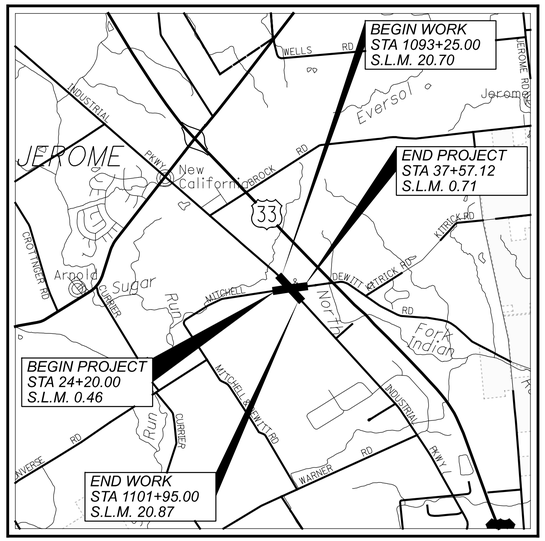
UNION COUNTY
ENGINEER'S OFFICE

INDUSTRIAL PARKWAY & MITCHELL-DEWITT ROAD INTERSECTION IMPROVEMENTS

JEROME TOWNSHIP

UNION COUNTY



LOCATION MAP

LATITUDE: N 40°08'32" LONGITUDE: W 83°12'56"

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION - INDUSTRIAL PARKWAY

CURRENT ADT (2023)	*8608*
DESIGN YEAR ADT (2043)	*11319*
DESIGN HOURLY VOLUME (2043)	*1132*
DIRECTIONAL DISTRIBUTION	*51%*
TRUCKS (24 HOUR B&C)	*7%*
DESIGN SPEED	*50 MPH*
LEGAL SPEED	*50 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL COLLECTOR	
NHS PROJECT	*NO*

DESIGN DESIGNATION - MITCHELL DEWITT RD.

CURRENT ADT (2023)	*3584*
DESIGN YEAR ADT (2043)	*4713*
DESIGN HOURLY VOLUME (2043)	*471*
DIRECTIONAL DISTRIBUTION	*54%*
TRUCKS (24 HOUR B&C)	*3%*
DESIGN SPEED	*50 MPH*
LEGAL SPEED	*50 MPH*
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL COLLECTOR	
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:

AMERICAN STRUCTUREPOINT INC.
2550 CORPORATE EXCHANGE DR, STE 300
COLUMBUS, OH 43231
TEL 614.901.2235 FAX 614.901.2236
www.structurepoint.com

ENGINEER'S SEAL:

STATE OF OHIO
LUKE STUTLER
PE.86344
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Luke Stutler
DATE: 6/23/2023

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STANDARD CONSTRUCTION DRAWINGS

BP-2.2	*1/15/21*	*HL-10.11*	*7/15/22*	*MT-97.11*	*1/20/17*	*TC-41.20*	*10/18/13*		*800*	*SEE PROPOSAL*	
BP-2.5	*1/21/22*	*HL-10.12*	*1/20/23*	*MT-99.20*	*4/19/19*	*TC-41.30*	*10/18/13*		*813*	*10/19/18*	
BP-3.1	*1/21/22*	*HL-10.13*	*1/20/23*	*MT-101.60*	*1/17/20*	*TC-41.40*	*10/18/13*		*825*	*1/17/20*	
BP-3.2	*1/18/19*	*HL-20.11*	*10/21/22*	*MT-101.70*	*1/17/20*	*TC-42.20*	*10/18/13*		*832*	*7/15/22*	
BP-4.1	*7/19/13*	*HL-30.11*	*1/15/21*	*MT-101.75*	*1/17/20*	*TC-52.10*	*10/18/13*		*902*	*7/19/19*	
BP-5.1	*7/15/22*	*HL-30.21*	*4/17/20*	*MT-101.90*	*7/17/20*	*TC-52.20*	*1/15/21*		*913*	*4/16/21*	
		HL-30.22	*1/15/21*	*MT-102.10*	*1/17/20*	*TC-71.10*	*7/15/22*				
DM-1.1	*7/17/20*	*HL-40.20*	*7/15/22*	*MT-103.10*	*1/21/22*						
DM-1.2	*7/16/21*	*HL-50.11*	*1/16/15*	*MT-105.10*	*1/17/20*	*WQ-1.1*	*1/18/13*				
DM-4.2	*7/20/12*	*HL-60.11*	*7/21/17*								
DM-4.4	*1/15/16*	*HL-60.31*	*1/17/20*	*RM-1.1*	*1/15/21*						
				RM-3.1	*7/20/18*						
HW-2.2	*7/20/18*	*MH-3*	*7/16/21*	*RM-4.2*	*4/17/20*						

SUPPLEMENTAL SPECIFICATIONS	*SPECIAL PROVISIONS*

FEDERAL PROJECT NUMBER

N/A

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RECONSTRUCTING THE INTERSECTION OF INDUSTRIAL PKWY AND MITCHELL-DEWITT RD FROM A STOP CONTROLLED INTERSECTION TO A SINGLE-LANE ROUNDABOUT WITH CURB AND GUTTER, DRAINAGE IMPROVEMENTS, LIGHTING, TRAFFIC CONTROL AND NECESSARY UTILITY RELOCATIONS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*5.051 ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*0.530 ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA:	*5.581 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 EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEETS 18, 20, 22, 24 & 27 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED _____

DATE _____ *UNION COUNTY ENGINEER*

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 1 TOTAL 131

TITLE SHEET

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:07 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

SCHEMATIC PLAN

HORIZONTAL SCALE IN FEET
0 50 100 200

SURVEY CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM 100	N/A	N/A	968.80	BM/X ON N AAROW BOLT FH FLO
TBM 101	N/A	N/A	957.17	BM/MAG SPIKE N SIDE OF PP
CP 1500	174110.086	1768284.560	954.84	IPINS/CPT
CP 1501	173963.354	1767684.037	965.50	IPINS/CPT
CP 1502	173661.151	1768761.658	945.59	IPINS/CPT
CP 1503	174147.203	1769099.497	947.03	IPINS/CPT
CP 1504	174515.138	1767982.628	966.16	IPINS/CPT
CP 1009	174106.000	1768334.000	954.01	GOVCON/117 WSM 1953 RESET 1963

BEGIN PROJECT
STA 24+20.00
SLM = 0.46

END PROJECT
STA 37+57.12
SLM = 0.71

1 ℄ CONST MITCHELL-DEWITT RD CURVE 1
P.I.STA. 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000
T = 128.21'
L = 255.04'
E = 8.19'

2 ℄ CONST MITCHELL-DEWITT RD CURVE 2
P.I.STA. 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500'
T = 129.22'
L = 252.90'
E = 16.43'

3 ℄ CONST MITCHELL-DEWITT RD CURVE 3
P.I.STA.33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500'
T = 132'
L =258.1'
E = 17.13'

4 ℄ CONST MITCHELL-DEWITT RD CURVE 4
P.I.STA. 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000'
T = 130.33'
L = 259.33'
E = 8.46'

5 ℄ R/W MITCHELL CROSSING DR CURVE 1
P.I.STA. 1+28.89
Δ = 24°10'07" RT
Dc = 28°38'52"
R = 200'
T =42.82'
L =84.36'
E = 4.53'

6 ℄ R/W MITCHELL CROSSING DR CURVE 2
P.I.STA. 5+55.85
Δ = 37°13'58" RT
Dc = 14°19'26"
R = 400'
T = 134.74'
L = 259.93'
E = 22.08'

A PI STA. 1088+86.16 ℄ CONST & R/W INDUSTRIAL PKWY
Δ = 00° 01' 06"
NO CURVE

B PI STA. 30+97.74 ℄ R/W MITCHELL-DEWITT RD
Δ = 00° 21' 28"
NO CURVE

DESIGN AGENCY	STRUCTUREPOINT LLC
DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	2
TOTAL	131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:16 AM USER: lstutler
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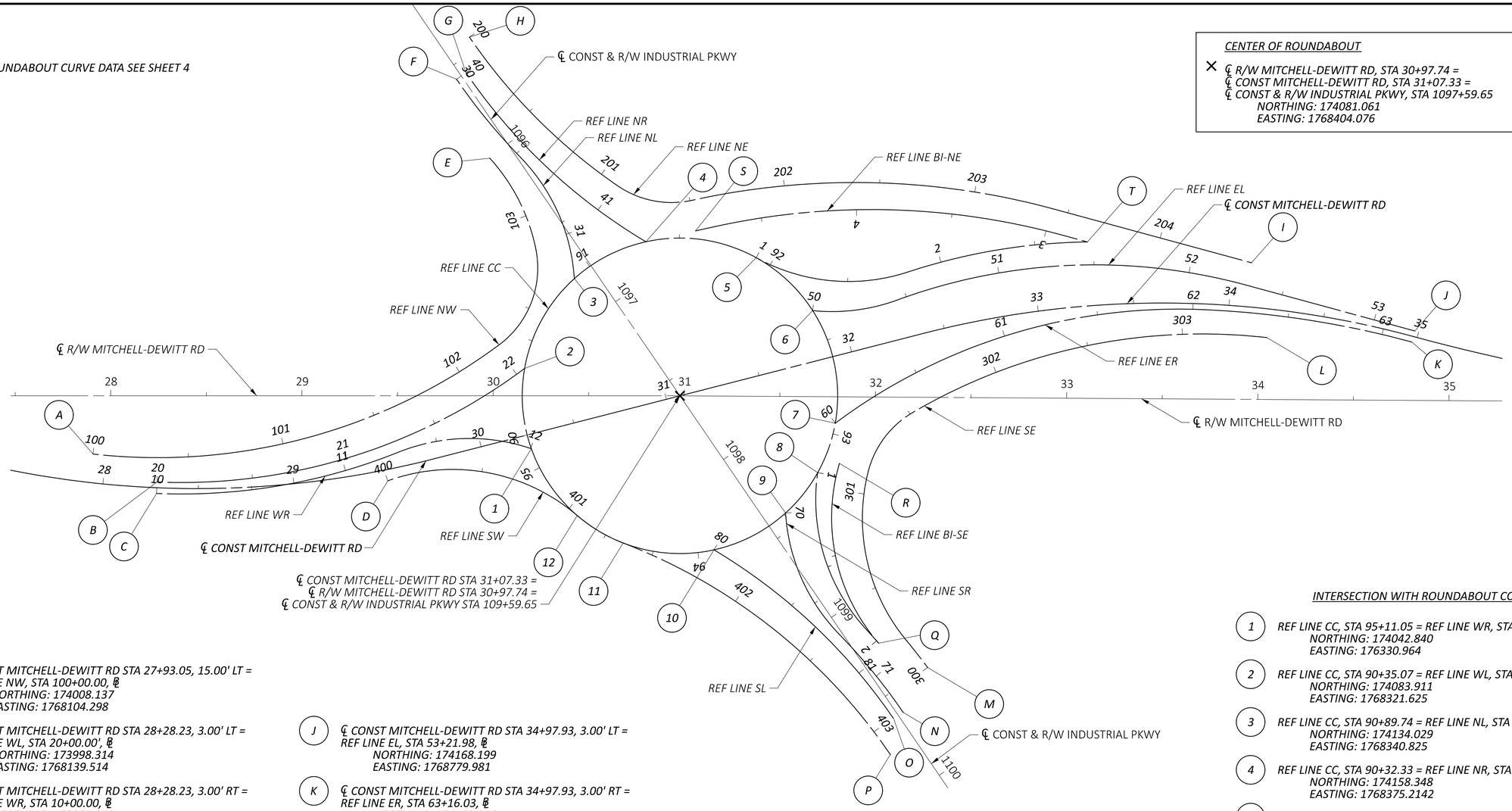
NOTE:
FOR ROUNDABOUT CURVE DATA SEE SHEET 4



CENTER OF ROUNDABOUT

× ℄ R/W MITCHELL-DEWITT RD, STA 30+97.74 =
℄ CONST MITCHELL-DEWITT RD, STA 31+07.33 =
℄ CONST & R/W INDUSTRIAL PKWY, STA 1097+59.65
NORTHING: 174081.061
EASTING: 1768404.076

HORIZONTAL SCALE IN FEET
0 15 30 60

ROUNDBAOUT GEOMETRY LAYOUT

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

INTERSECTION WITH ROUNDABOUT CC

1. REF LINE CC, STA 95+11.05 = REF LINE WR, STA 12+00.33
NORTHING: 174042.840
EASTING: 176330.964
2. REF LINE CC, STA 90+35.07 = REF LINE WL, STA 22+05.20
NORTHING: 174083.911
EASTING: 1768321.625
3. REF LINE CC, STA 90+89.74 = REF LINE NL, STA 31+23.74
NORTHING: 174134.029
EASTING: 1768340.825
4. REF LINE CC, STA 90+32.33 = REF LINE NR, STA 41+30.11
NORTHING: 174158.348
EASTING: 1768375.2142
5. REF LINE CC, STA 91+91.88 = REF LINE BI-NE, STA 1+00.00
NORTHING: 174158.143
EASTING: 1768433.480
6. REF LINE CC, STA 92+32.81 = REF LINE EL, STA 50+00.00
NORTHING: 174134.851
EASTING: 1768466.630
7. REF LINE CC, STA 92+94.25 = REF LINE ER, STA 60+00.00
NORTHING: 174078.211
EASTING: 1768486.527
8. REF LINE CC, STA 93+21.87 = REF LINE BI-SE, STA 1+00.00
NORTHING: 174051.283
EASTING: 1768481.014
9. REF LINE CC, STA 93+48.95 = REF LINE SR, STA 70+00.00
NORTHING: 174028.073
EASTING: 1768481.014
10. REF LINE CC, STA 93+91.54 = REF LINE SL, STA 80+00.00
NORTHING: 174003.765
EASTING: 1768432.913
11. REF LINE CC, STA 94+39.83 = REF LINE SW, STA 401+33.70
NORTHING: 174000.701
EASTING: 1768385.406
12. REF LINE CC, STA 94+67.97 = REF LINE WR, STA 401+05.56
NORTHING: 174011.575
EASTING: 1768359.603

A ℄ CONST MITCHELL-DEWITT RD STA 27+93.05, 15.00' LT =
REF LINE NW, STA 100+00.00, ℄
NORTHING: 174008.137
EASTING: 1768104.298

B ℄ CONST MITCHELL-DEWITT RD STA 28+28.23, 3.00' LT =
REF LINE WL, STA 20+00.00', ℄
NORTHING: 173998.314
EASTING: 1768139.514

C ℄ CONST MITCHELL-DEWITT RD STA 28+28.23, 3.00' RT =
REF LINE WR, STA 10+00.00, ℄
NORTHING: 173992.342
EASTING: 1768140.098

D ℄ CONST MITCHELL-DEWITT RD STA 29+48.57, 5.83' RT =
REF LINE SW, STA , 400+00.00 ℄
NORTHING: 174015.756
EASTING: 1768258.961

E ℄ CONST & R/W INDUSTRIAL PKWY STA 1096+00.97, 11.95' RT =
REF LINE NW, STA 103+35.73, ℄
NORTHING: 174190.226
EASTING: 1768288.291

F ℄ CONST & R/W INDUSTRIAL PKWY STA 1095+57.04, 3.00' RT =
REF LINE NL, STA 30+00.00, ℄
NORTHING: 174228.709
EASTING: 1768265.295

G ℄ CONST & R/W INDUSTRIAL PKWY STA 1095+57.04, 3.00' LT =
REF LINE NR, STA 40+00.00, ℄
NORTHING: 174232.753
EASTING: 1768269.727

H ℄ CONST & R/W INDUSTRIAL PKWY STA 1095+42.67, 15.00' LT =
REF LINE NE, STA 200+00.00, ℄
NORTHING: 174251.458
EASTING: 1768268.905

I ℄ CONST MITCHELL-DEWITT RD STA 34+09.75, 23.11' LT =
REF LINE NE, STA 204+49.48, ℄
NORTHING: 174191.603
EASTING: 1768690.429

J ℄ CONST MITCHELL-DEWITT RD STA 34+97.93, 3.00' LT =
REF LINE EL, STA 53+21.98, ℄
NORTHING: 174168.199
EASTING: 1768779.981

K ℄ CONST MITCHELL-DEWITT RD STA 34+97.93, 3.00' RT =
REF LINE ER, STA 63+16.03, ℄
NORTHING: 174162.246
EASTING: 1768779.229

L ℄ CONST MITCHELL-DEWITT RD STA 34+21.61, 15.00' RT =
REF LINE SE, STA 303+44.26, ℄
NORTHING: 174153.985
EASTING: 1768703.855

M ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+50.00, 26.77' LT =
REF LINE SE, STA 300+00.00, ℄
NORTHING: 173958.446
EASTING: 1768552.114

N ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+62.26, 3.00' LT =
REF LINE SR, STA 71+23.74, ℄
NORTHING: 173933.368
EASTING: 1768542.810

O ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+62.26, 3.00' RT =
REF LINE SL, STA 81+30.11, ℄
NORTHING: 173929.326
EASTING: 1768538.376

P ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+76.63, 15.00' RT =
REF LINE SW, STA 404+14.66, ℄
NORTHING: 173910.621
EASTING: 1768539.192

Q ℄ CONST & R/W INDUSTRIAL PKWY STA 1098+35.91, 48.93' LT =
REF LINE BI-SE, STA 2+98.74, ℄
NORTHING: 174057.683
EASTING: 1768491.615

R ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+25.09, 12.82' LT =
REF LINE BI-SE, STA 1+98.36, ℄
NORTHING: 173967.450
EASTING: 1768525.022

S ℄ CONST & R/W INDUSTRIAL PKWY STA 1096+93.00, 55.42' LT =
REF LINE BI-NE, STA 4+85.10, ℄
NORTHING: 1768400.126
EASTING: 174167.607

T ℄ CONST MITCHELL-DEWITT RD STA 33+28.33, 33.39' LT =
REF LINE BI-NE , STA 2+77.57, ℄
NORTHING: 1768603.903
EASTING: 174190.435

DESIGN AGENCY
STRUCTUREPOINT LLC
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 3 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:22 AM USER: lstutler
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REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Δ	Δc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
CC	N/A	174,081.061	1,768,404.076	360° 00' 00" (RT)	N/A	N/A	518.36	82.50	90+00.00	95+18.36
EL	50+17.01	174,132.526	1,768,483.536	36° 12' 56" (LT)	57° 17' 45"	29.83	57.97	100.00	49+87.18	50+45.16
	51+40.73	174,191.672	1,768,594.108	35° 20' 26" (RT)	19° 05' 55"	95.57	185.04	300.00	50+45.16	52+30.20
ER	61+00.44	174,152.611	1,768,554.015	42° 00' 11" (RT)	19° 05' 55"	115.17	219.93	300.00	59+85.27	62+05.20
	62+60.85	174,169.218	1,768,724.021	12° 46' 37' (RT)	11° 31' 42"	55.65	110.83	497.00	62+05.20	63+16.03
NE	200+55.75	174,210.272	1,768,306.484	21° 03' 22" (LT)	19° 05' 55"	55.75	110.25	300.00	200+00.00	201+10.25
	201+32.00	174,175.613	1,768,375.801	47° 00' 32" (LT)	114° 35' 30"	21.75	41.02	50.00	201+10.25	201+51.27
	202+48.69	174,217.236	1,768,487.460	27° 38' 29" (RT)	14° 28' 07"	97.42	191.04	396.00	201+51.27	203+42.32
NL	30+26.47	174,209.153	1,768,283.139	9° 53' 22" (LT)	18° 43' 27"	26.47	52.82	306.00	30+00.00	30+52.82
	30+97.32	174,165.720	1,768,339.270	47° 58' 36" (RT)	57° 17' 45"	44.50	83.74	100.00	30+52.82	31+36.55
NR	40+73.86	174,178.195	1,768,319.508	27° 39' 39" (LT)	19° 05' 55"	73.86	144.83	300.00	40+00.00	41+44.83
NW	101+18.20	174,011.330	1,768,222.453	43° 00' 30" (LT)	19° 05' 55"	118.20	225.19	300.00	100+00.00	102+25.19
	102+56.96	174,116.550	1,768,329.313	64° 51' 43" (LT)	114° 35' 30"	31.77	56.60	50.00	102+25.192	102+81.79
	103+09.43	174,172.578	1,768,309.562	30° 54' 01" (LT)	57° 17' 45"	27.64	53.93	100.00	102+81.79	103+35.73
SE	300+09.02	173,964.881	1,768,545.793	03° 07' 54" (LT)	17° 21' 44"	9.02	18.04	330.00	300+00.00	300+18.04
	300+68.66	174,005.085	1,768,501.731	53° 42' 11" (RT)	57° 17' 45"	50.63	93.73	100.00	300+18.04	301+11.76
	301+32.76	174,076.305	1,768,509.319	45° 33' 32" (RT)	114° 35' 30"	21.00	39.76	50.00	301+11.76	301+51.52
	302+51.35	174,151.288	1,768,604.063	36° 48' 39" (RT)	19° 05' 55"	99.83	192.74	300.00	301+51.52	303+44.26
SL	80+59.13	173,983.899	1,768,488.613	27° 39' 39" (RT)	19° 05' 55"	73.86	144.83	300.00	79+85.27	81+30.11
SR	70+31.68	173,996.381	1,768,468.855	47° 58' 36" (LT)	57° 17' 45"	44.50	83.74	100.00	69+87.19	70+70.92
	70+97.39	173,952.930	1,768,524.972	9° 53' 22" (RT)	18° 43' 27"	26.47	52.82	306.00	70+70.92	71+23.74
SW	400+58.30	174,043.001	1,768,310.501	60° 28' 56" (RT)	57° 17' 45"	58.30	105.56	100.00	400+00.00	401+05.56
	401+19.77	174,003.916	1,768,371.568	19° 32' 28" (LT)	69° 26' 58"	14.21	28.14	82.50	401+05.56	401+33.70
	402+27.02	173,979.581	1,768,476.311	34° 33' 37" (RT)	19° 05' 55"	93.33	180.96	300.00	401+33.70	403+14.66
WL	21+15.17	174,009.511	1,768,254.137	42° 00' 11" (LT)	19° 05' 55"	115.17	219.93	300.00	20+00.00	22+19.93
WR	10+65.69	173,998.729	1,768,205.476	24° 13' 54" (LT)	18° 43' 27"	65.69	129.41	306.00	10+00.00	11+29.414
	11+73.91	174,053.508	1,768,301.082	47° 58' 36" (RT)	57° 17' 45"	44.50	83.74	100.00	11+29.414	12+13.15
BI-NE	1+43.62	174,142.599	1,768,474.230	47° 07' 43" (LT)	57° 17' 45"	43.62	82.26	100.00	1+00.00	1+82.26
	2+30.29	174,183.133	1,768,556.428	17° 30' 16" (RT)	18° 21' 51"	48.03	95.32	312.00	1+82.26	2+77.57
	3+84.67	174,203.854	1,768,497.648	27° 35' 13" (LT)	15° 04' 40"	93.29	182.96	380.00	2+91.38	4+74.35
BI-SE	1+47.63	174,003.658	1,768,480.886	50° 55' 57" (LT)	57° 17' 45"	47.63	88.89	100.00	1+00.00	1+88.89
	2+53.23	174,003.401	1,768,483.560	57° 30' 48" (RT)	57° 17' 45"	54.88	100.38	100.00	1+98.36	2+98.74

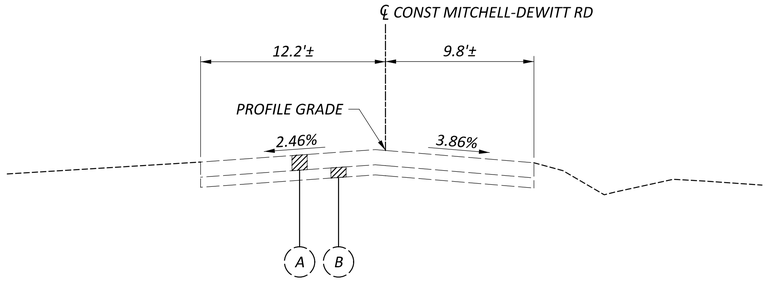
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

ROUNDBAOUT GEOMETRY CURVE DATA

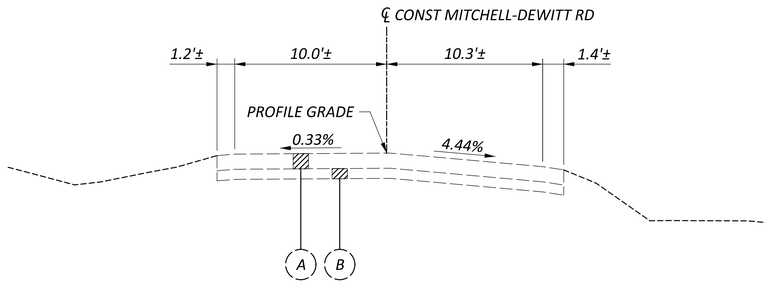
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:24 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway400-Engineering\Roadway\Sheets\01156_GB101.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER
LZS
REVIEWER
KAM 06/02/23
PROJECT ID
2022.01156
SHEET 4 TOTAL 131

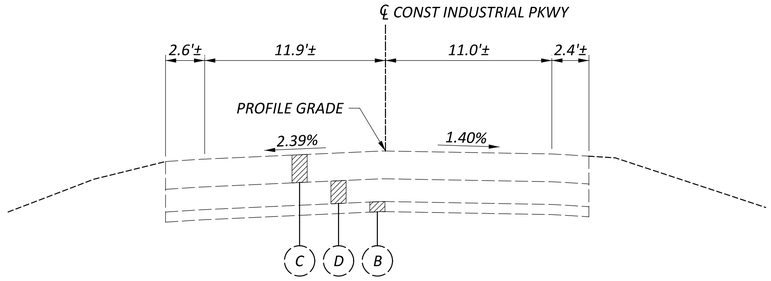
MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:30 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GY001.dgn



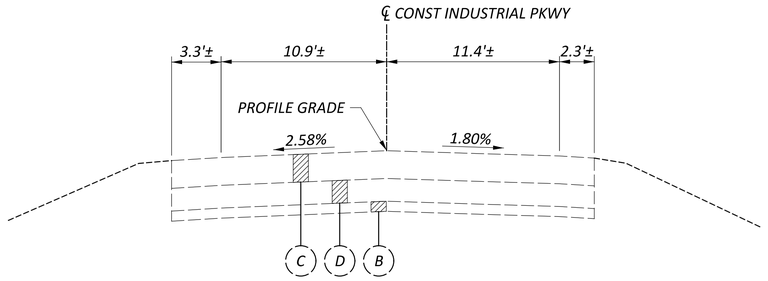
EXISTING SECTION - MITCHELL-DEWITT RD
STA 24+20.00



EXISTING SECTION - MITCHELL-DEWITT RD
STA 37+57.12



EXISTING SECTION - INDUSTRIAL PKWY
STA 1093+25.00



EXISTING SECTION - INDUSTRIAL PKWY
STA 1101+95.00

LEGEND

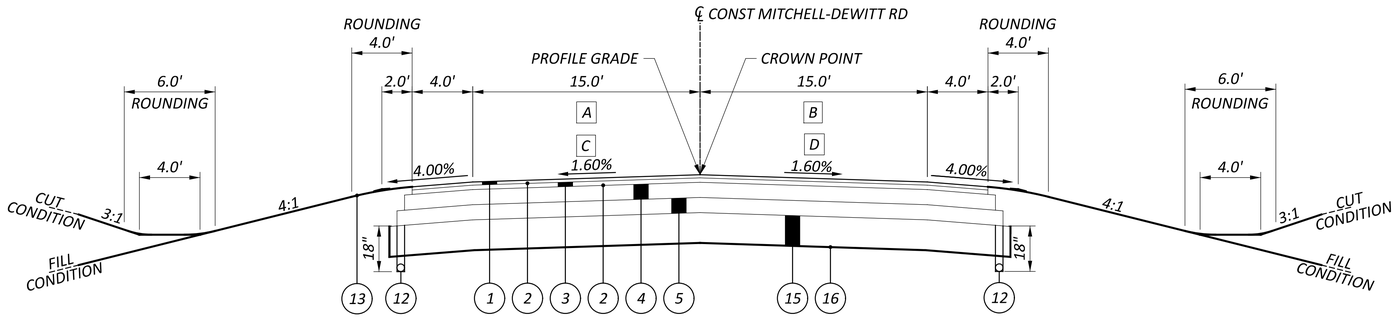
1. *ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22*
2. *ITEM 407 - TACK COAT (0.055 GAL/SY)*
3. *ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)*
4. *ITEM 301 - 8" ASPHALT CONCRETE BASE, (449), PG64-22*
5. *ITEM 304 - 6" AGGREGATE BASE*
6. *ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1*
7. *ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2*
8. *ITEM 609 - CURB, TYPE 6*
9. *ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9*
10. *ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3*
11. *ITEM 609 - 6" CONCRETE TRAFFIC ISLAND*
12. *ITEM 605 - 4" BASE PIPE UNDERDRAINS*
13. *ITEM 659 - SEEDING AND MULCHING*
14. *ITEM 609 - CURB, TYPE 10*
15. *ITEM 204 - GRANULAR MATERIAL, TYPE B*
16. *ITEM 204 - GEOTEXTILE FABRIC*
17. *ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN*

- (A) *EXISTING 6" ASPHALT PAVEMENT*
- (B) *EXISTING 4" AGGREGATE BASE*
- (C) *EXISTING 11" ASPHALT PAVEMENT*
- (D) *EXISTING 9" CONCRETE*

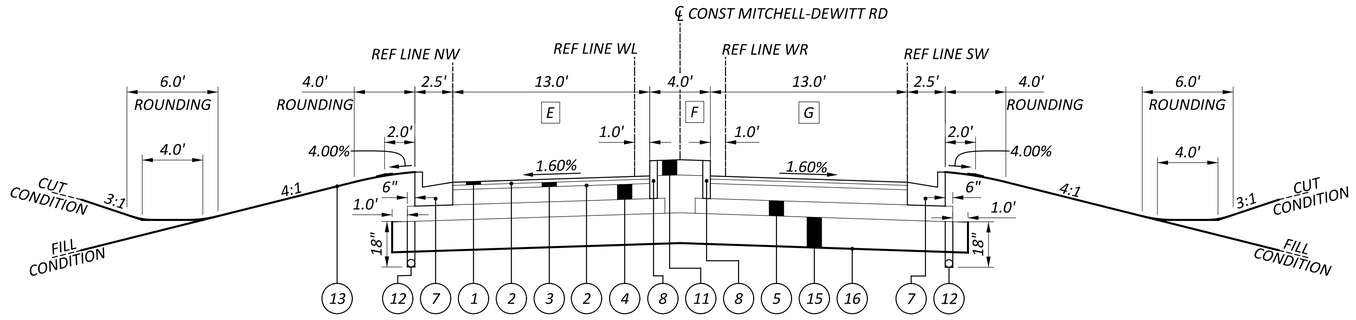
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER
LZS
REVIEWER
KAM 06/02/23
PROJECT ID
2022.01156
SHEET 5 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

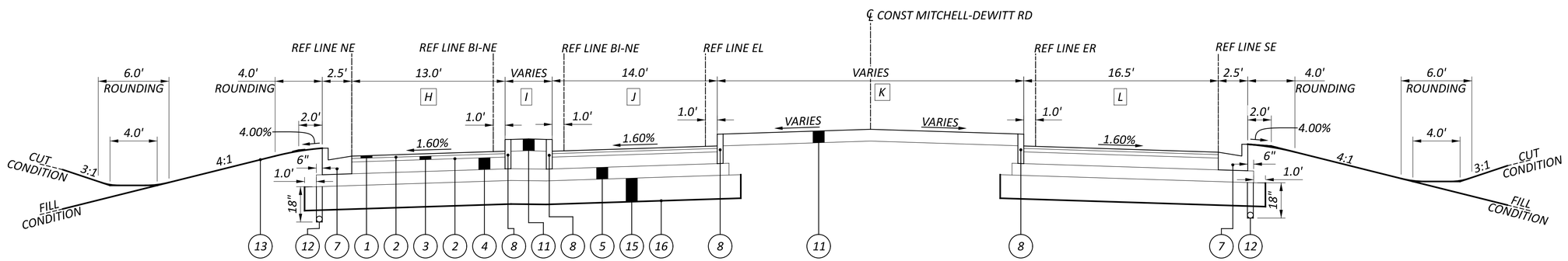
- [A] VARIES 12.0' TO 15.0'
  STA 24+20.00 TO STA 27+19.93
  VARIES 15.0' TO 12.0'
  STA 34+99.93 TO STA 37+57.12
- [B] VARIES 9.7' TO 15.0'
  STA 24+20.00 TO STA 27+19.93
  VARIES 15.0' TO 12.0'
  STA 34+99.93 TO STA 37+57.12
- [C] VARIES 2.46% TO 0.10%
  STA 24+20.00 TO STA 25+51.00
  VARIES 0.10% TO 1.60%
  STA 25+51.00 TO STA 25+90.00
  VARIES 1.60% TO 0.33%
  STA 37+24.00 TO STA 37+57.12
- [D] VARIES 3.86% TO 1.60%
  STA 24+20.00 TO STA 24+78.00
  VARIES 1.60% TO 4.44%
  STA 36+84.00 TO STA 37+57.12
- [E] VARIES 13.0' TO 20.8'
  STA 27+93.05 TO STA 30+23.32
- [F] VARIES 4.0' TO 30.5'
  STA 29+57.03 TO STA 30+23.32
- [G] VARIES 13.0' TO 19.1'
  STA 27+48.57 TO STA 30+23.32
- [H] VARIES 16.7' TO 13.0'
  STA 31+91.46 TO STA 33+12.21
- [I] VARIES 25.0' TO 16.5'
  STA 31+91.46 TO STA 33+12.21
  VARIES 7.6' TO 35.4'
  STA 31+91.46 TO STA 32+07.42
- [J] VARIES 35.4' to 3.8'
  STA 32+07.42 TO STA 33+12.21
- [K] VARIES 18.5' TO 14.0'
  STA 31+91.46 TO STA 32+39.14
- [L] VARIES 50.4' TO 26.8'
  STA 31+91.46 TO STA 33+12.21



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 24+20.00 TO STA 27+19.93
STA 34+99.93 TO STA 37+57.12



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 27+19.93 TO STA 30+23.32
SEE TRUCK SKIRT APRON NW - STA 29+96.37 TO STA 30+23.32
SEE ROUNDABOUT DETAILS - STA 30+23.32 TO STA 31+91.46



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 31+91.46 TO STA 33+12.21
SEE TRUCK SKIRT APRON SE - STA 31+91.46 TO 32+51.99

NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

TYPICAL SECTIONS

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

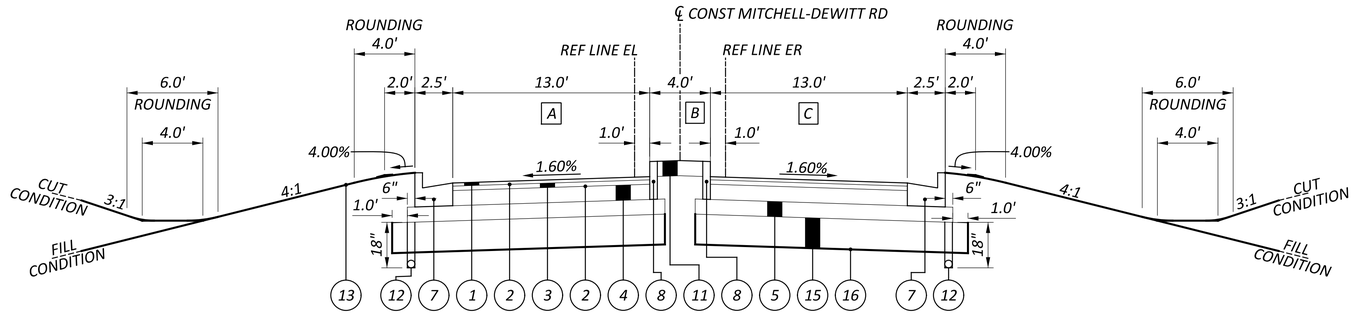
SHEET 6 | TOTAL 131

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:31 AM USER: lstuler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GY001.dgn

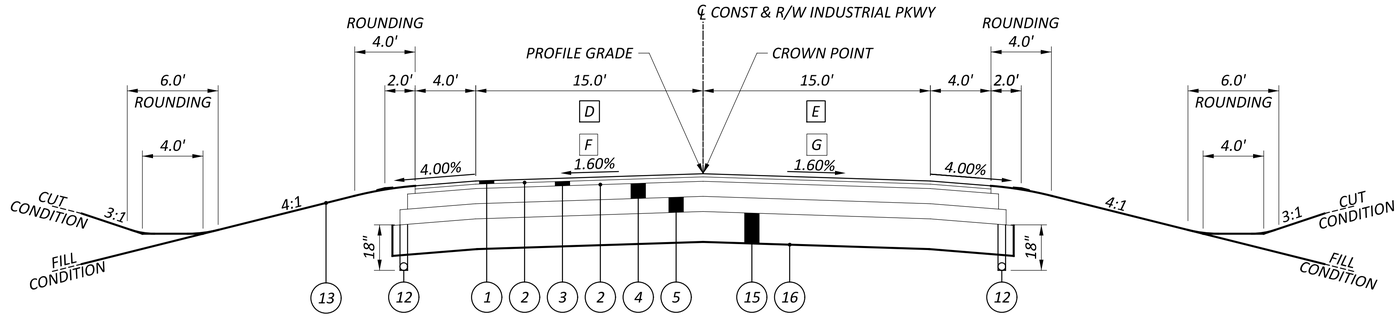
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:32 AM USER: lstuller
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GY001.dgn

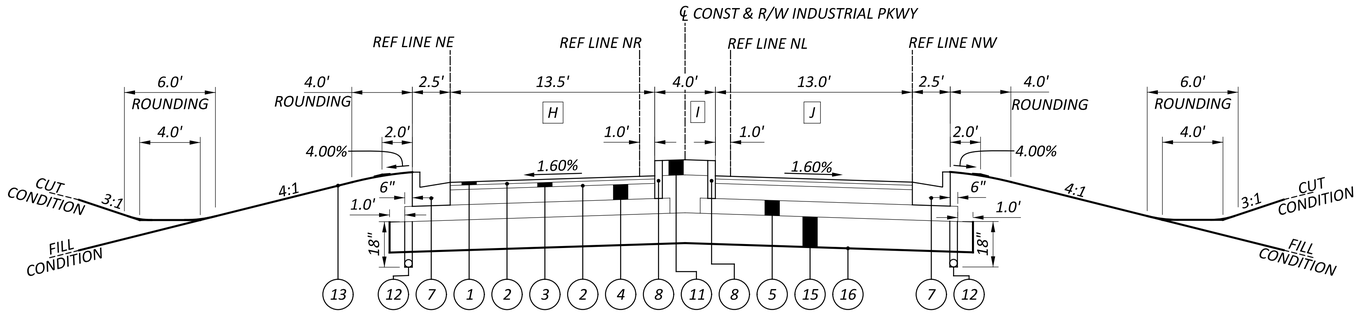
- A — VARIES 30.8' TO 13.0'
  STA 33+12.21 TO STA 34+07.69
- B — VARIES 26.8' TO 4.0'
  STA 33+12.21 TO STA 34+99.93
- C — VARIES 16.5' TO 13.0'
  STA 33+12.21 TO STA 34+21.61
- D — VARIES 12.0' TO 15.0'
  STA 1093+25.00 TO STA 1094+73.00
  VARIES 15.0' TO 12.0'
  STA 1100+45.00 TO STA 1101+95.00
- E — VARIES 12.0' TO 15.0'
  STA 1093+25.00 TO STA 1094+73.00
  VARIES 15.0' TO 12.0'
  STA 1100+45.00 TO STA 1101+95.00
- F — VARIES 2.39% TO 1.60%
  STA 1093+25.00 TO STA 1093+46.00
  VARIES 1.60% TO 2.58%
  STA 1101+70.00 TO STA 1101+95.00
- G — VARIES 1.40% TO 1.60%
  STA 1093+25.00 TO STA 1093+30.00
  VARIES 1.60% TO 1.80%
  STA 1101+90.00 TO STA 1101+95.00
- H — VARIES 13.0' TO 21.2'
  STA 1095+42.67 TO STA 1096+75.29
- I — VARIES 4.0' TO 30.9'
  STA 1095+09.34 TO STA 1096+75.29
- J — VARIES 13.0' TO 19.8'
  STA 1095+99.17 TO STA 1096+75.29



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 33+12.21 TO STA 34+99.93



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1093+25.00 TO STA 1094+73.00
STA 1100+45.00 TO STA 1101+95.00



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1094+73.00 TO STA 1096+75.29
SEE TRUCK SKIRT APRON NE - STA 1096+21.86 TO STA 1096+75.29
SEE TRUCK SKIRT APRON NW - STA 1095+99.20 TO STA 1096+75.29

NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

TYPICAL SECTIONS

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 7 TOTAL 131

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:33 AM USER: lstuller
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TYPICAL SECTIONS

A — *VARIES 0.0' TO 4.8'*
STA 200+80.14 TO STA 201+28.62

VARIES 4.8' TO 0.0'
STA 201+28.62 TO STA 201+70.16

B — *VARIES 0.0' TO 8.1'*
STA 101+97.68 TO STA 102+58.86

VARIES 8.1' TO 0.0'
STA 102+58.86 TO STA 103+35.73

C — *VARIES 0.0' TO 6.5'*
STA 300+27.58 TO STA 301+25.11

VARIES 6.5' TO 0.0'
STA 301+25.11 TO STA 301+80.50

D — *16.8'*
STA 1098+44.01 TO STA 1098+72.80

E — *VARIES 7.7' TO 4.0'*
STA 1098+44.01 TO STA 1098+72.80

F — *VARIES 18.0' TO 16.4'*
STA 1098+44.01 TO STA 1098+72.80

G — *VARIES 30.9' TO 15.3'*
STA 1098+44.01 TO STA 1098+72.80

H — *VARIES 19.7' TO 16.9'*
STA 1098+44.01 TO STA 1098+72.80

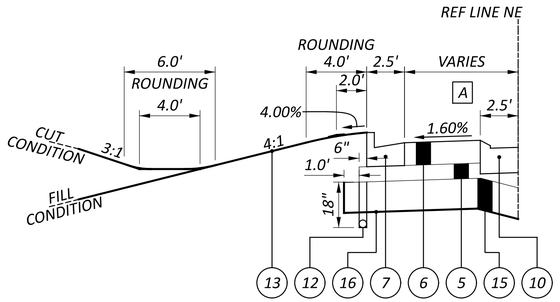
I — *VARIES 37.9' TO 25.0'*
STA 1098+72.80 TO STA 1099+32.00

25.0'
STA 1099+32.00 TO STA 1099+50.00

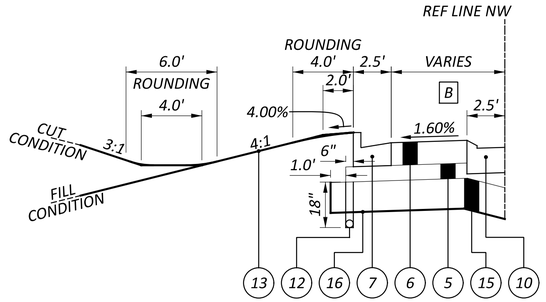
VARIES 25.0' TO 13.0'
STA 1099+50.00 TO STA 1100+00.00

J — *VARIES 15.3' TO 4.0'*
STA 1098+72.80 TO STA 1099+09.96

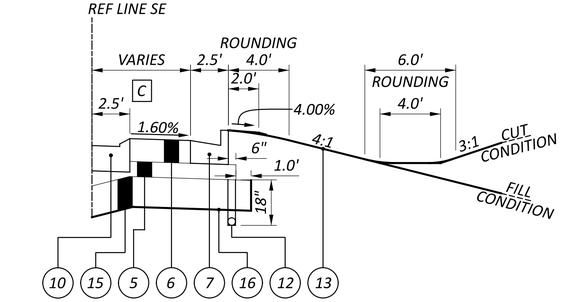
K — *VARIES 16.9' TO 13.0'*
STA 1098+72.80 TO STA 1099+76.63



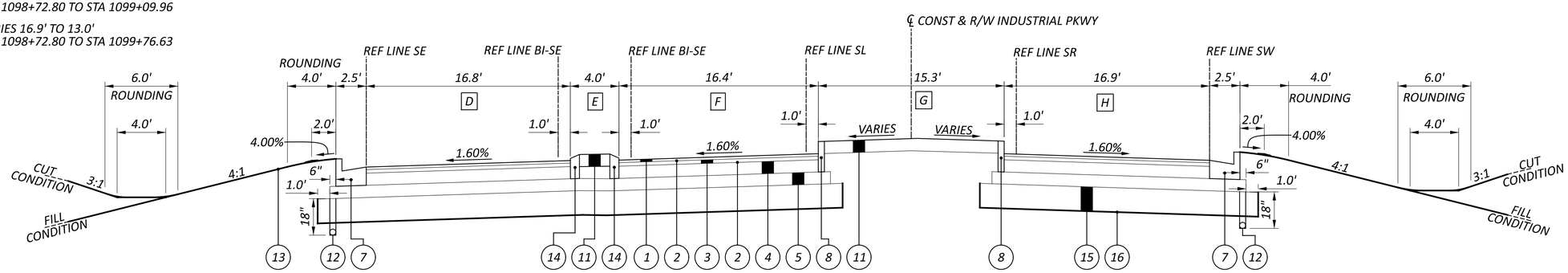
TRUCK SKIRT APRON DETAIL - REF LINE NE
STA 200+80.14 TO STA 201+70.16



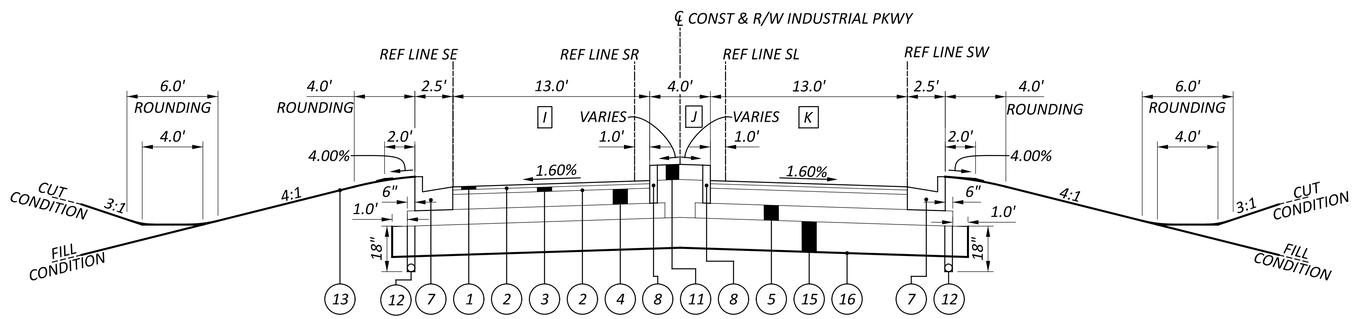
TRUCK SKIRT APRON DETAIL - REF LINE NW
STA 101+97.68 TO STA 103+35.73



TRUCK SKIRT APRON DETAIL - REF LINE SE
STA 300+27.58 TO STA 301+80.50



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1098+44.01 TO STA 1098+72.80
SEE TRUCK SKIRT APRON SE - STA 1098+44.01 TO STA 1098+72.80



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1098+72.80 TO STA 1100+45.00
SEE TRUCK SKIRT APRON SE - STA 1098+72.80 TO STA 1099+22.48

NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 8 TOTAL 131

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:35 AM USER: lstuller
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TYPICAL SECTIONS

[A] *VARIES 1.6' TO 3.0'*
STA 90+00.00 TO STA 90+22.57

VARIES 1.5' TO 3.0'
STA 90+93.96 TO STA 91+19.83

VARIES 1.5' TO 1.0'
STA 91+72.70 TO STA 91+80.62

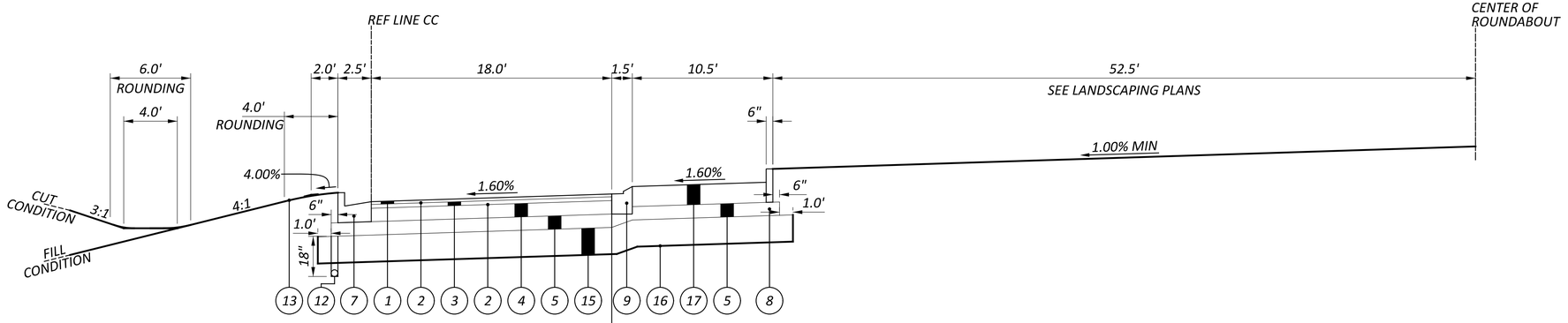
1.0'
STA 91+80.62 TO STA 91+91.88

VARIES 1.5' TO 1.0'
STA 92+36.96 TO STA 92+59.18

VARIES 1.0' TO 1.5'
STA 92+59.18 TO STA 92+82.35

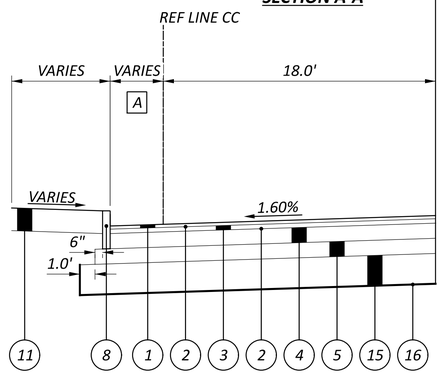
VARIES 1.5' TO 3.0'
STA 93+53.17 TO STA 93+79.03

VARIES 1.5' TO 1.62'
STA 95+15.07 TO STA 95+18.36

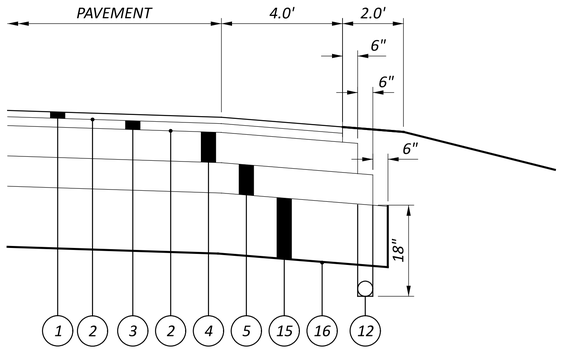


SECTION A-A

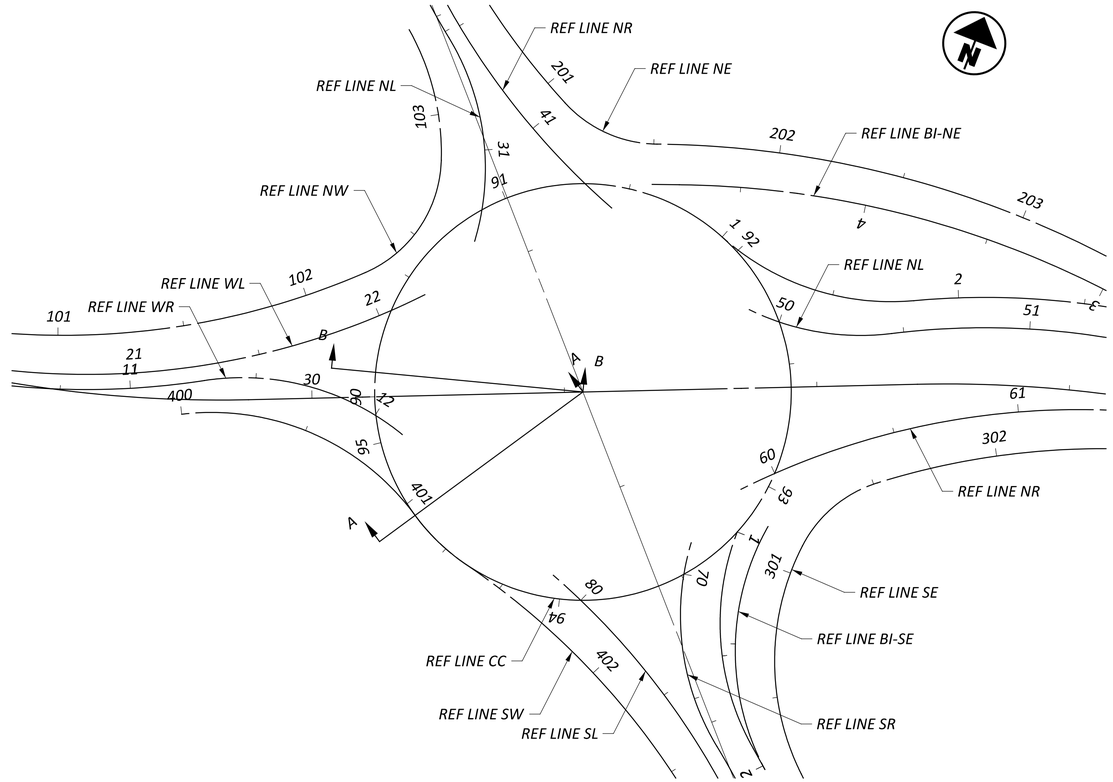
TYPICAL SECTION - ROUNDABOUT
STA 90+00.00 TO STA 95+18.36 (CC)



SECTION B-B



BASE AND SUBBASE STEP DETAIL



NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 9 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:37 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GN001.dgn

UTILITIES

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

WATER
CITY OF MARYSVILLE
ATTN: SCOTT SHEPPEARD
455 N. MAPLE STREET
MARYSVILLE, OHIO 43040
937-645-7350
SSHEPPEARD@MARYSVILLEOHIO.ORG

SEWER
CITY OF MARYSVILLE
ATTN: KYLE HOYNG
12901 BEECHER-GAMBLE ROAD
MARYSVILLE, OHIO 43040
937-645-7350
KHOYNG@MARYSVILLOHIO.ORG

GAS
COLUMBIA GAS OF OHIO
ATTN: ROB CALDWELL
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231
614-818-2104
RCALDWELL@NISOURCE.COM

ELECTRIC
UNION RURAL ELECTRIC COOPERATIVE, INC.
ATTN: HEDY NELSON
15461 US HWY 36
MARYSVILLE, OH 43040
937-642-1826
HNELSON@URE.COM

TELEPHONE & CABLE
AT&T (FORMERLY SBC)
ATT: ADAM STONCHECK
111 N 4TH ST
COLUMBUS, OH 43215
614-266-8964
AS883P@ATT.COM

CHARTER COMMNUNICATIONS/SPECTRUM
(AKA TIME WARNER COMMUNICATIONS)
TRAVIS CONRAD
3760 INTERCHANGE ROAD
COLUMBUS, OH 43204
614-481-5274
DL-MOH-CONSTRUCTION-FRELO-TEAM@CHARTER.COM

ZAYO FIBER SOLUTIONS
ATTN: ERIC L ALEXANDER
251 NEILSON STREET
COLUMBUS, OH 43215
614-989-9655
ERIC.ALEXANDER@ZAYO.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 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:	*VRS GNSS SURVEY*
MONUMENT TYPE:	*TYPE B*

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	*NAVD '88*
GEOID:	*GEOID 18*

HORIZONTAL POSITIONING

REFERENCE FRAME:	*NAD 83 (2011)*
ELLIPSOID:	*GRS80*
MAP PROJECTION:	*LAMBERT CONFORMAL CONIC*
COORDINATE SYSTEM:	*OHIO STATE PLAN (NORTH)*
COMBINED SCALE FACTOR:	*1.000028065*
ORIGIN OF COORDINATE SYSTEM:	*CP 1500 (174110.086, 1768284.560)*

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.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

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 POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7PM AND 7AM. 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.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	*2*	*EA*
659, TOPSOIL	*1390*	*CY*
(12519 X 111/1000 = 1390)		
659, SEEDING AND MULCHING	*12519*	*SY*
659, REPAIR SEEDING AND MULCHING		
(12519 X 0.05 = 626)	*626*	*SY*
659, INTER-SEEDING		
(12519 X 0.05 = 626)	*626*	*SY*
659, COMMERCIAL FERTILIZER		
(12519/7410 + 626/11115 = 1.75)	*1.75*	*TON*
659, LIME		
(12519/4840 = 2.59)	*2.59*	*ACRES*
659, WATER		
(12519 X 0.0054 + 626 X 0.0027 = 69)	*69*	*MGAL*

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE CONSTRUCTION LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

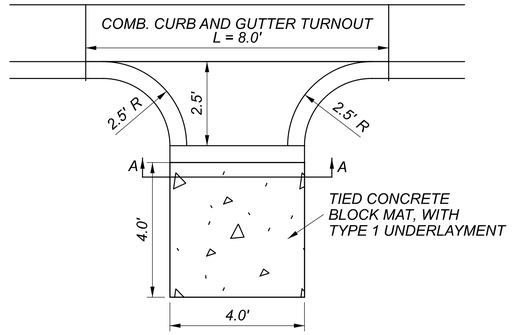
PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

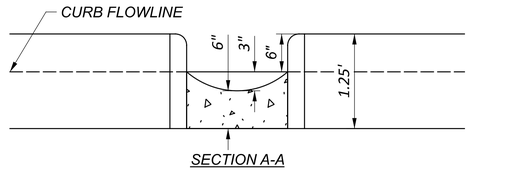
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 - 6" CONDUIT, TYPE B 50 FT
611 - 6" CONDUIT, TYPE E 50 FT
611 - 6" CONDUIT, TYPE F 50 FT
601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 5 CY

ITEM 609 - CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT

THIS ITEM SHALL BE CONSTRUCTED AS PER DETAILS SHOWN BELOW. ALL LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO CONSTRUCT A COMPLETE TURNOUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 609 - CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT (EACH).





REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

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.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 118.

DESIGN AGENCY
MPEAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 10 TOTAL 131

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 203 - ROADWAY, MISC.: GRASS PAVERS

THE DESIGN OF THE GRASS PAVERS SHALL MEET ALL MANUFACTURER'S REQUIREMENTS FOR MATERIALS, LOAD RATINGS AND ANCILLARY CONSTRUCTION ITEMS. ANY TOPSOIL REQUIRED TO FILL IN THE CELLS OF THE GRASS PAVERS SHALL BE INCLUDED IN THE UNIT BID PRICE. THE UNIT PRICE FOR THIS ITEM SHALL ALSO INCLUDE COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

THE GRASS PAVERS SHALL BE:
1. NDS EZ-ROLL GRASS PAVER (HTTPS://WWW.NDSPRO.COM/PRODUCTS/PERMEABLE-PAVERS/EZ-ROLL-GRASS-PAVERS.HTML)
OR
2. TRUEGRID ROOT GRASS PAVERS (HTTPS://WWW.TRUEGRIDPAVER.COM/PRODUCTS/ROOT/)
OR APPROVED EQUAL BY THE ENGINEER.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 – PROOF ROLLING 6 HOUR

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 8, 12, AND 18 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

POST CONSTRUCTION STORM WATER TREATMENT

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

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

ITEM 611 - CONDUIT BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 5 FEET TO THE EDGE OF PAVEMENT. PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENCIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY A CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED.THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

THE WORK FOR THIS ITEM, INCLUDING INCLUDE COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK, SHALL BE PAID FOR UNDER THE ALTERNATE BID ITEM, ITEM 611 - CONDUIT BORED OR JACKED, 12" (SANITATY SEWER).

ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN

A. CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 450 OF THE ODOT STANDARD SPECIFICATIONS.

B. THE CONCRETE COLOR SHALL BE :
- *"BRICK RED" MANUFACTURED BY DAVIS COLORS; PHONE 800-356-4848, EMAIL INFO@DAVISCOLORS.COM, OR INTERNET WWW.DAVISCOLORS.COM*

OR
- *"ENGLISH RED" MANUFACTURED BY KEMIKO; PHONE 800-875-4596, EMAIL EPMARCS@QUAKERHOUGHTON.COM, OR INTERNET WWW.KEMIKO.COM*

OR SIMILAR AS APPROVED BY THE ENGINEER.

C. COLORED CONCRETE WILL BE AN INTEGRAL COLORING APPLICATION, WITH COLORING ADDITIVES MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIX UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE.

D. CURING COMPOUND FOR COLORED CONCRETE: CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR THE USE WITH COLORED CONCRETE. PROVIDE JS CLEAR COAT SEALER OR APPROVED EQUAL ON ALL SURFACES.

E. ADMIXTURES: DO NOT USE CALCIUM CHLORIDE ADMIXTURES.

F. CONCRETE STAMPS SHALL BE OF THE TYPE NECESSARY TO PRODUCE A EUROPEAN FAN BRICK PATTERN WITH BRICKS SIZE 5-1/8 IN WIDE X 4-1/2 IN TO 7" LONG. JOINTS SHALL HAVE THE APPEARANCE OF A 3/8 IN WIDE AND 1/8 IN DEEP GROUNTED JOINT.

G. A MOCKUP SHALL BE BUILT ON SITE 30 DAYS PRIOR TO COMMENCING WORK, USING SAME MATERIALS, METHODS AND WORK FORCE THAT WILL BE USED FOR THE PROJECT. THE ENGINEER AND OWNER WILL DETERMINE SPECIFIC REQUIREMENTS AND LOCATIONS, AND WHETHER MOCKUP SHALL BE INCORPORATED AS PART OF THE FINAL PROJECT.

H. THE MOCKUP SHALL BE OF ADEQUATE SIZE TO ILLUSTRATE THE PATTERN, STAINING, AND TEXTURE SELECTED; AND SHALL INCLUDE AN AREA TO DEMONSTRATE THE FORMLINER BUTT JOINT AND, IF APPROPRIATE, THE CONTINUATION OF PATTERN THROUGH CONSTRUCTION JOINT.

CONSTRUCTION REQUIREMENTS:
A. COMPLY WITH IMPRINTED CONCRETE AND ASSOCIATED FINISHES MANUFACTURER'S INSTRUCTIONS.

B. DO NOT INSTALL WORK IF AIR TEMPERATURE AND CONCRETE SUBSTRATE TEMPERATURE ARE NOT BETWEEN 45 AND 85 DEGREES FAHRENHEIT BEFORE AND DURING ALL INSTALLATION. IN HOT WEATHER, INSTALL WORK IN EARLY MORNING OR WHEN SURFACES ARE SHADED. KEEP BAGGED PRODUCTS OUT OF SUNLIGHT. USE COOL WATER; DO NOT USE WATER FROM HOT WATERING HOSES.

C. PROTECT IMPRINTED CONCRETE AND ASSOCIATED FINISHES FROM RAIN FOR 24 HOURS.

D. IN WINDY WEATHER, PROTECT ADJACENT CONSTRUCTION FROM OVER-SPRAY DURING APPLICATION OF SEALERS.

E. PROTECT ALL EXISTING NON-COLORED CONCRETE SURFACES PRIOR TO POURING COLORED CONCRETE TO AVOID STAINING OF NON-COLORED SURFACES.

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:39 AM USER: lstuller
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 11 TOTAL 131

ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE(S) OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ALONG INDUSTRIAL PKWY AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, OR ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON MITCHELL-DEWITT RD, EXCEPT FOR A PERIOD NOT TO EXCEED 90 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS 15 & 16. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $1500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE UNION COUNTY ENGINEER'S OFFICE.

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.

SIGNS AND BARRICADES

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

ALL LISTED BELOW SHALL BE R11-3-66 SIGNS ON TYPE III BARRICADES
PHASE 1 & 1A:

MITCHELL-DEWITT ROAD AT MITCHELL CROSSING DR FACING WEST

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE 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 PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE UNION COUNTY ENGINEER'S OFFICE. THIS NOTIFICATION SHALL BE RECEIVED BY THE 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 PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS AND PIO
RAMP & ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & 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.

ROAD CLOSED SIGN

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

PHASE 1 & 1A:
MITCHELL-DEWITT ROAD AT MITCHELL CROSSING DR FACING WEST

PHASE 2:
MITCHELL-DEWITT ROAD 700 FT EAST OF INDUSTRIAL PKWY FACING EAST

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.

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

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.

SEQUENCE OF CONSTRUCTION

ORDER OF ROUNDABOUT CONSTRUCTION SHALL BE AS FOLLOWS, UNLESS AN ALTERNATIVE PLAN IS SUBMITTED AND APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES:

NOTE FOR ALL PHASES: ELIMINATE PAVEMENT MARKINGS AND/OR SIGNAGE FROM EXISTING OR PRIOR PHASES THAT CONFLICT WITH PROPOSED WORK OR TRAFFIC PATTERNS.

PRE-PHASE 1:
CONSTRUCT TEMPORARY PAVEMENT ALONG EAST SIDE OF INDUSTRIAL PKWY, AS SHOWN ON SHEETS 17 - 19. TWO-WAY TRAFFIC ON INDUSTRIAL PKWAY AND MITCHELL-DEWITT RD SHALL BE MAINTAINED WITH FLAGGERS WHILE THE TEMPORARY PAVEMENT IS INSTALLED.

PHASE 1:
SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT ALONG EAST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB, DRAINAGE AND TEMPORARY PAVEMENT ALONG WEST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB AND MEDIAN ALONG MITCHELL-DEWITT RD, WEST OF INDUSTRIAL PKWY. TEMPORARY PAVEMENT SHALL BE CONSTRUCTED IN PLACE OF THE CONCRETE SPLITTER ISLAND AND MEDIAN CURB ALONG INDUSTRIAL PKWY , AS WELL AS THE TRUCK APRON, WHICH SHALL BE CONSTRUCTED IN PHASE 3. CLOSURE OF THE MITCHELL CROSSING ROAD INTERSECTION IS NOT PERMITTED. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 2 ALONG WEST SIDE OF INDUSTRIAL PKWY, AS SHOWN ON SHEETS 17 - 19.

CONSTRUCT OFFLINE WORK ON MITCHELL-DEWITT RD FIRST TO LIMIT THE CLOSURE TIME ON MITCHEL-DEWITT RD. THE WEST LEG OF MITCHELL-DEWITT RD SHALL BE CLOSED FOR CONSTRUCTION FOR A MAXIMUM OF 30 DAYS. FOR DETOUR PLAN SEE SHEET 15.

PHASE 1A:
CONSTRUCT PAVEMENT, WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, ALONG MITCHELL-DEWITT RD AT THE MITCHELL CROSSING ROAD INTERSECTION. CONSTRUCT IN PHASES IN ORDER TO MAINTAIN ACCESS TO THE MITCHELL CROSSING SUBDIVISION AT ALL TIMES. CLOSURE OF THE MITCHELL CROSSING ROAD INTERSECTION IS NOT PERMITTED.

PHASE 2:
SHIFT TRAFFIC ONTO PAVEMENT CONSTRUCTED IN PHASE 1 AND TEMPORARY PAVEMENT ALONG WEST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB, DRAINAGE AND TEMPORARY PAVEMENT ALONG EAST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB AND MEDIAN ALONG MITCHELL-DEWITT RD, EAST OF INDUSTRIAL PKWY. ONCE ROUNDABOUT IS OPEN, REMOVE TEMPORARY PAVEMENT AND CONSTRUCT SPLITTER ISLANDS.

CONSTRUCT OFFLINE WORK ON MITCHELL-DEWITT RD FIRST TO LIMIT THE CLOSURE TIME ON MITCHEL-DEWITT RD. THE EAST LEG OF MITCHELL-DEWITT RD SHALL BE CLOSED FOR CONSTRUCTION FOR A MAXIMUM OF 30 DAYS. FOR ETOUR PLAN SEE SHEET 16.

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

PHASE 3:
REMOVE ALL THE TEMPORARY PAVEMENT ALONG INDUSTRIAL PKWY USED IN PHASE 2. CONTRUST THE CONCRETE SPLITTER ISLAND, MEDIAN CURB, TRUCK APRON AND CURB, PLACEMENT OF THE FINAL COURSE OF ASPHALT PAVEMENT, PLACE FINAL PAVEMENT MARKINGS, AND ERECT FINAL SIGNAGE. PERFORM FINAL SITE PREPARATION INCLUDING GRADING, SEEDING AND MULCHING, LANDSCAPING, AND SITE CLEANUP.

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, AND ITEM 615 ROADS FOR MAINTAINING TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	3411 SY
ITEM 615, ROADS FOR MAINTAINING TRAFFIC	LS

MAINTENANCE OF TRAFFIC NOTES

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:28:41 AM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 12 TOTAL 131

ITEM 614 - LAW ENFORCEMENT OFFICER (W/PATROL CAR) FOR ASSITANCE

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- *DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.*

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- *FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).*
- *THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.*

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND IN THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

ITEM 614 - LAW ENFORCEMENT OFFICER (W/PATROL CAR) FOR ASSITANCE (CONTINUED)

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	*120 HOURS*

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DUST CONTROL

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

ITEM 616, WATER	*15 MGAL*

ITEM 614 - DETOUR SIGNING

ALL DETOUR SIGNING FOR PHASE 1 AND 2 SHALL BE PAID FOR UNDER THE LUMP SUM BID PRICE FOR ITEM 614-DETOUR SIGNING.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC	*140 CY*
EMBANKMENT FOR MAINTAINING TRAFFIC	*327 CY*

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ESTIMATED QUANTITIES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO RESTORE INDUSTRIAL PKWY TO THE PRECONSTRUCTION CONDITIONS OUTSIDE OF THE PAVEMENT REPLACEMENT LIMITS.

ITEM 644 - REMOVAL OF PAVEMENT MARKING	*4000 FT*

PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLAST METHOD ONLY.

DRAINAGE FOR MAINTAINING TRAFFIC

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT PLANS AND CARRIED TO THE GENERAL SUMMARY.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR TEMPORARY DRAINAGE PURPOSES:

ITEM 611 - 15"CONDUIT, TYPE A	*94 FT*
ITEM 611 - 24"CONDUIT, TYPE A	*60 FT*

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

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DESIGN AGENCY
STRUCTUREPOINT INC.
DESIGNER
LZS
REVIEWER
KAM 06/02/23
PROJECT ID
2022.01156

SHEET NO.	PHASE	ALIGNMENT	STATION FROM	STATION TO	SIDE	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL) EACH	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) EACH	614 WORK ZONE CENTER LINE, CLASS III, 642 PAINT MILE	614 WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT MILE	614 WORK ZONE STOP LINE, CLASS III, 642 PAINT FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B SY	622 PORTABLE BARRIER, UNANCHORED FT
17 - 18	1	INDUSTRIAL PKWY	1086+25.00	1097+86.61	LT						937	
17 - 19	1	INDUSTRIAL PKWY	1086+25.00	1109+00.00	LT			0.43				
17 - 19	1	INDUSTRIAL PKWY	1086+25.00	1109+00.00	LT				0.43			
17 - 18	1	INDUSTRIAL PKWY	1086+25.00	1097+86.61	LT				0.22			
18 - 19	1	INDUSTRIAL PKWY	1098+03.98	1109+00.00	LT						910	
18 - 19	1	INDUSTRIAL PKWY	1098+10.87	1109+00.00	LT				0.21			
18	1	EX MITCHELL-DEWITT RD	31+54.27	31+57.57	RT					13		
17 - 19	1	INDUSTRIAL PKWY	1092+25.69	1103+04.27	RT	2	22					1080
22	1A	EX MITCHELL-DEWITT RD	24+65.00	24+89.00	LT						32	
23 - 24	2	INDUSTRIAL PKWY	1086+25.00	1096+84.46	RT						829	
23 - 25	2	INDUSTRIAL PKWY	1086+25.00	1109+00.00	RT			0.44				
23 - 24	2	INDUSTRIAL PKWY	1086+25.00	1096+84.46	RT				0.21			
23 - 25	2	INDUSTRIAL PKWY	1086+25.00	1109+00.00	RT				0.43			
24 - 25	2	INDUSTRIAL PKWY	1098+82.96	1109+00.00	RT						703	
24 - 25	2	INDUSTRIAL PKWY	1098+82.96	1109+00.00	RT				0.19			
24	2	MITCHELL-DEWITT RD	30+11.62	30+21.89	RT					19		
23 - 25	2-Jan	INDUSTRIAL PKWY	1092+25.69	1103+04.27	LT	2	22					1080
TOTALS CARRIED TO GENERAL SUMMARY						4	44	0.87	1.69	32	3411	2160

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MAINTENANCE OF TRAFFIC SUBSUMMARY

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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 14 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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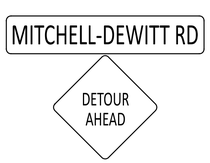
TYPE 3 BARRICADE

2



R11-2-30
TYPE 3 BARRICADE

3



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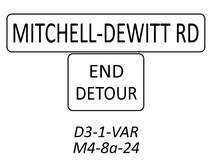

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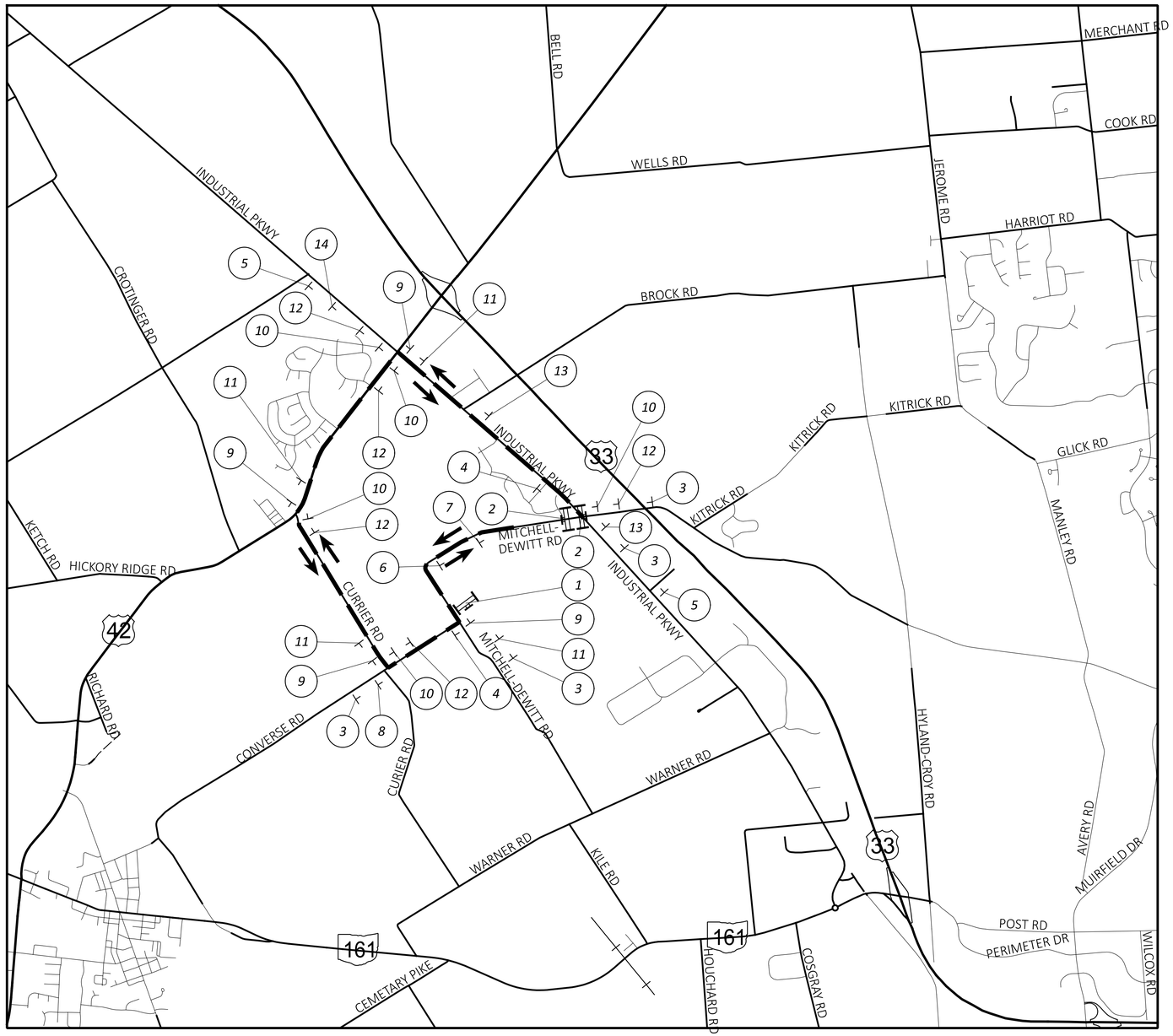

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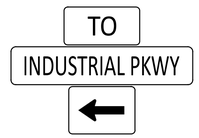

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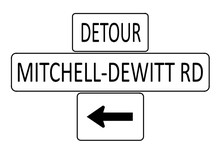

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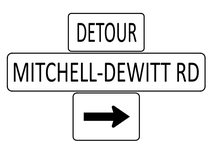

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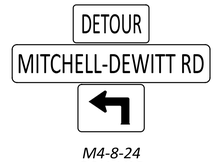

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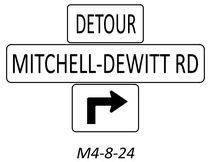

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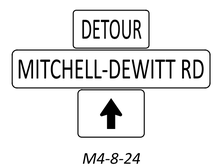

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M6-3-21

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W20-3-36
D3-1-VAR
M3-4-24

LEGEND
DETOUR ROUTE
TYPE 3 BARRICADE
DIRECTION OF TRAVEL

DETOUR PLAN
PHASE 1

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	15
TOTAL	131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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1



R11-3A-30
M4-10R-48
TYPE 3 BARRICADE

2



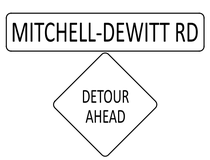
R11-3A-30
M4-10R-48
TYPE 3 BARRICADE

3



R11-2-30
TYPE 3 BARRICADE

4



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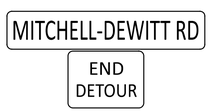

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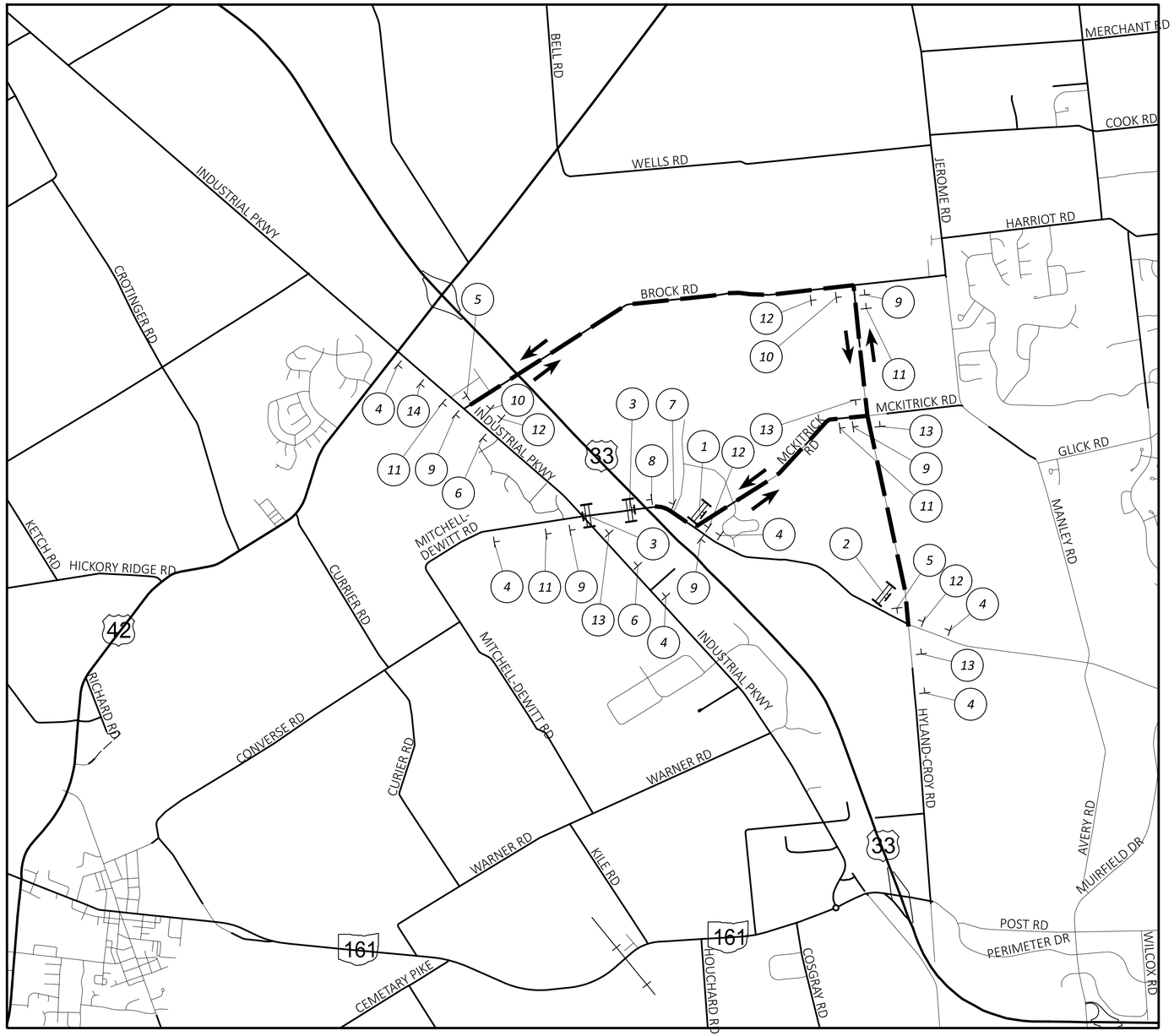

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W20-3-36
W16-2P-24

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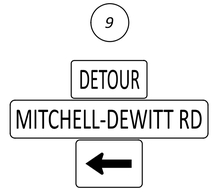

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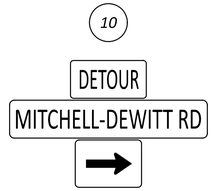

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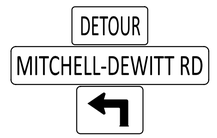

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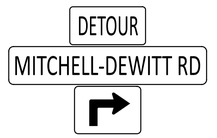

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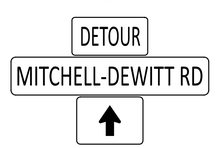

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M6-3-21

14



W20-3-36
D3-1-VAR
M3-4-24

LEGEND
DETOUR ROUTE
TYPE 3 BARRICADE
DIRECTION OF TRAVEL

DETOUR PLAN
PHASE 2

DESIGN AGENCY
STRUCTUREPOINT LLC

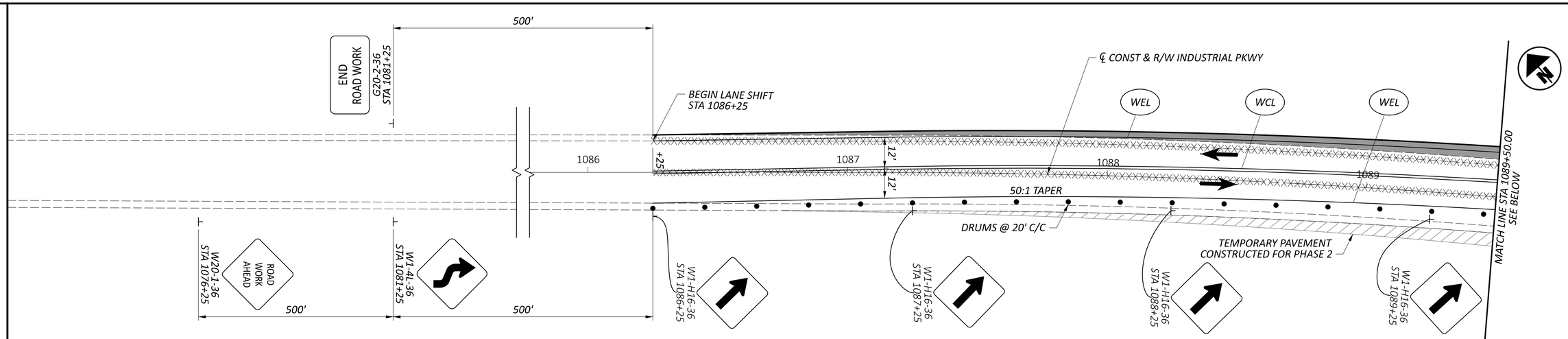
DESIGNER
LZS

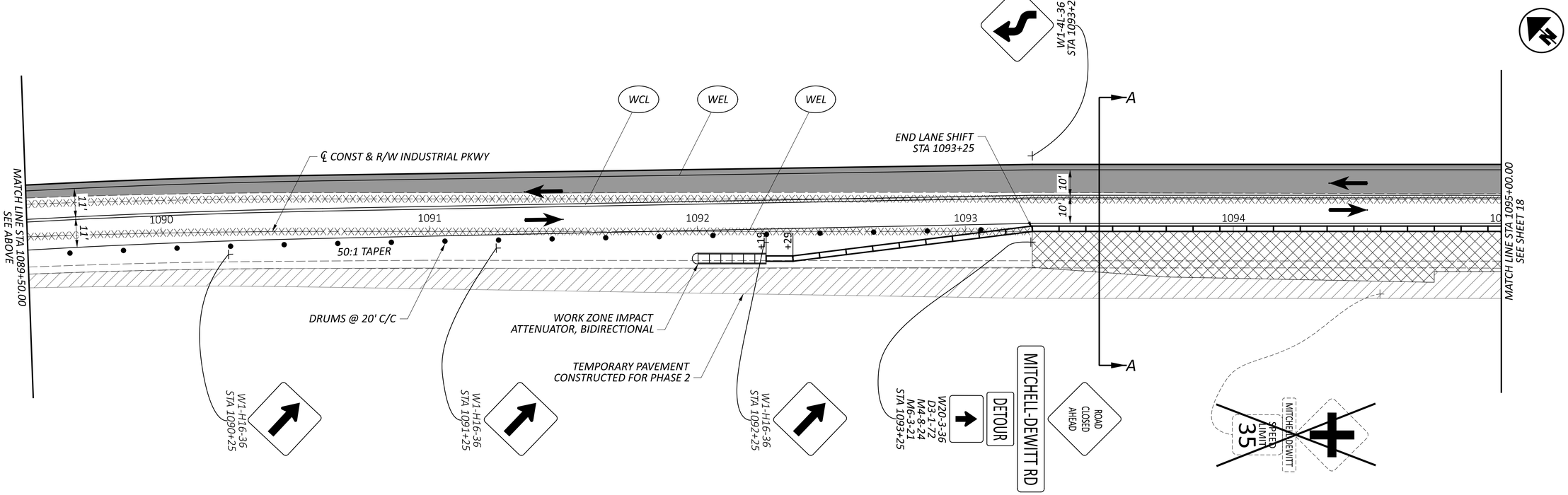
REVIEWER
KAM 06/02/23

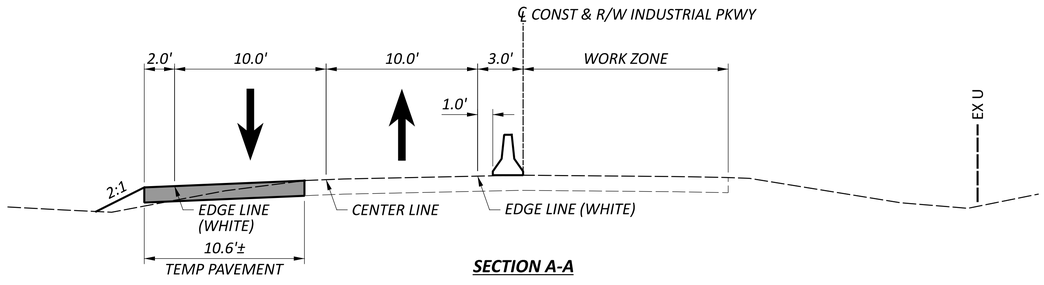
PROJECT ID
2022.01156

SHEET 16 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT







SECTION A-A

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- STOP — EX SIGN TO BE REMOVED/COVERED
- STOP — EX SIGN TO REMAIN
- STOP — PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
INDUSTRIAL PKWY - STA. 1084+00.00 TO STA 1095+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 17 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:02 AM USER: lstutler
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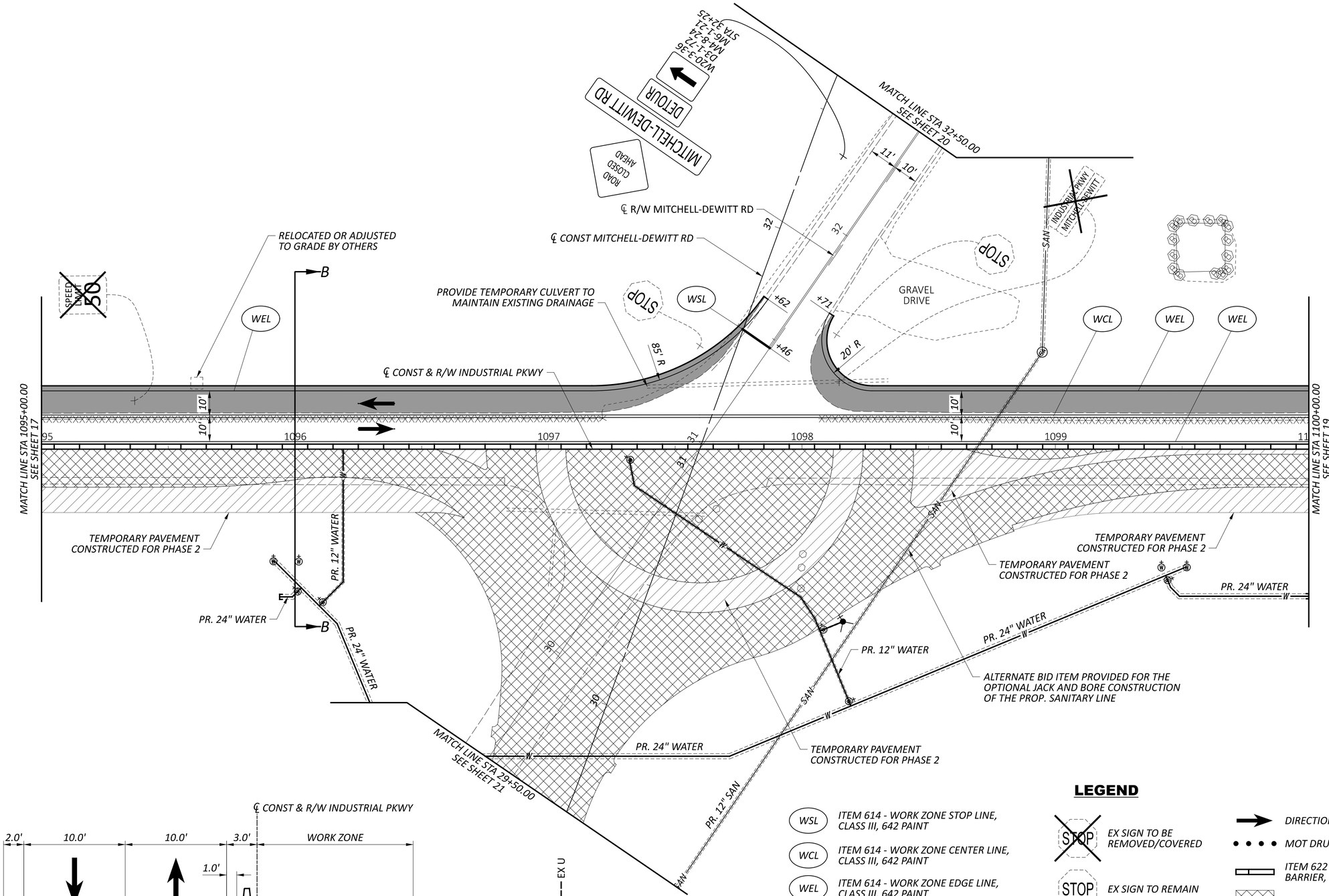
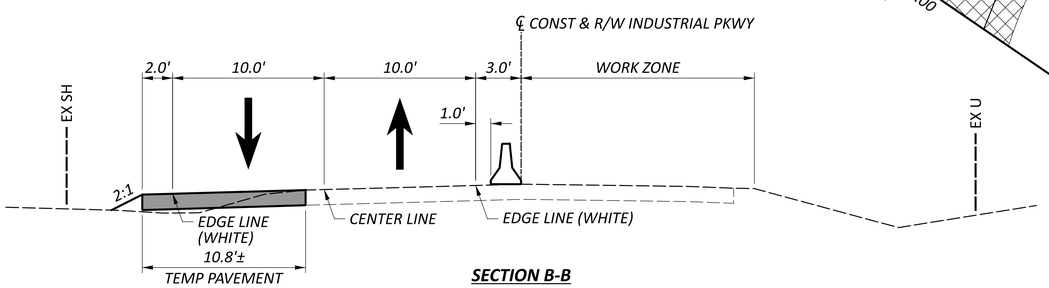
MAINTENANCE OF TRAFFIC - PHASE 1
INDUSTRIAL PKWY - STA. 1095+00.00 TO STA 1100+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40





SECTION B-B

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- STOP — EX SIGN TO BE REMOVED/COVERED
- STOP — EX SIGN TO REMAIN
- STOP — PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET: 18 TOTAL: 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:07 AM USER: lstuller
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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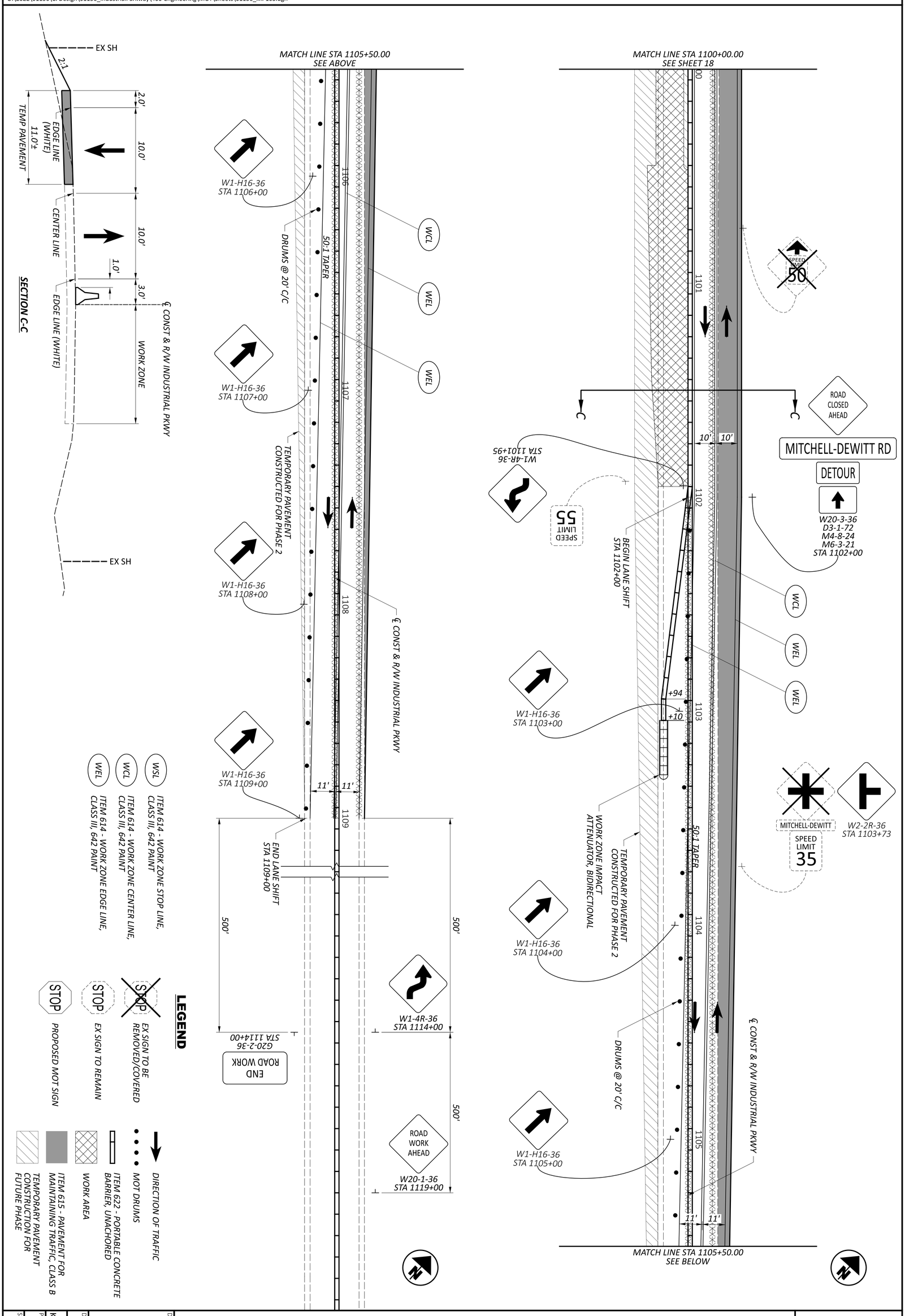

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.	DESIGNER: LZS	REVIEWER: KAM 06/02/23	PROJECT ID: 2022.01156
SHEET: 19	TOTAL: 131		

MAINTENANCE OF TRAFFIC - PHASE 1
INDUSTRIAL PKWY - STA. 1100+00.00 TO STA 1111+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:13 AM USER: lstutler
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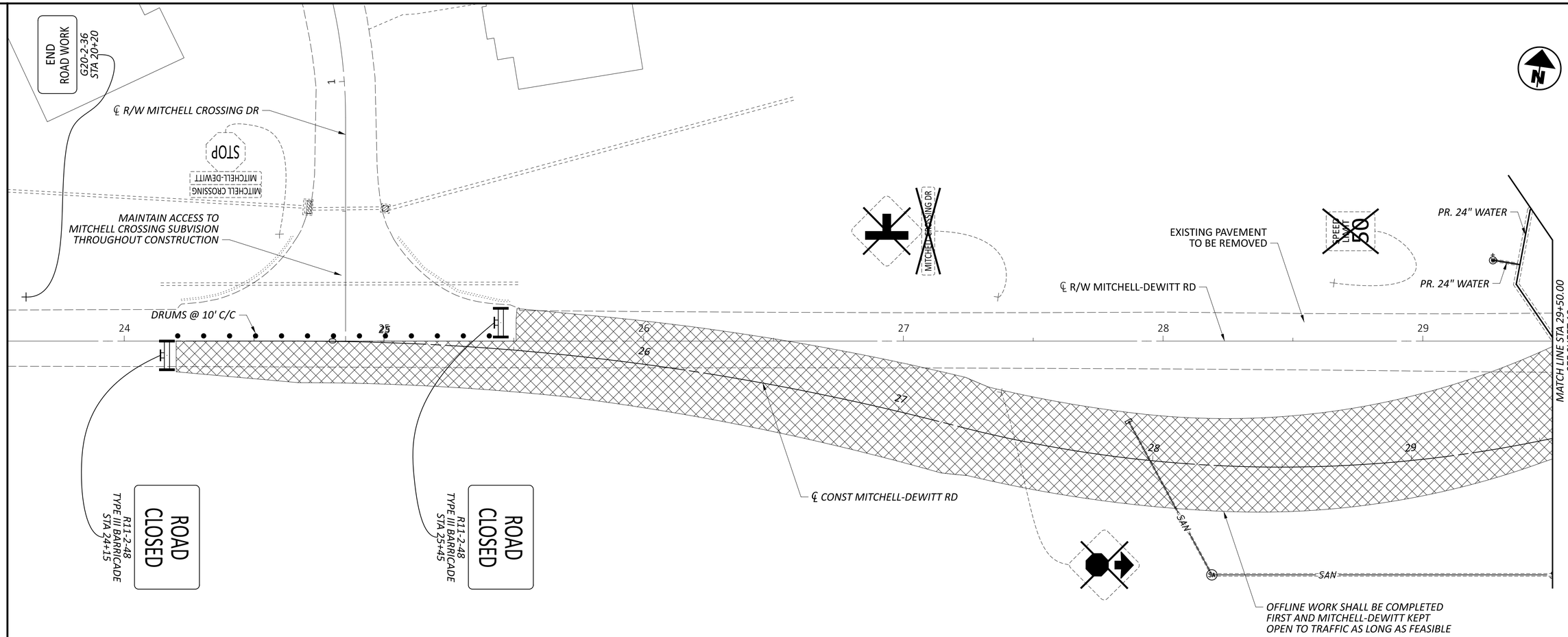

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
MITCHELL-DEWITT RD - STA. 24+00.00 TO STA 29+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 20 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:16 AM USER: lstutler
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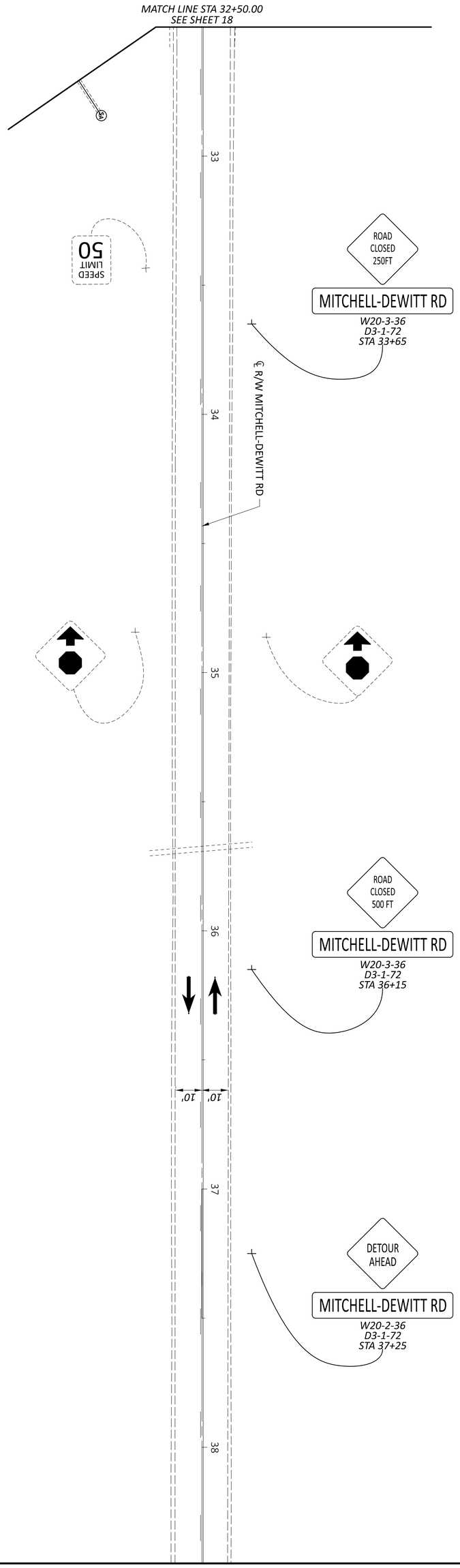

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
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- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
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- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

MAINTENANCE OF TRAFFIC - PHASE 1
MITCHELL-DEWITT RD - STA. 32+50.00 TO STA 38+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
LZS	KAM 06/02/23	2022.01156	21	131

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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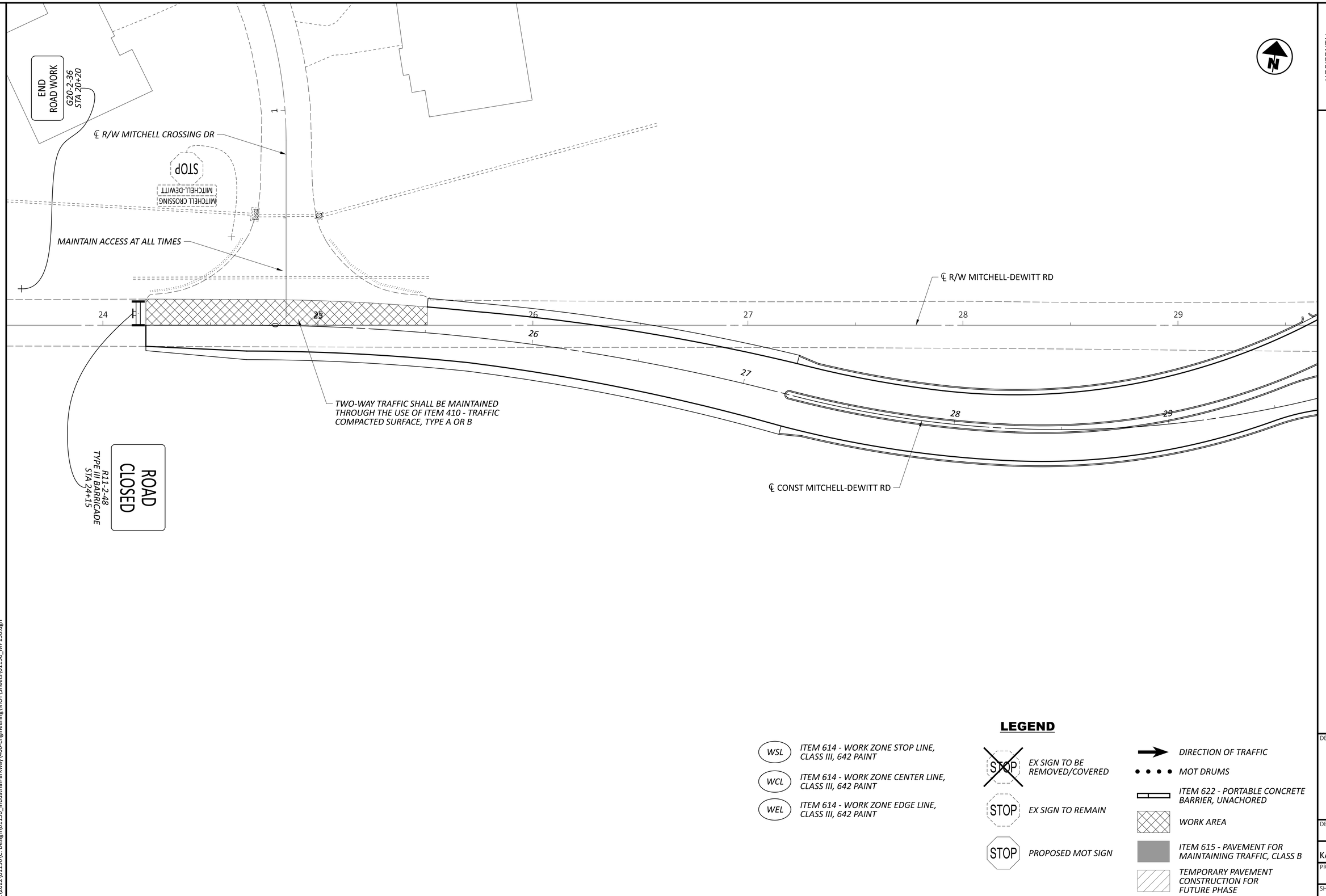


LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

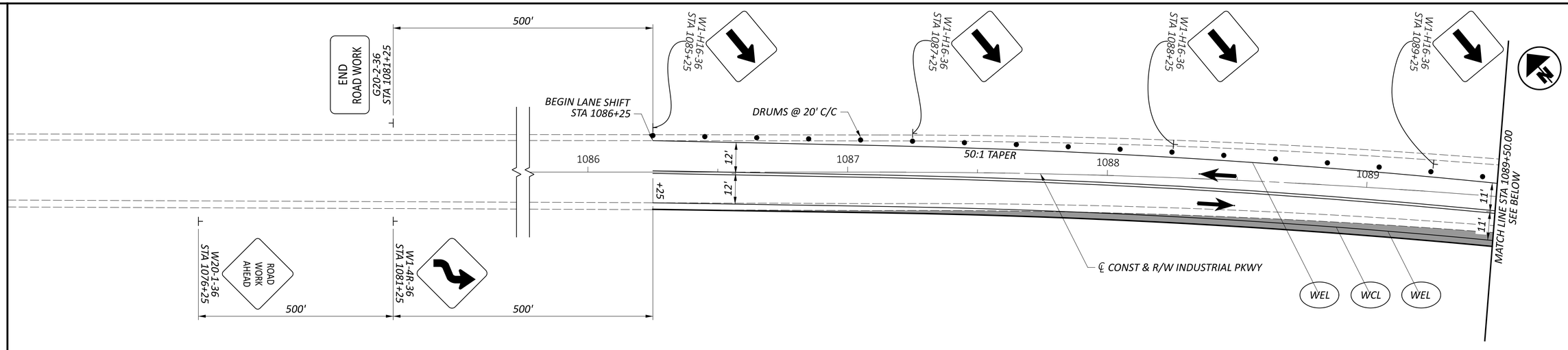
HORIZONTAL SCALE IN FEET
0 10 20 40

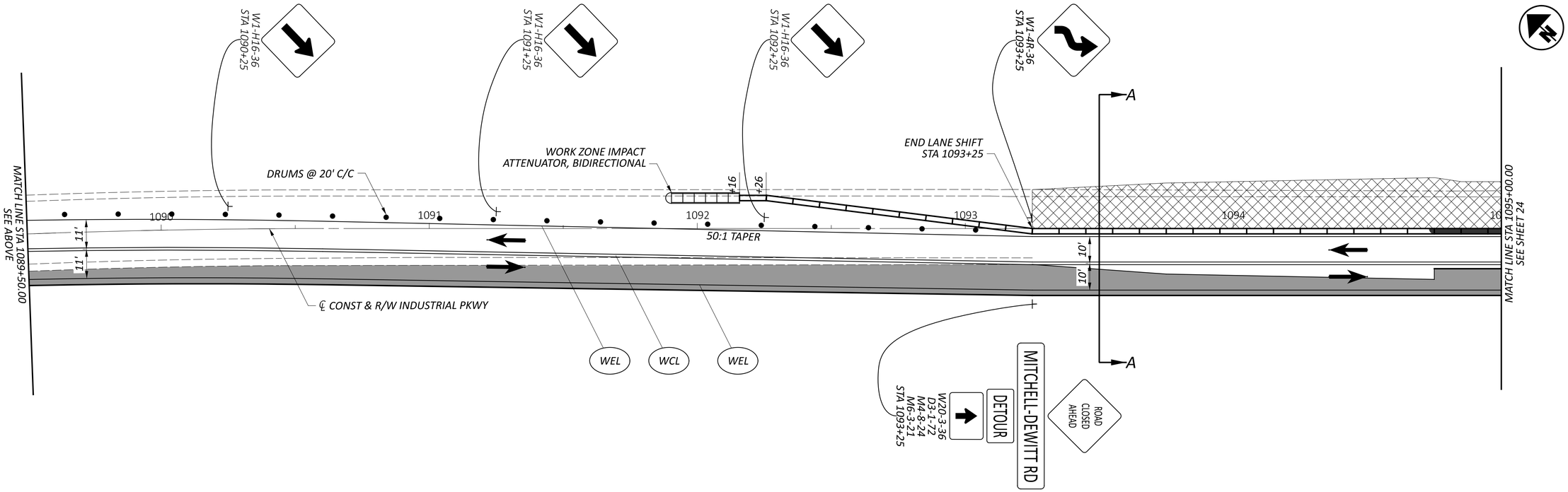
MAINTENANCE OF TRAFFIC - PHASE 1A
MITCHELL-DEWITT RD - STA. 24+00.00 TO STA 29+50.00

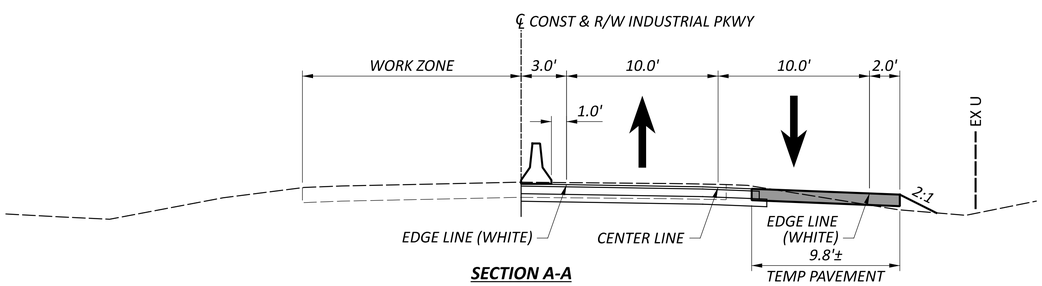
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	22
TOTAL	131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT







SECTION A-A

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
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- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
INDUSTRIAL PKWY - STA. 1084+00.00 TO STA 1095+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	23
TOTAL	131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:26 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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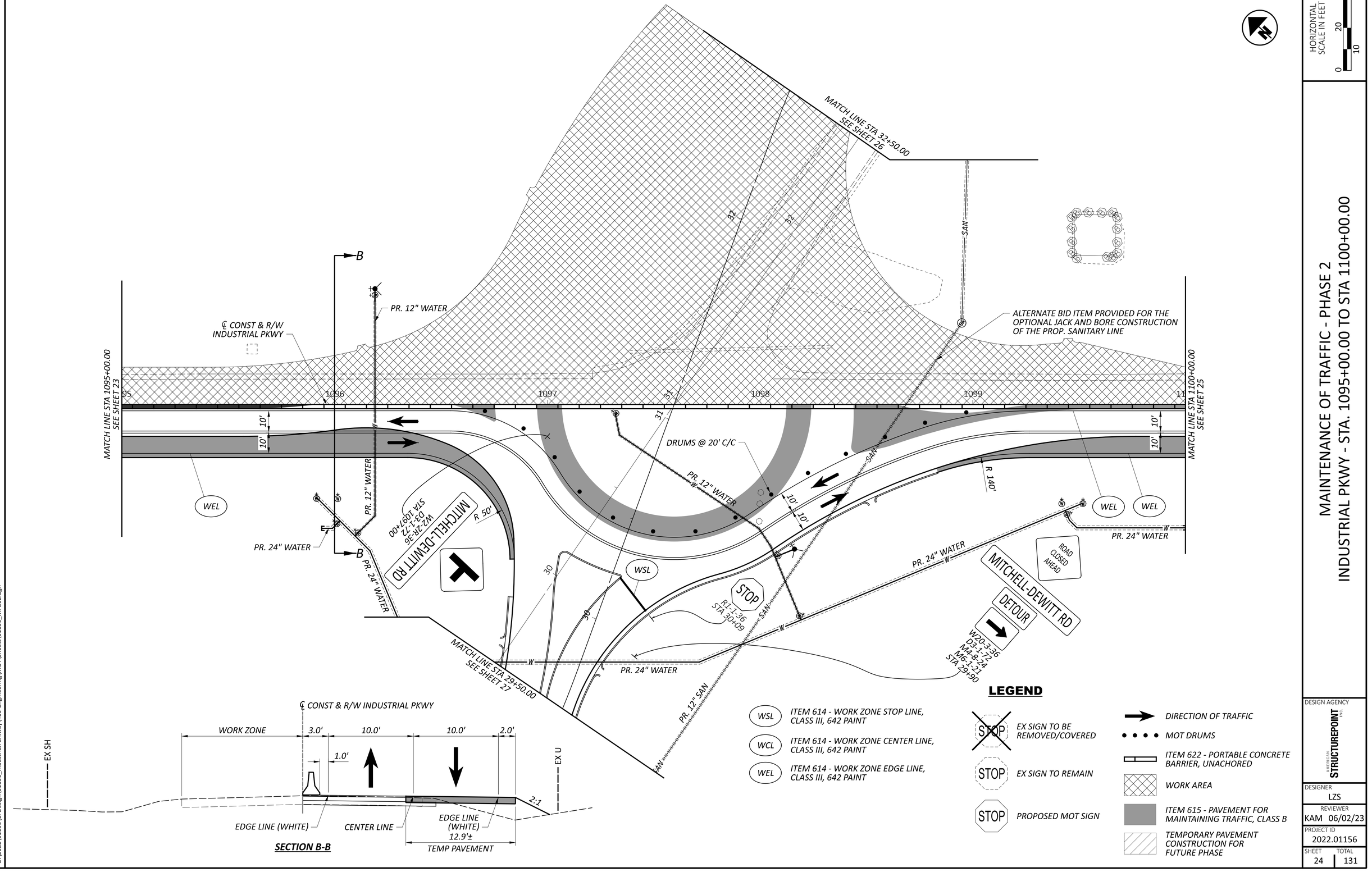

SECTION B-B

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
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- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
INDUSTRIAL PKWY - STA. 1095+00.00 TO STA 1100+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS

REVIEWER KAM 06/02/23

PROJECT ID 2022.01156

SHEET 24 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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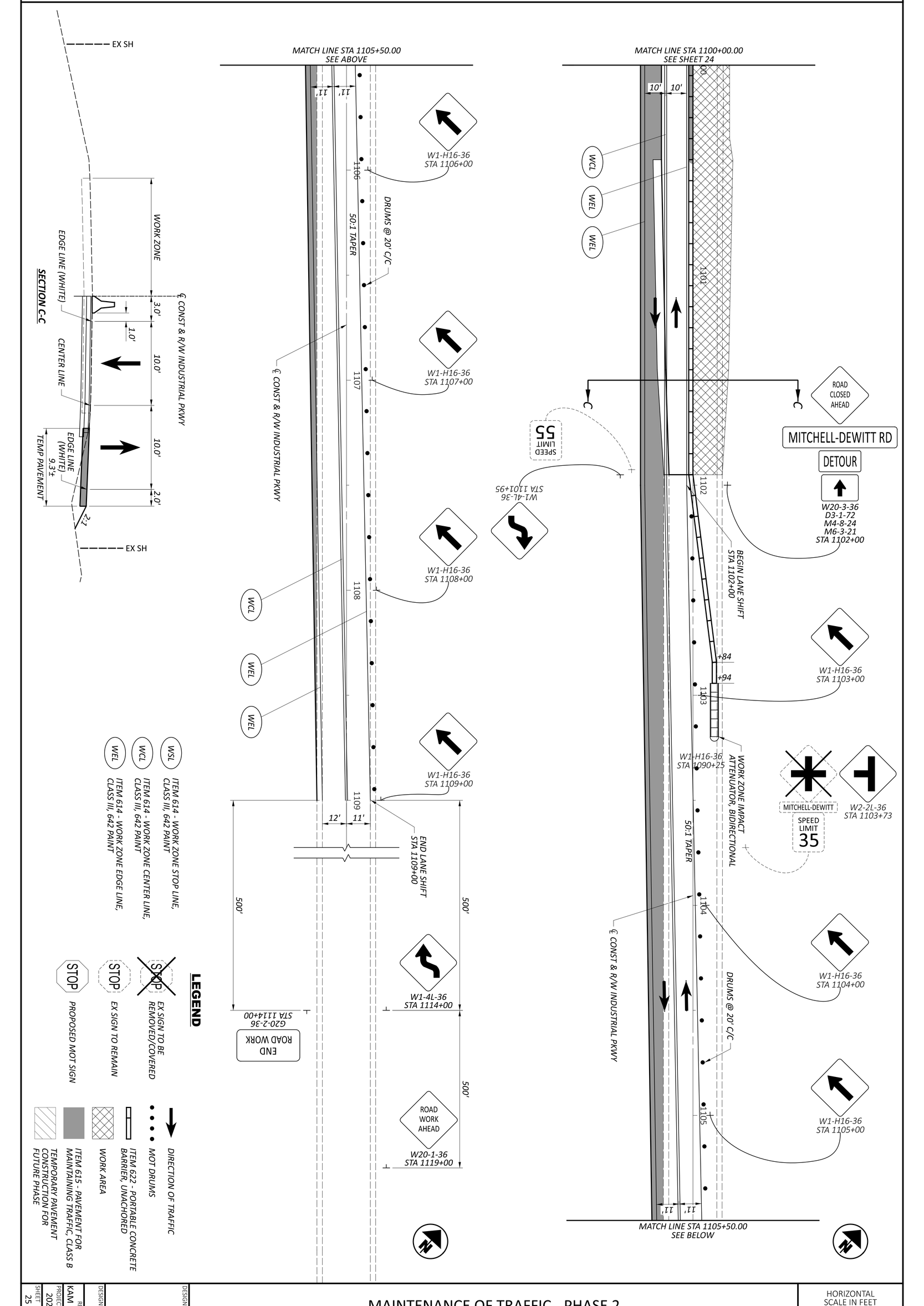

MAINTENANCE OF TRAFFIC - PHASE 2
INDUSTRIAL PKWY - STA. 1100+00.00 TO STA 1111+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
LZS	KAM 06/02/23	2022.01156	25	131

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:37 AM USER: lstutler
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LEGEND

- WSL — *ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT*
- WCL — *ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT*
- WEL — *ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT*
- *EX SIGN TO BE REMOVED/COVERED*
- *EX SIGN TO REMAIN*
- *PROPOSED MOT SIGN*
- *DIRECTION OF TRAFFIC*
- *MOT DRUMS*
- *ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED*
- *WORK AREA*
- *ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B*
- *TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE*

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
MITCHELL-DEWITT RD - STA. 24+00.00 TO STA 29+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 26 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:40 AM USER: lstutler
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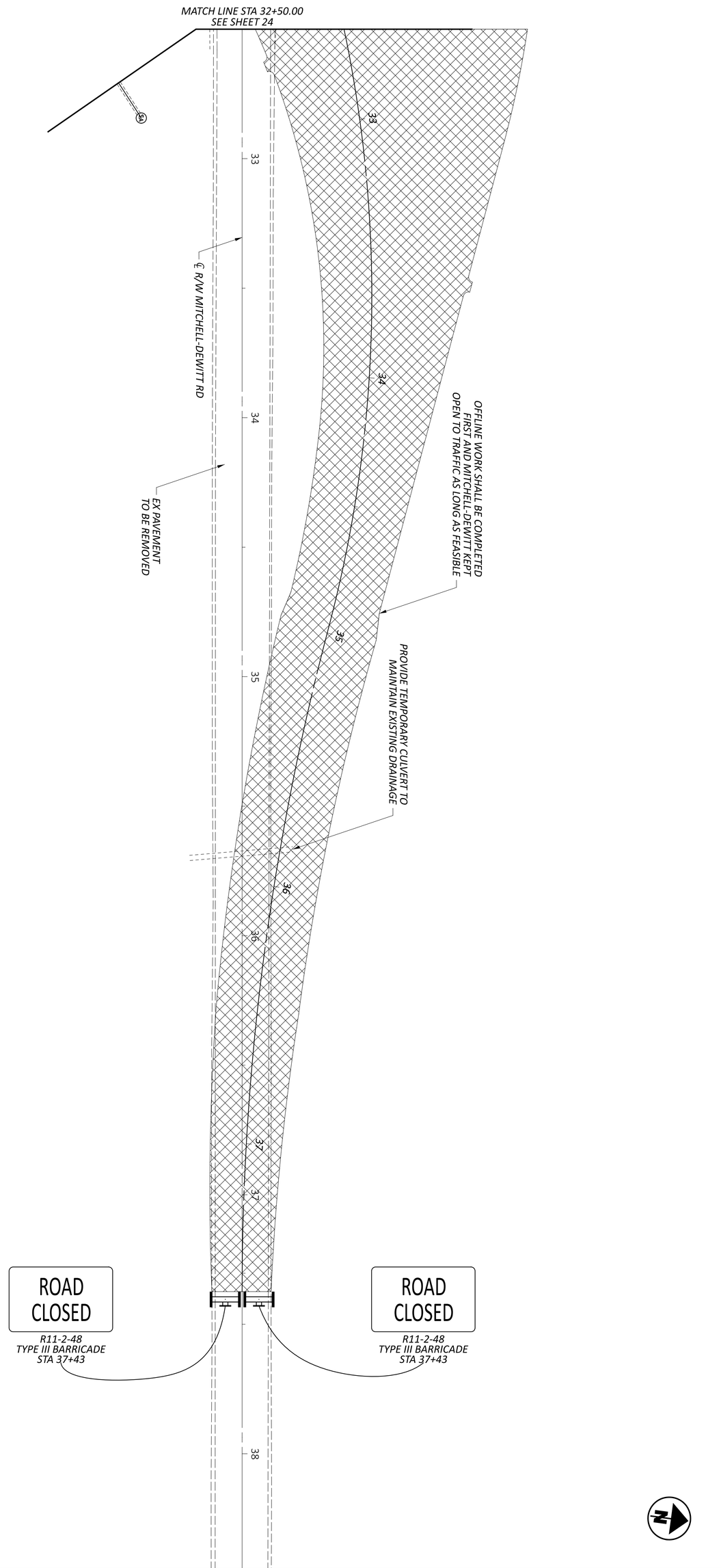

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
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- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

MAINTENANCE OF TRAFFIC - PHASE 2
MITCHELL-DEWITT RD - STA. 32+50.00 TO STA 38+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
LZS	KAM 06/02/23	2022.01156	27	131

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
					10	31	32	34	87	88	116	OFFICE CALCS							
																		ROADWAY	
												LS		201	11000	LS		CLEARING AND GRUBBING	10
						6,135								202	23000	6,135	SY	PAVEMENT REMOVED	
						240								202	35100	240	FT	PIPE REMOVED, 24" AND UNDER	
						3								202	98100	3	EACH	REMOVAL MISC.: METAL T-POSTS	
												7,352		203	10000	7,352	CY	EXCAVATION	
												3,221		203	20000	3,221	CY	EMBANKMENT	
								553						203	98100	553	SY	ROADWAY, MISC.: GRASS PAVERS	10
							10,862							204	10000	10,862	SY	SUBGRADE COMPACTION	
							3,619							204	13000	3,619	CY	EXCAVATION OF SUBGRADE	
							3,619							204	30010	3,619	CY	GRANULAR MATERIAL, TYPE B	
							6							204	45000	6	HOUR	PROOF ROLLING	10
							10,862				174			204	50000	11,036	SY	GEOTEXTILE FABRIC	
																		EROSION CONTROL	
									3	4				601	11000	7	SY	RIPRAP, TYPE D	
						18		32						601	21050	50	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					5				4	2				601	32200	11	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
					2									659	00100	2	EACH	SOIL ANALYSIS TEST	
					1,390						87			659	00300	1,477	CY	TOPSOIL	
					12,519						779			659	10000	13,298	SY	SEEDING AND MULCHING	
					626									659	14000	626	SY	REPAIR SEEDING AND MULCHING	
					626									659	15000	626	SY	INTER-SEEDING	
					1.75						0.11			659	20000	1.86	TON	COMMERCIAL FERTILIZER	
					2.59									659	31000	2.59	ACRE	LIME	
					69						5			659	35000	74	MGAL	WATER	
								343						660	20000	343	SY	SODDING REINFORCED	
								717						670	00700	717	SY	DITCH EROSION PROTECTION	
												LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
												LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
												LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
												45,000		832	30000	45,000	EACH	EROSION CONTROL	
																		DRAINAGE	
								0.86	0.5	0.7				602	20000	2.06	CY	CONCRETE MASONRY	
								3,403						605	06000	3,403	FT	4" BASE PIPE UNDERDRAINS	
								199						611	00410	199	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	
					50									611	00900	50	FT	6" CONDUIT, TYPE B	
					50									611	01400	50	FT	6" CONDUIT, TYPE E	
					50									611	01500	50	FT	6" CONDUIT, TYPE F	
									110					611	05700	110	FT	15" CONDUIT, TYPE A, 706.02	
								35						611	10900	35	FT	24" CONDUIT, TYPE D, 706.02	
										72				611	52300	72	FT	19" X 30" CONDUIT, TYPE A, 706.04	
								16						611	99710	16	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
							1,870							301	56000	1,870	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
							1,699							304	20000	1,706	CY	AGGREGATE BASE	
							917							407	10000	917	GAL	TACK COAT (0.055 GAL/SY)	
							289							441	70000	289	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
							406							441	70300	406	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
														452	10010	15	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
														452	13010	56	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
							403							452	13011	403	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	11
						2,172								609	12000	2,172	FT	COMBINATION CURB AND GUTTER, TYPE 2	
						388								609	18000	388	FT	COMBINATION CURB AND GUTTER, TYPE 3	
						2,910								609	26000	2,910	FT	CURB, TYPE 6	
						405								609	31000	405	FT	COMBINATION CURB AND GUTTER, TYPE 9	
						94								609	33000	94	FT	CURB, TYPE 10	
														609	54000	1,618	SY	6" CONCRETE TRAFFIC ISLAND	
						72								609	98000	72	FT	CURB, MISC.: COMBINATION CURB AND GUTTER TURNOUT	10

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

GENERAL SUMMARY

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:42 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GG001.dgn

DESIGN AGENCY
MPEAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 28 TOTAL 131

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
								89	92	109	110	OFFICE CALCS							
																		SANITARY SEWER	
								4						202	58000	4	EACH	MANHOLE REMOVED (SANITARY SEWER)	
								245						SPECIAL	20270000	245	FT	FILL AND PLUG EXISTING CONDUIT 8" (SANITARY SEWER)	11
								149						SPECIAL	20270000	149	FT	FILL AND PLUG EXISTING CONDUIT 12" (SANITARY SEWER)	11
								142						SPECIAL	20270000	142	FT	FILL AND PLUG EXISTING CONDUIT 18" (SANITARY SEWER)	11
								67						611	01800	67	FT	8" CONDUIT, TYPE B (SANITARY SEWER)	
								387						611	04400	387	FT	12" CONDUIT, TYPE B (SANITARY SEWER)	
								93						611	07400	93	FT	18" CONDUIT, TYPE B (SANITARY SEWER)	
								3						611	99574	3	EACH	MANHOLE, NO. 3 (SANITARY SEWER)	
								1						611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE (SANITARY SEWER)	
																		SANITARY SEWER ALTERNATES	
												125		611	96600	125	FT	CONDUIT, BORED OR JACKED, 12" (SANITARY SEWER)	
																		OTHER UTILITIES	
								2						611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE (TRAFFIC)	
								2						SPECIAL	61199700	2	EACH	GAS VALVE BOX ADJUSTED TO GRADE	
																		WATER WORK	
									204					202	35100	204	FT	PIPE REMOVED, 24" AND UNDER	
									2					202	75610	2	EACH	VALVE BOX REMOVED	
									16					638	00904	16	FT	6" WATER MAIN DUCTILE IRON ANCHORING PIPE AND FITTINGS	
									262					638	02400	262	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
									487					638	03800	487	FT	24" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
									2					638	07800	2	EACH	6" GATE VALVE AND VALVE BOX	
									2					638	08100	2	EACH	12" GATE VALVE AND VALVE BOX	
									2					638	08650	2	EACH	16" INSERTING VALVE AND VALVE BOX	
									2					638	09800	2	EACH	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX	
									2					638	10200	2	EACH	6" FIRE HYDRANT	
									1					638	10300	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE	
									1					638	10480	1	EACH	FIRE HYDRANT REMOVED	
									1					638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
									2					SPECIAL	63820884	2	EACH	CUT AND PLUG EXISTING 12" WATER LINE	92
									2					SPECIAL	63820886	2	EACH	CUT AND PLUG EXISTING 16" WATER LINE	92
									2					638	98000	2	EACH	WATER WORK, MISC.: 16" X 24" TAPPING SLEEVE AND VALVE BOX (HOT TAP)	
																		LIGHTING	
											27			625	00450	27	EACH	CONNECTION, FUSED PULL APART	
											39			625	00480	39	EACH	CONNECTION, UNFUSED PERMANENT	
											12			625	10502	12	EACH	LIGHT POLE (INSTALLATION ONLY)	
											12			625	14100	12	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
											642			625	23200	642	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
											774			625	23400	774	FT	NO. 10 AWG POLE AND BRACKET CABLE	
											1,806			625	24320	1,806	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
											184			625	25500	184	FT	CONDUIT, 3", 725.04	
											12			625	26253	12	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	108
											1,830			625	29000	1,830	FT	TRENCH	
											6			625	30706	6	EACH	PULL BOX, 725.08, 24"	
											13			625	32000	13	EACH	GROUND ROD	
											1			625	34001	1	EACH	POWER SERVICE, AS PER PLAN	108
											1,830			625	36010	1,830	FT	UNDERGROUND WARNING/MARKING TAPE	
											LS			625	38000	LS		HIGH VOLTAGE TEST	
											1			625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL	
										LS				625	98200	LS		LIGHTING, MISC.: TEMPORARY LIGHTING	108

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

GENERAL SUMMARY

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:43 AM USER: lstuller
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GG002.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 29 TOTAL 131

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
						12	13	14	102	103	104	OFFICE CALCS							
																		TRAFFIC CONTROL	
											333			630	02100	333	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
											88			630	03100	88	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
											3			630	08600	3	EACH	SIGN POST REFLECTOR (RED)	
											3			630	79500	3	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
											162			630	80100	162	SF	SIGN, FLAT SHEET	
											18			630	84900	18	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
											6			630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
											17			630	86002	17	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
									0.91	0.44				644	00100	1.35	MILE	EDGE LINE, 4"	
									0.52					644	00300	0.52	MILE	CENTER LINE	
									174					644	00400	174	FT	CHANNELIZING LINE, 8"	
										66				644	00700	66	FT	TRANSVERSE/DIAGONAL LINE (YELLOW)	
									17					644	00720	17	FT	CHEVRON MARKING	
										4				644	01300	4	EACH	LANE ARROW	
									391					644	01520	391	FT	DOTTED LINE, 12"	
										102				644	20800	102	FT	YIELD LINE	
																		LANDSCAPING	
														657	10000	174	SY	RIPRAP FOR TREE PROTECTION	
														661	19000	32	EACH	DECIDUOUS SHRUB, 12" HEIGHT	
														662	31000	384	GAL	LANDSCAPE WATERING	
																		MAINTENANCE OF TRAFFIC	
							94							611	05700	94	FT	15" CONDUIT, TYPE A	
							60							611	10200	60	FT	24" CONDUIT, TYPE A	
							120							614	11110	120	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
								4						614	12384	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	13
							LS							614	12420	LS		DETOUR SIGNING	
							5							614	12500	5	EACH	REPLACEMENT SIGN	
							5							614	12600	5	EACH	REPLACEMENT DRUM	
								44						614	13310	44	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
								0.87						614	21550	0.87	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
								1.69						614	22350	1.69	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
								32						614	26610	32	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
						LS								615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
						3,411								615	25000	3,411	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
							15							616	10000	15	MGAL	WATER	
								2,160						622	41100	2,160	FT	PORTABLE BARRIER, UNANCHORED	
							4,000							644	30000	4,000	FT	REMOVAL OF PAVEMENT MARKING	
																		INCIDENTALS	
												LS		614	11000	LS		MAINTAINING TRAFFIC	
												5		619	16010	5	MNTH	FIELD OFFICE, TYPE B	
												LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS		624	10000	LS		MOBILIZATION	

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

GENERAL SUMMARY

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:44 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GG003.dgn

DESIGN AGENCY
AMPHION STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 PAVEMENT REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 REMOVAL MISC.: METAL T-POSTS	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	609 COMBINATION CURB AND GUTTER, TYPE 2	609 COMBINATION CURB AND GUTTER, TYPE 3	609 CURB, TYPE 6	609 COMBINATION CURB AND GUTTER, TYPE 9	609 CURB, TYPE 10	609 CURB, MISC.: COMBINATION CURB AND GUTTER TURNOUT						
						SY	FT	EACH	SY	FT	FT	FT	FT	FT	FT						
RD-1	37 & 40	EX MITCHELL-DEWITT RD	30+19.69	30+42.42	LT		26														
RD-2	37 & 40	INDUSTRIAL PKWY	1096+83.50	1097+62.20	RT		79														
RD-3	37 & 40	INDUSTRIAL PKWY	1097+39.01	1098+34.02	LT		95														
RD-4	38	EX MITCHELL-DEWITT RD	35+66.65	35+69.98	LT/RT		40														
RP-1	36 - 38 & 40	EX MITCHELL-DEWITT RD	24+20.00	37+37.43	CL	3352															
RP-2	37 & 39 - 40	INDUSTRIAL PKWY	1093+25.00	1097+43.98	CL	1417															
RP-3	37 & 40 - 41	INDUSTRIAL PKWY	1097+75.16	1101+95.00	CL	1366															
RR-1	37 & 40	MITCHELL-DEWITT RD	30+77.19		RT			3													
C-1	36 - 37 & 40	MITCHELL-DEWITT RD	27+21.93	29+79.00	LT				2	240					8						
C-2	36 - 37 & 40	MITCHELL-DEWITT RD	27+19.93	30+23.21	LT/RT							643									
C-3	36 - 37	MITCHELL-DEWITT RD	27+21.93	29+81.72	RT				2	260					8						
C-4	37 & 40	REF LINE NW / INDUSTRIAL PKWY	101+80.16	1095+92.31	LT					153											
C-5	37 & 40	REF LINE NW	101+97.68	103+35.73	LT						151										
C-6	37 & 40	REF LINE SW	400+34.19	401+89.06	RT				2	146					8						
C-7	37 & 40	REF LINE CC	90+00.00	95+18.36	RT								405								
C-8	37 & 40	REF LINE CC	90+00.00	95+18.36	RT							331									
C-9	37 & 40	REF LINE BI-NE	1+00.00	4+73.68	LT							365									
C-10	37 - 38 & 40	MITCHELL-DEWITT RD	31+90.81	34+99.93	LT/RT							684									
C-11	37 & 40	MITCHELL-DEWITT RD	31+81.69	33+68.18	LT				2	203					8						
C-12	37 - 38	MITCHELL-DEWITT RD	33+68.18	34+97.93	LT					137											
C-13	37 - 38	MITCHELL-DEWITT RD	32+76.95	34+97.93	RT					213											
C-14	40, 39 - 40	INDUSTRIAL PKWY	1094+75.00	1096+17.21	LT				2	135					8						
C-15	40, 39 - 40	INDUSTRIAL PKWY	1094+73.00	1096+75.38	LT/RT							443									
C-16	37, 39 - 40	INDUSTRIAL PKWY	1094+75.00	1095+92.31	RT				2	110					8						
C-17	40	REF LINE NE	200+75.84	201+93.96	LT				2	106					8						
C-18	40	REF LINE NE	200+80.14	201+79.16	LT						88										
C-19	37 & 40	REF LINE BI-SE	1+04.43	2+93.52	LT									94							
C-20	37, 40 - 41	INDUSTRIAL PKWY	1098+43.92	1100+47.00	LT/RT							444									
C-21	40 - 41	INDUSTRIAL PKWY	1098+55.49	1100+45.00	RT					193											
C-22	37 & 40	REF LINE SE	300+08.95	302+04.06	RT				2	178					8						
C-23	37 & 40	REF LINE SE	300+27.58	301+80.50	RT						149										
C-24	40 - 41	INDUSTRIAL PKWY	1099+40.94	1100+45.00	LT				2	98					8						
TOTALS CARRIED TO GENERAL SUMMARY						6135	240	3	18	2172	388	2910	405	94	72						

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

ROADWAY SUBSUMMARY

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 04/28/23

PROJECT ID
2022.01156

SHEET 31 TOTAL 129

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:46 AM USER: lstutler
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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	CADD AREAS	204 SUBGRADE COMPACTION	204 EXCAVATION OF SUBGRADE 12"	204 GRANULAR MATERIAL, TYPE B 12"	204 PROOF ROLLING	204 GEOTEXTILE FABRIC	301 ASPHALT CONCRETE BASE, PG64-22, (449) 8"	304 AGGREGATE BASE 6"	407 TACK COAT (0.055 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 1.25"	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) 1.75"	452 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN			
	FT	FT		FT	FT	SF	SF	SY	CY	CY	HOUR	SY	CY	CY	GAL	CY	CY	SY			
	PAVEMENT																				
MITCHELL-DEWITT RD	24+20.00	27+21.93	CL				9486.68								116	37	51				
							9722.79						240								
							9958.96							184							
							10203.94	1134	378	378	0.57	1134									
MITCHELL-DEWITT RD	27+21.93	30+25.40	LT				5143.62						127		63	20	28				
							6594.73							122							
							7223.05	803	268	268	0.40	803									
MITCHELL-DEWITT RD	27+21.93	30+25.40	RT				4464.19						110		55	17	24				
							5846.37							108							
							6512.49	724	241	241	0.36	724									
MITCHELL-DEWITT RD	31+89.83	34+97.93	LT				8638.54						213		106	33	47				
							10679.54							198							
							11778.61	1309	436	436	0.65	1309									
MITCHELL-DEWITT RD	31+89.83	34+97.93	RT				4833.00						119		59	19	26				
							6137.88							114							
							6746.93	750	250	250	0.37	750									
MITCHELL-DEWITT RD	34+97.93	37+57.12	CL				8240.43								101	32	45				
							8499.72						210								
							8763.70							162							
							9026.32	1003	334	334	0.50	1003									
INDUSTRIAL PKWY	1093+25.00	1094+75.00	CL				5143.13								63	20	28				
							5293.22						131								
							5448.05							101							
							5601.56	622	207	207	0.31	622									
INDUSTRIAL PKWY	1094+75.00	1096+77.38	LT				3226.64						80		39	12	17				
							4143.55							77							
							4552.18	506	169	169	0.25	506									
INDUSTRIAL PKWY	1094+75.00	1096+77.38	RT				3120.76						77		38	12	17				
							4305.55							80							
							4722.09	525	175	175	0.26	525									
INDUSTRIAL PKWY	1098+44.01	1100+45.00	LT				5737.05						142		70	22	31				
							7022.31							130							
							7561.54	840	280	280	0.42	840									
INDUSTRIAL PKWY	1098+44.01	1100+45.00	RT				3425.26						85		42	13	19				
							4440.50							82							
							4918.55	547	182	182	0.27	547									
INDUSTRIAL PKWY	1100+45.00	1101+95.00	CL				5140.36								63	20	28				
							5290.38						131								
							5445.21							101							
							5600.13	622	207	207	0.31	622									
REF LINE CC	90+00.00	95+18.36	RT				3628.54											403			
							8312.65						205		102	32	45				
							12969.64							240							
							13291.10	1477	492	492	0.74	1477									
TOTALS CARRIED TO GENERAL SUMMARY								10862	3619	3619	6	10862	1870	1699	917	289	406	403			

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:47 AM USER: lstuller
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PAVEMENT SUBSUMMARY

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 32 TOTAL 131

ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	CADD AREAS	304 AGGREGATE BASE 6"	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	452 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	609 6" CONCRETE TRAFFIC ISLAND										
				FT	FT	SF	SF	CY	SY	SY	SY										
	PAVEMENT (CONTINUED)																				
REF LINE NW	102+19.95	103+04.67	LT				271.84			30											
REF LINE NE	201+07.48	201+50.27	LT				61.19			7											
REF LINE SE	300+81.75	301+56.22	RT				167.18			19											
MITCHELL-DEWITT RD	27+20.43	30+22.82	LT/RT				1542.29				171										
MITCHELL-DEWITT RD	31+91.31	34+99.43	LT/RT				6591.96				732										
REF LINE BI-NE	1+00.00	4+73.20	LT				3784.20				420										
INDUSTRIAL PKWY	1094+73.50	1096+74.79	LT/RT				1241.96				138										
INDUSTRIAL PKWY	1098+44.51	110+46.50	LT/RT				1244.06				138										
REF LINE BI-SE	1+00.00	2+93.01	LT				171.72				19										
	DRIVES																				
INDUSTRIAL PKWY	1099+50.20	1099+73.71	LT	29.58	12.00	354.96	134.81	7	15												
TOTALS CARRIED TO GENERAL SUMMARY								7	15	56	1618										

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

PAVEMENT SUBSUMMARY

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:48 AM USER: lstuller
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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 33 TOTAL 131

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	203 ROADWAY, MISC.: GRASS PAVERS		601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT		602 CONCRETE MASONRY	605 4" BASE PIPE UNDERDRAINS	611 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET		611 24" CONDUIT, TYPE D, 706.02	611 PRECAST REINFORCED CONCRETE OUTLET	660 SODDING REINFORCED	670 DITCH EROSION PROTECTION			FOR INFORMATION ONLY 4" END CAP	4" X 90° BEND	4" X 45° BEND	4" X 4" TEE
						SY		SY		CY	FT	FT		FT	EACH	SY	SY			EACH	EACH	EACH	EACH
D-1	40	INDUSTRIAL PKWY	1099+49.00	1099+70.00	LT					0.86				35									
E-1	36 - 37	MITCHELL-DEWITT RD	25+52.00	29+83.22	LT												349						
E-2	36 - 37	MITCHELL-DEWITT RD	27+21.93	28+87.58	LT	71																	
E-3	36 - 37	MITCHELL-DEWITT RD	27+21.93	29+74.84	RT	117																	
E-4	37 & 40	INDUSTRIAL PKWY	1097+26.29	1099+66.54	RT											230							
E-5	37, 39 - 40	INDUSTRIAL PKWY	1094+10.00	1096+57.45	RT												242						
E-6	37 - 38	MITCHELL-DEWITT RD	33+27.08	34+97.93	RT	73																	
E-7	37 - 38	MITCHELL-DEWITT RD	33+67.46	34+97.93	LT	62																	
E-8	38	MITCHELL-DEWITT RD	34+87.93	36+40.00	RT												126						
E-9	39 - 40	INDUSTRIAL PKWY	1094+75.00	1096+10.75	LT	60																	
E-10	39 - 40	INDUSTRIAL PKWY	1094+75.00	1096+19.50	RT	64																	
E-11	39	INDUSTRIAL PKWY	1095+00.05	1096+39.95	LT											113							
E-12	40 - 41	INDUSTRIAL PKWY	1098+54.68	1100+45.00	RT	86																	
E-13	41	INDUSTRIAL PKWY	1100+00.00	1100+45.00	LT	20																	
UD-1	36 - 37	MITCHELL-DEWITT RD	24+66.89	29+73.58	RT			2			511	10			1					1	1		
UD-2	36 - 37	MITCHELL-DEWITT RD	25+50.00	29+70.74	LT			2			414	10			1					1	1		
UD-3	37 & 40	REF LINE SW	400+34.19	401+80.94	RT			2			145	12			1					1	1		
UD-4	40 - 41	INDUSTRIAL PKWY	1098+55.69	1101+85.02	RT			2			333	10			1					1	1		
UD-5	40 - 41	INDUSTRIAL PKWY	1099+50.30	1101+85.02	LT			2			236	14			1					1	1		
UD-6	37 & 40	REF LINE SE	300+08.95	301+44.76	RT			2			126	16			1					1	1		
UD-7	37 & 40	REF LINE SE	301+44.76	301+95.94	RT			2			50	23			1					1	1		
UD-8	37 - 38	MITCHELL-DEWITT RD	32+77.10	34+78.30	RT			2			194	14			1					1	1		
UD-9	38	MITCHELL-DEWITT RD	34+97.93	36+19.19	RT			2			123	10			1					1	1		
UD-10	38	MITCHELL-DEWITT RD	34+97.93	36+47.93	LT			2			147	10			1					1	1		
UD-11	37 - 38	MITCHELL-DEWITT RD	33+68.36	34+80.03	LT			2			119	12			1					1	1		
UD-12	37 & 40	REF LINE NE	201+93.96	203+96.00	LT			2			203	10			1					1	1		
UD-13	37 & 40	REF LINE NE	200+75.84	201+86.04	LT			2			105	11			1					1	1		
UD-14	39 - 40	INDUSTRIAL PKWY	1093+25.00	1096+09.20	LT			2			285	10			1					1	1		
UD-15	39 - 40	INDUSTRIAL PKWY	1093+25.00	1095+84.41	RT			2			260	13			1					1	1		
UD-16	37 & 40	REF LINE NW	101+80.16	103+35.73	LT			2			152	14			1					1	1		
TOTALS CARRIED TO GENERAL SUMMARY						553		32		0.86	3403	199		35	16	343	717						

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

DRAINAGE AND EROSION CONTROL SUBSUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 34 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:49 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:29:58 AM USER: lstutler
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HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN

℄ CONST. & R/W INDUSTRIAL PKWY

℄ R/W MITCHELL CROSSING DR

VEGETATED BIOFILTER

℄ R/W MITCHELL DEWITT RD

VEGETATED BIOFILTER

VEGETATED BIOFILTER

℄ CONST. MITCHELL DEWITT RD

PROP. 15" TYPE A CULVERT

℄ CONST. MITCHELL DEWITT RD

PROP. 19" X 30" TYPE A CULVERT

VEGETATED BIOFILTER

℄ R/W MITCHELL DEWITT RD

PR. 24" TYPE D

℄ CONST. & R/W INDUSTRIAL PKWY

USGS MAP: SHAWNEE HILLS QUADRANGLE
SHAWNEE HILLS, OH

LATITUDE: 40° 08' 32" N
LONGITUDE: 83° 12' 56" W

* LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT

BMP SUMMARY

BMP TYPE	LOCATION				BMP WIDTH	Contributing Drainage Area	EDA TREATMENT CREDIT
	ALIGNMENT	BEGIN		END			
		STATION	OFFSET	STATION	OFFSET	(FEET)	(ACRES)	(ACRES)
VEGETATED BIOFILTER	MITCHELL-DEWITT RD	25+50	25.8' LT	27+20	27.3' LT	4.00	0.32	0.19
VEGETATED BIOFILTER	MITCHELL-DEWITT RD	27+20	27.3' LT	101+90	59.1' LT	4.00	0.60	0.29
VEGETATED BIOFILTER	INDUSTRIAL PKWY	1094+10	29.8' RT	101+90	96.8' RT	4.00	2.52	0.96
VEGETATED BIOFILTER	MITCHELL-DEWITT RD	36+40	39.6' LT	34+88	25.4' LT	4.00	0.41	0.41
						TREATMENT PROVIDED:		1.84
						TREATMENT REQUIRED*		1.81

*CALCULATED PER L&D VOL. 2, SEC 1115.7

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RECONSTRUCTING THE INTERSECTION OF INDUSTRIAL PKWY AND MITCHELL-DEWITT RD FROM A STOP-CONTROLLED INTERSECTION TO A SINGLE-LANE ROUNDABOUT WITH CURB AND GUTTER, DRAINAGE IMPROVEMENTS, LIGHTING TRAFFIC CONTROL AND NECESSARY UTILITY RELOCATION. EXISTING DRAINAGE OF THE PROJECT AREA CONSISTS OF ROADSIDE DITCHES AND A LIMITED NUMBER OF CULVERTS TO CONNECT THE DITCHED ON THE NORTH SIDE OF MITCHELL-DEWITT RD TO THE DITCHES ON THE SOUTH SIDE.

PROJECT DATA	
TOTAL AREA (RIGHT-OF-WAY)	13.540 ACRES
PROJECT EARTH DISTURBED AREA	5.051 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.530 ACRES
NOTICE OF INTENT EARTH DISTURBED	5.581 ACRES
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	9.949 ACRES
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	9.949 ACRES
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.79
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.79
IMMEDIATE RECEIVING WATER:	NORTH FORK INDIAN
SUBSEQUENT RECEIVING	SCIOTO RIVER
POST CONSTRUCTION BMP:	VEGETATED BIOFILTER

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 35 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:08 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GP101.dgn

PID: 1700220270210
MALLIPEDDI SUMANTH
0.30 AC.

PID: 1700220290010
MITCHELL CROSSING HOA
3.09 AC.

PID: 1700220290230
MITCHELL CROSSING HOA
9.36 AC.

PID: 1500220370010
MITCHELL FARMS LLC
109.40 AC.

CULTIVATED FIELD

GRASS

ASPH

CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'
PRC = STA 27+21.93

CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'

NOTES:
FOR QUANTITIES SEE SHEETS 31 - 34
FOR ROUNDABOUT DETAILS SEE SHEET 80
FOR SANITARY SEWER PROFILE SEE SHEET 91

TBR - TO BE REMOVED
FIP - FILL IN PLACE

LEGEND

- (A) *ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET, PER DM-1.1*
  ITEM 601 - TIED CONCRETE BLOCK MAT, WITH TYPE 1 UNDERLAYMENT
- *ITEM 660 - SODDING, DITCH PROTECTION, 7.5' WIDE*
- *ITEM 670 - DITCH EROSION PROTECTION, 7.5' WIDE*
- *ITEM SPECIAL - GRASS PAVERS, 4.0' WIDE*
- *ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN*

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MITCHELL-DEWITT RD
STA 23+00.00 TO STA 28+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	36
TOTAL	131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:12 AM USER: lstutler
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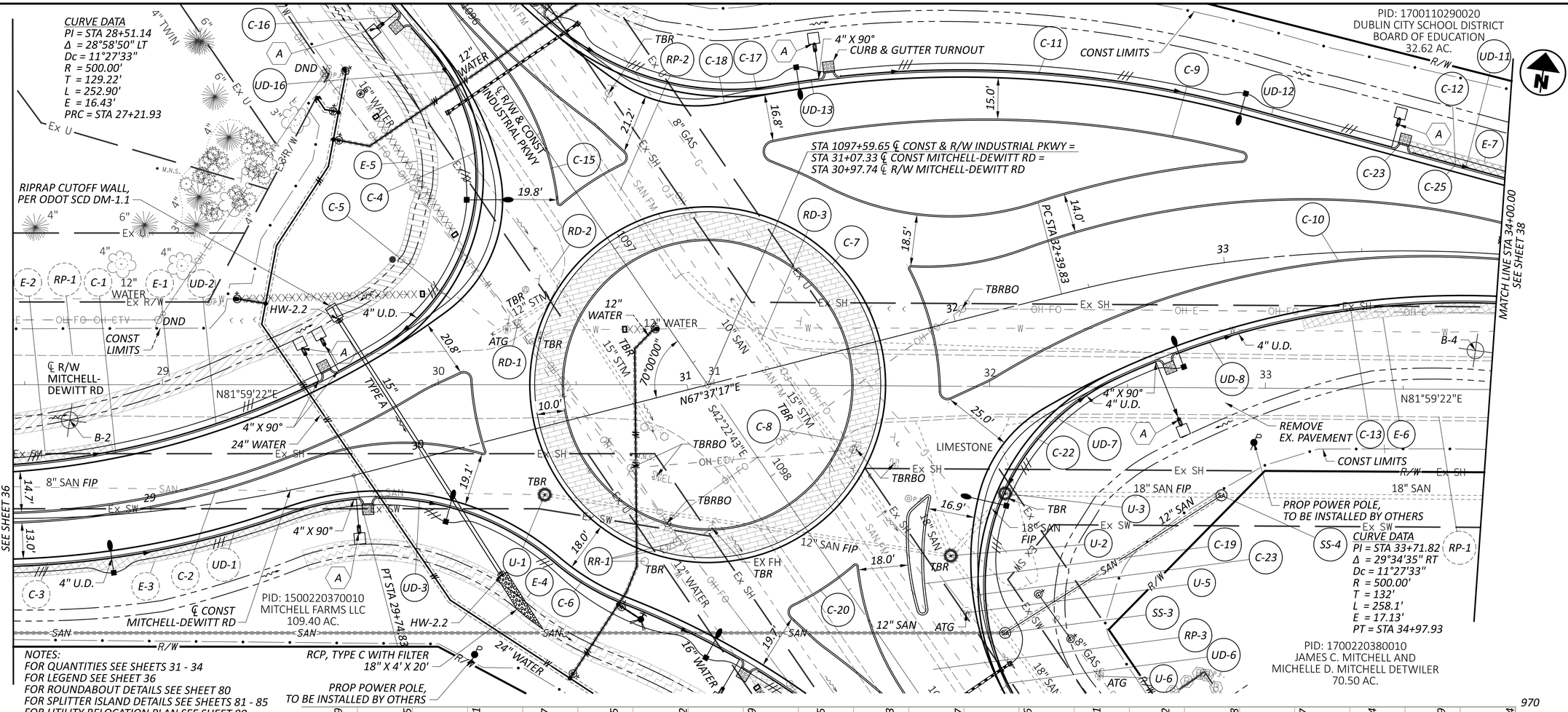
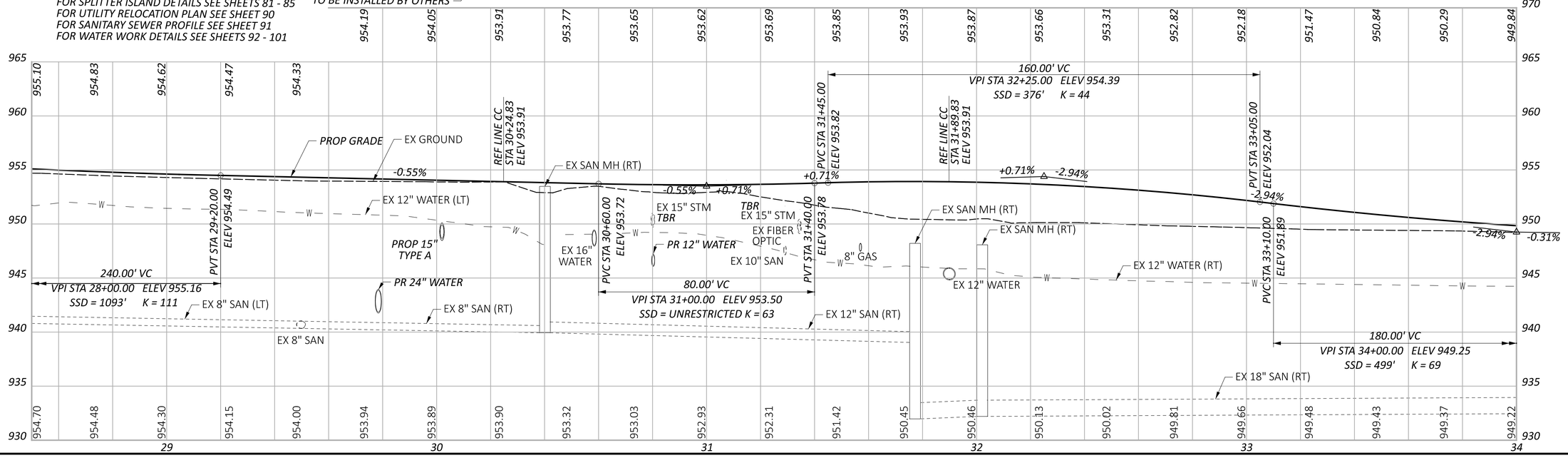


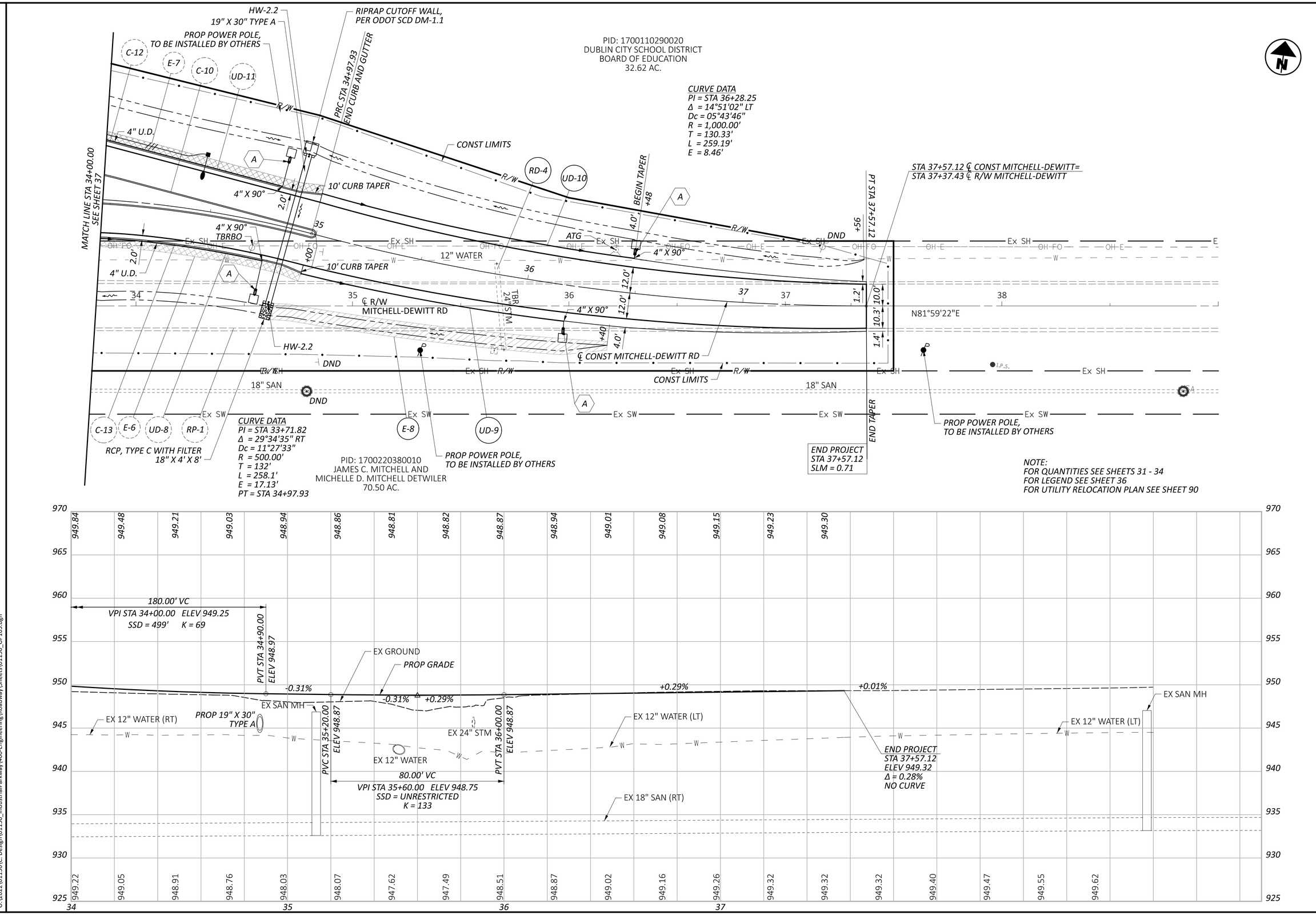


HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MITCHELL-DEWITT RD
STA 28+50.00 TO STA 34+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	37
TOTAL	131



HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - MITCHELL-DEWITT RD
STA 34+00.00 TO STA 39+00.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:16 AM USER: lstutler
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DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 38 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:22 AM USER: lstutler
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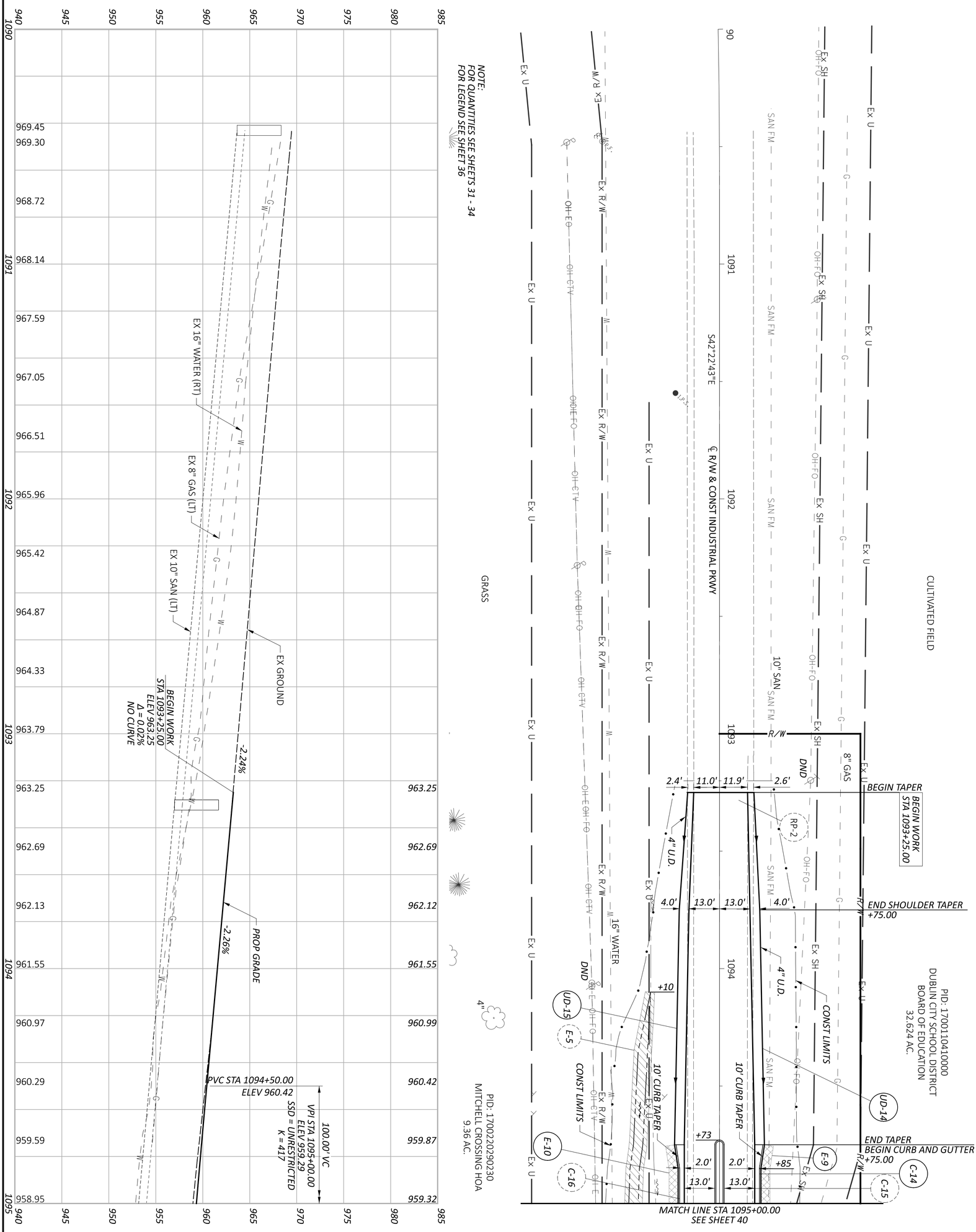

SHEET 39	TOTAL 131	PROJECT ID 2022.01156	REVIEWER KAM 06/02/23	DESIGNER LZS
DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.				

PLAN AND PROFILE - INDUSTRIAL PKWY
STA 1090+00.00 TO STA 1095+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:27 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GP202.dgn

PID: 1700110410000
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION
32.624 AC.

PID: 1500220370010
MITCHELL FARMS LLC
109.40 AC.

MATCH LINE STA 1095+00.00
SEE SHEET 39

MATCH LINE STA 1100+00.00
SEE SHEET 41

STA 1096+37.72
55.47' LT.

STA 1097+59.65 ℄ CONST & R/W INDUSTRIAL PKWY=
STA 31+07.33 ℄ CONST MITCHELL-DEWITT RD =
STA 30+97.74 ℄ R/W MITCHELL-DEWITT RD

℄ R/W & CONST INDUSTRIAL PKWY

℄ CONST MITCHELL -DEWITT RD

℄ R/W MITCHELL-DEWITT RD

CONST LIMITS 4" X 90°

CURB & GUTTER TURNOUT

RIPRAP CUTOFF WALL, PER ODOT SCD DM-1.1

METAL T-POST

PROP POWER POLE, TO BE INSTALLED BY OTHERS

BEGIN TAPER +50.00

END TAPER +00.00

PR 1 STA 29+71.00

NOTES:
FOR QUANTITIES SEE SHETS 31 - 34
FOR LEGEND SEE SHEET 36
FOR ROUNDABOUT DETAILS SEE SHEET 80
FOR SPLITTER ISLAND DETAILS SEE SHEETS 81 - 85
FOR DRIVE DETAILS SEE SHEET 86
FOR UITLITY RELOCATION PLAN SEE SHEET 90
FOR SANITARY SEWER PROFILE SEE SHEET 91
FOR WATER WORK DETAILS SEE SHEETS 92 - 10.

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - INDUSTRIAL PKWY
STA 1095+00.00 TO STA 1100+00.00

100.00' VC
VPI STA 1095+00.00
ELEV 959.29
SSD = UNRESTRICTED
K = 417

PVT STA 1095+50.00
ELEV 958.29

REF LINE CC
STA 1096+77.15
ELEV 955.72

100.00' VC
VPI STA 1097+80.00 ELEV 953.65
SSD = 2728' K = 250

PVC STA 1097+30.00
ELEV 954.66

PVT STA 1098+30.00
ELEV 952.44

REF LINE CC
STA 1098+42.15
ELEV 952.15

150.00' VC
VPI STA 1099+80.00 ELEV 948.81
SSD = UNRESTRICTED
K = 87

PVC STA 1099+05.00
ELEV 950.63

-2.26% -2.02% -2.02% -2.02% -2.42% -2.42% -0.70%

EX GROUND
PROP GRADE
EX FIBER OPTICS (LT)
EX 15" STM (RT)
EX 15" STM (LT)
EX 8" GAS (LT)
EX 16" WATER (RT)
PROP. 12" WATER
EX 10" SAN (LT)
EX 16" WATER (RT)
EX 12" WATER
EX SAN MH (LT)
EX 12" SAN
EX 6" GAS (LT)
PR 12" SAN

959.32 958.80 958.29 957.78 957.28 956.77 956.27 955.77 955.26 954.76 954.25 953.71 953.15 952.56 951.96 951.35 950.75 950.17 949.66 949.22 948.85
958.95 958.34 957.74 957.16 956.59 956.03 955.48 954.94 954.39 953.82 953.23 952.66 952.08 951.52 950.96 950.46 949.97 949.53 949.14 948.79 948.51
970 965 960 955 950 945 940 935 930
1095 1096 1097 1098 1099 1100

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 40 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:31 AM USER: lstutler
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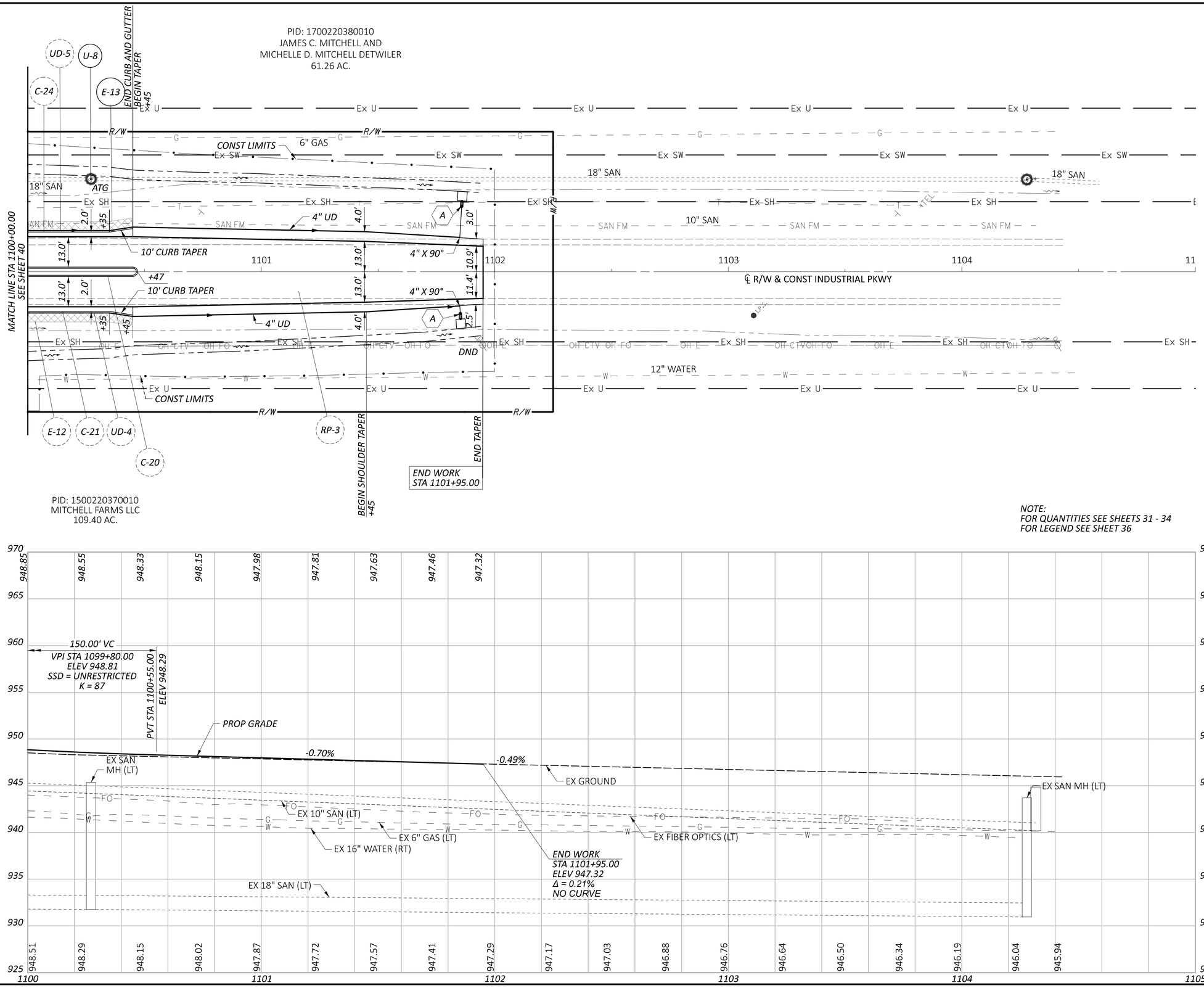

NOTE:
FOR QUANTITIES SEE SHEETS 31 - 34
FOR LEGEND SEE SHEET 36

HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - INDUSTRIAL PKWY
STA 1100+00.00 TO STA 1105+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	41
TOTAL	131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 01 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:38 AM USER: lstutler
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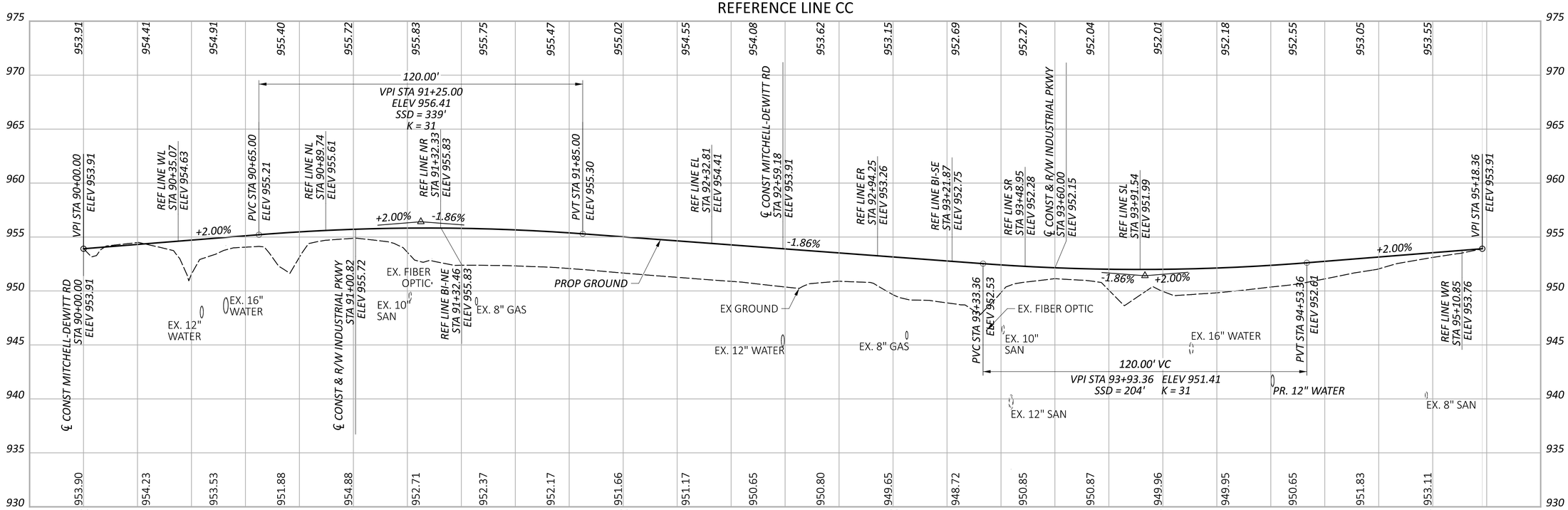
REFERENCE LINE CC



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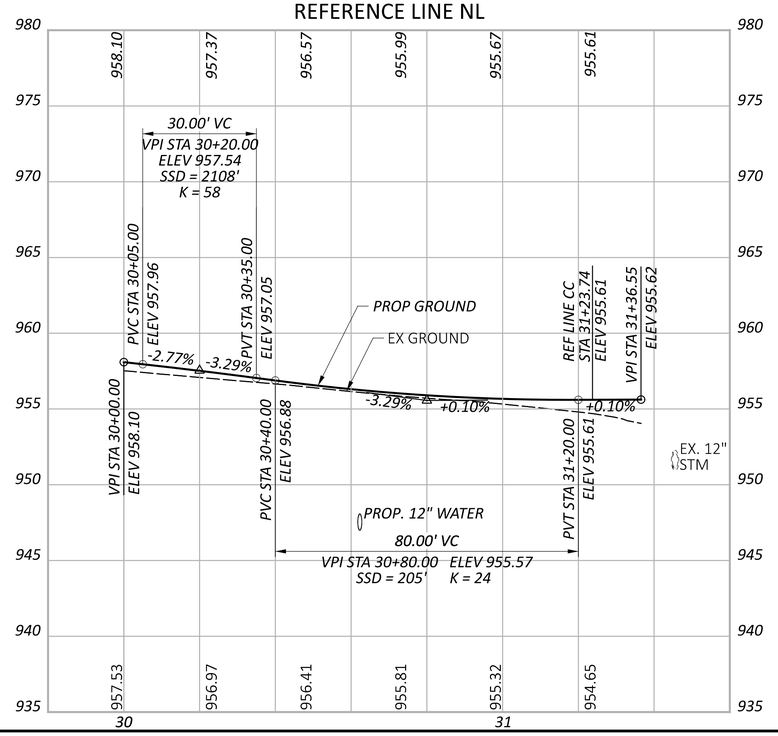

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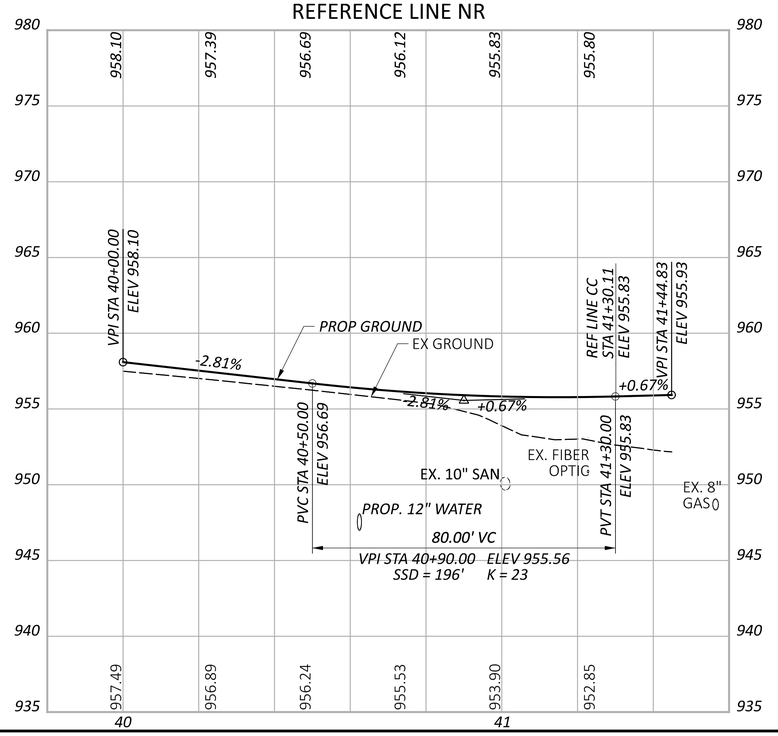

REFERENCE LINE PROFILES
CC, NL, NR

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 42 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 02 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:42 AM USER: lstutler
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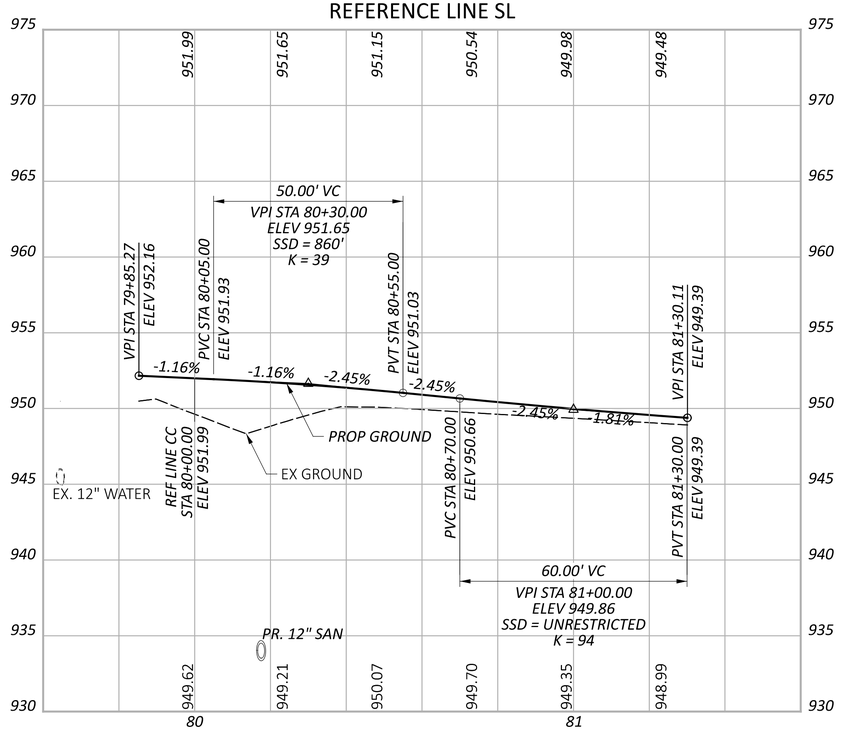
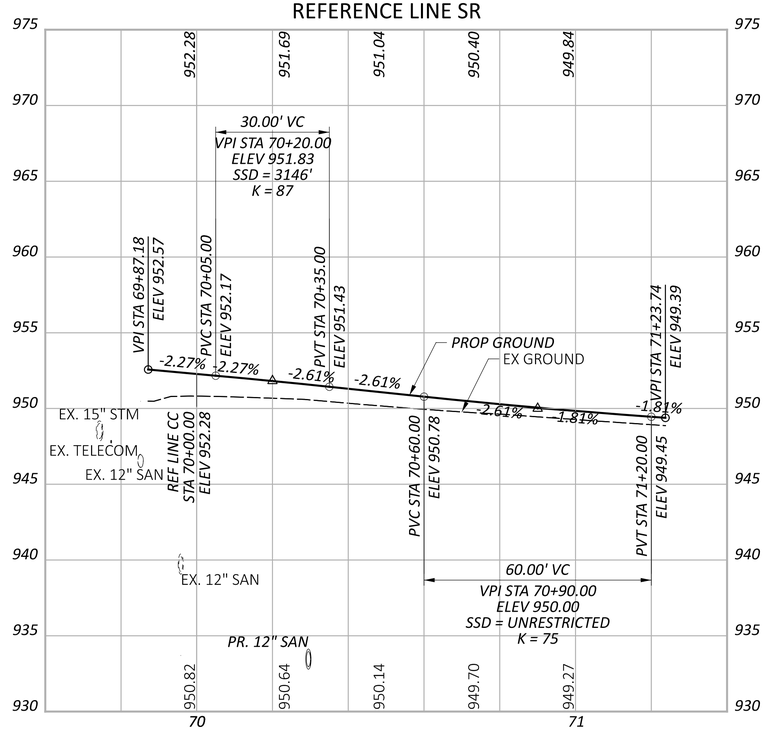
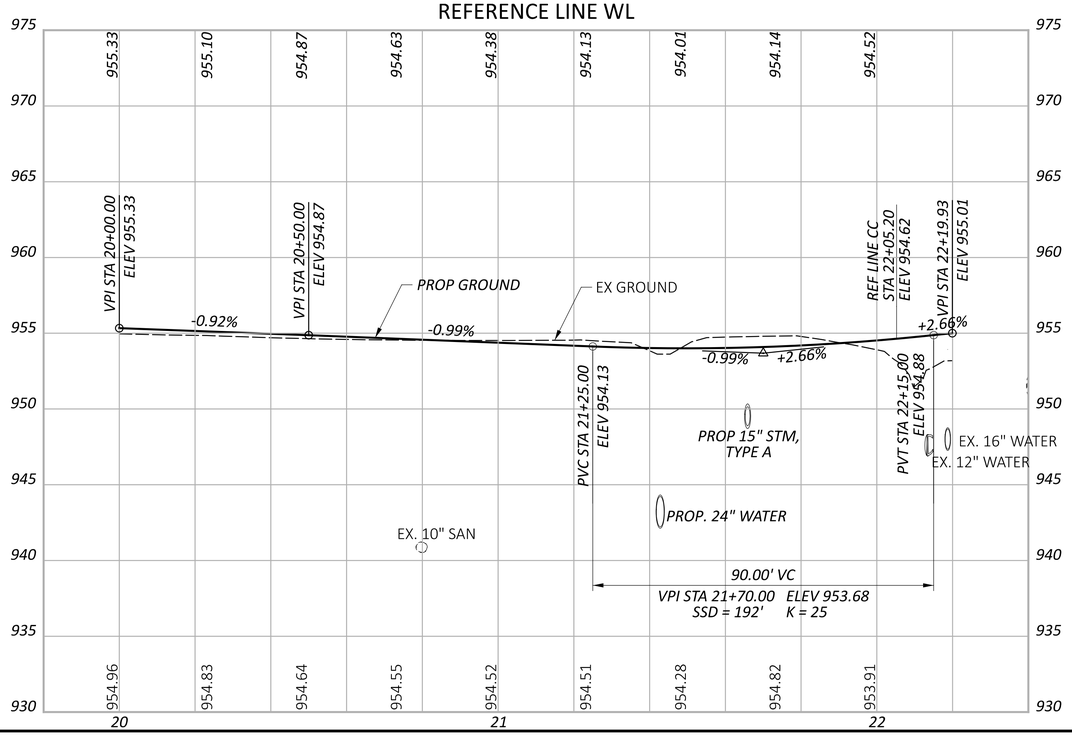
REFERENCE LINE SL



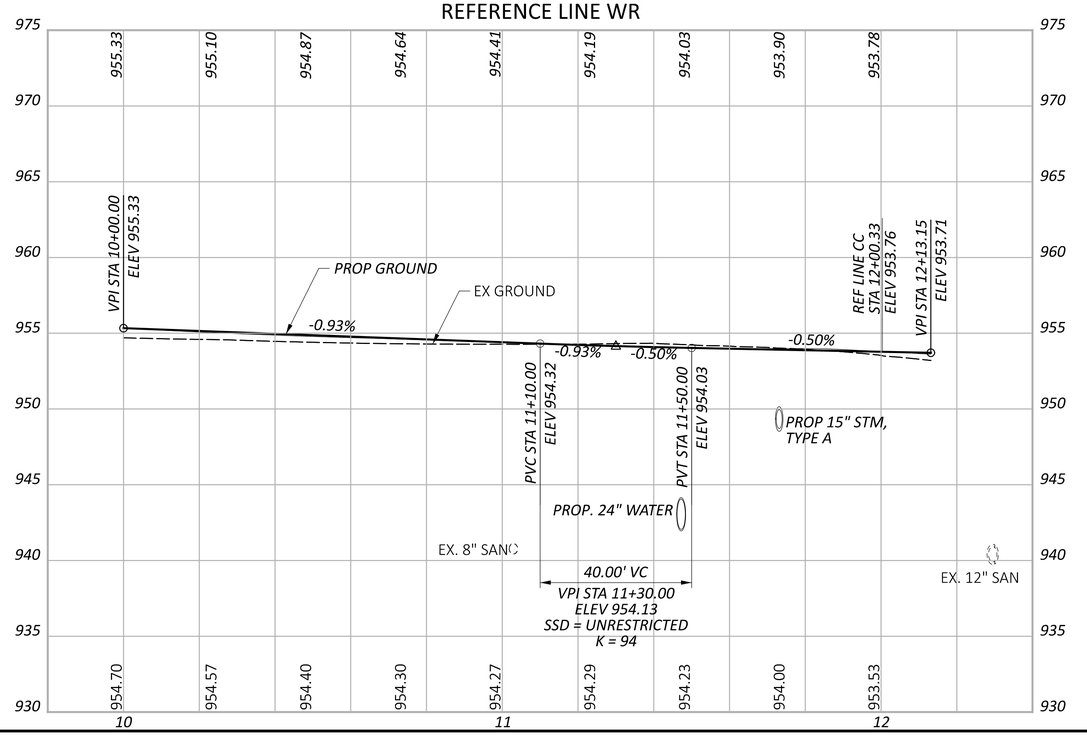
REFERENCE LINE SR



REFERENCE LINE WL



REFERENCE LINE WR



REFERENCE LINE PROFILES
SL, SR, WL, WR

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

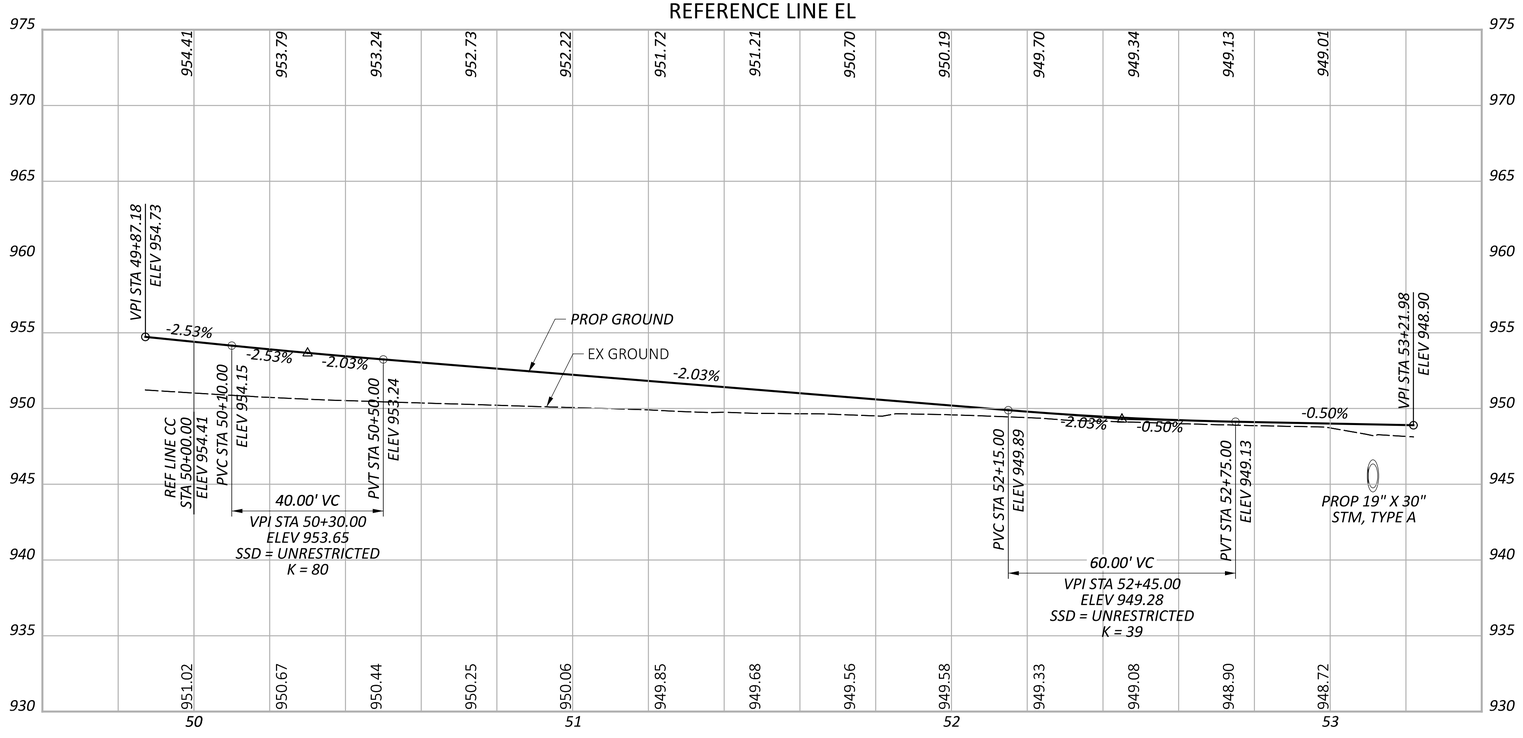
PROJECT ID
2022.01156

SHEET 43 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 03 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:44 AM USER: lstuller
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GF001.dgn

REFERENCE LINE EL



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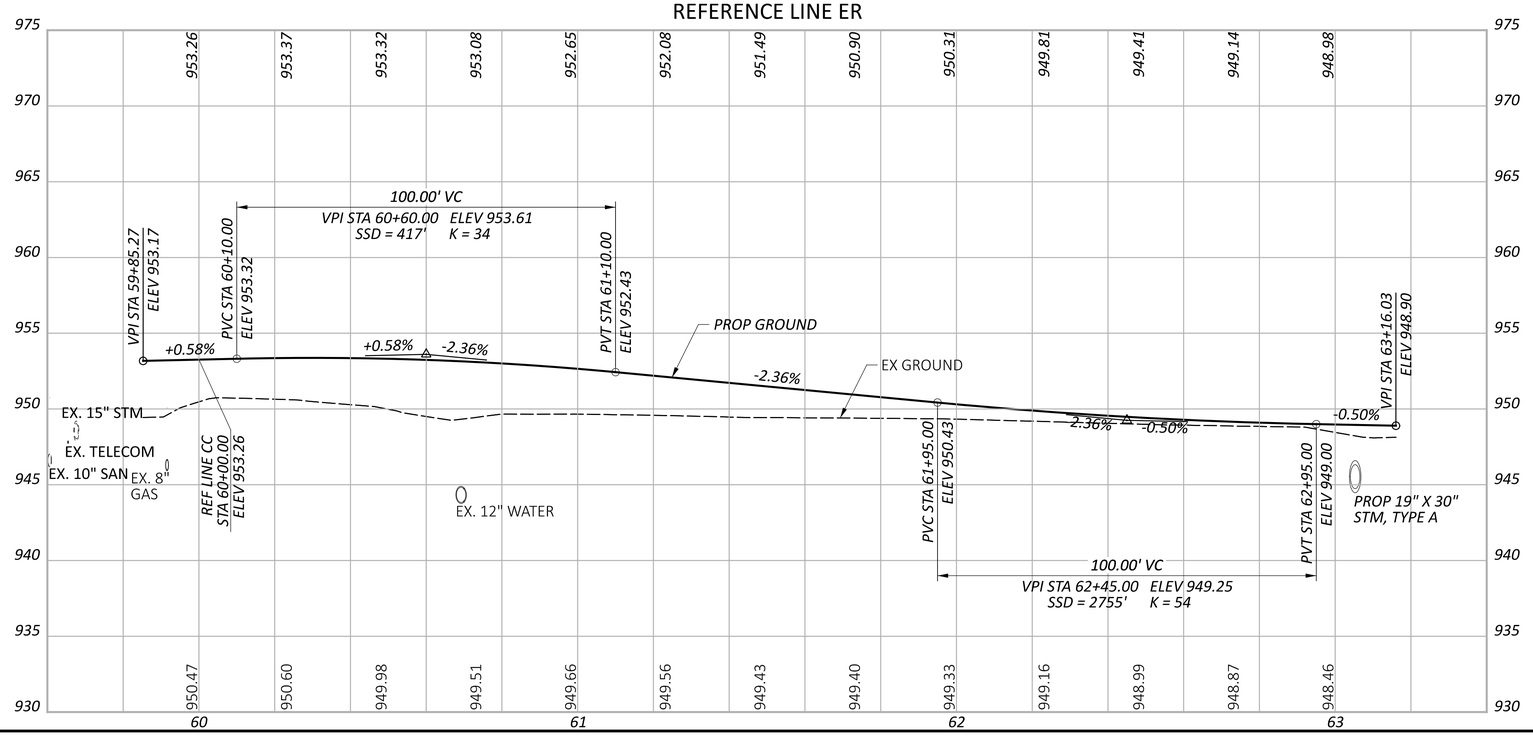

REFERENCE LINE PROFILES
EL, ER

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 44 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 04 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:46 AM USER: istutler
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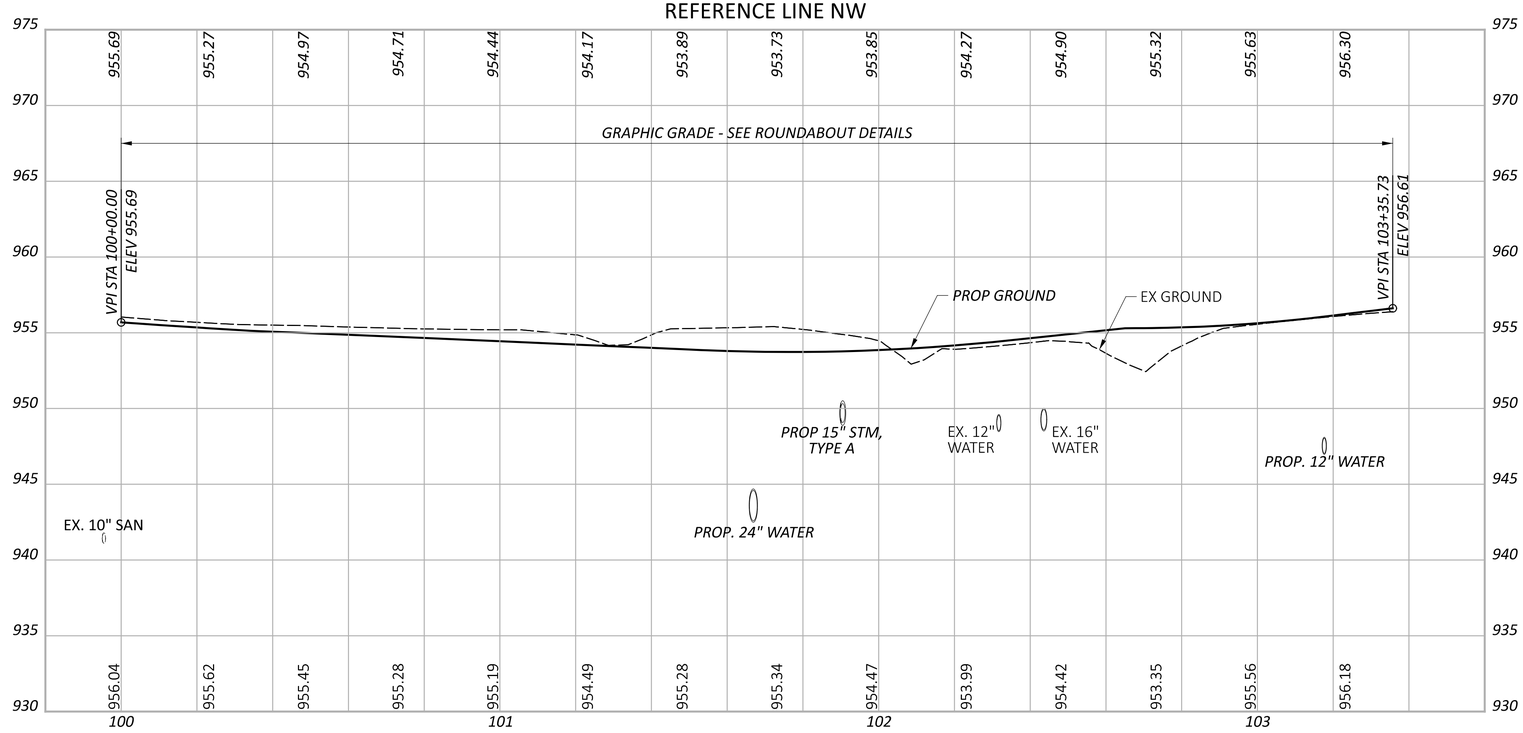
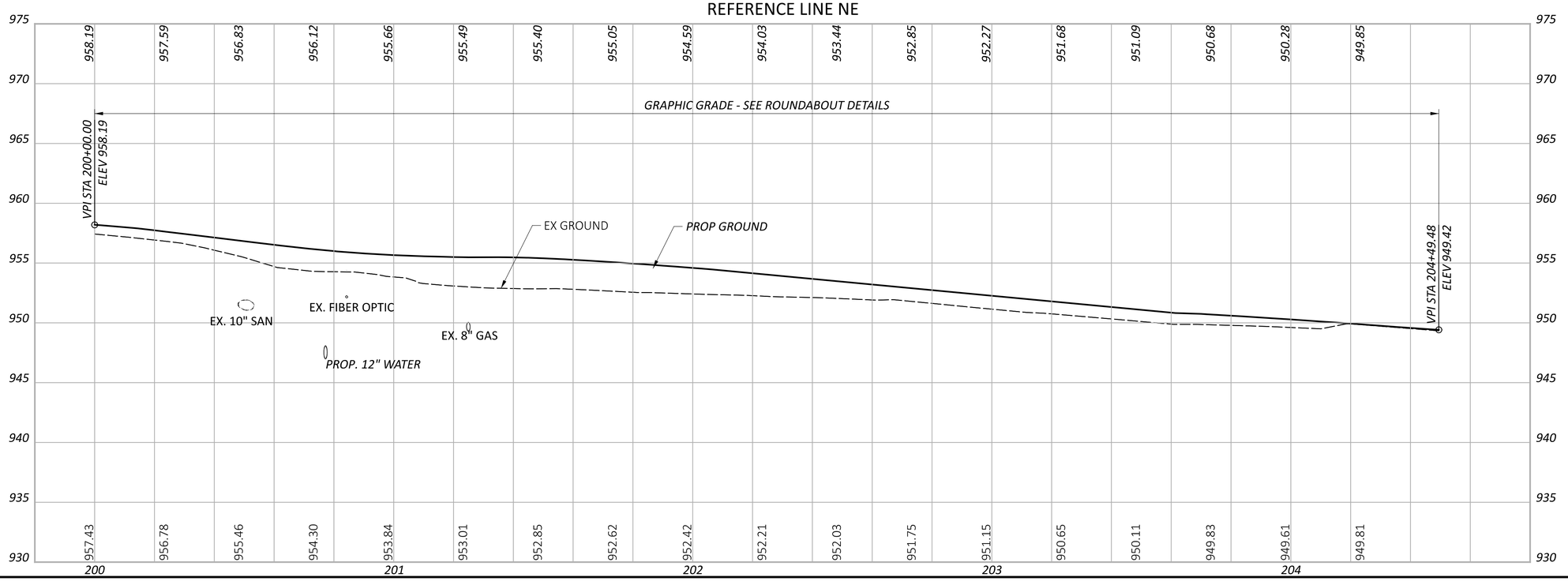
REFERENCE LINE NW



REFERENCE LINE NE



REFERENCE LINE PROFILES NW, NE

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 45 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 05 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:48 AM USER: lstutler
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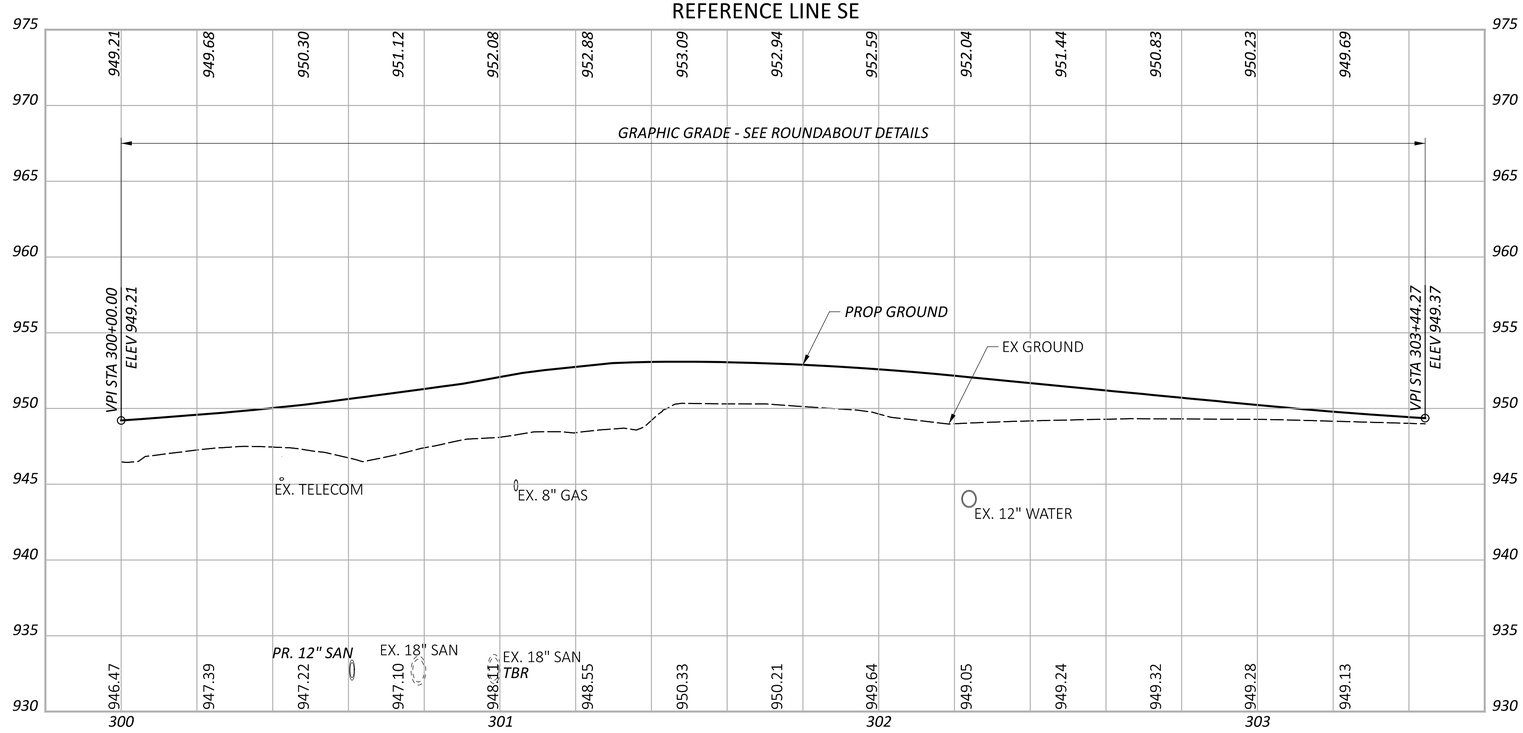
REFERENCE LINE SE



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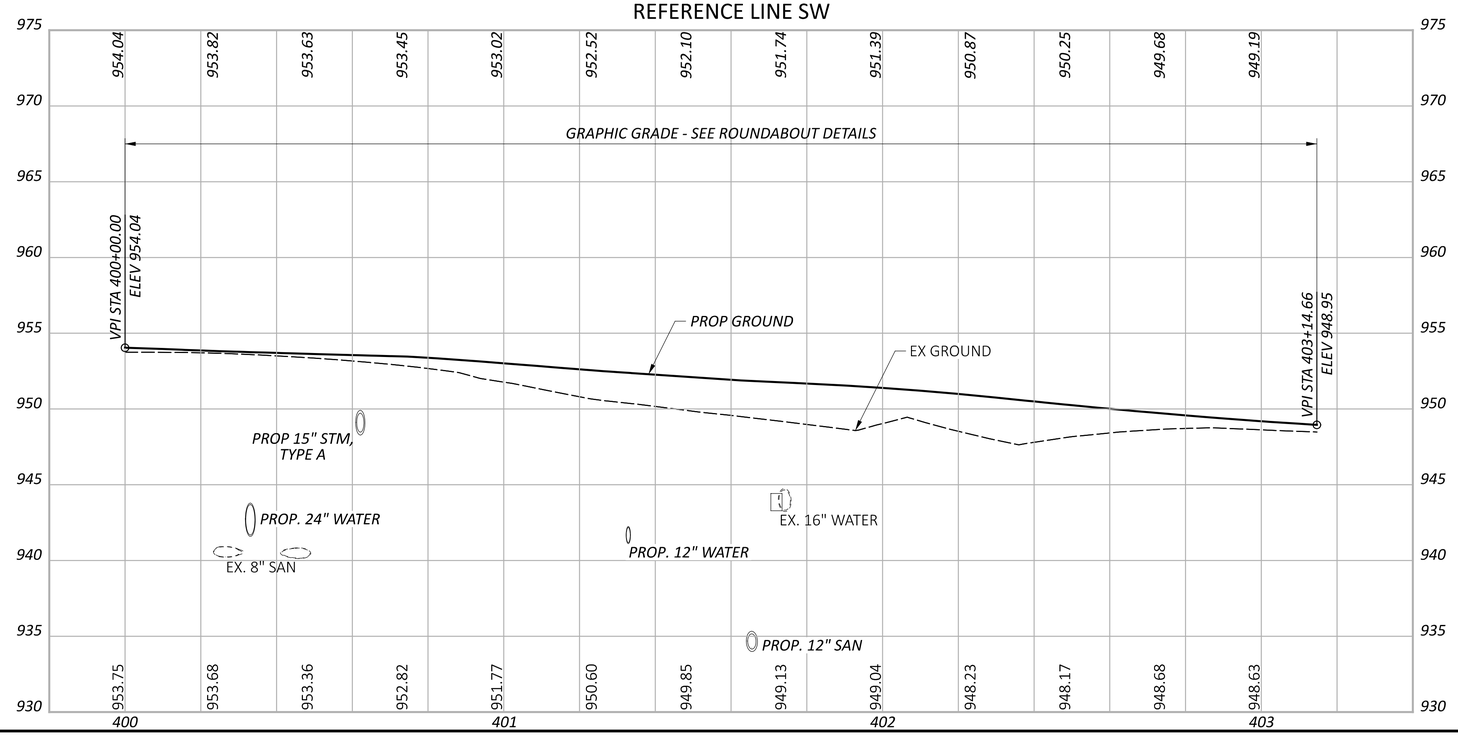

REFERENCE LINE PROFILES
SW, SE

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 46 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 06 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:30:49 AM USER: lstutler
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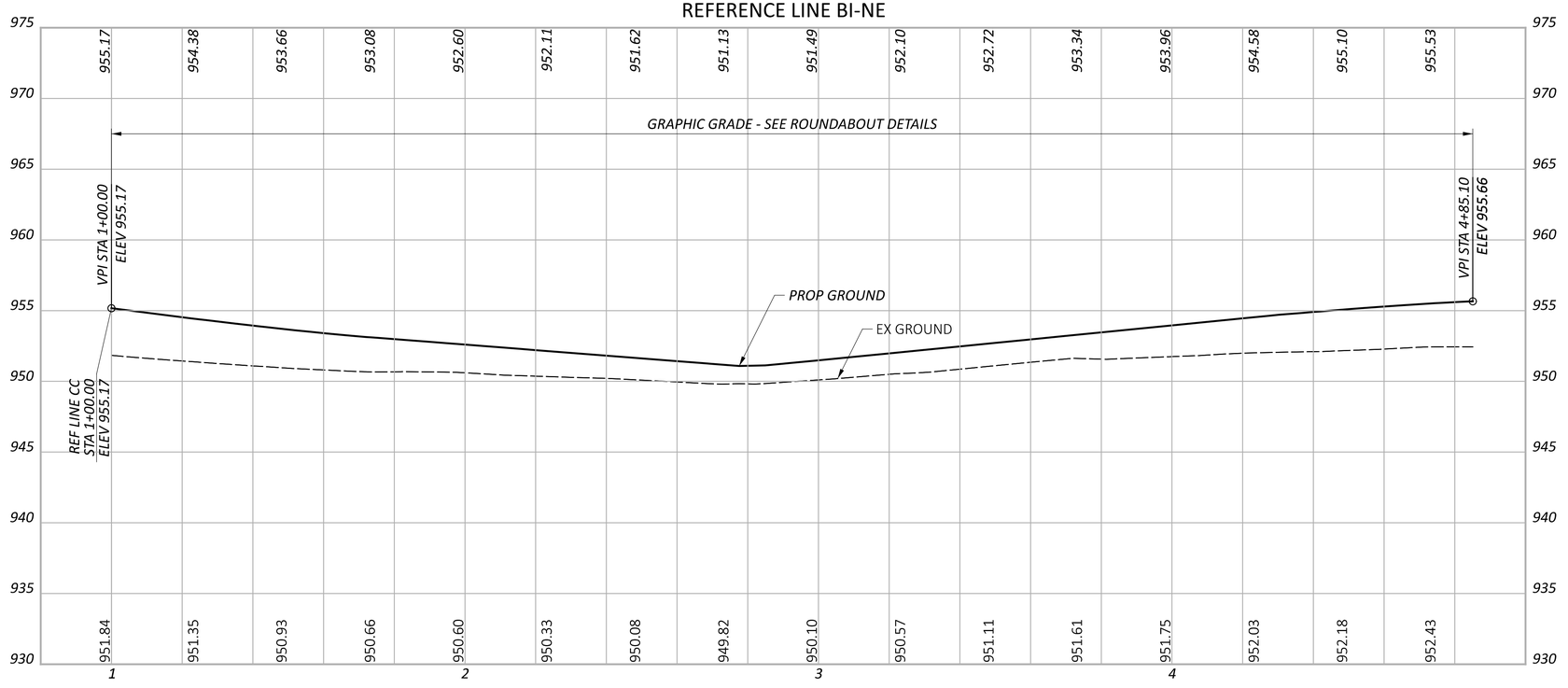
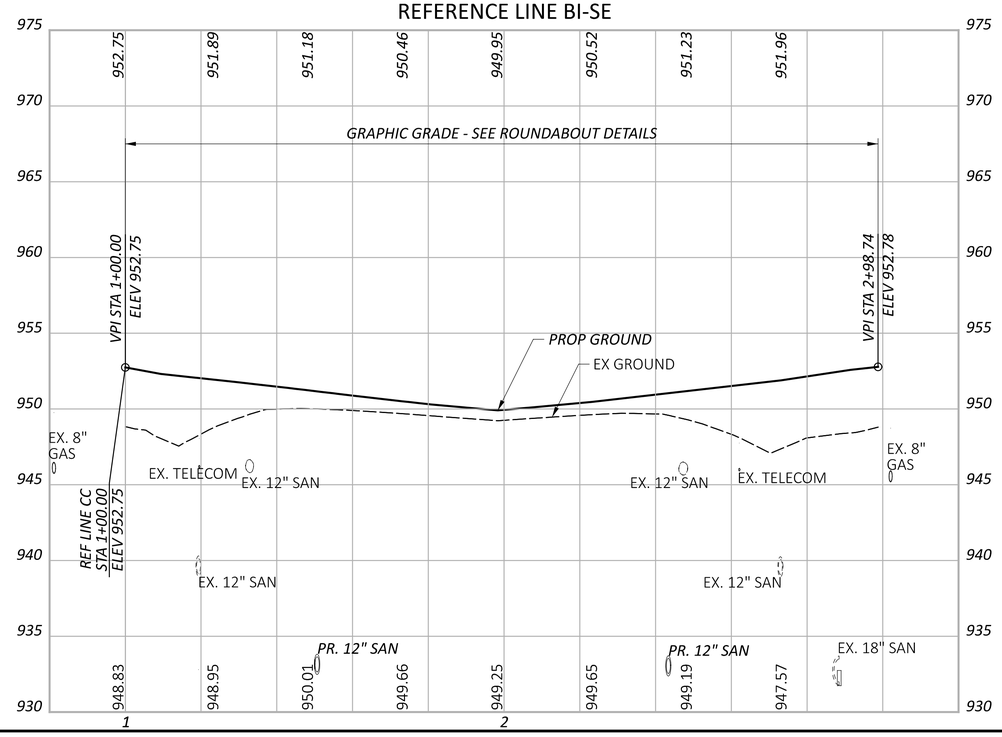
REFERENCE LINE BI-NE



REFERENCE LINE BI-SE



REFERENCE LINE PROFILES
BI-NE, BI-SE

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 47 TOTAL 131

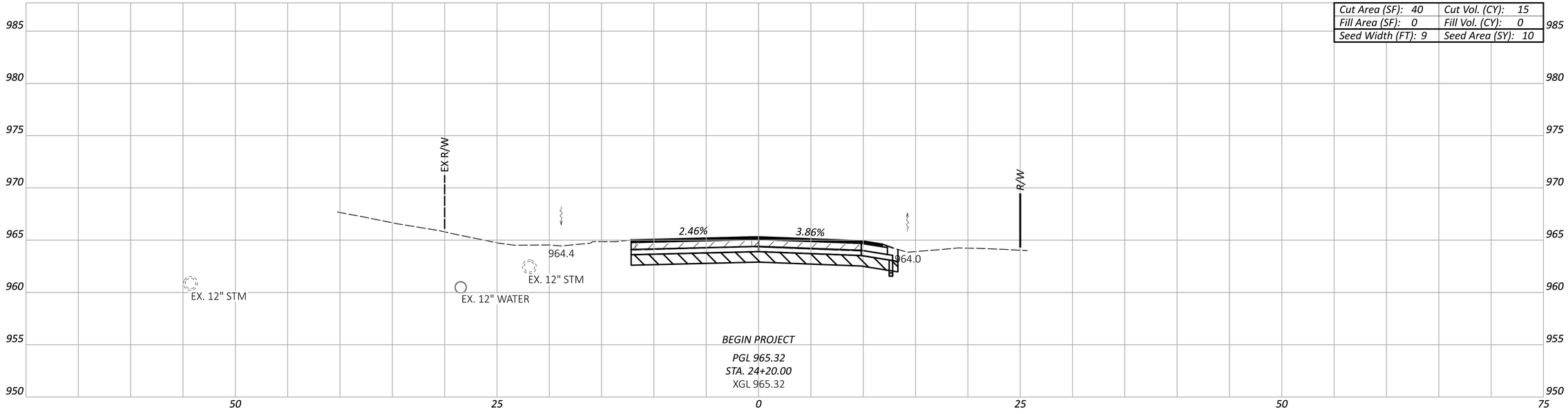
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 01 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:03 AM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

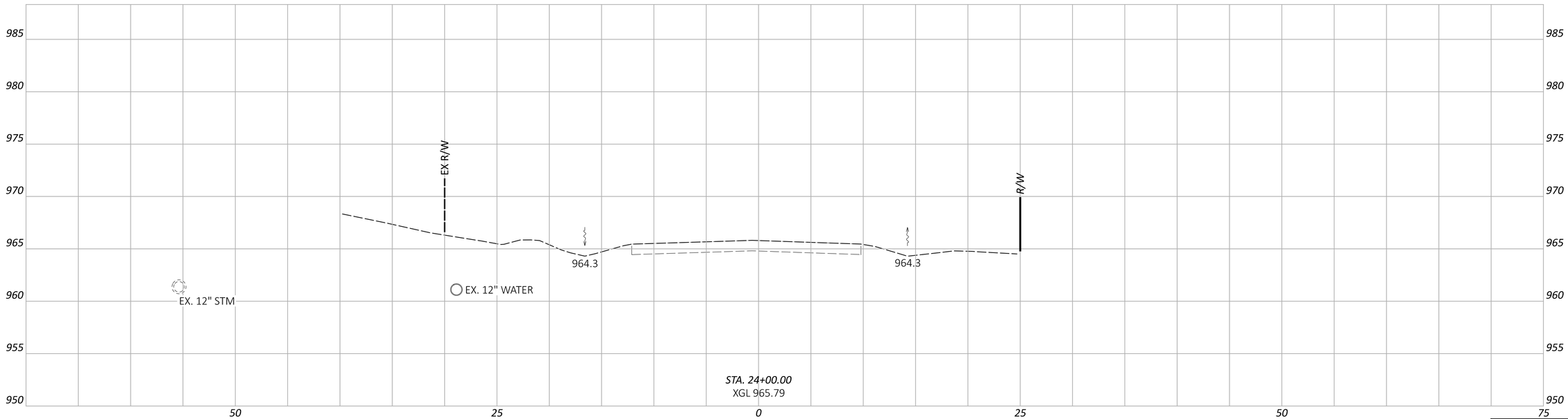
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 40	Cut Vol. (CY): 15
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 9	Seed Area (SY): 10



CROSS SECTIONS - MITCHELL-DEWITT RD
STA 24+00.00 TO STA 24+20.00

Sheet Totals		
Seeding	Cut	Fill
10	15	0

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 48 TOTAL 131

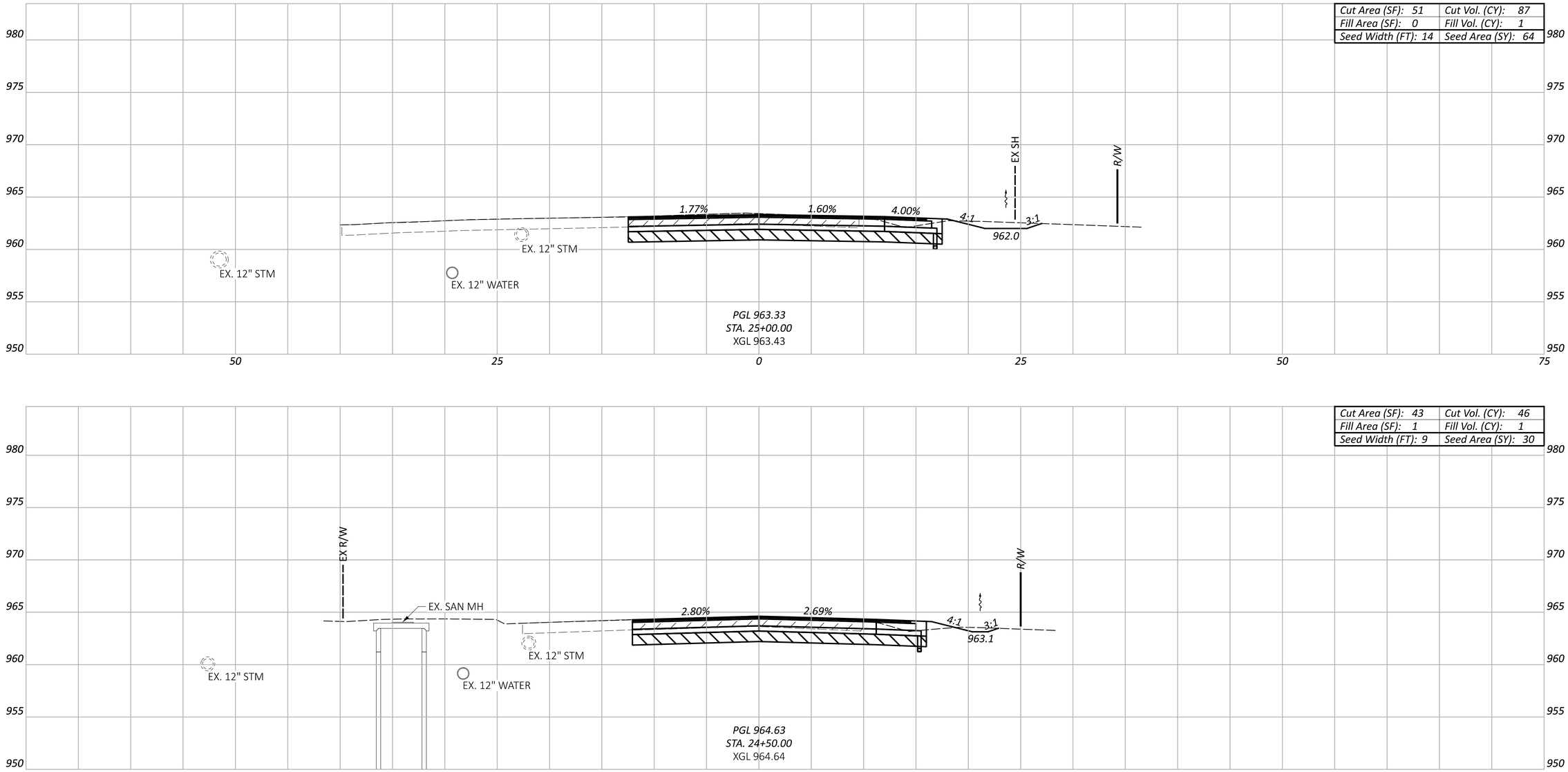
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 02 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:09 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 51	*Cut Vol. (CY): 87*
Fill Area (SF): 0	*Fill Vol. (CY): 1*
Seed Width (FT): 14	*Seed Area (SY): 64*

Cut Area (SF): 43	*Cut Vol. (CY): 46*
Fill Area (SF): 1	*Fill Vol. (CY): 1*
Seed Width (FT): 9	*Seed Area (SY): 30*

Sheet Totals		
Seeding	Cut	Fill
94	*133*	*2*

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 24+50.00 TO STA 25+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 49 TOTAL 131

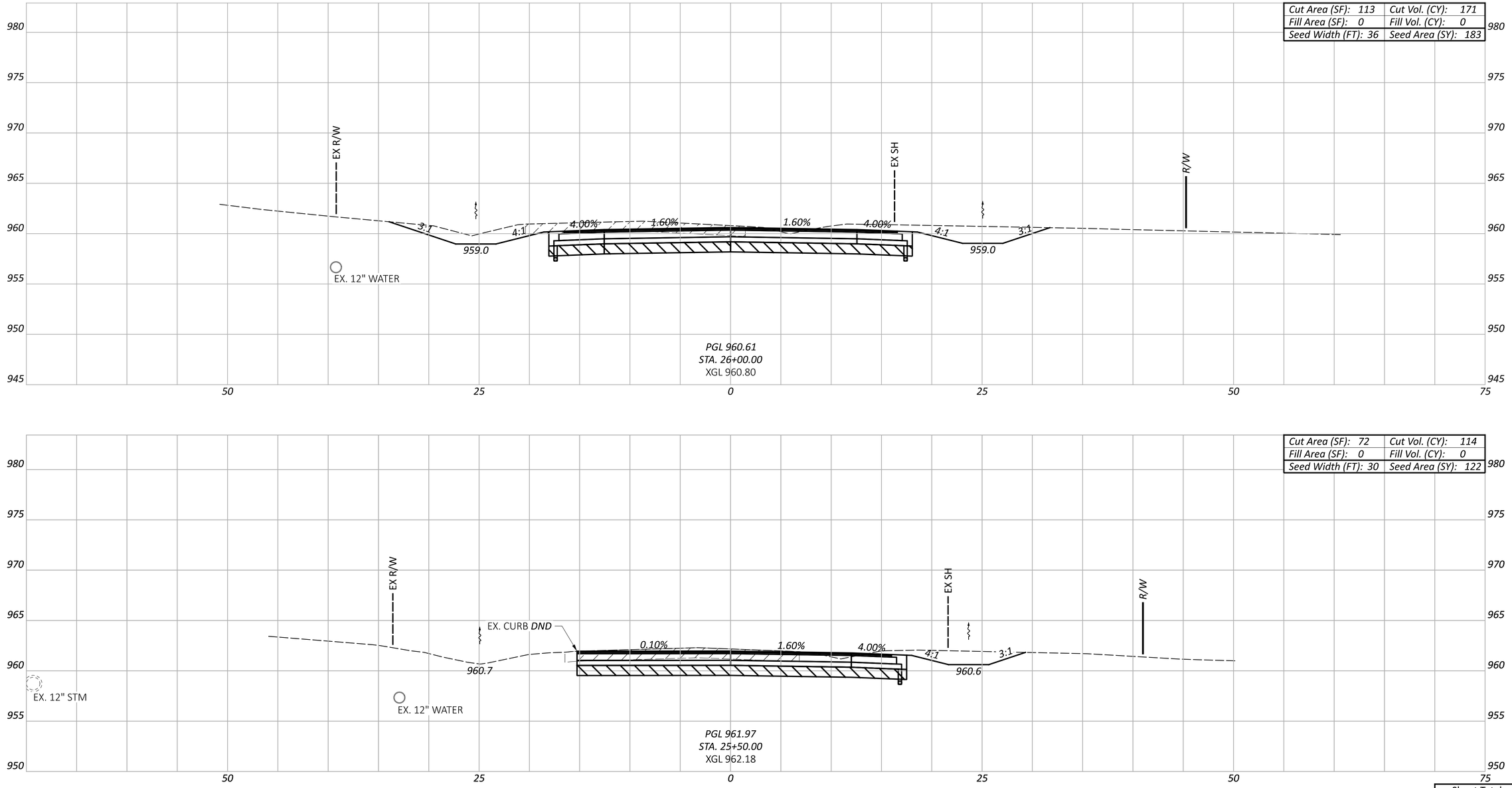
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 03 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:14 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 113	Cut Vol. (CY): 171
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 36	Seed Area (SY): 183

Cut Area (SF): 72	Cut Vol. (CY): 114
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 30	Seed Area (SY): 122

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 25+50.00 TO STA 26+00.00

Sheet Totals		
Seeding	Cut	Fill
305	285	0

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
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KAM 06/02/23

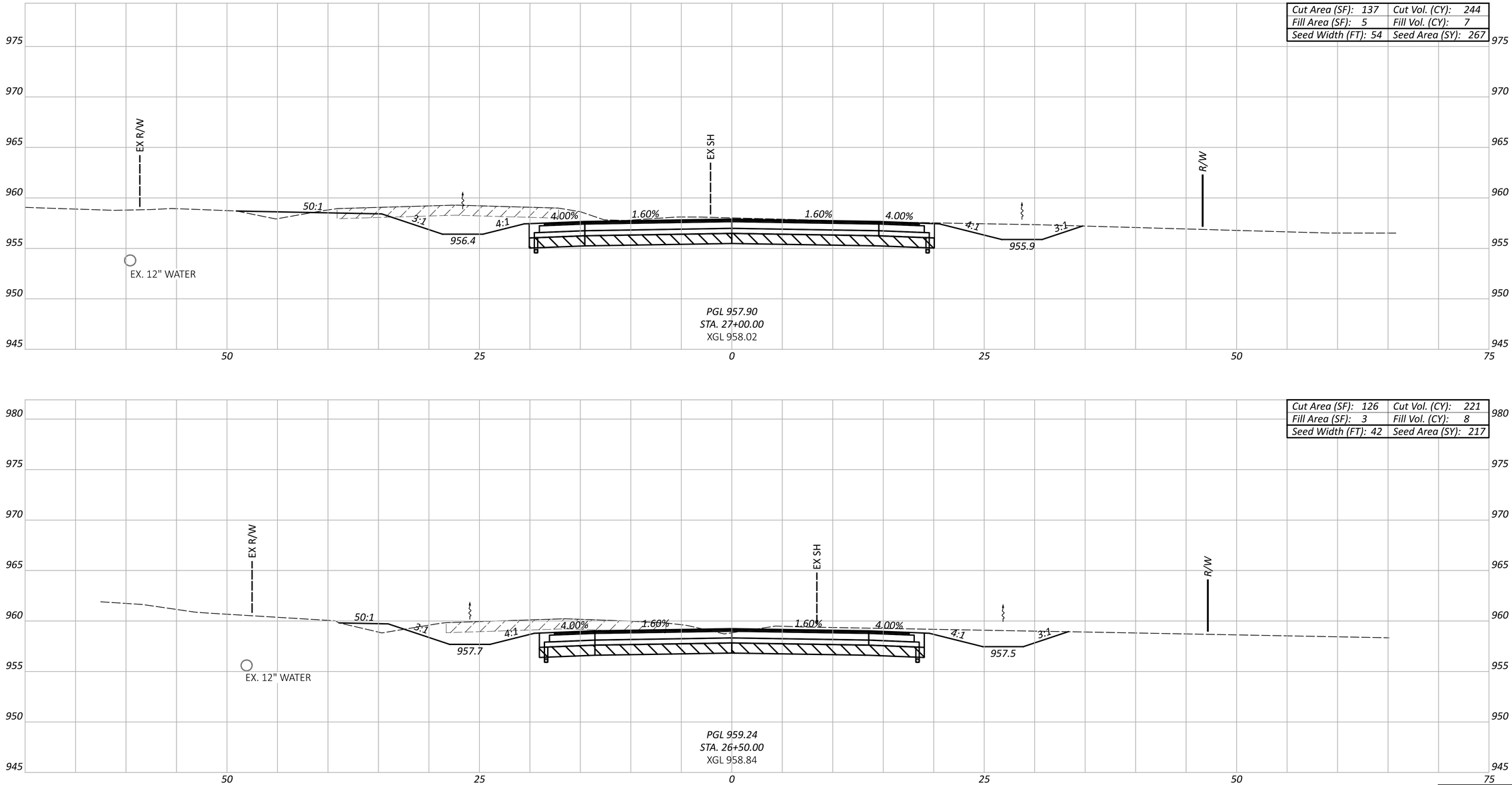
PROJECT ID
2022.01156

SHEET 50 TOTAL 131

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 137	Cut Vol. (CY): 244
Fill Area (SF): 5	Fill Vol. (CY): 7
Seed Width (FT): 54	Seed Area (SY): 267

Cut Area (SF): 126	Cut Vol. (CY): 221
Fill Area (SF): 3	Fill Vol. (CY): 8
Seed Width (FT): 42	Seed Area (SY): 217

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 26+50.00 TO STA 27+00.00

MODEL: XS_Sheet 04 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:19 AM USER: lstuller
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC

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KAM 06/02/23

PROJECT ID
2022.01156

Sheet Totals		
Seeding	Cut	Fill
484	465	10

SHEET	TOTAL
51	131

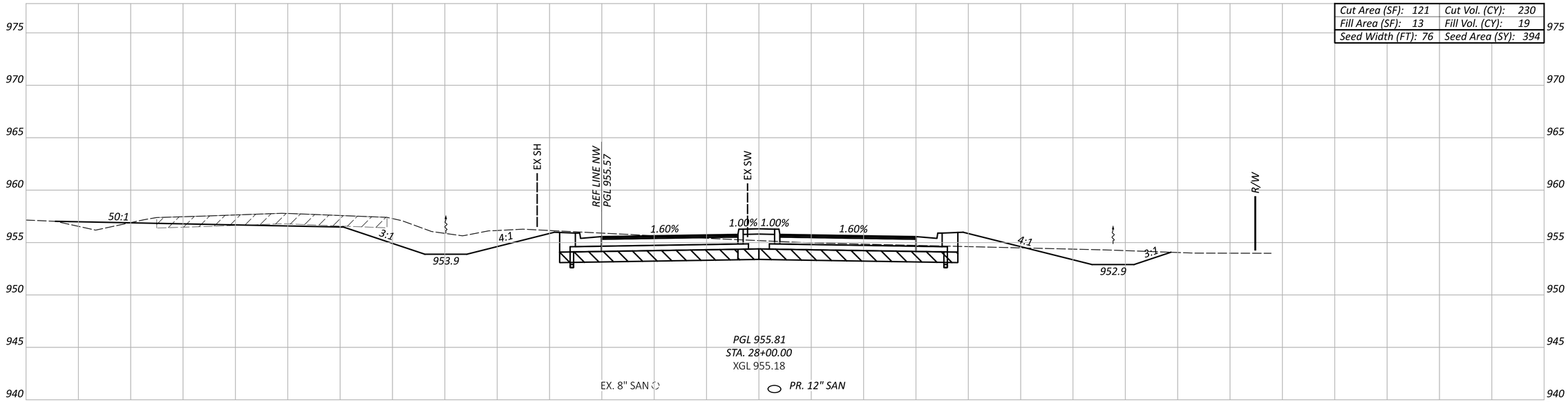
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 05 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:23 AM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

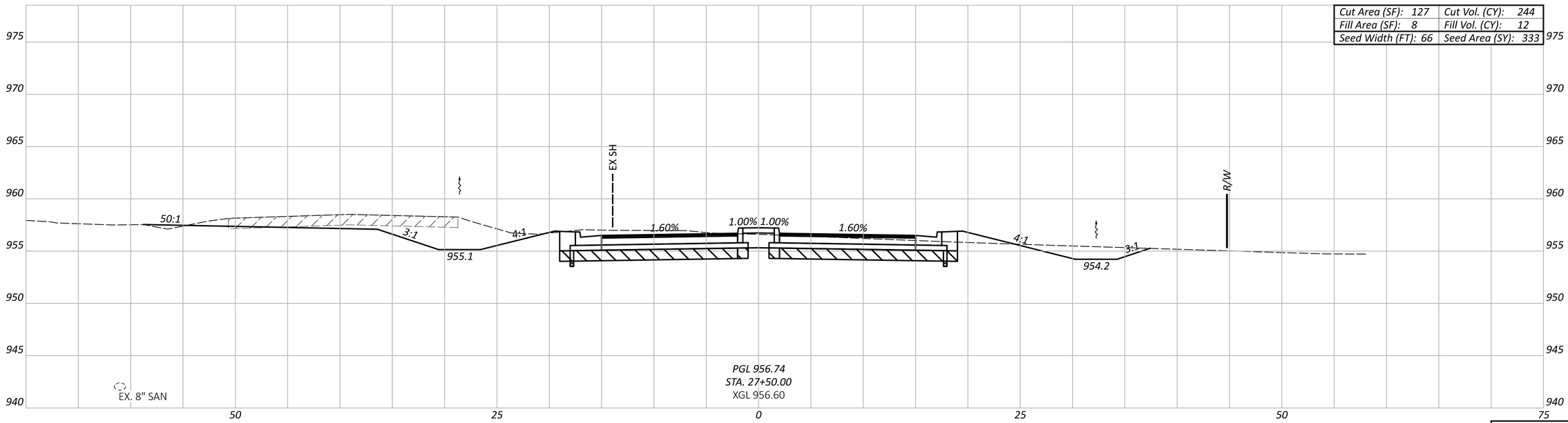
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 121	Cut Vol. (CY): 230
Fill Area (SF): 13	Fill Vol. (CY): 19
Seed Width (FT): 76	Seed Area (SY): 394



Cut Area (SF): 127	Cut Vol. (CY): 244
Fill Area (SF): 8	Fill Vol. (CY): 12
Seed Width (FT): 66	Seed Area (SY): 333

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 27+50.00 TO STA 28+00.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

Sheet Totals		
Seeding	Cut	Fill
727	474	31

SHEET 52 TOTAL 131

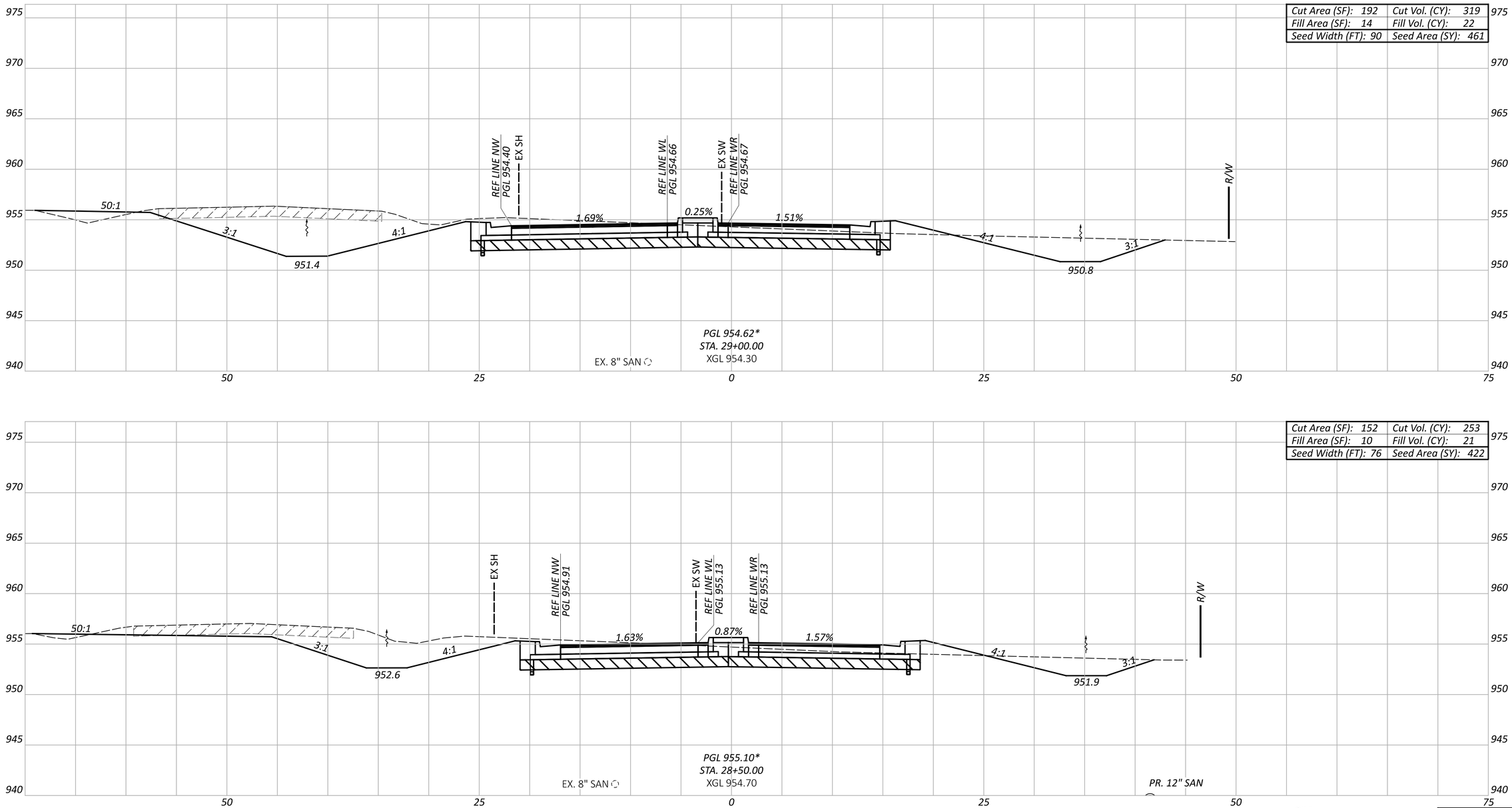
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 06 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:28 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



NOTE:

** FOR INFORMATION ONLY*

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 28+50.00 TO STA 29+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

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KAM 06/02/23

PROJECT ID
2022.01156

Sheet Totals		
Seeding	Cut	Fill
883	572	43

SHEET 53 TOTAL 131

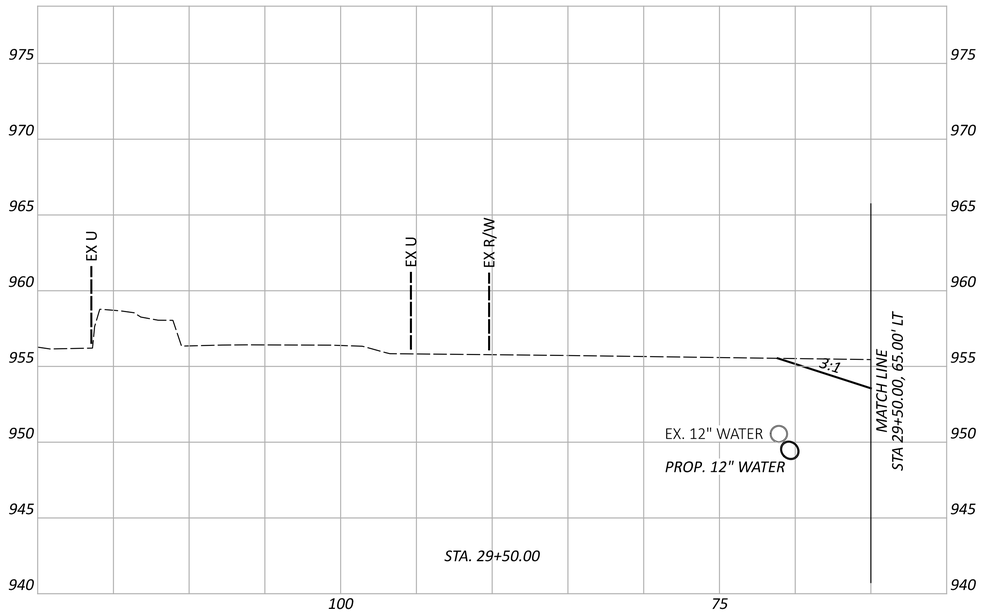
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

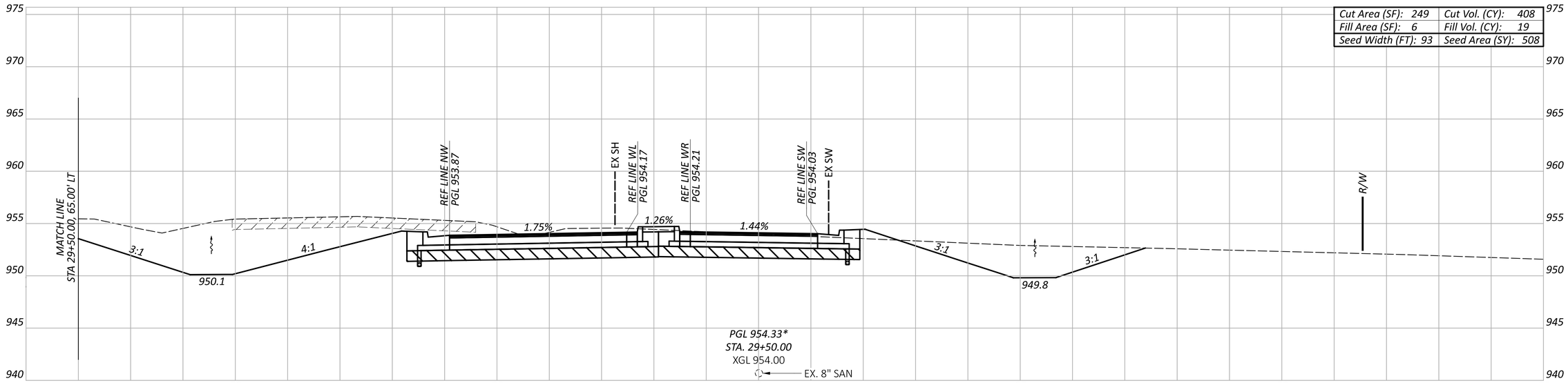
MODEL: XS_Sheet 07 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:32 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 249	Cut Vol. (CY): 408
Fill Area (SF): 6	Fill Vol. (CY): 19
Seed Width (FT): 93	Seed Area (SY): 508

NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
508	408	19

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 29+50.00

DESIGN AGENCY
MORPHUM STRUCTUREPOINT INC

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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 54 | TOTAL 131

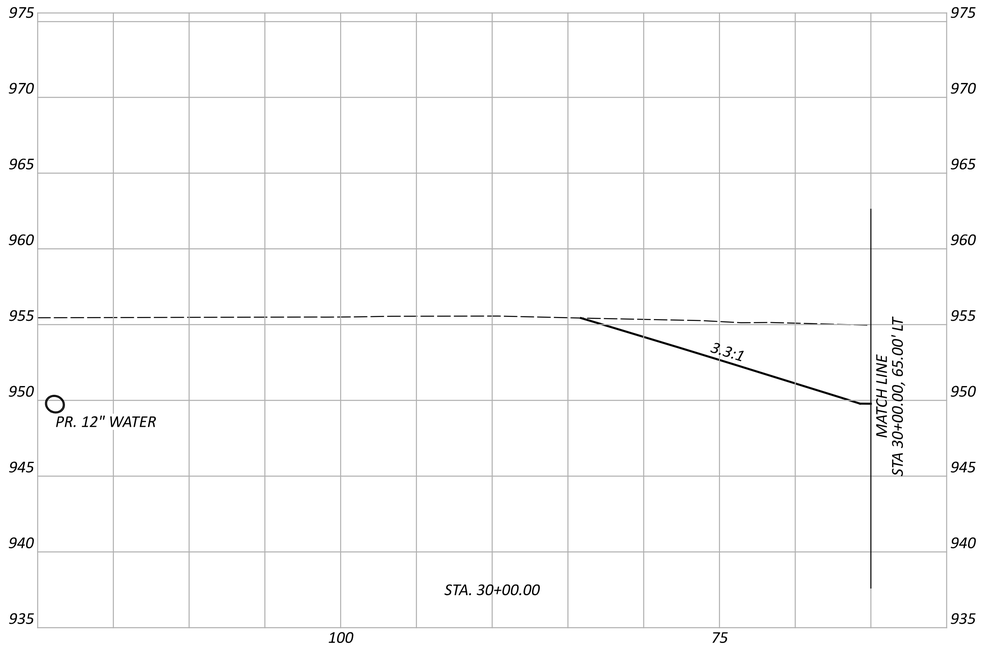
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

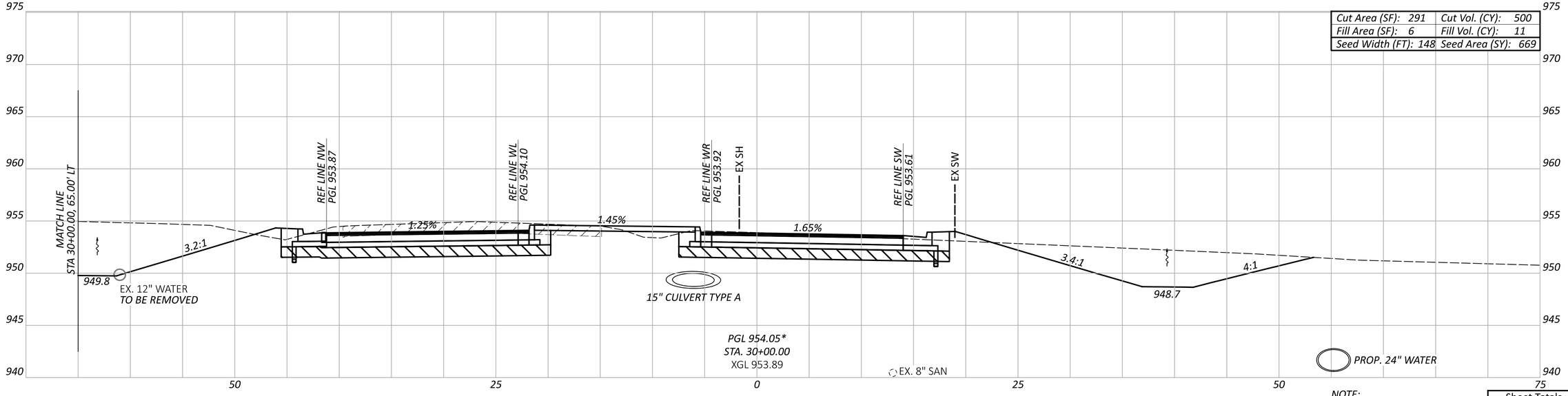
MODEL: XS_Sheet 08 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:37 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 291	Cut Vol. (CY): 500
Fill Area (SF): 6	Fill Vol. (CY): 11
Seed Width (FT): 148	Seed Area (SY): 669

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
669	500	11

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 30+00.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 55 TOTAL 131

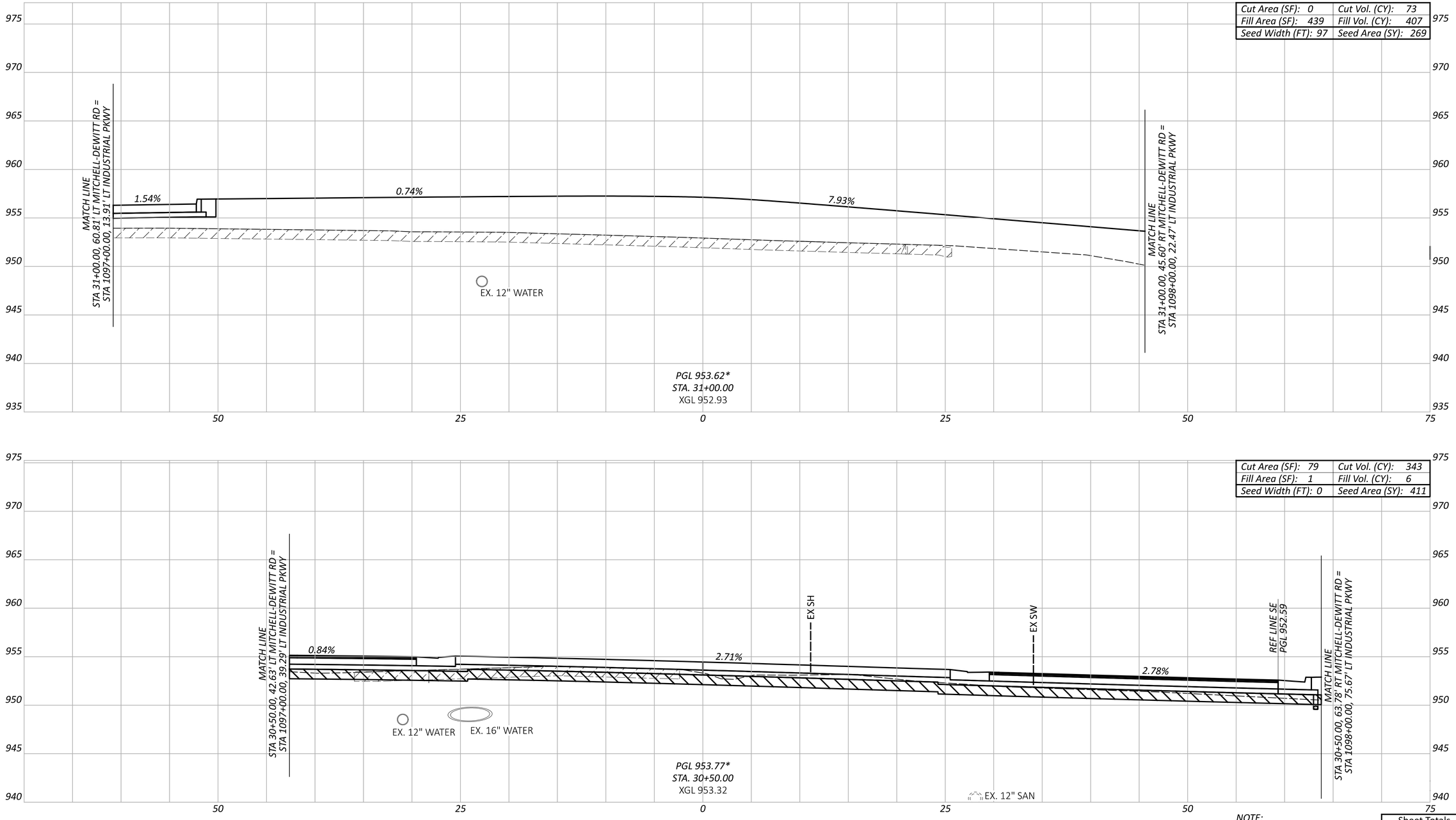
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 09 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:42 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
680	416	413

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 30+50.00 TO STA 31+00.00

DESIGN AGENCY
STRUCTUREPOINT INC.

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LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 56 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

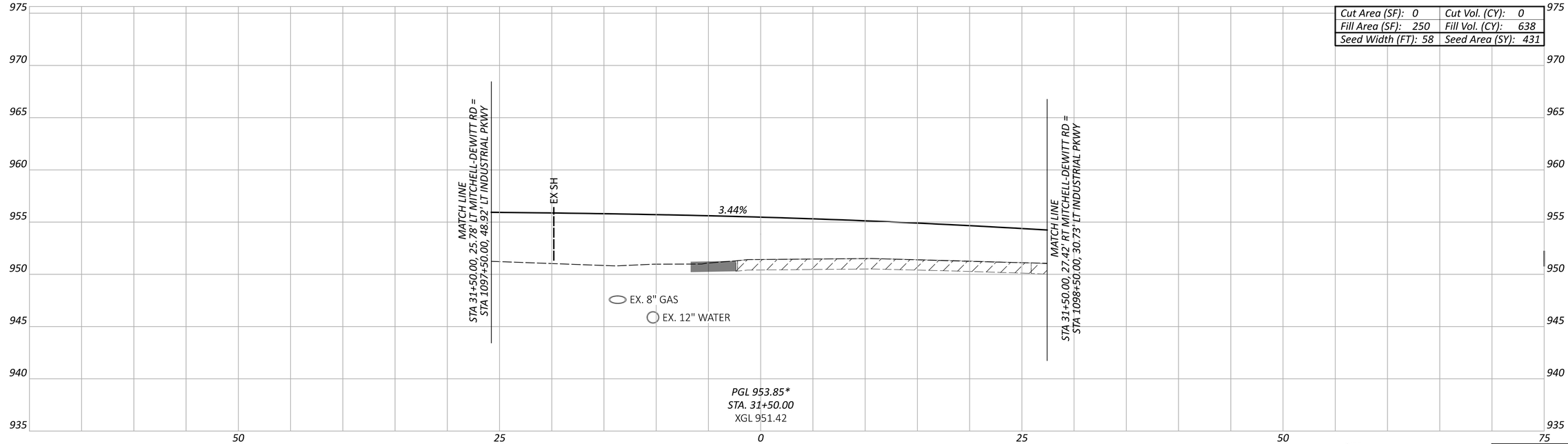
MODEL: XS_Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:48 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 250	Fill Vol. (CY): 638
Seed Width (FT): 58	Seed Area (SY): 431

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
431	0	638

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 31+50.00

DESIGN AGENCY
STRUCTUREPOINT

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REVIEWER
KAM 06/02/23

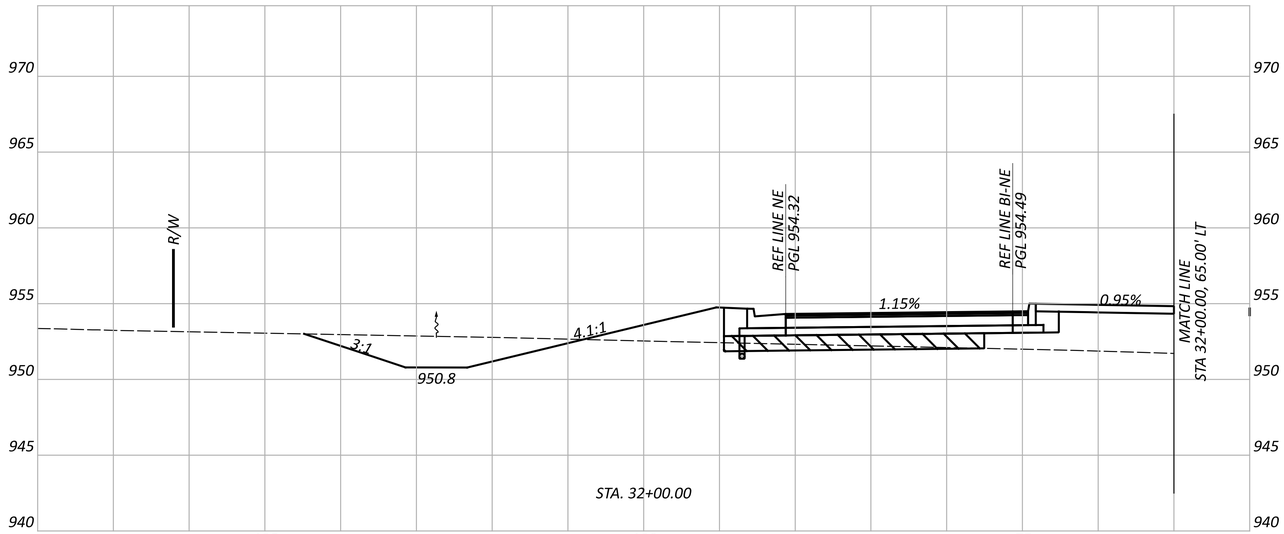
PROJECT ID
2022.01156

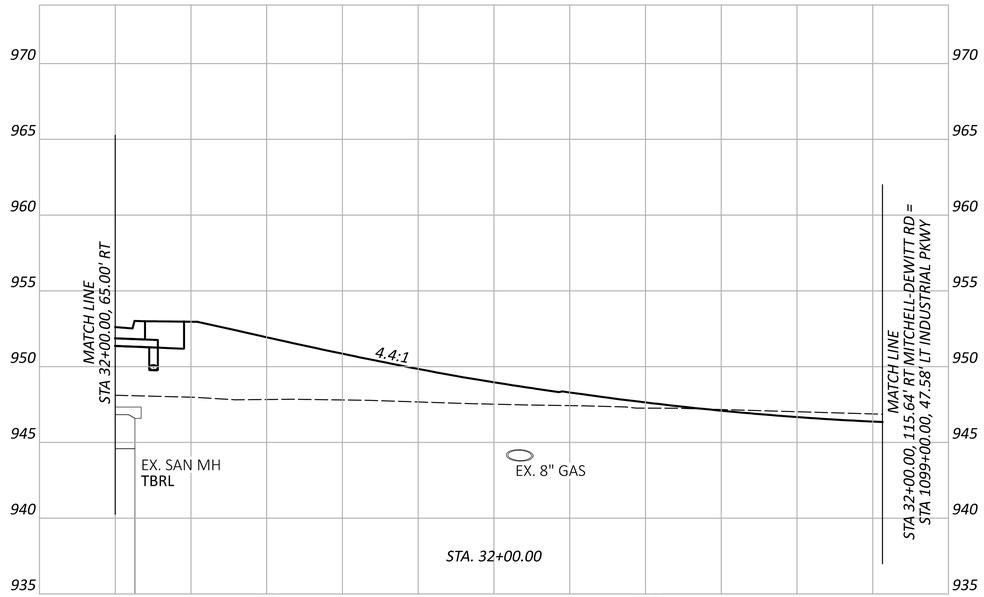
SHEET 57 TOTAL 131

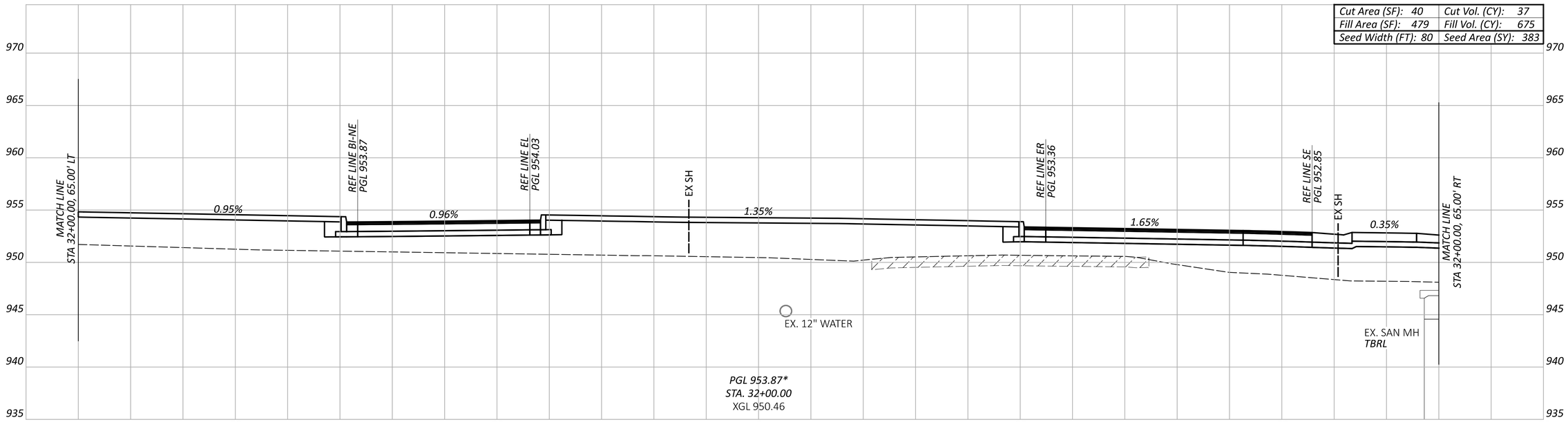
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC







Cut Area (SF): 40	Cut Vol. (CY): 37
Fill Area (SF): 479	Fill Vol. (CY): 675
Seed Width (FT): 80	Seed Area (SY): 383

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
383	37	675

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 32+00.00

DESIGN AGENCY
MPEAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 58 | TOTAL 131

MODEL: XS_Sheet 11 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:51 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

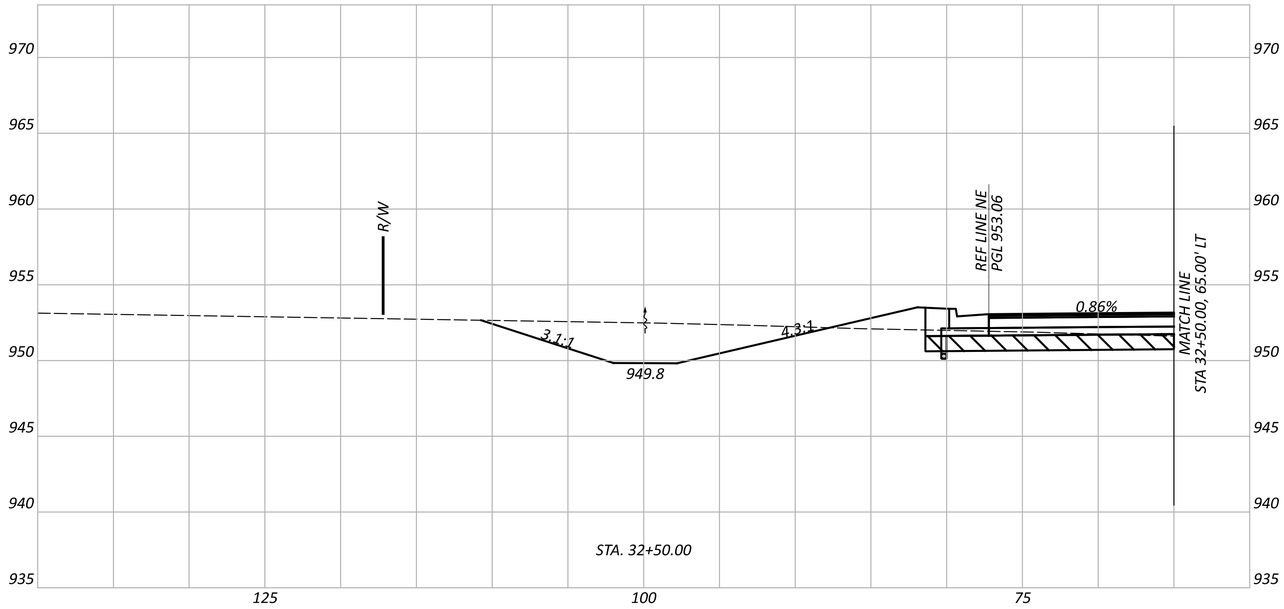
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

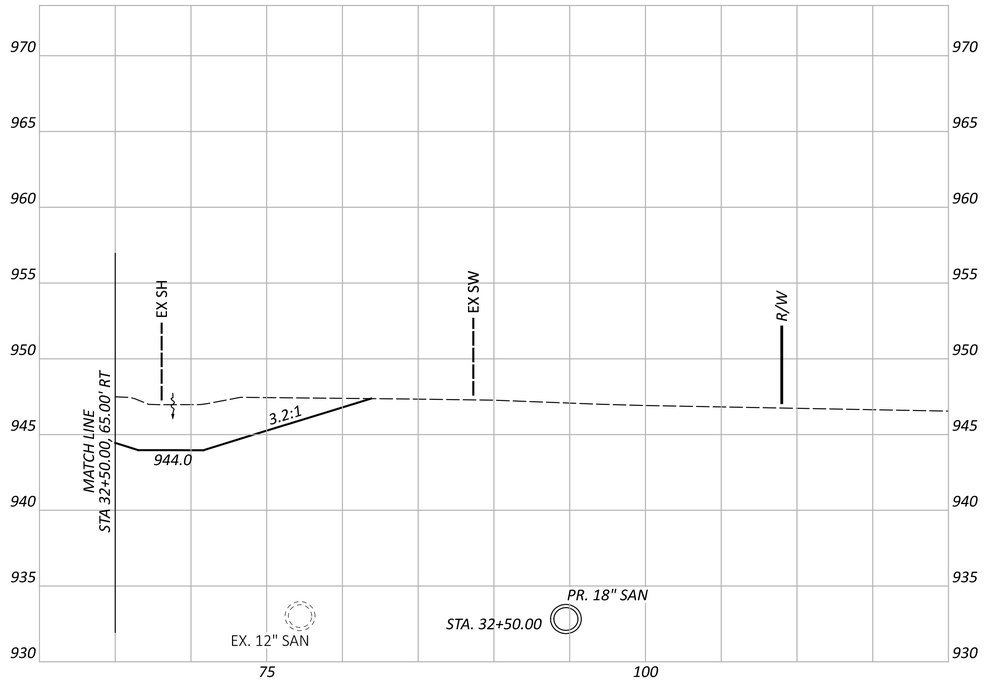
MODEL: XS_Sheet 12 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:31:58 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

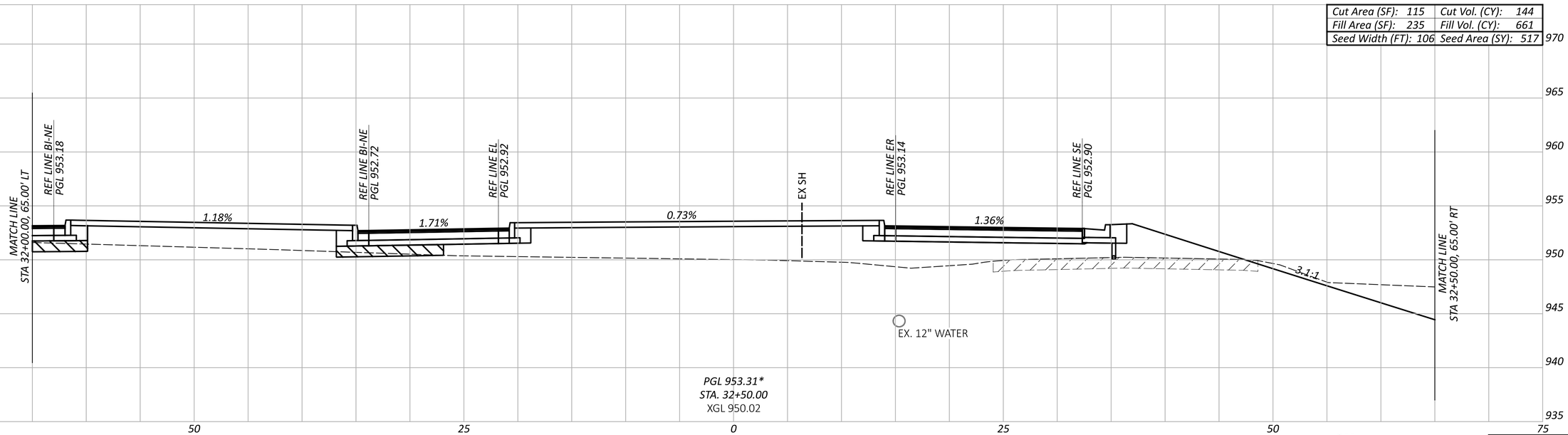
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF):	115	Cut Vol. (CY):	144
Fill Area (SF):	235	Fill Vol. (CY):	661
Seed Width (FT):	106	Seed Area (SY):	517



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
517	144	661

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 32+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 59 TOTAL 131

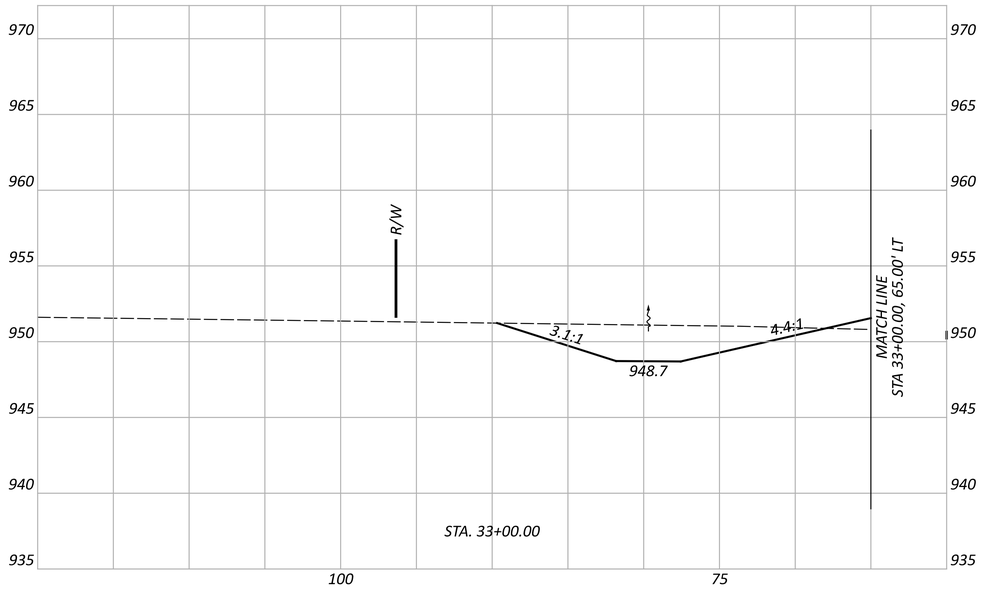
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

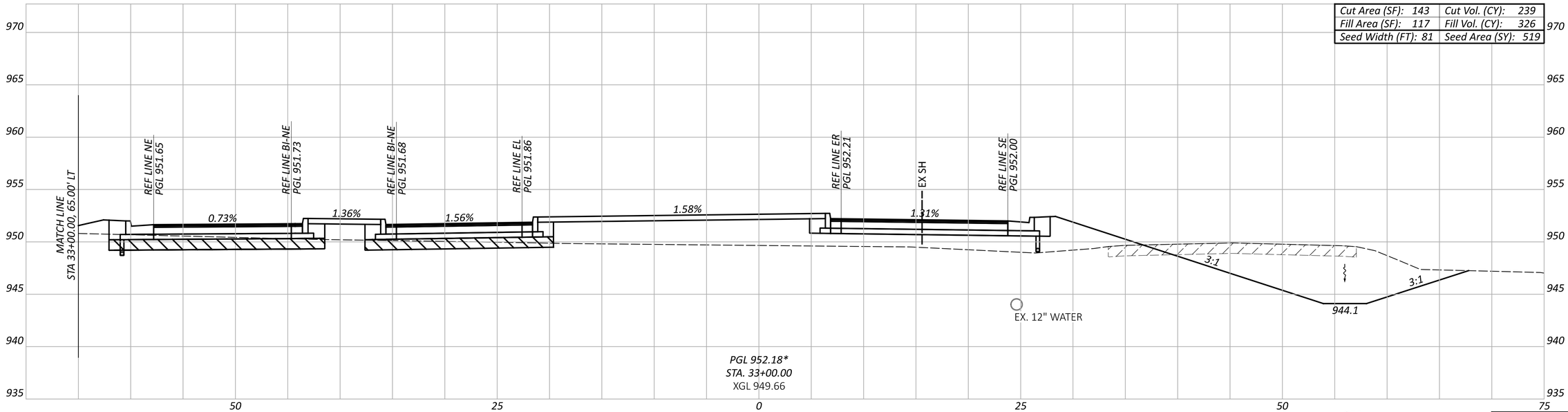
MODEL: XS_Sheet 13 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:05 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 143	Cut Vol. (CY): 239
Fill Area (SF): 117	Fill Vol. (CY): 326
Seed Width (FT): 81	Seed Area (SY): 519

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
519	239	326

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 33+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 60 TOTAL 131

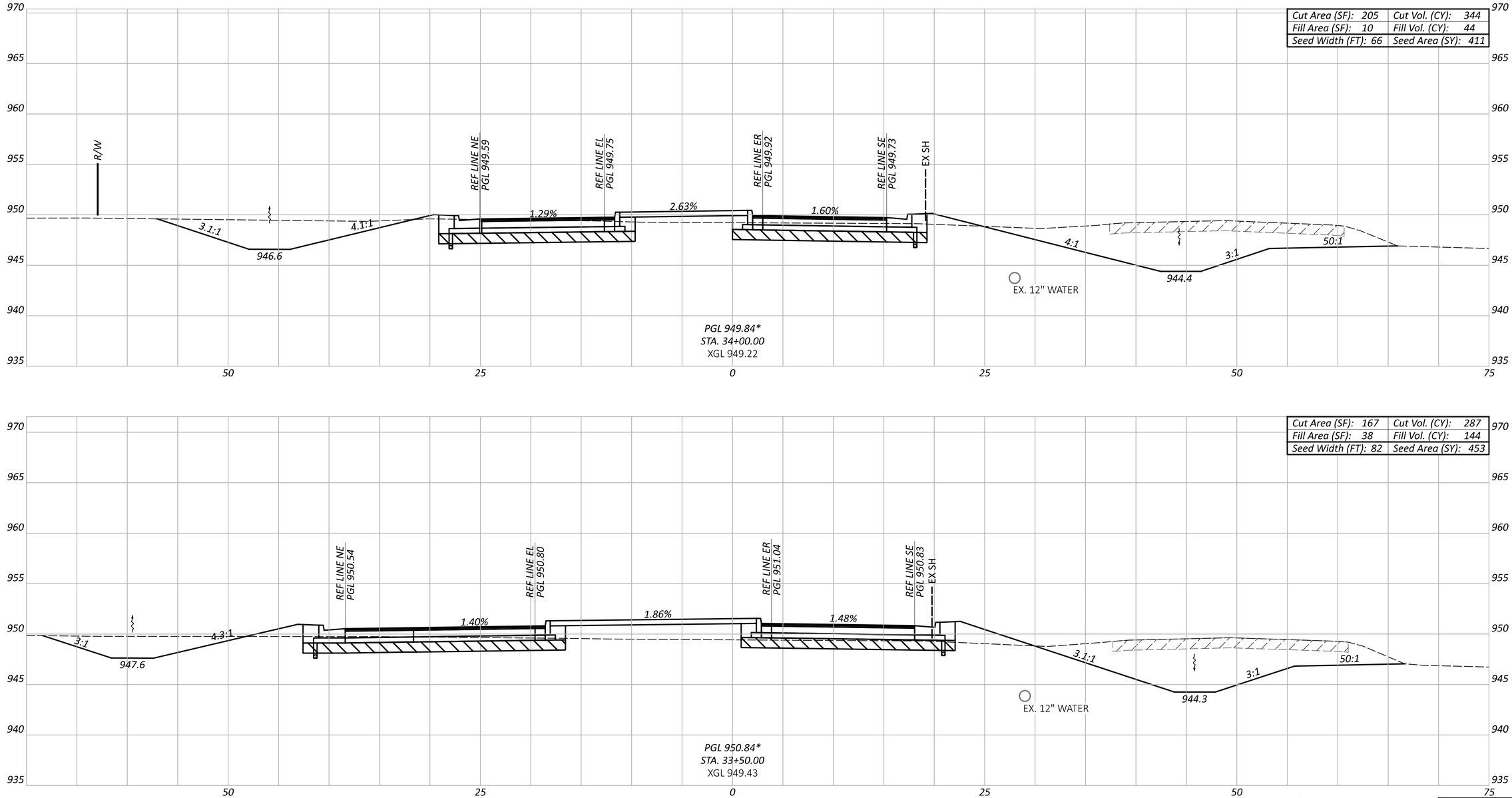
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 14 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:10 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
864	631	188

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 33+50.00 TO STA 34+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 61 TOTAL 131

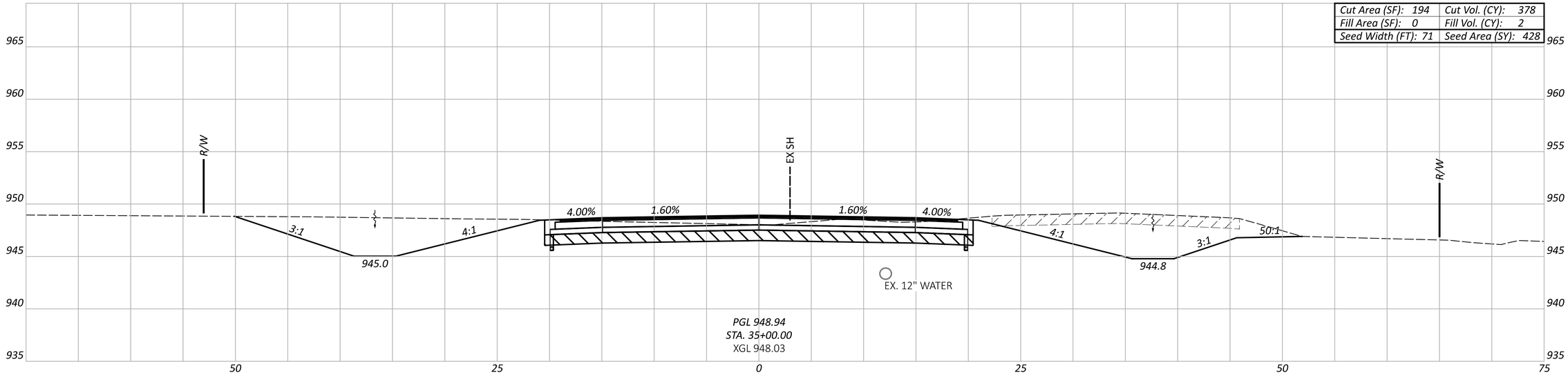
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 15 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:14 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

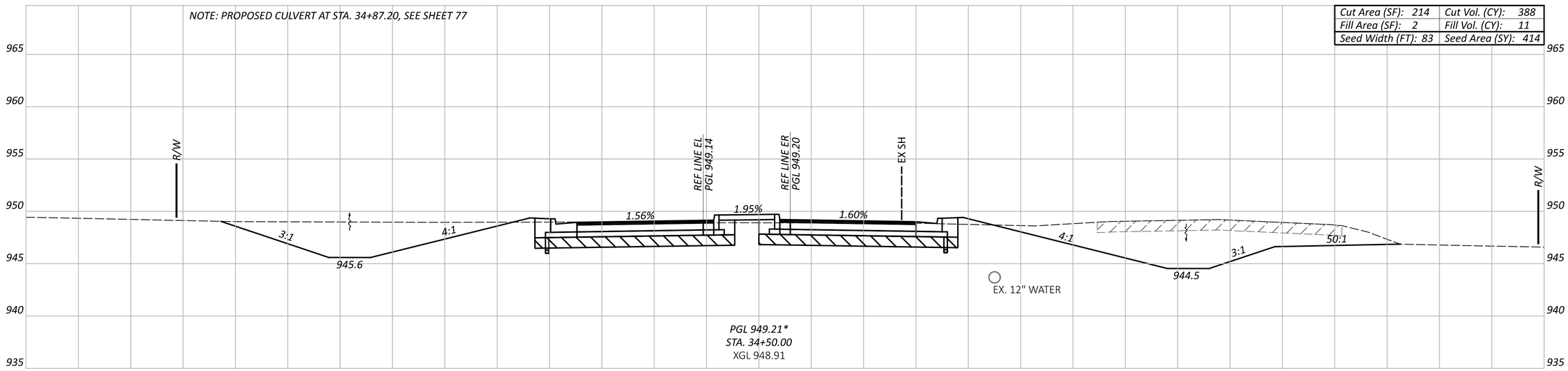
ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 194	*Cut Vol. (CY): 378*
Fill Area (SF): 0	*Fill Vol. (CY): 2*
Seed Width (FT): 71	*Seed Area (SY): 428*

PGL 948.94
STA. 35+00.00
XGL 948.03

NOTE: PROPOSED CULVERT AT STA. 34+87.20, SEE SHEET 77



Cut Area (SF): 214	*Cut Vol. (CY): 388*
Fill Area (SF): 2	*Fill Vol. (CY): 11*
Seed Width (FT): 83	*Seed Area (SY): 414*

*PGL 949.21**
STA. 34+50.00
XGL 948.91

NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
842	*766*	*13*

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 34+50.00 TO STA 35+00.00

DESIGN AGENCY
MORPHUM STRUCTUREPOINT INC

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REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 62 TOTAL 131

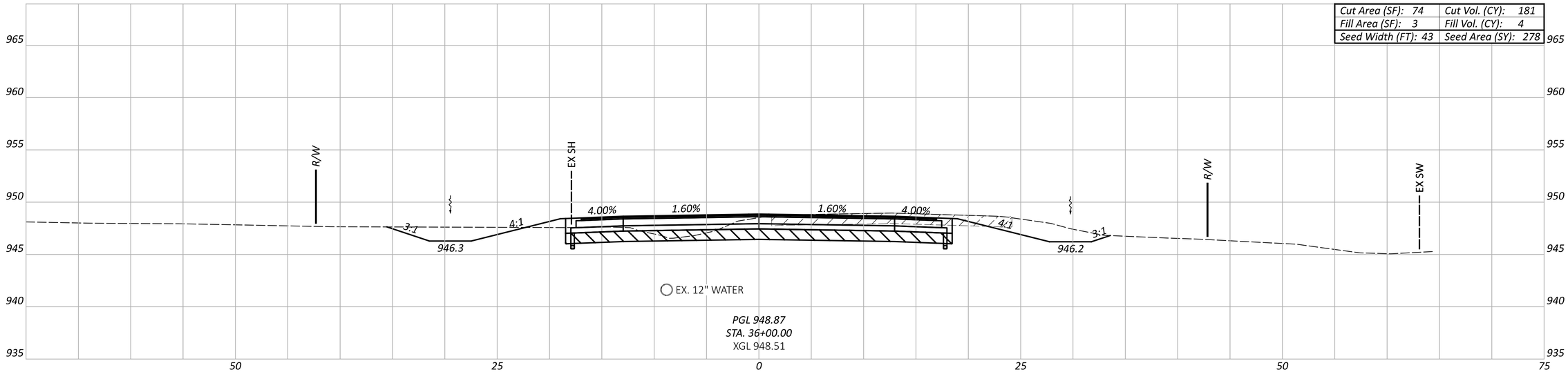
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

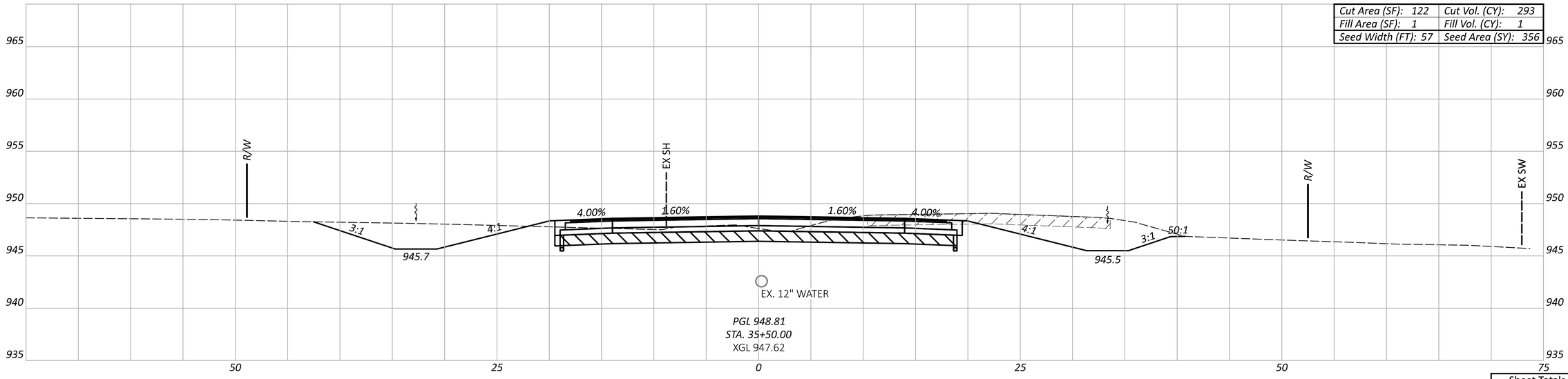
MODEL: XS_Sheet 16 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:19 AM USER: lstutler
O:\2022\01156\C Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





CROSS SECTIONS - MITCHELL-DEWITT RD
STA 35+50.00 TO STA 36+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

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REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

Sheet Totals		
Seeding	Cut	Fill
634	474	5

SHEET 63 TOTAL 131

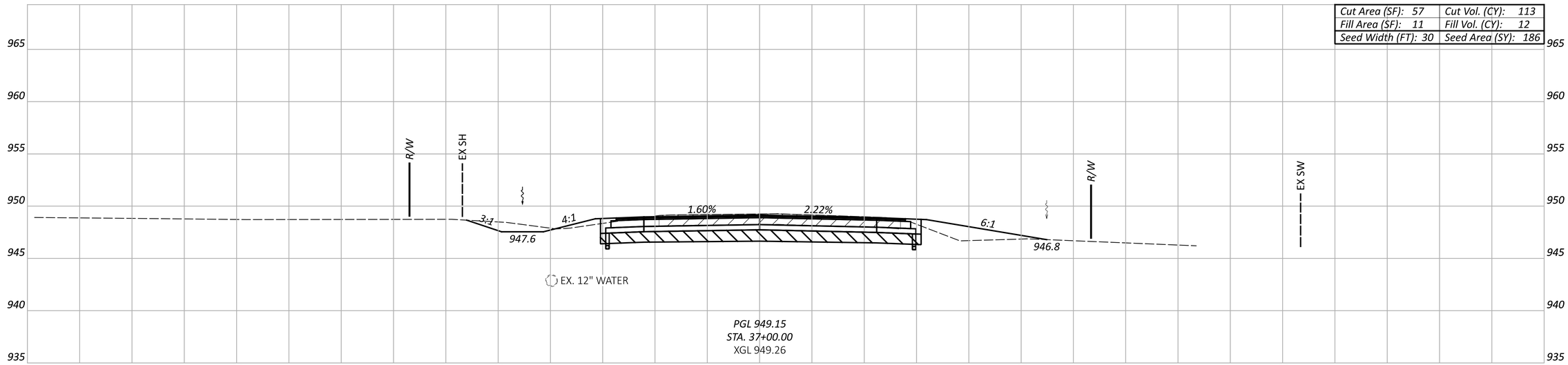
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

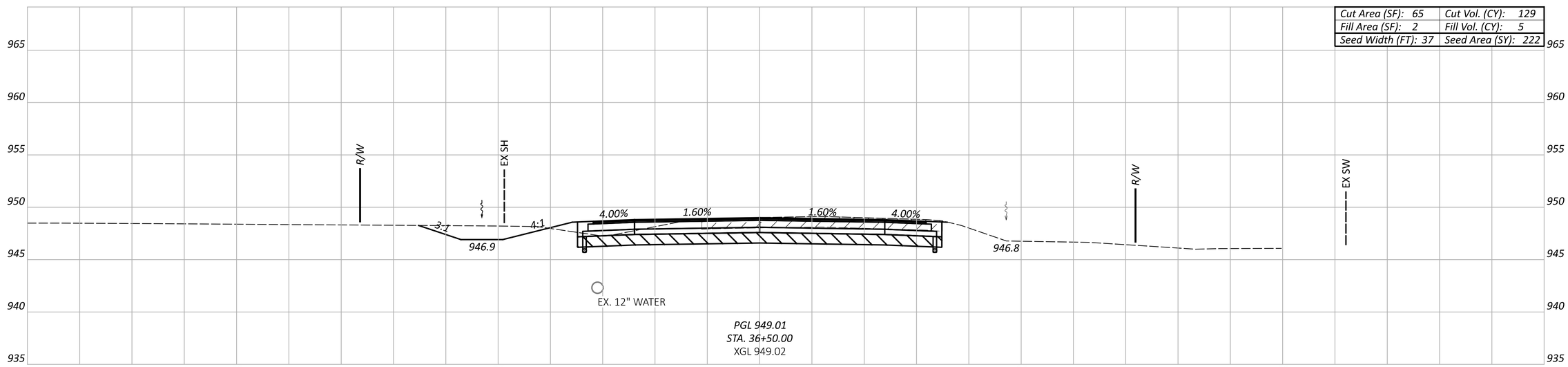
MODEL: XS_Sheet 17 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:23 AM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





CROSS SECTIONS - MITCHELL-DEWITT RD
STA 36+50.00 TO STA 37+00.00

Sheet Totals		
Seeding	Cut	Fill
408	242	17

DESIGN AGENCY
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SHEET 64 TOTAL 131

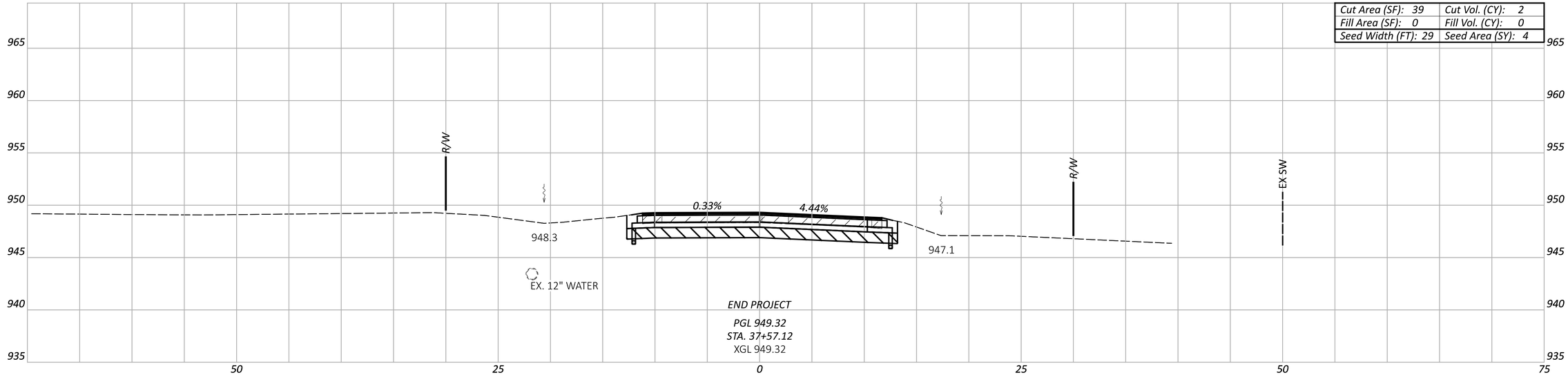
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 18 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:27 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

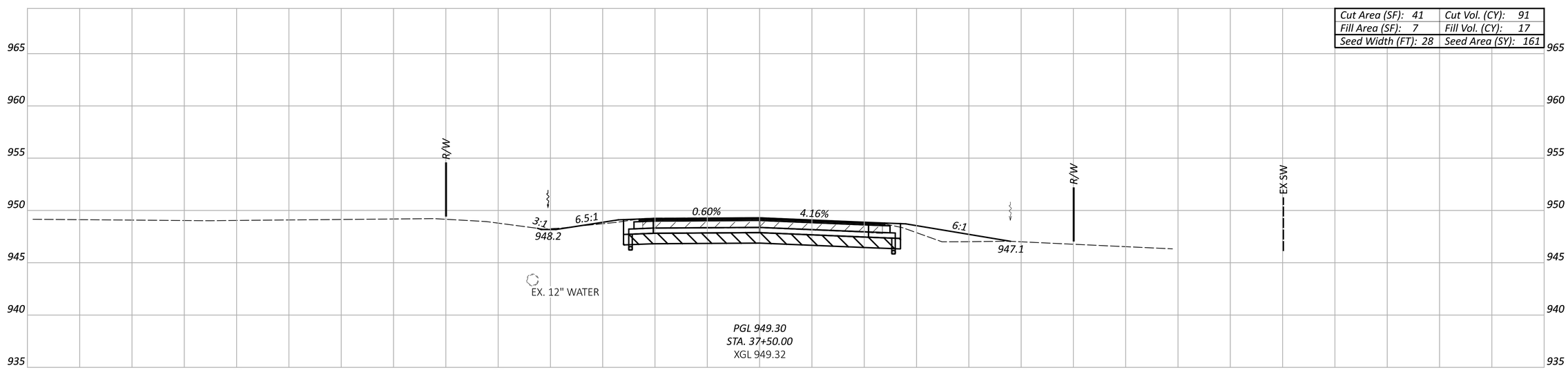
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 39	Cut Vol. (CY): 2
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 29	Seed Area (SY): 4



Cut Area (SF): 41	Cut Vol. (CY): 91
Fill Area (SF): 7	Fill Vol. (CY): 17
Seed Width (FT): 28	Seed Area (SY): 161

Sheet Totals		
Seeding	Cut	Fill
165	91	17

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 37+50.00 TO STA 37+57.12

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PROJECT ID
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SHEET 65 TOTAL 131

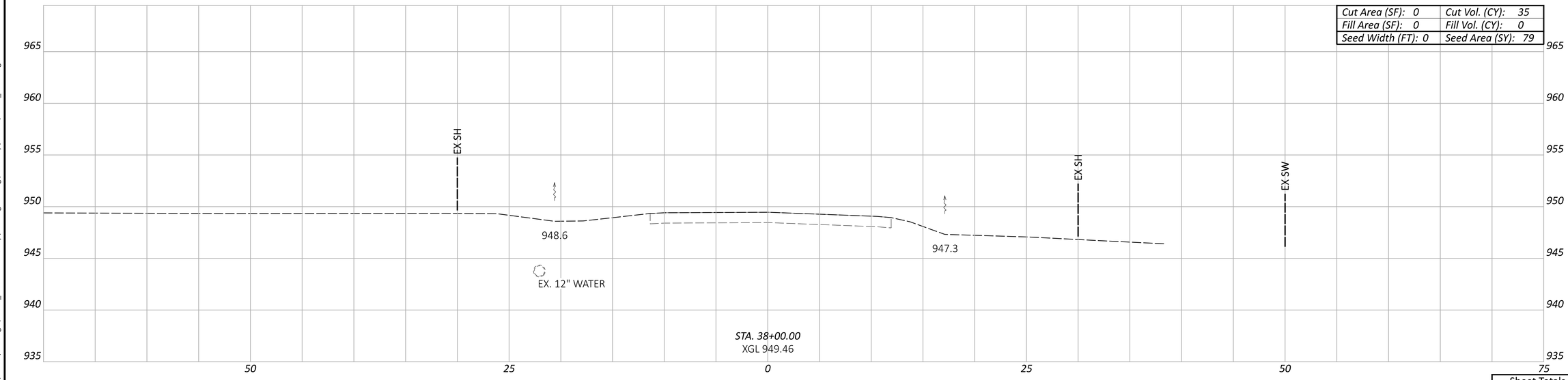
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 19 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:31 AM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Sheet Totals		
Seeding	Cut	Fill
79	35	0

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 38+00.00

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SHEET 66 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 01 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:43 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

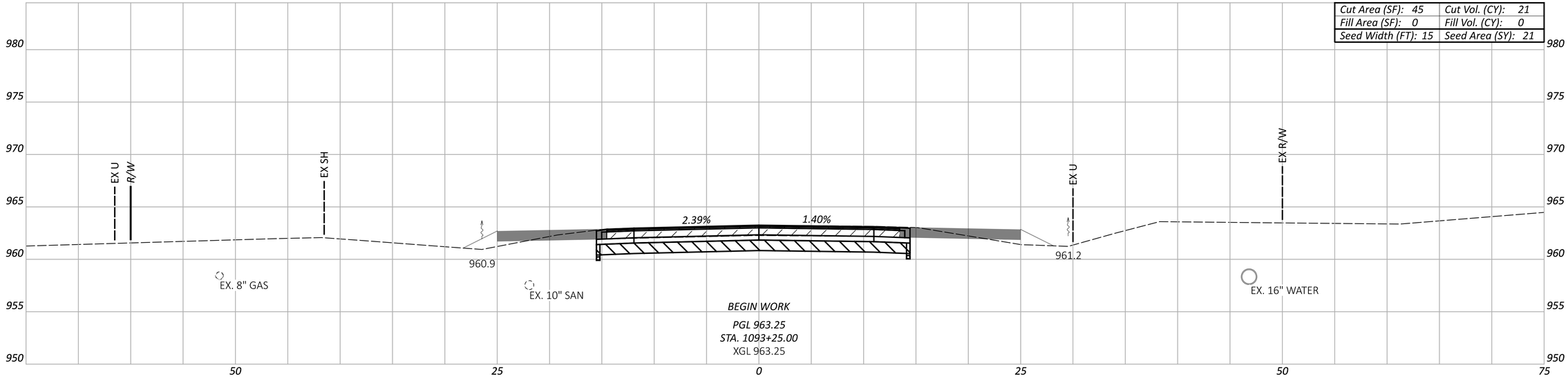
LEGEND

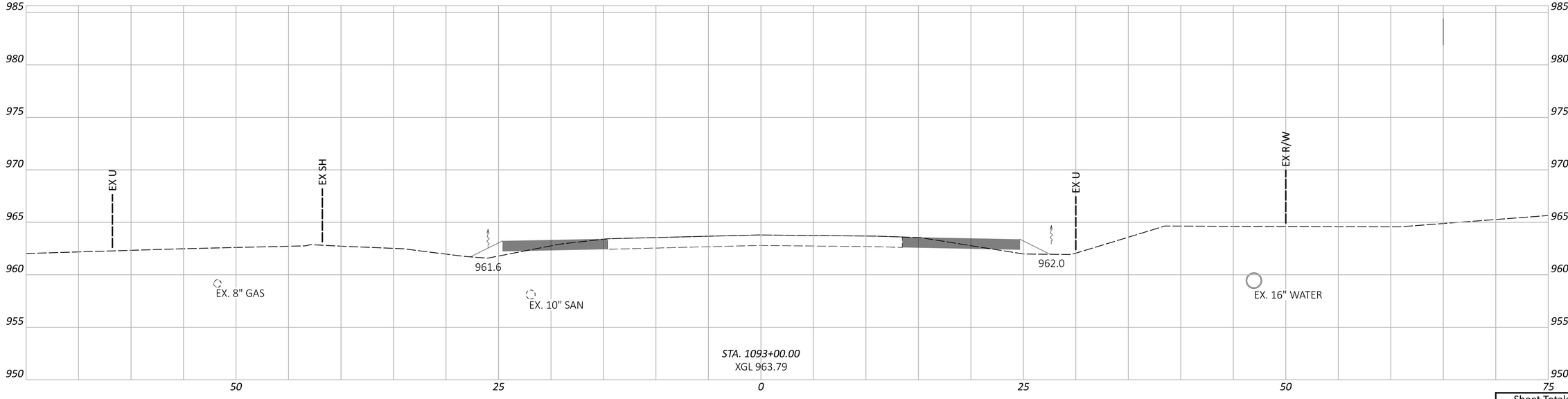
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 45	Cut Vol. (CY): 21
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 21





Sheet Totals		
Seeding	Cut	Fill
21	21	0

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1093+00.00 TO STA 1093+25.00

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PROJECT ID
2022.01156

SHEET 67 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

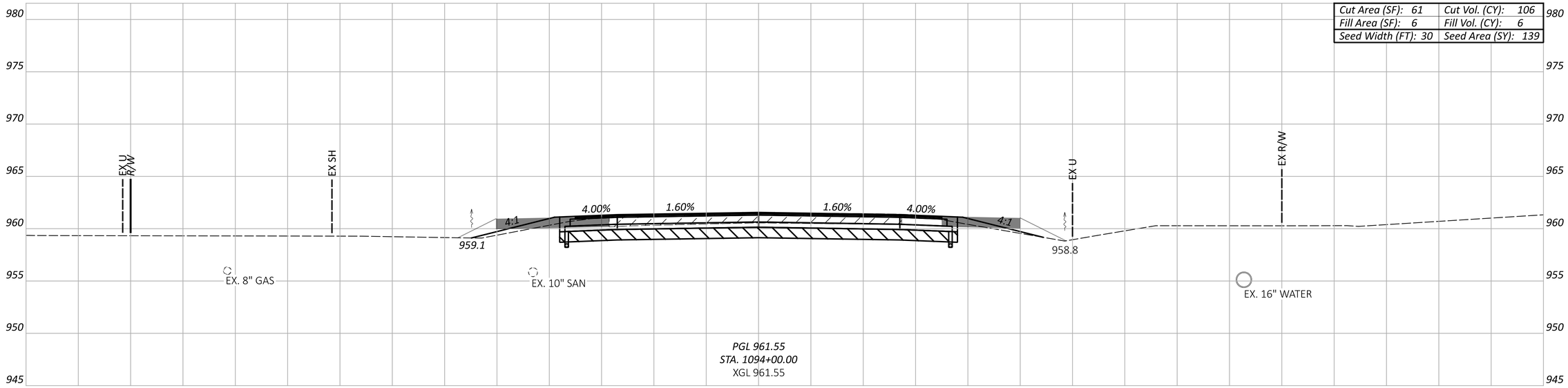
MODEL: XS_Sheet 02 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:49 AM USER: lstufler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

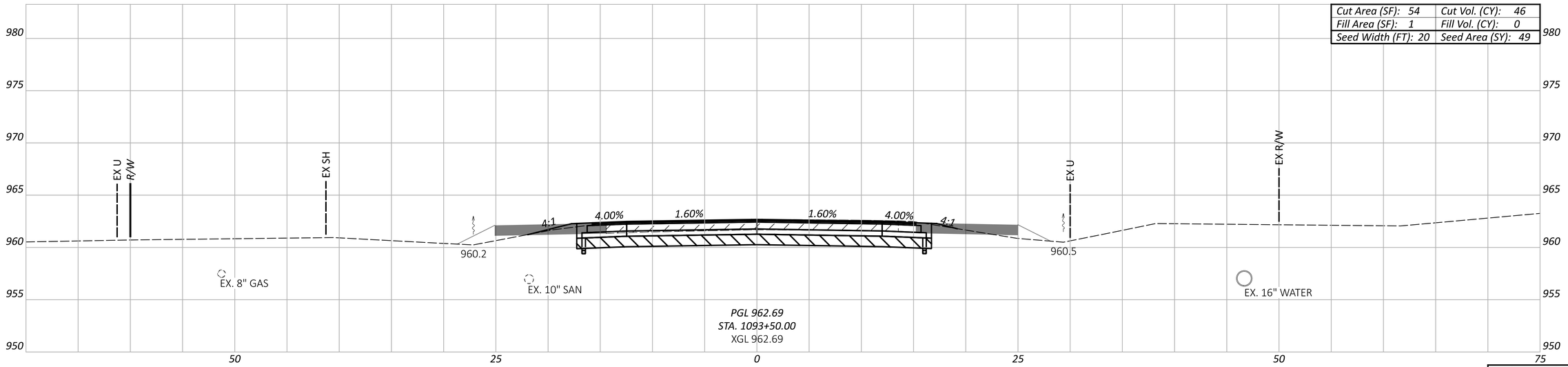
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





CROSS SECTIONS - INDUSTRIAL PKWY
STA 1093+50.00 TO STA 1094+00.00

Sheet Totals		
Seeding	Cut	Fill
188	152	6

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PROJECT ID
2022.01156

SHEET 68 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

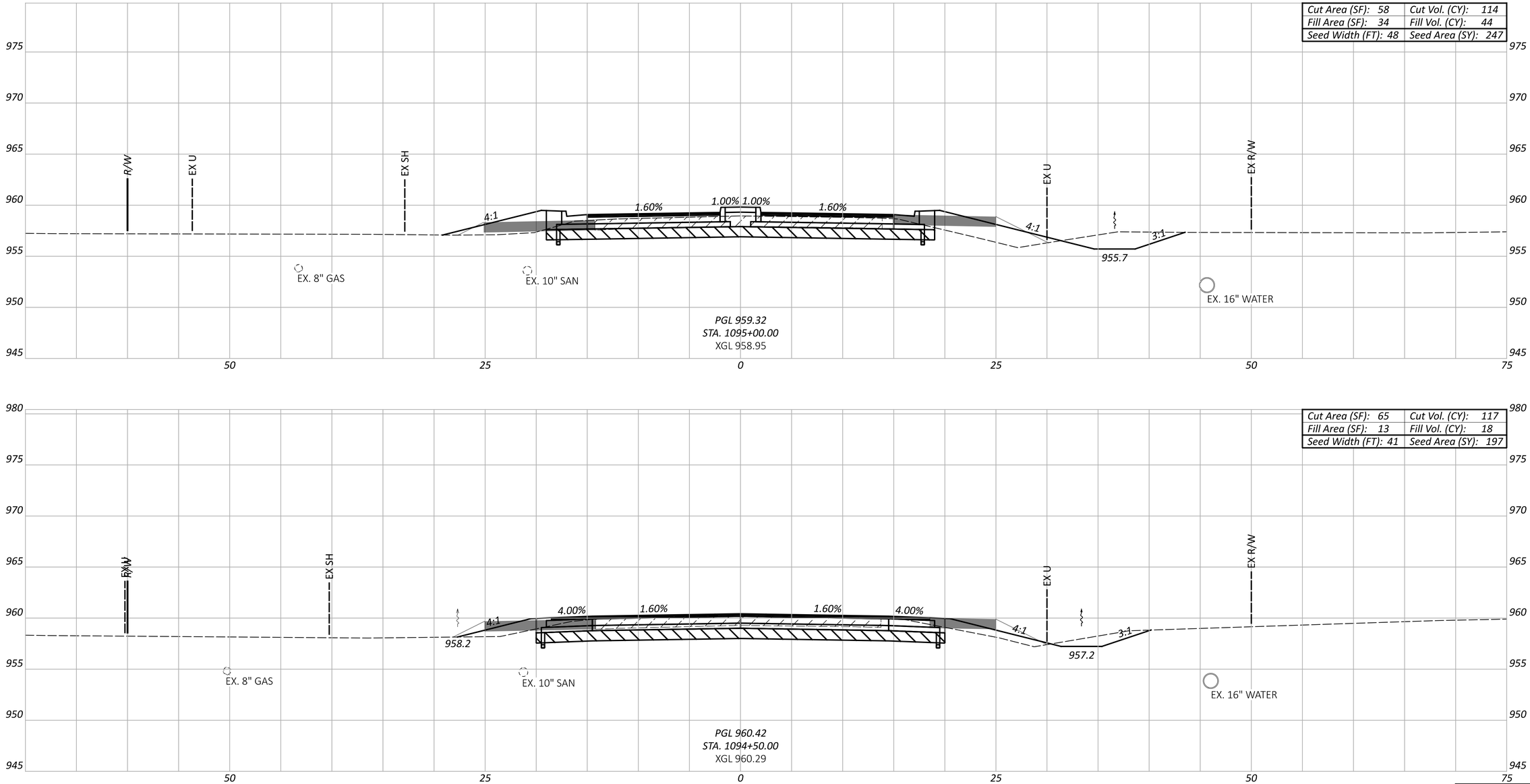
MODEL: XS_Sheet 03 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:32:55 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Sheet Totals		
Seeding	Cut	Fill
444	231	62

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1094+50.00 TO STA 1095+00.00

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KAM 06/02/23

PROJECT ID
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SHEET 69 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

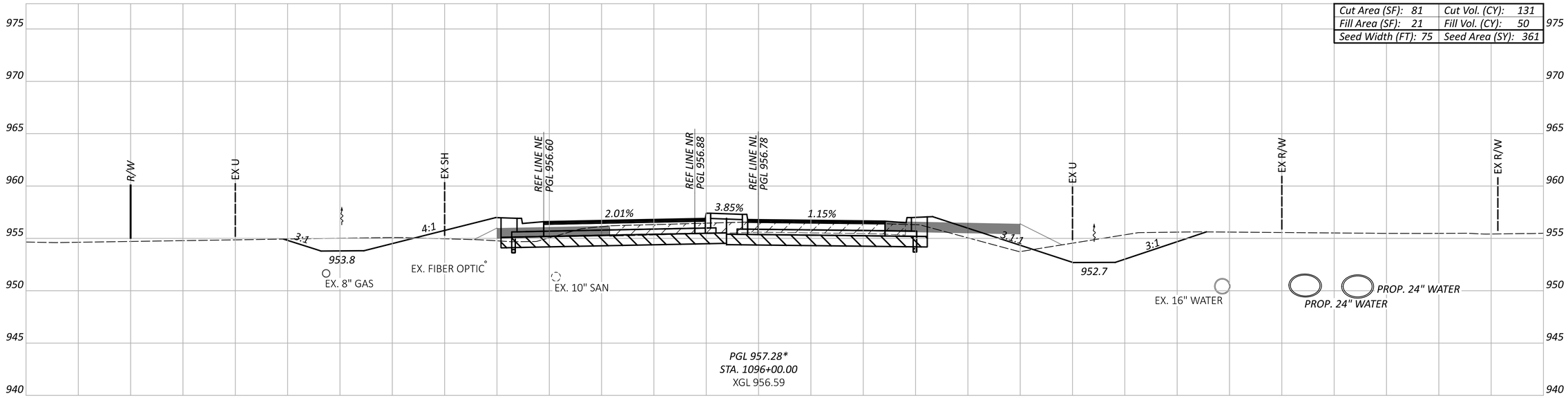
MODEL: XS_Sheet 04 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:01 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

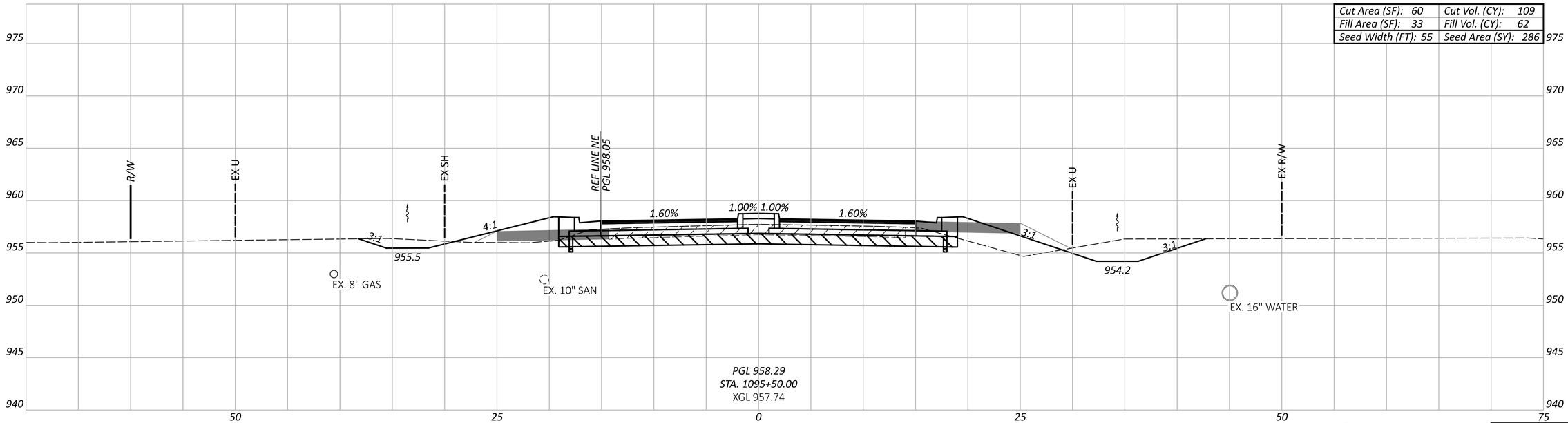
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
647	240	112

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1095+50.00 TO STA 1096+00.00

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PROJECT ID
2022.01156

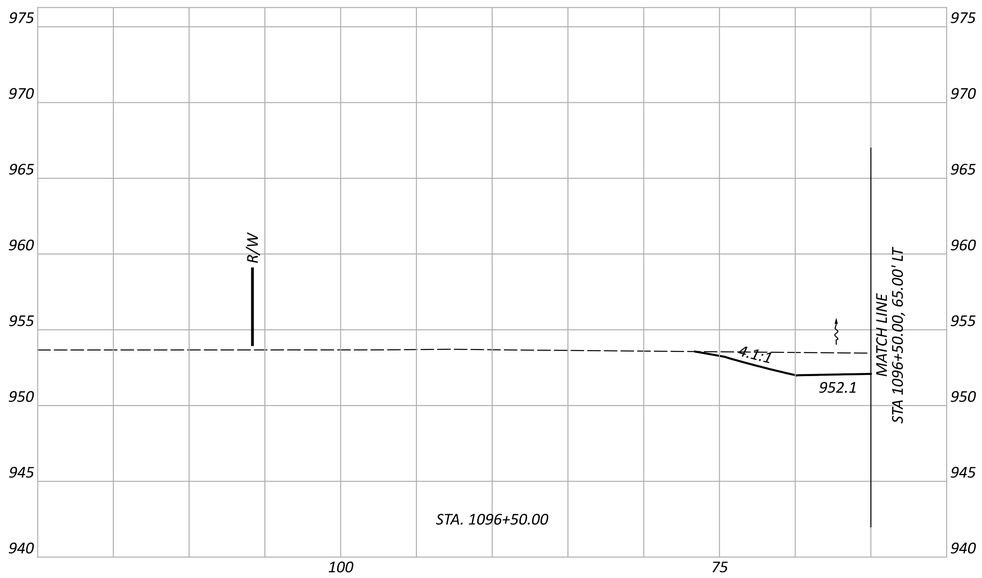
SHEET 70 TOTAL 131

LEGEND

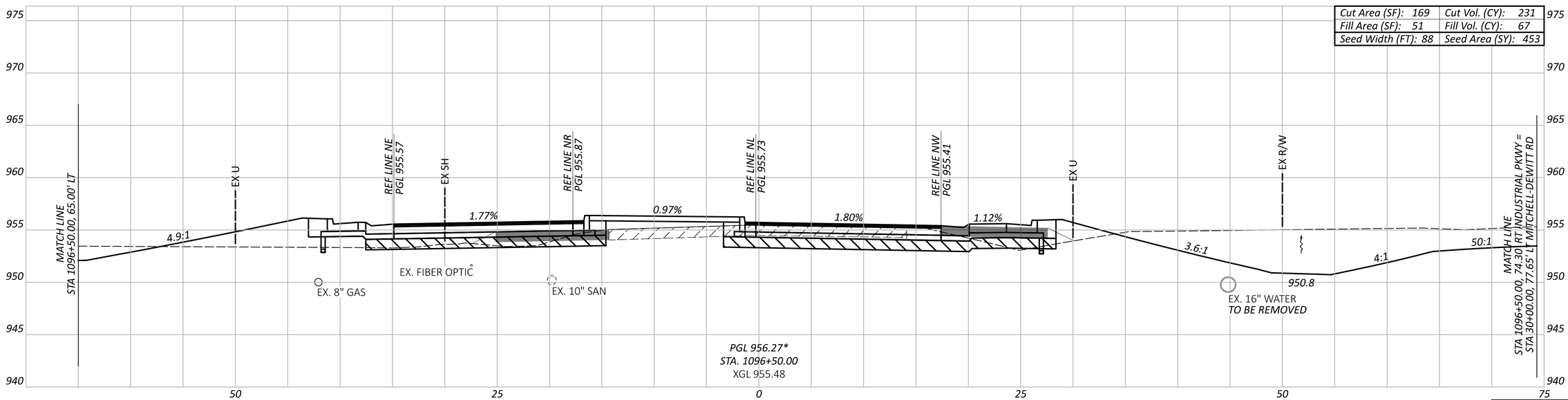
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 169	Cut Vol. (CY): 231
Fill Area (SF): 51	Fill Vol. (CY): 67
Seed Width (FT): 88	Seed Area (SY): 453



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
414	231	67

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 05 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:07 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1096+50.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 71 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

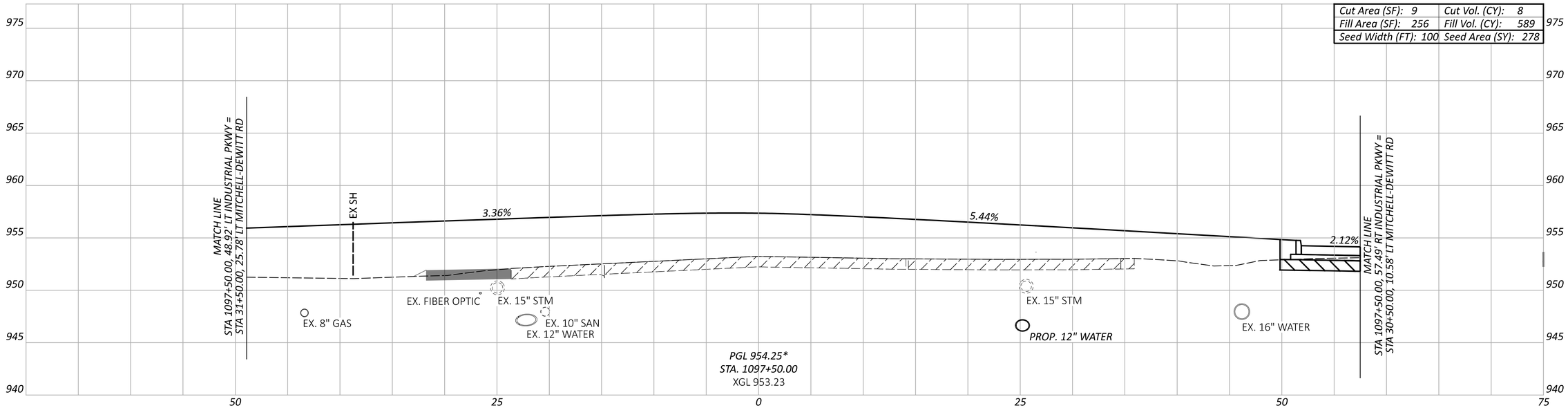
MODEL: XS_Sheet 06 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:13 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

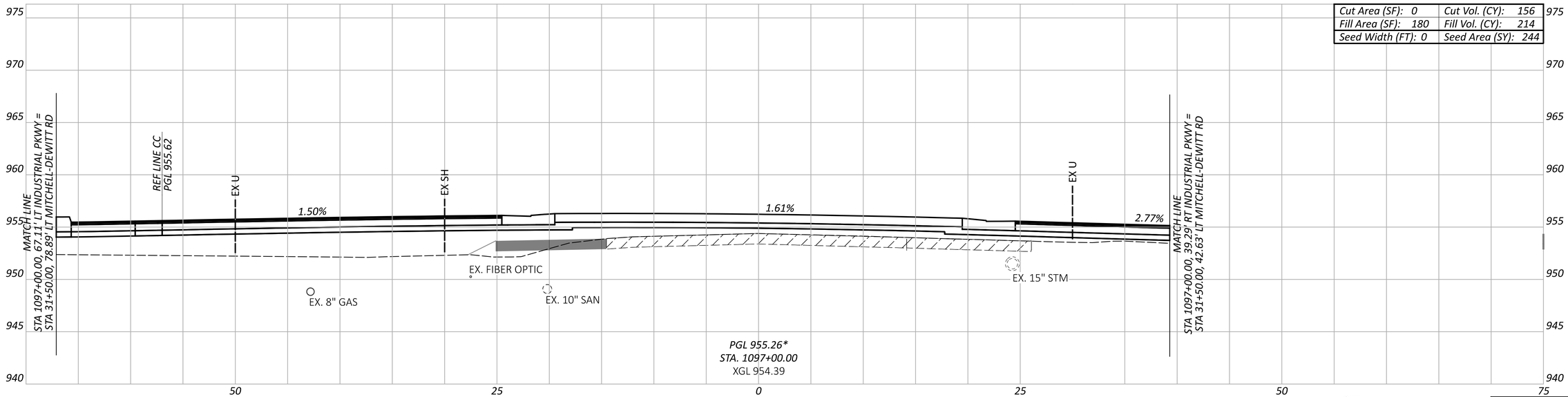
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 9	Cut Vol. (CY): 8
Fill Area (SF): 256	Fill Vol. (CY): 589
Seed Width (FT): 100	Seed Area (SY): 278



Cut Area (SF): 0	Cut Vol. (CY): 156
Fill Area (SF): 180	Fill Vol. (CY): 214
Seed Width (FT): 0	Seed Area (SY): 244

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
522	164	803

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1097+00.00 TO STA 1097+50.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 72 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

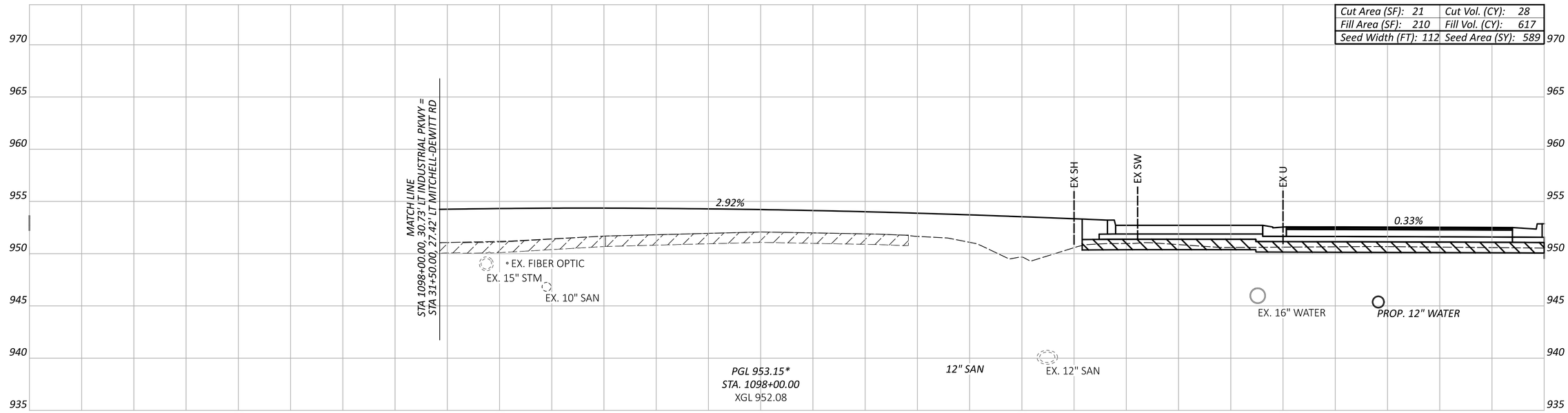
MODEL: XS_Sheet 07 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:21 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
589	28	617

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1098+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

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PROJECT ID
2022.01156

SHEET 73 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

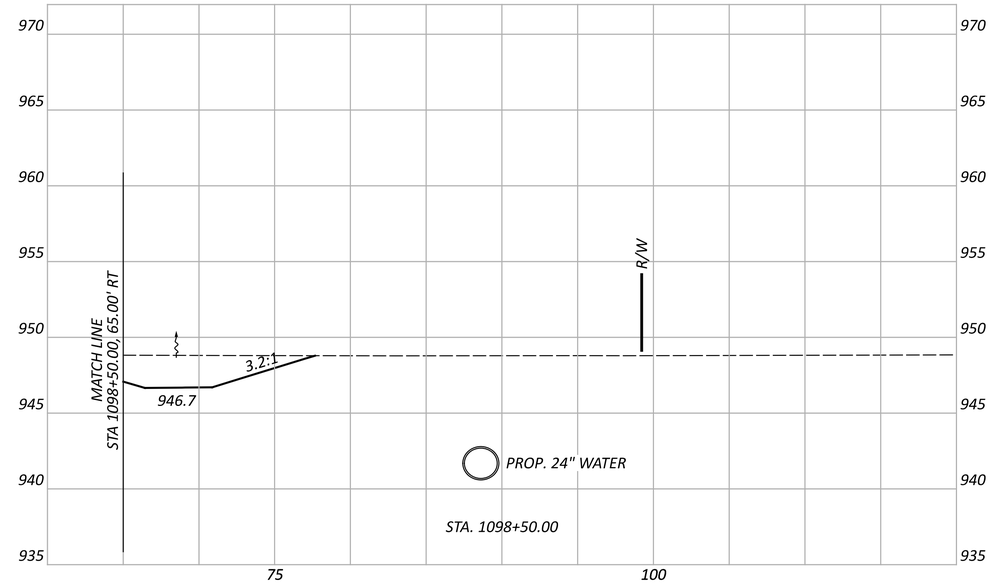
MODEL: XS_Sheet 08 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:26 AM USER: lstufler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

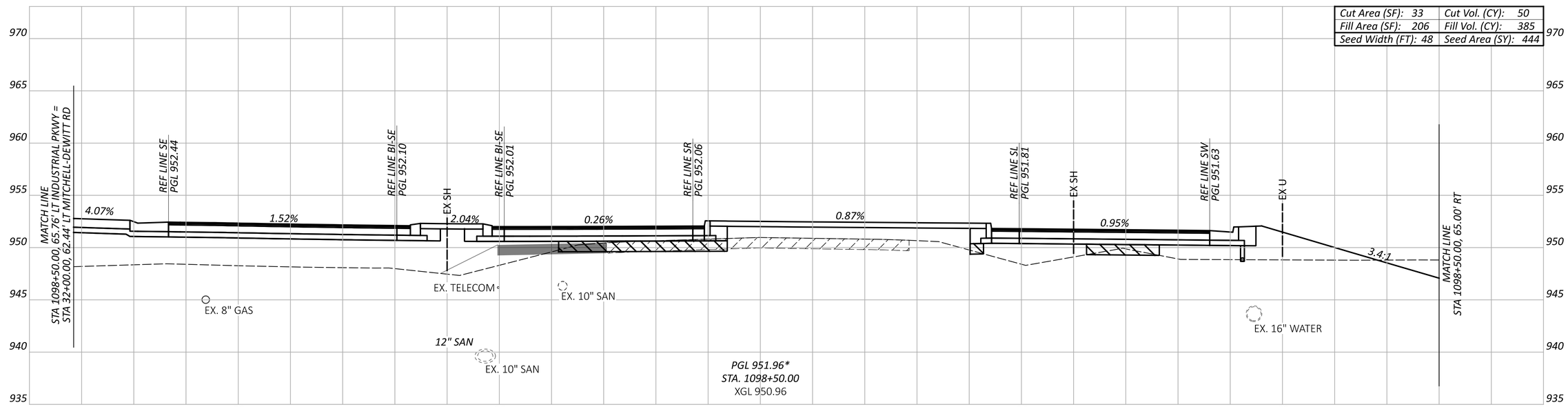
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





Cut Area (SF): 33	*Cut Vol. (CY): 50*
Fill Area (SF): 206	*Fill Vol. (CY): 385*
Seed Width (FT): 48	*Seed Area (SY): 444*

NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
444	*50*	*385*

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1098+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 74 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 09 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:33 AM USER: lstutler
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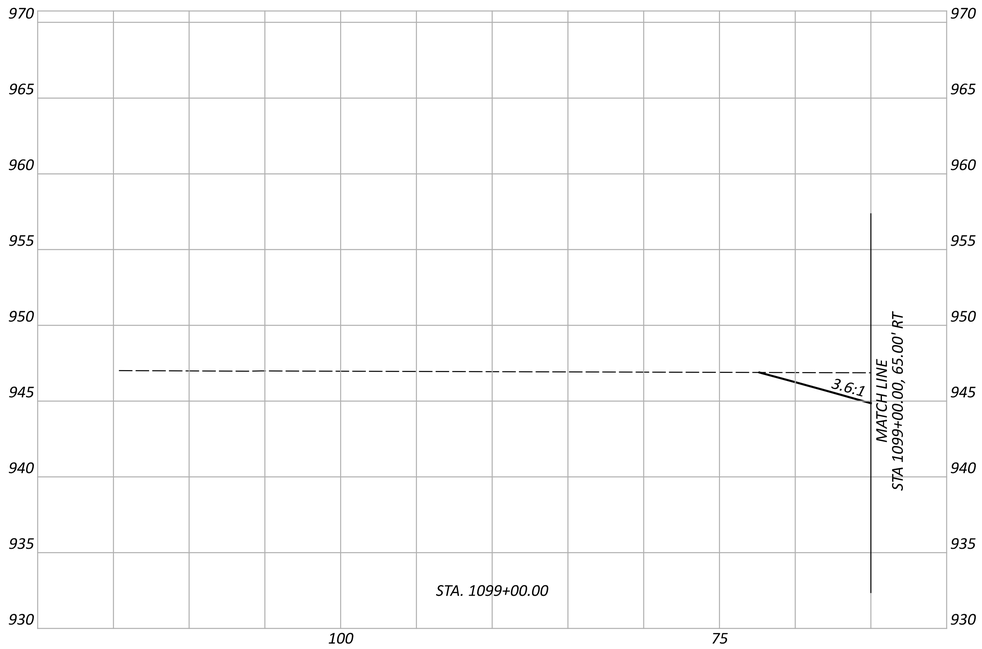
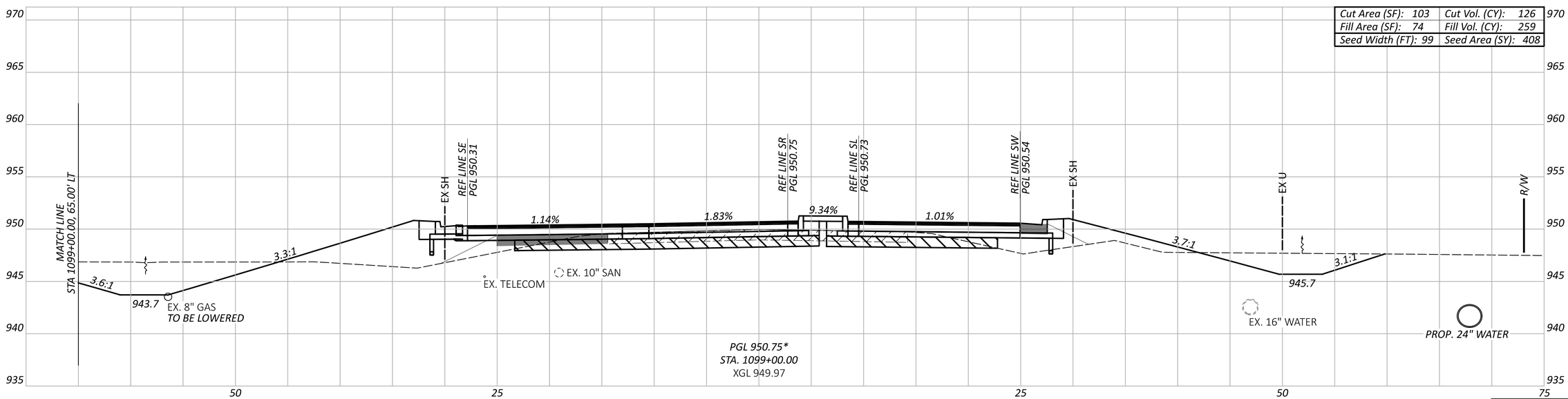
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





Cut Area (SF): 103	Cut Vol. (CY): 126
Fill Area (SF): 74	Fill Vol. (CY): 259
Seed Width (FT): 99	Seed Area (SY): 408

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
408	126	259

CROSS SECTIONS - INDUSTRIAL PKWY STA 1099+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 75 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

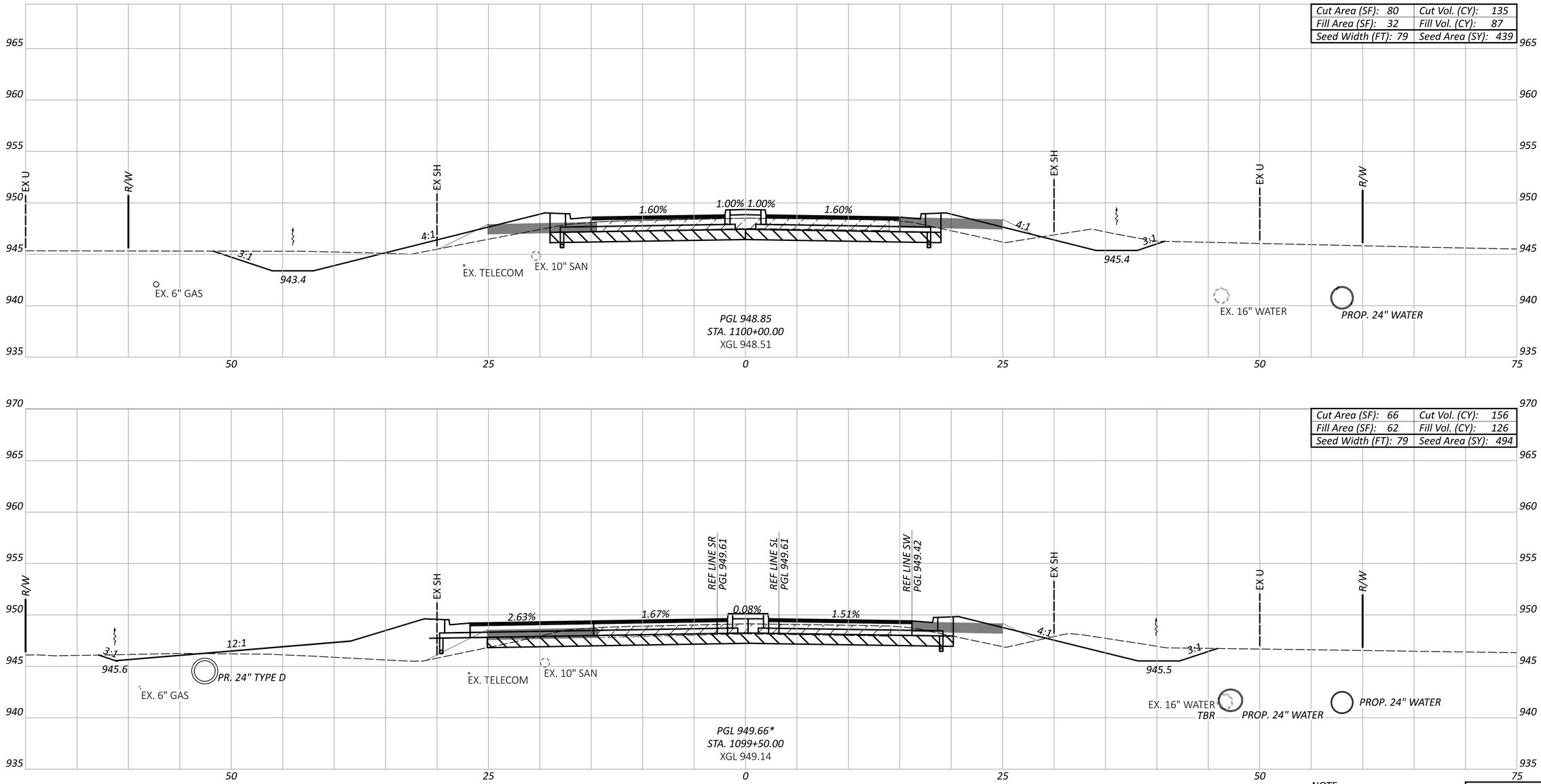
MODEL: XS_Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:39 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 80	Cut Vol. (CY): 135
Fill Area (SF): 32	Fill Vol. (CY): 87
Seed Width (FT): 79	Seed Area (SY): 439

Cut Area (SF): 66	Cut Vol. (CY): 156
Fill Area (SF): 62	Fill Vol. (CY): 126
Seed Width (FT): 79	Seed Area (SY): 494

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
933	291	213

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1099+50.00 TO STA 1100+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 76 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

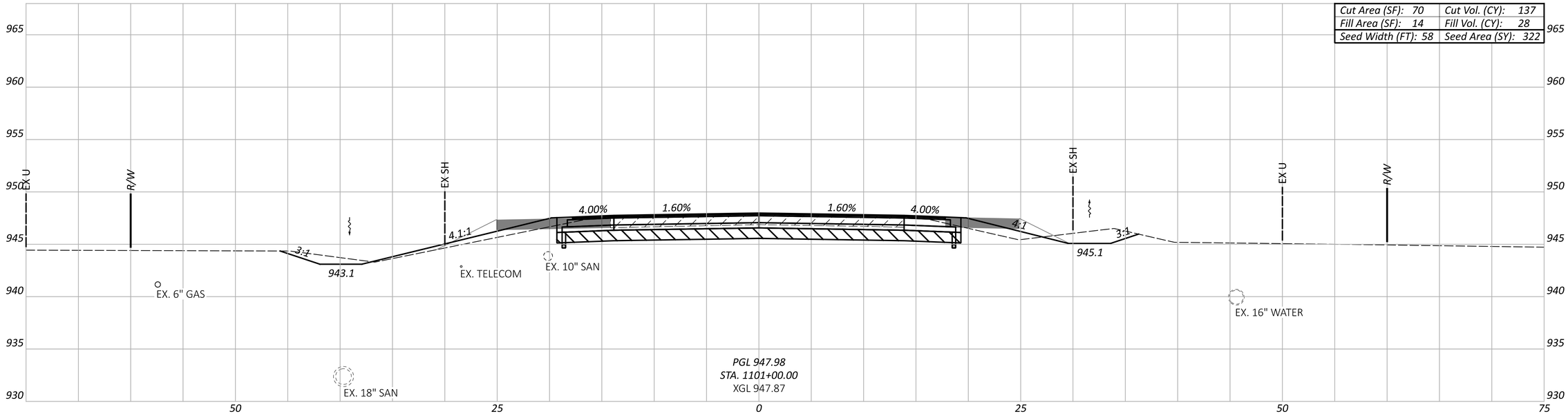
MODEL: XS_Sheet 11 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:45 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

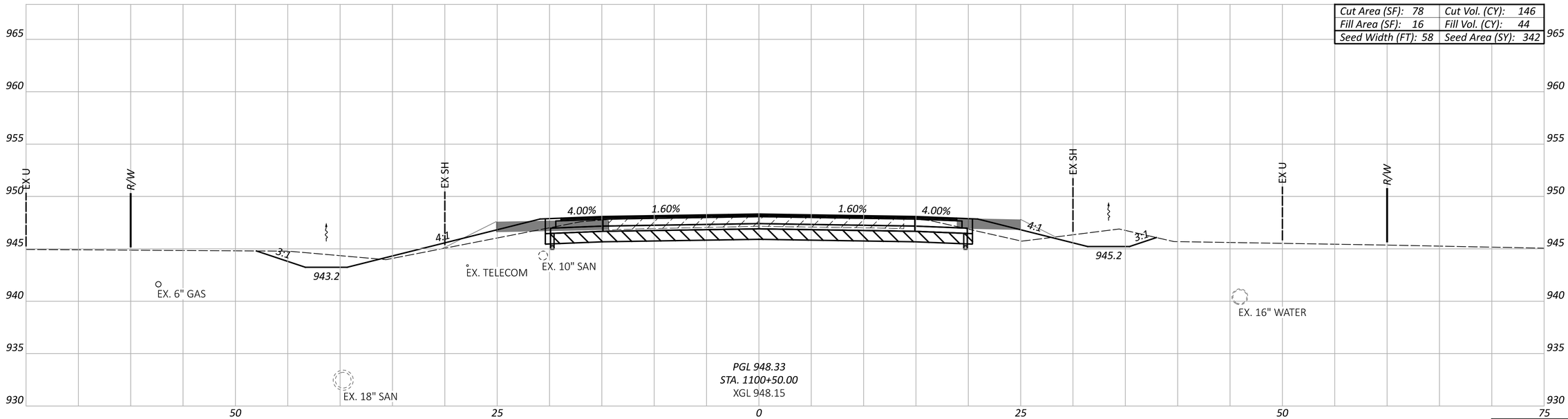
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 70	*Cut Vol. (CY): 137*
Fill Area (SF): 14	*Fill Vol. (CY): 28*
Seed Width (FT): 58	*Seed Area (SY): 322*



Cut Area (SF): 78	*Cut Vol. (CY): 146*
Fill Area (SF): 16	*Fill Vol. (CY): 44*
Seed Width (FT): 58	*Seed Area (SY): 342*

Sheet Totals		
Seeding	Cut	Fill
703	*283*	*72*

CROSS SECTIONS - INDUSTRIAL PKWY STA 1100+50.00 TO STA 1101+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

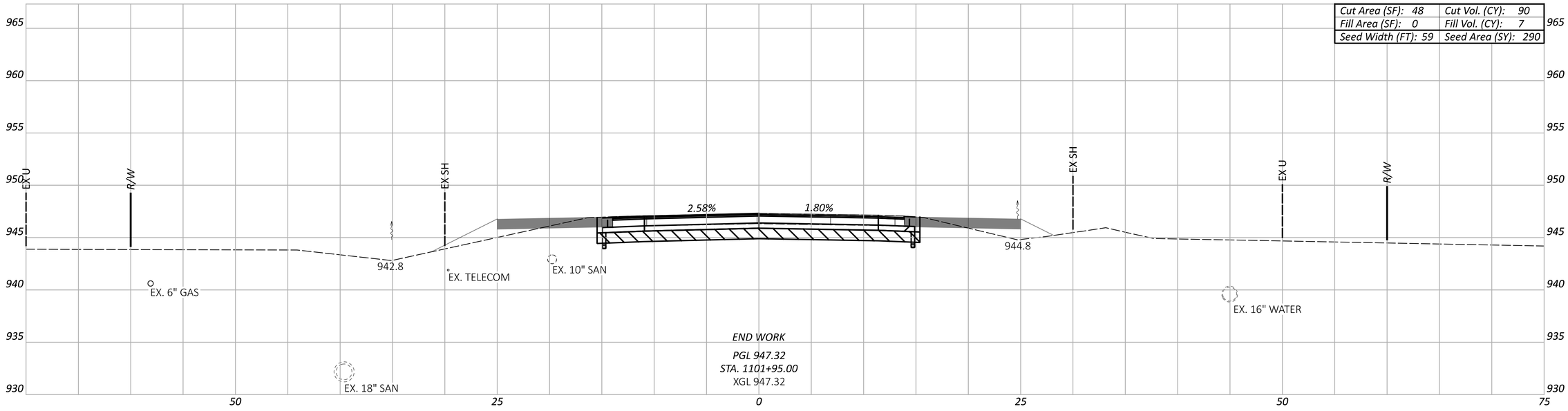
SHEET 77 | TOTAL 131

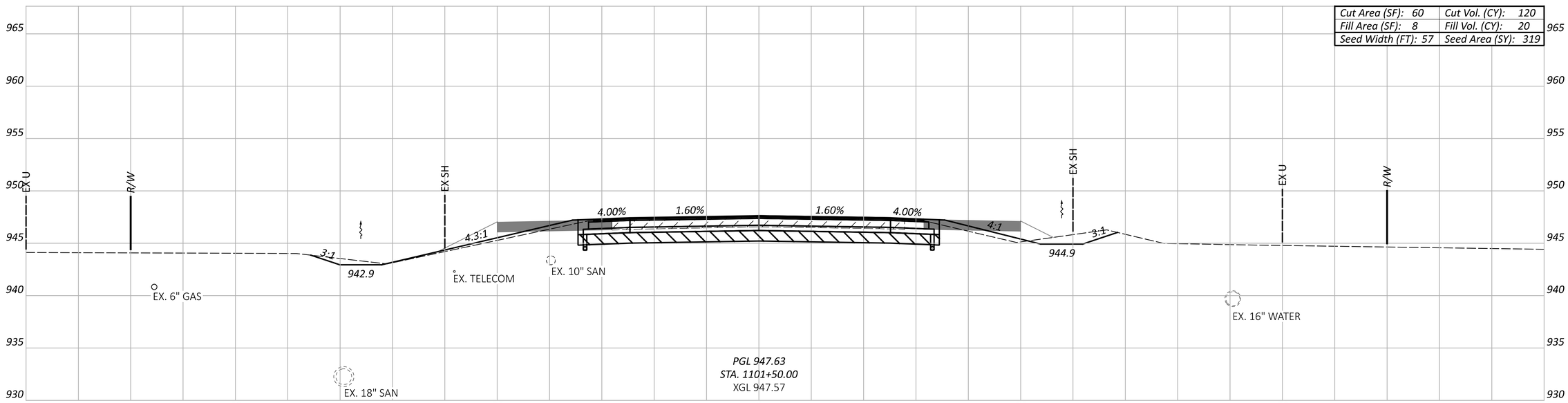
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





Sheet Totals

Seeding	Cut	Fill
609	210	27

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1101+50.00 TO STA 1101+94.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 78 | TOTAL 131

MODEL: XS_Sheet 12 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:51 AM USER: lstufler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

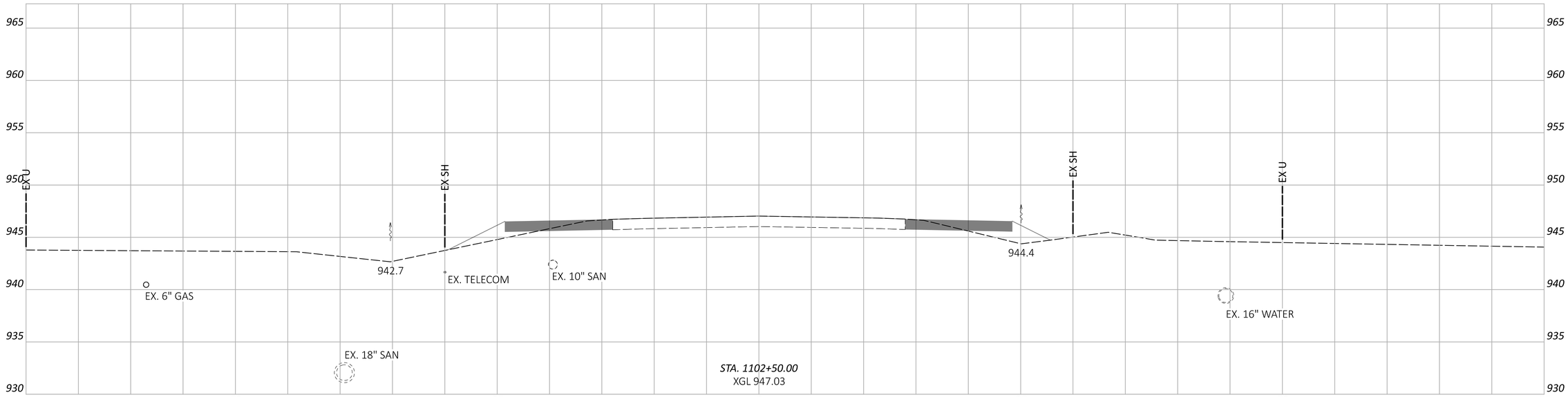
MODEL: XS_Sheet 13 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:33:57 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

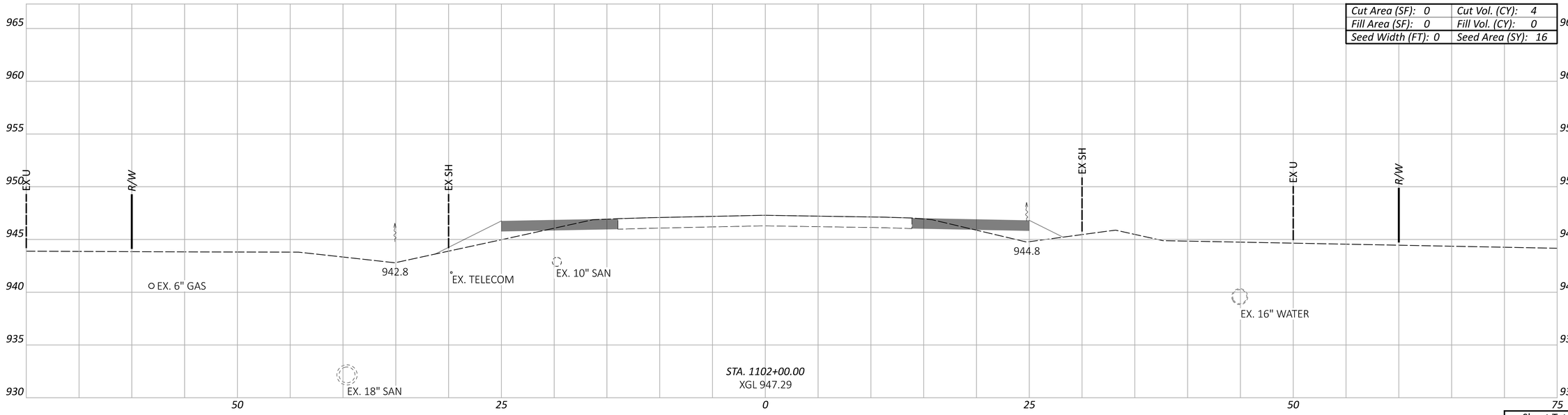
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





Cut Area (SF): 0	Cut Vol. (CY): 4
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 16

Sheet Totals		
Seeding	Cut	Fill
16	4	0

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1102+00.00 TO STA 1102+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 79 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:34:42 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GI100.dgn

HORIZONTAL SCALE IN FEET
0 7.5 15 30

ROUNDABOUT DETAILS

℄ CONST & R/W INDUSTRIAL PKWY

℄ CONST MITCHELL-DEWITT RD STA 31+07.33 = ℄ CONST & R/W INDUSTRIAL PKWY STA 1097+59.65

℄ CONST MITCHELL-DEWITT RD

REF LINE NE
REF LINE BI-NE
REF LINE NR
REF LINE NL
REF LINE NW
REF LINE EL
REF LINE ER
REF LINE WR
REF LINE WL
REF LINE SW
REF LINE CC
REF LINE SL
REF LINE SR
REF LINE BI-SE
REF LINE SE

LOW POINT
STA 101+76.10
ELEV 953.73

LOW POINT
STA 21+49.53
954.01

HIGH POINT
STA 60+29.74
953.38

HIGH POINT
STA 301+43.71
ELEV 953.09

SAG POINT

10.0' (TYP)
7.8' (TYP)
18.0'
10.0'

1.77%
1.80%
1.60%
1.25%
1.65%
1.56%
0.73%
1.31%
1.60%
1.83%
0.90%
1.01%

NOTES:

FOR SPLITTER ISLAND DETAILS SEE SHEETS 81 - 85

ALL ELEVATIONS ARE SHOWN AT SURFACE PAVEMENT UNLESS OTHERWISE NOTED.

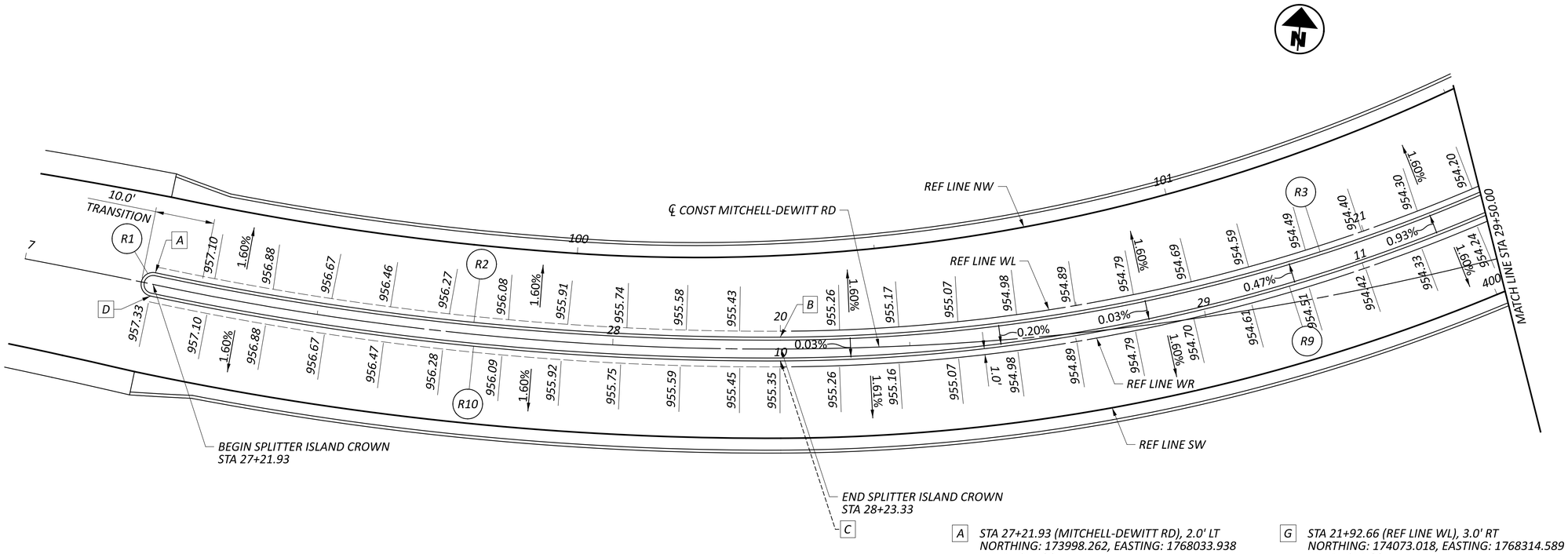
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

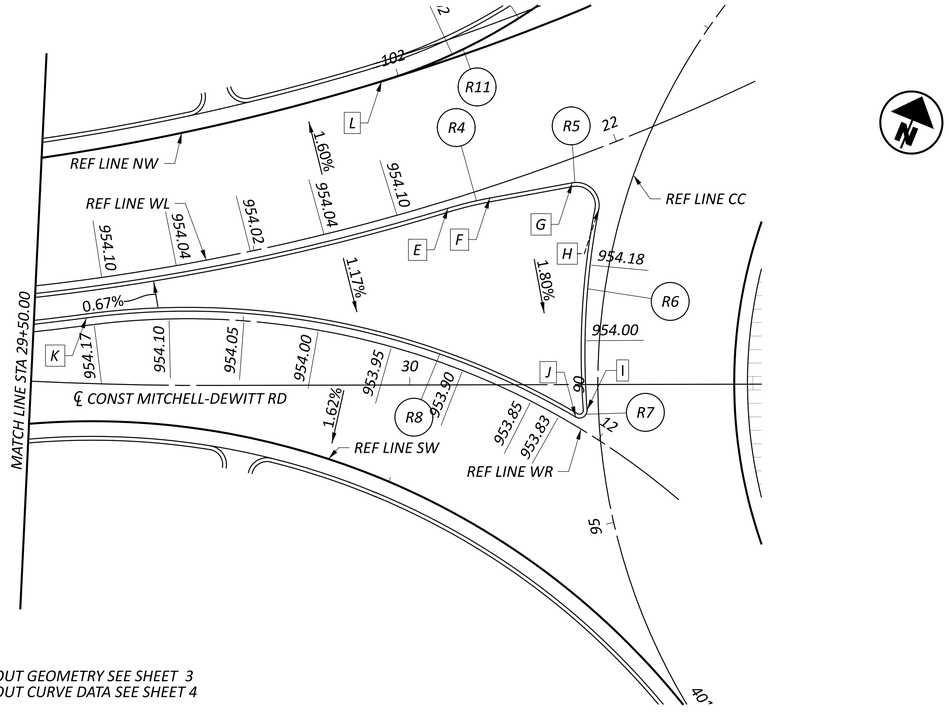
DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 80 TOTAL 131





NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4

A *STA 27+21.93 (MITCHELL-DEWITT RD), 2.0' LT*
NORTHING: 173998.262, EASTING: 1768033.938
ELEV = 957.36

B *STA 28+28.21 (MITCHELL-DEWITT RD), 2.0' LT*
NORTHING: 173997.317, EASTING: 1768139.597
ELEV = 955.38

C *STA 28+28.23 (MITCHELL-DEWITT RD), 2.0' RT*
NORTHING: 173993.338, EASTING: 1768140.001
ELEV = 955.38

D *STA 27+21.93 (MITCHELL-DEWITT RD), 2.0' RT*
NORTHING: 173994.288, EASTING: 1768033.478
ELEV = 957.36

E *STA 21+76.13 (REF LINE WL), 1.0' RT*
NORTHING: 174063.693, EASTING: 1768300.659
ELEV = 954.15

F *STA 21+81.78 (REF LINE WL), 1.4' RT*
NORTHING: 174067.033, EASTING: 1768305.265
ELEV = 954.22

G *STA 21+92.66 (REF LINE WL), 3.0' RT*
NORTHING: 174073.018, EASTING: 1768314.589
ELEV = 954.38

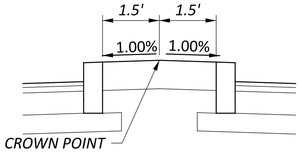
H *STA 90+22.62 (REF LINE CC), 3.0' LT*
NORTHING: 174071.130, EASTING: 1768319.141
ELEV = 954.37

I *STA 95+15.07 (REF LINE CC), 1.5' LT*
NORTHING: 174046.007, EASTING: 1768327.739
ELEV = 953.85

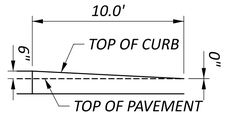
J *STA 11+95.87 (REF LINE WR), 1.0' LT*
NORTHING: 174044.570, EASTING: 1768326.701
ELEV = 953.82

K *STA 11+29.41 (REF LINE WR), 1.0' LT*
NORTHING: 174032.253, EASTING: 1768261.975
ELEV = 954.17

L *STA 101+97.68 (REF LINE NW), 0.0' LT*
NORTHING: 174075.882, EASTING: 1768286.215
ELEV = 953.83



SPLITTER ISLAND CROWN DETAIL



NOTEASTING:
THE BEGINNING OF THE SPLITTER ISLAND SHALL TRANSITION FROM A HEIGHT OF 0" TO 6" OVER THE COURSE OF 10 FEET.

SPLITTER ISLAND TRANSITION DETAIL

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	2.00	180° 00' 00"	0.00	6.28
R2	498.00	12° 10' 53"	53.14	105.88
R3	301.00	33° 38' 17"	90.99	176.72
R4	50.00	06° 31' 24"	2.85	5.69
R5	3.00	111° 24' 09"	4.40	5.83
R6	100.00	15° 13' 51"	13.37	26.58
R7	1.00	124° 47' 07"	1.91	2.18
R8	101.00	38° 04' 26"	34.85	67.12
R9	305.00	24° 13' 54"	65.47	128.99
R10	502.00	12° 10' 53"	53.57	106.73
R11	75.00	99° 19' 52"	88.32	130.02

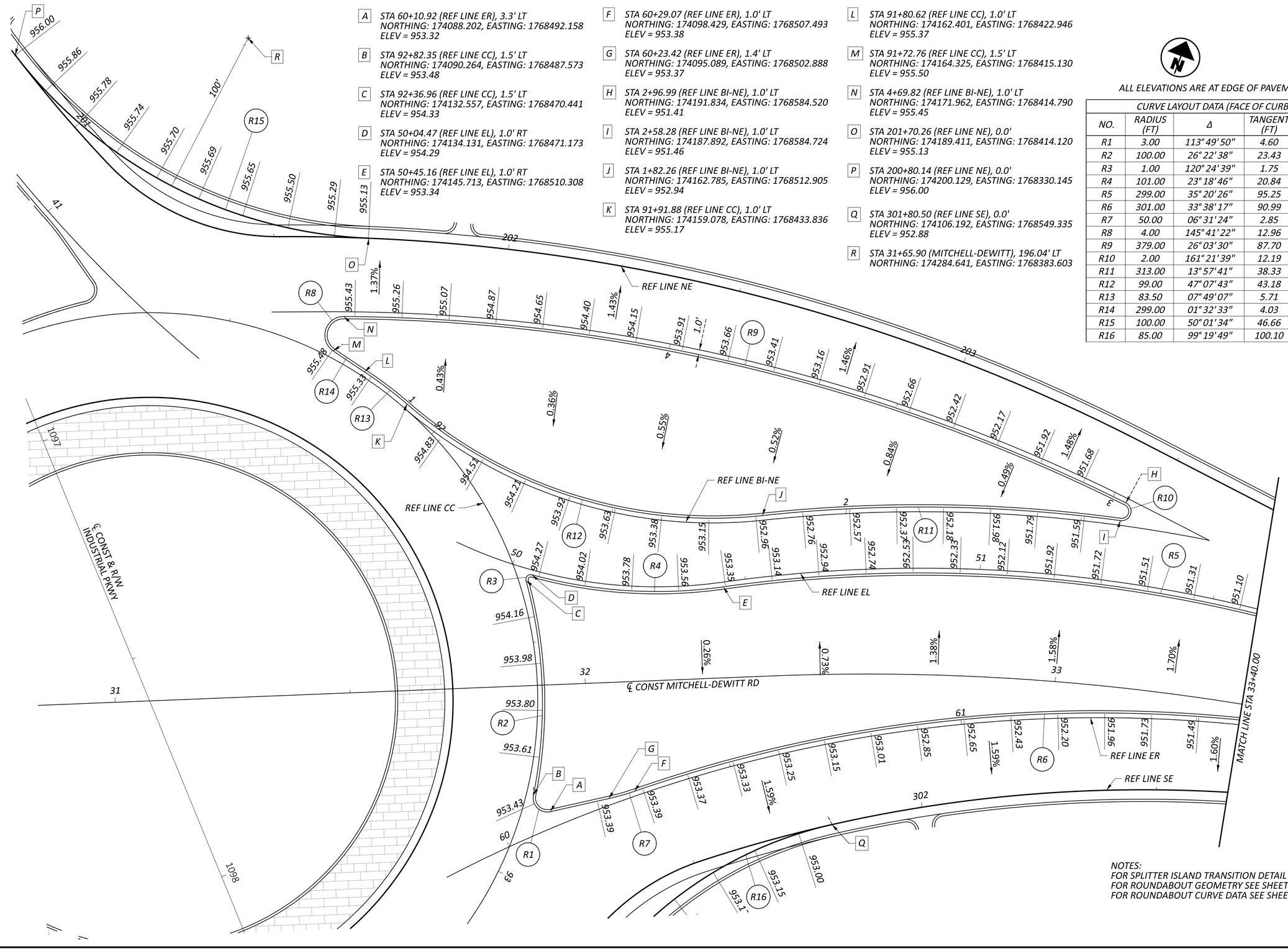
HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL
WEST APPROACH

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_WEST PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:34:51 AM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GI001.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 81 TOTAL 131



A STA 60+10.92 (REF LINE ER), 3.3' LT
NORTHING: 174088.202, EASTING: 1768492.158
ELEV = 953.32

B STA 92+82.35 (REF LINE CC), 1.5' LT
NORTHING: 174090.264, EASTING: 1768487.573
ELEV = 953.48

C STA 92+36.96 (REF LINE CC), 1.5' LT
NORTHING: 174132.557, EASTING: 1768470.441
ELEV = 954.33

D STA 50+04.47 (REF LINE EL), 1.0' RT
NORTHING: 174134.131, EASTING: 1768471.173
ELEV = 954.29

E STA 50+45.16 (REF LINE EL), 1.0' RT
NORTHING: 174145.713, EASTING: 1768510.308
ELEV = 953.34

F STA 60+29.07 (REF LINE ER), 1.0' LT
NORTHING: 174098.429, EASTING: 1768507.493
ELEV = 953.38

G STA 60+23.42 (REF LINE ER), 1.4' LT
NORTHING: 174095.089, EASTING: 1768502.888
ELEV = 953.37

H STA 2+96.99 (REF LINE BI-NE), 1.0' LT
NORTHING: 174191.834, EASTING: 1768584.520
ELEV = 951.41

I STA 2+58.28 (REF LINE BI-NE), 1.0' LT
NORTHING: 174187.892, EASTING: 1768584.724
ELEV = 951.46

J STA 1+82.26 (REF LINE BI-NE), 1.0' LT
NORTHING: 174162.785, EASTING: 1768512.905
ELEV = 952.94

K STA 91+91.88 (REF LINE CC), 1.0' LT
NORTHING: 174159.078, EASTING: 1768433.836
ELEV = 955.17

L STA 91+80.62 (REF LINE CC), 1.0' LT
NORTHING: 174162.401, EASTING: 1768422.946
ELEV = 955.37

M STA 91+72.76 (REF LINE CC), 1.5' LT
NORTHING: 174164.325, EASTING: 1768415.130
ELEV = 955.50

N STA 4+69.82 (REF LINE BI-NE), 1.0' LT
NORTHING: 174171.962, EASTING: 1768414.790
ELEV = 955.45

O STA 201+70.26 (REF LINE NE), 0.0'
NORTHING: 174189.411, EASTING: 1768414.120
ELEV = 955.13

P STA 200+80.14 (REF LINE NE), 0.0'
NORTHING: 174200.129, EASTING: 1768330.145
ELEV = 956.00

Q STA 301+80.50 (REF LINE SE), 0.0'
NORTHING: 174106.192, EASTING: 1768549.335
ELEV = 952.88

R STA 31+65.90 (MITCHELL-DEWITT), 196.04' LT
NORTHING: 174284.641, EASTING: 1768383.603

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

CURVE LAYOUT DATA (FACE OF CURB)

NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	3.00	113°49'50"	4.60	5.96
R2	100.00	26°22'38"	23.43	46.04
R3	1.00	120°24'39"	1.75	2.10
R4	101.00	23°18'46"	20.84	41.10
R5	299.00	35°20'26"	95.25	184.43
R6	301.00	33°38'17"	90.99	176.72
R7	50.00	06°31'24"	2.85	5.69
R8	4.00	145°41'22"	12.96	10.17
R9	379.00	26°03'30"	87.70	172.37
R10	2.00	161°21'39"	12.19	5.63
R11	313.00	13°57'41"	38.33	76.27
R12	99.00	47°07'43"	43.18	81.43
R13	83.50	07°49'07"	5.71	11.39
R14	299.00	01°32'33"	4.03	8.05
R15	100.00	50°01'34"	46.66	87.31
R16	85.00	99°19'49"	100.10	147.36

NOTES:
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL EAST APPROACH

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_EAST 1 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:34:53 AM USER: lstutler
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DESIGN AGENCY
STRUCTUREPOINT LLC
MEMBER OF THE ASCE GROUP

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 82 TOTAL 131

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	2.00	180° 00' 00"	0.00	6.28
R2	498.00	12° 46' 37"	55.76	111.05

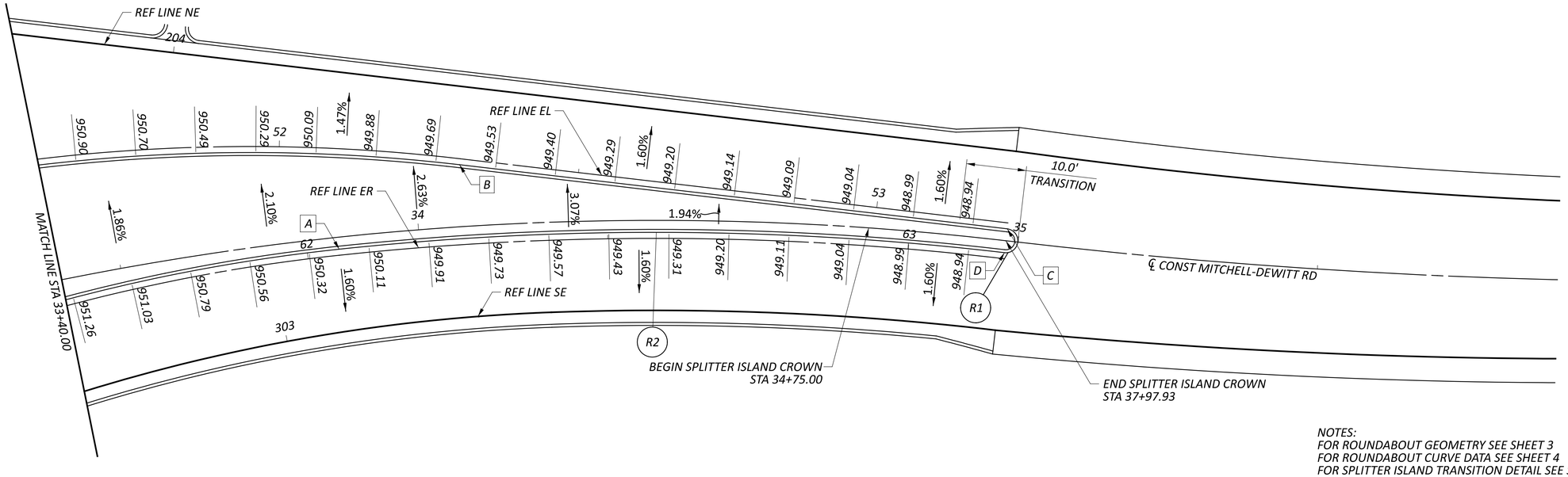
ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

A STA 62+05.30 (REF LINE ER), 1.0' LT
NORTHING: 174164.813, EASTING: 1768668.638
ELEV = 950.20

B STA 52+30.20 (REF LINE EL), 1.0' RT
NORTHING: 174178.706, EASTING: 1768688.800
ELEV = 949.61

C STA 53+21.98 (REF LINE EL), 1.0' RT
NORTHING: 174167.207, EASTING: 1768779.856
ELEV = 948.90

D STA 63+16.03 (REF LINE ER), 1.0' LT
NORTHING: 174163.238, EASTING: 1768779.354
ELEV = 948.90



NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR SPLITTER ISLAND CROWN DETAIL SEE SHEET 81

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL EAST APPROACH

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_EAST 2 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:34:55 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GI001.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 83 | TOTAL 131

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	2.00	180° 00' 00"	0.00	6.28
R2	301.00	19° 17' 45"	51.17	101.37
R3	50.00	06° 31' 24"	2.85	5.69
R4	3.00	111° 24' 09"	4.40	5.83
R5	100.00	15° 13' 50"	13.37	26.58
R6	1.00	124° 47' 07"	1.91	2.18
R7	101.00	38° 04' 26"	34.85	67.12
R8	305.00	09° 53' 22"	26.39	52.64
R9	75.00	99° 19' 52"	88.32	130.02

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

A STA 1094+75.00 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' LT
NORTHING: 174292.682, EASTING: 1768213.692
ELEV = 959.83

B STA 1095+57.04 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' LT
NORTHING: 174232.079, EASTING: 1768268.988
ELEV = 958.11

C STA 41+01.03 (REF LINE NR), 1.0' RT
NORTHING: 174170.001, EASTING: 1768348.521
ELEV = 955.84

D STA 41+06.69 (REF LINE NR), 1.4' RT
NORTHING: 174176.021, EASTING: 1768353.367
ELEV = 955.82

E STA 41+17.56 (REF LINE NR), 3.0' RT
NORTHING: 174160.690, EASTING: 1768362.460
ELEV = 955.83

F STA 91+19.83 (REF LINE CC), 3.0' LT
NORTHING: 174155.733, EASTING: 1768362.412
ELEV = 955.87

G STA 90+93.96 (REF LINE CC), 1.5' LT
NORTHING: 174138.218, EASTING:1768342.520
ELEV = 955.68

H STA 31+19.27 (REF LINE NL), 1.0' LT
NORTHING: 174138.629, EASTING: 1768340.796
ELEV = 955.62

I STA 30+52.82 (REF LINE NL), 1.0' LT
NORTHING: 174193.742, EASTING: 1768304.689
ELEV = 956.51

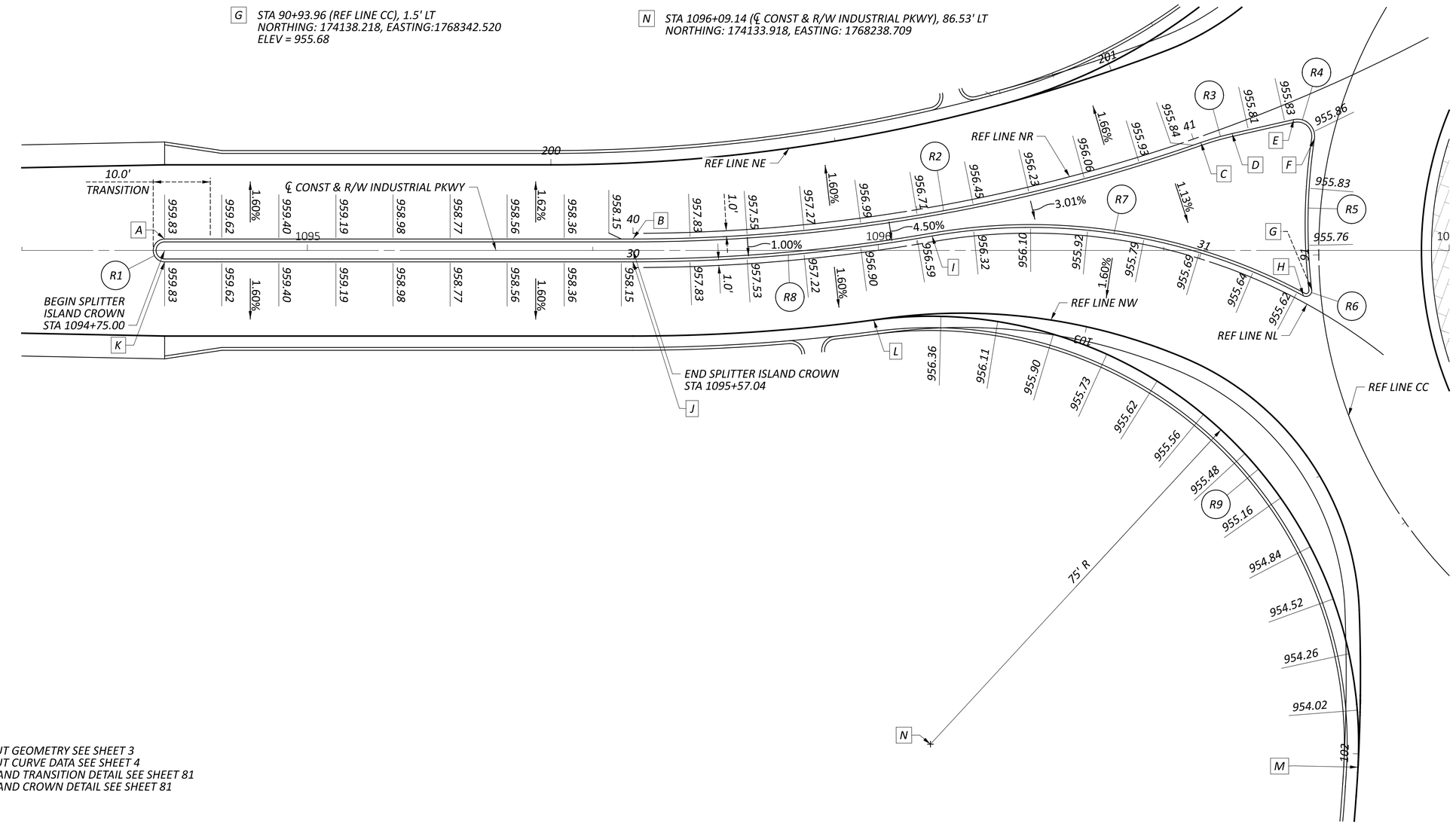
J STA 1095+57.04 (INDUSTRIAL), 2.0' RT
NORTHING: 174229.383, EASTING: 1768266.033
ELEV = 958.11

K STA 1094+75.00 (INDUSTRIAL), 2.0' RT
NORTHING: 174289.986, EASTING: 1768210.737
ELEV = 959.83

L STA 30+40.69 (REF LINE NL), 12.0' RT
NORTHING: 174191.369, EASTING: 1768286.921
ELEV = 956.61

M STA 101+97.68 (REF LINE NW), 0.0'
NORTHING: 174075.882, EASTING: 1768286.215
ELEV = 954.17

N STA 1096+09.14 (℄ CONST & R/W INDUSTRIAL PKWY), 86.53' LT
NORTHING: 174133.918, EASTING: 1768238.709



NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR SPLITTER ISLAND CROWN DETAIL SEE SHEET 81

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL NORTH APPROACH

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 84 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_SOUTH PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:34:58 AM USER: lstutler
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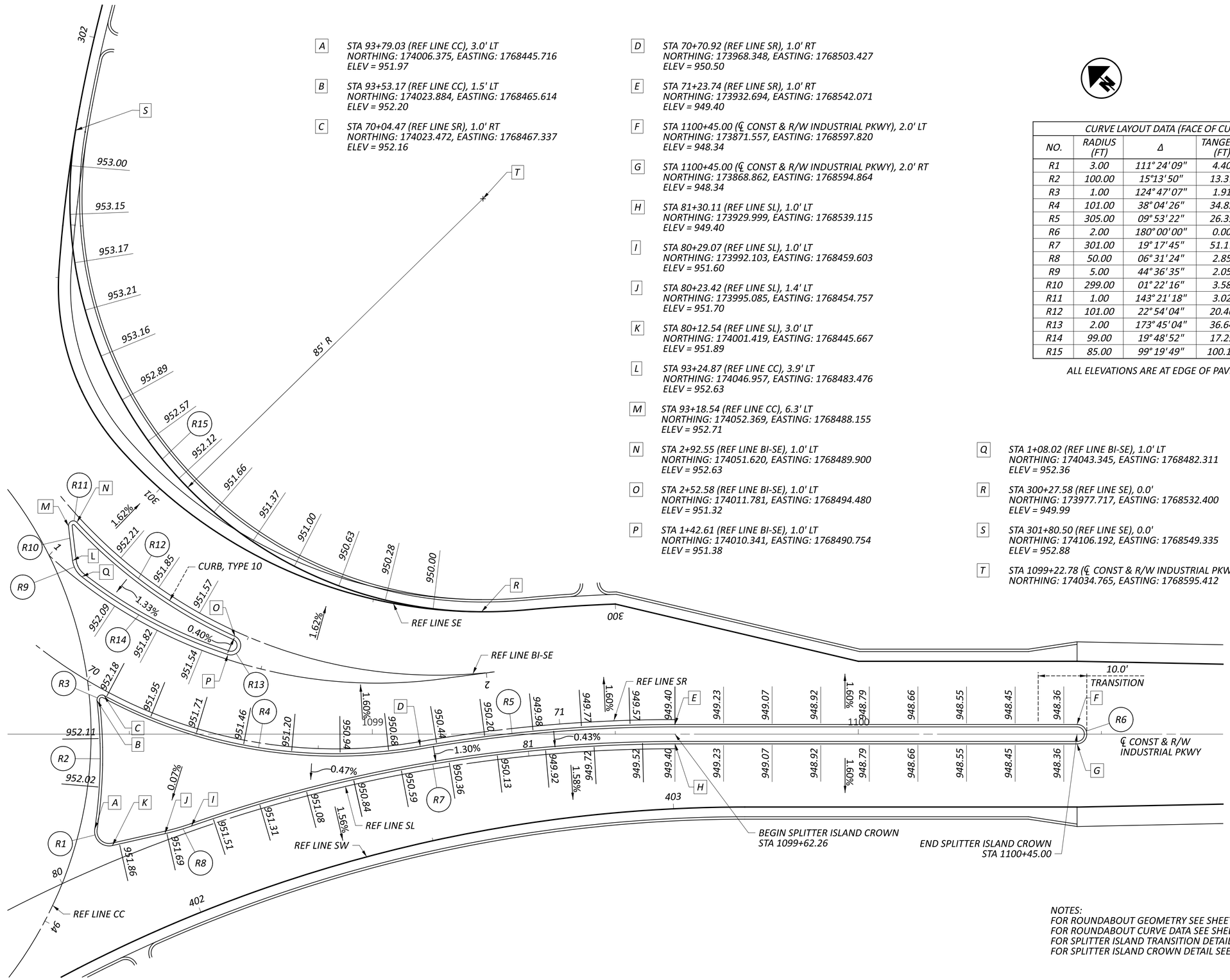


A STA 93+79.03 (REF LINE CC), 3.0' LT
NORTHING: 174006.375, EASTING: 1768445.716
ELEV = 951.97

B STA 93+53.17 (REF LINE CC), 1.5' LT
NORTHING: 174023.884, EASTING: 1768465.614
ELEV = 952.20

C STA 70+04.47 (REF LINE SR), 1.0' RT
NORTHING: 174023.472, EASTING: 1768467.337
ELEV = 952.16

D STA 70+70.92 (REF LINE SR), 1.0' RT
NORTHING: 173968.348, EASTING: 1768503.427
ELEV = 950.50

E STA 71+23.74 (REF LINE SR), 1.0' RT
NORTHING: 173932.694, EASTING: 1768542.071
ELEV = 949.40

F STA 1100+45.00 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' LT
NORTHING: 173871.557, EASTING: 1768597.820
ELEV = 948.34

G STA 1100+45.00 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' RT
NORTHING: 173868.862, EASTING: 1768594.864
ELEV = 948.34

H STA 81+30.11 (REF LINE SL), 1.0' LT
NORTHING: 173929.999, EASTING: 1768539.115
ELEV = 949.40

I STA 80+29.07 (REF LINE SL), 1.0' LT
NORTHING: 173992.103, EASTING: 1768459.603
ELEV = 951.60

J STA 80+23.42 (REF LINE SL), 1.4' LT
NORTHING: 173995.085, EASTING: 1768454.757
ELEV = 951.70

K STA 80+12.54 (REF LINE SL), 3.0' LT
NORTHING: 174001.419, EASTING: 1768445.667
ELEV = 951.89

L STA 93+24.87 (REF LINE CC), 3.9' LT
NORTHING: 174046.957, EASTING: 1768483.476
ELEV = 952.63

M STA 93+18.54 (REF LINE CC), 6.3' LT
NORTHING: 174052.369, EASTING: 1768488.155
ELEV = 952.71

N STA 2+92.55 (REF LINE BI-SE), 1.0' LT
NORTHING: 174051.620, EASTING: 1768489.900
ELEV = 952.63

O STA 2+52.58 (REF LINE BI-SE), 1.0' LT
NORTHING: 174011.781, EASTING: 1768494.480
ELEV = 951.32

P STA 1+42.61 (REF LINE BI-SE), 1.0' LT
NORTHING: 174010.341, EASTING: 1768490.754
ELEV = 951.38

Q STA 1+08.02 (REF LINE BI-SE), 1.0' LT
NORTHING: 174043.345, EASTING: 1768482.311
ELEV = 952.36

R STA 300+27.58 (REF LINE SE), 0.0'
NORTHING: 173977.717, EASTING: 1768532.400
ELEV = 949.99

S STA 301+80.50 (REF LINE SE), 0.0'
NORTHING: 174106.192, EASTING: 1768549.335
ELEV = 952.88

T STA 1099+22.78 (℄ CONST & R/W INDUSTRIAL PKWY), 110.19' LT
NORTHING: 174034.765, EASTING: 1768595.412

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	3.00	111°24'09"	4.40	5.83
R2	100.00	15°13'50"	13.37	26.58
R3	1.00	124°47'07"	1.91	2.18
R4	101.00	38°04'26"	34.85	67.12
R5	305.00	09°53'22"	26.39	52.64
R6	2.00	180°00'00"	0.00	6.28
R7	301.00	19°17'45"	51.17	101.37
R8	50.00	06°31'24"	2.85	5.69
R9	5.00	44°36'35"	2.05	3.89
R10	299.00	01°22'16"	3.58	7.15
R11	1.00	143°21'18"	3.02	2.50
R12	101.00	22°54'04"	20.46	40.37
R13	2.00	173°45'04"	36.64	6.07
R14	99.00	19°48'52"	17.29	34.24
R15	85.00	99°19'49"	100.10	147.36

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

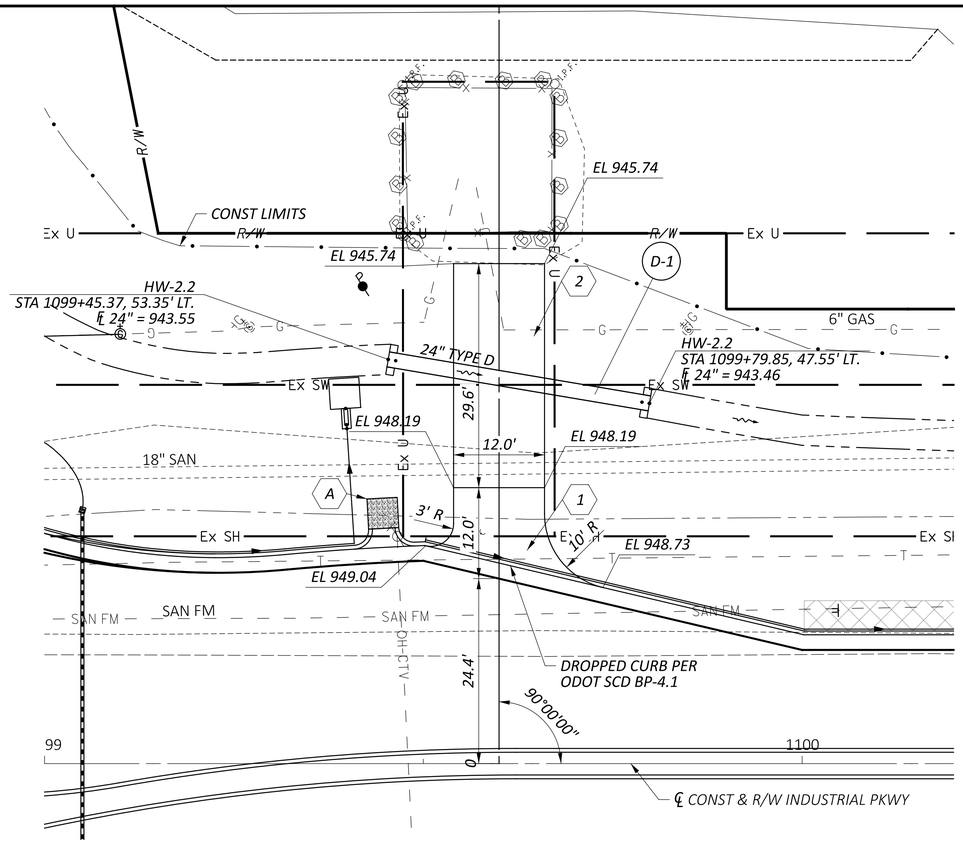
NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR SPLITTER ISLAND CROWN DETAIL SEE SHEET 81

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL SOUTH APPROACH

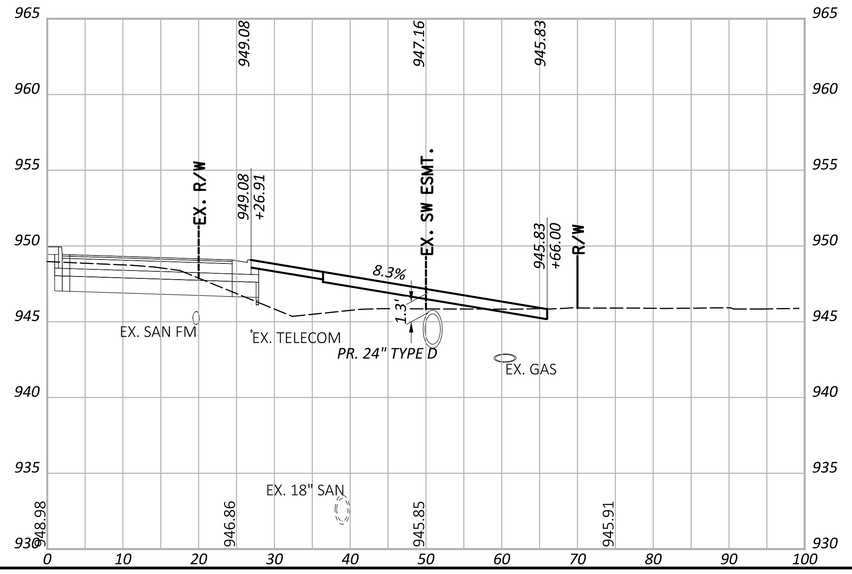
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 85 TOTAL 131

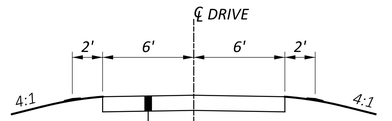


COMMERCIAL DRIVE
INDUSTRIAL PKWY
STA. 1099+60.00 LT

NOTE:
FOR QUANTITIES SEE SHEET 32



COMMERCIAL DRIVE SECTION
EXISTING AGGREGATE DRIVE



1 *ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P*
OR
2 *ITEM 304 - 8" AGGREGATE BASE*

HORIZONTAL SCALE IN FEET
0 5 10 20

DRIVEWAY DETAILS
INDUSTRIAL PKWY - STA 1099+60.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:13 AM USER: lstutler
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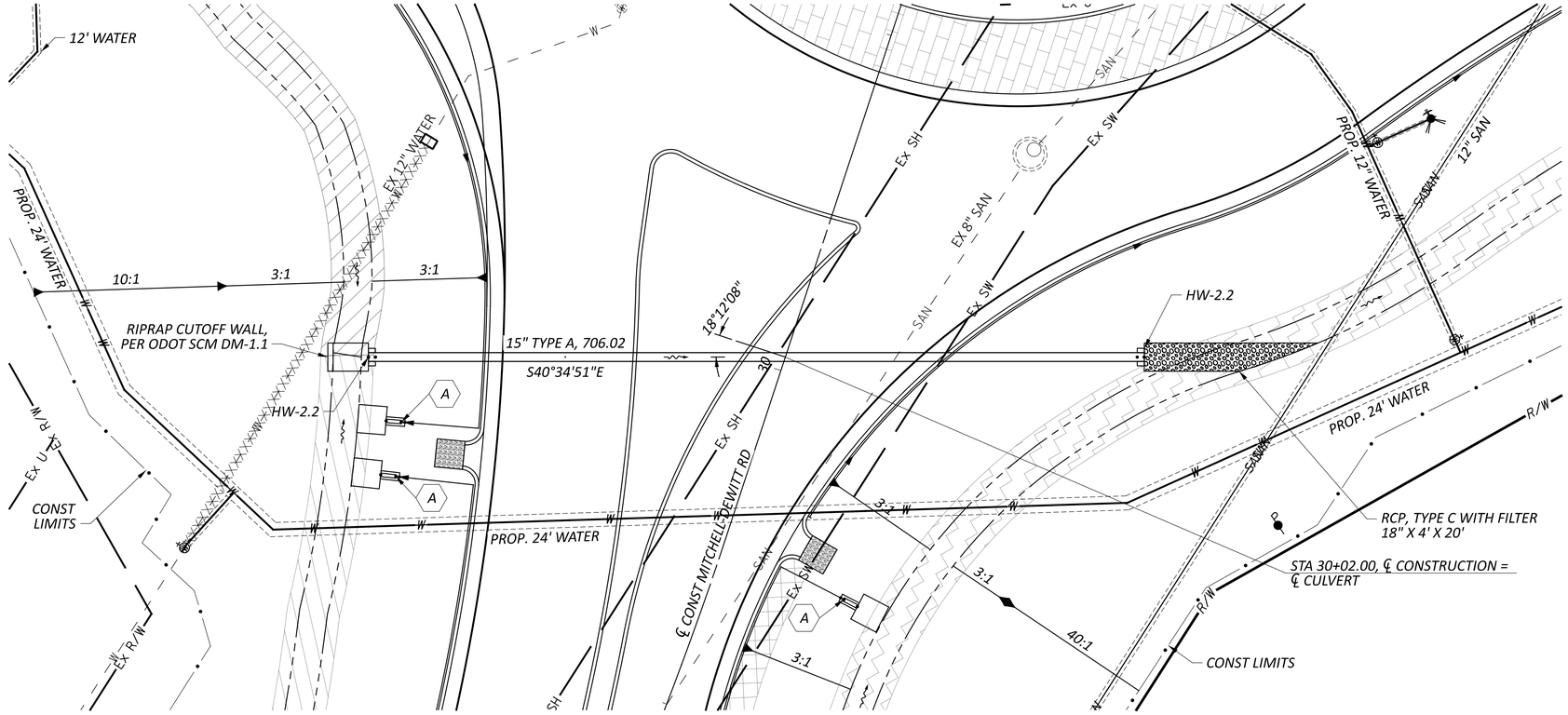
DESIGN AGENCY
STRUCTUREPOINT LLC

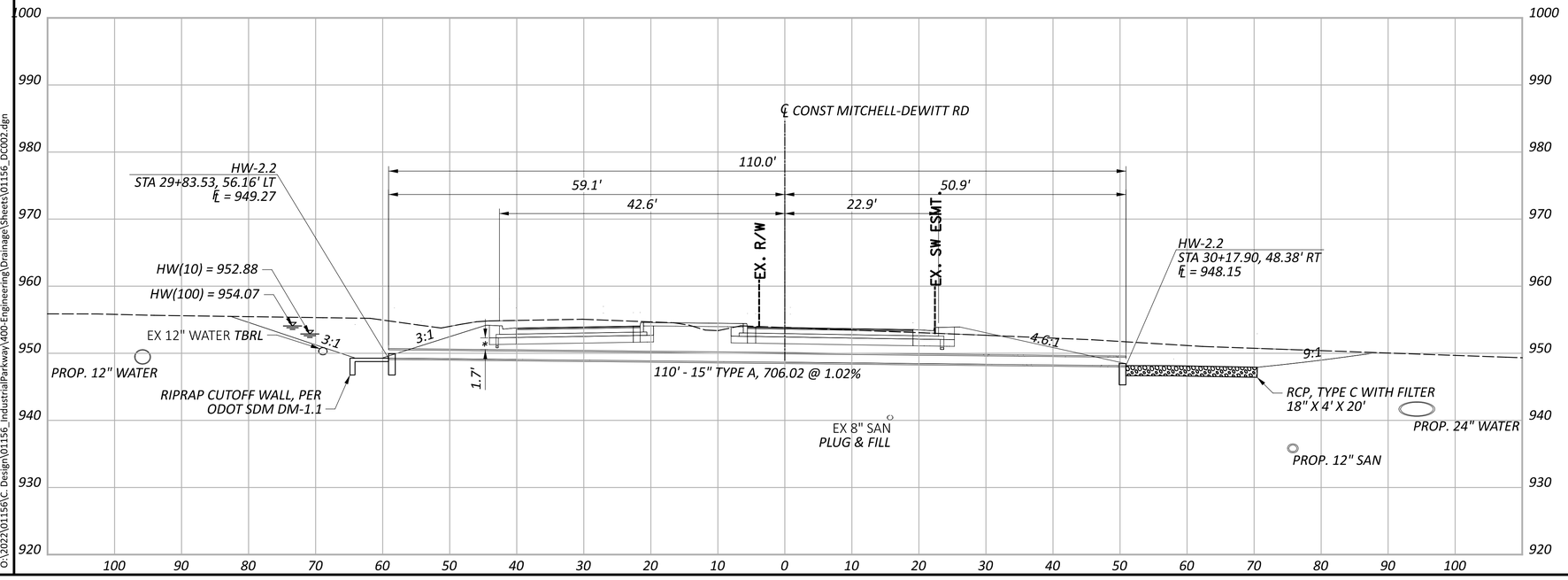
DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 86 TOTAL 131





ESTIMATED QUANTITIES

ITEM	QTY	UNIT	DESCRIPTION
601	3	SY	RIPRAP, TYPE D
657	4	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
659	0.50	CY	CONCRETE MASONRY
659	110	FT	15" CONDUIT, TYPE A, 706.02

HYDRAULIC DATA

DRAINAGE AREA = 4.036 ACRES

Q (10) = 9.60 CFS V (10) = 7.86 FT/S HW (10) = 952.88 FT

Q (100) = 12.90 CFS V (100) = 9.06 FT/S HW (100) = 954.07 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: LEVEL 1

pH: 7.8

PROPOSED STRUCTURE

TYPE: 15" CONDUIT, TYPE A, 706.02

SKEW: 18°12'08" RT

ALIGNMENT: SKEWED

HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL STA 30+02.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:21 AM USER: lstutler
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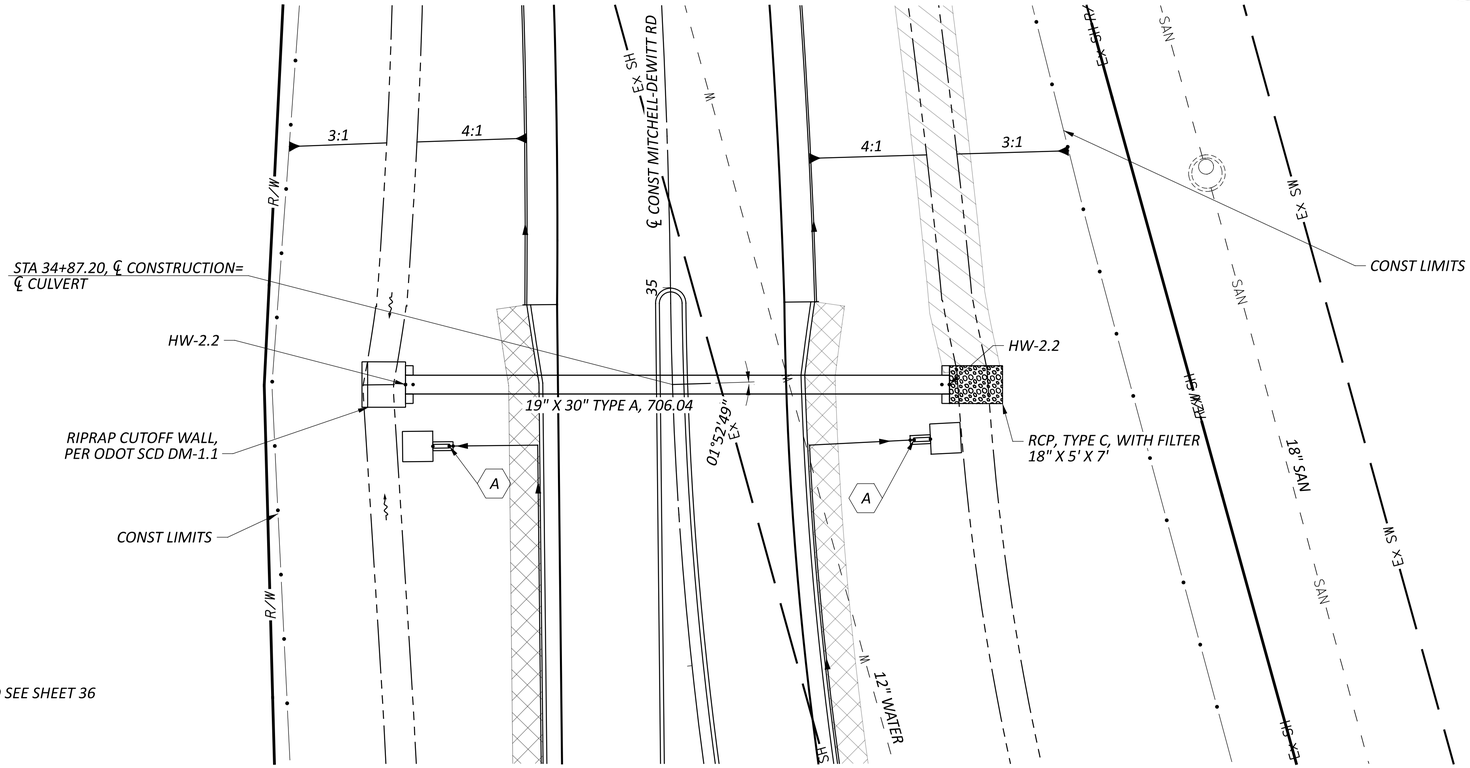
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS

REVIEWER KAM 06/02/23

PROJECT ID 2022.01156

SHEET 87 TOTAL 131



NOTE:

FOR LEGEND SEE SHEET 36

ESTIMATED QUANTITIES			
ITEM	QTY	UNIT	DESCRIPTION
601	4	SY	RIPRAP, TYPE D
657	2	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
659	0.70	CY	CONCRETE MASONRY
659	72	FT	19" X 30" CONDUIT, TYPE A, 706.04

HYDRAULIC DATA

DRAINAGE AREA = 53.202 ACRES

Q (10) = 15.0 CFS V (10) = 4.68 FT/S HW (10) = 947.12 FT

Q (100) = 22.60 CFS V (100) = 7.05 FT/S HW (100) = 948.72 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: LEVEL 1

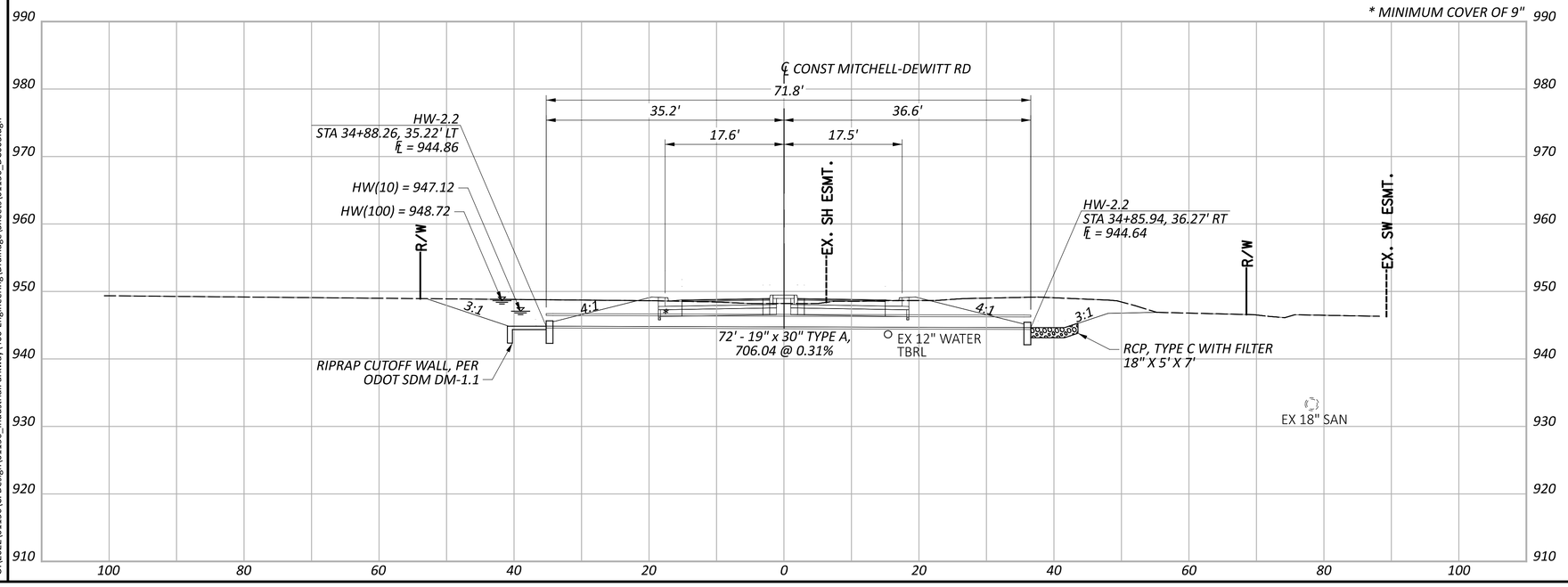
pH: 7.8

PROPOSED STRUCTURE

TYPE: 19" x 30" CONDUIT, TYPE A, 706.04

SKEW: 01°52'49" RT

ALIGNMENT: TANGENT



HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL STA 34+87.20

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:26 AM USER: lstutler
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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS

REVIEWER KAM 06/02/23

PROJECT ID 2022.01156

SHEET 88 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

UTILITY SUBSUMMARY

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 MANHOLE REMOVED (SANITARY SEWER) EACH	611 SPECIAL - FILL AND PLUG EXISTING CONDUIT 8" (SANITARY SEWER) FT	611 SPECIAL - FILL AND PLUG EXISTING CONDUIT 12" (SANITARY SEWER) FT	611 SPECIAL - FILL AND PLUG EXISTING CONDUIT 18" (SANITARY SEWER) FT	611 8" CONDUIT, TYPE B (SANITARY SEWER) FT	611 12" CONDUIT, TYPE B (SANITARY SEWER) FT	611 18" CONDUIT, TYPE B (SANITARY SEWER) FT	611 MANHOLE, NO. 3 (SANITARY SEWER) EACH	611 MANHOLE ADJUSTED TO GRADE (SANITARY SEWER) EACH	611 MANHOLE ADJUSTED TO GRADE (TRAFFIC) EACH	611 SPECIAL - GAS VALVE BOX ADJUSTED TO GRADE EACH					
SS-1	36 & 90	MITCHELL-DEWITT RD	27+92.59	28+24.98	LT	1	245			67												
SS-2	36, 37, 40, 90	MITCHELL-DEWITT RD	28+24.98	1098+94.83	RT						387		1									
SS-3	37, 40 & 90	INDUSTRIAL PKWY	1098+94.83	32+85.55	LT								1									
SS-4	37, 90	MITCHELL-DEWITT RD	32+85.55	1098+94.83	RT				78			93	1									
U-1	36, 37, 40, 90	MITCHELL-DEWITT RD	30+41.74	31+77.32	RT	1		149														
U-2	37, 40 & 90	INDUSTRIAL PKWY	1098+60.59		LT	1			34													
U-3	37, 90	MITCHELL-DEWITT RD	32+02.01	1098+60.59	RT	1			30													
U-4	40	INDUSTRIAL PKWY	1095+60.87		LT										1							
U-5	37, 40	INDUSTRIAL PKWY	1098+80.80		LT										1							
U-6	37, 40	INDUSTRIAL PKWY	1099+27.02		LT											1						
U-7	40	INDUSTRIAL PKWY	1099+84.91		LT											1						
U-8	41	INDUSTRIAL PKWY	1100+27.10		LT									1								
TOTALS CARRIED TO GENERAL SUMMARY						4	245	149	142	67	387	93	3	1	2	2						

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 89 | TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:28 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

UTILITY RELOCATION PLAN

HORIZONTAL SCALE IN FEET
0 15 30 60

EX TELPHONE POLE, TO BE REMOVED BY OTHERS
STA 1095+20.50, 29.27' LT.
℄ CONST. & R/W INDUSTRIAL PKWY

EX TELPHONE POLE, TO BE REMOVED BY OTHERS
STA 1096+52.23, 30.01' LT.
℄ CONST. & R/W INDUSTRIAL PKWY

EX TELEPHONE POLE, TO BE REMOVED BY OTHERS
STA 1098+08.90, 30.31' LT.
℄CONST & R/W INDUSTRIAL PKWY

EX POWER POLE, TO BE REMOVED BY OTHERS
STA 31+89.83, 28.11' LT.
℄CONST. MITCHELL-DEWITT RD

PROP POWER POLE, TO BE INSTALLED BY OTHERS
STA 33+02.45, 66.07' RT.
℄ CONST. MITCHELL-DEWITT RD

℄ CONST MITCHELL-DEWITT RD

EX POWER POLE,
TO BE REMOVED BY OTHERS
STA 34+72.25, 12.71' RT.
℄ CONST MITCHELL-DEWITT RD

℄ CONST. & R/W INDUSTRIAL PKWY

APPROX. 20 FT OF EX. 8" GAS LINE TO BE LOWERED

PROP. 24" WATER LINE RELOCATION

PROP. 12" WATER LINE RELOCATION

℄ R/W MITCHELL-DEWITT RD

℄ CONST MITCHELL-DEWITT RD

REMOVE

FILL IN PLACE

SS-1 *SS-2* *SS-3* *SS-4*

U-1 *U-2* *U-3* *U-4* *U-5* *U-6* *U-7* *U-8*

PROP POWER POLE, TO BE INSTALLED BY OTHERS
STA 30+01.16, 73.81' RT.
℄ CONST MITCHELL-DEWITT RD

EX TELPHONE POLE, TO BE REMOVED BY OTHERS
STA 1097+68.87, 40.10' RT.
CONST. & R/W INDUSTRIAL PKWY

EX TELPHONE POLE, TO BE REMOVED BY OTHERS
STA 1097+92.73, 40.45' RT.
CONST. & R/W INDUSTRIAL PKWY

PROP POWER POLE, TO BE INSTALLED BY OTHERS
STA 1099+51.74, 53.71' RT.
℄ CONST. & R/W INDUSTRIAL PKWY

EX POWER POLE, TO BE REMOVED BY OTHERS
STA 1099+49.55, 32.16' RT.
CONST. & R/W INDUSTRIAL PKWY

PROP POWER POLE, TO BE INSTALLED BY OTHERS
STA 35+57.76, 41.06' RT.
℄ CONST. MITCHELL-DEWITT RD

PROP POWER POLE, TO BE INSTALLED BY OTHERS
STA 1099+42.00, 63.00' LT.
℄ CONST. & R/W INDUSTRIAL PKWY

EX. TELEPHONE POLE TO BE REMOVED BY OTHERS
STA 1099+46.59, 30.00' LT.
℄ CONST. & R/W INDUSTRIAL PKWY

NOTE:
CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF THE SANITARY FORCE MAIN TO AVOID ANY CONFLICTS.

PROPOSED POLE LOCATIONS SHOWN ARE SUBJECT TO CHANGE AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

FOR QUANTITIES SEE SHEET 89
FOR SANITARY SEWER PROFILES SEE SHEET 91
FOR WATER WORK DETAILS SEE SHEETS 92 - 101

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS

REVIEWER KAM 06/02/23

PROJECT ID 2022.01156

SHEET 90 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:38 AM USER: lstutler
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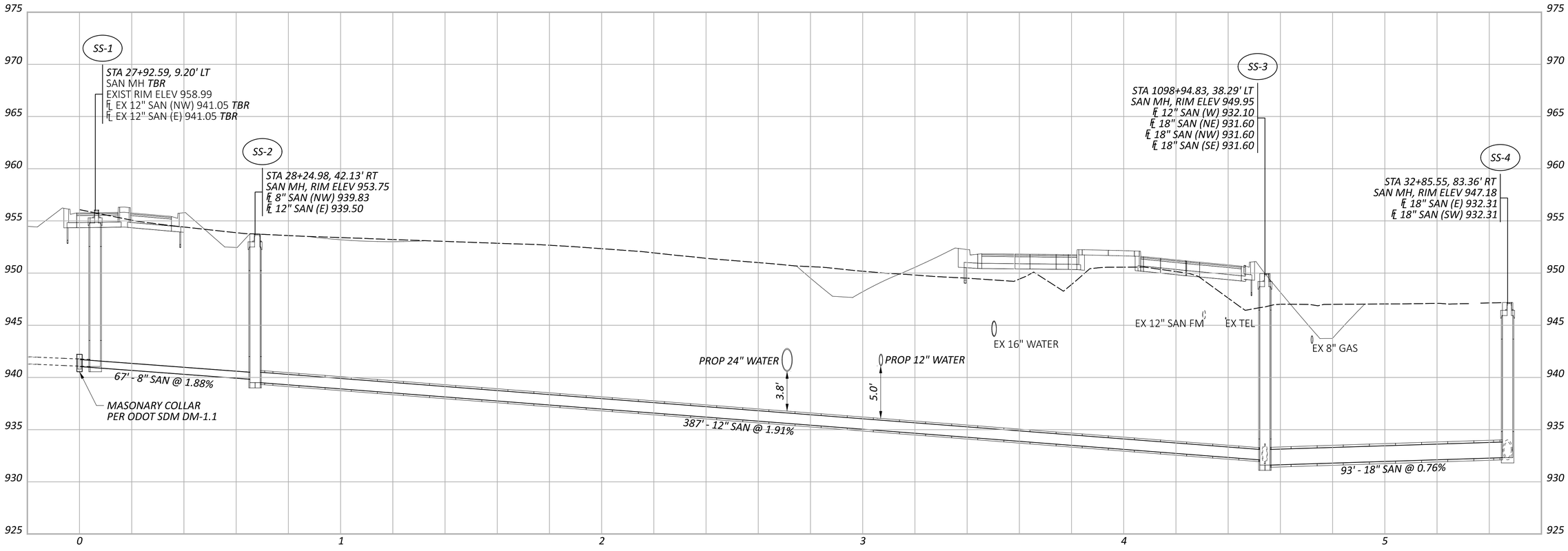
SANITARY SEWER PROFILE



INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 91 | TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:51 AM USER: lstuller
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WATER WORK NOTES

WATER LINE NOTES

1. *ALL WATER LINE AND APPURTENANCES, MATERIALS AND INSTALLATION PROCEDURES, SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF MARYSVILLE.*

2. *ALL WATER LINE MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF MARYSVILLE AND THE AWWA. THE WATER LINE MATERIAL SHALL BE CLEARLY IDENTIFIED AS CONFORMING TO AWWA STANDARDS. WATER LINE PIPE SIZE 4 INCH IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF AWWA C900. WATER LINE PIPE SIZES 6 INCHES THROUGH 12 INCHES IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF AWWA C909, CLASS 235. WATER LINE PIPE SIZES GREATER THAN 12 INCHES IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF AWWA C905.*

3. *ALL RESIDENTIAL SERVICE LINES SHALL BE 1" MINIMUM.*

4. *WATER LINE TRENCHES SHALL BE DEWATERED TO 2" BELOW THE BELL OF PIPE PRIOR TO INSTALLATION.*

5. *IN CASE OF A CONFLICT IN GRADE BETWEEN STORM SEWERS AND WATER LINE, THE WATER LINE SHALL BE LOWERED.*

6. *ALL WATER METERS SHALL BE INSTALLED INSIDE OF THE PROPOSED STRUCTURE, NOT IN A METER PIT, UNLESS SAID METER PIT IS APPROVED BY THE CITY OF MARYSVILLE. METER PITS SHALL COMPLY WITH STANDARD DRAWING WTR-07.*

7. *A BRONZE PAD LOCKABLE METER BYPASS BALL VALVE, APOLLO 75-100 SERIES OR EQUAL, IS REQUIRED FOR 1 1/2" AND LARGER METERS.*

8. *WATER SERVICE BOXES SHALL BE SET AT THE FOLLOWING LOCATIONS: SHORT SERVICE RUNS AT THE RIGHT-OF-WAY LINE OR 1 FOOT BEHIND THE BACK OF SIDEWALK. LONG SERVICE RUNS - 4 FEET FROM THE EDGE OF SIDEWALK (BETWEEN SIDEWALK AND CURB) OR CENTERED BETWEEN THE SIDEWALK AND CURB. WATER SERVICE BOXES WILL NOT BE PERMITTED WITHIN THE CONCRETE SIDEWALK OR FUTURE ASPHALT/CONCRETE DRIVEWAYS.*

9. *WATER LINES SHALL HAVE A MINIMUM COVER OF 4 FEET 6 INCHES FROM FINAL GRADE.*

10. *CONTRACTORS SHALL PROVIDE MEGALUG RETAINING GLANDS OR APPROVED EQUAL AT ALL BENDS AND TEES. CONTRACTORS SHALL BACK BENDS, ELBOWS, TEES WITH SOLID CONCRETE BLOCKS AGAINST UNDISTURBED SOIL. HARDWOOD WEDGES SHALL BE USED WHERE NECESSARY.*

11. *FIRE HYDRANTS SHALL BE MUELLER COMPANY CENTURION 250 HYDRANT WITH A 4 1/2 MAIN VALVE OPENING. THEY ARE TO HAVE A THREE WAY UPPER BARREL WITH ONE 4 1/2 INCH PUMPER NOZZLE WITH AN INTEGRAL 5" STORZ CONNECTION INSTALLED, AND TWO 2 1/2 INCH HOSE NOZZLES. MUST MEET A.W.W.A. C-502 STANDARDS.*

12. *ALL SERVICE LINES SHALL BE TYPE K SOFT COPPER CONFORMING TO ASTM B-88, AND UNDERGROUND JOINTS MUST BE COMPRESSION. AWWA C909 WATER LINE SHALL BE USED IF SERVICE EXCEEDS 2 INCHES.*

13. *WATER LINE SHALL BE DEFLECTED, PER MANUFACTURER SPECIFICATIONS, TO PROVIDE 1 FT 6 IN VERTICAL AND 10 FT HORIZONTAL CLEARANCE WITH SEWERS. IF THIS IS NOT FEASIBLE, THEN STANDARD CONSTRUCTION DRAWING WTR06 APPLIES.*

WATER LINE NOTES (CONTINUED)

14. *ALL WATER MAINS ARE TO BE SEPARATED 10 FEET HORIZONTALLY AND 1.5 FEET VERTICALLY FROM ALL PARALLEL SANITARY SEWERS.*

15. *WHENEVER A WATER MAIN AND SANITARY SEWER MUST CROSS, THE WATER MAIN SHALL BE 1.5 FEET ABOVE THE CROWN OF THE SEWER PIPE. MEASUREMENT TO BE BETWEEN THE OUTSIDE OF PIPE WALLS.*

16. *IF THE TOP OF THE OPERATING NUT FOR WATER VALVE IS GREATER THAN 36 INCHES BELOW FINISH GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO 36 INCHES BELOW FINAL GRADE.*

17. *TRANSVERSE WATER LINES WITHIN THE PAVEMENT AREA SHALL BE BACKFILLED WITH ODOT 304 COMPACTED GRANULAR MATERIAL OR ODOT 613 (LSM) TO THREE FEET BEYOND THE FACE OF CURB OR EDGE OF PAVEMENT.*

18. *PRESSURE TESTING WILL BE IN ACCORDANCE WITH AWWA C909 AND ASTM F1483 PVCO PIPE.*

19. *ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE CITY OF MARYSVILLE SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AWWA C651 PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS.*

20. *INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE. (OHIO ADMINISTRATIVE CODE RULE 3745-95-07(A))*

21. *THE NORMAL WORKING PRESSURE IN THE WATERLINE WILL NOT BE LESS THAN 35 PSI. (2003 RECOMMENDED STANDARDS FOR WATER WORKS, PRESSURE, SECTION 8.2.1) AND A MINIMUM OF 20 PSI SHALL BE MAINTAINED AT GROUND LEVEL AT ALL POINTS OF THE DISTRIBUTION SYSTEM UNDER ALL OPERATING CONDITIONS*

22. *WATER LINES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH ANSI/AWWA C605-13; UNDERGROUND INSTALLATION OF POLYVINYL CHLORIDE (PVC) AND MOLECULARLY ORIENTED POLYVINYL CHLORIDE (PVCO) PRESSURE PIPE AND FITTINGS.*

WATER LINE INSTALLATION

THE PROPOSED WATER LINES SHALL BE CONSTRUCTED OFFLINE, TO ENSURE WATER SERVICE IS MAINTAINED AT ALL TIMES.

CONSTRUCTION OF THE 24" AND 12" WATER LINES LOCATED ON THE SOUTH SIDE OF THE INDUSTRIAL PRKWAY SHALL BE CONSTRUCTED IN PHASE 1 WHEN THE WEST SIDE OF MITCHELL-DEWITT RD IS UNDER FULL CLOSURE AND TRAFFIC HAS BEEN SHIFTED TO THE EAST SIDE OF INDUSTRIAL PKWY.

CONSTRUCTION OF THE NORTHERN SECTION OF THE 12" WATER LINE, REDUCER AND HYDRANT SHALL BE CONSTRUCTED IN PHASE 2 WHEN THE EAST SIDE OF MITCHELL-DEWITT RD IS UNDER FULL CLOSURE AND TRAFFIC HAS BEEN SHIFTED TO THE WEST SIDE OF INDUSTRIAL PKWY.

BACKFILL OPERATIONS

BACKFILL OPERATIONS SHALL CONFORM TO THE STANDARD CONSTRUCTION DRAWINGS AND MEET THE SPECIFICATIONS LISTED BELOW IN NOTES 1, 2, AND 3.

1. *TRENCHES OUTSIDE OF THE INFLUENCE OF STREETS SHALL REQUIRE 95% OF MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 2% OF OPTIMUM MOISTURE. MATERIAL SHALL BE PER ODOT 203.07 AND SUPPLEMENTAL SPECIFICATION 1015.*

2. *STORM, SANITARY, AND UTILITY TRENCHES WITHIN 3 FEET OF THE EDGE OF PAVEMENT AND WITHIN THE CONE OF INFLUENCE SHALL REQUIRE 98% OF THE MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 2% OPTIMUM MOISTURE. BACKFILL MATERIAL SHALL BE ODOT 304 AGGREGATE OR COM LOW STRENGTH MORTAR (LSM) 185. WHERE SAID RESULTS INDICATE THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATION, ALL BACKFILL SHALL BE REMOVED AND RETESTED UNTIL COMPACTION MEETS THE REQUIREMENTS OF 203.07. CONE OF INFLUENCE TO BEGIN 3 FEET FROM THE EDGE OF PAVEMENT AND EXTEND ONE FOOT IN DISTANCE FOR EVERY ONE FOOT OF DEPTH.*

3. *STORM, SANITARY, AND UTILITY TRENCHES UNDER ROAD PAVEMENT SHALL REQUIRE 98% OF THE MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 1.5% OPTIMUM MOISTURE. BACKFILL MATERIAL SHALL BE ODOT 304 AGGREGATE OR COM LSM 185. BACKFILL TO BEGIN 3 FEET FROM EDGE OF PAVEMENT AND EXTEND ONE FOOT IN DISTANCE FOR EVERY ONE FOOT OF DEPTH. WHERE SAID RESULTS INDICATE THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATION, ALL BACKFILL SHALL BE REMOVED AND RETESTED UNTIL COMPACTION MEETS THE REQUIREMENTS OF 203.07.*

ITEM SPECIAL - CUT AND PLUG EXISTING WATER LINE

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12, AND 16 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

ITEM 638 - 16" INSERTING VAVLE AND VALVE BOX

THE INSERTING VALVES ANDS VALVE BOX SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF MARYSVILLE SPECIFICATIONS.

ESTIMATED QUANTITIES

ITEM	QTY	UNIT	DESCRIPTION
202	204	FT	PIPE REMOVED, 24" AND UNDER
202	2	EACH	VALVE BOX REMOVED
638	16	FT	6" WATER MAIN DUCTILE IRON ANCHORING PIPE AND FITTINGS
638	262	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS
638	487	FT	24" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS
638	2	EACH	6" GATE VALVE AND VALVE BOX
638	2	EACH	12" GATE VALVE AND VALVE BOX
638	2	EACH	16" INSERTING VALVE AND VALVE BOX
638	2	EACH	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX
638	2	EACH	6" FIRE HYDRANT
638	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE
638	1	EACH	FIRE HYDRANT REMOVED
638	1	EACH	VALVE BOX ADJUSTED TO GRADE
638	2	EACH	SPECIAL - CUT AND PLUG EXISTING 12" WATER LINE
638	2	EACH	SPECIAL - CUT AND PLUG EXISTING 16" WATER LINE
638	2	EACH	WATER WORK, MISC.: 16" X 24" TAPPING SLEEVE AND VALVE BOX (HOT TAP)

DESIGN AGENCY
STRUCTUREPOINT LLC
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 92 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:35:59 AM USER: lstuler
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HORIZONTAL SCALE IN FEET
0 10 20 40

WATER WORK PLAN

12" X 12" TAPPING SLEEVE AND VALVE W/ 45° HORZ. BEND (HOT TAP) STA. 1097+32.29, 4.2' RT.

12" X 45° HORZ. BEND STA. 1097+33.95, 14.5' RT.

PR. FIRE HYDRANT STA. 1096+19.00, 54.4' LT.

6" VALVE AND APPURTENANCES STA. 1096+19.00, 51.4' LT.

12" X 6" REDUCER STA. 1096+19.00, 48.4' LT.

PR. 12" WATER MAIN

12" X 45° HORZ. BEND STA. 1096+19.00, 52.4' RT.

PR. 12" WATER MAIN

REMOVE

PLUG AND FILL

PLUG AND FILL

16" INSERTING VALVE AND VALVE BOX STA 1096+01.50, 44.3' RT.

REMOVE

REMOVE

REMOVE

REMOVE

PLUG AND FILL

REMOVE

PLUG AND FILL

PLUG AND FILL

16" X 24" TAPPING SLEEVE AND VALVE W/ 45° HORZ. BEND (HOT TAP) STA. 1095+91.50, 44.2' RT.

24" STUB FOR FUTURE CONNECTION STA. 1095+94.00, 58.0' RT.

24" X 45° HORZ. BEND STA. 1095+98.95, 58.0' RT.

24" X 24" ANCHORING TEE AND VALVE STA. 1096+02.49, 54.7' RT.

24" X 12" ANCHORING TEE AND VALVE STA. 1096+09.56, 61.8' RT.

24" X 22.5° HORZ. BEND STA. 1096+16.63, 68.9' RT.

24" X 22.5° HORZ. BEND STA. 1096+29.80, 100.7' RT.

24" X 12" ANCHORING TEE STA. 1096+44.86, 115.7' RT.

12" X 12" TAPPING SLEEVE AND VALVE W/ 11.25° HORZ. BEND (HOT TAP) STA. 1096+37.63, 123.3' RT.

24" X 45° HORZ. BEND STA. 1096+50.26, 121.1' RT.

24" STUB FOR FUTURE CONNECTION STA. 1100+00.00, 58.0' RT.

PLUG AND FILL

REMOVE

16" X 24" TAPPING SLEEVE AND VALVE W/ 22.5° HORZ. BEND (HOT TAP) STA. 1099+51.86, 46.6' RT.

24" X 45° HORZ. BEND STA. 1099+49.00, 58.0' RT.

24" X 22.5° HORZ. BEND STA. 1099+45.45, 54.5' RT.

24" X 24" ANCHORING TEE AND VALVE STA. 1099+43.53, 54.7' RT.

16" INSERTING VALVE AND VALVE BOX STA 1099+41.86, 46.7' RT.

PLUG AND FILL

PR. 24" WATER MAIN

PR. FIRE HYDRANT STA. 1098+16.20, 68.0' RT.

12" X 6" ANCHORING TEE AND VALVE STA. 1098+07.15, 71.8' RT.

24" X 12" ANCHORING TEE AND VALVE STA. 1098+19.34, 101.3' RT.

12" X 11.25° HORZ. BEND STA. 1098+05.05, 66.7' RT.

12" X 22.5° HORZ. BEND STA. 1097+99.51, 58.4' RT.

24" X 22.5° HORZ. BEND STA. 1097+71.44, 121.1' RT.

NOTE:

PROPOSED WATER LINE SHALL BE INSTALLED AT A DEPTH TO PROVIDED A MINIMUM 4' OF COVER

FOR QUANTITIES SEE SHEET 92
FOR WATER LINE PROFILES SEE SHEETS 94 - 95

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS

REVIEWER KAM 06/02/23

PROJECT ID 2022.01156

SHEET 93 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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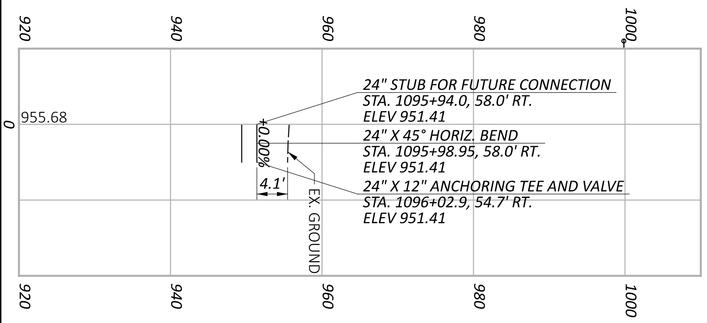

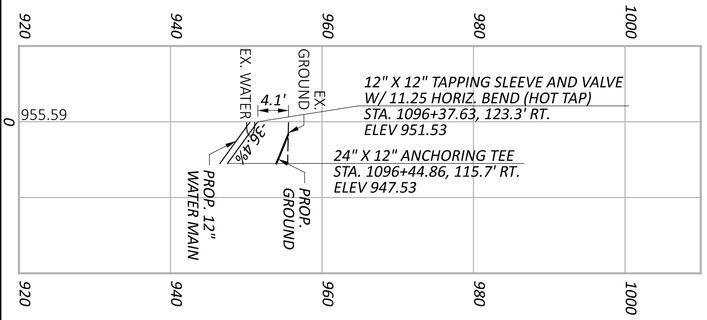

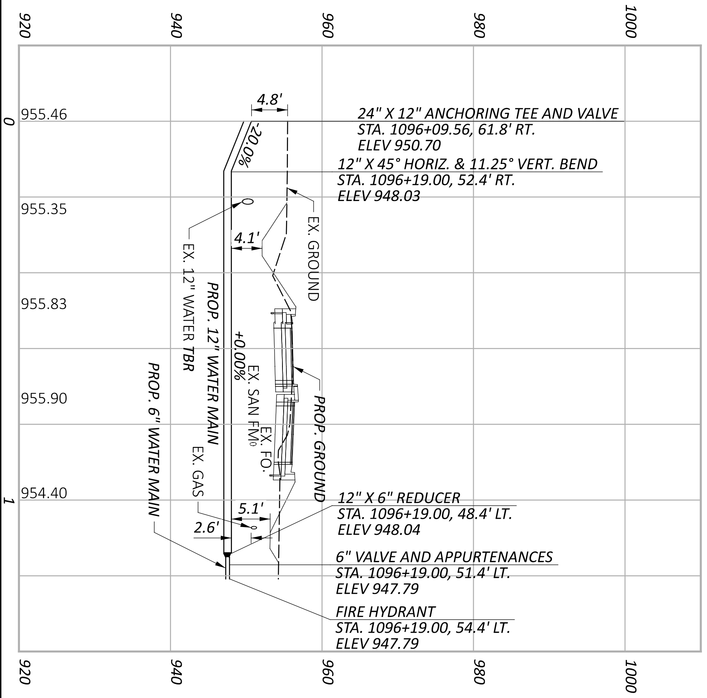

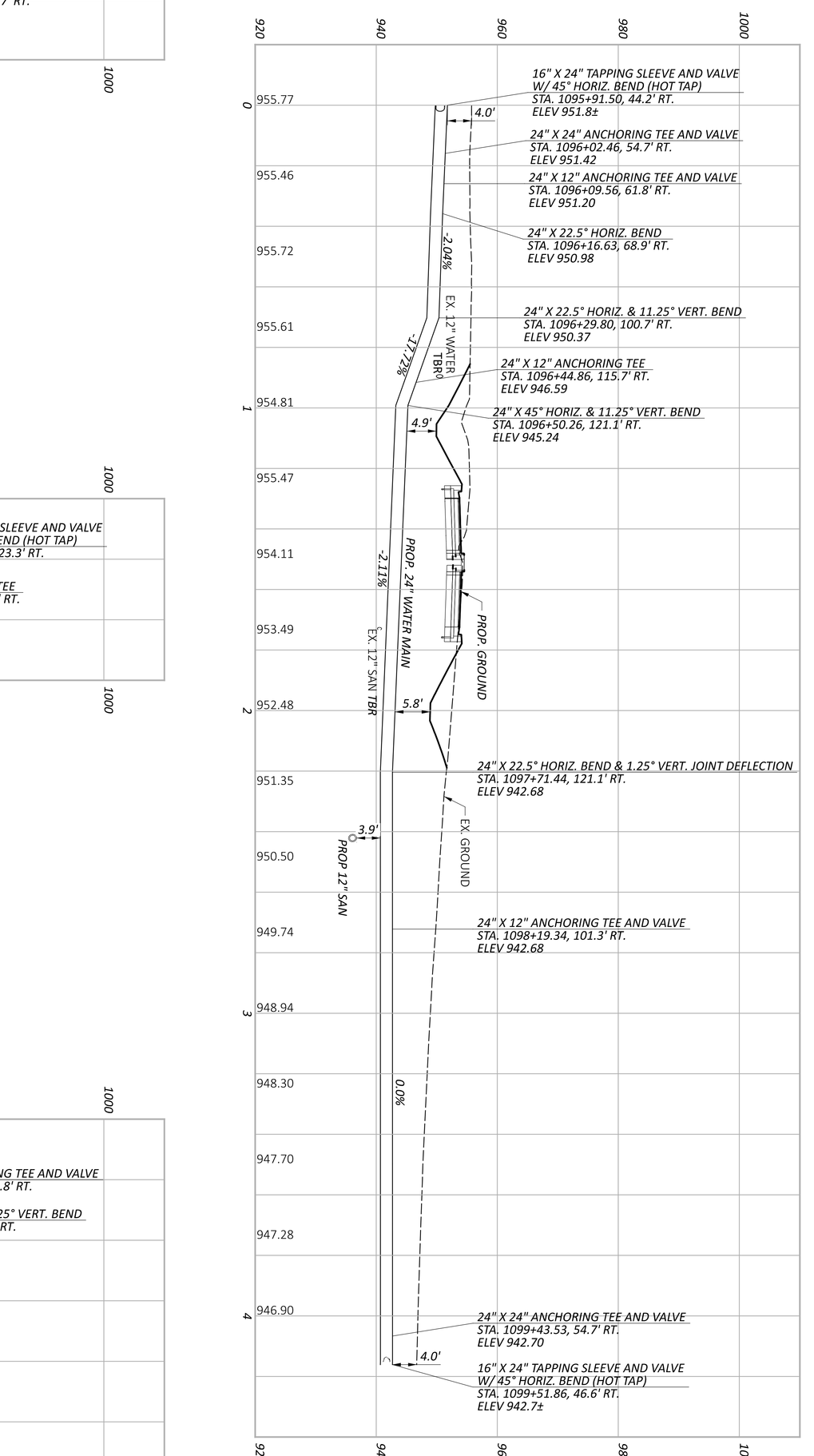

NOTES:
ALL STATION AND OFFSETS ARE FROM ℄ CONST & R/W INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.
A MINIMUM OF 4.0' OF COVER FROM THE TOP OF THE WATER MAIN TO THE PROPOSED GRADE SHALL BE MAINTAINED.

SHEET	PROJECT ID	REVIEWER	DESIGNER	DESIGN AGENCY
94 TOTAL 131	2022.01156	KAM 06/02/23	LZS	AMERICAN STRUCTUREPOINT INC.

WATER WORK PROFILE

MODEL: Sheet_02 PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:36:20 AM USER: lstutler
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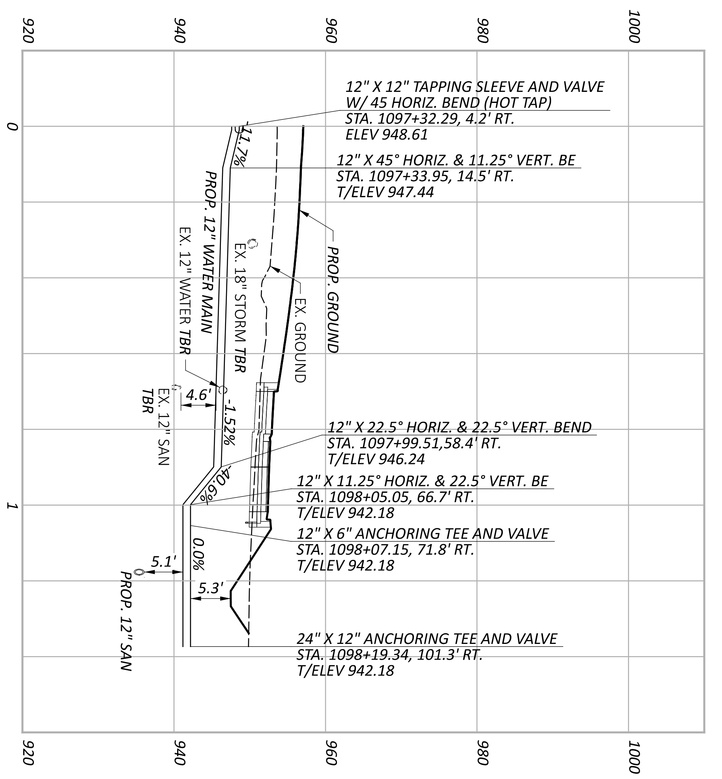
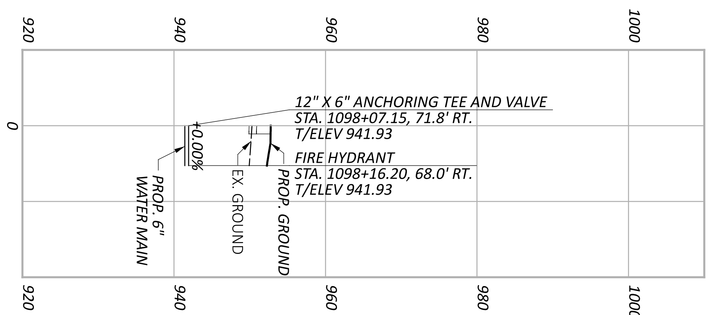
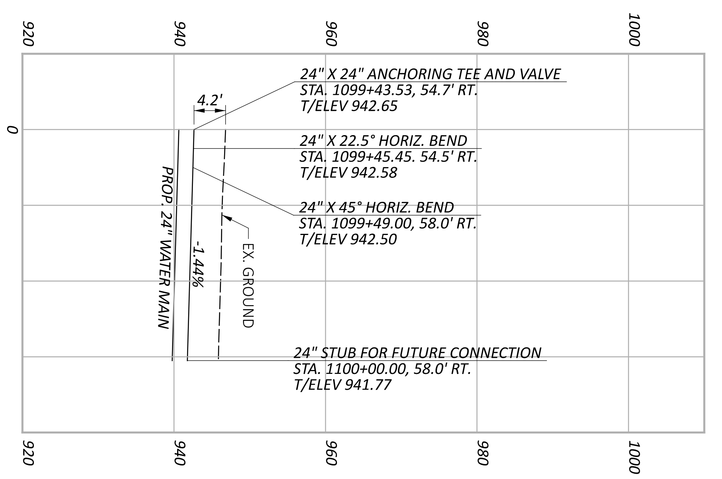




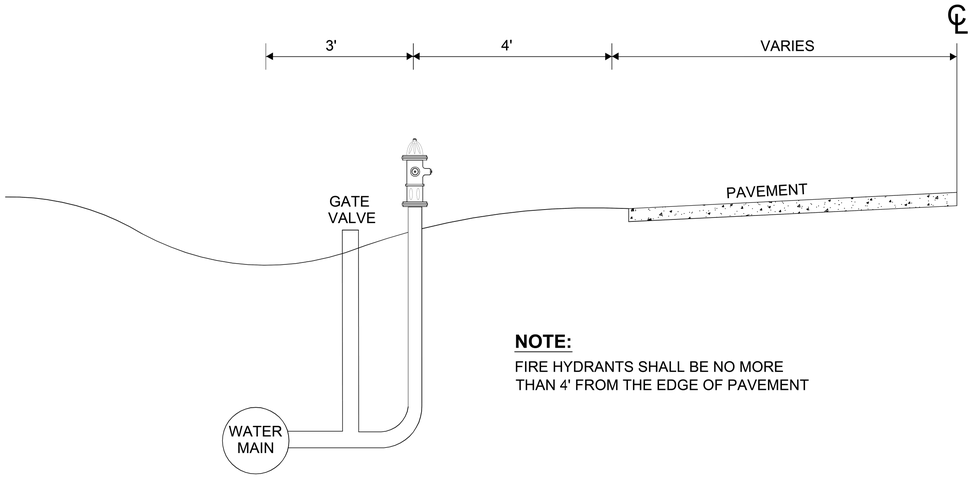


NOTES:
ALL STATION AND OFFSETS ARE FROM ℄ CONST & R/W INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.
A MINIMUM OF 4.0' OF COVER FROM THE TOP OF THE WATER MAIN TO THE PROPOSED GRADE SHALL BE MAINTAINED.

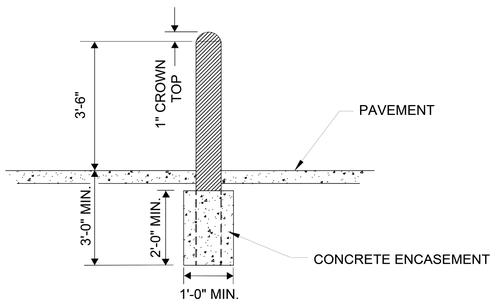
WATER WORK PROFILE

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
LZS	KAM 06/02/23	2022.01156	95	131

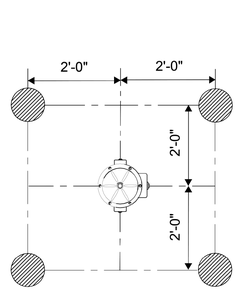
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



NOTE:
FIRE HYDRANTS SHALL BE NO MORE THAN 4' FROM THE EDGE OF PAVEMENT



SECTION VIEW



PLAN VIEW

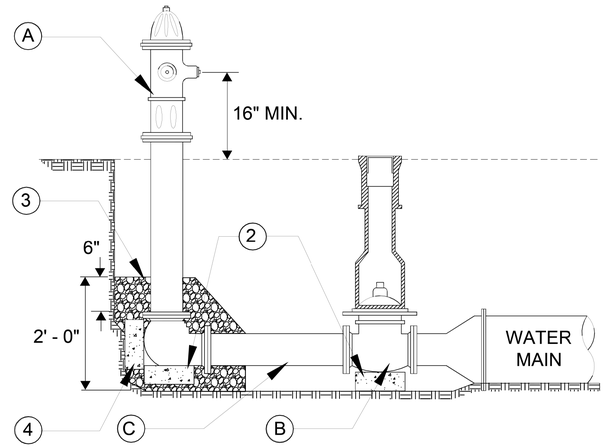
NOTE:

1. 6" STEEL FIRE HYDRANT PROTECTION POST FILLED WITH CONCRETE AND CAPPED WITH CROWN TOP. WIRE BRUSH AND PAINT WITH ONE COAT OF PRIMER AND TWO COATS OF FEDERAL SAFETY YELLOW ENAMEL PAINT.
2. BOLLARDS AROUND FIRE HYDRANT TO BE ADDED AS ADVISED BY THE CITY WATER SUPERINTENDENT.

NOT TO SCALE

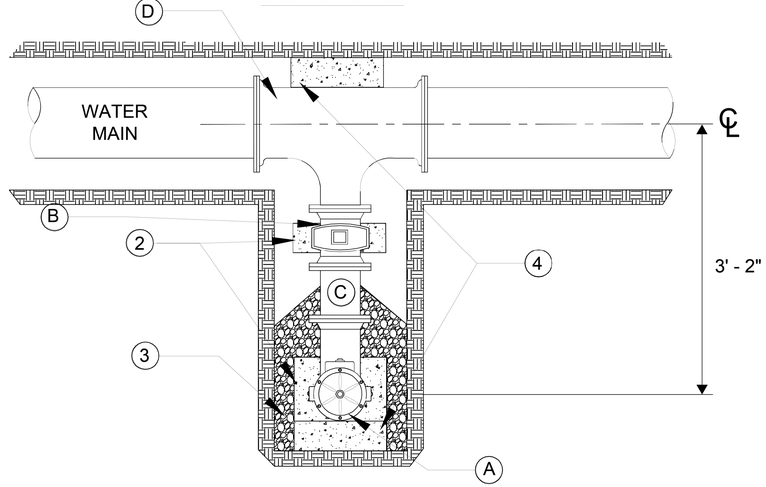
DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	FIRE HYDRANT LAYOUT & HYDRANT PROTECTION	DRAWING NO. WTR-01 SHEET 1 OF 4

NOTE:
FOR ITEM DETAILS
SEE SHEET 4



DEAD END

NOTE:
FOR ITEM DETAILS
SEE SHEET 4



TYPE I

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	FIRE HYDRANT CONNECTION TO MAIN SECTION VIEW	DRAWING NO. WTR-01 SHEET 2 OF 4

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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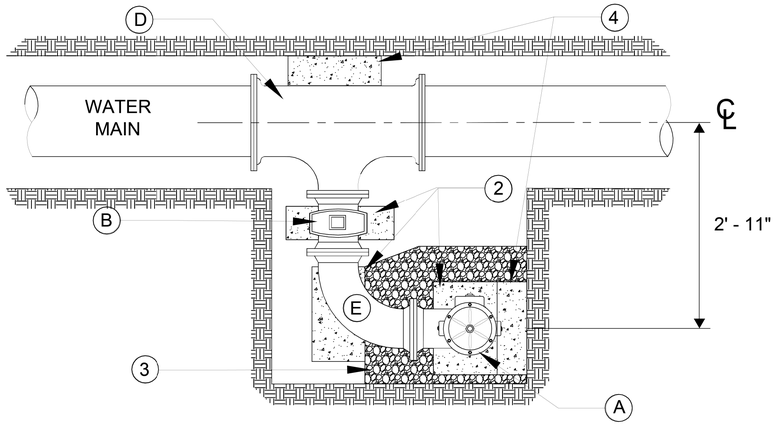
WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY: STRUCTUREPOINT LLC
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET: 96 TOTAL: 131

NOTE:
FOR ITEM DETAILS
SEE SHEET 4



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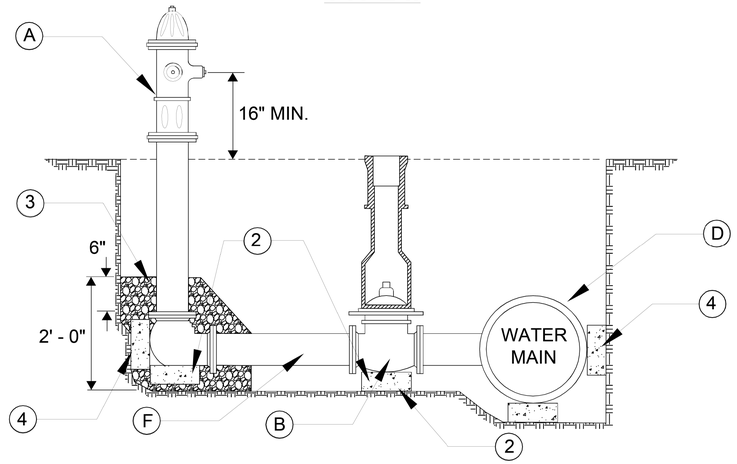

TYPE III

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	FIRE HYDRANT CONNECTION TO MAIN PLAN VIEW	DRAWING NO. WTR-01 SHEET 3 OF 4

NOTE:

1. THE DISTANCE FROM THE CENTERLINE OF THE MAIN TO THE CENTERLINE OF THE HYDRANT SHALL BE 34-38" EXCEPT WHEN INDIVIDUAL CIRCUMSTANCES PROVE IT TO BE INFEASIBLE. WHEN SUCH CIRCUMSTANCES OCCUR, THE LENGTH OF THE LEAD WILL BE NOTED ON THE DRAWINGS WITH STATIONING.
2. SOLID 4" X 8" X 16" CONCRETE BLOCK SHALL BE USED UNDER ALL VALVES AND HYDRANT ELBOWS.
3. CRUSHED #57 STONE FILL AROUND HYDRANT DRAIN TO A DEPTH OF 2' -0".
4. SOLID 4" X 8" X 16" CONCRETE BLOCK BRACED AGAINST UNDISTURBED SOIL. NO NEED FOR BLOCKING IF USING ANCHOR TEE WITH ANCHOR COUPLING OR ANCHOR 90° ON FIRE HYDRANTS.
5. PUMPER NOZZLE FACING STREET AND SHALL BE 2' - 0" BACK OF CURB WHERE APPLICABLE.

TABLE 1: FIRE HYDRANT ASSEMBLY ITEMS

ITEM	DESCRIPTION
A	MUELLER VALVE CO. HYDRANT, 3 WAY CENTURION 250 MODEL
B	6" M.J. GATE VALVE 3 PIECE VALVE BOX
C	12" LONG, 6" DIAMETER ANCHOR PIPE OR MEGA-LUGS AS ANCHORS
D	ANCHOR TEE (F1217) (MAIN DIAMETER) X 6"
E	6" DIAMETER ANCHOR ELBOW (F1218)
F	VARIABLE LENGTH PIPE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	FIRE HYDRANT DETAILS	DRAWING NO. WTR-01 SHEET 4 OF 4

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 97 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:37:15 AM USER: lstuller
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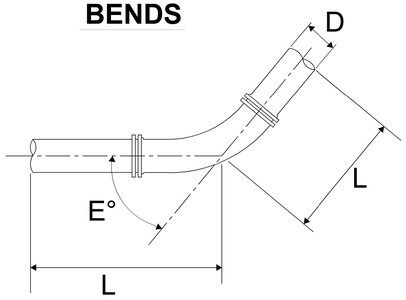
BENDS



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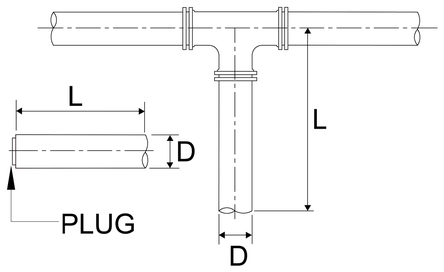

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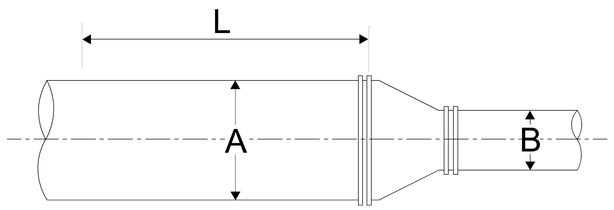

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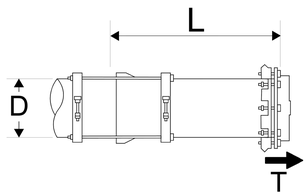


NOTE:

1. REQUIREMENTS FOR RESTRAINED JOINTS SHALL BE DICTATED BY THE RESTRAINT LENGTH CALCULATOR MADE BY EBBA IRON SALES, INC. (https://rlc.ebaa.com/calculator.php)

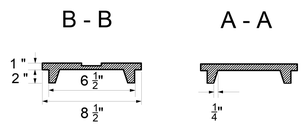
2. THE FOLLOWING ASSUMPTIONS SHALL BE MADE ON ALL PUBLIC WATERLINE PROJECTS:

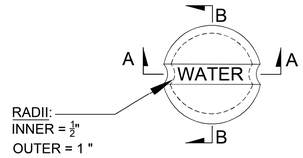
   SOIL TYPE - CL
   SAFETY FACTOR - 1.5 TO 1.0
   TRENCH TYPE - 4
   TEST PRESSURE - 150 PSI

NOT TO SCALE

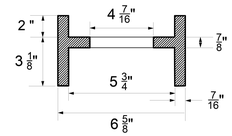
DATE: JUNE 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	RESTRAINED JOINTS	DRAWING NO. WTR-03

LID
17 LBS.



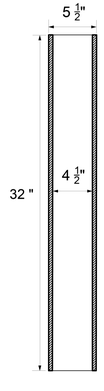


RISER
14 LBS.





STEM
64 LBS.

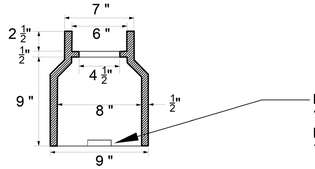


Note:

-NOT TO SCALE
-AVERAGE WEIGHTS TO THE NEAREST EVEN LB. CALCULATED USING 0.26 LB/CU IN



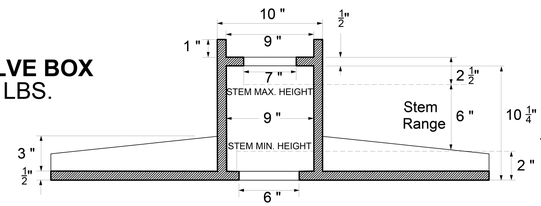
BASE
41 LBS.

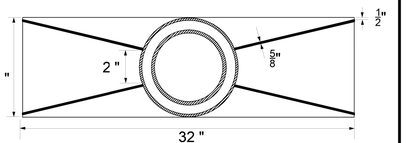


BASE WILL BE LEVEL OVER VALVE NUT AND THE NUT IS NOTE TO EXTEND MORE THAN 2" INTO THE BASE.



VALVE BOX
120 LBS.



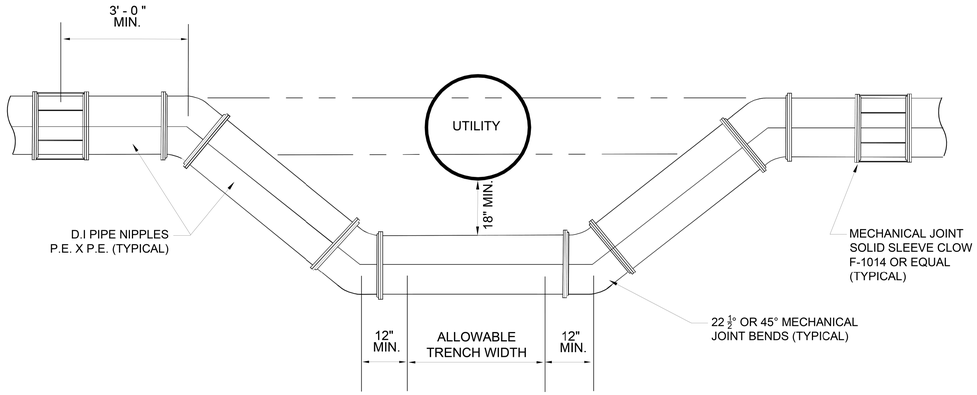


SECTION VIEW **PLAN VIEW**

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	HEAVY DUTY VALVE BOX	DRAWING NO. WTR-05

DESIGN AGENCY: STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET: 98 TOTAL: 131

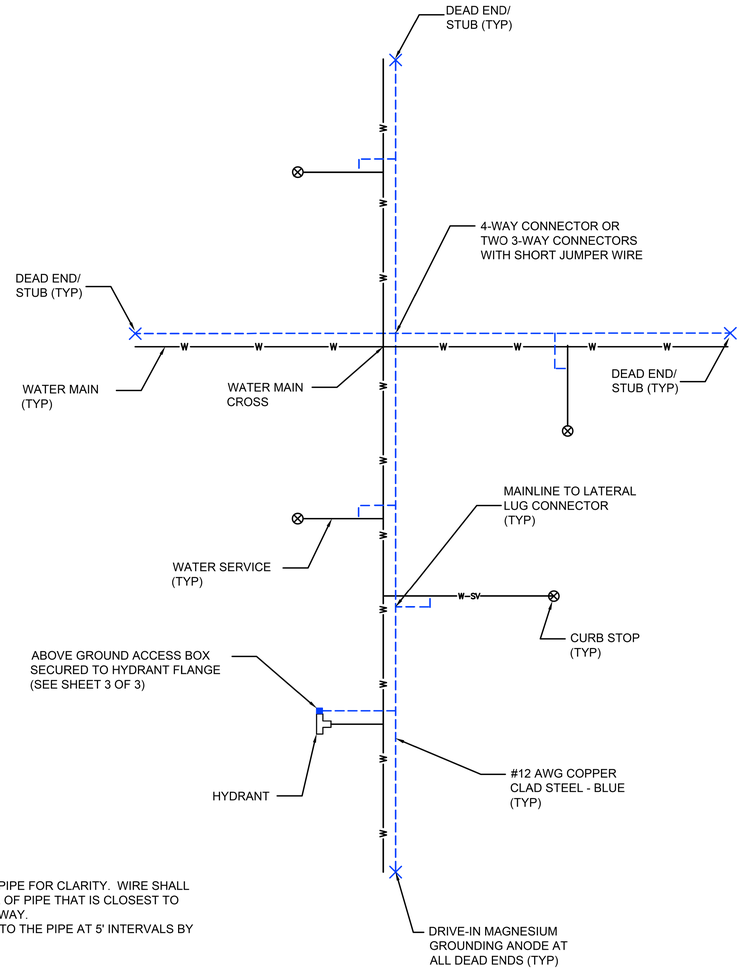


NOTES:

1. TIME AND DURATION OF SHUTDOWN SHALL BE DETERMINED BY THE SUPERINTENDENT OF THE MARYSVILLE DIVISION OF WATER.
2. THE CONTRACTOR SHALL NOTIFY ALL WATER CONSUMERS EFFECTED BY THE PROPOSED WORK AT LEAST 24 HOURS PRIOR TO THE SHUTDOWN.
3. ALL BENDS SHALL BE SECURED BY MEGA-LUGS AND RODDING OR OTHER METHODS AS APPROVED BY THE WATER SUPERINTENDENT. CONCRETE SHALL THEN BE PROVIDED IN ACCORDANCE WITH THE CITY OF MARYSVILLE STANDARD DETAILS AND SPECIFICATIONS FOR OVER BENDS AND SAG BENDS.
4. THE RELOCATED LINES SHALL BE LAID TO THE NEW LINE AND GRADE, TESTED AND DISINFECTED PRIOR TO SHUT DOWN OF EXISTING MAIN AND CONNECTION OF THE RELOCATED LINES TO THE EXISTING MAIN. IF LINES TO BE RELOCATED ARE PRIVATE, THEY WILL TEST AND BACTERIA TEST COMPLETE LINE.
5. ALL WATER LINES SHALL BE DISINFECTED BY SWABBING WITH A 5% HYPOCHLORITE SOLUTION IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF A.W.W.A. C-601.
6. MATERIALS USED IN LOWERING SHALL MATCH MATERIALS OF ADJACENT WATERLINE.

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	WATERLINE LOWERING	DRAWING NO. WTR-06



NOTES:

1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE SIDE OF PIPE THAT IS CLOSEST TO THE CENTERLINE OF ROADWAY.
2. WIRE SHALL BE FASTENED TO THE PIPE AT 5' INTERVALS BY DUCT TAPE.

TRACER WIRE PLAN (WATER)
NO SCALE

★ PRIOR TO ACCEPTANCE BY THE CITY ALL TRACER WIRE MUST BE TESTED FOR FUNCTIONALITY

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRACER WIRE DETAILS	DRAWING NO. WTR-08 SHEET 1 OF 3

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET: 99 TOTAL: 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:37:40 AM USER: lstuller
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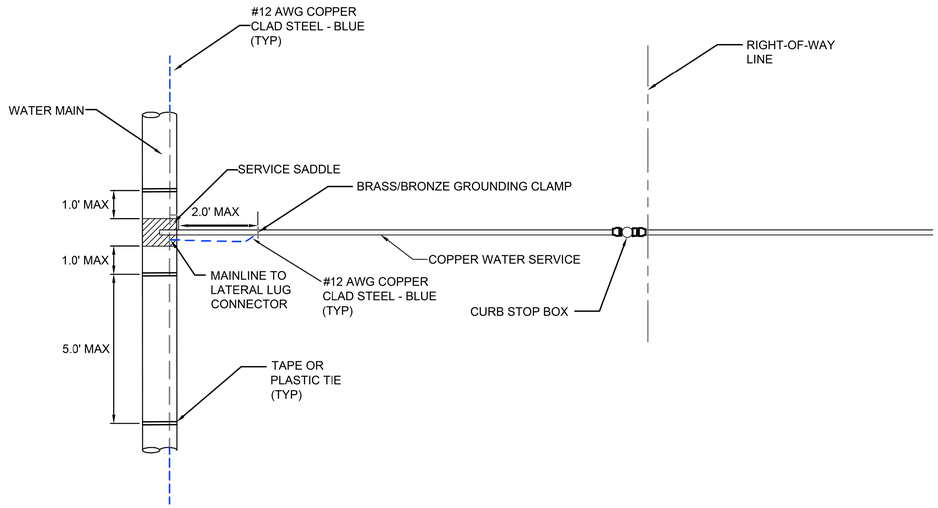


WATER SERVICE - PLAN VIEW

NO SCALE

Note:

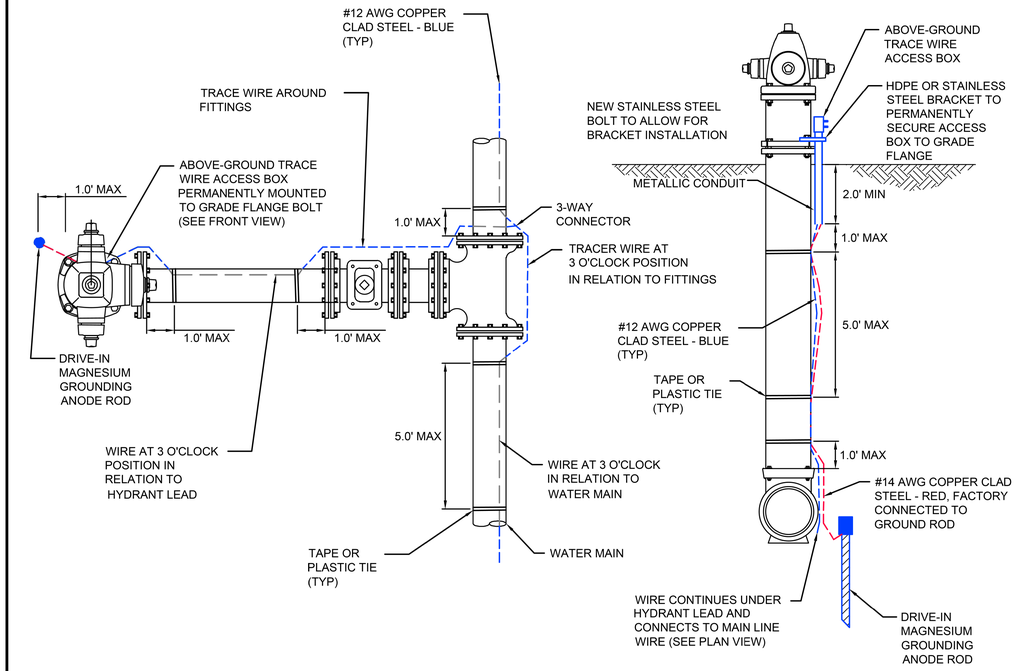
- FOR ALL SERVICES, TRACER WIRE SHALL BE GROUNDED USING A BRASS/BRONZE GROUNDING CLAMP.

- TRACE WIRE ON SERVICES SHALL TERMINATE WITHIN 18" - 24" OF WATER MAIN.

★ PRIOR TO ACCEPTANCE BY THE CITY ALL TRACER WIRE MUST BE TESTED FOR FUNCTIONALITY

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRACER WIRE DETAILS	DRAWING NO. WTR-08 SHEET 2 OF 3



HYDRANT - PLAN VIEW

NO SCALE

HYDRANT - SECTION VIEW

NO SCALE

★ PRIOR TO ACCEPTANCE BY THE CITY ALL TRACER WIRE MUST BE TESTED FOR FUNCTIONALITY

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRACER WIRE DETAILS	DRAWING NO. WTR-08 SHEET 3 OF 3

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY: STRUCTUREPOINT

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 100 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:38:01 AM USER: lstuller
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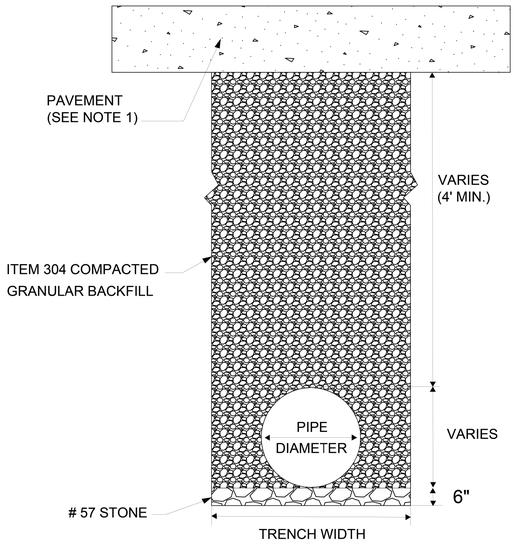
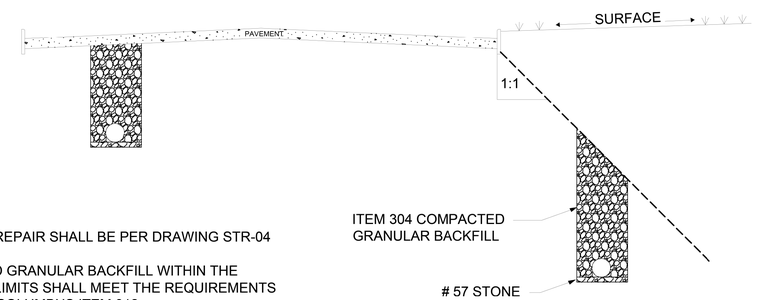
INSIDE PAVEMENT LIMITS



DIMENSIONS (INCHES)		
PIPE DIAMETER	TRENCH WIDTH	
	MIN	MAX
6	30	48
8	30	48
10	30	48
12	32	48
15	36	50
16	38	52
18	40	53
20	42	56
21	44	57
24	48	60
27	52	64
30	57	67
33	61	71
36	64	74
42	71	81
48	78	88
54	87	95
60	96	102

OUTSIDE PAVEMENT LIMITS



NOTES:

1. PAVEMENT REPAIR SHALL BE PER DRAWING STR-04
2. COMPACTED GRANULAR BACKFILL WITHIN THE PAVEMENT LIMITS SHALL MEET THE REQUIREMENTS OF CITY OF COLUMBUS ITEM 912.

NOT TO SCALE

DATE: APRIL 2021

STANDARD CONSTRUCTION DRAWING

CITY OF marysville
ENGINEERING

TRENCH DETAIL

DRAWING NO.
WTR-09

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:38:23 AM USER: lstuller
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WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 101 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

PAVEMENT MARKING SUBSUMMARY

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	644 EDGE LINE, 4" (WHITE)	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 DOTTED LINE, 12"	644 CHEVRON MARKING
						MILE	MILE	FT	FT	FT
CHW1	105	MITCHELL-DEWITT RD	33+11.00	33+28.00	LT			20		
CHW2	105	MITCHELL-DEWITT RD	33+10.00	33+28.00	LT			19		
CHW3	105	INDUSTRIAL PKWY	1098+72.00	1099+25.00	LT			54		
CHW4	105	INDUSTRIAL PKWY	1098+70.00	1099+50.00	LT			81		
CVW1	105	INDUSTRIAL PKWY	1098+70.00	1099+25.00	LT					17
DBL1	106	MITCHELL-DEWITT RD	25+50.00	25+72.00	CL		22			
DBL2	106	MITCHELL-DEWITT RD	25+72.00	27+22.00	RT		150			
DBL3	106	MITCHELL-DEWITT RD	25+72.00	27+22.00	LT		150			
DBL4	106	MITCHELL-DEWITT RD	34+98.00	36+48.00	LT		150			
DBL5	106	MITCHELL-DEWITT RD	34+98.00	36+48.00	RT		150			
DBL6	106	MITCHELL-DEWITT RD	36+48.00	37+57.00	CL		109			
DBL7	107	INDUSTRIAL PKWY	1086+25.00	1090+00.00	CL		375			
DBL8	107	INDUSTRIAL PKWY	1090+00.00	1093+25.00	CL		325			
DBL9	107	INDUSTRIAL PKWY	1093+25.00	1094+75.00	LT		150			
DBL10	107	INDUSTRIAL PKWY	1093+25.00	1094+75.00	RT		150			
DBL11	108	INDUSTRIAL PKWY	1100+45.00	1101+95.00	LT		150			
DBL12	108	INDUSTRIAL PKWY	1100+45.00	1101+95.00	RT		150			
DBL13	108	INDUSTRIAL PKWY	1101+95.00	1105+00.00	CL		305			
DBL14	108	INDUSTRIAL PKWY	1105+00.00	1109+00.00	CL		400			
DL1	105	INDUSTRIAL PKWY	1097+39.00	1097+81.00	RT				43	
DL2	105	MITCHELL-DEWITT RD	31+46.00	31+65.00	RT				23	
DL3	105	MITCHELL-DEWITT RD	31+79.00	32+23.00	RT				47	
DL4	105	MITCHELL-DEWITT RD	30+22.00	30+69.00	LT				53	
DL5	105	INDUSTRIAL PKWY	1096+50.00	1096+93.00	LT				47	
DL6	105	INDUSTRIAL PKWY	1097+23.00	1097+62.00	LT				41	
DL7	105	MITCHELL-DEWITT RD	33+28.00	34+10.00	LT				87	
DL8	105	INDUSTRIAL PKWY	1099+50.00	1100+00.00	LT				50	
EW1	105	INDUSTRIAL PKWY	1097+02.00	1097+39.00	RT	43				
EW2	105	MITCHELL-DEWITT RD	31+05.00	31+46.00	RT	43				
EW3	105	MITCHELL-DEWITT RD	31+65.00	31+79.00	RT	16				
EW4	105	INDUSTRIAL PKWY	1097+62.00	1098+17.00	LT	62				
EW5	105	INDUSTRIAL PKWY	1096+93.00	33+10.00	LT	193				
EW6	105	MITCHELL-DEWITT RD	30+69.00	31+10.00	LT	43				
EW7	106	MITCHELL-DEWITT RD	24+20.00	27+22.00	RT	299				
EW8	106	MITCHELL-DEWITT RD	25+50.00	27+22.00	LT	174				
EW9	106	MITCHELL-DEWITT RD	34+98.00	37+57.00	LT	256				
EW10	106	MITCHELL-DEWITT RD	34+98.00	37+57.00	RT	262				
EW11	107	INDUSTRIAL PKWY	1086+25.00	1090+00.00	LT	376				
EW12	107	INDUSTRIAL PKWY	1086+25.00	1090+00.00	RT	374				
EW13	107	INDUSTRIAL PKWY	1090+00.00	1094+75.00	LT	475				
EW14	107	INDUSTRIAL PKWY	1090+00.00	1094+75.00	RT	475				
EW15	108	INDUSTRIAL PKWY	1100+45.00	1105+00.00	LT	455				
EW16	108	INDUSTRIAL PKWY	1100+45.00	1105+00.00	RT	455				
EW17	108	INDUSTRIAL PKWY	1105+00.00	1109+00.00	LT	400				
EW18	108	INDUSTRIAL PKWY	1105+00.00	1109+00.00	RT	400				
SUBTOTAL						4801.00	2736.00			
TOTALS CARRIED TO GENERAL SUMMARY						0.91	0.52	174	391	17

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 102 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:38:45 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	644 EDGE LINE, 4" (YELLOW)	644 YIELD LINE	644 LANE ARROW	644 TRANSVERSE/DIAGONAL LINE (YELLOW)
						MILE	FT	EACH	FT
LA1	105	MITCHELL-DEWITT RD	31+67.00		LT			1	
LA2	105	MITCHELL-DEWITT RD	32+50.00		LT			1	
LA3	105	INDUSTRIAL PKWY	1098+49.00		LT			1	
LA4	105	INDUSTRIAL PKWY	1099+36.00		LT			1	
TLY1	106	MITCHELL-DEWITT RD	26+44.00	27+10.00	LT/RT				17
TLY2	106	MITCHELL-DEWITT RD	35+15.00	35+80.00	LT/RT				16
TLY3	107	INDUSTRIAL PKWY	1093+97.00	1094+63.00	LT/RT				17
TLY4	107	INDUSTRIAL PKWY	1100+62.00	1101+27.00	LT/RT				16
YE1	105	MITCHELL-DEWITT RD	28+50.00	30+32.00	LT	184			
YE2	105	MITCHELL-DEWITT RD	28+50.00	30+25.00	RT	178			
YE3	105	INDUSTRIAL PKWY	1095+50.00	1096+83.00	LT	137			
YE4	105	INDUSTRIAL PKWY	1095+50.00	1096+78.00	RT	131			
YE5	105	INDUSTRIAL PKWY	1098+36.00	1098+72.00	LT	46			
YE6	105	INDUSTRIAL PKWY	1098+41.00	1099+50.00	LT/RT	112			
YE7	105	INDUSTRIAL PKWY	1098+36.00	1099+50.00	RT	118			
YE8	105	MITCHELL-DEWITT RD	31+37.00	33+11.00	LT	194			
YE9	105	MITCHELL-DEWITT RD	31+86.00	34+00.00	LT	222			
YE10	105	MITCHELL-DEWITT RD	31+82.00	34+00.00	RT	219			
YE11	106	MITCHELL-DEWITT RD	27+22.00	28+50.00	LT	127			
YE12	106	MITCHELL-DEWITT RD	27+22.00	28+50.00	RT	129			
YE13	106	MITCHELL-DEWITT RD	34+00.00	34+98.00	LT	100			
YE14	106	MITCHELL-DEWITT RD	34+00.00	34+98.00	RT	97			
YE15	107	INDUSTRIAL PKWY	1094+75.00	1095+50.00	LT	75			
YE16	107	INDUSTRIAL PKWY	1094+75.00	1095+50.00	RT	75			
YE17	108	INDUSTRIAL PKWY	1099+50.00	1100+45.00	LT	95			
YE18	108	INDUSTRIAL PKWY	1099+50.00	1100+45.00	RT	95			
YL1	105	MITCHELL-DEWITT RD	30+15.00	30+25.00	RT		18		
YL2	105	INDUSTRIAL PKWY	1098+41.00	1098+50.00	LT		16		
YL3	105	INDUSTRIAL PKWY	1098+36.00	1098+48.00	LT		16		
YL4	105	MITCHELL-DEWITT RD	31+86.00	31+92.00	LT		17		
YL5	105	MITCHELL-DEWITT RD	31+37.00	31+37.00	LT		16		
YL6	105	INDUSTRIAL PKWY	1096+66.00	1096+78.00	RT		19		
SUBTOTAL						2334.00			
TOTALS CARRIED TO GENERAL SUMMARY						0.44	102	4	66

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 103 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:38:46 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

SIGNING SUBSUMMARY

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION	SIDE	CODE	SIZE	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 SIGN POST REFLECTOR (RED)	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	630 SIGN, FLAT SHEET	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF GROUND MOUNTED POST, SUPPORT AND DISPOSAL						NOTES
						W X H	FT	FT	EACH	EACH	SF	EACH	EACH	EACH						
SR-1	106	EX MITCHELL-DEWITT RD	27+37	LT			15						2	1						
SR-2	106	EX MITCHELL-DEWITT RD	27+37	RT								1		1						
SR-3	105	EX MITCHELL-DEWITT RD	29+66	LT			13.5						1	1						
SR-4	105	EX MITCHELL-DEWITT RD	30+26	LT								1		1						
SR-5	105	EX MITCHELL-DEWITT RD	30+27	LT								2		1						
SR-6	105	EX MITCHELL-DEWITT RD	30+62	RT								1		1						
SR-7	105	EX MITCHELL-DEWITT RD	31+31	LT								1		1						
SR-8	105	EX MITCHELL-DEWITT RD	31+51	RT								2		1						
SR-9	105	EX MITCHELL-DEWITT RD	31+66	RT								1		1						
SR-10	105	EX MITCHELL-DEWITT RD	33+43	RT			13.5						1	1						
SR-11	107	EX MITCHELL-DEWITT RD	34+84	LT								1		1						
SR-12	107	EX MITCHELL-DEWITT RD	34+86	RT								1		1						
SR-13	108	INDUSTRIAL PKWY	1094+55	RT								3		1						
SR-14	108	INDUSTRIAL PKWY	1095+37	LT			13.5						1	1						
SR-15	108	INDUSTRIAL PKWY	1100+74	LT								1		1						
SR-16	108	INDUSTRIAL PKWY	1101+93	RT			13.5						1	1						
SR-17	108	INDUSTRIAL PKWY	1103+73	LT								3		1						
S-1	106	MITCHELL-DEWITT RD	22+20	RT	W1-4R-36	36 X 36		15			9									
					W13-1P-18	18 X 18					2.25									
S-2	106	MITCHELL-DEWITT RD	24+70	RT	W2-6-30	30 X 30		14.5			6.25									
					W13-1P-18	18 X 18					2.25									
S-3	106	MITCHELL-DEWITT RD	27+75	CL	R4-7-24	24 X 30	13				5									
S-4	105	MITCHELL-DEWITT RD	30+22	LT	D1-H1-72	72 X 12	11.5 11.5				6									2 POSTS
S-5	105	MITCHELL-DEWITT RD	30+68	RT	R6-4-30	30 X 24	13				5									
S-6	105	INDUSTRIAL PKWY	1096+74	RT	D1-H1-72	72 X 12	11.5 11.5				6									2 POSTS
S-7	105	INDUSTRIAL PKWY	1097+20	RT	R6-4-30	30 X 24	13				5									
S-8	105	INDUSTRIAL PKWY	1098+46	LT	D1-H1-72	72 X 12	11.5 11.5				6									2 POSTS
S-9	105	INDUSTRIAL PKWY	1098+01	LT	R6-4-30	30 X 24	13				5									
S-10	105	MITCHELL-DEWITT RD	31+91	RT	D1-H1-72	72 X 12	11.5 11.5				6									2 POSTS
S-11	105	MITCHELL-DEWITT RD	31+42	LT	R6-4-30	30 X 24	13				5									
S-12	105	INDUSTRIAL PKWY	1098+52	LT	R1-2-36	36 X 36	13.5		1		3.9									
S-13	105	INDUSTRIAL PKWY	1098+58	LT	R1-2-36	36 X 36				1	3.9									
S-14	105	MITCHELL-DEWITT RD	31+96	LT	R1-2-36	36 X 36	13.5		1		3.9									
S-15	105	MITCHELL-DEWITT RD	31+39	LT	R1-2-36	36 X 36	13.5		1		3.9									
S-16	105	INDUSTRIAL PKWY	1098+54	RT	R1-2-36	36 X 36				1	3.9									
S-17	105	MITCHELL-DEWITT RD	30+02	RT	R1-2-36	36 X 36				1	3.9									
S-18	107	MITCHELL-DEWITT RD	34+84	LT	R3-8LT_RT-36	36 X 36	13.5				9									
S-19	107	MITCHELL-DEWITT RD	34+98	CL	R4-7-24	24 X 30	13				5									
S-20	107	MITCHELL-DEWITT RD	37+48	LT	W2-6-30	30 X 30		14.5			6.25									
					W13-1P-18	18 X 18					2.25									
S-21	107	MITCHELL-DEWITT RD	39+48	LT	W1-4R-36	36 X 36		15			9									
					W13-1P-18	18 X 18					2.25									
S-22	108	INDUSTRIAL PKWY	1092+23	RT	W2-6-30	30 X 30		14.5			6.25									
					W13-1P-18	18 X 18					2.25									
S-23	108	INDUSTRIAL PKWY	1094+75	CL	R4-7-24	24 X 30	13				5									
S-24	108	INDUSTRIAL PKWY	1100+05	LT	R3-8LT_RT-36	36 X 36	13.5				9									
S-25	108	INDUSTRIAL PKWY	1100+45	CL	R4-7-24	24 X 30	13				5									
S-26	108	INDUSTRIAL PKWY	1102+95	LT	W2-6-30	30 X 30		14.5			6.25									
					W13-1P-18	18 X 18					2.25									
TOTALS CARRIED TO GENERAL SUMMARY							333	88	3	3	162	18	6	17						

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:38:48 AM USER: lstuller
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DESIGN AGENCY
WEPEAK STRUCTUREPOINT INC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 104 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:38:53 AM USER: lstutler
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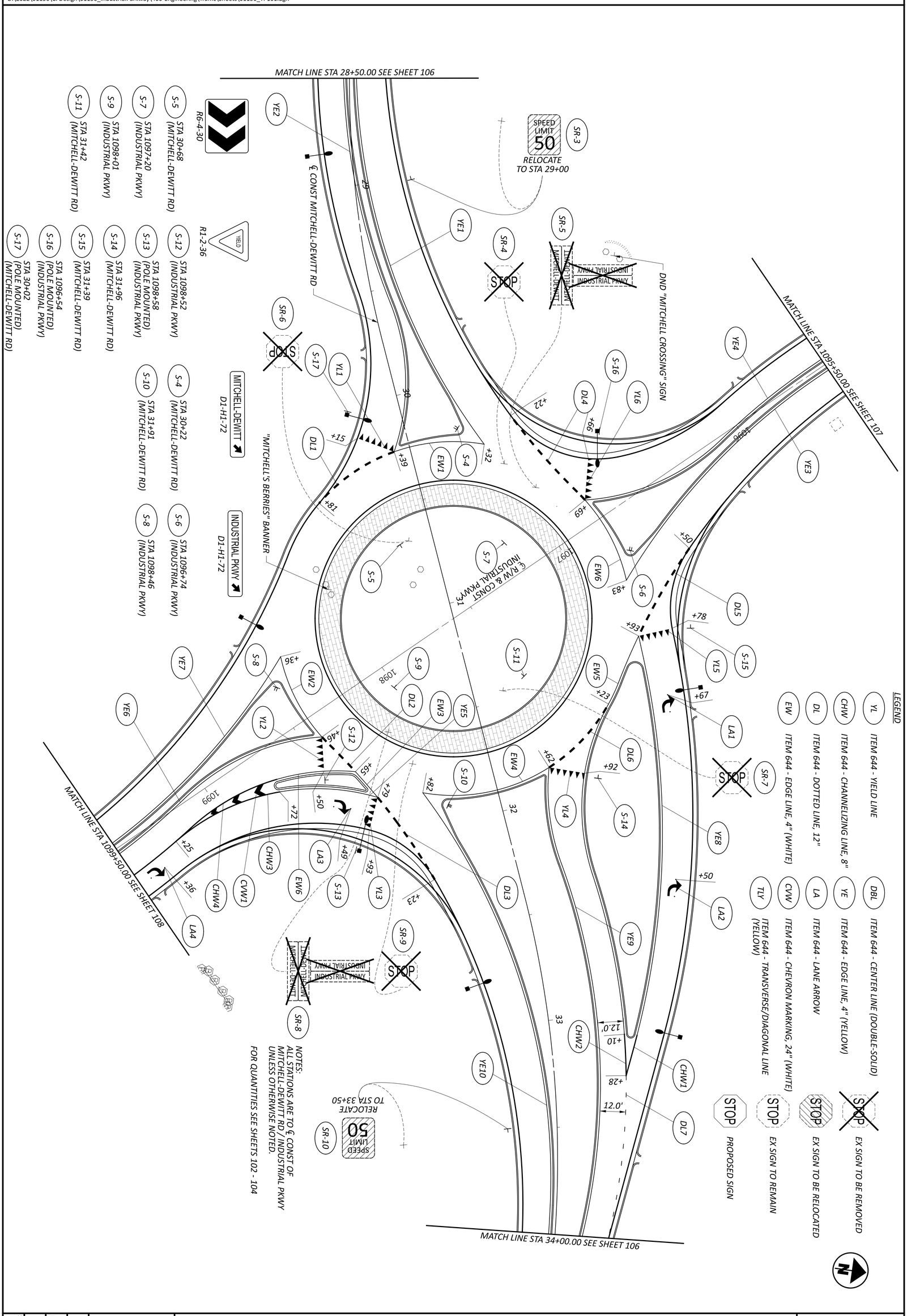

TRAFFIC CONTROL PLAN - MITCHELL-DEWITT RD
STA 28+50.00 TO STA 34+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET 105 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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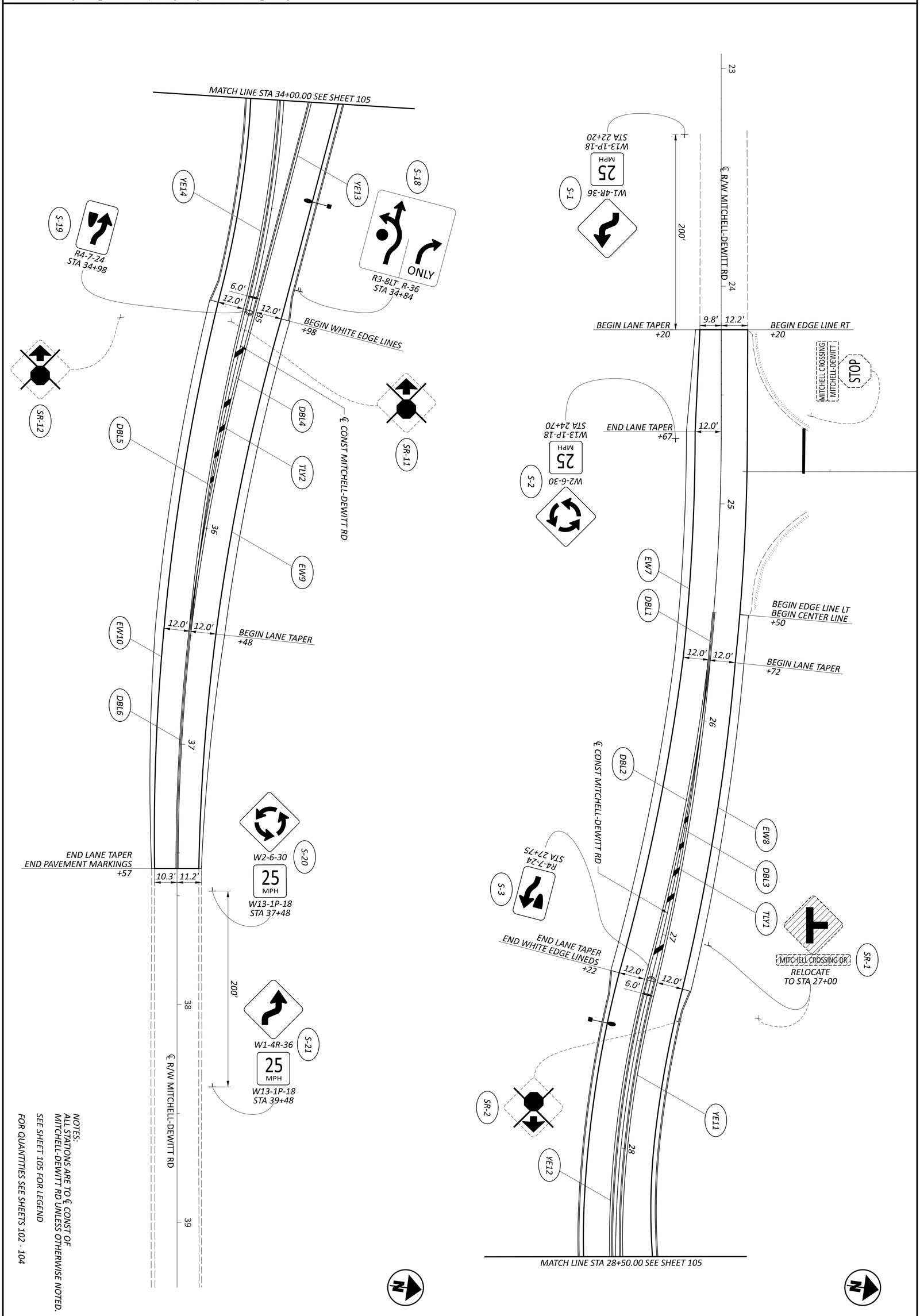

NOTES:
ALL STATIONS ARE TO ℄ CONST OF MITCHELL-DEWITT RD UNLESS OTHERWISE NOTED.

SEE SHEET 105 FOR LEGEND

FOR QUANTITIES SEE SHEETS 102 - 104

SHEET 106 / TOTAL 131	PROJECT ID 2022.01156	REVIEWER KAM 06/02/23	DESIGNER LZS	DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.	TRAFFIC CONTROL PLAN - MITCHELL-DEWITT RD STA 23+00.00 TO STA 28+50.00 & STA 34+00.00 TO STA 39+50.00

HORIZONTAL SCALE IN FEET
0 20
10 40

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:01 AM USER: lstutler
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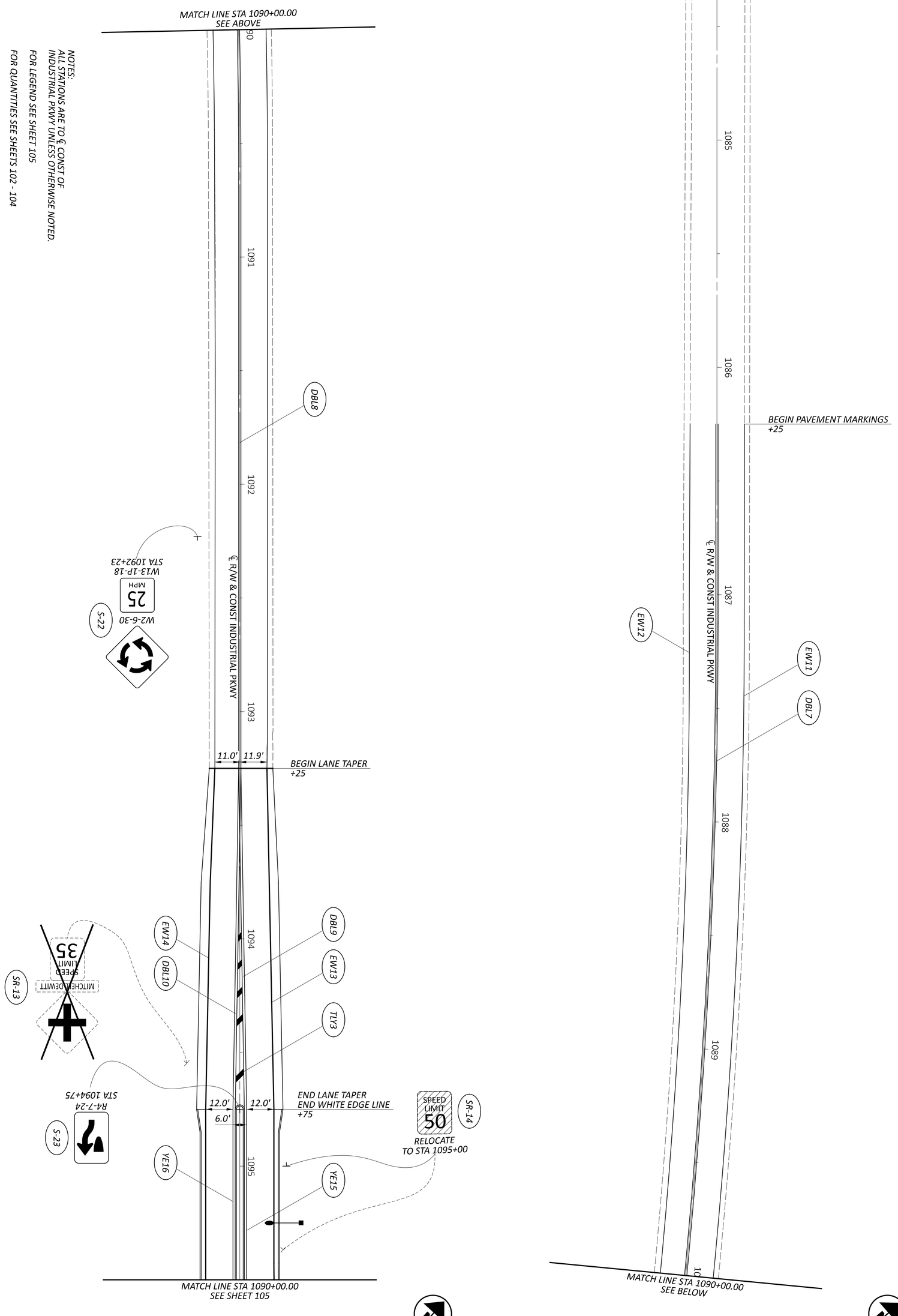
NOTES:
ALL STATIONS ARE TO ℄ CONST OF INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.

FOR LEGEND SEE SHEET 105

FOR QUANTITIES SEE SHEETS 102 - 104



DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
LZS	KAM 06/02/23	2022.01156	107	131

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

TRAFFIC CONTROL PLAN - INDUSTRIAL PKWY
STA. 1084+50.00 TO STA 1095+50.00

HORIZONTAL SCALE IN FEET
0 20
10 40

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:04 AM USER: lstutler
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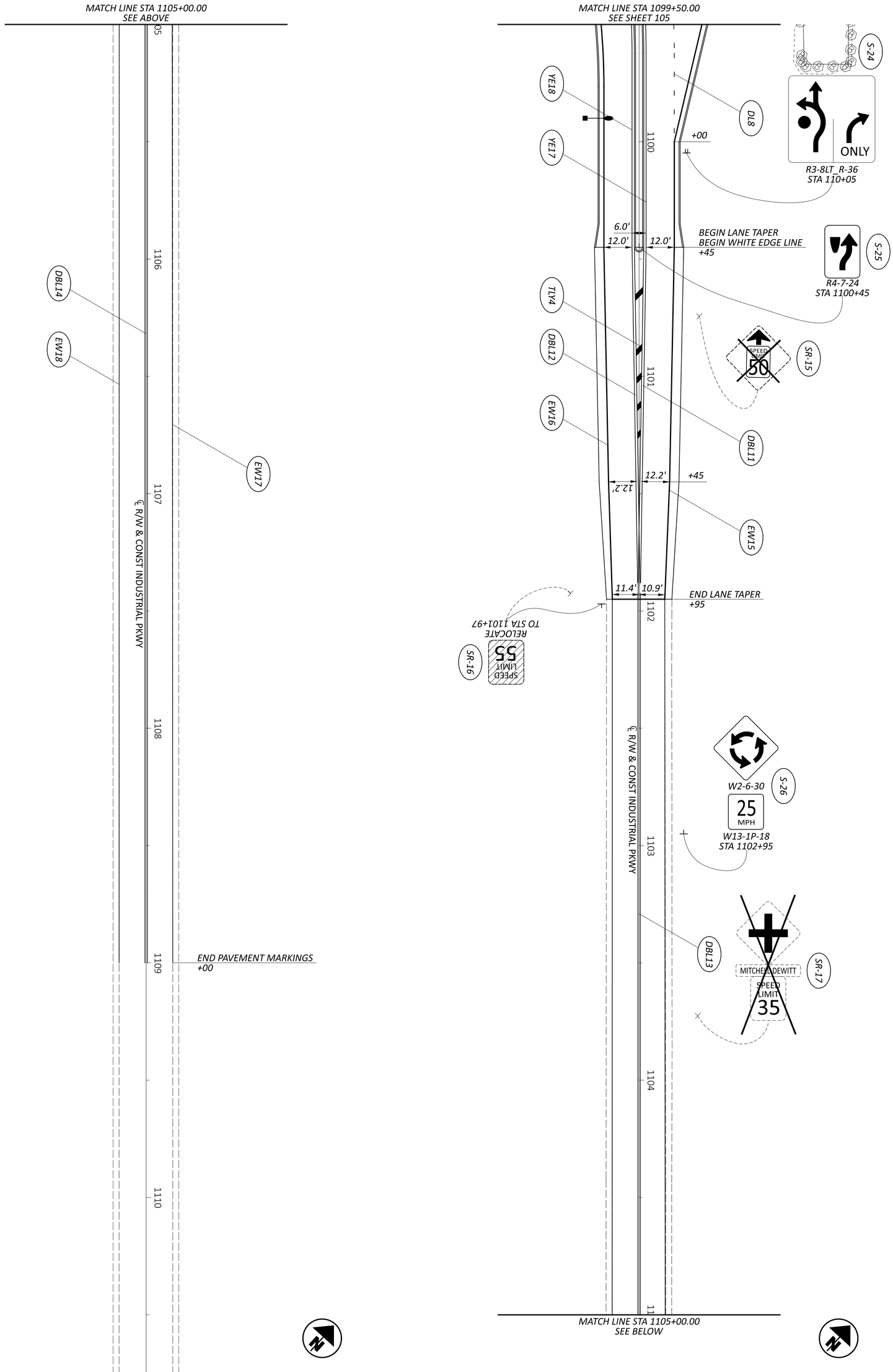

NOTES:
ALL STATIONS ARE TO ℄ CONST OF INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.

FOR LEGEND SEE SHEET 105

FOR QUANTITIES SEE SHEETS 102 - 104

DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET: 108 | TOTAL: 131
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

TRAFFIC CONTROL PLAN - INDUSTRIAL PKWY
STA. 1099+50.00 TO STA 1111+50.00

HORIZONTAL SCALE IN FEET
0 20
10 40

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:46:01 AM USER: lstutler
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625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY: AMERICAN ELECTRIC POWER
ADDRESS: 777 HOPEWELL DRIVE
HEATH, OH 43056
PHONE: 740-348-5322
CONTACT NAME: PAUL PAXTON

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN

THE CONTRACTOR SHALL INSTALL LED COBRA HEAD STYLE LUMINAIRES IN THE LOCATIONS SHOWN ON THE PLANS. THE LUMINAIRES SHALL HAVE A LUMEN OUTPUT OF APPROXIMATELY 11,000, A 3000K LIGHT COLOR, AND TYPE III DISTRIBUTION. THE FOLLOWING 3 LUMINAIRES WERE USED FOR THE PHOTOMETRICS ANALYSIS SHOWN IN THE PLANS:

AMERICAN ELECTRIC LIGHTING (AEL)
AUTOBAHN ATBS P60 PERFORMANCE PACKAGE
MODEL NO. ATBS-P60-XXXXX-R3-3K

COOPER LIGHTING SOLUTIONS
VERDEON ROADWAY AND AREA LUMINAIRE
MODEL NO. VERD-CA2-80-730-U-T3

GE LIGHTING SOLUTIONS
EVOLVE LED ROADWAY STREETLIGHT-ERLH
MODEL NO. ERLH_11C330

BECAUSE OF THE RAPID IMPROVEMENTS WITH LED LIGHTING, THE LUMNAIRE MODELS LISTED ABOVE MAY NO LONGER BE AVAILABLE AT THE TIME OF CONSTRUCTION. OTHER MODELS/MANUFACTURES ARE PERMITTED IF APPROVED BY THE ENGINEER, AS LONG AS THEY MEET THE LUMEN OUTPUT, DISTRIBUTION, AND COLOR REQUIREMENTS LISTED ABOVE.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

625, LIGHT POLE (INSTALLATION ONLY)

LIGHTING POLES, BRACKET ARMS AND AT BASES WILL BE PROVIDED BY THE COUNTY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF THE LIGHT POLES ONLY.

THE WORK FOR THIS ITEM, INCLUDING COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK, SHALL BE PAID FOR UNDER THE ALTERNATE BID ITEM, ITEM 625 - LIGHT POLE (INSTALLATION ONLY).

ITEM 625 LIGHTING, MISC.: TEMPORARY LIGHTING

IF THE CONTRACTOR IS UNABLE TO ACQUIRE THE PERMANENT AT BASES, LIGHT POLES, AND BRACKET ARMS SHOWN IN THE PLANS PRIOR TO THE ROUNDABOUT BEING OPEN TO TRAFFIC, TEMPORARY WOOD POLES SHALL BE USED. THE TEMPORARY LIGHTING SHALL BE AS DESCRIBED BELOW AND MEET THE FOLLOWING REQUIREMENTS:

1. *ALL PERMANENT CONDUIT, CIRCUITS, PULL BOXES, POLE FOUNDATIONS, AND DUCT CABLE SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE PERMANENT LIGHTING POWER SUPPLY AND CONTROL CENTER SHALL ALSO BE INSTALLED.*

2. *A TOTAL OF 8 TEMPORARY WOOD POLES SHALL BE INSTALLED, EACH APPROXIMATELY 2' BEHIND THE PERMANENT FOUNDATION LOCATIONS FOR POLES A-1, A-3, A-5, A-6, A-8, A-9, A-10, AND A-12. POLES SHALL BE PER CITY OF COLUMBUS MIS-042, AND HAVE A LENGTH OF 35'. MINIMUM DEPTH OF SETTING SHALL BE 6'.*

3. *WOOD POLES SHALL EACH HAVE A 10' BRACKET ARM PER CITY OF COLUMBUS MIS-005. THE PERMANENT LUMINAIRES SHALL BE ATTACHED TO THE BRACKET ARMS AND MOVED TO THE PERMANENT POLES WHEN THEY BECOME AVAILABLE.*

4. *IN LOCATIONS WHERE PERMANENT POLES WILL BE LOCATED BUT NO TEMPORARLY POLES PLACED (I.E. POLES A-2, A-4, A-7 AND A-11) TEMPORARLY SPLICING OF THE CIRCUITS SHALL BE COMPLETED TO MAKE THEM CONTINUOUS. THIS TEMPORARY SPLICING SHALL BE PROPERLY SECURED TO ELIMINATE RISK OF ELECTROCUTION OR DISCONNECTION OF THE CIRCUIT.*

5. *WHEN THE PERMANENT LIGHTING IS INSTALLED, THE 8 LUMINAIRES ON THE TEMPORARY POLES SHALL BE REMOVED AND TRANFSERRED TO THE PERMANENT POLES. IF THEY ARE DAMAGED DURNG THE REMOVAL PROCESS THEY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.*

6. *ALL VOIDS LEFT FROM THE REMOVAL OF THE TEMPORARY WOOD POLES SHALL BE BACKFILLED WITH ITEM 203 EMANKMENT.*

7. *ALL ADDITONAL HARDWARE INCLUDING RISERS, POLE AND BRACKET CABLE, AND SPLICES REQUIRED TO PROVIDE POWER TO THE TEMPORARY LIGHTING SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.*

8. *ALL WORK COMPLETED SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED ELECTRICIAN.*

9. *UPON REMOVAL OF THE WOOD POLES AND TEMPORARY BRACKET ARMS, THEY SHALL BE TURNED OVER TO UNION COUNTY.*

ALL EQUIPMENT, LABOR AND HARDWARE REQUIRED TO COMPLETE THE WORK DETAILED ABOVE SHALL BE INCLUDED UNDER THE LUMP SUM BID PRICE FOR ITEM 625 - LIGHTING, MISC.: TEMPORARY LIGHTING.

LIGHTING NOTES

DESIGN AGENCY
MORPHEUS STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 109 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	625 CONNECTION, FUSED PULL APART EACH	625 CONNECTION, UNFUSED PERMANENT EACH	625 LIGHT POLE (INSTALLATION ONLY) EACH	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	625 NO. 10 AWG POLE AND BRACKET CABLE FT	625 CONDUIT, 3", 725.04 FT	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN EACH	625 TRENCH FT	625 PULL BOX, 725.08, 24" EACH	625 GROUND ROD EACH	625 POWER SERVICE, AS PER PLAN EACH	625 UNDERGROUND WARNING/MARKING TAPE FT	625 HIGH VOLTAGE TEST LS	625 ARC FLASH CALCULATIONS AND LABEL EACH
1	112	MITCHELL-DEWITT RD	26+46.57	26+50.18	LT		3				19				9		1	1	9	LS	1
2	112	MITCHELL-DEWITT RD	26+50.18	27+40.00	LT	6					101				91	1			91		
3	112	MITCHELL-DEWITT RD	27+40.00	1096+55.00	LT		3	1	1		325	90		1	315		1		315		
4	112	MITCHELL-DEWITT RD	27+40.00	27+40.00	LT/RT	3				204			58		58				58		
5	112	MITCHELL-DEWITT RD	27+40.00	27+45.00	RT		3	1	1		15	76		1	5	1	1		5		
6	112	MITCHELL-DEWITT RD	27+45.00	28+85.00	RT		3	1	1		157	76		1	147		1		147		
7	112	MITCHELL-DEWITT RD	28+85.00	30+03.00	RT		3	1	1		136	76		1	126		1		126		
8	112	MITCHELL-DEWITT RD	30+03.00	1098+41.00	RT		3	1	1		119	76		1	109		1		109		
9	112	INDUSTRIAL PKWY	1098+41.00	1099+05.00	RT	6					80				70	1			70		
10	112	INDUSTRIAL PKWY	1099+05.00	1099+90.00	RT		3	1	1		100	76		1	90		1		90		
11	112	INDUSTRIAL PKWY	1099+05.00	1099+05.00	LT/RT	3				237			69		69	1			69		
12	112	INDUSTRIAL PKWY	1099+05.00	1098+57.00	LT		3	1	1		71			1	61		1		61		
13	112	MITCHELL-DEWITT RD	1098+57.00	32+79.00	RT		3	1	1		96	76		1	86		1		86		
14	112	INDUSTRIAL PKWY	1096+55.00	1096+25.00	RT	3					43				33	1			33		
15	112	INDUSTRIAL PKWY	1096+25.00	1096+25.00	LT/RT	6				201			57		57	1			57		
16	112	INDUSTRIAL PKWY	1095+25.00	1096+25.00	LT		3	1	1		116			1	106		1		106		
17	112	INDUSTRIAL PKWY	1096+25.00	31+67.00	LT		3	1	1		97	76		1	87		1		87		
18	112	MITCHELL-DEWITT RD	31+67.00	33+14.00	LT		3	1	1		174	76		1	164		1		164		
19	112	MITCHELL-DEWITT RD	33+14.00	34+45.00	LT		3	1	1		157	76		1	147		1		147		
TOTALS CARRIED TO GENERAL SUMMARY						27	39	12	12	642	1806	774	184	12	1830	6	13	1	1830	LS	1

LIGHTING SUBSUMMARY

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 110 | TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:09 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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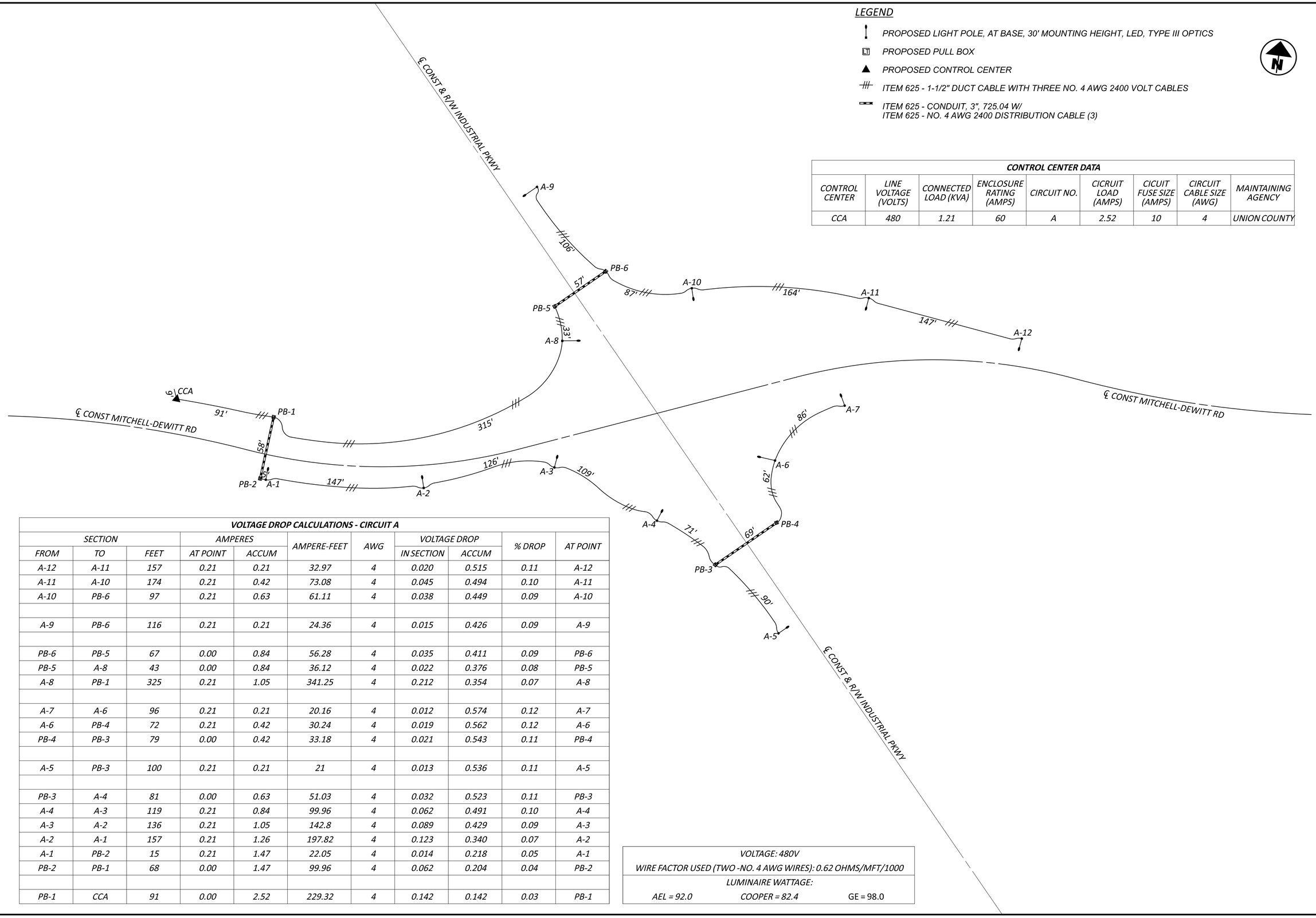
LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET: 0, 20, 40, 80



CONTROL CENTER DATA

CONTROL CENTER	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CICRUIT LOAD (AMPS)	CICUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
CCA	480	1.21	60	A	2.52	10	4	UNION COUNTY

VOLTAGE DROP CALCULATIONS - CIRCUIT A

SECTION			AMPERES		AMPERE-FEET	AWG	VOLTAGE DROP		% DROP	AT POINT
FROM	TO	FEET	AT POINT	ACCUM			IN SECTION	ACCUM		
A-12	A-11	157	0.21	0.21	32.97	4	0.020	0.515	0.11	A-12
A-11	A-10	174	0.21	0.42	73.08	4	0.045	0.494	0.10	A-11
A-10	PB-6	97	0.21	0.63	61.11	4	0.038	0.449	0.09	A-10
A-9	PB-6	116	0.21	0.21	24.36	4	0.015	0.426	0.09	A-9
PB-6	PB-5	67	0.00	0.84	56.28	4	0.035	0.411	0.09	PB-6
PB-5	A-8	43	0.00	0.84	36.12	4	0.022	0.376	0.08	PB-5
A-8	PB-1	325	0.21	1.05	341.25	4	0.212	0.354	0.07	A-8
A-7	A-6	96	0.21	0.21	20.16	4	0.012	0.574	0.12	A-7
A-6	PB-4	72	0.21	0.42	30.24	4	0.019	0.562	0.12	A-6
PB-4	PB-3	79	0.00	0.42	33.18	4	0.021	0.543	0.11	PB-4
A-5	PB-3	100	0.21	0.21	21	4	0.013	0.536	0.11	A-5
PB-3	A-4	81	0.00	0.63	51.03	4	0.032	0.523	0.11	PB-3
A-4	A-3	119	0.21	0.84	99.96	4	0.062	0.491	0.10	A-4
A-3	A-2	136	0.21	1.05	142.8	4	0.089	0.429	0.09	A-3
A-2	A-1	157	0.21	1.26	197.82	4	0.123	0.340	0.07	A-2
A-1	PB-2	15	0.21	1.47	22.05	4	0.014	0.218	0.05	A-1
PB-2	PB-1	68	0.00	1.47	99.96	4	0.062	0.204	0.04	PB-2
PB-1	CCA	91	0.00	2.52	229.32	4	0.142	0.142	0.03	PB-1

VOLTAGE: 480V

WIRE FACTOR USED (TWO -NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

LUMINAIRE WATTAGE:

AEL = 92.0 COOPER = 82.4 GE = 98.0

CIRCUIT DIAGRAM

DESIGN AGENCY: KIMLEY-HORN STRUCTUREPOINT INC.

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET: 111 TOTAL: 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80

EXISTING POWER POLE
STA 26+46.57, 40.24' LT.
PROP. POWER SERVICE "A"
(POLE MOUNTED)
240/480V, 3-WIRE, 200 AMP

PROPOSED CONTROL CENTER "A"
STA 26+50.14, 31.83' LT
℄ CONST MITCHELL-DEWITT RD

STA 1096+25.00, 22.00' RT.
℄ CONST & R/W INDUSTRIAL PKWY
PB-5, 24", 3 SPLICES

STA 1096+55.00, 34.32' RT.
℄ CONST & R/W INDUSTRIAL PKWY
A-8, AT15B30

STA 27+40.00, 35.00' LT.
℄ CONST MITCHELL-DEWITT RD
PB-1, 24", 6 SPLICES

STA 1095+25.00, 27.00' LT.
℄ CONST & R/W INDUSTRIAL PKWY
A-9, AT12B30

STA 1096+25.00, 35.00' LT.
℄ CONST & R/W INDUSTRIAL PKWY
PB-6, 24", 6 SPLICES

STA 31+67.00, 103.56' LT.
℄ CONST & R/W INDUSTRIAL PKWY
A-10, AT8B30

STA 33+14.00, 60.00' LT.
℄ CONST & R/W INDUSTRIAL PKWY
A-11, AT8B30

STA 34+45.00, 25.94' LT.
℄ CONST & R/W INDUSTRIAL PKWY
A-12, AT8B30

℄ CONST MITCHELL-DEWITT RD

STA 32+79.00, 35.15' RT.
℄ CONST & R/W INDUSTRIAL PKWY
A-7, AT8B30

STA 1098+57.00, 64.66' LT.
℄ CONST & R/W INDUSTRIAL PKWY
A-6, AT12B30

STA 1099+05.00, 33.50' LT.
℄ CONST & R/W INDUSTRIAL PKWY
PB-4, 24", 3 SPLICES

℄ CONST MITCHELL-DEWITT RD

STA 27+40.00, 23.00' RT.
℄ CONST MITCHELL-DEWITT RD
PB-2, 24", 3 SPLICES

STA 27+45.00, 23.00' RT.
℄ CONST MITCHELL-DEWITT RD
A-1, AT8B30

STA 28+85.00, 20.97' RT.
℄ CONST MITCHELL-DEWITT RD
A-2, AT8B30

STA 30+03.00, 24.53' RT.
℄ CONST MITCHELL-DEWITT RD
A-3, AT8B30

STA 1098+41.00, 56.41' RT.
℄ CONST MITCHELL-DEWITT RD
A-4, AT8B30

STA 1099+05.00, 35.00' RT.
℄ CONST & R/W INDUSTRIAL PKWY
PB-3, 24", 6 SPLICES

STA 1099+90.00, 23.00' RT.
℄ CONST & R/W INDUSTRIAL PKWY
A-5, AT8B30

℄ CONST & R/W INDUSTRIAL PKWY

NOTE:
FOR QUANTITIES SEE SHEET 110

LIGHTING PLAN

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 112 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:21 AM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:26 AM USER: lstutler
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LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80

℄ CONST & R/W INDUSTRIAL PKWY

℄ CONST MITCHELL-DEWITT RD

℄ CONST MITCHELL-DEWITT RD

℄ CONST & R/W INDUSTRIAL PKWY

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
ROUNDBAOUT	+	1.1 fc	3.0 fc	0.2 fc	15.0:1	5.5:1

LUMINAIRE LOCATIONS

NO.	LABEL	LOCATION						AIM		
		X	Y	Z	MH	ORIENTATION	TILT	X	Y	X
1	A	1768501.00	174052.20	30.00	30.00	266.66	0.00	1768501.00	174052.20	0.00
2	A	1768321.00	174025.90	30.00	30.00	9.45	0.00	1768321.00	174025.90	0.00
3	A	1768425.00	174137.40	30.00	30.00	83.39	0.00	1768425.00	174137.40	0.00
4	A	1768574.00	174191.80	30.00	30.00	163.49	0.00	1768574.00	174191.80	0.00
5	A	1768586.00	174120.00	30.00	30.00	335.77	0.00	1768586.00	174120.00	0.00
6	A	1768731.00	174205.00	30.00	30.00	183.13	0.00	1768731.00	174205.00	0.00
7	A	1768423.00	174186.70	30.00	30.00	184.88	0.00	1768423.00	174186.70	0.00
8	A	1786202.00	173989.80	30.00	30.00	27.36	0.00	1786202.00	173989.80	0.00
9	A	1768259.00	173993.10	30.00	30.00	347.91	0.00	1768259.00	173993.10	0.00
10	A	1768549.00	174261.80	30.00	30.00	223.72	0.00	1768549.00	174261.80	0.00
11	A	1768060.00	173900.60	30.00	30.00	41.63	0.00	1768060.00	173900.60	0.00
12	A	1768060.00	173979.40	30.00	30.00	5.58	0.00	1768060.00	173979.40	0.00

SCHEDULE

SYMBOL	LABEL	IMAGE	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE	PLOT
	A		12	AMERICAN ELECTRIC LIGHTING	ATBS P60 XXXX R3 3K	AUTOBAHN ATBS, P60 PERFORMANCE PACKAGE, ROADWAY TYPE III, 3000K CCT, 70 CRI MIN.	1	10911	0.85	92	Max: 5518cd

PHOTOMETRICS DETAILS - AEL

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 113 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:33 AM USER: lstutler
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LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
ROUNDBAOUT	+	1.0 fc	2.6 fc	0.3 fc	8.7:1	3.3:1

LUMINAIRE LOCATIONS

NO.	LABEL	LOCATION						AIM		
		X	Y	Z	MH	ORIENTATION	TILT	X	Y	X
1	A	1768501.00	174052.20	30.00	30.00	266.66	0.00	1768501.00	174052.20	0.00
2	A	1768321.00	174025.90	30.00	30.00	9.45	0.00	1768321.00	174025.90	0.00
3	A	1768425.00	174137.40	30.00	30.00	83.39	0.00	1768425.00	174137.40	0.00
4	A	1768574.00	174191.80	30.00	30.00	163.49	0.00	1768574.00	174191.80	0.00
5	A	1768586.00	174120.00	30.00	30.00	335.77	0.00	1768586.00	174120.00	0.00
6	A	1768731.00	174205.00	30.00	30.00	183.13	0.00	1768731.00	174205.00	0.00
7	A	1768423.00	174186.70	30.00	30.00	184.88	0.00	1768423.00	174186.70	0.00
8	A	1786202.00	173989.80	30.00	30.00	27.36	0.00	1786202.00	173989.80	0.00
9	A	1768259.00	173993.10	30.00	30.00	347.91	0.00	1768259.00	173993.10	0.00
10	A	1768549.00	174261.80	30.00	30.00	223.72	0.00	1768549.00	174261.80	0.00
11	A	1768060.00	173900.60	30.00	30.00	41.63	0.00	1768060.00	173900.60	0.00
12	A	1768060.00	173979.40	30.00	30.00	5.58	0.00	1768060.00	173979.40	0.00

SCHEDULE

SYMBOL	LABEL	IMAGE	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE	PLOT
	B		12	GE LIGHTING SOLUTIONS	ERLH_11C330_____	EVOLVE LED ROADWAY STREETLIGHT-ERLH	1	11000	0.85	98	Max: 8140cd

PHOTOMETRICS DETAILS - GE

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 114 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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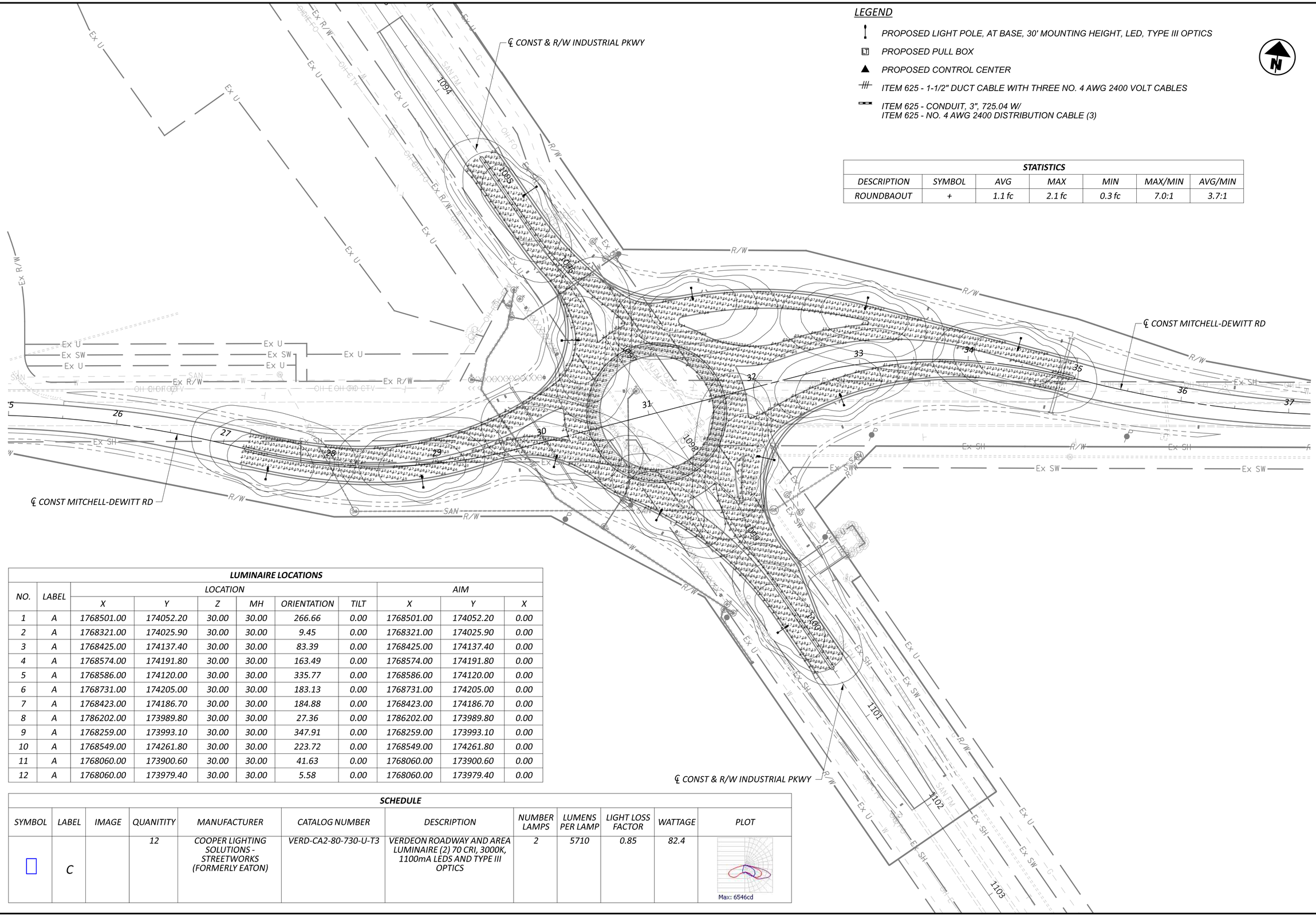


LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
ROUNDBAOUT	+	1.1 fc	2.1 fc	0.3 fc	7.0:1	3.7:1

LUMINAIRE LOCATIONS

NO.	LABEL	LOCATION						AIM		
		X	Y	Z	MH	ORIENTATION	TILT	X	Y	X
1	A	1768501.00	174052.20	30.00	30.00	266.66	0.00	1768501.00	174052.20	0.00
2	A	1768321.00	174025.90	30.00	30.00	9.45	0.00	1768321.00	174025.90	0.00
3	A	1768425.00	174137.40	30.00	30.00	83.39	0.00	1768425.00	174137.40	0.00
4	A	1768574.00	174191.80	30.00	30.00	163.49	0.00	1768574.00	174191.80	0.00
5	A	1768586.00	174120.00	30.00	30.00	335.77	0.00	1768586.00	174120.00	0.00
6	A	1768731.00	174205.00	30.00	30.00	183.13	0.00	1768731.00	174205.00	0.00
7	A	1768423.00	174186.70	30.00	30.00	184.88	0.00	1768423.00	174186.70	0.00
8	A	1786202.00	173989.80	30.00	30.00	27.36	0.00	1786202.00	173989.80	0.00
9	A	1768259.00	173993.10	30.00	30.00	347.91	0.00	1768259.00	173993.10	0.00
10	A	1768549.00	174261.80	30.00	30.00	223.72	0.00	1768549.00	174261.80	0.00
11	A	1768060.00	173900.60	30.00	30.00	41.63	0.00	1768060.00	173900.60	0.00
12	A	1768060.00	173979.40	30.00	30.00	5.58	0.00	1768060.00	173979.40	0.00

SCHEDULE

SYMBOL	LABEL	IMAGE	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE	PLOT
	C		12	COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON)	VERD-CA2-80-730-U-T3	VERDEON ROADWAY AND AREA LUMINAIRE (2) 70 CRI, 3000K, 1100mA LEDS AND TYPE III OPTICS	2	5710	0.85	82.4	Max: 6546cd

PHOTOMETRICS DETAILS - COOPER

DESIGN AGENCY
STRUCTUREPOINT LLC

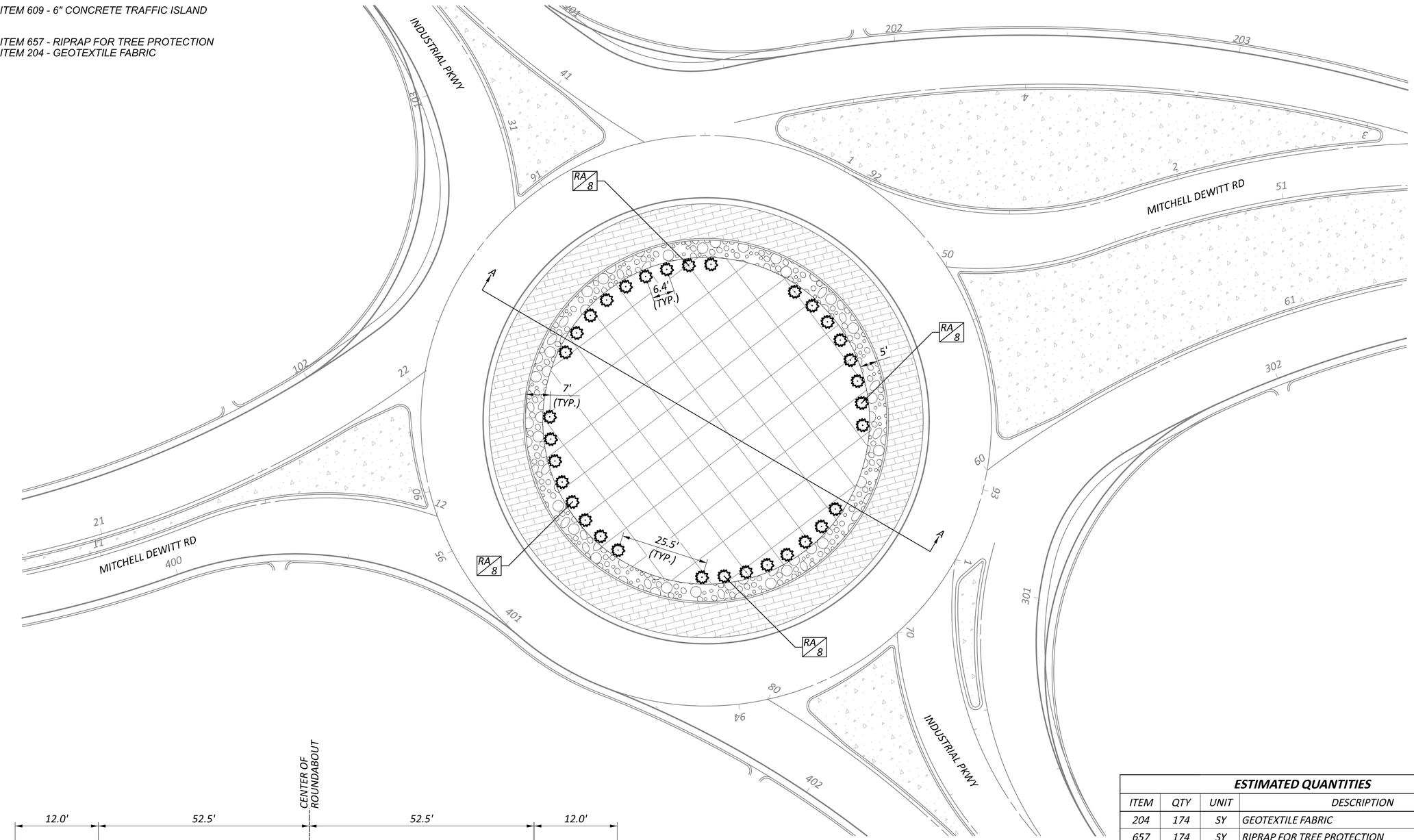
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 115 TOTAL 131

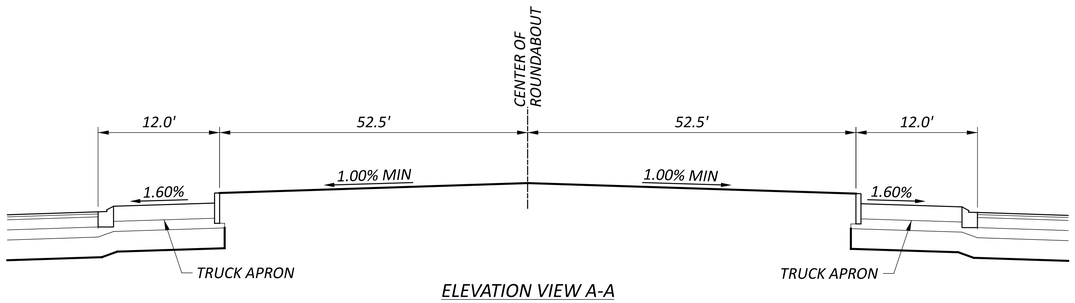
LEGEND

- ITEM 659 - SEEDING AND MULCHING
- ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1
- ITEM 609 - 6" CONCRETE TRAFFIC ISLAND
- ITEM 657 - RIPRAP FOR TREE PROTECTION
  ITEM 204 - GEOTEXTILE FABRIC

PLANTING SCHEDULE

ITEM	DESCRIPTION	KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE
			SHRUB			
661	DECIDUOUS SHRUB, 12" HEIGHT	RA	32	RHUS AROMATICA	FRAGRANT SUMAC	3 GAL





ELEVATION VIEW A-A

ESTIMATED QUANTITIES

ITEM	QTY	UNIT	DESCRIPTION
204	174	SY	GEOTEXTILE FABRIC
657	174	SY	RIPRAP FOR TREE PROTECTION
659	87	CY	TOPSOIL
659	779	SY	SEEDING AND MULCHING
659	0.11	TON	COMMERCIAL FERTILIZER
659	5	MGAL	WATER
661	32	EACH	DECIDUOUS SHRUB, 12" HEIGHT
662	384	GAL	LANDSCAPE WATERING

HORIZONTAL SCALE IN FEET
0 20 40 80

LANDSCAPING PLAN

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:46 AM USER: lstutler
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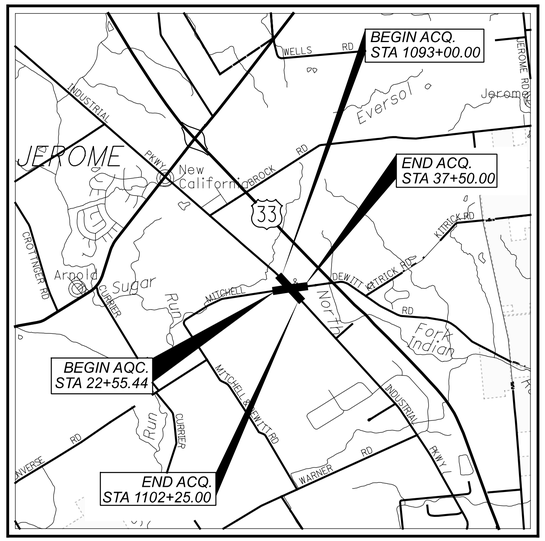
DESIGN AGENCY
STRUCTUREPOINT

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 116 TOTAL 131

RIGHT OF WAY LEGEND SHEET
INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME
VIRGINIA MILITARY SURVEY NO. 5134



LOCATION MAP

LATITUDE: N40°08'32" LONGITUDE: W83°12'56"

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF IMPROVING THE INTERSECTION OF INDUSTRIAL PKWY AND MITCHELL-DEWITT RD FROM A STOP CONTROLLED INTERSECTION TO A ROUNDABOUT INTERSECTION WITH CURB AND GUTTER, ROADSIDE DITCHES, CULVERT REPLACEMENTS AND NECESSARY UTILITY RELOCATION.

PROJECT CONTROL

STATE PLANE GRID OHIO NORTH
PROJECT ADJUSTMENT FACTOR 0.9999719361 (SCALED ABOUT CP 1500)

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)

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

TYPES OF TITLE LEGEND:

WD = WARRANTY DEED

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2-3
PROPERTY MAP	4
SUMMARY SHEET	5
R/W TOPO SHEETS	6-14 (EVEN)
R/W BOUNDARY SHEETS	7-15 (ODD)

PLANS PREPARED BY:

FIRM NAME : AMERICAN STRUCTUREPOINT, INC.
R/W DESIGNER: M.W. MAYES/J.B. YOUMANS
R/W REVIEWER: MICHAEL J. WARD
FIELD REVIEWER: A. WESTCOTT / R. MOSELEY
PRELIMINARY FIELD REVIEW DATE: 1/9/2023
TRACINGS FIELD REVIEW DATE: 3/7/2023
OWNERSHIP UPDATED BY: J.B. YOUMANS
DATE COMPLETED: 3/13/2023
PLAN COMPLETION DATE: 5/17/2023

UTILITES

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

TELEPHONE & CABLE
AT&T (FORMERLY SBC)
ATT: DONALD G MARSHALL JR
111 N 4TH ST
COLUMBUS, OH 43215
614-216-2396
G01553@ATT.COM

CHARTER COMMNUNICATIONS/SPECTRUM
(AKA TIME WARNER COMMUNICATIONS)
3760 INTERCHANGE ROAD
COLUMBUS, OH 43204
DL-MOH-CONSTRUCTION-FRELO-TEAM@CHARTER.COM

ZAYO FIBER SOLUTIONS
ATTN: ERIC L ALEXANDER
251 NEILSON STREET
COLUMBUS, OH 43215
614-989-9655
ERIC.ALEXANDER@ZAYO.COM

ELECTRIC
AMERICAN ELECTRIC POWER
ATTN: PAUL PAXTON
777 HOPEWELL DRIVE
HEATH, OH 43056
740-348-5322
PTPAXTON@AEP.COM

UNION RURAL ELECTRIC COOPERATIVE, INC.
ATTN: HEDY NELSON
15461 US HWY 36
MARYSVILLE, OH 43040
937-642-1826

SEWER
CITY OF MARYSVILLE
ATTN: RICHARD FELTON
12901 BEECHER-GAMBLE ROAD
MARYSVILLE, OHIO 43040
937-642-1036
RFELTON@MARYSVILLOHIO.ORG

WATER
CITY OF MARYSVILLE
ATTN: SCOTT SHEPPEARD
455 N. MAPLE STREET
MARYSVILLE, OHIO 43040
937-645-7350
SSHEPPEARD@MARYSVILLEOHIO.ORG

GAS
COLUMBIA GAS OF OHIO
ATTN: ROB CALDWELL
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231
614-818-2104
RCALDWELL@NISOURCE.COM

CONVENTIONAL SYMBOLS

Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Utility Ease. (Ex) Ex U
Sewer Ease. (Ex) Ex SW
Fence Line (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)

Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol Example
Tree (Pr) Tree (Ex) Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) MB , Mailbox (Pr) MB
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex) WM
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

I, Michael J. Ward, P. S. have conducted a survey of the existing conditions for the Union County Board of Commissioners on September 29, 2022. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinates System North Zone on NAD 83 (2011 Adjustment) datum. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates (US Survey Feet) by a Project Adjustment Factor of 0.9999719361. As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Michael J. Ward, Professional Land Surveyor 8808 Date:

SURVEYORS SEAL

AMERICAN STRUCTUREPOINT INC.
2550 CORPORATE EXCHANGE DR, STE 300
COLUMBUS, OH 43231
TEL 614.901.2235 FAX 614.901.2236
www.structurepoint.com

RIGHT-OF-WAY LEGEND SHEET

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: JBY/MWM
REVIEWER: MJW 06/02/23
PROJECT ID: 2022.01156
SUBSET 1 TOTAL 15
SHEET 117 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RL001 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:49 AM USER: lstutler
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INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134

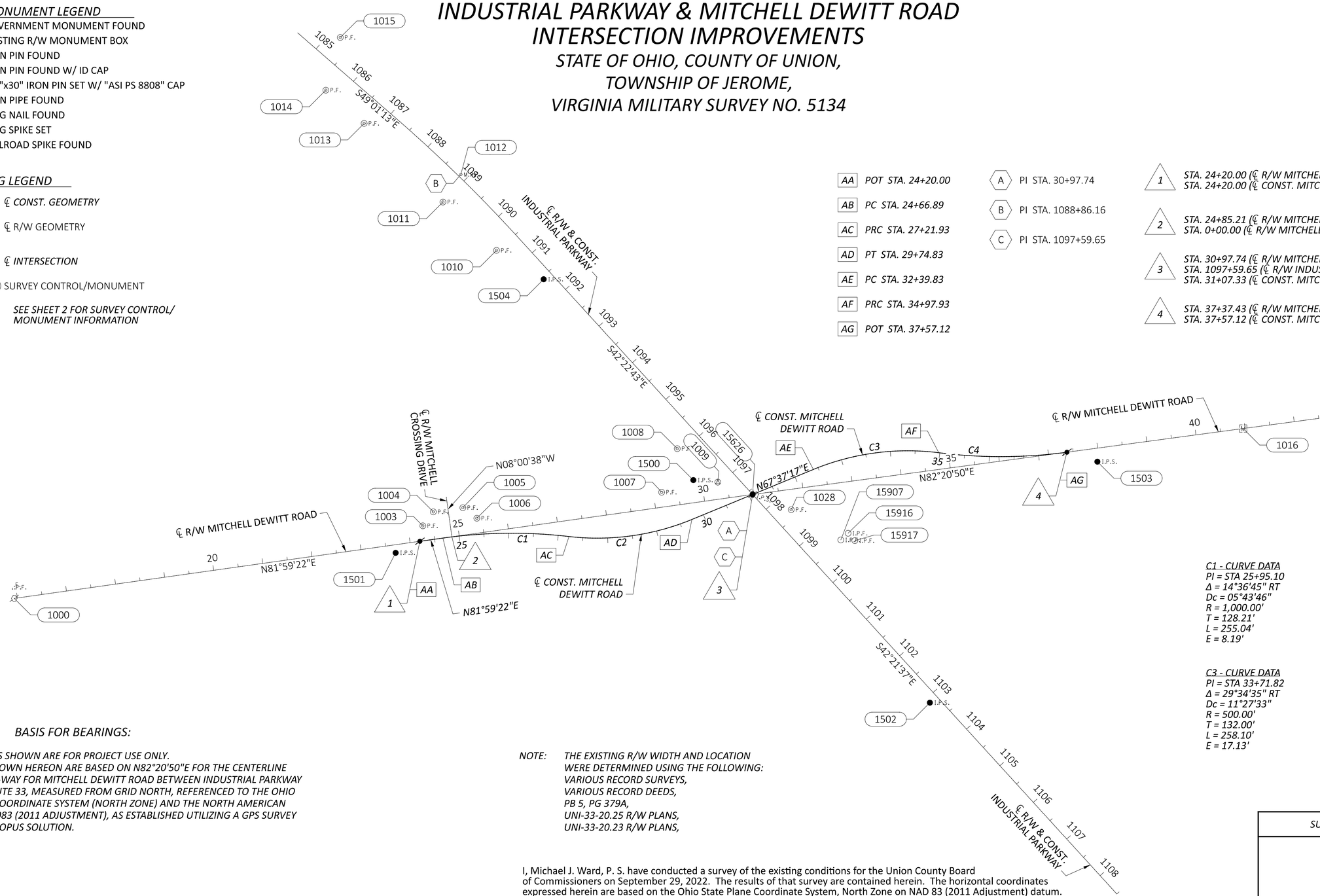
MONUMENT LEGEND

- GOVERNMENT MONUMENT FOUND
- EXISTING R/W MONUMENT BOX
- I.R.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. 5/8"x30" IRON PIN SET W/ "ASI PS 8808" CAP
- P.F. IRON PIPE FOUND
- M.N.F. MAG NAIL FOUND
- MAG SPIKE SET
- RAILROAD SPIKE FOUND

TAG LEGEND

- XX ℄ CONST. GEOMETRY
- X ℄ R/W GEOMETRY
- X ℄ INTERSECTION
- XXXX SURVEY CONTROL/MONUMENT

NOTE: SEE SHEET 2 FOR SURVEY CONTROL/ MONUMENT INFORMATION



AA POT STA. 24+20.00	A PI STA. 30+97.74	1	STA. 24+20.00 (℄ R/W MITCHELL DEWITT RD) = STA. 24+20.00 (℄ CONST. MITCHELL DEWITT RD)
AB PC STA. 24+66.89	B PI STA. 1088+86.16	2	STA. 24+85.21 (℄ R/W MITCHELL DEWITT RD) = STA. 0+00.00 (℄ R/W MITCHELL CROSSING DR)
AC PRC STA. 27+21.93	C PI STA. 1097+59.65	3	STA. 30+97.74 (℄ R/W MITCHELL DEWITT RD) = STA. 1097+59.65 (℄ R/W INDUSTRIAL PARKWAY) = STA. 31+07.33 (℄ CONST. MITCHELL DEWITT RD)
AD PT STA. 29+74.83		4	STA. 37+37.43 (℄ R/W MITCHELL DEWITT RD) = STA. 37+57.12 (℄ CONST. MITCHELL DEWITT RD)
AE PC STA. 32+39.83			
AF PRC STA. 34+97.93			
AG POT STA. 37+57.12			

C1 - CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

C4 - CURVE DATA
PI = STA 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000.00'
T = 130.33'
L = 259.19'
E = 8.46'

BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.
BEARINGS SHOWN HEREON ARE BASED ON N82°20'50"E FOR THE CENTERLINE OF RIGHT-OF-WAY FOR MITCHELL DEWITT ROAD BETWEEN INDUSTRIAL PARKWAY AND U.S. ROUTE 33, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLAN COORDINATE SYSTEM (NORTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING THE FOLLOWING:
VARIOUS RECORD SURVEYS,
VARIOUS RECORD DEEDS,
PB 5, PG 379A,
UNI-33-20.25 R/W PLANS,
UNI-33-20.23 R/W PLANS,

I, Michael J. Ward, P. S. have conducted a survey of the existing conditions for the Union County Board of Commissioners on September 29, 2022. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, North Zone on NAD 83 (2011 Adjustment) datum. The Project Coordinates (US Survey feet) are relative to State Plane Grid Coordinates (US Survey feet) by a Project Adjustment Factor multiplier of 0.9999719361. As a part of this project I have reestablished the locations of the existing property lines and centerline of existing Right of Way for property takes contained herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Michael J. Ward, Professional Land Surveyor No. 8808, Date:

RECEIVED _____, 20 ____
RECORDED _____, 20 ____
BOOK _____ PAGE _____
COUNTY RECORDER

SURVEYORS SEAL

HORIZONTAL SCALE IN FEET
0 50 100 200

RIGHT-OF-WAY CENTERLINE PLAT - SHEET 1 OF 2

DESIGN AGENCY
STRUCTUREPOINT LLC
A WEPEAN COMPANY

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 2 TOTAL 15
SHEET 118 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RC001 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:52 AM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\RW\Sheets\01156_RC001.dgn

INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD
INTERSECTION IMPROVEMENTS

EXISTING ALIGNMENT MONUMENTS (GROUND COORDINATES)						
POINT	**NORTHING**	**EASTING**	**STATION**	**OFFSET**	**ALIGNMENT**	**DESCRIPTION**
1000	*173871.473*	*1766914.670*	*15+93.66*	*0.00'*	*CL R/W MITCHELL DEWITT ROAD*	*RAILROAD SPIKE FOUND; POINT OF TANGENCY*
1012	*174726.388*	*1767815.483*	*1088+86.22*	*0.17' LT*	*CL R/W INDUSTRIAL PARKWAY*	*MAG NAIL FOUND; POINT OF INTERSECTION*
1016	*174214.017*	*1769393.572*	*40+96.13*	*0.00'*	*CL R/W MITCHELL DEWITT ROAD*	*1" IRON PIN FOUND IN MONUMENT BOX ASSEMBLY; POINT OF TANGENCY*
15626	*174081.061*	*1768404.076*	*1097+59.65*	*0.00'*	*CL R/W INDUSTRIAL PARKWAY*	*RAILROAD SPIKE FOUND; POINT OF INTERSECTION* ***(TO BE SET AFTER CONSTRUCTION WITH A 5/8" DIAMETER BY 30" LONG IRON PIN W/ "ASI PS 8808"***
			30+97.74	*0.00'*	*CL R/W MITCHELL DEWITT ROAD*	

PROPOSED ALIGNMENT MONUMENTS (GROUND COORDINATES)						
POINT #	**NORTHING**	**EASTING**	**STATION**	**OFFSET**	**ALIGNMENT**	**DESCRIPTION**
1 / AA	*173986.614*	*1767732.949*	*24+20.00*	*0.00' RT*	*CL R/W MITCHELL DEWITT ROAD*	*MAG SPIKE SET; INTERSECTION CL R/W MITCHELL DEWITT ROAD AND CL CONST. MITCHELL DEWITT ROAD* ***(TO BE SET AFTER CONSTRUCTION)***
			24+20.00	*0.00' RT*	*CL CONST. MITCHELL DEWITT ROAD*	
15626	*174081.061*	*1768404.076*	*1097+59.65*	*0.00' RT*	*CL R/W INDUSTRIAL PARKWAY*	*RAILROAD SPIKE FOUND; POINT OF INTERSECTION* ***(TO BE SET AFTER CONSTRUCTION WITH A 5/8" DIAMETER BY 30" LONG IRON PIN W/ "ASI PS 8808"***
			30+97.74	*0.00' RT*	*CL R/W MITCHELL DEWITT ROAD*	
4 / AG	*174166.249*	*1769038.068*	*37+37.43*	*0.00' RT*	*CL R/W MITCHELL DEWITT ROAD*	*MAG SPIKE SET; INTERSECTION CL R/W MITCHELL DEWITT ROAD AND CL CONST. MITCHELL DEWITT ROAD* ***(TO BE SET AFTER CONSTRUCTION)***
			37+57.12	*0.00' RT*	*CL CONST. MITCHELL DEWITT ROAD*	

EXISTING SURVEY CONTROL & MONUMENTS (GROUND COORDINATES)						
POINT #	**NORTHING**	**EASTING**	**STATION**	**OFFSET**	**ALIGNMENT**	**DESCRIPTION**
1003	*174017.845*	*1767738.888*	*00+30.10*	*54.98' LT*	*CL R/W MITCHELL CROSSING DRIVE*	*3/4" BENT IRON PIPE FOUND W/ "ADVANCED" CAP*
			24+30.23	*30.10' LT*	*CL R/W MITCHELL DEWITT ROAD*	
1004	*174046.032*	*1767760.049*	*00+55.06*	*30.09' LT*	*CL R/W MITCHELL CROSSING DRIVE*	*3/4" IRON PIPE FOUND W/ "ADVANCED" CAP*
			24+55.12	*55.06' LT*	*CL R/W MITCHELL DEWITT ROAD*	
1005	*174054.382*	*1767819.557*	*00+55.04*	*30.00' RT*	*CL R/W MITCHELL CROSSING DRIVE*	*3/4" IRON PIPE FOUND W/ "ADVANCED" CAP*
			25+15.21	*55.04 LT*	*CL R/W MITCHELL DEWITT ROAD*	
1006	*174033.137*	*1767847.784*	*00+30.07*	*54.99' RT*	*CL R/W MITCHELL CROSSING DRIVE*	*3/4" IRON PIPE FOUND W/ "ADVANCED" CAP*
			25+40.20	*30.07' LT*	*CL R/W MITCHELL DEWITT ROAD*	
1007	*174085.55*	*1768220.559*	*29+16.64*	*30.02' LT*	*CL R/W MITCHELL DEWITT ROAD*	*3/4" IRON PIPE FOUND W/ "ADVANCED" CAP*
1008	*174173.382*	*1768252.173*	*1095+89.07*	*49.99' RT*	*CL R/W INDUSTRIAL PARKWAY*	*3/4" IRON PIPE FOUND W/ "ADVANCED" CAP*
1009	*174105.989*	*1768333.855*	*1096+93.91*	*35.07' RT*	*CL R/W INDUSTRIAL PARKWAY*	*GOVERNMENT MONUMENT; DISK INSCRIBED "117 WSM 1953 RESET 1963" SET IN CONCRETE*
			30+31.68	*34.47' LT*	*CL R/W MITCHELL DEWITT ROAD*	
1010	*174573.351*	*1767887.395*	*1090+47.74*	*49.86' RT*	*CL R/W INDUSTRIAL PARKWAY*	*3/4" BENT IRON PIPE FOUND*
1011	*174670.766*	*1767779.418*	*1089+03.00*	*63.96' RT*	*CL R/W INDUSTRIAL PARKWAY*	*3/4" IRON PIPE FOUND W/ "ADVANCED" CAP*
1028	*174050.369*	*1768481.915*	*1098+34.78*	*36.84' LT*	*CL R/W INDUSTRIAL PARKWAY*	*3/4" BENT IRON PIPE FOUND*
			31+70.80	*40.78' RT*	*CL R/W MITCHELL DEWITT ROAD*	
15907	*173989.312*	*1768581.976*	*1099+47.31*	*69.64' LT*	*CL R/W INDUSTRIAL PARKWAY*	*5/8" IRON PIN FOUND W/ "TEAM FISHEL SURVEY" CAP*
15916	*174002.806*	*1768596.667*	*1099+47.24*	*89.58' LT*	*CL R/W INDUSTRIAL PARKWAY*	*5/8" IRON PIN FOUND W/ "TEAM FISHEL SURVEY" CAP*
15917	*173988.031*	*1768610.318*	*1099+67.36*	*89.72' LT*	*CL R/W INDUSTRIAL PARKWAY*	*5/8" IRON PIN FOUND W/ "TEAM FISHEL SURVEY" CAP*

SURVEY CONTROL POINTS SET (GROUND COORDINATES)						
POINT #	**NORTHING**	**EASTING**	**STATION**	**OFFSET**	**ALIGNMENT**	**DESCRIPTION**
1500	*174110.086*	*1768284.560*	*1096+57.65*	*68.72' RT*	*CL R/W INDUSTRIAL PARKWAY*	*5/8" IRON PIN SET W/ "ASI CONTROL" CAP*
			29+83.44	*45.40 LT*	*CL R/W MITCHELL DEWITT ROAD*	*5/8" IRON PIN SET W/ "ASI CONTROL" CAP*
1501	*173963.354*	*1767684.037*	*23+68.32*	*16.22 RT*	*CL R/W MITCHELL DEWITT ROAD*	*5/8" IRON PIN SET W/ "ASI CONTROL" CAP*
1502	*173661.151*	*1768761.658*	*1103+10.87*	*18.71 RT*	*CL R/W INDUSTRIAL PARKWAY*	*5/8" IRON PIN SET W/ "ASI CONTROL" CAP*
1503	*174147.203*	*1769099.497*	*37+95.78*	*27.06 RT*	*CL R/W MITCHELL DEWITT ROAD*	*5/8" IRON PIN SET W/ "ASI CONTROL" CAP*
1504	*174515.138*	*1767982.628*	*1091+54.93*	*18.75 RT*	*CL R/W INDUSTRIAL PARKWAY*	*5/8" IRON PIN SET W/ "ASI CONTROL" CAP*

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RC002 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:54 AM USER: lstutler
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RIGHT-OF-WAY CENTERLINE PLAT - SHEET 2 OF 2

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
JBY/MWM

REVIEWER
MJW 06/02/23

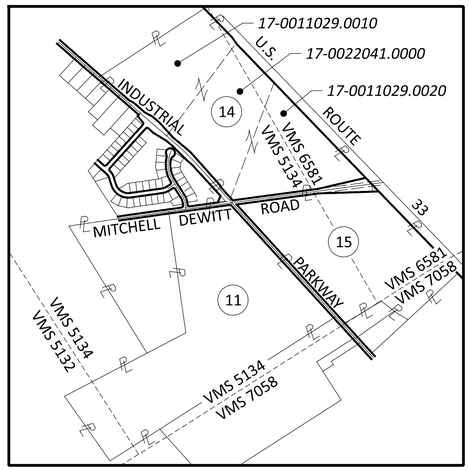
PROJECT ID
2022.01156

SUBSET 3 | TOTAL 15

SHEET 119 | TOTAL 131

INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



PROPERTY OVERVIEW
(SCALE - 1:1000)

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

(10) PID: 17-0022029.0010
MITCHELL CROSSING HOA
NO ADDITIONAL R/W REQUIRED

(13) PID: 170022027.0220
UNION COUNTY BOARD
OF COMMISSIONERS
NO ADDITIONAL R/W REQUIRED

HORIZONTAL SCALE IN FEET
0 25 50 100

(14) PID: 17-0022041.0000
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION

PID: 17-0011029.0020

(12) PID: 17-0022029.0230
MITCHELL CROSSING HOA

(15) PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL,
TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE
TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER,
TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE
TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)

(11) PID: 15-0022037.0010
MITCHELL FARMS LLC

BEGIN RW ACQUISITION
STA. 1093+00.00

BEGIN RW ACQUISITION
STA. 22+55.44

END RW ACQUISITION
STA. 37+50.00

END RW ACQUISITION
STA. 1102+25.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JBY/MWM
REVIEWER	MJW 06/02/23
PROJECT ID	2022.01156
SUBSET	4
TOTAL	15
SHEET	120
TOTAL	131

PROPERTY MAP

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RM001 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:39:57 AM USER: lstutler
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TOTAL NUMBER OF :

3 OWNERSHIPS 0 TOTAL TAKES

3 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET TAKE = GROSS TAKE - PRO IN TAKE

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF UNION COUNTY BOARD OF COMMISSIONERS UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNER'S RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED INST. NO.
1-9	NOT USED												100% LOCAL		
10	MITCHELL CROSSING HOA	6-7	I.N. 201612050010037	17-0022029.0010	3.092	0.000								NO ADDITIONAL RIGHT-OF-WAY REQUIRED	
11-WD	MITCHELL FARMS LLC	6-9	O.R. 783, PG. 539	15-0022037.0010	109.400	1.868 (c)	1.902	0.795	1.107					(0.348 AC. EASE. OVERLAP)	
		14-15	O.R. 893, PG. 536											+3 METAL POSTS, +1 PRIVATE SIGN	
12	MITCHELL CROSSING HOA	6-9	I.N. 201612050010037	17-0022029.0230	9.364	0.000	0.000	0.000	0.000					NO ADDITIONAL RIGHT-OF-WAY REQUIRED	
		12-13													
13	UNION COUNTY BOARD OF COMMISSIONERS	8-9	PB 5, PG 379A	17-0022027.0220	0.100	0.1000	0.000							DEDICATED R/W (PB 5, PG 379A)	
														NO ADDITIONAL R/W REQUIRED	
14-WD	DUBLIN CITY SCHOOL DISTRICT	8-13	I.N. 202209010008363	17-0011029.0010	32.624	1.1288	0.000	0.000	0.000					(0.204 AC. EASE. OVERLAP)	
	BOARD OF EDUCATION		I.N. 202209010008364	17-0022041.0000	32.624	1.103 (c)	0.596	0.329	0.267						
			I.N. 202209010008362	17-0011029.0020	32.624	0.815 (c)	1.461	0.474	0.987						
	14-WD TOTAL				**97.872**	**3.047**	**2.057**	**0.803**	**1.254**						
15-WD	CAROLYN L. MITCHELL AND JAMES CARSON	8-11	O.R. 721, PG. 894	17-0022038.0010	70.502	2.618 (c)	1.102	0.730	0.372					(0.345 AC. EASE. OVERLAP)	
	MITCHELL, TRUSTEES OF THE JAMES C. MITCHELL	14-15													
	IRREVOCABLE TRUST DATED														
	JANUARY 18, 2007 (1/2 INTEREST)														
	AND														
	JAMES C. MITCHELL AND MICHELLE D.		O.R. 729, PG. 708												
	MITCHELL DETWILER, TRUSTEES OF THE CAROLYN														
	L. MITCHELL IRREVOCABLE TRUST DATED														
	FEBRUARY 26, 2007 (1/2 INTEREST)														

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

NOTE: ALL TEMPORARY PARCELS TO BE OF 6 MONTH DURATION.

TYPES OF TITLE LEGEND:

WD = WARRANTY DEED

+ DENOTES REMOVAL ITEMS SEE CORRESPONDING RIGHT OF WAY PLAN SHEET FOR DESCRIPTION

** DENOTES RIGHT OF WAY ENCROACHMENT*

(c) = CALCULATED AREA

REV. BY	DATE	DESCRIPTION

FIELD REVIEW BY R. MOSELEY DATE: 3/7/2023

OWNERSHIP VERIFIED BY J.B. YOUMANS DATE: 3/13/2023

DATE COMPLETED 05/17/2023

SUMMARY OF ADDITIONAL RIGHT-OF-WAY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: JBY/MWM

REVIEWER: MJW 06/02/23

PROJECT ID: 2022.01156

SUBSET: 5 TOTAL: 15

SHEET: 121 TOTAL: 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RS001 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:00 AM USER: lstutler
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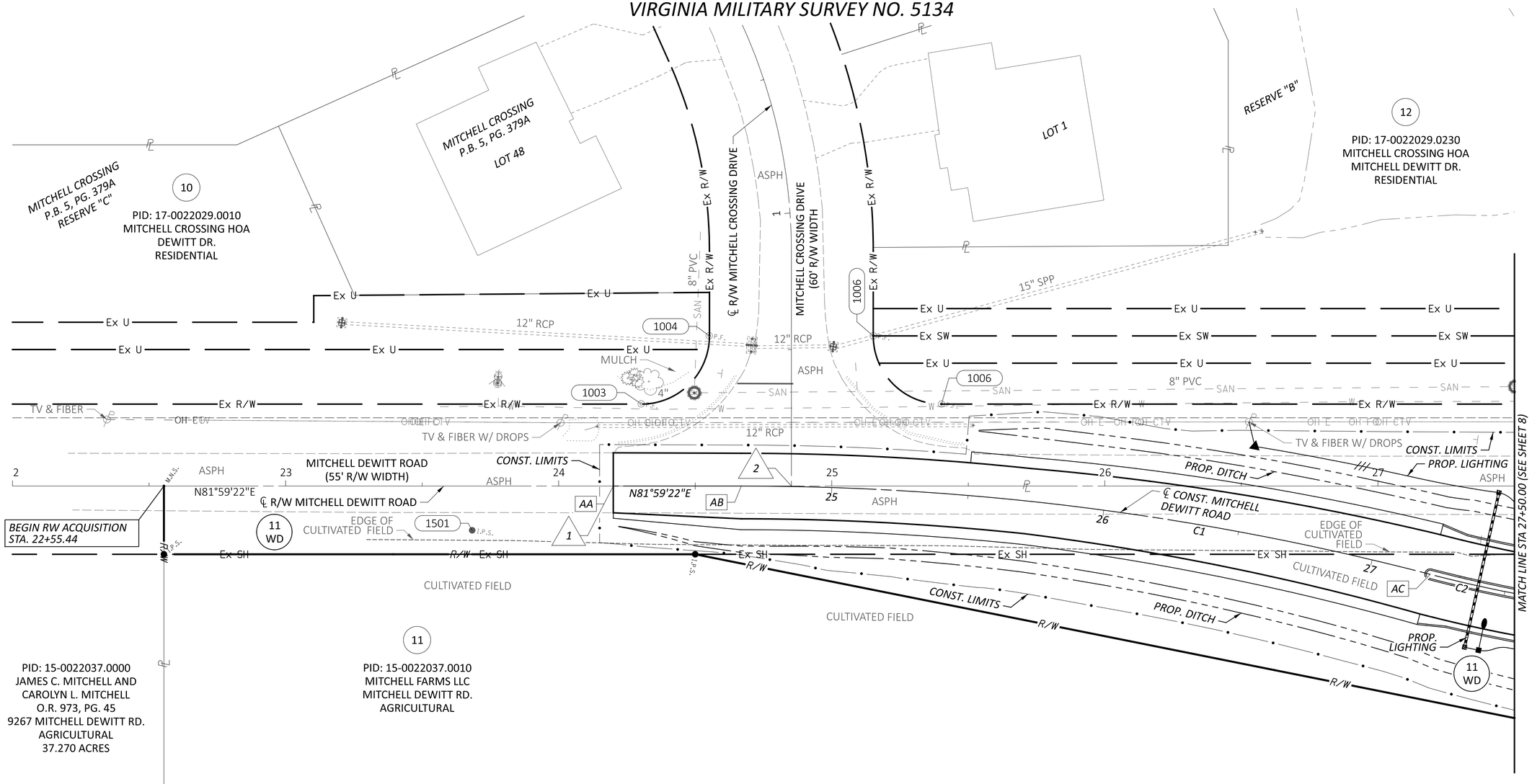
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



1 *STA. 24+20.00 (℄ R/W MITCHELL DEWITT RD) = STA. 24+20.00 (℄ CONST. MITCHELL DEWITT RD)*

2 *STA. 24+85.21 (℄ R/W MITCHELL DEWITT RD) = STA. 0+00.00 (℄ R/W MITCHELL CROSSING DR)*

AA *POT STA. 24+20.00*

AB *PC STA. 24+66.89*

AC *PRC STA. 27+21.93*

C1 - CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY TOPO SHEET
MITCHELL DEWITT ROAD STA 22+00.00 TO STA 27+50.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 6 TOTAL 15
SHEET 122 TOTAL 131

MODEL: 01156_RT101 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:04 AM USER: lstuller
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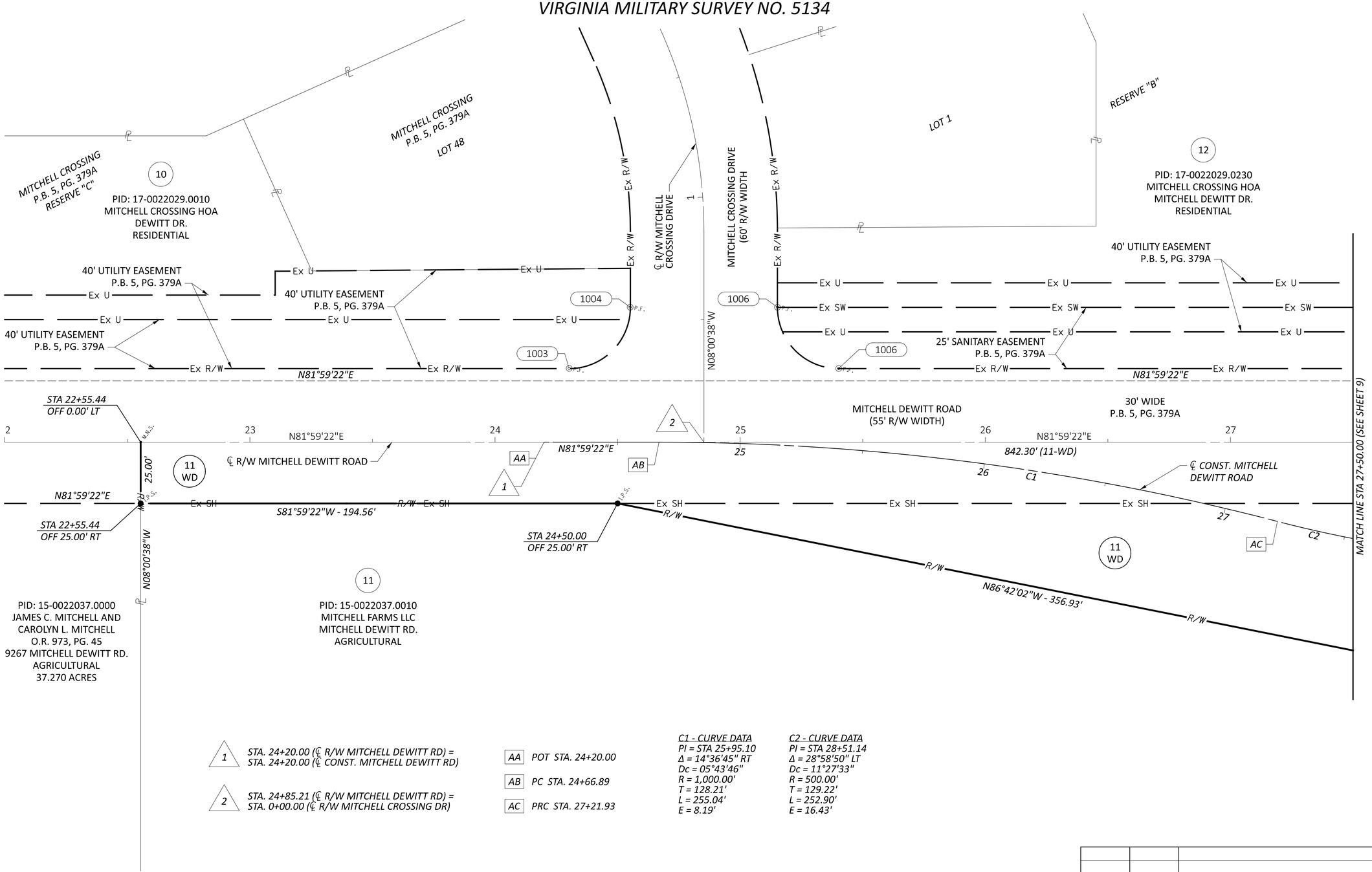
STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



1 STA. 24+20.00 (℄ R/W MITCHELL DEWITT RD) = STA. 24+20.00 (℄ CONST. MITCHELL DEWITT RD)

2 STA. 24+85.21 (℄ R/W MITCHELL DEWITT RD) = STA. 0+00.00 (℄ R/W MITCHELL CROSSING DR)

AA POT STA. 24+20.00

AB PC STA. 24+66.89

AC PRC STA. 27+21.93

C1 - CURVE DATA	C2 - CURVE DATA
PI = STA 25+95.10	PI = STA 28+51.14
Δ = 14°36'45" RT	Δ = 28°58'50" LT
Dc = 05°43'46"	Dc = 11°27'33"
R = 1,000.00'	R = 500.00'
T = 128.21'	T = 129.22'
L = 255.04'	L = 252.90'
E = 8.19'	E = 16.43'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

HORIZONTAL SCALE IN FEET 0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
MITCHELL DEWITT ROAD STA 22+00.00 TO STA 27+50.00

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: JBY/MWM

REVIEWER: MJW 06/02/23

PROJECT ID: 2022.01156

SUBSET: 7 TOTAL: 15

SHEET: 123 TOTAL: 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT102 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:12 AM USER: lstutler
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STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134

13
PID: 17-0022027.0220
UNION COUNTY BOARD
OF COMMISSIONERS
DEDICATED RIGHT-OF-WAY

12
PID: 17-0022029.0230
MITCHELL CROSSING HOA
MITCHELL DEWITT RD.
RESIDENTIAL

PID: 17-0022041.0000
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION
9110 INDUSTRIAL PARKWAY
AGRICULTURAL

14
PID: 17-0011029.0020
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION
INDUSTRIAL PARKWAY
AGRICULTURAL

MATCH LINE STA 1095+75.00 (SEE SHEET 12)
MATCH LINE STA 27+50.00 (SEE SHEET 6)
MATCH LINE STA 33+25.00 (SEE SHEET 10)
MATCH LINE STA 1099+75.00 (SEE SHEET 14)

MITCHELL DEWITT ROAD
(55' R/W WIDTH)
℄ R/W MITCHELL DEWITT ROAD
℄ R/W MITCHELL DEWITT ROAD
℄ CONST. MITCHELL DEWITT ROAD
℄ R/W & CONST. INDUSTRIAL PARKWAY
INDUSTRIAL PARKWAY (VARIABLE R/W WIDTH)
CONST. LIMITS
PROP. DITCH
PROP. LIGHTING
PROP. WATER
PROP. SANITARY
PROP. STORM
CULTIVATED FIELD
EDGE OF CULTIVATED FIELD
GRAVEL
LIMESTONE 2'x3' FIBER
STONE WALL
4" VINYL POSTS W/ MILLERS CROSSING SIGN
METAL T-POST
WHITE DELINEATOR
CONC
TV & FIBER DND
TV & FIBER TBRBO
FIBER TBR
8" PVC SAN
18" PVC SAN
12" PVC SAN FM
12" CMP TBR
15" CMP TBR
18" CMP TBR
6' CHAIN LINK FENCE DND
4" STEEL W/ CONC (TYP) DND
NO ACCESS
6" W DROPS TBRBO
ASPH
Ex U
Ex SH
Ex SW
Ex R/W
R/W
SAN
SAN FM
TBR
TBRBO
DND
N67°37'17"E
N81°59'22"E
N82°20'50"E
S42°22'43"E
S42°21'37"E
1007
1008
1009
1096
1097
1098
1099
1500
1028
15626
15907
15916
15917
AD
AE
C2
C3
WD

3 STA. 30+97.74 (℄ R/W MITCHELL DEWITT RD) =
STA. 1097+59.65 (℄ R/W INDUSTRIAL PARKWAY) =
STA. 31+07.33 (℄ CONST. MITCHELL DEWITT RD)

AD PT STA. 29+74.83
AE PC STA. 32+39.83
A PI STA. 30+97.74
C PI STA. 1097+59.65

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

11
PID: 15-0022037.0010
MITCHELL FARMS LLC
MITCHELL DEWITT RD.
AGRICULTURAL

15
PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL,
TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE
TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER,
TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE
TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)
O.R. 721, PG. 894
O.R. 729, PG. 708
INDUSTRIAL PARKWAY
AGRICULTURAL
70.502 ACRES

REV. BY	DATE	DESCRIPTION
MWM	6/2/23	LABELED ADJUSTED PROP. UTILITIES
MWM	6/2/23	LABELED ADJUSTED CONST. LIMITS
DATE COMPLETED	05/17/2023	

HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY TOPO SHEET
MITCHELL DEWITT ROAD STA 27+50.00 TO STA 33+25.00
INDUSTRIAL PARKWAY STA 1095+75.00 TO STA 1099+75.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 8 TOTAL 15
SHEET 124 TOTAL 131

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

AD PT STA. 29+74.83
AE PC STA. 32+39.83
A PI STA. 30+97.74
C PI STA. 1097+59.65

3 STA. 30+97.74 (℄ R/W MITCHELL DEWITT RD) = STA. 1097+59.65 (℄ R/W INDUSTRIAL PARKWAY) = STA. 31+07.33 (℄ CONST. MITCHELL DEWITT RD)

12
PID: 17-0022029.0230
MITCHELL CROSSING HOA
MITCHELL DEWITT RD.
RESIDENTIAL

DRAINAGE/UTILITY EASEMENT P.B. 5, PG. 379A

25' WATER EASEMENT P.B. 5, PG. 379A

13
PID: 17-0022027.0220
UNION COUNTY BOARD OF COMMISSIONERS
MITCHELL CROSSING DR.
DEDICATED RIGHT-OF-WAY

PID: 17-0022041.0000
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION
9110 INDUSTRIAL PARKWAY
AGRICULTURAL

14
PID: 17-0011029.0020
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION
INDUSTRIAL PARKWAY
AGRICULTURAL

14 WD

11
PID: 15-0022037.0010
MITCHELL FARMS LLC
MITCHELL DEWITT RD.
AGRICULTURAL

11 WD

15
PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL, TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER, TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)
O.R. 721, PG. 894
O.R. 729, PG. 708
INDUSTRIAL PARKWAY
AGRICULTURAL
70.502 ACRES

15 WD

MATCH LINE STA 27+50.00 (SEE SHEET 7)
MATCH LINE STA 33+25.00 (SEE SHEET 11)
MATCH LINE STA 1095+75.00 (SEE SHEET 13)
MATCH LINE STA 1099+75.00 (SEE SHEET 15)

℄ R/W MITCHELL DEWITT ROAD
℄ CONST. MITCHELL DEWITT ROAD
MITCHELL DEWITT ROAD (55' R/W WIDTH)
INDUSTRIAL PARKWAY (VARIABLE R/W WIDTH)
℄ R/W & CONST. INDUSTRIAL PARKWAY

N86°42'02"W - 356.93'
S81°59'22"W - 200.00'
N69°58'08"W - 160.32'
N42°21'37"W - 300.00'
N81°59'22"E
N82°20'50"E
N67°37'17"E
N42°22'43"W - 318.00'
N82°33'03"E - 168.64'
S83°43'28"E - 257.57'
S82°20'50"W - 450.00'
S36°32'55"W - 80.70'
S42°21'37"E - 75.00'
N19°48'19"E
N42°22'43"W - 1095+89.11
S42°22'43"E - 459.65' (14-WD)
842.60' (11-WD)
652.26' (14-WD & 15-WD)
465.35' (11-WD & 15-WD)

STA 28+00.00 OFF 95.00' RT
STA 29+16.65 OFF 30.00' LT
STA 30+00.00 OFF 95.00' RT
STA 1095+89.11 OFF 50.00' RT
STA 1096+18.00 OFF 60.00' LT
STA 1099+25.00 OFF 60.00' RT
STA 1099+15.00 OFF 70.00' LT
STA 32+35.00 OFF 150.00' LT
STA 33+00.00 OFF 30.00' RT

E1: 20' WATER EASEMENT P.B. 5, PG. 379A
E2: 25' SANITARY EASEMENT P.B. 5, PG. 379A
E3: 30' UTILITY EASEMENT P.B. 5, PG. 379A
E4: 20' WATER AND UTILITY EASEMENT O.R. 131, PG. 502
E5: 20'X40' GAS EASEMENT O.R. 626, PG. 796
E6: 20'X20' GAS REGULATORY EASEMENT O.R. 626, PG. 796

20' GAS EASEMENT O.R. 619, PG. 755
20' WATER AND UTILITY EASEMENT O.R. 128, PG. 25
20' SANITARY EASEMENT O.R. 479, PG. 351
20' GAS EASEMENT O.R. 626, PG. 802
SANITARY EASEMENT I.N. 201511130009327

REV. BY	DATE	DESCRIPTION
DATE COMPLETED	05/17/2023	

HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
MITCHELL DEWITT ROAD STA 27+50.00 TO 33+25.00
INDUSTRIAL PARKWAY STA 1095+75.00 TO 1099+75.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 9 | TOTAL 15
SHEET 125 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB102 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:17 AM USER: lstuller
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT103 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:21 AM USER: lstutler
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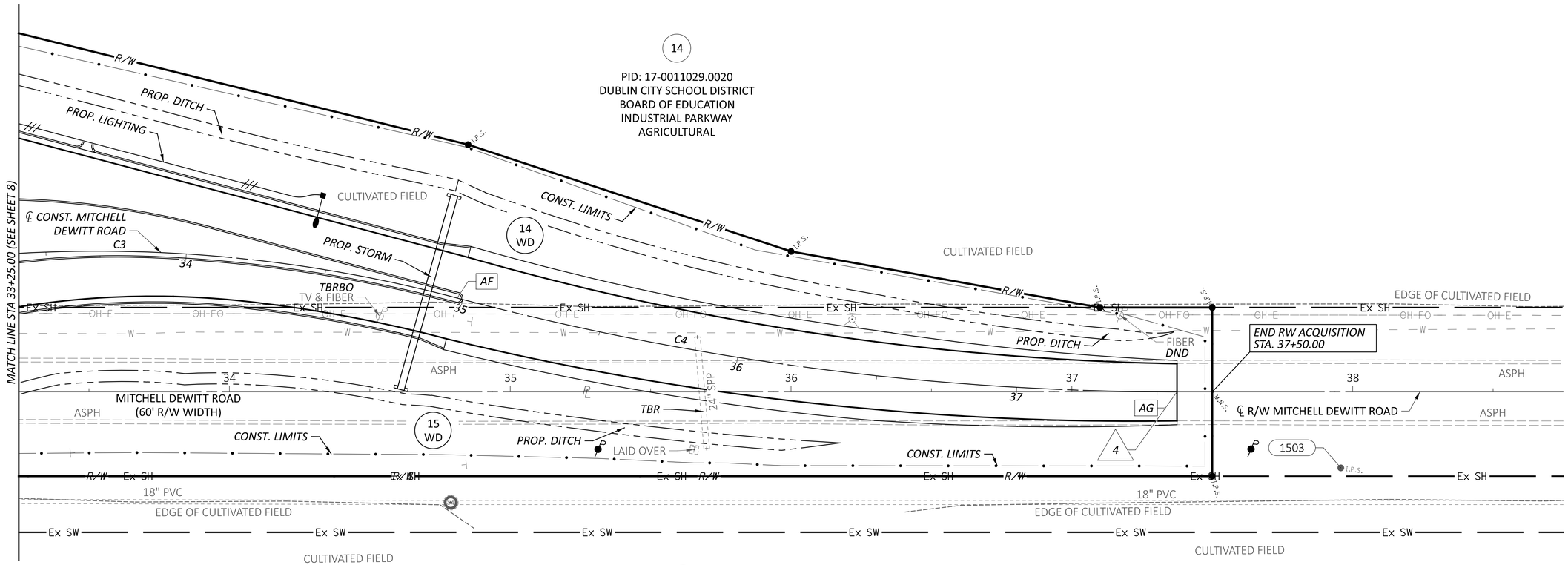
STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



15

PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL,
TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE
TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER,
TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE
TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)
INDUSTRIAL PARKWAY
AGRICULTURAL

AF *PRC STA. 34+97.93*

AG *POT STA. 37+57.12*

4 *STA. 37+37.43 (℄ R/W MITCHELL DEWITT RD) =*
STA. 37+57.12 (℄ CONST. MITCHELL DEWITT RD)

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

C4 - CURVE DATA
PI = STA 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000.00'
T = 130.33'
L = 259.19'
E = 8.46'

HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY TOPO SHEET
MITCHELL DEWITT ROAD STA 33+25.00 TO STA 38+75.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
STRUCTUREPOINT LLC
MEMBER

DESIGNER MWM/JBY
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 10 TOTAL 15
SHEET 126 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB103 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:26 AM USER: lstutler
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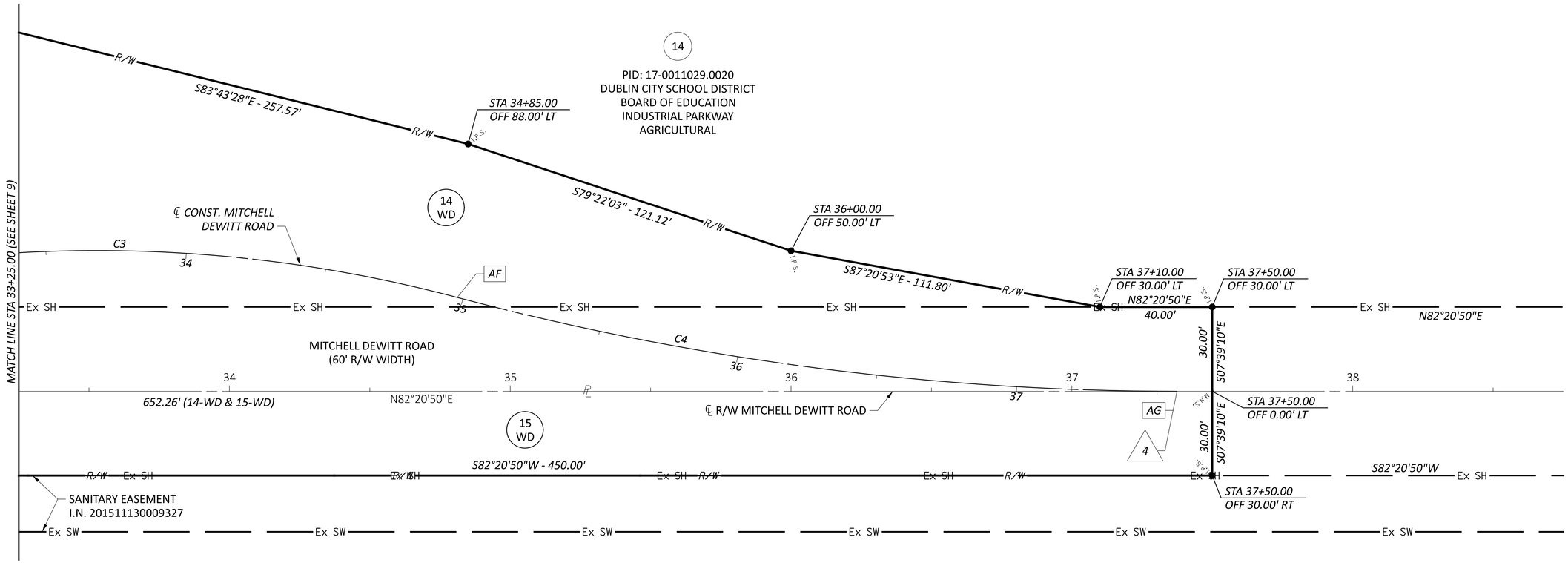
STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134

HORIZONTAL SCALE IN FEET
0 10 20 40



AF PRC STA. 34+97.93

AG POT STA. 37+57.12

4 STA. 37+37.43 (℄ R/W MITCHELL DEWITT RD) = STA. 37+57.12 (℄ CONST. MITCHELL DEWITT RD)

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

C4 - CURVE DATA
PI = STA 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000.00'
T = 130.33'
L = 259.19'
E = 8.46'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

RIGHT-OF-WAY BOUNDARY SHEET
MITCHELL DEWITT ROAD STA 33+25.00 TO STA 38+75.00

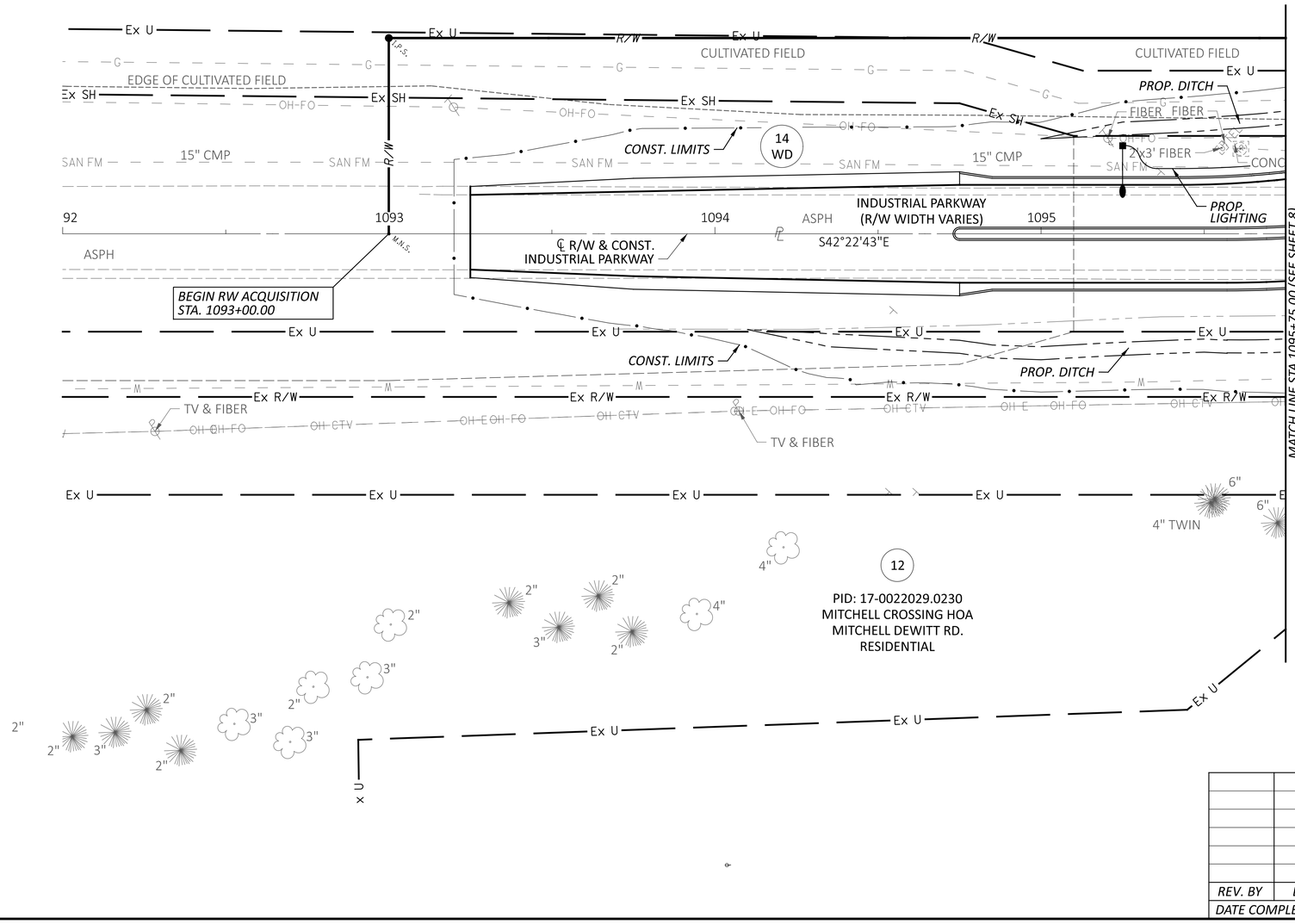
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 11 TOTAL 15
SHEET 127 TOTAL 131

STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134

14

PID: 17-0022041.000
DUBLIN CITY SCHOOL DISTRICT
BOARD OF EDUCATION
9110 INDUSTRIAL PARKWAY
AGRICULTURAL



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY TOPO SHEET
INDUSTRIAL PARKWAY STA 1092+00.00 TO STA 1095+75.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT201 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:29 AM USER: lstutler
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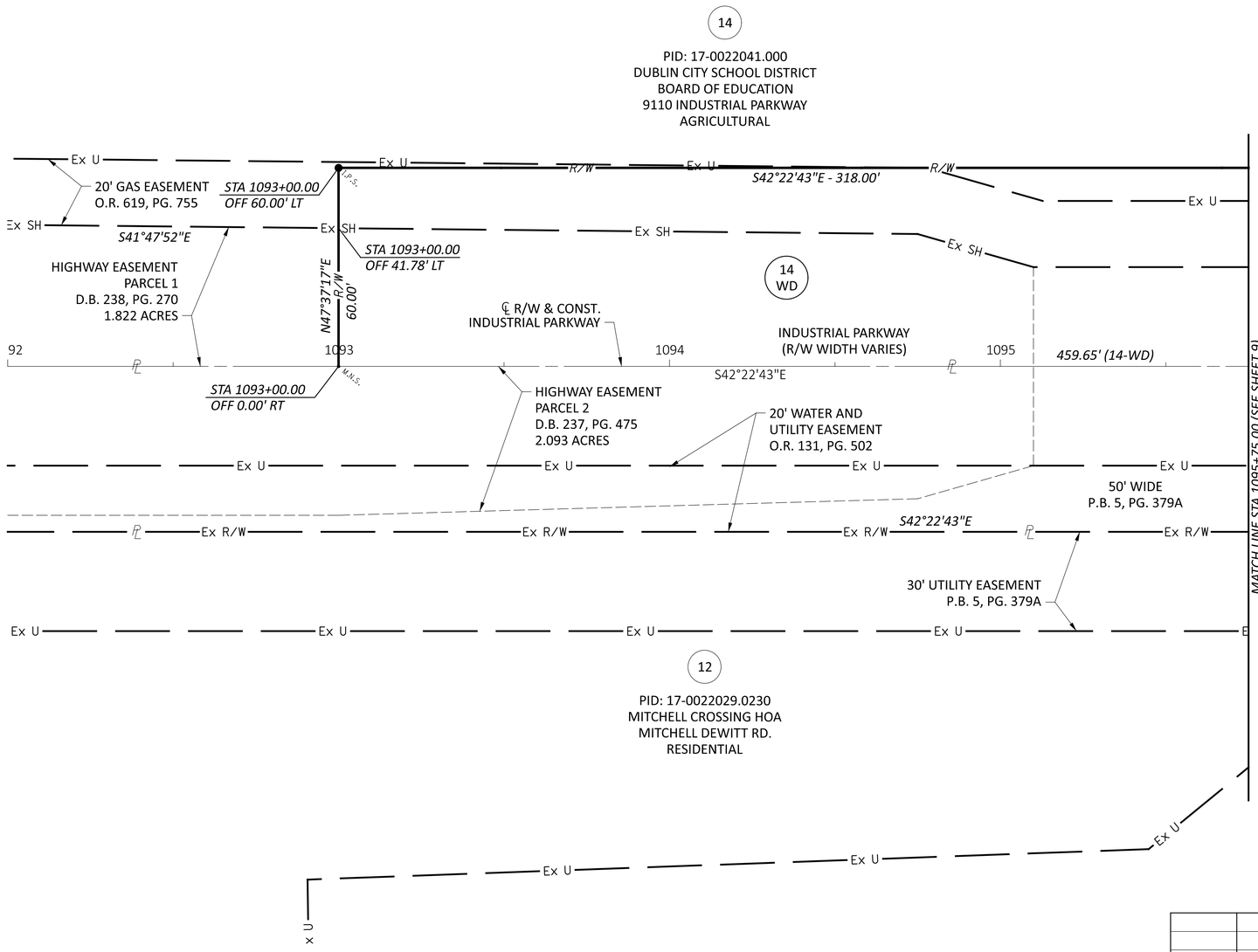
REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	JBY/MWM
REVIEWER	MJW 06/02/23
PROJECT ID	2022.01156
SUBSET	12
TOTAL	15
SHEET	128
TOTAL	131

STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
INDUSTRIAL PARKWAY STA 1092+00.00 TO STA 1095+75.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB201 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:34 AM USER: lstutler
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REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
MANNESS STRUCTUREPOINT INC.

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 13 TOTAL 15
SHEET 129 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT202 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:37 AM USER: lstutler
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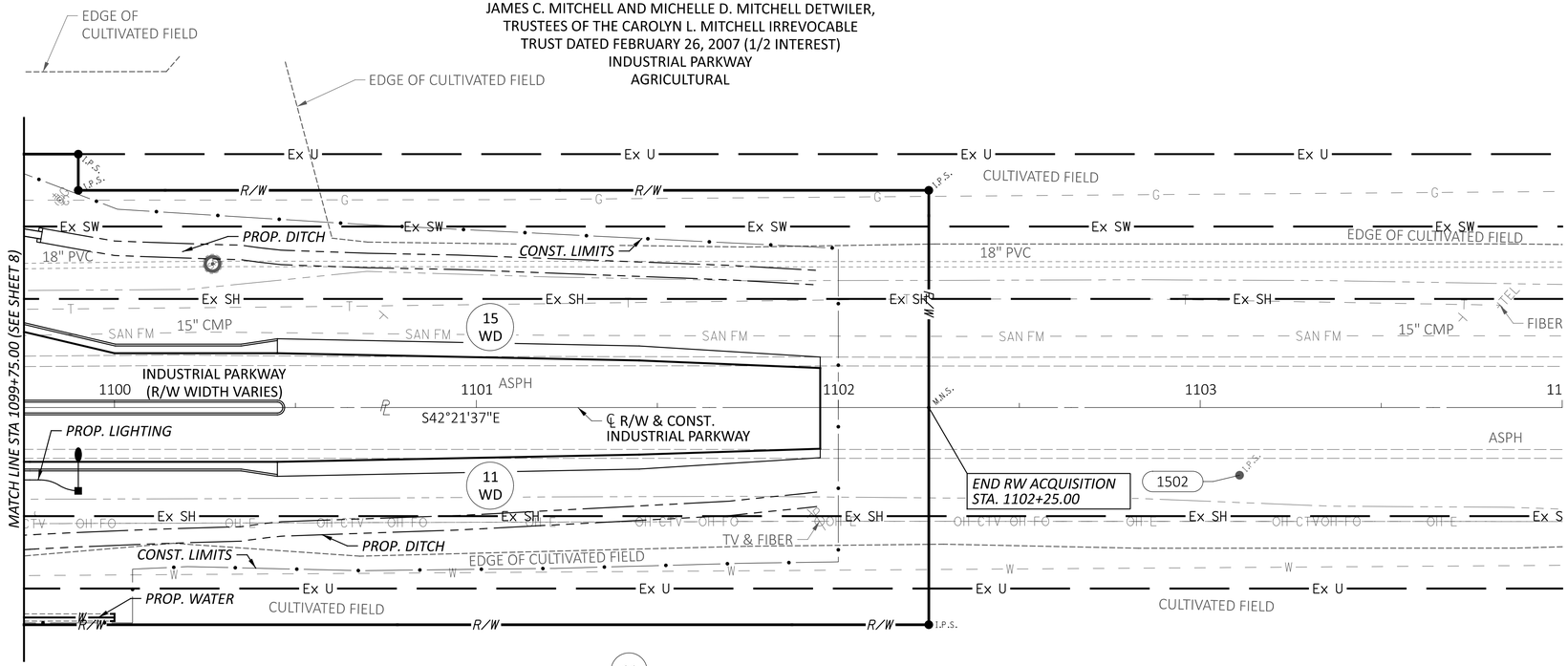
STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134

HORIZONTAL SCALE IN FEET
0 10 20 40

15

PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL,
TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE
TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER,
TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE
TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)
INDUSTRIAL PARKWAY
AGRICULTURAL



11

PID: 15-0022037.0010
MITCHELL FARMS LLC
MITCHELL DEWITT RD.
AGRICULTURAL

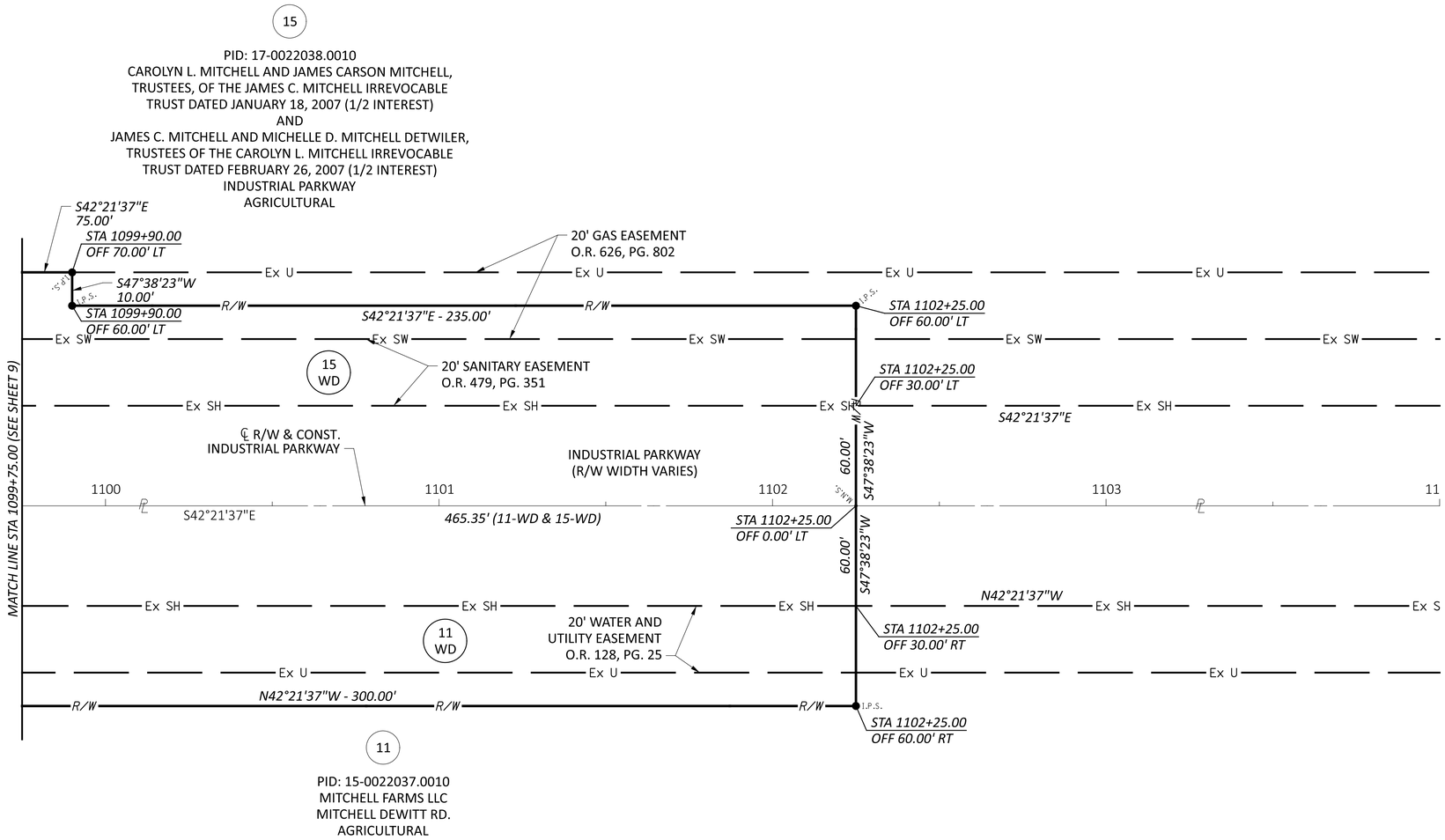
RIGHT OF WAY TOPO SHEET
INDUSTRIAL PARKWAY STA 1099+75.00 TO STA 1104+00.00

REV. BY	DATE	DESCRIPTION
MWM	6/2/23	ADDED PROP. WATER LABEL
MWM	5/30/23	CORRECTED CL OF R/W LABEL
DATE COMPLETED	05/17/2023	

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 14 TOTAL 15
SHEET 130 TOTAL 131

STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
INDUSTRIAL PARKWAY STA 1099+75.00 TO STA 1104+00.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB202 Sheet PAPERSIZE: 34x22 (in.) DATE: 6/23/2023 TIME: 11:40:40 AM USER: lstutler
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REV. BY	DATE	DESCRIPTION
MWM	5/30/23	CORRECTED CL OF R/W LABEL

DATE COMPLETED 05/17/2023

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 15 TOTAL 15
SHEET 131 TOTAL 131