

STA. 29+50.00

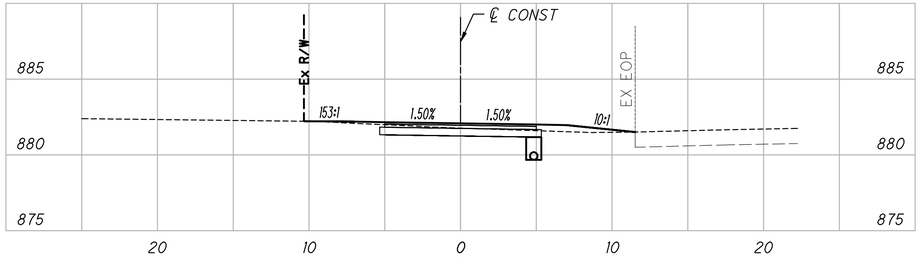
887.97



885.18

STA. 29+00.00

885.01



882.08

STA. 28+50.00

881.76

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
2	1		
		10	1
9	0		
		14	3
7	3		
		11	5
6	2		
		12	4
		47	13

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg

CROSS SECTIONS
STA. 26+50 TO STA. 30+00

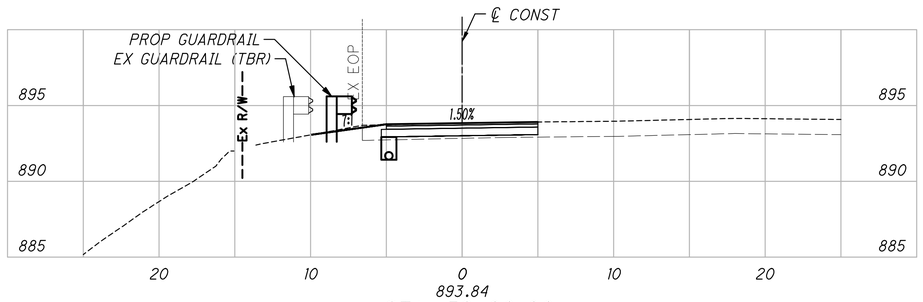
DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	35
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

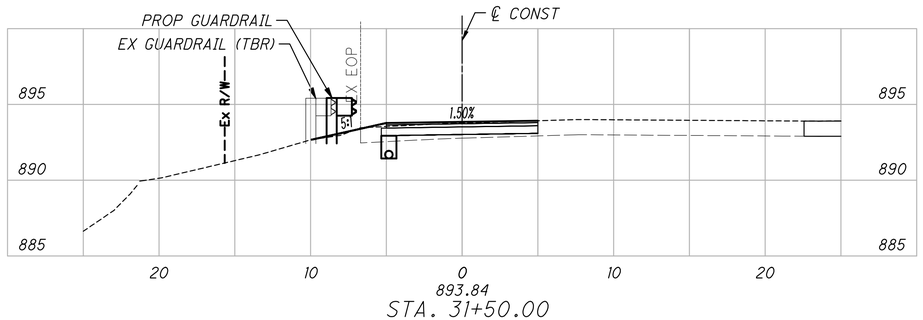
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_XS001-010.dwg



893.84

STA. 32+00.00

893.83



893.84

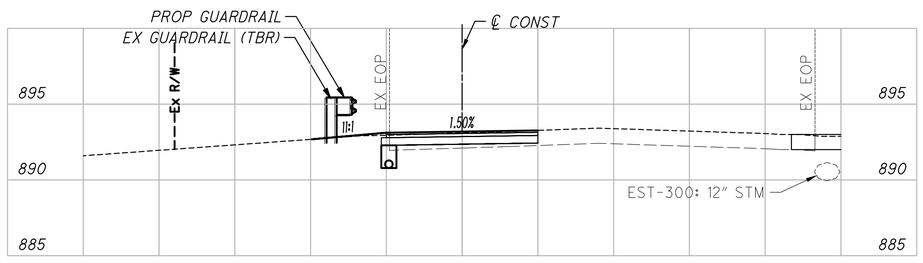
STA. 31+50.00

893.77

893.70

STA. 31+00.00

893.57



893.25

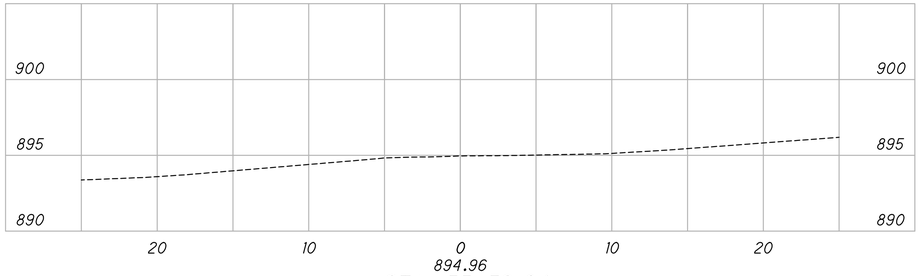
STA. 30+50.00

893.10

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	1		
		0	2
0	1		
		0	2
0	1		
		0	1
0	0		
		2	1
		2	6

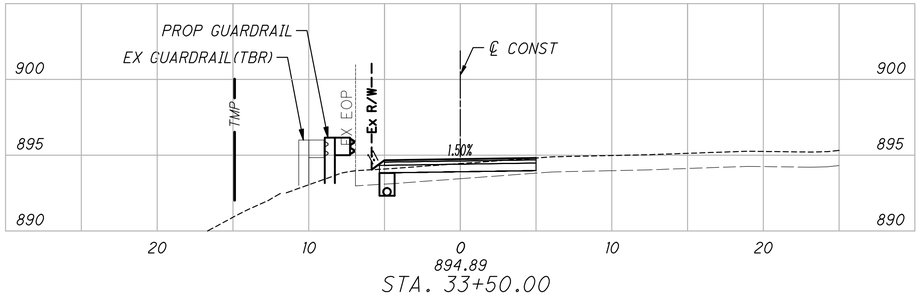
END PROJECT STA. 33+72.04



894.96

STA. 33+72.04

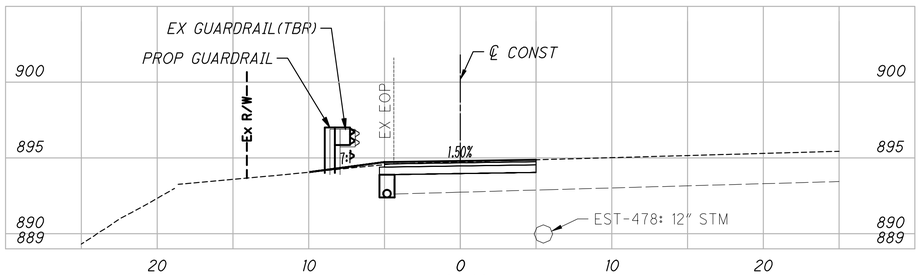
894.96



894.89

STA. 33+50.00

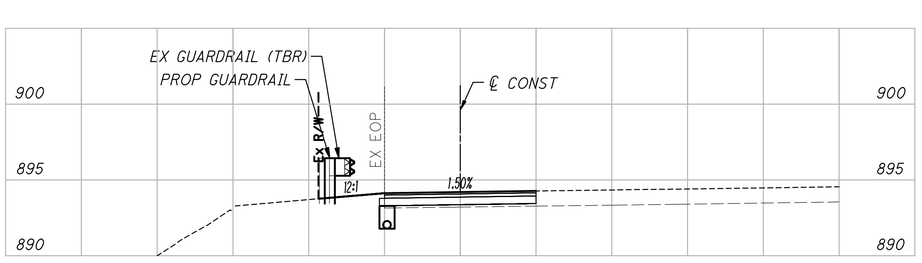
894.44



894.80

STA. 33+00.00

894.73



894.22

STA. 32+50.00

894.21

TOTALS CARRIED TO SHEET 13

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		0	0
0	1		
		1	1
1	0		
		1	0
0	0		
		1	1
		3	2

CROSS SECTIONS

STA. 30+50 TO STA. 33+72.04

DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	36
TOTAL	47

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
20-26	PLAN AND PROFILE
32-33	DRIVE PROFILES

HORIZONTAL SCALE IN FEET
0 3 5 10

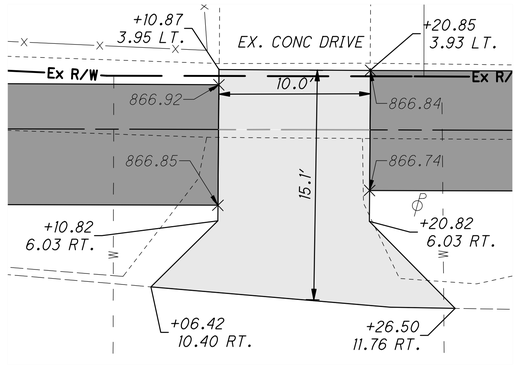
LEGEND:

ASPHALT SHARED USE PATH

CONCRETE DRIVE APRON

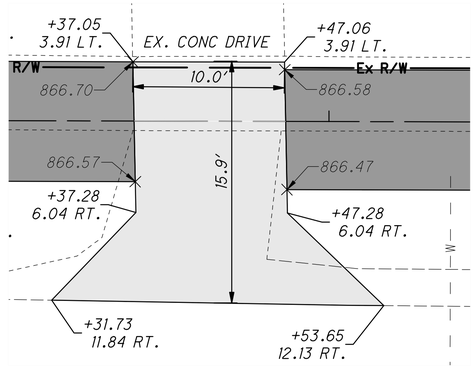
PROPOSED DRIVEWAY APRON BUILD-UP

ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS
ITEM 204 - SUBGRADE COMPACTION
ITEM 204 - PROOF ROLLING



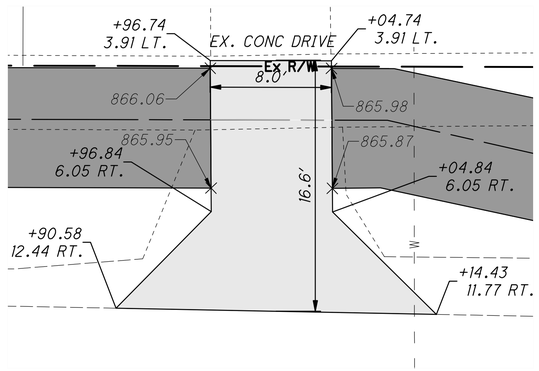
DV-1

RESIDENTIAL DRIVE STA. 16+15.90



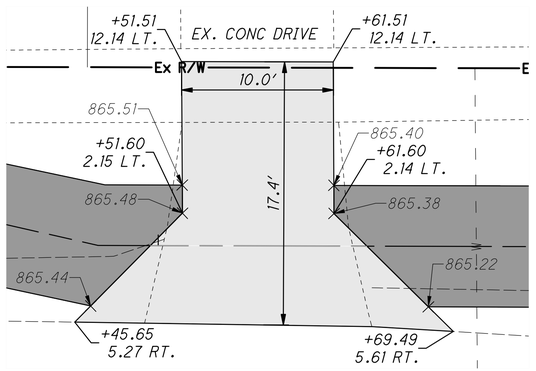
DV-2

RESIDENTIAL DRIVE STA. 16+42.50



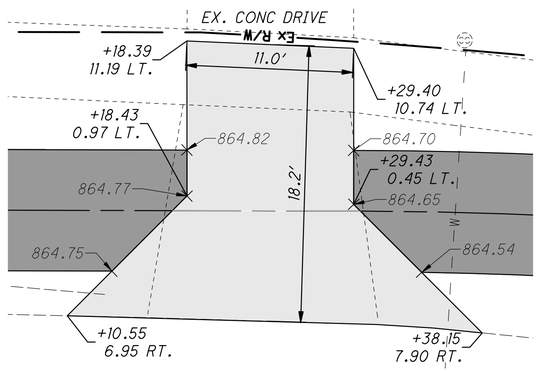
DV-3

RESIDENTIAL DRIVE STA. 17+00



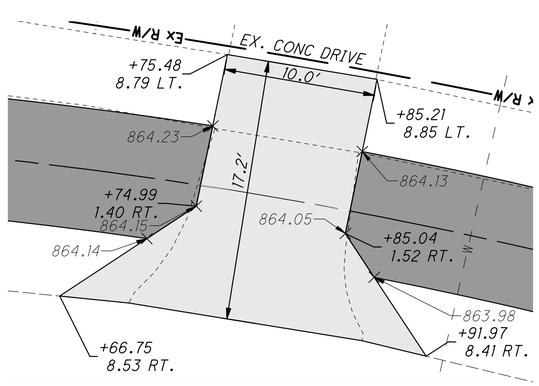
DV-4

RESIDENTIAL DRIVE STA. 17+55.50



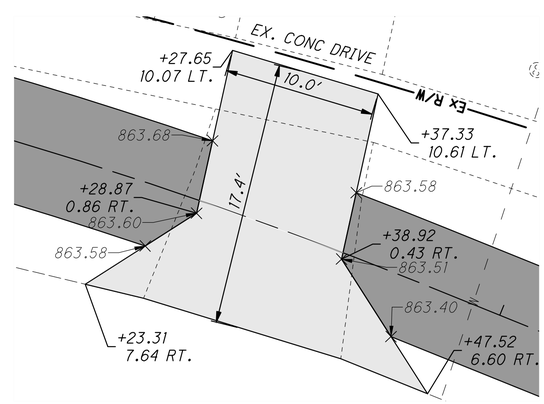
DV-5

RESIDENTIAL DRIVE STA. 18+24.50



DV-6

RESIDENTIAL DRIVE STA. 18+79.80



DV-7

RESIDENTIAL DRIVE STA. 19+33.50

CUY-SOUTH PARK SHARED USE PATH

DRIVEWAY DETAILS

DESIGN AGENCY

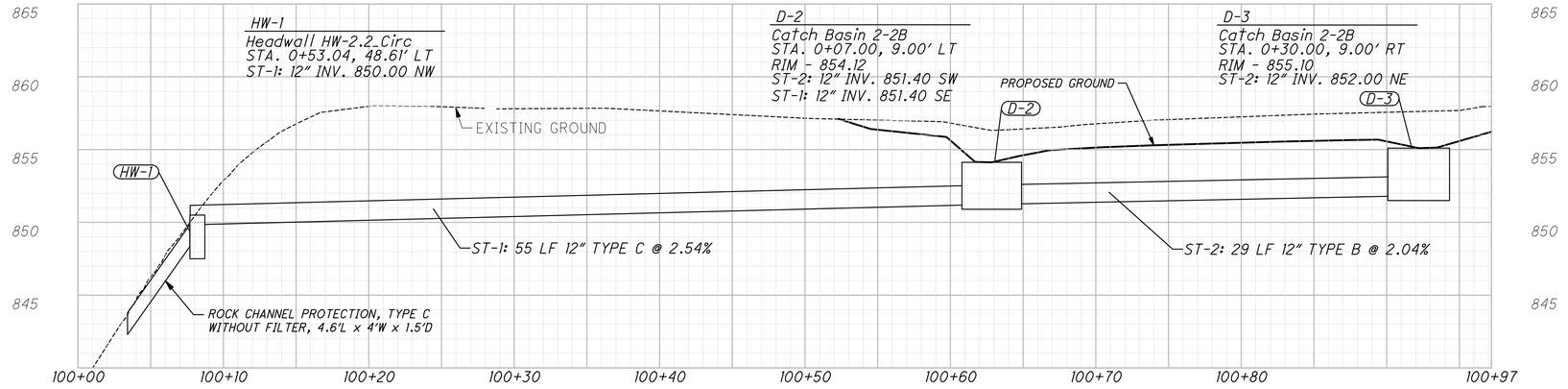
OHM

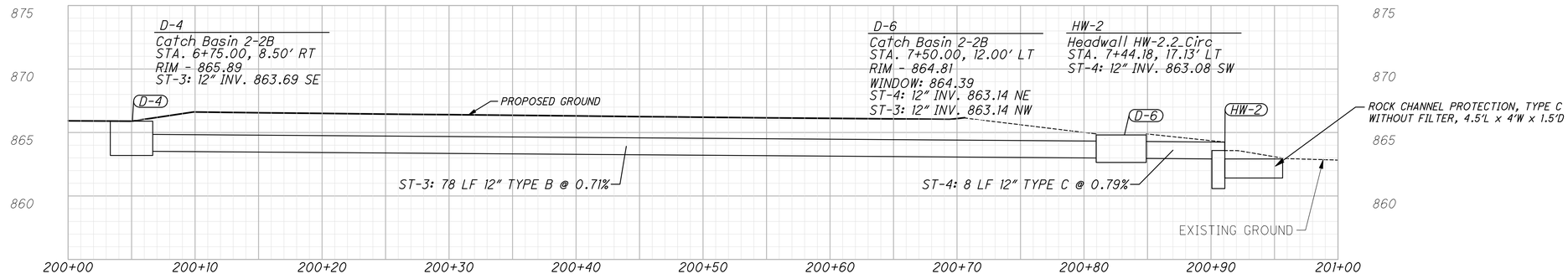
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	37
TOTAL	47

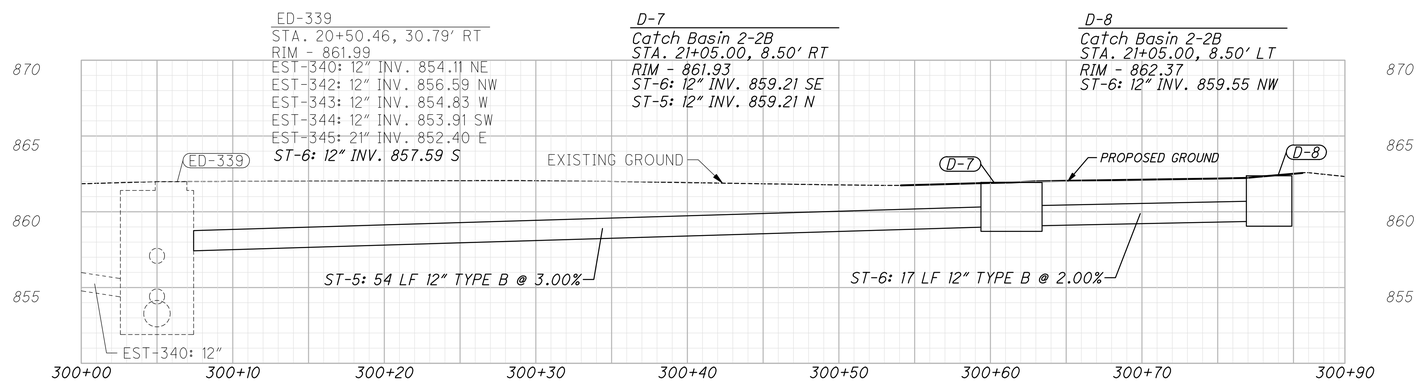
P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_DD001 DRIVEWAY DETAILS.dwg

CROSS REFERENCES	
SHT NO.	DESCRIPTION
20-26	PLAN AND PROFILE

NOT USED: D-1, D-5







DRAINAGE DETAILS

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Drainage\Sheets\121603_DF001.dwg

DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	38
TOTAL	47

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
20	PLAN AND PROFILE

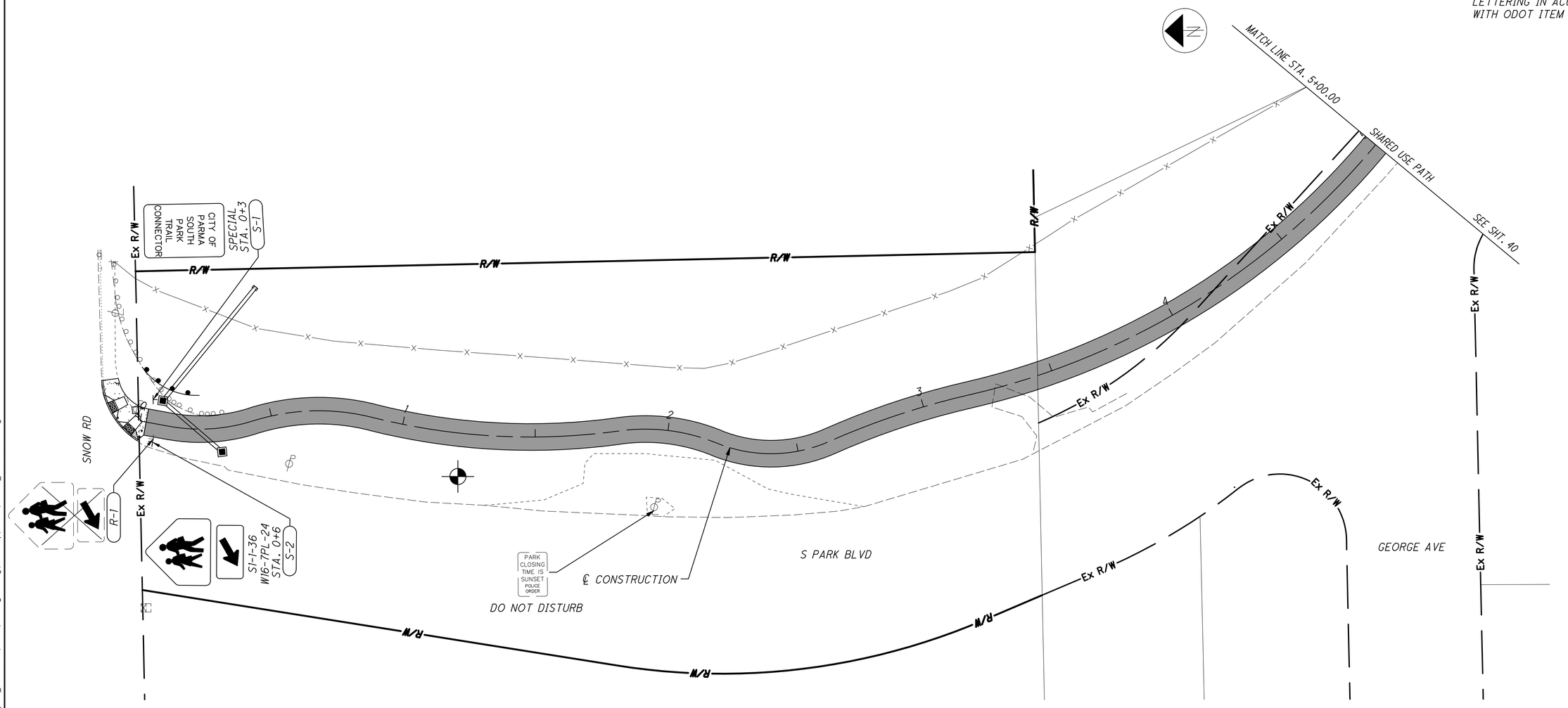
HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- R -## SIGN TO BE REMOVED
- EL-## EDGE LINE, WHITE
- S-## PROPOSED SIGN

CITY OF PARMA SOUTH PARK TRAIL CONNECTOR
SPECIAL

THIS SIGN SHALL BE 12" X 18" WHITE SIGN WITH BLACK LETTERING IN ACCORDANCE WITH ODOT ITEM #630.



SIGNING AND PAVEMENT MARKING
STA. 00+00 TO STA. 5+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GM001-005.dwg

DESIGN AGENCY
OHM

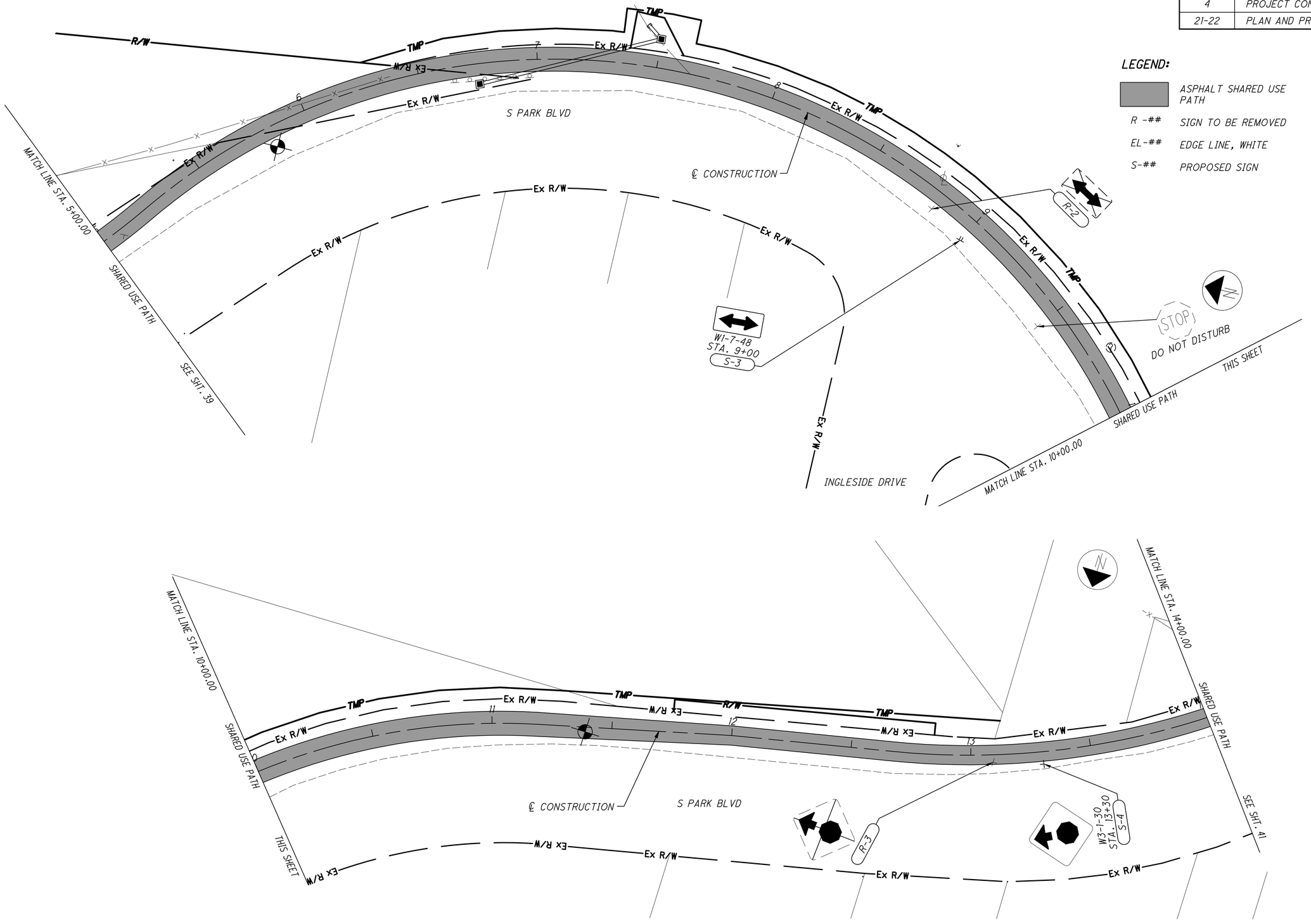
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	39
TOTAL	47

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
21-22	PLAN AND PROFILE

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- R -## SIGN TO BE REMOVED
- EL-## EDGE LINE, WHITE
- S-## PROPOSED SIGN



SIGNING AND PAVEMENT MARKING
STA. 5+00 TO STA. 14+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GW001-005.dwg

DESIGN AGENCY
OHM

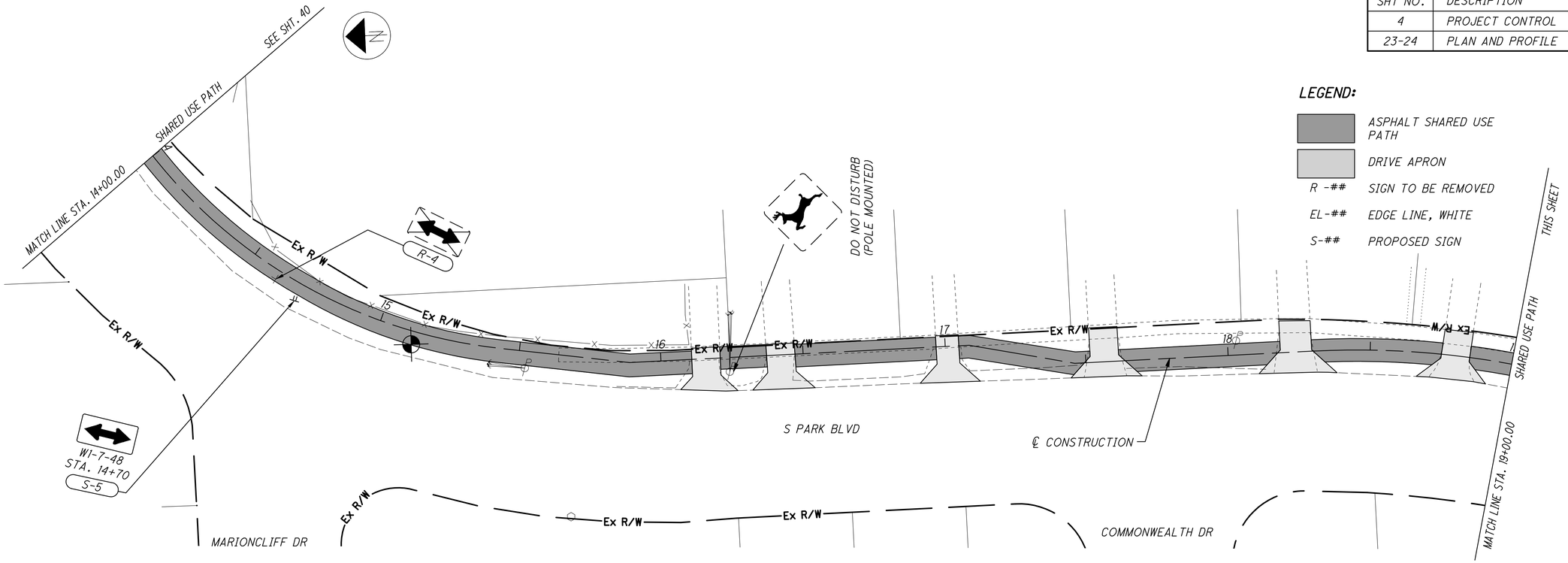
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	40
TOTAL	47

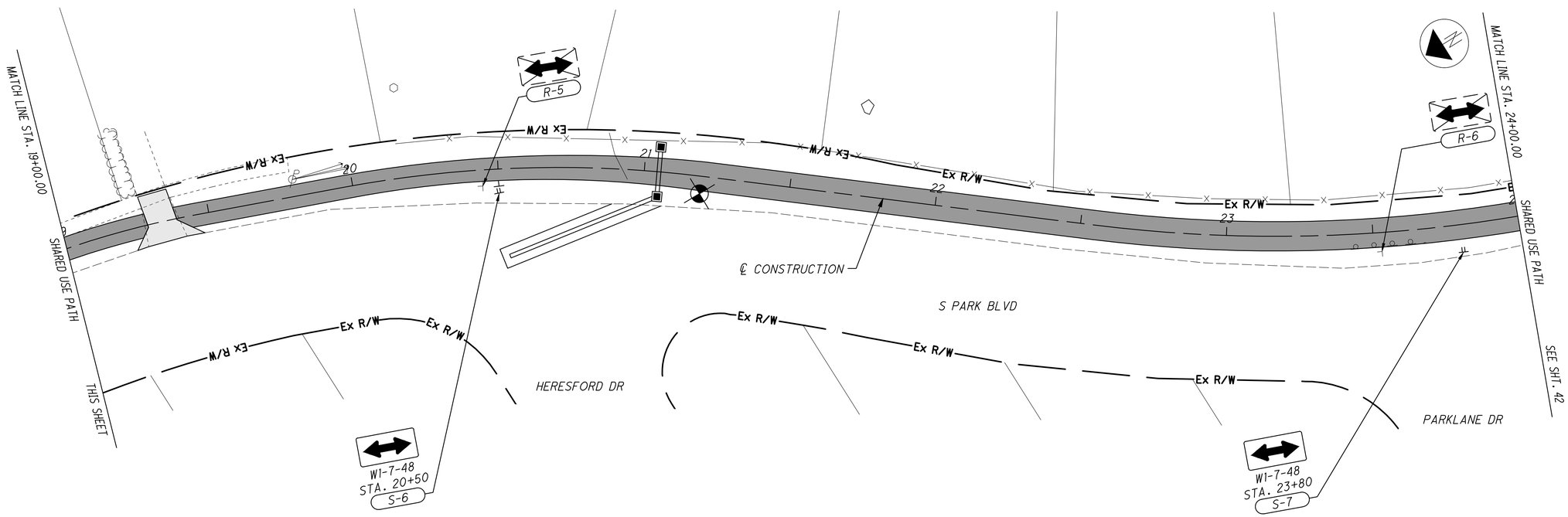
CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
23-24	PLAN AND PROFILE

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- DRIVE APRON
- R -## SIGN TO BE REMOVED
- EL-## EDGE LINE, WHITE
- S-## PROPOSED SIGN





SIGNING AND PAVEMENT MARKING
STA. 14+00 TO STA. 24+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\80472300I0_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GM001-005.dwg

DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	41
TOTAL	47

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
23-24	PLAN AND PLOFILE

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND:

- ASPHALT SHARED USE PATH
- PROPOSED ROADWAY
- DELINEATOR
- R -## SIGN TO BE REMOVED
- EL-## EDGE LINE, WHITE
- S-## PROPOSED SIGN

CITY OF PARMA SOUTH PARK TRAIL CONNECTOR
SPECIAL

THIS SIGN SHALL BE 12" X 18" WHITE SIGN WITH BLACK LETTERING IN ACCORDANCE WITH ODOT ITEM #630.

SEE SHT. 41
THIS SHEET
MATCH LINE STA. 24+00.00
MATCH LINE STA. 28+00.00
MATCH LINE STA. 28+00.00
THIS SHEET
SHARED USE PATH
SHARED USE PATH
SHARED USE PATH
Ex R/W
S PARK BLVD
MAPLECREST AVE
WALES AVE
WELLINGTON AVE
℄ CONSTRUCTION
NO DUMPING POLICE ORDER
R-7
R-8
R-9
R-10
R-11
R-12
R-13
R-14
R-15
R-16
W1-5-30 STA. 24+80 S-8
W1-7-48 STA. 27+05 S-9
W1-7-48 STA. 30+27 S-11
W7-5-18 STA. 31+00 S-12
R2-1-24 STA. 28+55 S-10
OM4-1-18 STA. 33+58 S-13
SPECIAL STA. 33+59 S-14
OM4-1-18 STA. 33+62 S-15
OM4-1-18 STA. 33+65 S-16
EL-1
ITEM 620 - DELINEATOR, POST GROUND MOUNTED (WHITE) SPACED AT 20' C/C

SIGNING AND PAVEMENT MARKING
STA. 24+00 TO STA. 33+80

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Roadway\Sheets\230010_GM001-005.dwg

DESIGN AGENCY
OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	42
TOTAL	47

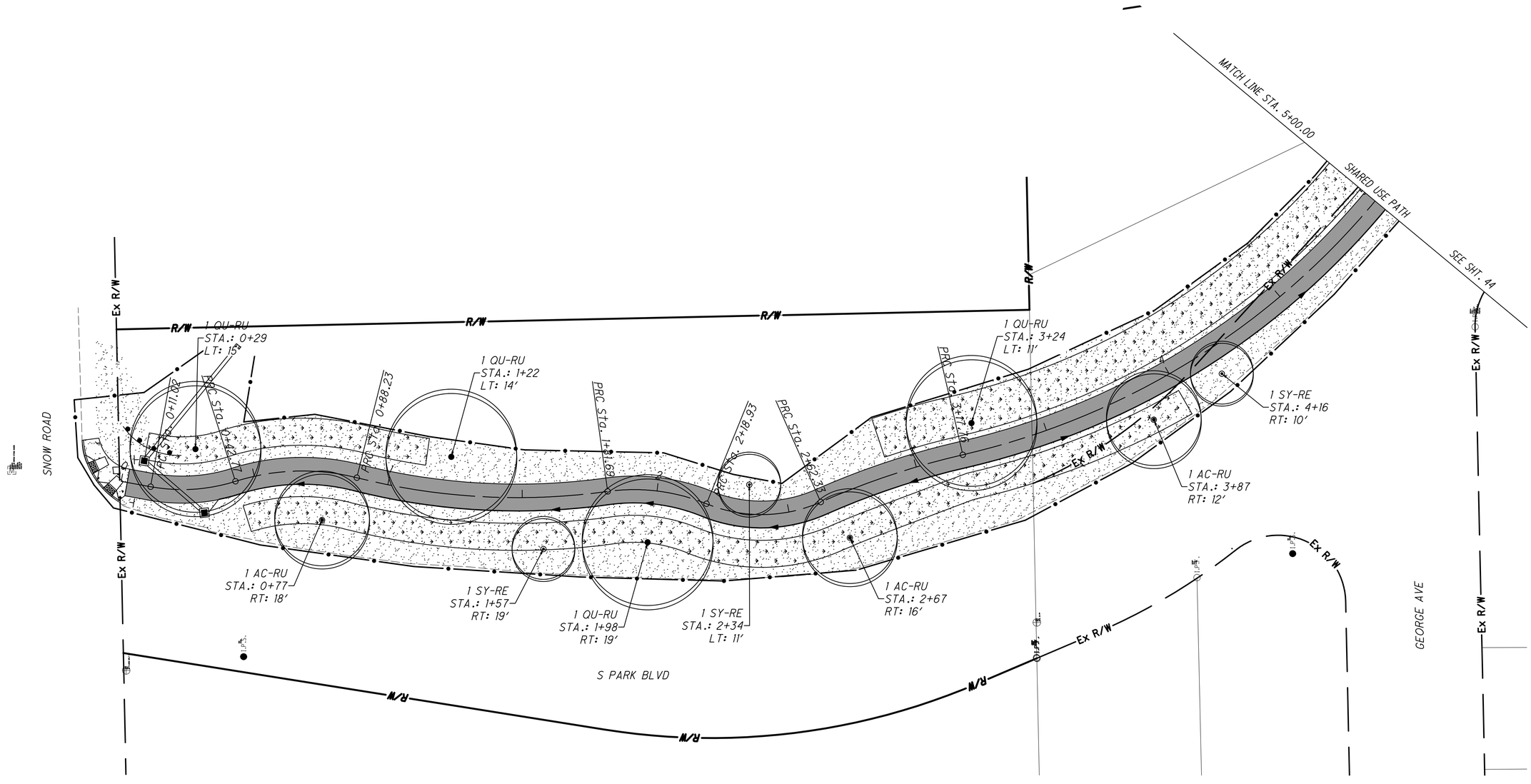
LEGEND:

ITEM 659 - SEEDING & MULCHING, AS PER PLAN

ITEM 661 - DECIDUOUS SHADE TREE

PLANT LIST - THIS SHEET ONLY					
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS
ITEM 661 - DECIDUOUS TREE, 1.5" CALIPER					
3	AC-RU	ACER RUBRUM 'AUTUMN FANTASY'	'AUTUMN FANTASY' MAPLE	1.5" CAL.	B & B
4	QU-RU	QUERCUS RUBRA	RED OAK	1.5" CAL.	B & B
3	SY-RE	SYRINGA RETICULATA 'IVORY SILK'	'IVORY SILK' TREE LILAC	1.5" CAL.	B & B

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
20	PLAN AND PROFILE



HORIZONTAL SCALE IN FEET
0 10 20 40

LANDSCAPE PLAN
STA. 00+00 TO STA. 5+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Landscaping\Sheets\230010_Bl.dwg

DESIGN AGENCY
OHM

DESIGNER CB
REVIEWER JH
PROJECT ID 121603
SHEET 43 TOTAL 47

LEGEND:

ITEM 659 - SEEDING & MULCHING, AS PER PLAN

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
21-22	PLAN AND PROFILE

HORIZONTAL SCALE IN FEET
0 10 20 40

LANDSCAPE PLAN
STA. 5+00 TO STA. 14+00

S PARK BLVD

MATCH LINE STA. 5+00.00

SHARED USE PATH

SEE SHT. 43

PRC STA 5+21.20

MATCH LINE STA. 10+00.00

SHARED USE PATH

THIS SHEET

INGLESIDE DR

MATCH LINE STA. 10+00.00

SHARED USE PATH

PI Sta. 11+18.55

PI Sta. 12+00.00

PI Sta. 12+67.73

MATCH LINE STA. 14+00.00

SHARED USE PATH

SEE SHT. 45

THIS SHEET

Ex R/W

TMP

DESIGN AGENCY

OHM

DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	44
TOTAL	47

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Landscaping\Sheets\230010_BL.dwg

LEGEND:

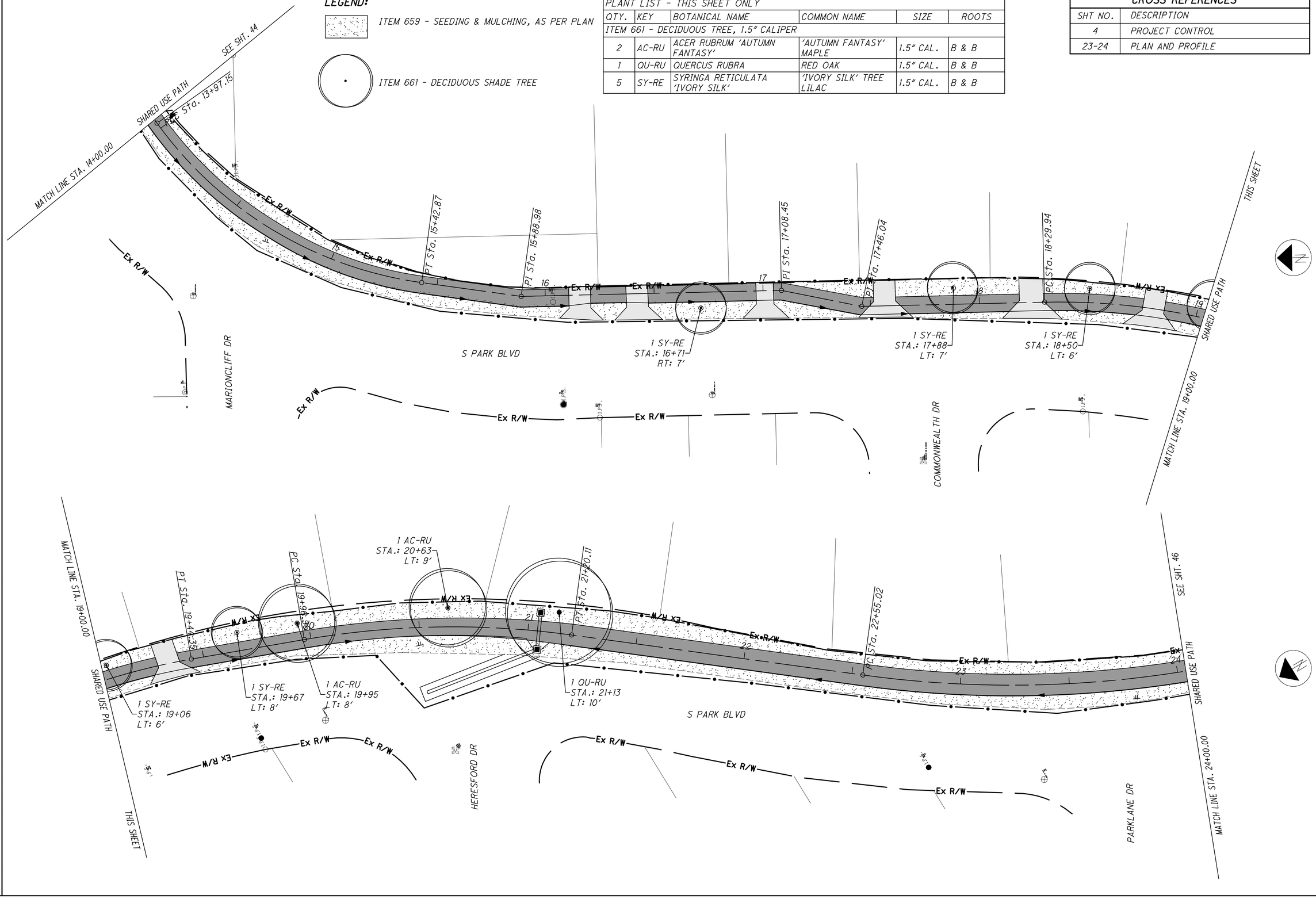
ITEM 659 - SEEDING & MULCHING, AS PER PLAN

ITEM 661 - DECIDUOUS SHADE TREE

PLANT LIST - THIS SHEET ONLY					
QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS
ITEM 661 - DECIDUOUS TREE, 1.5" CALIPER					
2	AC-RU	ACER RUBRUM 'AUTUMN FANTASY'	'AUTUMN FANTASY' MAPLE	1.5" CAL.	B & B
1	QU-RU	QUERCUS RUBRA	RED OAK	1.5" CAL.	B & B
5	SY-RE	SYRINGA RETICULATA 'IVORY SILK'	'IVORY SILK' TREE LILAC	1.5" CAL.	B & B

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
23-24	PLAN AND PROFILE

HORIZONTAL SCALE IN FEET
0 10 20 40



LANDSCAPE PLAN
STA. 14+00 TO STA. 24+00

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Landscaping\Sheets\230010_BL.dwg

DESIGN AGENCY
OHM

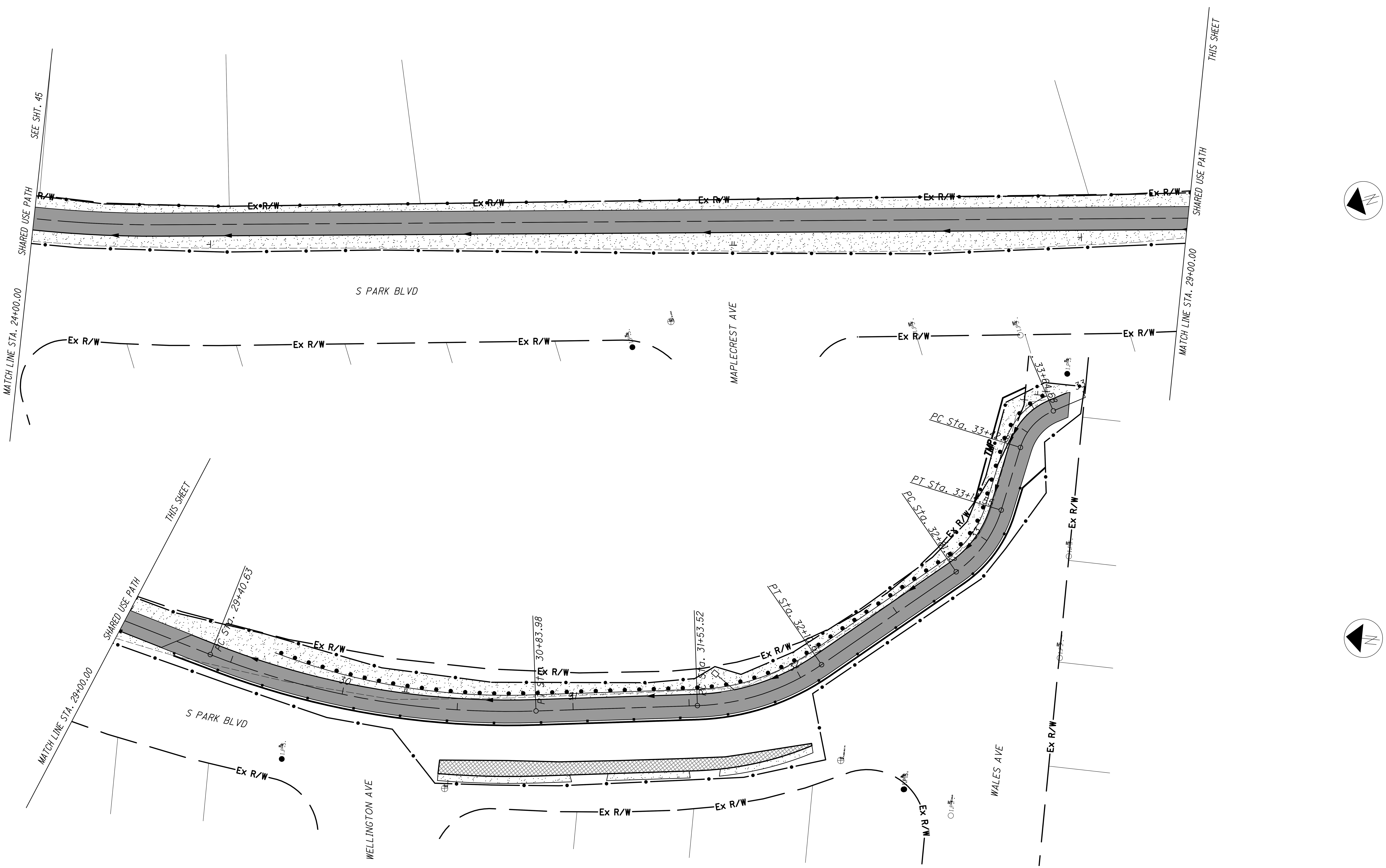
DESIGNER	CB
REVIEWER	JH
PROJECT ID	121603
SHEET	45
TOTAL	47

LEGEND:

ITEM 659 - SEEDING & MULCHING, AS PER PLAN

CROSS REFERENCES	
SHT NO.	DESCRIPTION
4	PROJECT CONTROL
25-26	PLAN AND PROFILE

HORIZONTAL SCALE IN FEET 0 10 20 40



LANDSCAPE PLAN
STA. 24+00 TO STA. 33+80

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Landscaping\Sheets\230010_BL.dwg

DESIGN AGENCY
OHM

DESIGNER CB
REVIEWER JH
PROJECT ID 121603
SHEET 46 TOTAL 47

ITEM 661 - MULCH, AS PER PLAN

THIS ITEM SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 661 IN THE CMS, EXCEPT AS MODIFIED HEREIN. PROVIDE ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS CONSISTING OF:

1. 100% DOUBLE SHREDDED HARDWOOD BARK MULCH WITH NO FILLERS OR COMPOST.
2. 3 INCHES MAXIMUM, 1/2" MINIMUM SIZE RANGE.
3. NATURAL COLOR (NO DYE'S).

COST FOR ALL WORK, LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS ITEM.

THE FOLLOWING QUANTITIES HAVE BEEN CALCULATED AND CARRIED TO THE GENERAL SUMMARY:

ITEM 661 - MULCH, AS PER PLAN 10 CY

ITEM 662 - LANDSCAPE WATERING, AS PER PLAN

THIS ITEM SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 661 IN THE CMS.

THIS WORK CONSISTS OF FURNISHING, DELIVERING, APPLYING, MEASURING, AND SCHEDULING A SUFFICIENT AMOUNT OF WATER NECESSARY TO KEEP EACH PLANT INCLUDED IN ITEM 661 IN A HEALTHY GROWING CONDITION THROUGHOUT THE PERIOD OF ESTABLISHMENT AND THE CONTRACT.

FURNISH THE WATER USED IN WATERING LANDSCAPE PLANTS. THOROUGHLY WATER ALL PLANT MATERIAL AT THE TIME OF PLANTING REGARDLESS OF SOIL MOISTURE CONTENT. CONTINUE TO WATER THROUGHOUT THE PERIOD OF ESTABLISHMENT.

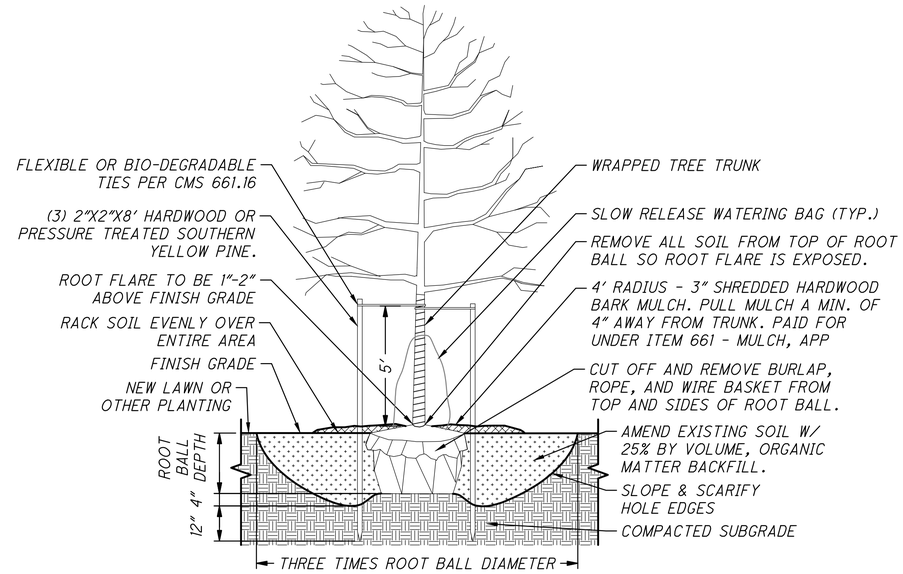
SATURATE THE ROOT ZONE AND MULCHED AREA OF EACH PLANT WITHOUT CAUSING RUN-OFF ACCORDING TO THE TABLE BELOW. DURING FALL PLANTING, CONTINUE TO WATER UNTIL THE GROUND IS FROZEN AND RECOMMENCE WATERING AFTER THE SPRING THAW. FURNISH A RAIN GAUGE APPROVED BY THE ENGINEER.

THE CONTRACTOR WILL MEASURE LANDSCAPE WATERING BY THE NUMBER OF GALLONS DELIVERED TO PLANTS FROM APPROVED METERED TANKS OR INDIVIDUALLY MEASURED CONTAINERS AS FOLLOWS:

WATERING TABLE	
PLANT DESCRIPTION	GALLONS
TREES:	
1 TO 3 INCHES, CALIPER	25

THE FOLLOWING QUANTITIES HAVE BEEN CALCULATED AND CARRIED TO THE GENERAL SUMMARY:

ITEM 662 - LANDSCAPE WATERING, AS PER PLAN 5400 GALLON



NOTES:

1. SET ALL PLANTS SO THAT THEY BEAR THE SAME RELATION TO THE FINISH GRADE AS THEY DID IN THEIR PRIOR LOCATION.
2. THOROUGHLY TILL AREA EQUAL TO 3 TIMES THE DIAMETER OF THE ROOT BALL AND TO THE DEPTH OF THE ROOT BALL. PRIOR TO TILLING, REMOVE ANY EXISTING LAWN OR VEGETATION.
3. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1).
4. HANDLE THE TREE BY ROOT BALL ONLY. DO NOT LIFT OR LEVERAGE TREE BY TREE TRUNK.
5. BACKFILL AROUND TREE WITH TILLED SOIL AND "WATER IN" BACKFILL IN 6" LIFTS TO SETTLE IN BACKFILL. INSTALL BACKFILL 1" HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
6. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY, AND SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS.
7. REMOVE STAKES AND ARBOR TIES AFTER ONE YEAR, UNLESS DIRECTED OTHERWISE.

ITEM 661 - DECIDUOUS TREE
NOT TO SCALE

CUY-SOUTH PARK SHARED USE PATH

P:\8000_8100\8047230010_South_Park_Trail_Connector\ODOT\400-Engineering\Landscaping\Sheets\230010_BL.dwg

LANDSCAPE DETAILS

DESIGN AGENCY
OHM

DESIGNER CB
REVIEWER JH
PROJECT ID 121603
SHEET 47 TOTAL 47