

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

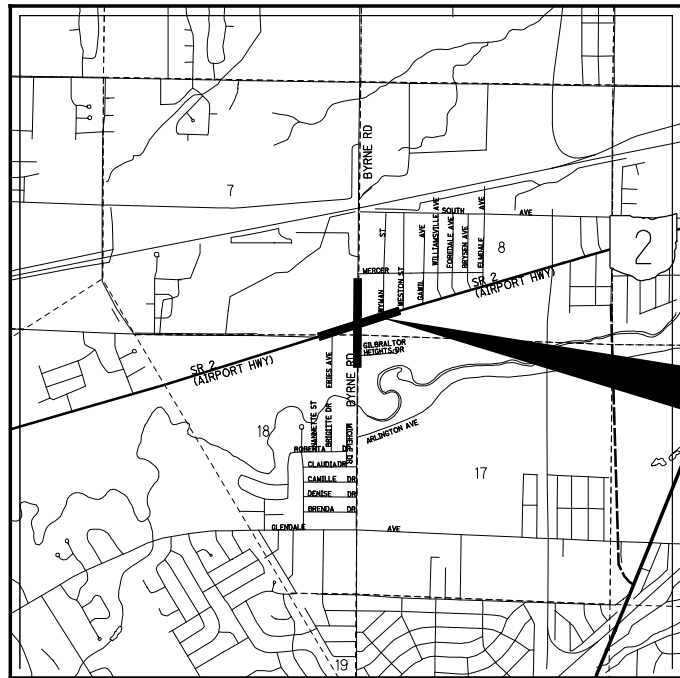
LUC-002-13.77

PART 1

LUCAS COUNTY

TOLEDO, OHIO

FOR PART 2, SEE LUC-2-9.67



LOCATION MAP

LATITUDE: 41°37'27.45" LONGITUDE: 83°37'33.14"



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

DESIGN DESIGNATION	SR 2	BYRNE RD
CURRENT ADT (2023)	20740	34590
DESIGN YEAR ADT (2043)	20740	34590
DESIGN HOURLY VOLUME (2043)	2070	3460
DIRECTIONAL DISTRIBUTION	53%	49%
TRUCKS (24 HOUR B&C)	4%	3%
DESIGN SPEED	45 MPH	45 MPH
LEGAL SPEED	45 MPH (EB)	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	40 MPH (WB)	
PRINCIPAL ARTERIAL		
NHS PROJECT	SR-2	

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

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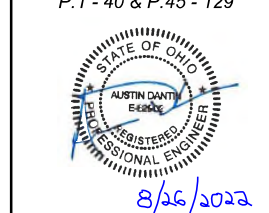
ENGINEER'S SEAL:
P.41 - 44 & P.130 - 153



ENGINEER'S SEAL:
P.1 - 40 & P.45 - 129



ENGINEER'S SEAL:
P.1 - 40 & P.45 - 129



PLAN PREPARED BY:
TETRA TECH
420 Madison Ave., Suite 1001
Toledo, Ohio 43604
Phone: (419) 255-9500



FEDERAL PROJECT NUMBER

E191110

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVEMENT OF THE INTERSECTION OF S.R. 2 (AIRPORT HIGHWAY) AND BYRNE ROAD INCLUDING RESURFACING AND WIDENING, ADDING RIGHT TURN LANES, ADDING DOUBLE LEFT TURN LANES, INSTALLING NEW TRAFFIC SIGNALS AND RAISED CONCRETE MEDIAN ISLANDS. APPROXIMATELY 0.34 MILES OF SR-2 AND 0.38 MILES OF BYRNE RD WILL BE PART OF THESE IMPROVEMENTS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	3.01 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	3.26 ACRES

2019 SPECIFICATIONS

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

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

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



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

PARTS 1 AND 2

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.1	1/21/22	HL-30.11	1/15/21	TC-41.41	7/19/19	800-2019 SEE PROPOSAL	CITY OF TOLEDO CONST. STDS.
BP-3.1	1/21/22	HL-40.10	7/17/20	TC-42.10	10/18/13		
BP-4.1	7/19/13	HL-60.31	1/17/20	TC-42.20	10/18/13	805 7/16/10 2	10/21 67 1/21
BP-5.1	7/15/22			TC-52.10	10/18/13	809 7/15/22 15	10/21 69 1/21
BP-7.1	1/21/22	MT-95.31	7/19/19	TC-52.20	1/15/21	821 4/20/12 42	1/19 70 1/21
CB-3A	7/16/21	MT-101.90	7/17/20	TC-65.11	7/15/22	828 1/19/18 43	1/18
		MT-102.20	7/19/19	TC-65.11	7/15/22	832 10/19/18 44	1/19
		MT-103.10	7/17/20	TC-71.10	7/15/22	895 4/18/14 54	10/21
DM-1.1	7/17/20	TC-81.22	7/15/22	TC-81.22	7/15/22	903 7/20/12 55	1/21
DM-1.2	7/16/21	TC-83.10	1/17/20	TC-83.10	1/17/20	909 7/15/22 56	1/21
DM-4.4	1/15/16	MT-110.10	7/19/13	TC-85.10	4/17/20	921 4/20/12 57	1/19
				TC-85.20	7/20/18	928 1/19/18 58	3/14
MH-3	7/16/21	TC-21.21	7/15/22			995 7/17/15 63	1/21
		TC-22.20	1/17/14				64 1/21
RM-1.1	1/15/21	TC-41.30	10/18/13				65 1/21
RM-3.1	7/20/18	TC-41.40	10/18/13				66 1/21

APPROVED: *Pat McGilley, PE*
DATE 8/29/2022 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY



DESIGNER
AMD

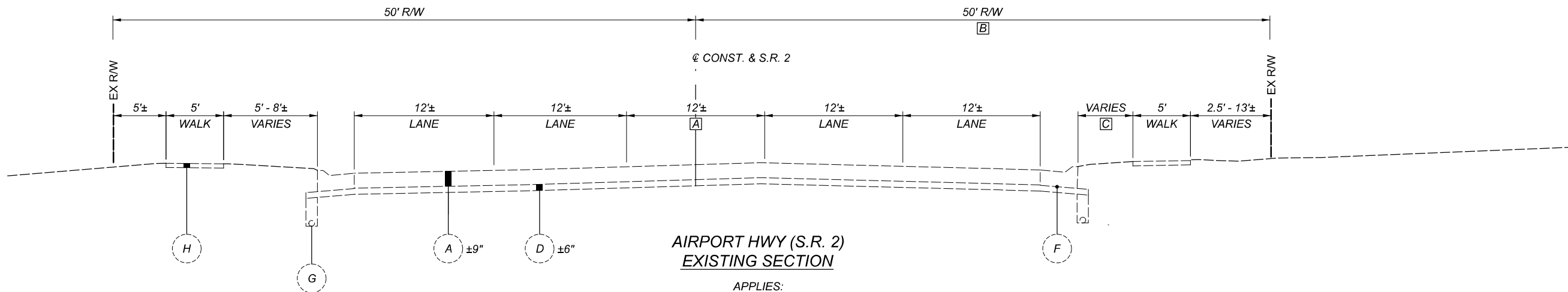
REVIEWER
AJL 08/25/22

PROJECT ID
108465

SHEET TOTAL
P.1 181

LUC-002-13.77

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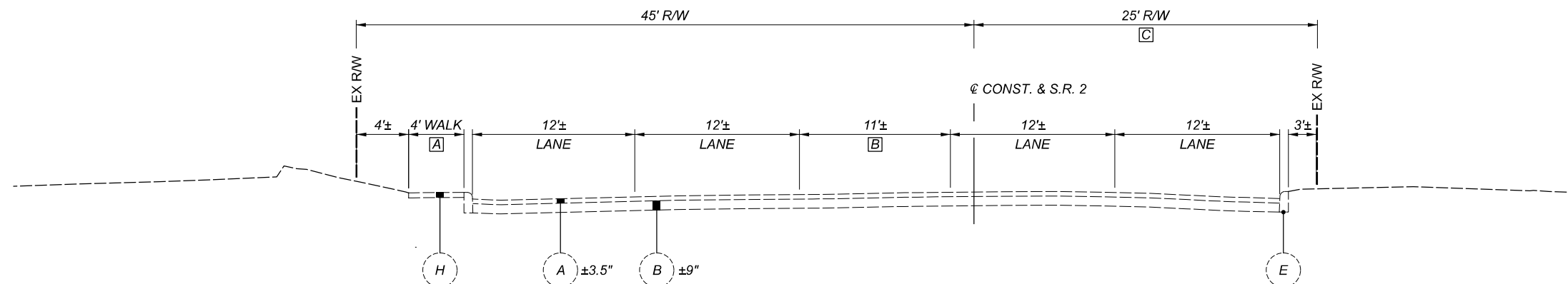
**AIRPORT HWY (S.R. 2)
EXISTING SECTION**

APPLIES:
STA. 719+05.00 TO STA. 726+80.55

A TWLTL FROM STA. 719+05.00 TO 722+68.98. LTL FROM STA. 722+68.98 TO STA. 726+80.50

B 45' FROM STA. 720+90.61 TO STA. 726+80.55

C VARIES FROM 5' AT STA. 725+72.58 TO 0' AT STA. 725+92.64



**AIRPORT HWY (S.R. 2)
EXISTING SECTION**

APPLIES:
STA. 729+31.36 TO STA. 735+59.13

A FROM STA. 729+31.36 TO STA. 733+35.90

B VARIES FROM 11' AT STA. 731+42.15 TO 0' AT STA. 735+59.13

C 30' FROM STA. 733+26.80 TO STA. 735+59.13

NOTE:
THE EXISTING PAVEMENT BUILDUP AT THE AIRPORT HWY AND BYRNE RD INTERSECTION IS UNKNOWN. ALL WORK REQUIRED TO REMOVE THE EXISTING PAVEMENT, AND ALL OTHER ENCOUNTERED MATERIALS TO MEET GRADE, SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 202 - PAVEMENT REMOVED.

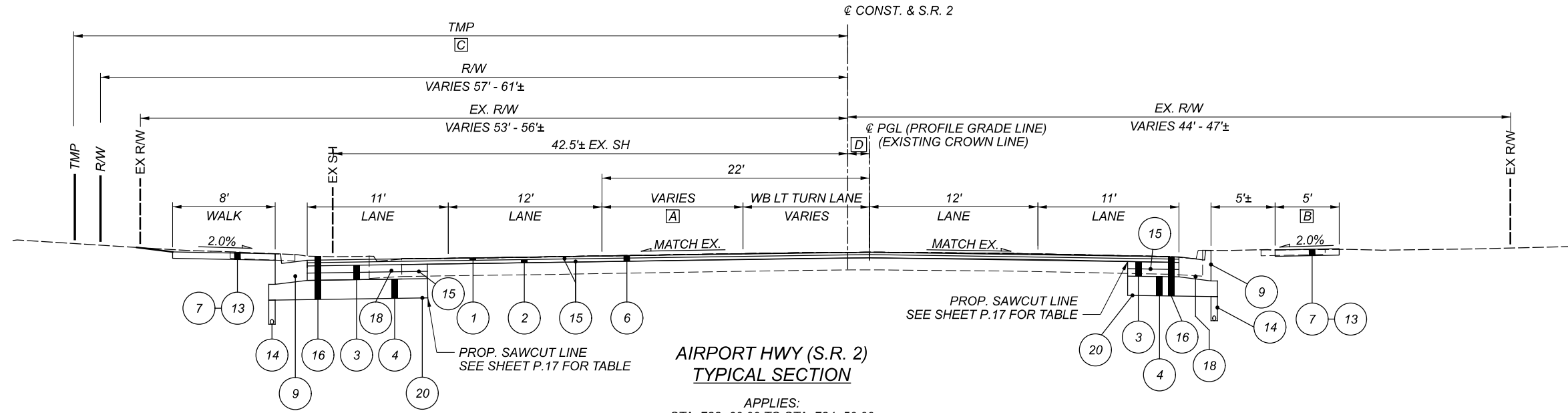
LEGEND

- | | | | |
|--|---|---|----------------------------------|
| 1 ITEM - 442 - ASPHALT CONCRETE, SURFACE COURSE, 12.5mm, TYPE A (446), 1 1/2" THICK | 10 ITEM 609 - CONCRETE MEDIAN (PER SCD RM-3.1) | 19 ITEM 202 - PAVEMENT REMOVED | A EX. ASPHALT CONCRETE |
| 2 ITEM - 442 - ASPHALT CONCRETE, INTERMEDIATE COURSE, 12.5mm, TYPE A (446), 2" THICK | 11 ITEM 653 - 4" TOPSOIL FURNISHED AND PLACED | 20 ITEM 204 - SUBGRADE COMPACTION | B EX. CONCRETE |
| 3 ITEM 302 - ASPHALT CONCRETE BASE, PG64-22, (449), 9" THICK
(PLACE IN 2 EQUAL LIFTS) | 12 ITEM 659 - SEEDING AND MULCHING, WATER, AND COMMERCIAL FERTILIZER | 21 ITEM 204 - GEOGRID, AS PER PLAN | C EX. 5" BRICK |
| 4 ITEM 304 - AGGREGATE BASE - 12" THICK | 13 ITEM 202 - WALK REMOVED | 22 ITEM 203 - GRANULAR MATERIAL, TYPE C | D EX. AGGREGATE BASE |
| 5 ITEM 202 - CURB REMOVED | 14 ITEM 605 - 6" SHALLOW PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, 707.31 | 23 ITEM 204 - EXCAVATION OF SUBGRADE | E EX. CURB |
| 6 ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 3 1/2" THICK | 15 ITEM 407 - NON-TRACKING TACK COAT (0.055 GAL. PER SQ. YD.) & (0.085 GAL. PER SQ. YD. FOR MILLED SURFACE) | 24 ITEM 204 - GEOTEXTILE FABRIC | F EX. CURB AND GUTTER |
| 7 ITEM 608 - CONCRETE WALK, 4" THICK | 16 ITEM 203 - EXCAVATION | | G EX. 6" SHALLOW PIPE UNDERDRAIN |
| 8 ITEM 609 - CURB, TYPE 6 | 17 ITEM 203 - EMBANKMENT | | H EX. 4" CONCRETE WALK |
| 9 ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2 (T=12.5") | 18 ITEM 202 - COMBINATION CURB AND GUTTER REMOVED | | I EX. GUARDRAIL |

TYPICAL SECTIONS

DESIGN AGENCY

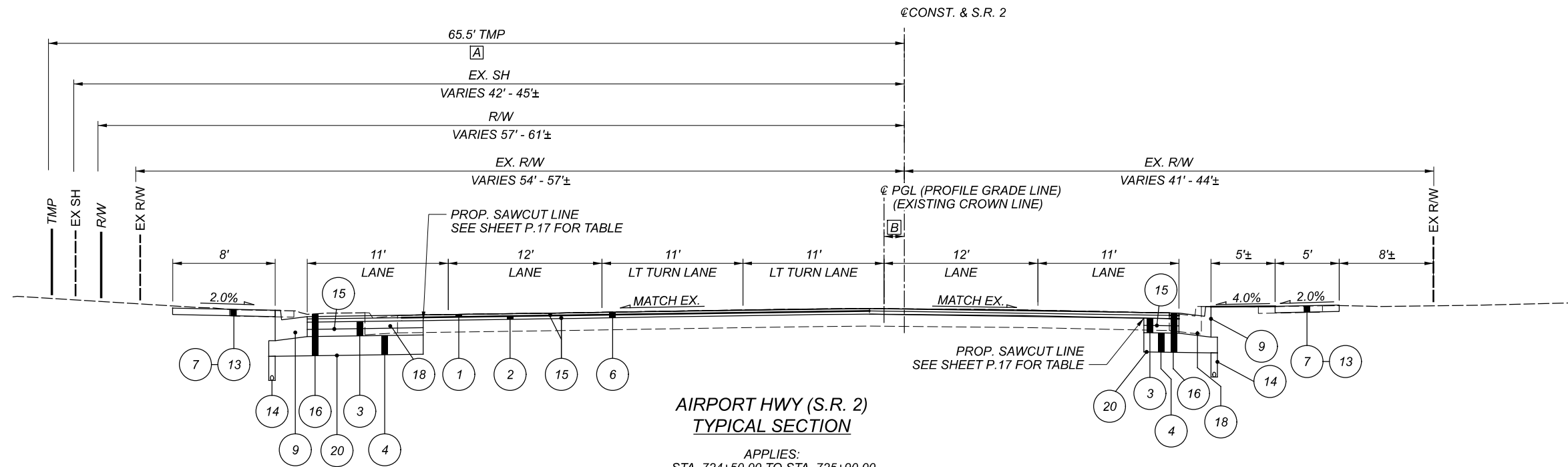
 DESIGNER
 AMD
 REVIEWER
 AJL 11/14/22
 PROJECT ID
 108465
 SHEET TOTAL
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**AIRPORT HWY (S.R. 2)
TYPICAL SECTION**

APPLIES:
STA. 722+60.00 TO STA. 724+50.00

- [A] STRIPED SPLITTER FROM STA. 722+60.00 TO STA. 723+63.58
VARIES 11' AT STA. 722+63.59 TO 11' AT STA. 723+63.58
- [B] APPLIES FROM STA. 722+66.01 TO STA. 724+50.00
- [C] VARIES FROM 57' AT STA. 722+38.00 TO 61' AT STA. 724+46.10
- [D] VARIES FROM 3.71' AT STA. 722+60.00 TO -0.70' (LEFT OF @ CONST.) AT STA. 724+29.54 TO -1.01' AT STA. 724+50.00



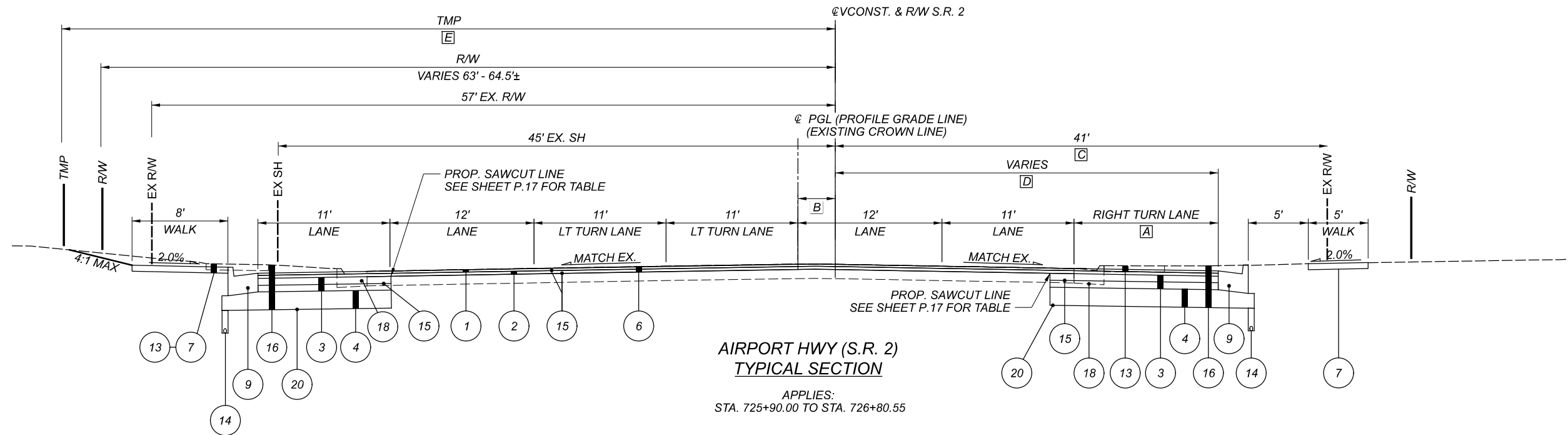
**AIRPORT HWY (S.R. 2)
TYPICAL SECTION**

APPLIES:
STA. 724+50.00 TO STA. 725+90.00

- [A] APPLIES FROM STA. 725+50.00 TO STA. 725+90.00
- [B] VARIES FROM 1.01' AT STA. 724+50.00 TO 2.34' AT STA. 725+38.06 TO 2.42' AT STA. 725+90.00

NOTES:
- SEE SHEET 8 FOR LEGEND.
- CROSS SLOPE OF WIDENED PAVEMENT WILL MATCH CROSS SLOPE OF RESURFACED PAVEMENT.

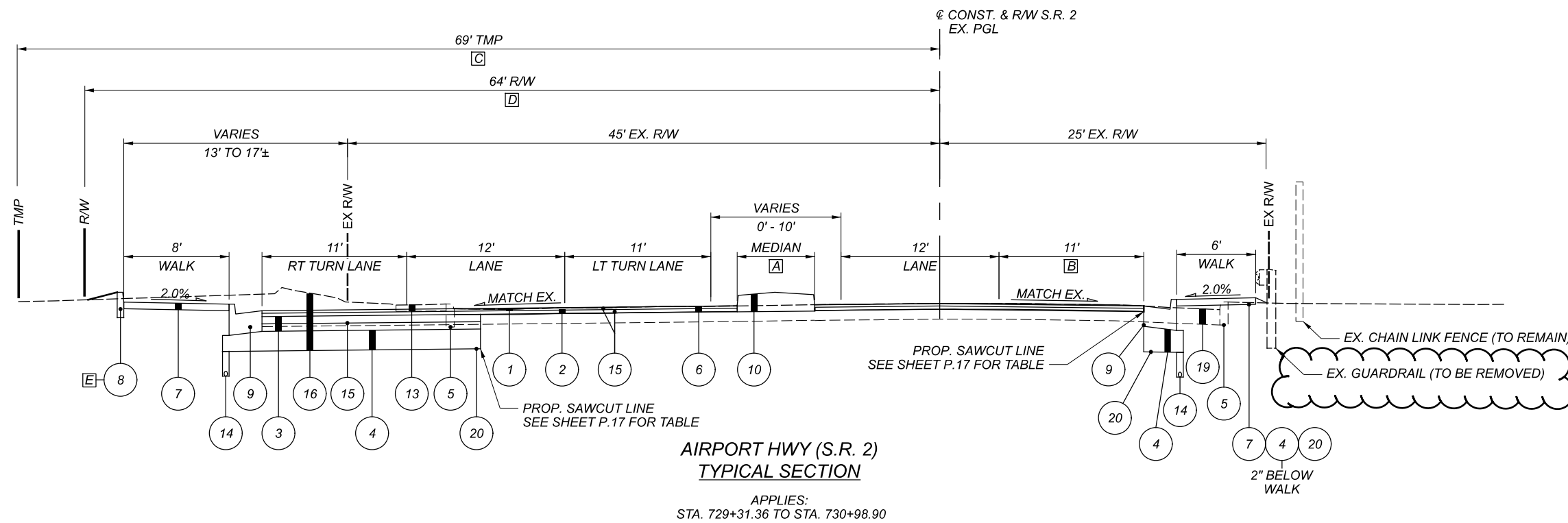




**AIRPORT HWY (S.R. 2)
TYPICAL SECTION**

APPLIES:
STA. 725+90.00 TO STA. 726+80.55

- [A] VARIES FROM 0' AT STA. 725+90.00 TO 12' AT STA. 726+40.24
- [B] VARIES FROM 2.42' AT STA. 725+90.00 TO 2.61' AT STA. 726+80.55
- [C] 35' FROM STA. 721+66.05 TO STA. 726+80.55
- [D] VARIES FROM 21.8' AT STA. 725+90.00 TO 31.8' AT STA. 726+40.24
- [E] 65.5' FROM STA. 725+50.00 TO STA. 726+40.00,
VARIES FROM 65.5' AT STA. 726+40.00 TO 77' AT STA. 726+80.55



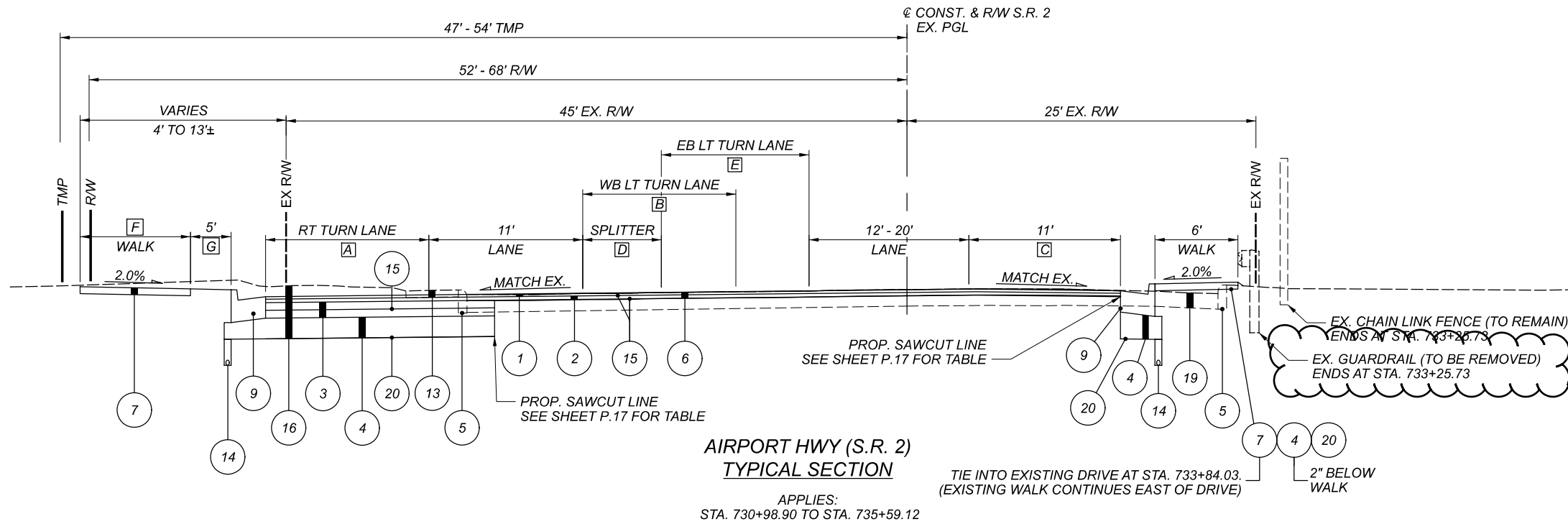
**AIRPORT HWY (S.R. 2)
TYPICAL SECTION**

APPLIES:
STA. 729+31.36 TO STA. 730+98.90

- [A] VARIES FROM 6' AT STA. 729+31.36 TO 3.4' AT STA. 730+62.85
- [B] VARIES FROM 11' AT STA. 730+62.79 TO 9.5' AT STA. 730+98.90
- [C] VARIES FROM 75.4' AT STA. 729+31.36 TO 69' AT STA. 729+84.79
- [D] VARIES FROM 70' AT STA. 729+31.36 TO 64' AT STA. 729+55.00
- [E] APPLIES FROM STA. 729+31.36 TO STA. 730+82.15
TIE INTO EX. CURB

NOTES:
- SEE SHEET 8 FOR LEGEND.
- CROSS SLOPE OF WIDENED PAVEMENT WILL MATCH
CROSS SLOPE OF RESURFACED PAVEMENT.

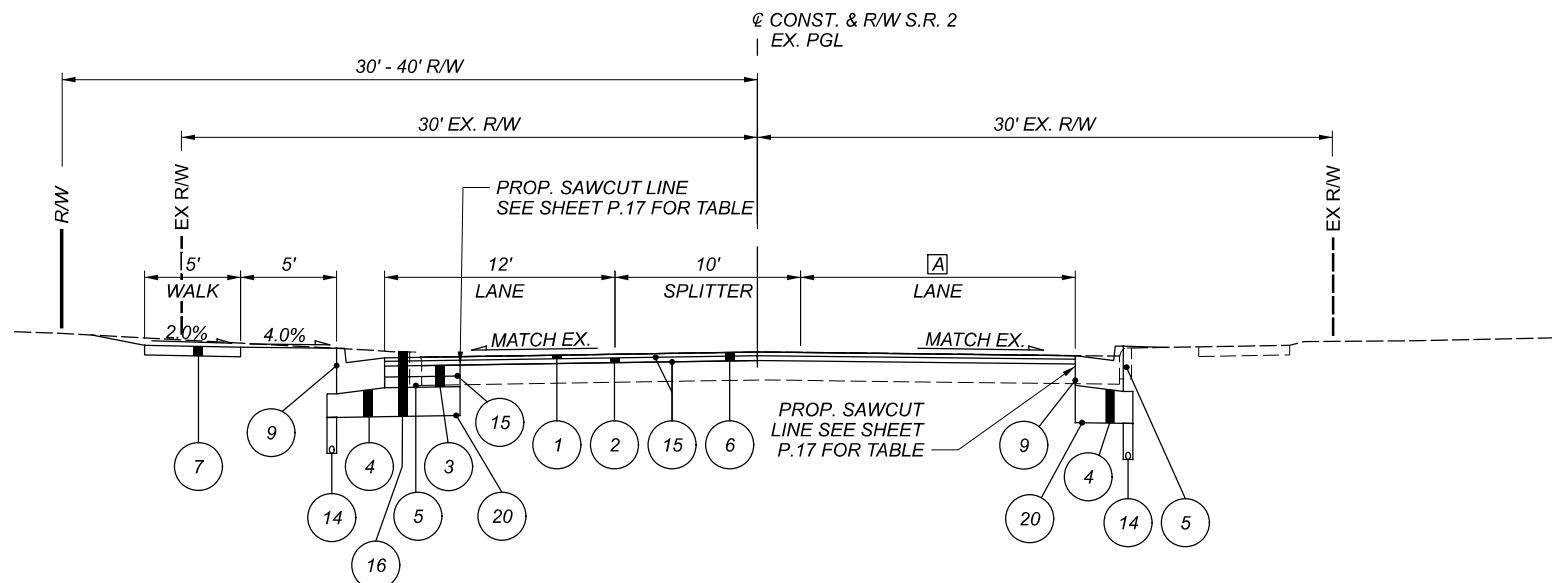




**AIRPORT HWY (S.R. 2)
TYPICAL SECTION**

APPLIES:
STA. 730+98.90 TO STA. 735+59.12

- [A] VARIES FROM 11' AT STA. 731+36.95 TO 0' AT STA. 731+86.95
- [B] APPLIES FROM STA. 730+98.90 TO STA 731+52.80
- [C] VARIES FROM 9.5' AT STA. 730+98.90 TO 0' AT STA. 733+28.35
- [D] VARIES FROM 0' AT STA. 731+21.89 TO 5.4' AT STA. 731+52.80 AND 5.4' AT STA. 731+52.80 TO 0' AT STA. 733+30.71. 10' FROM STA. 733+95.67 TO STA. 735+59.12.
- [E] APPLIES FROM STA. 731+49.93 TO STA. 733+30.61
- [F] VARIES FROM 8' AT STA. 731+37.31 TO 10.0' AT STA. 731+87.31. TREE LAWN BEGINS AT STA. 731+87.31 WITH 5' SIDEWALK
- [G] APPLIES FROM STA. 731+87.31 TO STA. 733+34.35



**AIRPORT HWY (S.R. 2)
TYPICAL SECTION**

APPLIES:
STA. 735+59.12 TO STA. 736+50.00

- [A] VARIES FROM 14.0' AT STA. 735+59.12 TO 10.6' AT STA. 736+50.00

NOTES:
- SEE SHEET 8 FOR LEGEND.
- CROSS SLOPE OF WIDENED PAVEMENT WILL MATCH CROSS SLOPE OF RESURFACED PAVEMENT.

TYPICAL SECTIONS

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

AJL 11/14/22

PROJECT ID

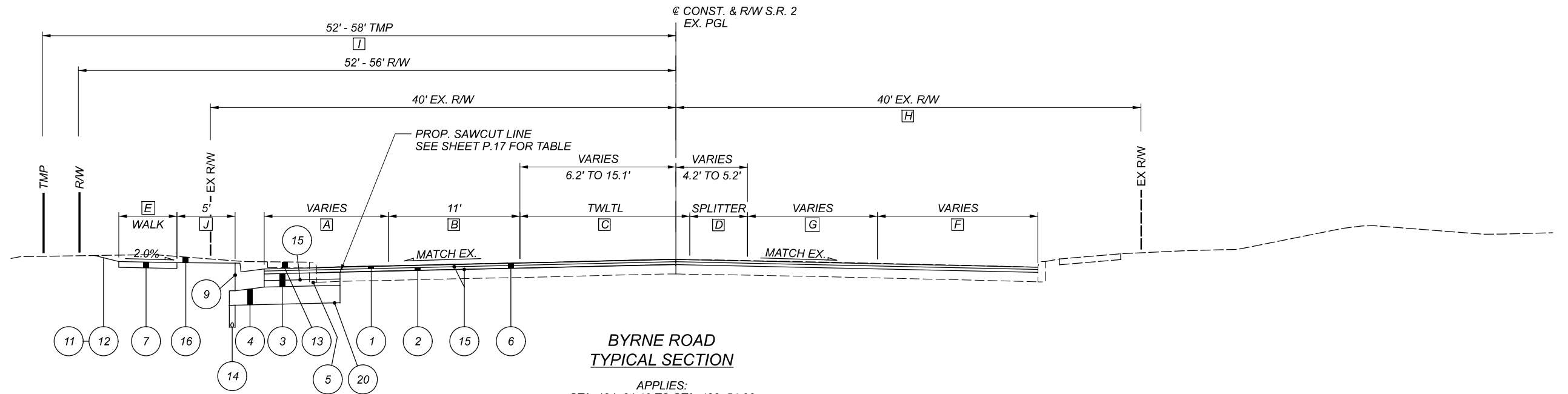
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SHEET TOTAL

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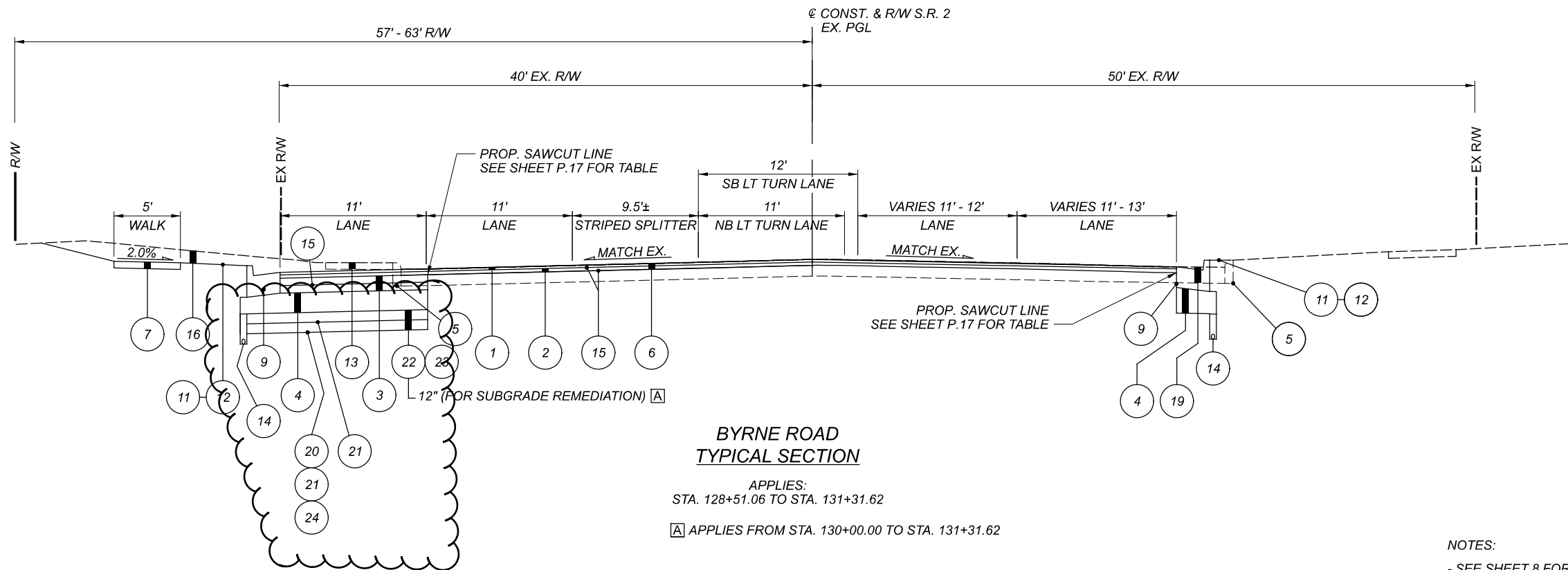
- [A] VARIES FROM 10.5' AT STA. 124+21.10 TO 11' AT STA. 128+51.06
- [B] VARIES FROM 12' AT STA. 124+21.10 TO 11' AT STA. 128+51.06
- [C] VARIES FROM 10' AT STA. 124+21.10 TO 14' AT STA. 125+61.22
RETAINS 14' FROM STA. 125+61.22 TO STA. 128+51.06
- [D] VARIES FROM 4.2' AT STA. 125+61.22 TO 6.3' AT STA. 128+51.06

BYRNE ROAD
TYPICAL SECTION

APPLIES:
STA. 124+21.10 TO STA. 128+51.06

- [E] VARIES FROM 6.0' AT STA. 127+07.32 TO 5.0' AT STA. 127+32.32
- [F] VARIES FROM 14' AT STA. 124+21.00 TO 13' AT STA. 128+51.06
- [G] VARIES FROM 13.5' AT STA. 124+21.00 TO 12' AT STA. 128+51.06
- [H] 50' FROM STA 125+54.36 TO STA. 128+51.06
- [I] APPLIES FROM STA. 124+21.00 TO STA. 126+30.35
AND STA. 127+63.61 TO 128+30.11

- [J] VARIES FROM 0' AT STA. 127+07.32 TO 5.0' AT STA. 127+32.32.
5.0' WIDTH APPLIES FROM STA. 127+32.32 TO STA. 128+51.06.



BYRNE ROAD
TYPICAL SECTION

APPLIES:
STA. 128+51.06 TO STA. 131+31.62

- [A] APPLIES FROM STA. 130+00.00 TO STA. 131+31.62

NOTES:
 - SEE SHEET 8 FOR LEGEND.
 - CROSS SLOPE OF WIDENED PAVEMENT WILL MATCH
 CROSS SLOPE OF RESURFACED PAVEMENT.

TYPICAL SECTIONS

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

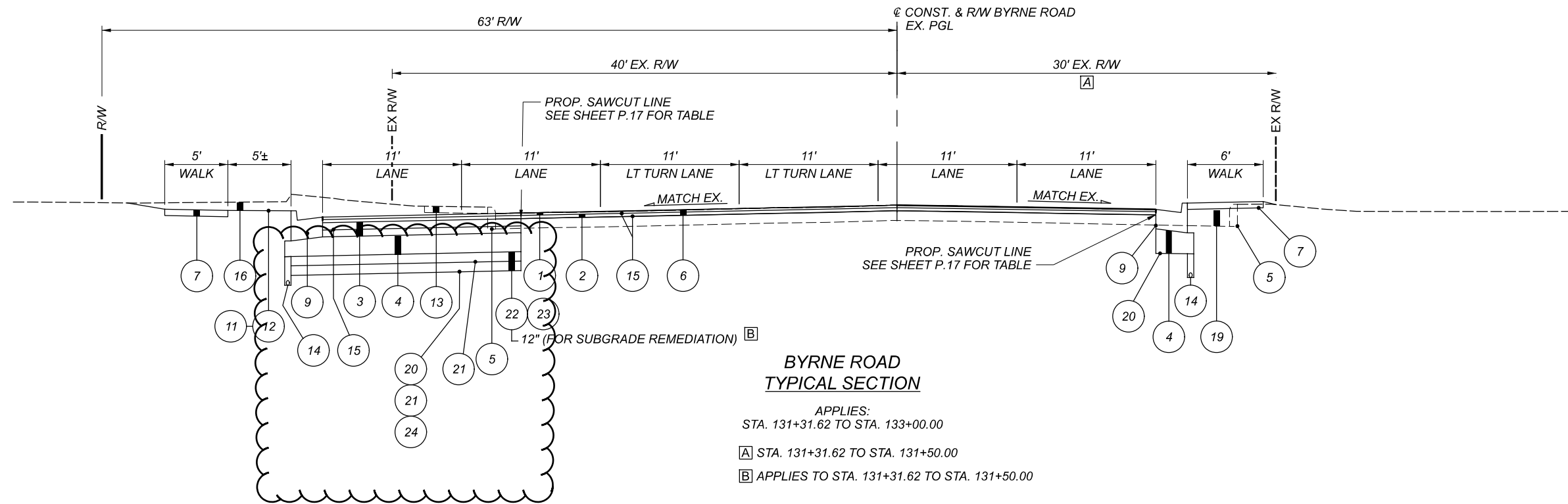
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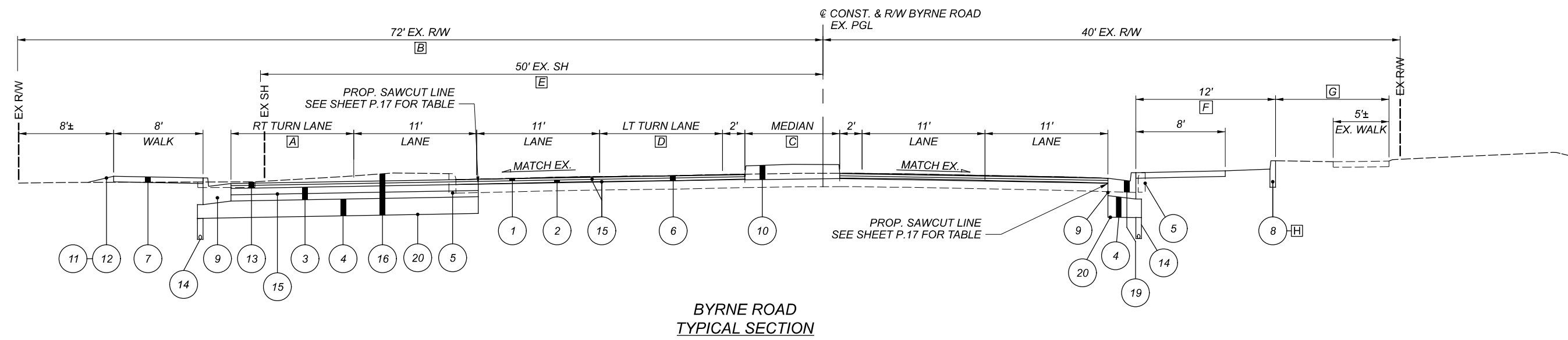
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**BYRNE ROAD
TYPICAL SECTION**
 APPLIES:
 STA. 131+31.62 TO STA. 133+00.00
 [A] STA. 131+31.62 TO STA. 131+50.00
 [B] APPLIES TO STA. 131+31.62 TO STA. 131+50.00



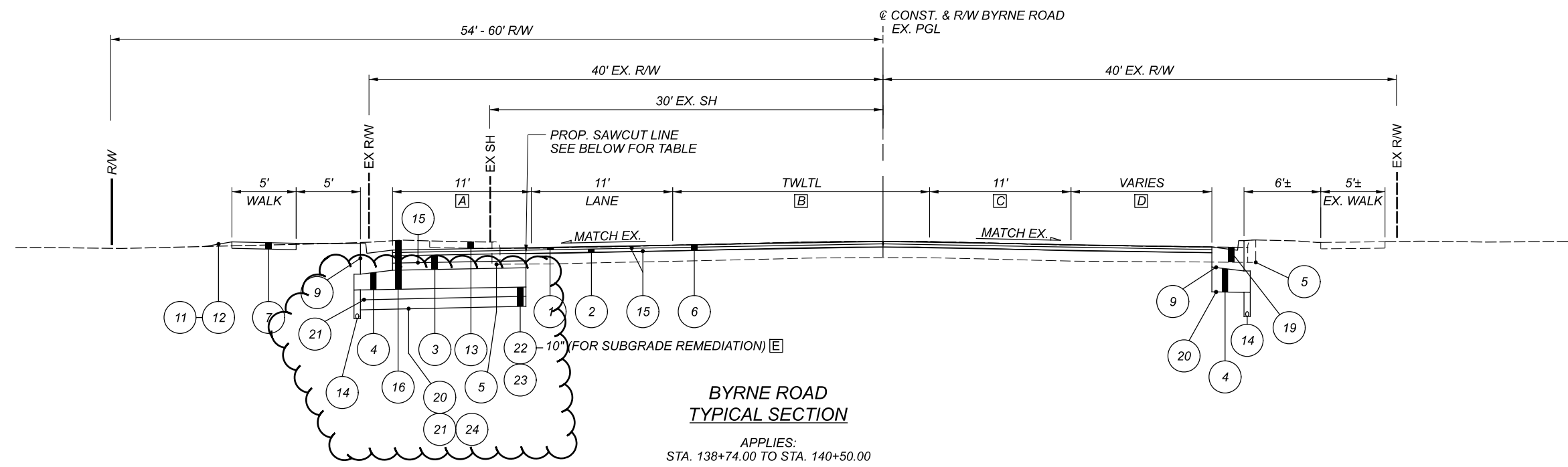
**BYRNE ROAD
TYPICAL SECTION**
 APPLIES:
 STA. 135+74.50 TO STA. 138+74.00
 [A] VARIES 11' FROM STA. 137+33.12 TO 0' AT STA. 137+83.40
 [B] 40' FROM STA. 136+81.44 TO STA. 137+83.40
 [C] VARIES FROM 8.5' AT STA. 138+24.04 TO 17.3' AT STA. 138+66.16
 [D] VARIES FROM 11' AT STA. 138+24.04 TO 0' AT STA. 138+73.65
 [E] APPLIES FROM STA. 136+81.47 TO STA. 137+33.12
 [F] APPLIES FROM STA. 135+74.50 TO STA. 136+95.00.
 TAPERS OUT TO MEET EX. SIDEWALK FROM
 STA. 136+72.33 TO STA. 136+95.00
 [G] APPLIES FROM STA. 136+95.00 TO STA. 138+74.00
 (AT BACK OF PROP CURB AND GUTTER)
 [H] APPLIES FROM STA. 135+74.50 TO STA. 136+36.53

NOTES:
 - SEE SHEET 8 FOR LEGEND.
 - CROSS SLOPE OF WIDENED PAVEMENT WILL MATCH
 CROSS SLOPE OF RESURFACED PAVEMENT.

TYPICAL SECTIONS

DESIGN AGENCY

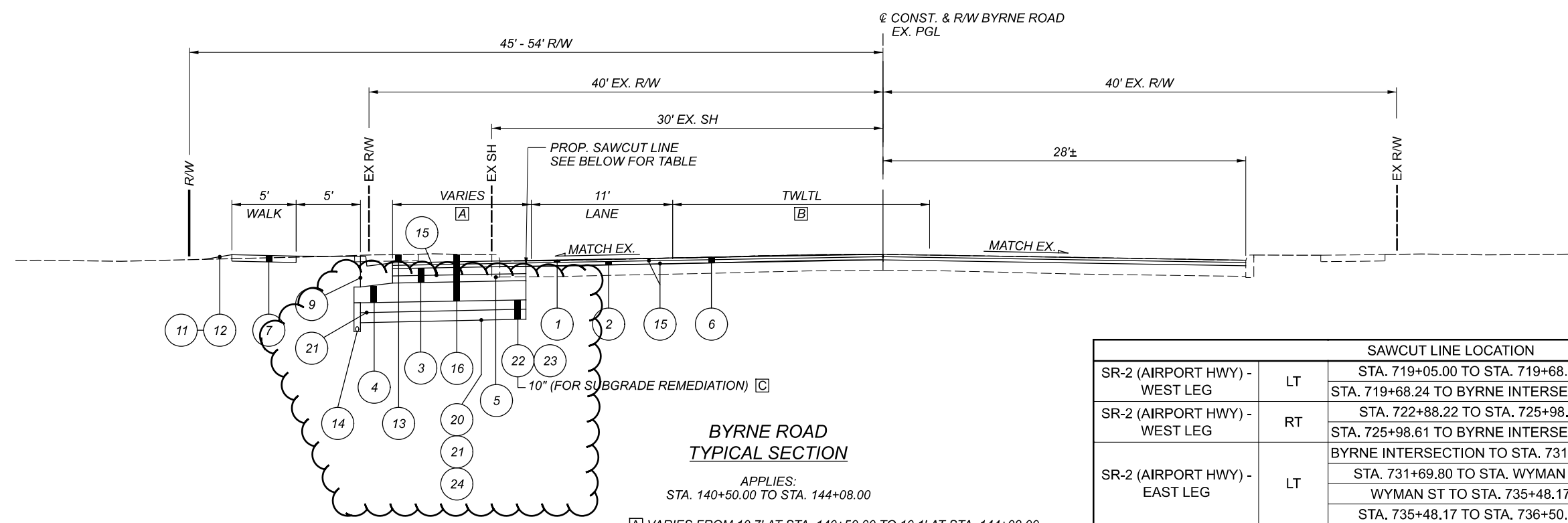
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**BYRNE ROAD
TYPICAL SECTION**

APPLIES:
STA. 138+74.00 TO STA. 140+50.00

- [A] VARIES FROM 11' AT STA. 138+74.00 TO 10.7' AT STA. 140+50.00
- [B] VARIES FROM 23.5' AT STA. 138+74.00 TO 19.5' AT STA. 140+50.00
- [C] VARIES FROM 11' AT STA. 139+90.00 TO 11.56' AT STA. 140+50.00
- [D] VARIES 11' AT STA. 139+90.00 TO 9.8' AT STA. 140+50.00
- [E] STA. 139+50.00 TO STA. 140+50.00



**BYRNE ROAD
TYPICAL SECTION**

APPLIES:
STA. 140+50.00 TO STA. 144+08.00

- [A] VARIES FROM 10.7' AT STA. 140+50.00 TO 10.1' AT STA. 144+08.00
- [B] VARIES FROM 19.6' AT STA. 140+50.00 TO 9.6' AT STA. 144+08.00
- [C] STA. 140+50.00 TO STA. 144+08.00

SAWCUT LINE LOCATION			
SR-2 (AIRPORT HWY) - WEST LEG	LT	STA. 719+05.00 TO STA. 719+68.24	4' INSIDE OF PROP. EOP
		STA. 719+68.24 TO BYRNE INTERSECTION	2' INSIDE OF EX. EOP
SR-2 (AIRPORT HWY) - WEST LEG	RT	STA. 722+88.22 TO STA. 725+98.61	4' INSIDE OF PROP. EOP
		STA. 725+98.61 TO BYRNE INTERSECTION	2' INSIDE OF EX. EOP
SR-2 (AIRPORT HWY) - EAST LEG	LT	BYRNE INTERSECTION TO STA. 731+69.80	2' INSIDE OF EX. EOP
		STA. 731+69.80 TO STA. WYMAN ST	4' INSIDE OF PROP. EOP
		WYMAN ST TO STA. 735+48.17	2' INSIDE OF EX. EOP
SR-2 (AIRPORT HWY) - EAST LEG	RT	STA. 735+48.17 TO STA. 736+50.00	4' INSIDE OF PROP. EOP
		BYRNE INTERSECTION TO STA. 736+50.00	AT PROP. EOP
BYRNE RD - (SOUTH LEG)	LT	STA. 124+21.16 TO STA. 125+92.88	4' INSIDE OF PROP. EOP
		STA. 125+92.88 TO SR-2 INTERSECTION	2' INSIDE OF EX. EOP
BYRNE RD - (SOUTH LEG)	RT	STA. 128+51.07 TO SR-2 INTERSECTION	AT PROP. EOP
BYRNE RD - (NORTH LEG)	LT	SR-2 INTERSECTION TO STA. 142+76.23	2' INSIDE OF EX. EOP
		STA. 142+76.23 TO STA. 144+08.75	4' INSIDE OF PROP. EOP
BYRNE RD - (NORTH LEG)	RT	SR-2 INTERSECTION TO STA. 135+88.90	2' INSIDE OF EX. EOP
		STA. 135+88.90 TO STA. 140+50.00	AT PROP. EOP

NOTES:
 - SEE SHEET 8 FOR LEGEND.
 - CROSS SLOPE OF WIDENED PAVEMENT WILL MATCH CROSS SLOPE OF RESURFACED PAVEMENT.



ITEM 611 - PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, AS PER PLAN

THE CONTRACTOR SHALL CONFORM TO ODOT CMS ITEM 611 UNLESS SPECIFIED BELOW.

THIS WORK CONSISTS OF CONSTRUCTING CONDUITS, AND CONSTRUCTING AND RECONSTRUCTING DRAINAGE STRUCTURES. THIS WORK SHALL INCLUDE EXCAVATING FOR PIPE AND FOUNDATIONS FOR SAME, INCLUDING CLEARING AND GRUBBING AND THE REMOVAL OF ALL PAVEMENTS, MATERIALS AND OBSTRUCTIONS NECESSARY FOR PLACING THE PIPE EXCEPT REMOVALS LISTED SEPARATELY; FURNISHING AND PLACING GRANULAR OR CONCRETE BEDDING, AND INITIAL BACKFILL AND BACKFILL AS REQUIRED; SUPPORTING ADJACENT AND CROSSING UTILITIES; CONSTRUCTING AND SUBSEQUENTLY REMOVING ALL NECESSARY COFFERDAMS, CRIBS AND SHEETING; PUMPING AND DEWATERING; SEALING OR BANDING ALL PIPE JOINTS WHERE REQUIRED; FURNISHING AND INSTALLING ALL NECESSARY PIPE BENDS AND BRANCHES OF A TYPE AT LEAST EQUAL TO THE CONDUIT OF WHICH THEY BECOME A PART; JOINING TO EXISTING AND PROPOSED APPURTENANCES AS REQUIRED; PERFORMING LEAKAGE TESTS AS SPECIFIED; AND RESTORATION OF DISTURBED FACILITIES AND SURFACES WHEN A SEPARATE BID ITEM IS NOT PROVIDED.

MILLING AND REMOVAL OF THE TEMPORARY STONE AND OR ASPHALT WITHIN THE TRENCH LIMITS SHALL BE INCIDENTAL TO THE UNIT PRICE OF THE CONDUITS AND OR STRUCTURES

FURNISH CONDUIT CONSISTING OF ONE OF THE FOLLOWING PIPE MATERIALS:

- 706.02 REINFORCED CONCRETE CIRCULAR PIPE, ASTM C-433
- 706.04 REINFORCED CONCRETE ELLIPTICAL PIPE, ASTM C-990, ASTM C-877
- 706.05 PRECAST REINFORCED CONCRETE BOX SECTIONS, ASTM C-990, ASTM C-877
- 706.08 VITRIFIED CLAY PIPE (EXTRA STRENGTH ONLY), ASTM C-425
- 707.45 POLYVINYL CHLORIDE SOLID WALL PIPE (CELL CLASS 12454-B), ASTM D-3212
- 707.45 POLYVINYL CHLORIDE SOLID WALL PIPE (>15") (PS115, CELL CLASS 12454-B), ASTM D-3212

ALL PIPES AND FITTINGS SHALL BE APPROPRIATELY MARKED IN ACCORDANCE TO APPLICABLE ASTM STANDARDS FOR THE PURPOSE OF IDENTIFICATION AND SHALL BE SUBJECT TO INSPECTION AND REJECTION AT THE FACTORY, PROJECT OR OTHER POINT OF DELIVERY.

FOR STORM SEWERS ON PRIVATE PROJECTS, OUTSIDE OF THE RIGHT OF WAY, THE FOLLOWING TABLE OF PIPES PERMISSIBLE FOR CONDUITS TYPE A, B, AND C (LESS THAN OR EQUAL TO 30 INCH SIZE) ARE AS FOLLOWS:

- 707.21 OR 707.22 ALUMINIZED CMP
- 707.25 CORRUGATED ALUMINUM ALLOY PIPE
- 707.12 CORRUGATED STEEL SPIRAL RIB PIPE
- 707.24 CORRUGATED ALUMINUM SPIRAL RIB PIPE
- 707.33 CORRUGATED POLYETHYLENE SMOOTH LINED PIPE
- 707.41 POLYVINYL CHLORIDE PLASTIC PIPE
- 707.42 POLYVINYL CHLORIDE CORRUGATED SMOOTH INTERIOR PIPE
- 707.43 POLYVINYL CHLORIDE PROFILE WALL PIPE

PIPE MATERIALS FOR PRIVATE UNDERGROUND DETENTION SYSTEMS OTHER THAN SPECIFIED ABOVE, WILL BE ALLOWED WITH THE INCLUSION OF PE STAMPED AND SIGNED SHOP DRAWINGS AND AN AS-BUILT CERTIFICATION OF THE INSTALLATION METHOD.

BEDDING AND INITIAL BACKFILL MATERIALS SHALL BE DURABLE GRAVEL, SAND, SLAG, OR CRUSHED STONE MEETING THE REQUIREMENTS OF 703.11 TYPE 1, TYPE 2, TYPE 3, TABLE 6 OR TABLE 7.

BACKFILL MATERIALS SHALL BE THE SAME MATERIAL USED IN BEDDING AND INITIAL BACKFILL EXCLUDING 703.11 TYPE 3. SUITABLE BACKFILL MATERIAL MAY BE USED IN AREAS OUTSIDE THE PAVEMENT AREA AS DEFINED IN 203.02.R.

TABLE 6 TOTAL PASSING PERCENT				
SIEVE	GRADING AA	GRADING BB	GRADING CC	GRADING DD
3 INCH	100	100	100	100
2 INCH	90-100	95-100	90-100	90-100
1 INCH	70-100		70-100	
NO. 10	25-75	40-100	25-75	40-100
NO. 200	0-10	0-10	5-15	5-15

TEMPORARY SEDIMENT AND EROSION CONTROL, AS PER PLAN

THE CONTRACTOR SHALL CONFORM TO ODOT SUPPLEMENTAL SPECIFICATION 832 UNLESS SPECIFIED BELOW.

832.04 REQUIREMENTS AND PROVISIONS.

ADDED PRIOR TO FIRST SENTENCE, "WITHIN THE CITY OF TOLEDO JURISDICTION A STORMWATER POLLUTION PREVENTION PLAN (SWP3) IS REQUIRED FOR ALL SITES THAT DISTURB 2,500 SQ. FT. OR GREATER, REGARDLESS OF THE SCENARIOS LISTED BELOW".

PIPE COLLARS

CONNECTIONS BETWEEN EXISTING AND PROPOSED PIPE SECTIONS SHALL BE SEALED BY MEANS OF A CONCRETE COLLAR, AS PER STANDARD DRAWING DM-1.1. FERNCO FITTINGS WILL BE AN ACCEPTABLE ALTERNATIVE TO THE CONCRETE COLLARS FOR CONDUIT 24" DIAMETER AND SMALLER. PAYMENT FOR ALL WORK DESCRIBE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 611 CONDUIT ITEMS.

MANUFACTURED WATER QUALITY STRUCTURE, AS PER PLAN

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4.

THE MANUFACTURED STRUCTURE SHALL BE A PRECAST CONCRETE WATER QUALITY STRUCTURE.

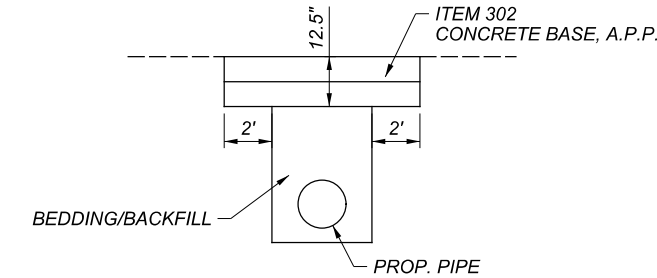
PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

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

- ITEM 202 - PAVEMENT REMOVED 581 SY
- ITEM 302 - ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN 202 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 302 THICKNESS OF 12.5 INCHES, A VARIABLE DEPTH OF BEDDING/BACKFILL TO ENCASE PIPE AND BRING UP TO BOTTOM OF 302 PLACEMENT, AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. ITEM 302 SHALL BE PLACED IN 2 EQUAL, COMPACTED LIFTS.

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



PAVEMENT RESORATION FOR SEWER CROSS-OVERS (NOT TO SCALE)

CONTINGENCY ITEMS

THE FOLLOWING ITEMS ARE ESTIMATED AND INCLUDED IN THE GENERAL SUMMARY FOR USE ON THE PROJECT AS DIRECTED BY THE ENGINEER.

- ITEM 304 - AGGREGATE BASE 35 CY
- ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS 35 SY
- ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN 300 FT
- ITEM 611 - MANHOLE, NO. 3 1 EA
- ITEM 625 - LIGHT POLE REMOVED 4 EA
- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST 150 FT
- ITEM 630 - SIGN, FLAT SHEET 125 SF
- ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, REDFLEX POLES WITH CAMERAS 2 EA
- ITEM SPECIAL - WATER WORK, MISC.: DIRECTIONAL BORE FOR RETAP 5 EA

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GENERAL NOTES

DESIGN AGENCY

DESIGNER
AMD

REVIEWER
JML 11/14/22

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ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE TYPICAL SECTIONS AND CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. FURNISH GEOGRID THAT CONFORMS TO:

<u>INDEX PROPERTIES</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>MD VALUE</u>	<u>XMD VALUE</u>
APERTURE DIMENSIONS	DIRECT MEASUREMENT	IN.	1.0 - 1.6	1.0 - 1.6
MINIMUM RIB THICKNESS	DIRECT MEASUREMENT	IN.	0.05	0.05
TENSILE STRENGTH @ 2% STRAIN	ASTM D6637-01	LB/FT	410	620
TENSILE STRENGTH @ 5% STRAIN	ASTM D6637-01	LB/FT	810	1,340
ULTIMATE TENSILE STRENGTH	ASTM D6637-01	LB/FT	1,310	1,970
<u>STRUCTURAL INTEGRITY</u>				
JUNCTION EFFICIENCY	GRI-GG2-05	%	93	
JUNCTION EFFICIENCY	ASTM D7748	MG-CM	750,000	
FLEXURAL STIFFNESS	US ACE METHOD	N-M/DEG	0.65	
<u>DURABILITY</u>				
RESISTANCE TO INSTALLATION DAMAGE (SC/SW/GP SOIL)	ASTM D6637-01	%	95/93/90	
RESISTANCE TO LONG-TERM DEGRADATION	ASTM D6637-01	%	100	
RESISTANCE TO UV DEGRADATION	ASTM D4355-05	%	100	

A. UNLESS INDICATED OTHERWISE, VALUES SHOWN ARE MINIMUM AVERAGE ROLL VALUES (MARV)

B. MAXIMUM INSIDE DIMENSION IN EACH PRINCIPAL DIRECTION MEASURED BY CALIPERS.

C. RESISTANCE TO IN-PLANE ROTATIONAL MOVEMENT MEASURED BY APPLYING A 20 KG-CM (2 N-M) MOMENT TO THE CENTRAL JUNCTION OF A 9 INCH X 9 INCH SPECIMEN RESTRAINED AT ITS PERIMETER IN ACCORDANCE WITH U.S. ARMY CORPS OF ENGINEERS METHODOLOGY FOR MEASUREMENT OF APERTURE STABILITY MODULUS (TORSIONAL RIGIDITY).

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING - CONT.

D. GEOGRID IS TO BE INSTALLED PER MANUFACTURES RECOMMENDATIONS.

7. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
8. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSTABLE SUBGRADE ARE PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM SPECIAL - PETROLEUM CONTAMINATED SOILS

ENVIRONMENTAL STUDIES HAVE SHOWN THAT PETROLEUM CONTAMINATED SOILS AND REGULATED WATER MAY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES AT 3516 AIRPORT HIGHWAY/806 SOUTH BYRNE ROAD AND 3505 AIRPORT HIGHWAY BETWEEN THE EXISTING RIGHT OF WAY AND PROPOSED RIGHT OF WAY. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL MATERIAL EXCAVATED AT THE AFOREMENTIONED LOCATION SHALL BE DEALT WITH ACCORDING TO THE NOTES BELOW.

THE CONTRACTOR SHALL OBTAIN THE SERVICES OF AN ENVIRONMENTAL CONSULTANT TO EVALUATE THE EXCAVATED MATERIALS FROM THIS SITE AND CLASSIFY THEM INTO 1 OF THE FOLLOWING 2 CATEGORIES: PETROLEUM CONTAMINATED SOILS OR NON-REGULATED SOILS. SAMPLES TO BE USED FOR LABORATORY TESTING SHALL BE COLLECTED IN THE PRESENCE OF THE ENGINEER.

MATERIALS THAT THE CONTRACTOR'S ENVIRONMENTAL CONSULTANT HAS DETERMINED TO BE PETROLEUM CONTAMINATED SOILS MAY BE TEMPORARILY STOCKPILED ON AN IMPERMEABLE MEMBRANE, IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE EXCAVATED MATERIAL FROM COMING IN CONTACT WITH THE UNDERLYING SOIL. AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED MATERIAL INTO TRUCKS. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF EXCAVATED MATERIAL IN A LINED AND COVERED ROLLOFF BOX.

PETROLEUM CONTAMINATED SOILS MAY BE REUSED ON THE PROJECT. HOWEVER, IF THESE MATERIALS CAN'T BE REUSED ON THE PROJECT AND ARE OVER THE BUSTR RE-USE LEVELS STATED IN 1307:7-9-16, THEY ARE TO BE DISPOSED OF. THIS MATERIAL SHALL BE PROPERLY TRANSPORTED, AND DISPOSED OF AS A SOLID WASTE IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING, PERMITS AND APPROVALS TO TRANSPORT AND DISPOSE OF THE MATERIAL. MATERIALS UNDER BUSTR RE-USE LEVELS ARE CONSIDERED NON-REGULATED.

ALL EXCAVATED SOILS WHICH ARE DETERMINED TO BE NON-REGULATED SOILS MAY BE USED AS BACKFILL FOR OTHER PROJECT PURPOSES, PROVIDED THAT IT MEETS ODOT CMS 203. THE WORK INVOLVED IN THIS ITEM INCLUDES HANDLING, TESTING, STORAGE, AND DISPOSAL OF NON-REGULATED SOILS.

IF EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL DEWATER, CONTAINERIZE, TEST, AND SUBSEQUENTLY DISPOSE OF WATERS BY METHODS DETERMINED BY THE ENVIRONMENTAL CONSULTANT BASED ON OAC 3745-81. THE INFORMATION SHALL BE SUBMITTED TO THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS AND/OR AUTHORIZATIONS NEEDED TO STORE, TRANSPORT AND DISPOSE OF THE WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL REGULATIONS.

THE ENVIRONMENTAL CONSULTANT WILL TEST THE WATER TO CLASSIFY IF THE WATER IS ONE OF THE FOLLOWING TWO CATEGORIES PRIOR TO REMOVING IT FROM THE SITE. SAMPLES TO BE USED FOR LABORATORY TESTING SHALL BE COLLECTED IN THE PRESENCE OF THE ENGINEER.

THE ENVIRONMENTAL CONSULTANT WILL DETERMINE IF THE WATER IS NON-REGULATED BASED ON OAC 3745-81. THE METHOD FOR DISPOSING OF THE NON-REGULATED WATER SHALL BE DETERMINED BY THE ENVIRONMENTAL CONSULTANT AND SUBMITTED TO THE ENGINEER FOR RECORDS RETENTION. WORK INVOLVED WITH THIS ITEM SPECIAL INCLUDES THE HANDLING, STORAGE, TESTING (FOR DISPOSAL) AND DISPOSAL OF THE NON-REGULATED WATER.

THE ENVIRONMENTAL CONSULTANT WILL DETERMINE IF THE WATER IS REGULATED BASED ON OAC 3745-81. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF THE REGULATED WATER. THE METHOD FOR DISPOSING OF THE REGULATED WATER SHALL BE BY THE ENVIRONMENTAL CONSULTANT AND SUBMITTED TO THE ENGINEER FOR RECORDS RETENTION. THE WORK INVOLVED IN THIS ITEM SPECIAL INCLUDES THE HANDLING, STORAGE, TESTING (FOR DISPOSAL), AND DISPOSAL OF REGULATED WATER.

THE CONTRACTOR IS TO COMPLETE ALL MANIFESTS FOR ALL MATERIAL TO BE TRANSPORTED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO TRANSPORT THE MATERIAL TO A LICENSED AND PERMITTED DISPOSAL FACILITY. CONTACT THE DISPOSAL FACILITY TO DETERMINE IF ANY ADDITIONAL TESTING IS REQUIRED FOR DISPOSAL. PROVIDE ANY ADDITIONAL SAMPLING AND ANALYSIS OF THE MATERIAL AS REQUIRED BY THE DISPOSAL FACILITY AT NO ADDITIONAL CHARGE TO THE PROJECT. OBTAIN ALL SIGNATURES ON THE MANIFEST FOR TRANSPORTING AND DISPOSAL OF THE MATERIAL AND PROVIDE A FINAL COPY TO THE ENGINEER.

ALL TRANSPORT VEHICLES USED FOR THE MOVEMENT OF REGULATED SOILS AND/OR WATER SHALL MEET APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN RECORDS (SUCH AS DAILY LOGS, LANDFILL TICKETS, MANIFESTS, ETC.) DOCUMENT THE SOURCE, MOVEMENT, AND DESTINATION OF EACH TRUCKLOAD OF CONTAMINATED SOIL. ONE COPY OF EACH OF THESE RECORDS SHALL BE SUBMITTED TO THE ENGINEER.

THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE, TEST (FOR DISPOSAL), TRANSPORT, AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE LIMITS IDENTIFIED ABOVE. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID PER TON AND/OR PER GALLON. QUANTITIES WILL BE DETERMINED FROM FINAL DOCUMENTS PROVIDED BY THE DISPOSAL FACILITY WHICH SHOW THE AMOUNT OF MATERIAL DISPOSED OF. PAYMENT FOR THIS ITEM SPECIAL SHALL BE MADE AT THE APPROPRIATE CONTRACT BID PER THE ITEMS LISTED BELOW. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

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

ITEM 690 SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL 2 TON

ITEM 690 SPECIAL - WORK INVOLVING NON-REGULATED WATER 500 GALLONS

ITEM 690 SPECIAL - WORK INVOLVING REGULATED WATER 500 GALLONS

GENERAL NOTES

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DESIGN AGENCY



DESIGNER

AMD

REVIEWER

JML 11/14/22

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ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN, AND REMOVE ALL SIGNS, AND SIGN SUPPORTS, BARRICADES, CONES, DRUMS, FLAGGERS, AND ANY INCIDENTALS AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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.

ANY WORK THAT REQUIRES THE CLOSING OF A MAINTAINED LANE OF TRAFFIC SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS SHALL BE PERFORMED DURING NIGHTTIME HOURS FROM 8 PM TO 6 AM. THIS WORK INCLUDES BUT IS NOT LIMITED TO MOT SET-UPS, TEAR-DOWN, AND SIGNAL WORK. DAMAGES SHALL BE ACCESSED AT \$50 PER MINUTE THAT THE ROAD IS NOT COMPLETELY OPEN TO TRAFFIC.

ALL MANHOLES, CATCH BASINS, AND MONUMENT ADJUSTMENTS THAT REQUIRE A LANE CLOSURE SHALL BE COMPLETED AND REOPENED TO TRAFFIC WITHIN 36 HOURS. ALL STRUCTURES IN THE SAME TRAFFIC LANE SHALL BE COMPLETED AT THE SAME TIME.

THE CONTRACTOR SHALL PLACE TEMPORARY WEDGING AROUND ALL MANHOLES, CATCH BASINS, MONUMENT BOXES, AND UTILITY STRUCTURES THAT HAVE NOT BEEN ADJUSTED TO TEMPORARY GRADE DURING ALL PAVEMENT WIDENING PHASES. TEMPORARY PAVEMENT IS TO BE REMOVED/MILLED PRIOR TO FINAL SURFACE COURSE PAVEMENT. INSTALLATION, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

PRIOR TO CLOSING ANY STREET OR TRAFFIC LANE, THE CONTRACTOR SHALL NOTIFY THE CITY OF TOLEDO, DIVISION OF TRANSPORTATION, AT 419-245-1300 OR BY E-MAIL AT SHAWN.COMES@TOLEDO.OH.GOV AT LEAST SEVEN (7) DAYS PRIOR TO STARTING WORK.

UPON THE COMPLETION OF WIDENING PHASES 1-4, AS SHOWN IN THE PLANS, THE CONTRACTOR SHALL INSTALL THE RAISED CONCRETE MEDIANS DURING WEEKNIGHT HOURS. THE CONTRACTOR SHALL NOT CLOSE MORE THAN ONE (1) LANE AT ANY GIVEN TIME TO COMPLETE THE INSTALLATION OF THE "PORK-CHOP" MEDIANS AT THE INTERSECTION, AND CLOSE NO MORE THAN (1) LANE IN EACH DIRECTION FOR THE INSTALLATION OF THE CENTER MEDIANS. ALL TEMPORARY LANE SHIFTS, SIGNING, PAVEMENT MARKINGS, DRUMS, AND ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED TO PERFORM THIS WORK, AND IN ACCORDANCE WITH C&MS 614, WILL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

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

ITEM 410, TRAFFIC COMPACTED SURFACE,
TYPE A OR B 1050 CU. YD.

ITEM 614, ASPHALT CONCRETE FOR,
MAINTAINING TRAFFIC 10 CU. YD.

ITEM 614, MAINTAINING TRAFFIC - CONTINUED

THE CONTRACTOR AND PROJECT ENGINEER SHALL ENSURE THAT PEDESTRIAN TRAFFIC IS MAINTAINED THROUGH OR AROUND THE CONSTRUCTION ZONE AT ALL TIMES. THIS INCLUDES MAINTAINING THREE OF THE FOUR CROSS WALKS AT THE INTERSECTION AT ALL TIMES.

ANY EXISTING VEHICULAR SIGN WHICH WILL NOT APPLY DURING THE MAINTENANCE OF TRAFFIC PHASES SHALL BE COVERED IN THE MANNER DESCRIBED IN 630.10.

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.

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 SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). 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 TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 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 CONST. & 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.

NOTIFICATION OF TRAFFIC RESTRICTIONS - CONTINUED

ODOT NOTIFICATION CONTACT INFORMATION
 THE ODOT PROJECT ENGINEER SHALL FORWARD THE CONSTRUCTION NOTIFICATION INFORMATION THE FOLLOWING DEPARTMENTS WITHIN THE TIMELINE OUTLINED IN TEM PART 642-58 TO ENSURE COMPLIANCE WITH FEDERAL NOTIFICATION REQUIREMENTS:

- A. DISTRICT PUBLIC INFORMATION OFFICER (PIO) BY PHONE AT: (419) 373-4428 OR EMAIL AT: D02.PIO@DOT.OHIO.GOV
- B. DISTRICT PERMIT SECTION BY PHONE AT: (419) 373-4301 OR EMAIL AT: D02.PERMITS@DOT.OHIO.GOV

DROPOFFS IN THE WORK ZONE

THE OPTIONAL WEDGE TREATMENT AS DETAILED ON MT-101.90 WILL BE REQUIRED AND SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

EXCAVATION FOR WIDENING SHALL BE BACKFILLED/WEDGED AT PAVEMENTS EDGE AT THE END OF THE WORK SHIFT AT A 3:1 SLOPE. ASPHALT BASE COURSES DO NOT REQUIRE WEDGING AT PAVEMENT EDGE, BUT SHALL BE FOLLOWED UP WITH THE NEXT LIFT OF ASPHALT WITHIN 24 HOURS OF PLACING THE PREVIOUS ASPHALT COURSE IN WIDENING AREAS.

THE CONTRACTOR SHALL PAVE THROUGH THE PROPOSED ASPHALT INTERMEDIATE COURSE FOR EACH WIDENING PHASE SHOWN IN THE PLANS. PRIOR TO OPENING THE WIDENED PAVEMENT TO TRAFFIC DURING CONSTRUCTION, THE CONTRACTOR SHALL MILL A 3:1 SLOPE INTO THE EXISTING ADJACENT PAVEMENT.

EXTENDED WORK HOURS

THE CONTRACTOR IS EXPECTED TO USE ALL MEANS POSSIBLE, INCLUDING, BUT NOT RESTRICTED TO, MULTIPLE SHIFTS, TWENTY-FOUR (24) HOURS PER DAY SCHEDULING SEVEN (7) DAYS A WEEK, MULTIPLE CREWS, LIGHTING FOR NIGHT WORK, MULTIPLE MATERIAL SOURCES, AND MULTIPLE SUBCONTRACTORS IN ORDER TO COMPLETE THE CONSTRUCTION WITHIN THE SPECIFIED TIME LIMITS.

SPEED LIMIT REDUCTION

THE CITY OF TOLEDO WILL REDUCE THE SPEED LIMIT TO 35 MPH FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL CONTACT THE CITY AT 419-245-1300 A MINIMUM OF ONE WEEK PRIOR TO START OF WORK FOR THE CITY TO INSTALL THE REVISED SPEED LIMIT SIGNS.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

CONSTRUCTION NOISE

DUE TO RESIDENTIAL HOMES AND APARTMENTS, THE CONTRACTOR IS EXPECTED TO COMPLETE ALL ROADWAY WORK SOUTH OF THE AIRPORT HWY (SR-2) AND BYRNE RD INTERSECTION BETWEEN THE WEEKDAY HOURS OF 6 AM AND 11 PM. ANY WORK OUTSIDE OF THE APPROVED DAYS AND HOURS PROVIDED MUST BE APPROVED BY THE CITY AND ENGINEER. THE CONTRACTOR SHALL CONTRACT THE CITY AT 419-245-1300 TO DISCUSS ANY PROPOSED CHANGES.

DRAINAGE CROSSOVERS

THE CONTRACTOR IS TO INSTALL DRAINAGE CROSSOVERS DURING THE NIGHTTIME HOURS OF 8PM TO 6AM, WITH THE EXCEPTION THAT DRAINAGE CROSSOVERS ON BYRNE ROAD SOUTH OF THE AIRPORT HIGHWAY INTERSECTION CAN ONLY BE CONSTRUCTED DURING THE NIGHTTIME HOURS OF 8PM TO 11PM. THE CONTRACTOR IS TO UTILIZE PART-WIDTH CONSTRUCTION FOR ALL DRAINAGE CROSSOVERS AND WILL BE REQUIRED TO MAINTAIN A MINIMUM OF ONE (1) LANE IN EACH DIRECTION, AND ACCOMMODATION FOR LEFT TURNS AT THE BYRNE/AIRPORT HIGHWAY AT ALL TIMES. THIS WORK INCLUDES BUT IS NOT LIMITED TO MOT WORK ZONE ADJUSTMENTS, FLAGGERS, TEMPORARY SIGNAL MODIFICATIONS, TEMPORARY PAVEMENT MARKINGS AND SIGNING. DAMAGES SHALL BE ACCESSED AT \$50 PER MINUTE THAT THE ROADS ARE NOT COMPLETELY OPEN, AS SHOWN IN MOT PLANS, TO TRAFFIC BY 6 AM.

DRIVEWAY ACCESS

ACCESS TO DRIVEWAYS AND ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, EXCEPT DURING BRIEF PERIODS OF TIME WHEN CONSTRUCTION EQUIPMENT IS BLOCKING ACCESS AND FOR PROPER CURE TIME FOR CONCRETE AND ASPHALT. PROPERTY OWNERS SHALL BE NOTIFIED 48 HOURS ADVANCE OF DRIVE BLOCKAGES. RESIDENTIAL AND COMMERCIAL DRIVES HAVING ONLY ONE DRIVE SHALL HAVE THE DRIVE CONSTRUCTED PART-WIDTH TO MAINTAIN ACCESS. BUSINESSES HAVING TWO DRIVES SHALL HAVE AT LEAST ONE DRIVE OPEN AT ALL TIMES DURING BUSINESS HOURS.

PLANED SURFACE

NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 5 DAYS. IF THE PLANED SURFACE IS OPEN MORE THAN 5 DAYS, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT FAILURES THAT OCCUR AFTER 5 DAYS, AT NO ADDITIONAL COST TO ODOT.

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 100 M. GAL.

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.

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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.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS WILL BE SET BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 4 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN - CONTINUED

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT. THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 24 SIGN MONTH ASSUMING 4 PCMS SIGN(S) FOR 6 MONTH(S)

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

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.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS - CONTINUED

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.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

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).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
- THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR
- OTHER LOCATION AS APPROVED BY THE ENGINEER.

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.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS - CONTINUED

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON 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.

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 700 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.

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WORK ZONE TRAFFIC SIGNAL

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL WOOD POLES, DOWN GUYS, CONDUIT RISER, WEATHERHEAD, METERED BASE, DISCONNECT SWITCH, MESSENGER WIRE (WITH ACCESSORIES), SIGNAL HEADS, CONTROLLER, WIRING AND ALL OTHER NECESSARY ITEMS IN ACCORDANCE WITH PLAN DETAILS FOR A COMPLETE WORK ZONE INSTALLATION AT THE SR-2 (AIRPORT HWY) AND BYRNE RD INTERSECTION. MAINTENANCE OF ALL WORK ZONE TRAFFIC CONTROL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CLEARANCE FROM THE WORK ZONE SIGNAL WIRING OVER ACTIVE DRIVES SHALL BE MAINTAINED.

THE WORK ZONE SIGNALS ARE DESIGNED AND EXPECTED TO BE USED DURING CONSTRUCTION AND COMPLY WITH CMS SECTION 614.

THE CONTRACTOR SHALL:

INSTALL 45' TEMPORARY WOOD POLES AND APPURTENANCES AS SHOWN ON THE PLAN.

INSTALL 3/8" MESSENGER WIRE BETWEEN THE TEMPORARY WOOD POLES. MESSENGER WIRE ATTACHMENT HEIGHTS AT THE TEMPORARY WOOD POLES SHALL BE ADEQUATE TO PROVIDE A MINIMUM OF 16' CLEARANCE FOR SIGNAL HEADS WHEN INSTALLED.

INSTALL THE TEMPORARY CONTROLLER AND APPURTENANCES AT THE LOCATION SHOWN IN THE PLAN. REFER TO THE ODOT SCD TC-83.10 POWER SERVICE AND CONTROLLER MOUNTING ON WOOD POLES FOR MORE INFORMATION.

INSTALL THE TEMPORARY WORK ZONE SIGNAL HEADS AS SHOWN ON THE PLAN. COVER THE SIGNAL HEADS UNTIL NEEDED.

INSTALL THE TEMPORARY DETECTION AS SHOWN ON THE PLAN. DETECTION FOR PHASES 5 & 3 SHALL BE ADVANCED DETECTION THAT CAN DETECT TRAFFIC A MINIMUM OF 200 FEET BEFORE THE STOP BAR.

INSTALL THE SIGNAL CABLE FOR THE WORK ZONE SIGNAL HEADS IN ACCORDANCE WITH THE WIRING DIAGRAM. CABLE SHALL BE PROVIDED FROM THE SIGNAL HEAD TO THE CONTROLLER. COIL EXTRA WIRE FOR MOVING HEADS IF NEEDED.

PLACE THE WORK ZONE INSTALLATION INTO SERVICE.

THE CONTRACTOR IS RESPONSIBLE FOR REMOVING WORK ZONE INSTALLATION FROM SERVICE UPON COMPLETION OF THE PROJECT.

ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.

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.

ITEM 611, CATCH BASIN, MISC.: CAPPED BELOW GRADE

THE WORK SHALL CONSIST OF CAPPING A PROPOSED CATCH BASIN INLET BELOW GRADE, AND PROVIDING AN APPROPRIATELY SIZED CONCRETE SLAB TOP AS PER CB-3. PAYMENT FOR THE CATCH BASIN SHALL BE PAID FOR UNDER THE APPROPRIATE CATCH BASIN ITEM. THIS ITEM IS INTENDED TO PAY FOR THE CONCRETE SLAB TOP PER CB-3, AND THE ADDITIONAL LABOR AND MATERIAL INVOLVED TO CAP THE CATCH BASIN INLET AND AT A LATER TIME REMOVE AND DISPOSE OF THE CONCRETE SLAB PREVIOUSLY INSTALLED AND FINISH INSTALLATION OF THE CATCH BASIN WITH FINAL CASTING AND FINAL GRADE.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID FOR EACH CATCH BASIN, MISC.: CAPPED BELOW GRADE, AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PERFORM THE WORK.

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18	19	19A	49	52	54	56	57	58	118	120		01/SAF/PV		EXT	TOTAL				
ROADWAY																			
LS	581		2,088	19,165 3,447 2,105	1,667							1,667 4,336 19,165 3,447 2,105		201 202 202 202	11000 23000 30000 32000 32500	1,667 4,336 19,165 3,447 2,105	SY SF FT FT	CLEARING AND GRUBBING PAVEMENT REMOVED WALK REMOVED CURB REMOVED CURB AND GUTTER REMOVED	
				436		705						1,170 436		202 202	35180 38000	1,170 436	FT FT	PIPE REMOVED, 24" AND UNDER GUARDRAIL REMOVED	
						4						4		202	58000	4	EACH	MANHOLE REMOVED	
						23						23		202	58100	23	EACH	CATCH BASIN REMOVED	
						30						30		SPECIAL	20270000	30	FT	FILL AND PLUG EXISTING CONDUIT, 12"	
					42							5,109 23		203	10000	5,109	CY	EXCAVATION	
								5,067 23				23		203	20000	23	CY	EMBANKMENT	
			7,284	503	1,482							9,269		204	10000	9,269	SY	SUBGRADE COMPACTION	
			249									249		204	13000	249	CY	EXCAVATION OF SUBGRADE	
			249									249		204	30020	249	CY	GRANULAR MATERIAL, TYPE C	
4				837								4 837		204	45800	4	HOUR	PROOF ROLLING	
				1,674								1,674		204	50000	837	SY	GEOTEXTILE FABRIC	19
												1,674		204	51001	1,674	SY	GEOTEXTILE FABRIC	
				23,688								23,688		608	10000	23,688	SF	4" CONCRETE WALK	
				1,819								1,819		608	52000	1,819	SF	CURB RAMP	
	4											6		625	75400	6	EACH	LIGHT POLE REMOVED	
		2										2		SPECIAL	69098800	2	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	19A
		500										500		SPECIAL	69098900	500	GAL	WORK INVOLVING NON-REGULATED WATER	19A
		500										500		SPECIAL	69098900	500	GAL	WORK INVOLVING REGULATED WATER	19A
EROSION CONTROL																			
431												431		659	00300	431	CY	TOPSOIL	
3,879												3,879		659	00500	3,879	SY	SEEDING AND MULCHING, CLASS 1	
194												194		659	14000	194	SY	REPAIR SEEDING AND MULCHING	
194												194		659	15000	194	SY	INTER-SEEDING	
0.55												0.55		659	20000	0.55	TON	COMMERCIAL FERTILIZER	
22												22		659	35000	22	MGAL	WATER	
												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																			
							693					693		605	13410	693	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31	
							2,020					2,020		605	14020	2,020	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31, (12" TRENCH DEPTH)	
							2,655					2,655		605	14020	2,655	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31, (18" TRENCH DEPTH)	
							370					370		611	00510	370	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
							10					10		611	00901	10	FT	6" CONDUIT, TYPE B, AS PER PLAN	19
	300											1,194		611	04401	1,194	FT	12" CONDUIT, TYPE B, AS PER PLAN	19
												146		611	10401	146	FT	24" CONDUIT, TYPE B, AS PER PLAN	19
												10		611	13401	10	FT	30" CONDUIT, TYPE B, AS PER PLAN	19
												23		611	98180	23	EACH	CATCH BASIN, NO. 3A	
												4		611	98630	4	EACH	CATCH BASIN ADJUSTED TO GRADE	
												1		611	98690	1	EACH	CATCH BASIN, MISC.:CAPPED BELOW GRADE	22
												4		611	99574	4	EACH	MANHOLE, NO. 3	18
												4		611	99575	4	EACH	MANHOLE, NO. 3, AS PER PLAN	
												4		611	99586	4	EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR	
												10		611	99654	23	EACH	MANHOLE ADJUSTED TO GRADE	
												14		611	99660	14	EACH	MANHOLE RECONSTRUCTED TO GRADE	
												4		611	99661	4	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	19
												1		895	10040	1	EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4	
PAVEMENT																			
			21,527									21,527		254	04000	21,527	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.5"	
			1,134									1,151		302	56000	1,151	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	202											202		302	56000	202	CY	ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
AMD

REVIEWER
JML 11/14/22

PROJECT ID
108465

SHEET TOTAL
P.45 181

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
19	49	52	54	118	120	131	133	140	147	151	01/SAF/PV							
																	PAVEMENT CONT.	
35	2,128	28	109								2,300	304	20000	2,300	CY	AGGREGATE BASE		
	5,070		24								5,094	407	20000	5,094	GAL	NON-TRACKING TACK COAT		
			18								18	441	70500	18	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)		
			23								23	441	70700	23	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)		
	1,085			3							1,088	442	10000	1,088	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)		
	1,447			4							1,451	442	10080	1,451	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)		
			88								88	452	10050	88	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS		
35			814								849	452	12050	849	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS		
		5,804									5,804	609	12000	5,804	FT	COMBINATION CURB AND GUTTER, TYPE 2		
		280	16								296	609	26000	296	FT	CURB, TYPE 6		
		847									847	609	72000	847	SY	CONCRETE MEDIAN		
																	WATER WORK	
				121							121	638	01201	121	FT	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS, AS PER PLAN	118	
				24							24	638	02401	24	FT	12" WATERMAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS, AS PER PLAN	118	
				158							158	638	03005	158	FT	16" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH-ON JOINTS AND FITTINGS, AS PER PLAN	118	
				20							20	638	03804	20	FT	24" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 53, PUSH-ON JOINTS AND FITTINGS, AS PER PLAN		
				5							5	638	10800	5	EACH	VALVE BOX ADJUSTED TO GRADE		
5											5	SPECIAL	90011000	5	EACH	DIRECTIONAL BORE FOR RETAP	118	
				1							1	SPECIAL	90011000	1	EACH	HORIZONTAL CONCRETE WATER MAIN OFFSET (16" AND LARGER)	119	
				2							2	SPECIAL	90011000	2	EACH	VERTICAL CONCRETE WATER MAIN OFFSET (16" AND LARGER)	119	
				5							5	SPECIAL	90011000	5	EACH	VERTICAL WATER MAIN OFFSET (12" AND SMALLER)	119	
																	TRAFFIC CONTROL	
150							523				673	630	03100	673	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		
							6				6	630	08600	6	EACH	SIGN POST REFLECTOR		
							1				1	630	74500	1	EACH	OVERHEAD SIGN SUPPORT, MISC.:COT STANDARD TYPE 125 LW, AS PER PLAN	130	
							1				1	630	74500	1	EACH	OVERHEAD SIGN SUPPORT, MISC.:COT STANDARD TYPE 145 LW, AS PER PLAN	130	
							2				2	630	74500	2	EACH	OVERHEAD SIGN SUPPORT, MISC.:COT STANDARD TYPE 175 LW, AS PER PLAN	130	
125							12				12	630	79500	12	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED		
							521				646	630	80100	646	SF	SIGN, FLAT SHEET		
							147				147	630	80224	147	SF	SIGN, OVERHEAD EXTRUSHEET		
							6				6	630	80500	6	EACH	SIGN, DOUBLE FACED, STREET NAME		
							4				4	630	84511	4	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	130	
							12				12	630	84900	12	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
							12				12	630	86002	12	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
							17				17	630	87400	17	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL		
							27				27	630	87500	27	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL		
							4				4	630	88800	4	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND STORAGE		
							22				22	630	97800	22	SF	SIGNING, MISC.:SIGN, FLAT SHEET, SPECIAL DOUBLE SIDED	130	
						1.03					1.03	644	00200	1.03	MILE	LANE LINE, 4"		
						0.87					0.87	644	00300	0.87	MILE	CENTER LINE		
						2,611					2,611	644	00400	2,611	FT	CHANNELIZING LINE, 8"		
						231					231	644	00500	231	FT	STOP LINE		
						399					399	644	00621	399	FT	CROSSWALK LINE, 12", AS PER PLAN	130	
						49					49	644	00700	49	FT	TRANSVERSE/DIAGONAL LINE, YELLOW		
						178					178	644	00720	178	FT	CHEVRON MARKING		
						300					300	644	00900	300	SF	ISLAND MARKING		
						51					51	644	01300	51	EACH	LANE ARROW		
						2					2	644	01350	2	EACH	LANE REDUCTION ARROW		
						546					546	644	01500	546	FT	DOTTED LINE, 4"		
																	TRAFFIC SIGNALS	
									2		2	625	18000	2	EACH	BRACKET ARM, 10'		
									165		165	625	22900	165	FT	NO. 1/8 AWG 2400 VOLT DISTRIBUTION CABLE		
									120		120	625	23400	120	FT	NO. 10 AWG POLE AND BRACKET CABLE		
									50		50	625	25300	50	FT	CONDUIT, 1-1/2", 725.04		
							25	158	1,160	1,343	625	25503	1,343	FT	CONDUIT, 3", 725.05, AS PER PLAN	140		
							25	12	18	55	625	25603	55	FT	CONDUIT, 4", 725.05, AS PER PLAN	140		
									71	71	625	25909	71	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 3"	140		
							25	465	258	748	625	25909	748	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 4"	140		

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
AMD


REVIEWER
JML 11/14/22

PROJECT ID
108465

SHEET TOTAL
P.46 181

SHEET NO.	REF NO.	STATION TO STATION		SIDE	202	202	202	SPECIAL	611	611	611	611	611	611	611	611	611	611	895	611			
					PIPE REMOVED, 24" AND UNDER FT	MANHOLE REMOVED EACH	CATCH BASIN REMOVED EACH	FILL AND PLUG EXISTING CONDUIT, 12" FT	6" CONDUIT, TYPE B, AS PER PLAN FT	12" CONDUIT, TYPE B, AS PER PLAN FT	24" CONDUIT, TYPE B, AS PER PLAN FT	30" CONDUIT, TYPE B, AS PER PLAN FT	CATCH BASIN, NO. 3A EACH	CATCH BASIN ADJUSTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE, NO. 3, AS PER PLAN EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR EACH	MANHOLE ADJUSTED TO GRADE EACH	MANHOLE RECONSTRUCTED TO GRADE EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4 EACH	CATCH BASIN, MISC.: CAPPED BELOW GRADE EACH	
BYRNE ROAD																							
66	R-63	127+77.27	TO	129+07.75	LT	127	1																
66	R-60	131+31.04	TO	131+43.11	LT		1	14															
66	R-61	131+43.11	TO	131+47.43	RT	3	1																
67	R-62	132+90.70	TO	133+00.25	RT	6	1																
AIRPORT HWY (SR-2)																							
60	D-1	719+48.50			RT									1									
60	D-2	719+50.03	TO	719+96.45	LT	41	1			47		1											
60	D-3	719+96.37	TO	719+96.45	RT/LT	61	1			66		1											
60	D-4	719+96.37			RT									1									
61	D-5	721+99.38			RT									1									
61	D-6	721+99.94	TO	722+00.02	LT		1			11		1						1					
61	D-7	722+76.13			RT																		
61	D-8	723+86.26	TO	723+91.03	RT	8	1			10		1											
61	D-9	723+86.26	TO	723+86.61	RT/LT	51	1			62		1											
61	D-10	723+91.03			RT													1					
62	D-11	726+41.87	TO	726+57.18	RT	3	1			23		1											
62	D-12	726+55.70	TO	726+55.94	LT	5	1			13		1											
62	D-13	726+57.18	TO	726+80.89	RT		1				71				1								
62	WQ-1	726+88.63	TO	132+75.17	RT/LT						75					1				1			
62	D-14	727+06.20	TO	727+42.24	RT					45		1											
62	D-15	727+40.57	TO	727+42.24	RT		1													1			
62	D-16	728+44.90			RT							1											
62	D-17	728+55.18	TO	729+00.92	LT	70	1		5	58		1											
63	D-18	730+57.84	TO	730+69.85	RT	13				13					1								
63	D-19	730+64.56			LT															1			
63	D-20	730+69.69	TO	730+69.85	RT		1					1											
63	D-21	730+69.85	TO	730+72.51	RT/LT	55	1			67		1											
63	D-22	733+00.00	TO	733+20.27	RT/LT	47	1			52		1											
63	D-23	733+00.00	TO	733+35.99	LT		1	13		37		1											
63	D-24	733+35.99			LT															1			
63	D-63	733+95.00	TO	734+05.00	LT	10				10					1								
BYRNE ROAD																							
65	D-25	123+47.86			RT															1			
65	D-26	123+48.38			LT															1			
65	D-27	125+61.58	TO	125+82.27	RT/LT	59	1			72		1											
65	D-28	125+77.99			RT									1									
66	D-29	127+74.14	TO	127+74.55	RT/LT	45	1	1		60		1											
66	D-30	127+74.14	TO	127+77.26	LT				3	6										1			
66	D-31	127+74.55			RT																1		
66	D-32	128+56.44			RT	5	1			5													
66	D-33	131+31.04			LT																1		
66	D-34	131+31.04	TO	131+31.20	LT					12		1											
66	D-35	131+43.11			RT	15	1			15		1											
TOTALS CARRIED TO NEXT SHEET						624	4	19	30	5	684	146	0	18	4	2	1	1	5	5	0	1	0

DRAINAGE SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 GCB
 REVIEWER
 AJL 11/14/22
 PROJECT ID
 108465
 SHEET TOTAL
 P.55 181

SHEET NO.	REF NO.	STATION TO STATION	SIDE	202	202	202	SPECIAL	611	611	611	611	611	611	611	611	611	611	611	895	611			
				PIPE REMOVED, 24" AND UNDER FT	MANHOLE REMOVED EACH	CATCH BASIN REMOVED EACH	FILL AND PLUG EXISTING CONDUIT, 12" FT	6" CONDUIT, TYPE B, AS PER PLAN FT	12" CONDUIT, TYPE B, AS PER PLAN FT	24" CONDUIT, TYPE B, AS PER PLAN FT	30" CONDUIT, TYPE B, AS PER PLAN FT	CATCH BASIN, NO. 3A EACH	CATCH BASIN ADJUSTED TO GRADE EACH	MANHOLE, NO. 3 EACH	MANHOLE, NO. 3, AS PER PLAN EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR EACH	MANHOLE ADJUSTED TO GRADE EACH	MANHOLE RECONSTRUCTED TO GRADE EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4 EACH	CATCH BASIN, MISC.: CAPPED BELOW GRADE EACH		
BYRNE ROAD																							
67	D-36	132+75.17	LT										10		1								
67	D-37	132+90.70	RT																	1			
67	D-38	133+63.86	LT																		1		
67	D-39	133+71.23	LT											1								1	
67	D-40	134+44.48	LT																				
67	D-41	134+83.06	RT																				
67	D-60	134+90.64	LT																				
67	D-42	135+01.79	LT																				
67	D-43	135+01.79	TO																				
67	D-43	135+01.79	TO																				
67	D-61	135+41.25	RT																				
67	D-62	136+81.92	RT																				
68	D-44	137+30.00	TO																				
68	D-44	137+30.00	TO																				
68	D-45	137+30.01	RT	10																			
68	D-45	137+30.01	RT	10																			
68	D-46	137+49.66	LT																				
68	D-47	137+50.57	LT																				
68	D-48	139+21.97	TO																				
68	D-48	139+21.97	TO																				
68	D-49	139+22.48	TO																				
68	D-49	139+22.48	TO																				
68	D-50	139+29.18	LT																				
69	D-51	142+15.99	TO																				
69	D-51	142+15.99	TO																				
69	D-52	142+22.59	RT	53																			
69	D-52	142+22.59	RT	53																			
AIRPORT HWY (SR-2)																							
61	S-1	722+57.74	LT																				
61	S-2	723+91.03	LT																				
62	S-3	726+28.77	RT																				
62	S-4	726+75.64	LT																				
63	S-5	734+07.23	LT																				
BYRNE ROAD																							
65	S-6	125+56.44	LT																				
67	S-7	136+81.92	RT																				
TOTALS CARRIED FROM PREVIOUS SHEET				624	4	19	30	5	684	146	0	18	4	2	1	1	5	5	0	1	0		
TOTALS THIS SHEET				81	0	4	0	5	210	0	10	5	0	1	3	0	5	9	4	0	1		
TOTALS CARRIED TO GENERAL SUMMARY				705	4	23	30	10	894	146	10	23	4	3	4	1	10	14	4	1	1		

DRAINAGE SUBSUMMARY

DESIGN AGENCY

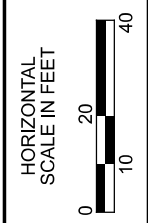
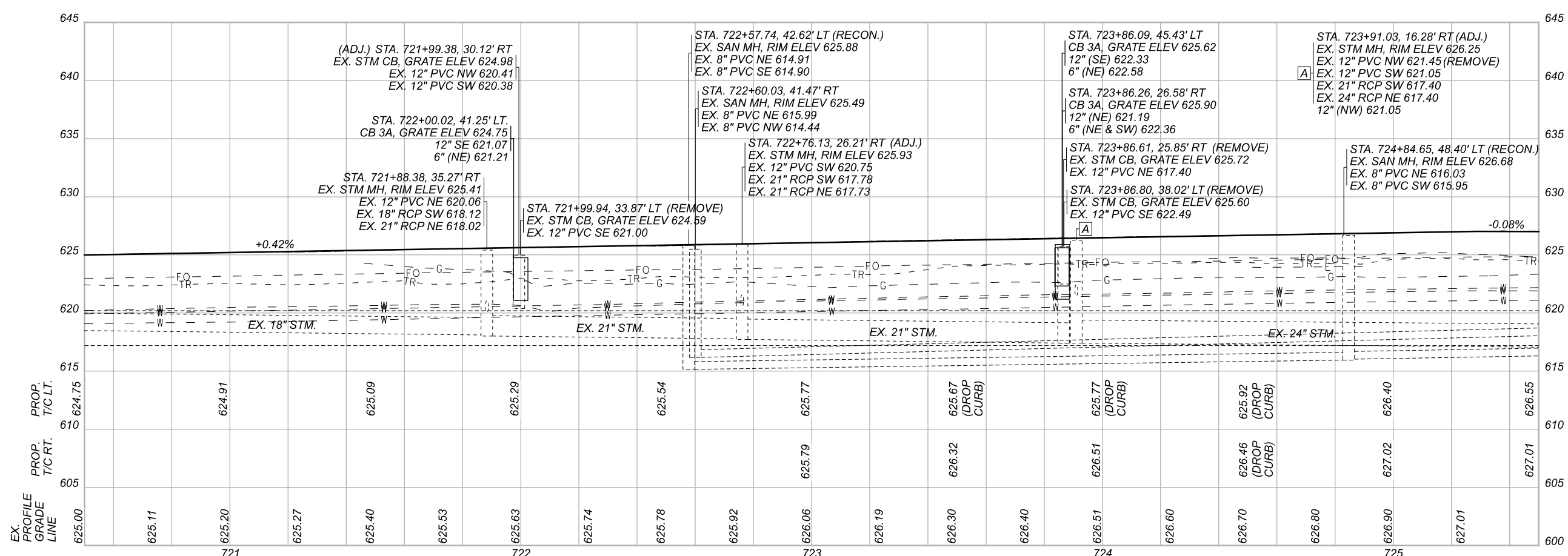
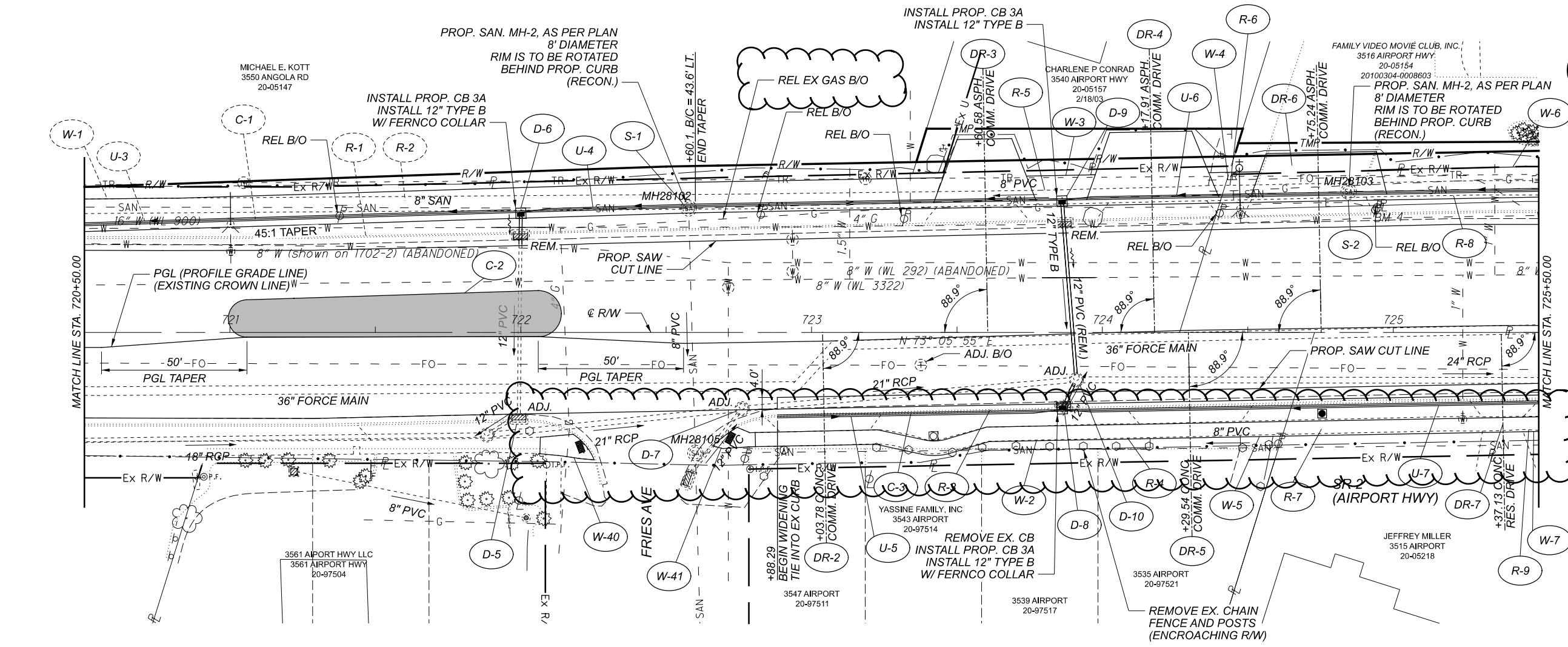


DESIGNER
GCB

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AJL 11/14/22

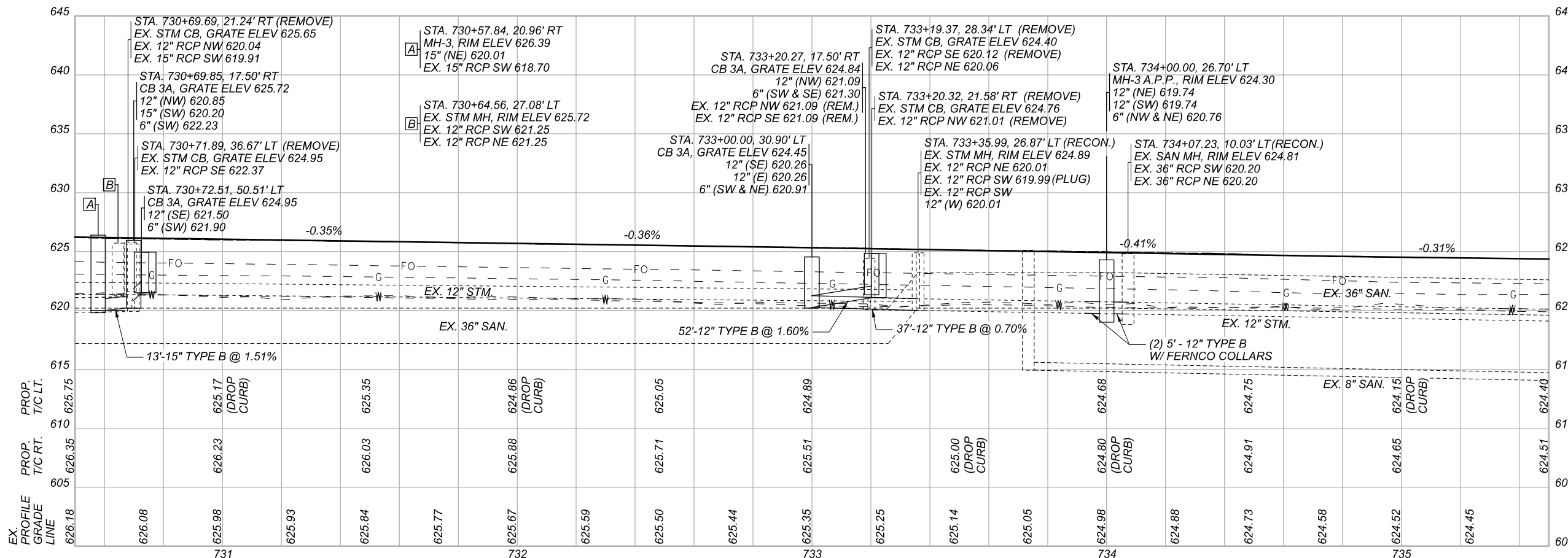
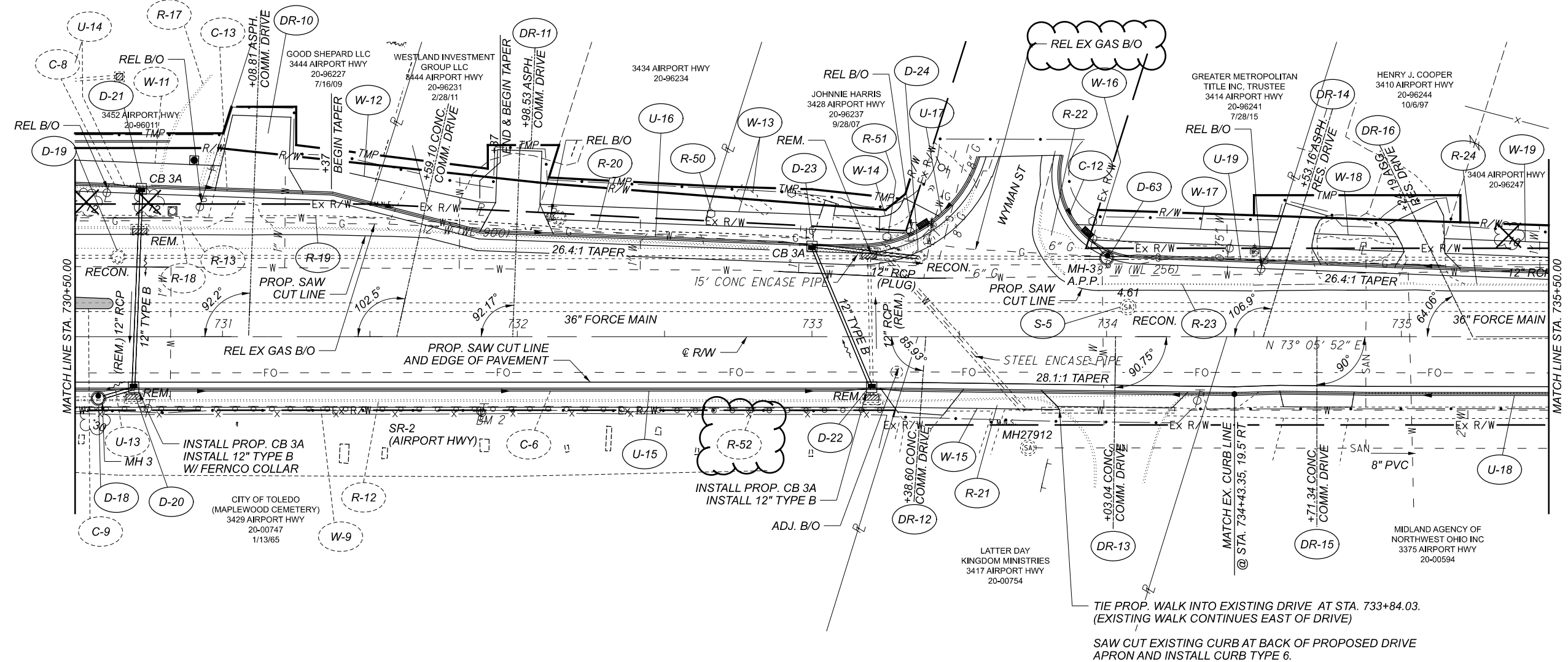
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PLAN AND PROFILE
 AIRPORT HIGHWAY (SR-2)

DESIGN AGENCY	
DESIGNER	AMD
REVIEWER	AJL 11/14/22
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SHEET TOTAL	P.61 181



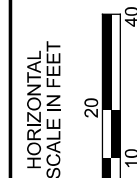
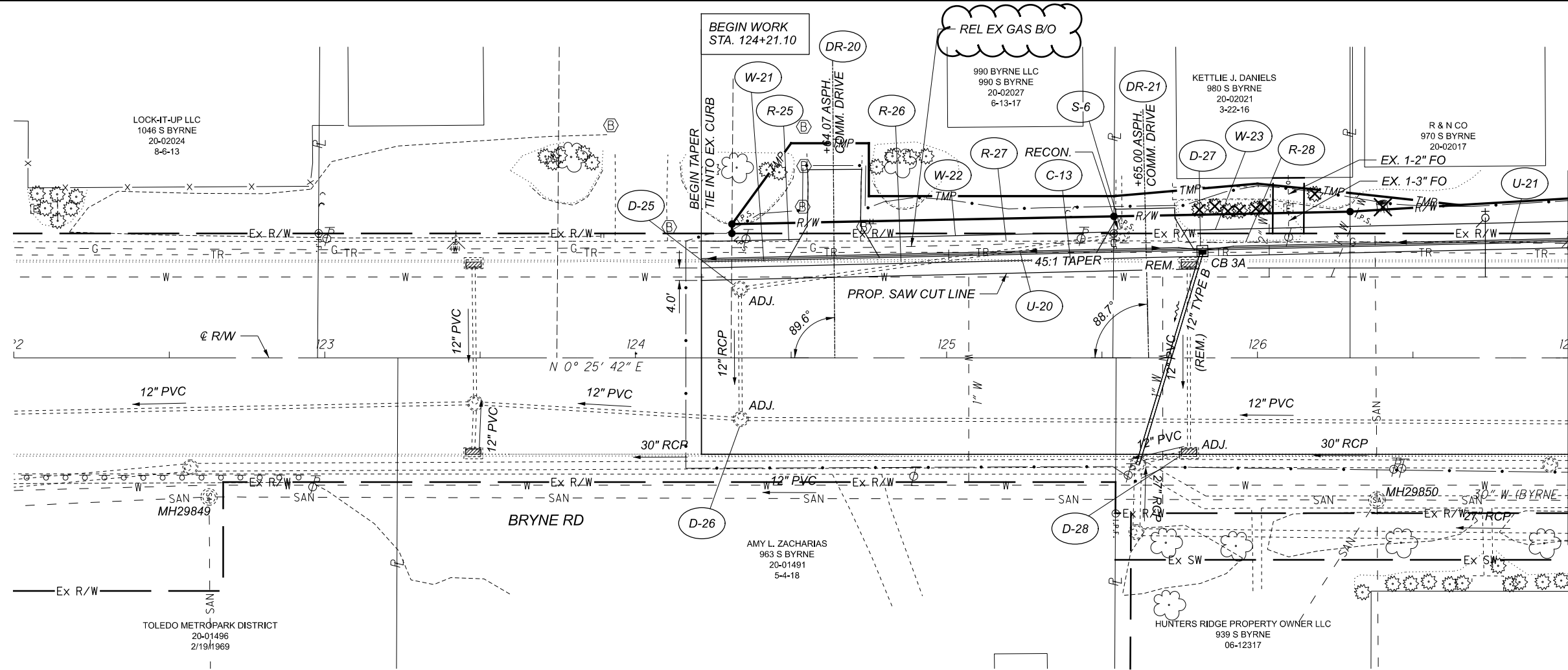
PLAN AND PROFILE
 AIRPORT HIGHWAY (SR-2)



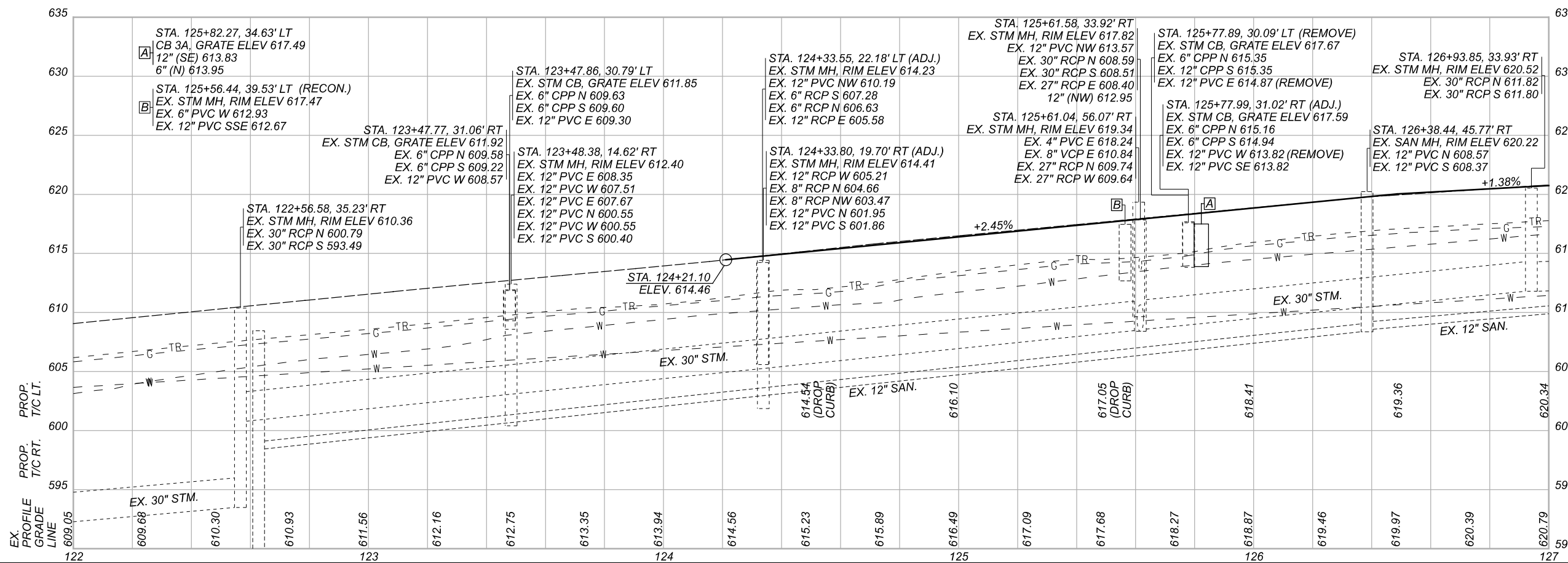
DESIGN AGENCY



DESIGNER	AMD
REVIEWER	AJL 11/14/22
PROJECT ID	108465
SHEET	P.63
TOTAL	181



PLAN AND PROFILE
BYRNE ROAD



DESIGN AGENCY



DESIGNER

AMD

REVIEWER

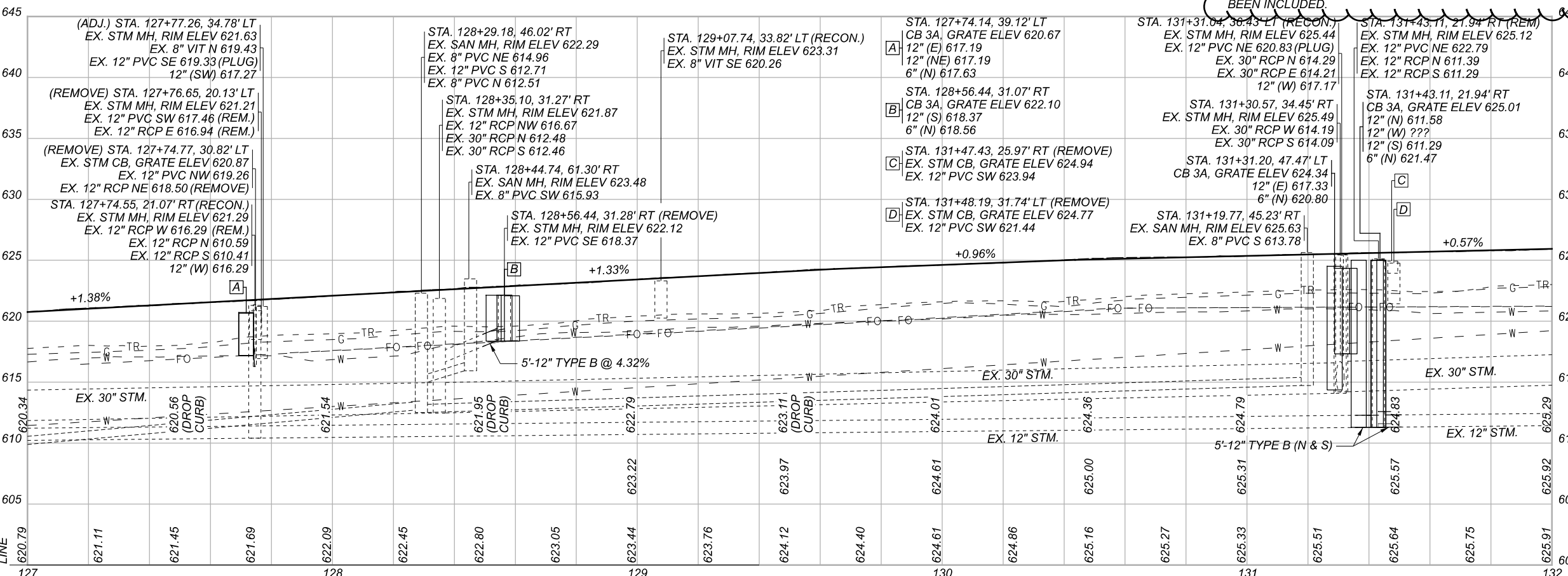
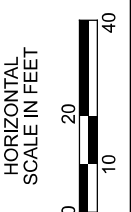
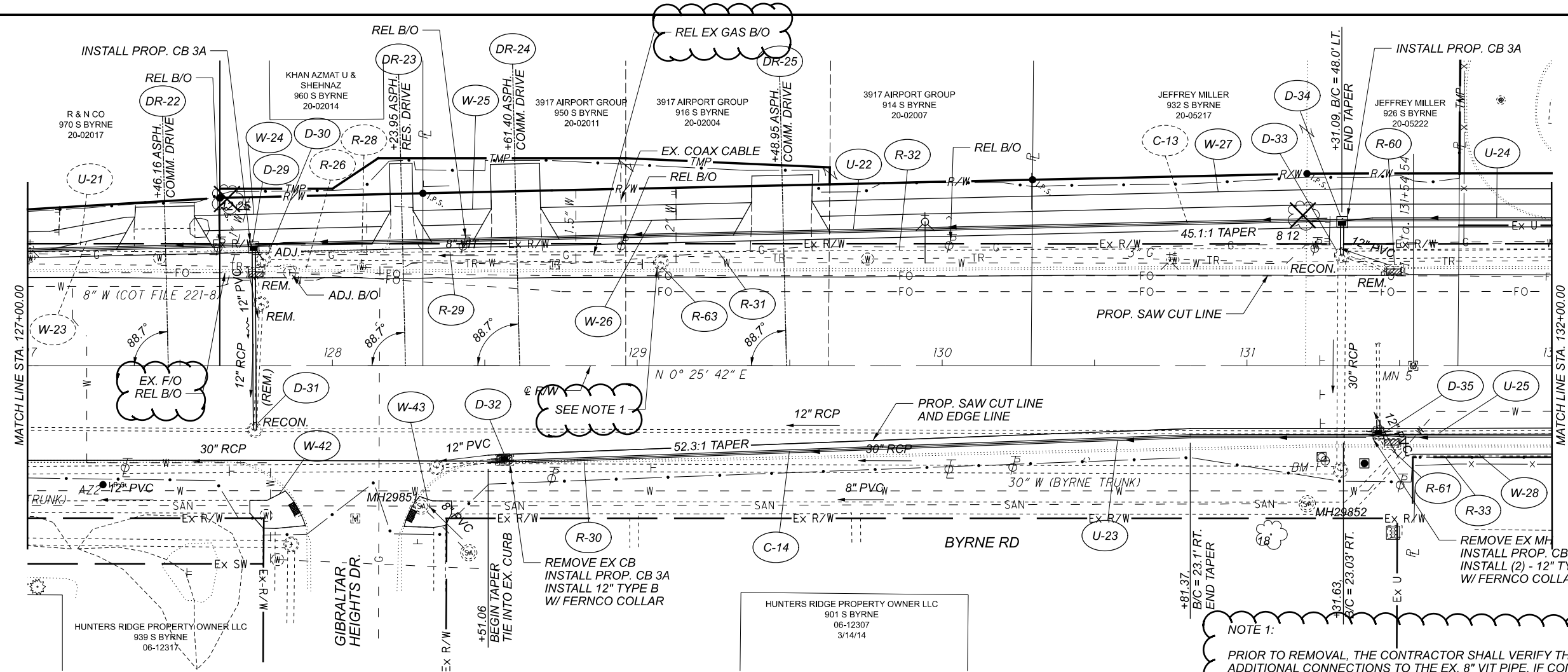
AJL 11/14/22

PROJECT ID

108465

SHEET TOTAL

P.65 181



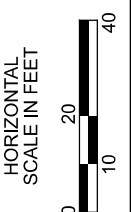
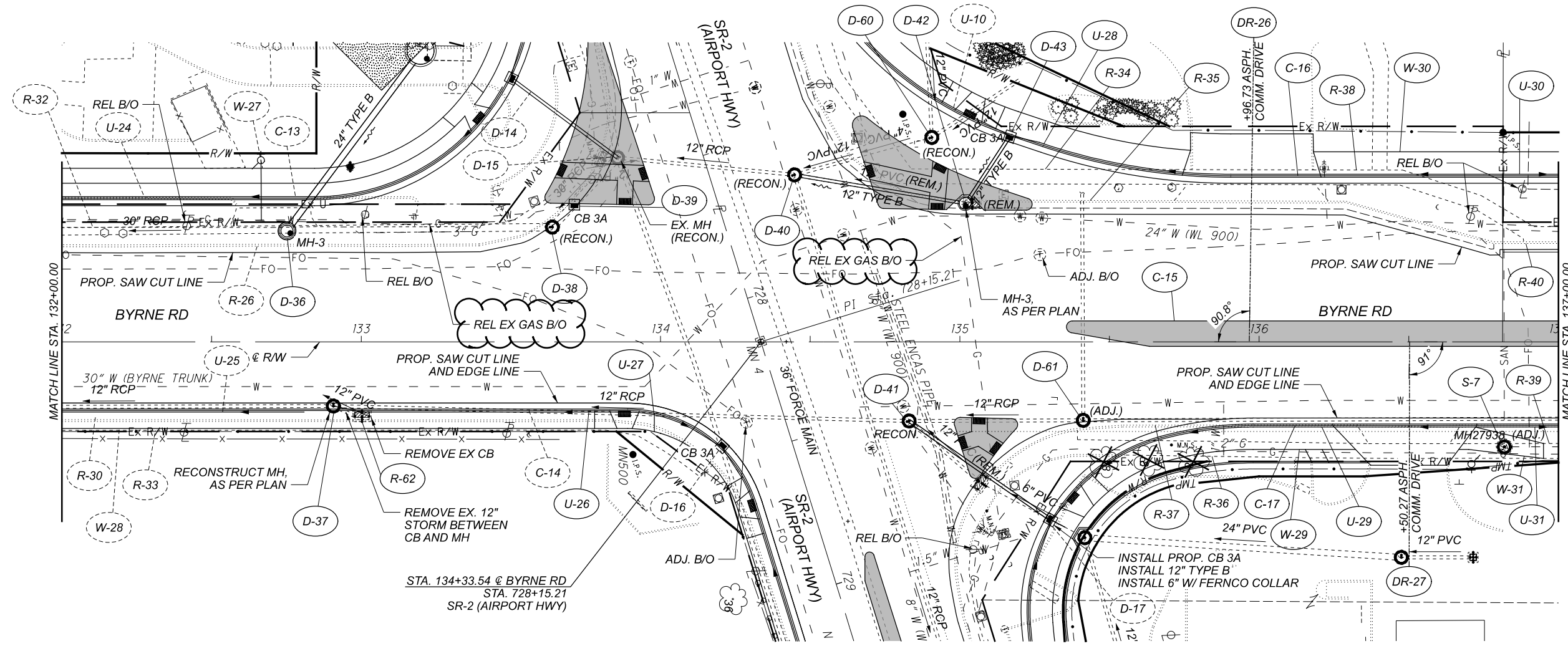
NOTE 1:
PRIOR TO REMOVAL, THE CONTRACTOR SHALL VERIFY THERE ARE NO ADDITIONAL CONNECTIONS TO THE EX. 8" VIT PIPE. IF CONNECTIONS ARE FOUND, THE CONTRACTOR SHALL REMOVE THE EXISTING MANHOLE AND PIPE, REPLACE WITH A MH-3 AND 12" TYPE B CONDUIT LOCATED BELOW THE 304 AGG BASE LAYER, AND RECONNECT PIPE(S). CONTINGENCY QUANTITIES HAVE BEEN INCLUDED.

**PLAN AND PROFILE
BYRNE ROAD**

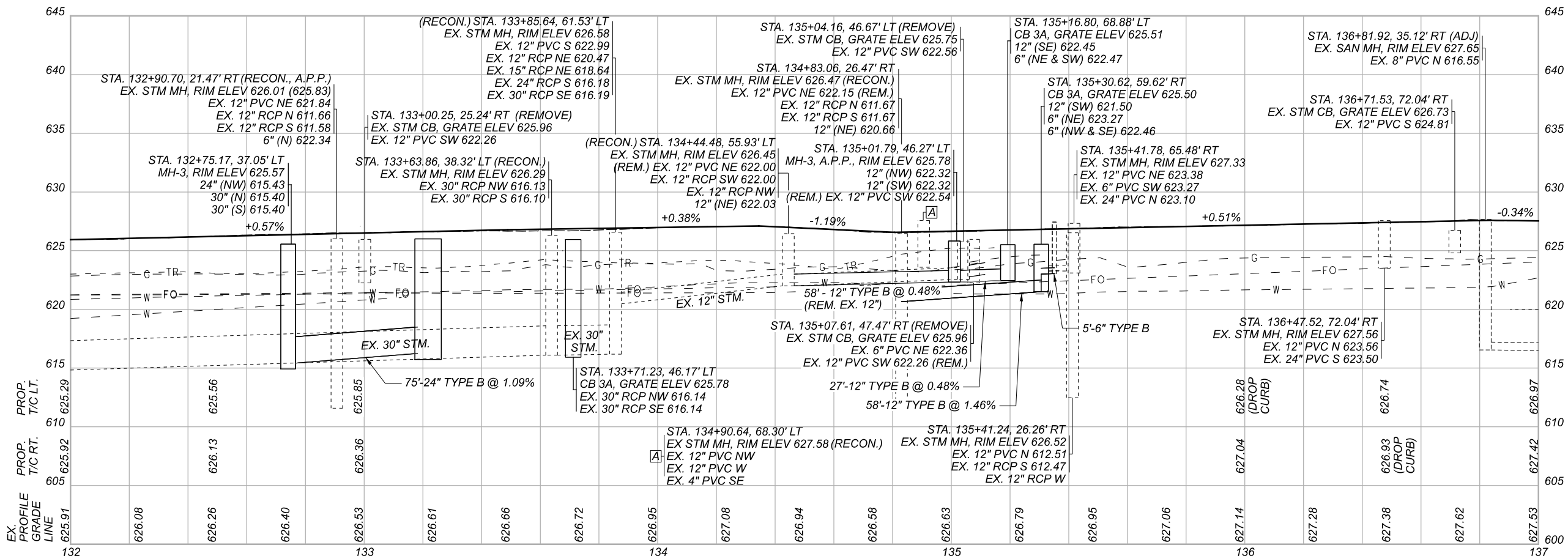
DESIGN AGENCY



DESIGNER	AMD
REVIEWER	AJL 11/14/22
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SHEET	P.66
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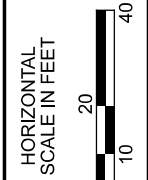
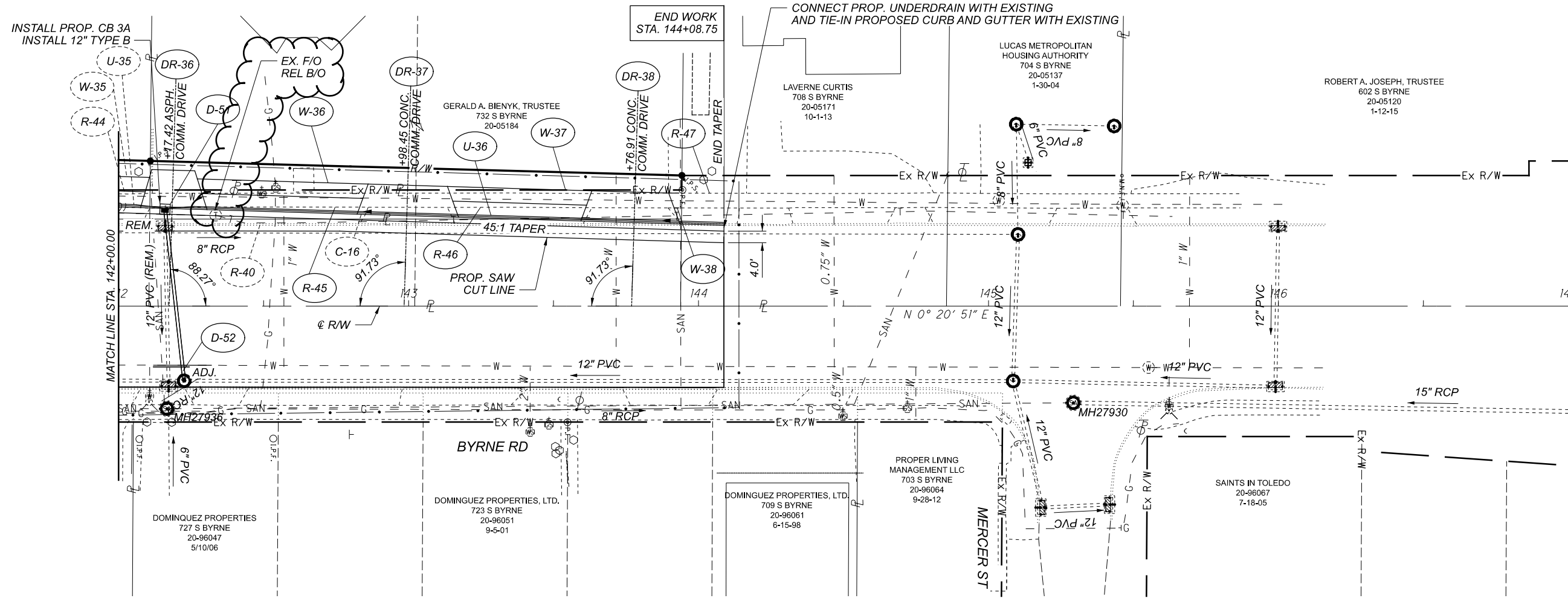
PLAN AND PROFILE
BYRNE ROAD



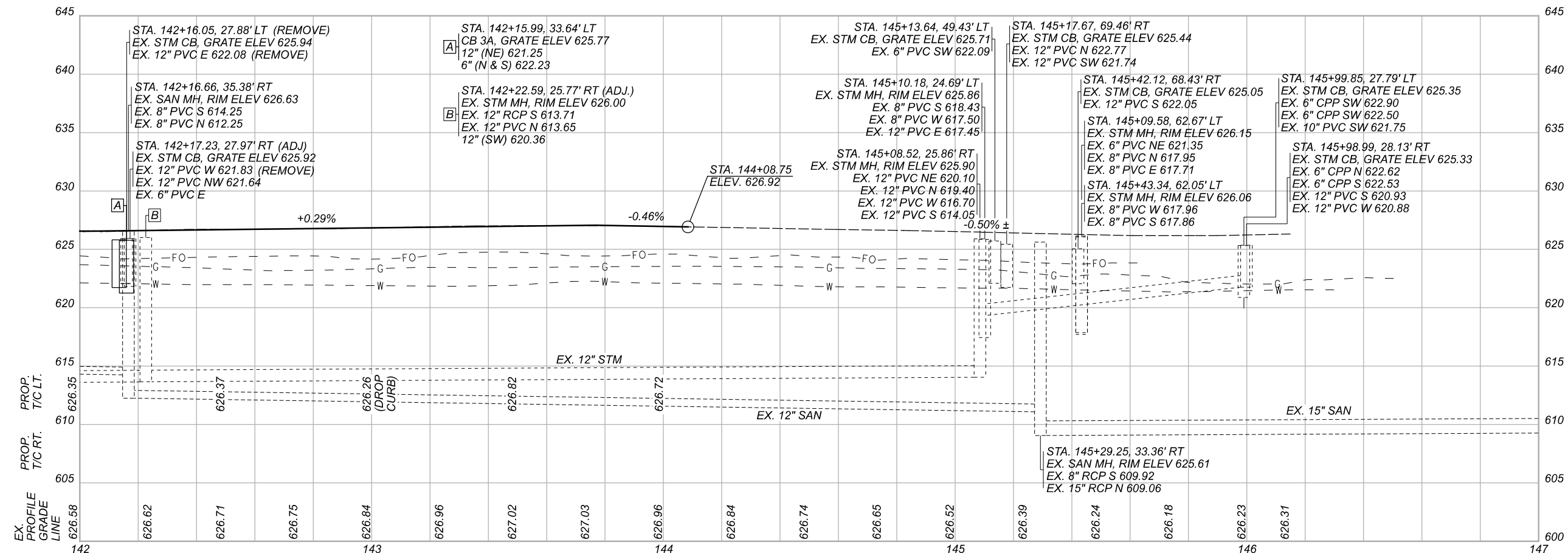
DESIGN AGENCY



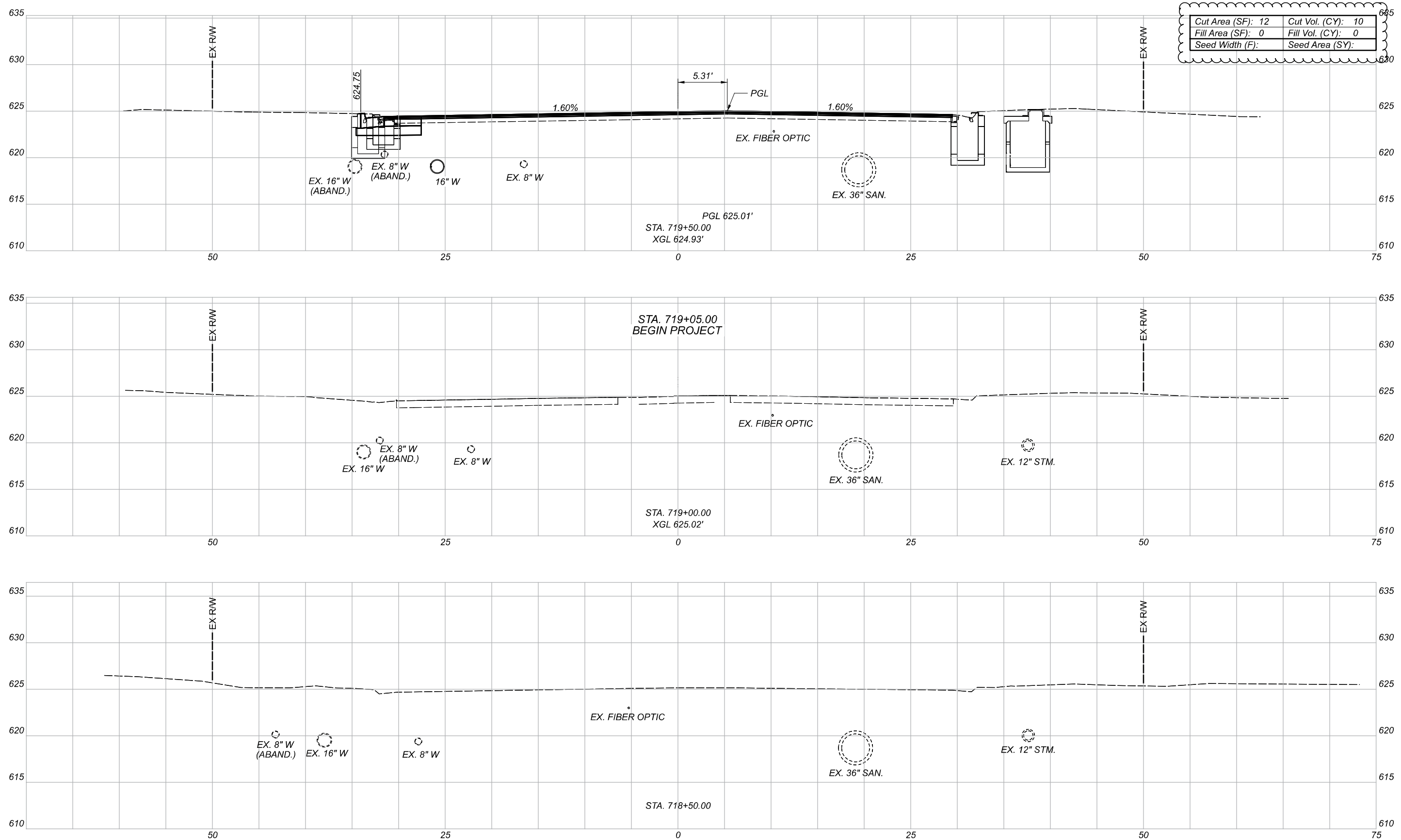
DESIGNER	AMD
REVIEWER	AJL 11/14/22
PROJECT ID	108465
SHEET	P.67
TOTAL	181



PLAN AND PROFILE
BYRNE ROAD



DESIGN AGENCY	
DESIGNER	AMD
REVIEWER	AJL 11/14/22
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Cut Area (SF): 12	Cut Vol. (CY): 10
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 718+50 TO STA. 719+50

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

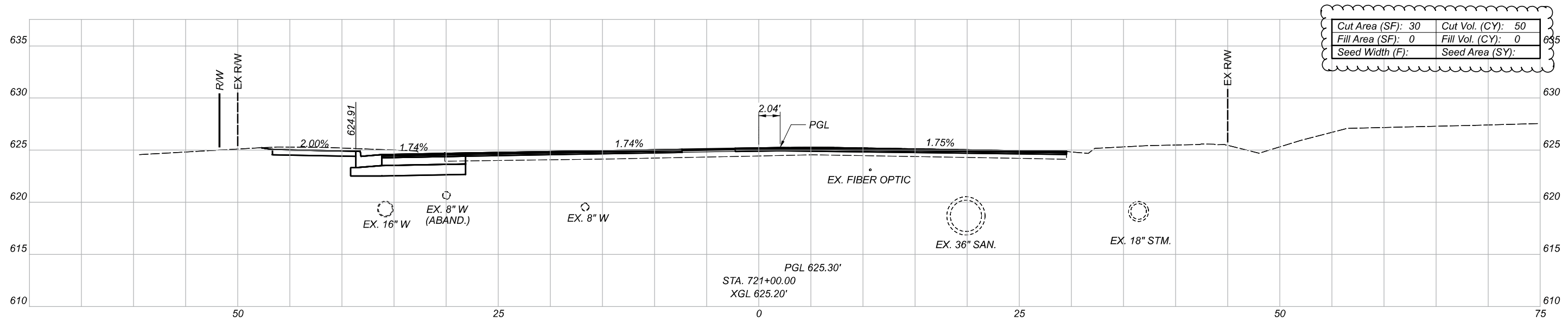
AJL 11/14/22

PROJECT ID

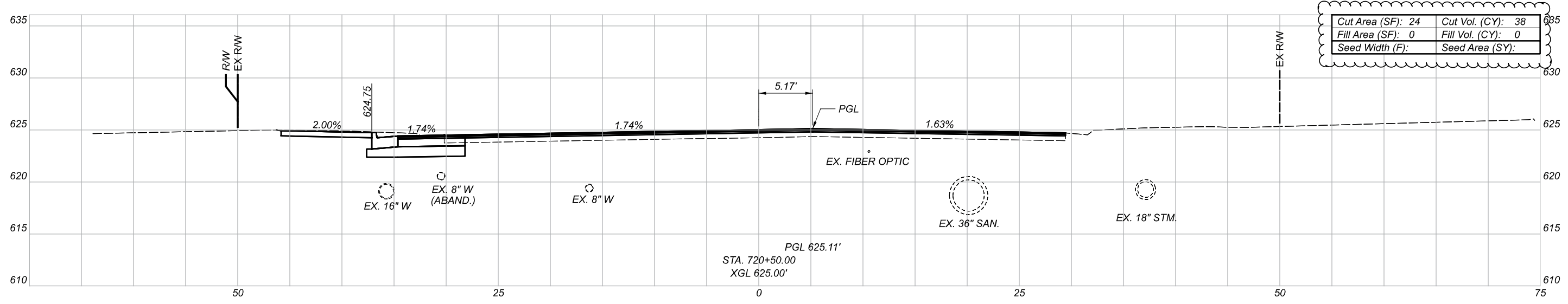
108465

Sheet Totals		
Seeding	Cut	Fill
10	0	

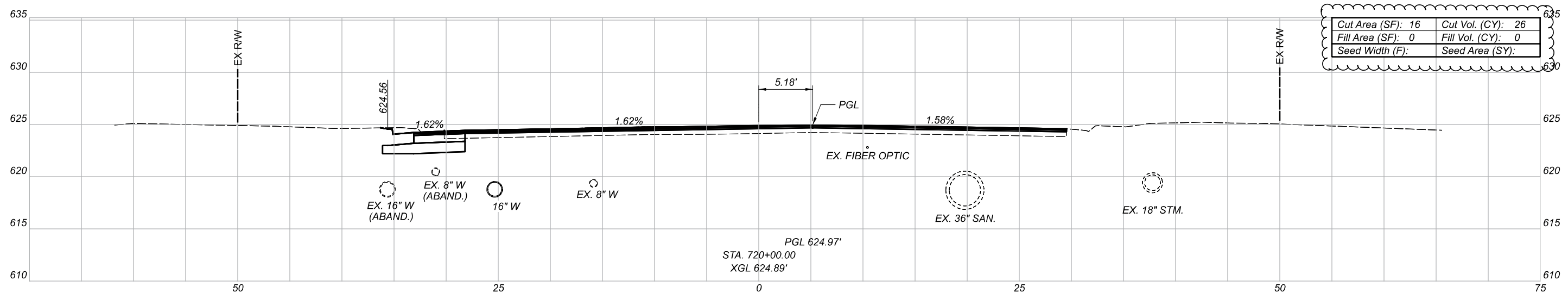
SHEET	TOTAL
P.71	181



Cut Area (SF): 30	Cut Vol. (CY): 50
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 24	Cut Vol. (CY): 38
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 16	Cut Vol. (CY): 26
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 720+00 TO STA. 721+00

DESIGN AGENCY



DESIGNER

AMD

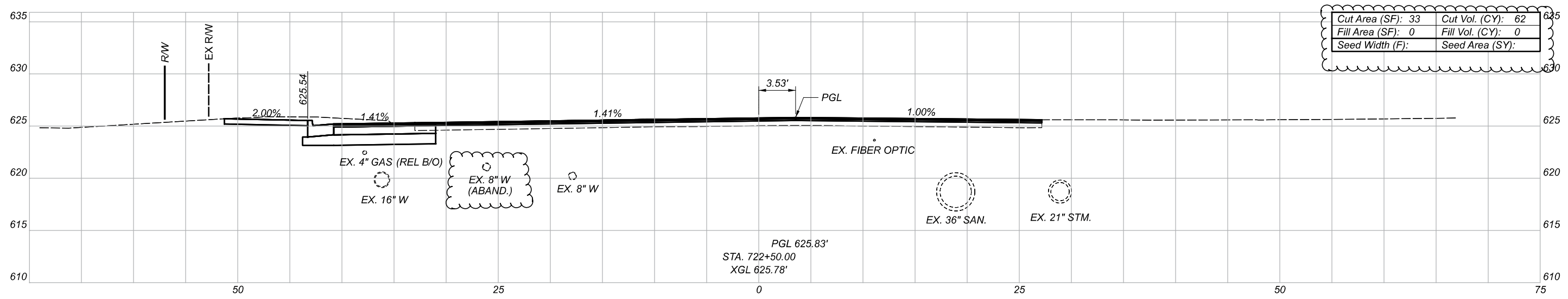
REVIEWER

AJL 11/14/22

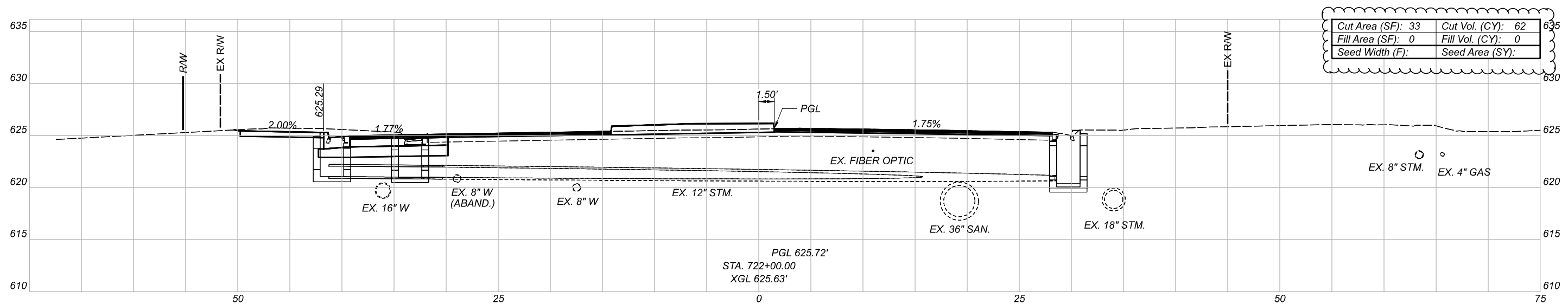
PROJECT ID

108465

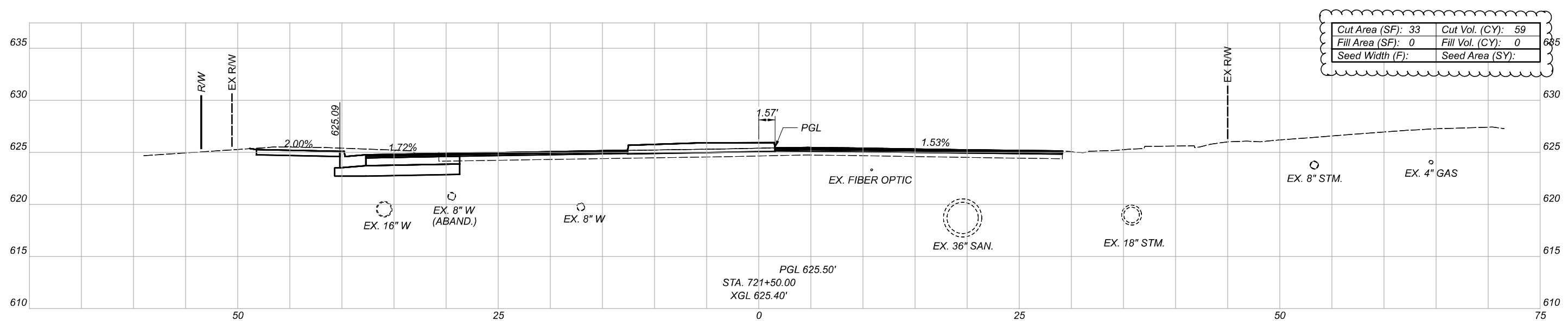
Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
114	0	0	F.72	181



Cut Area (SF): 33	Cut Vol. (CY): 62
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 33	Cut Vol. (CY): 62
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 33	Cut Vol. (CY): 59
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
STA. 721+50 TO STA. 722+50

DESIGN AGENCY



DESIGNER

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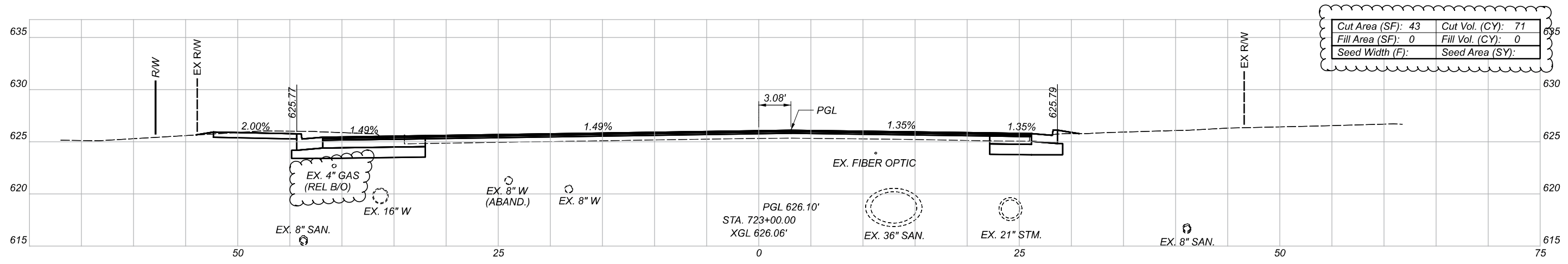
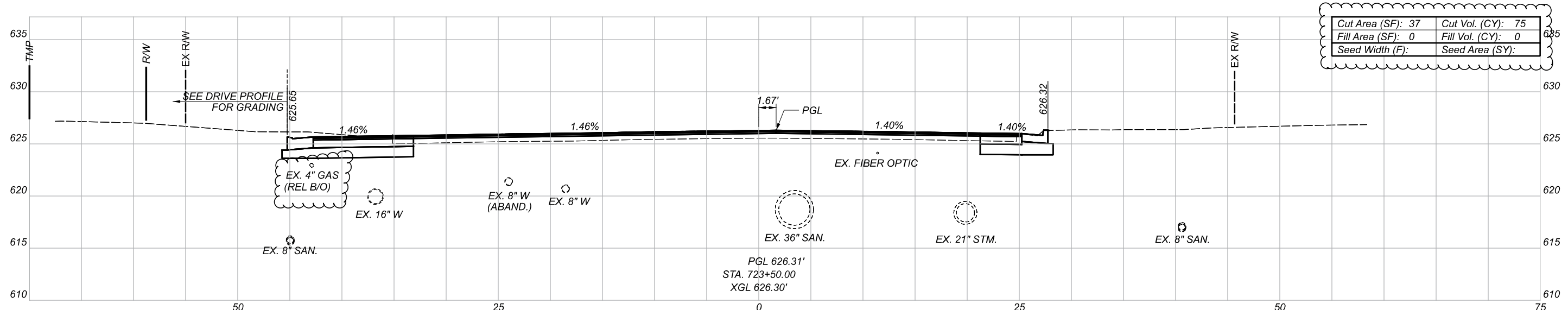
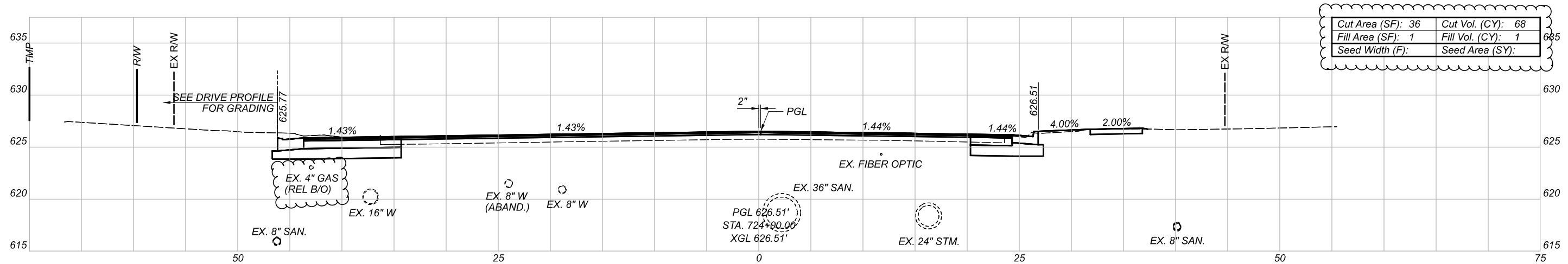
REVIEWER

AJL 11/14/22

PROJECT ID

108465

Sheet Totals			SHEET TOTAL
Seeding	Cut	Fill	
183	0	2.73	181



Sheet Totals		
Seeding	Cut	Fill
214	1	1

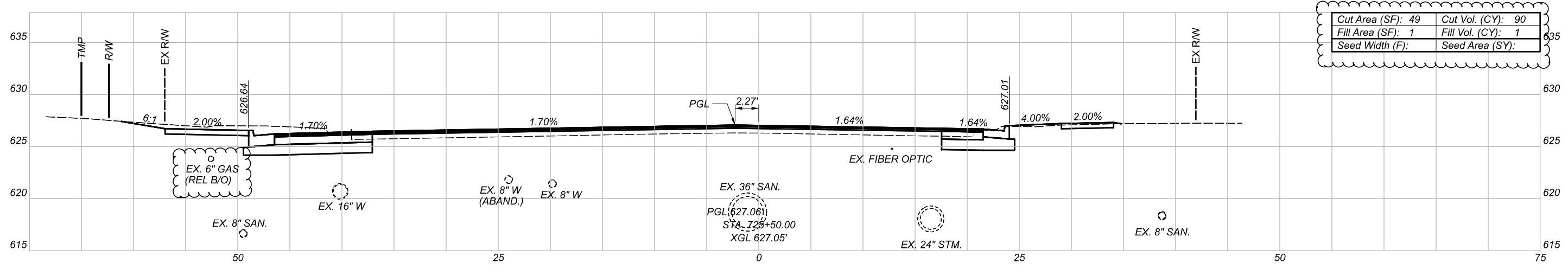
CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 723+00 TO STA. 724+00

DESIGN AGENCY

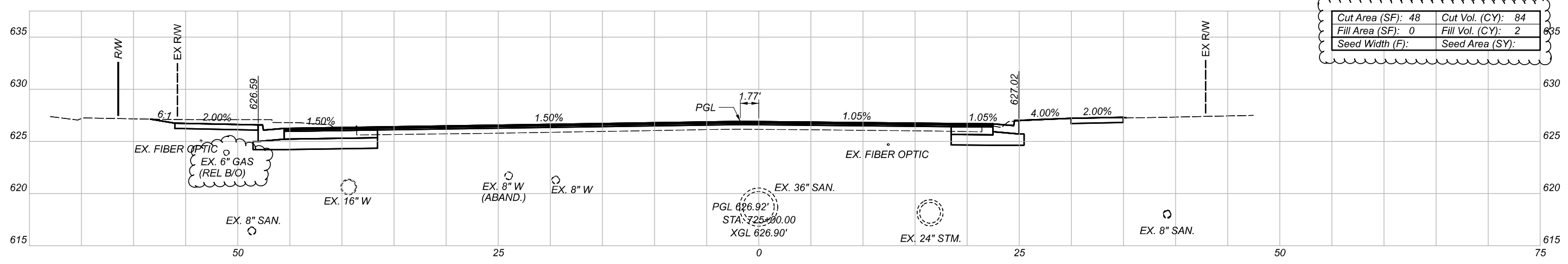
 DESIGNER
 AMD
 REVIEWER
 AJL 11/14/22

PROJECT ID: 108465

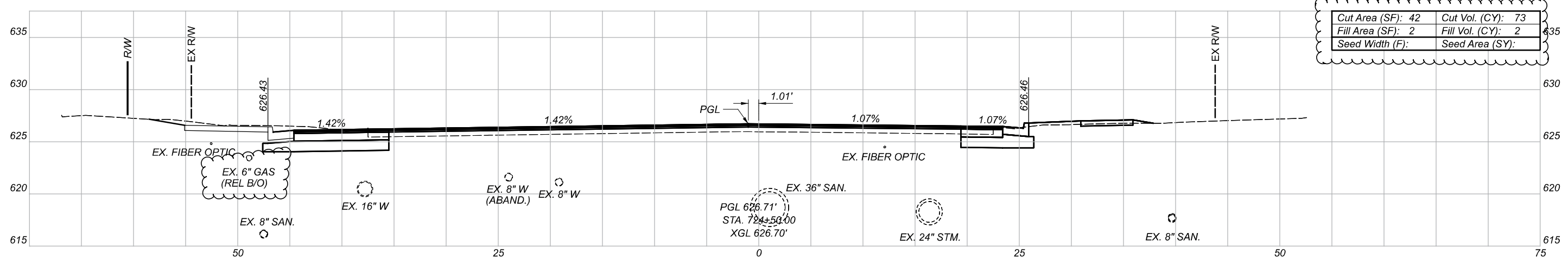
SHEET	TOTAL
2.74	181



Cut Area (SF): 49	Cut Vol. (CY): 90
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 48	Cut Vol. (CY): 84
Fill Area (SF): 0	Fill Vol. (CY): 2
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 42	Cut Vol. (CY): 73
Fill Area (SF): 2	Fill Vol. (CY): 2
Seed Width (F):	Seed Area (SY):

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 724+50 TO STA. 725+50

DESIGN AGENCY

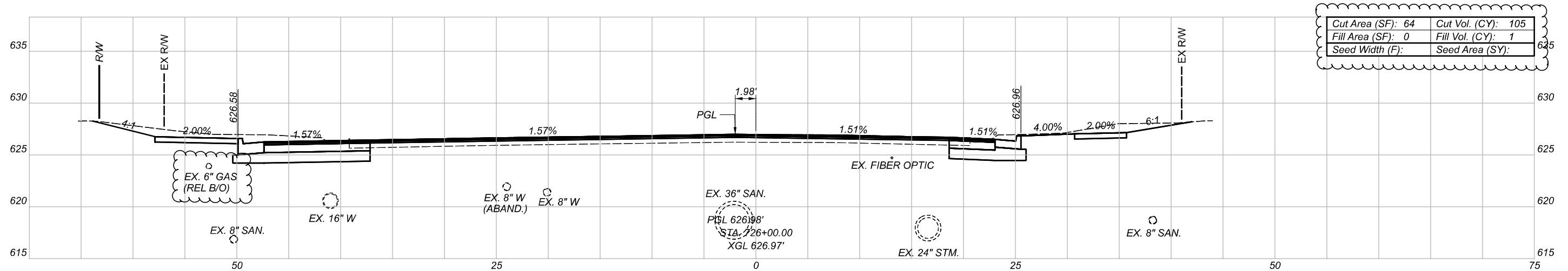
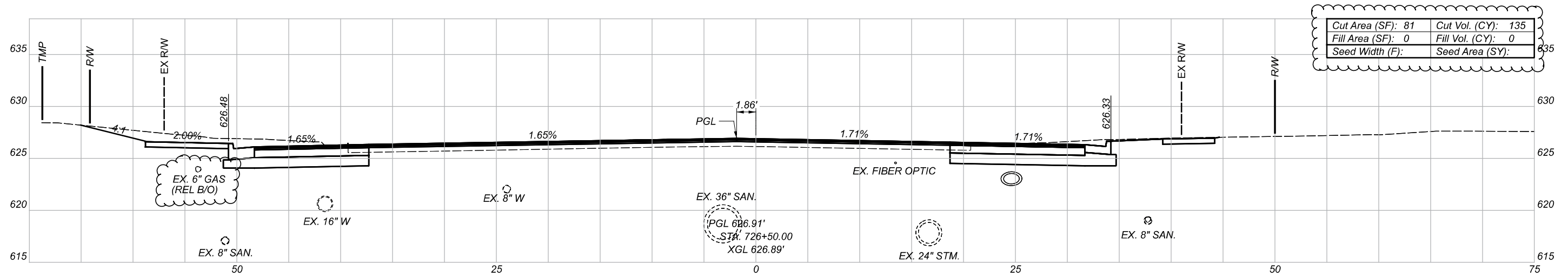
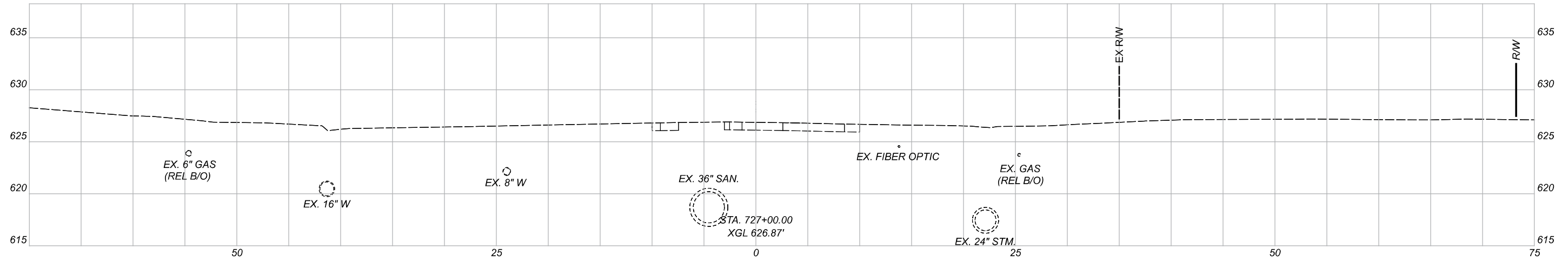


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 108465

Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
247	5	7.75	181



Cut Area (SF): 81	Cut Vol. (CY): 135
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

Cut Area (SF): 64	Cut Vol. (CY): 105
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (F):	Seed Area (SY):

Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
240	1		P.76 181

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 726+00 TO STA. 727+00

DESIGN AGENCY



DESIGNER

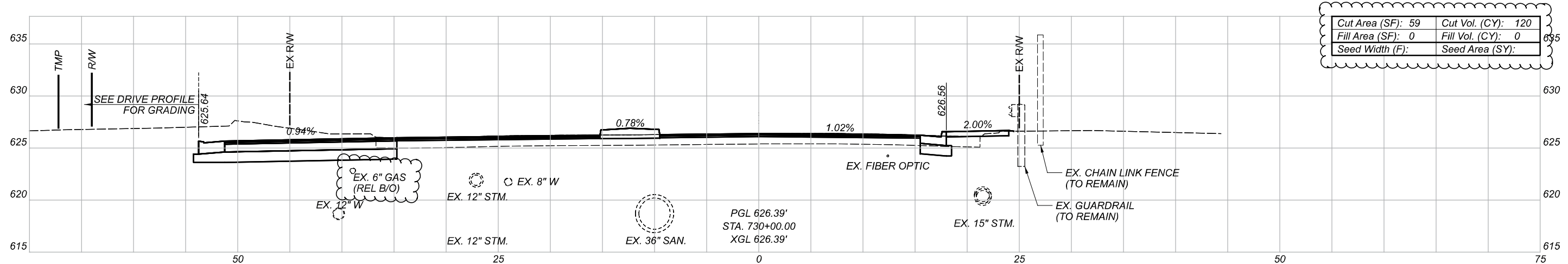
AMD

REVIEWER

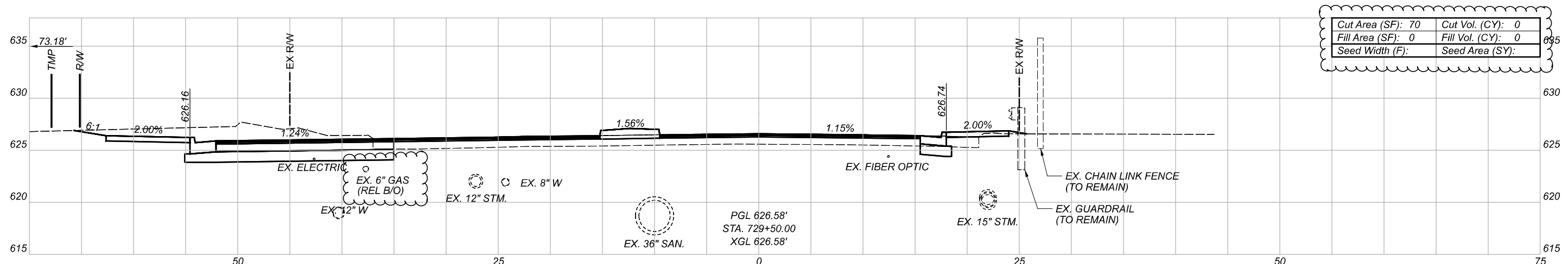
AJL 11/14/22

PROJECT ID

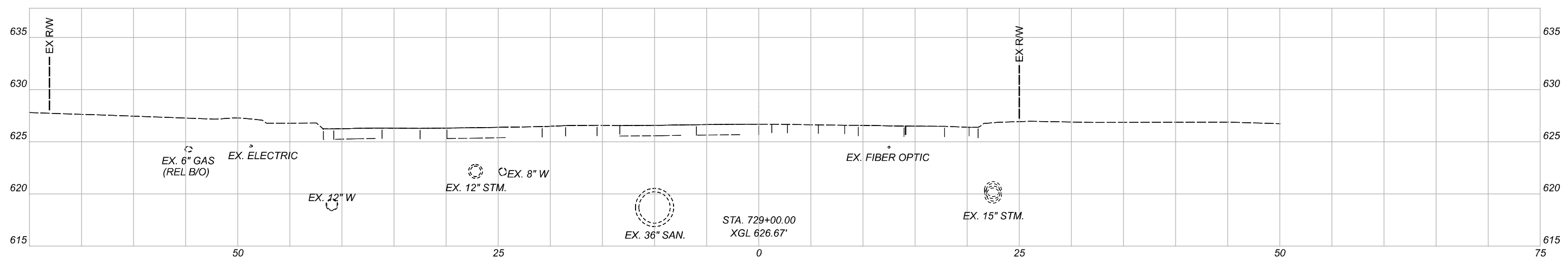
108465



Cut Area (SF): 59	Cut Vol. (CY): 120
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 70	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Sheet Totals		
Seeding	Cut	Fill
	120	0

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 729+00 TO STA. 730+00

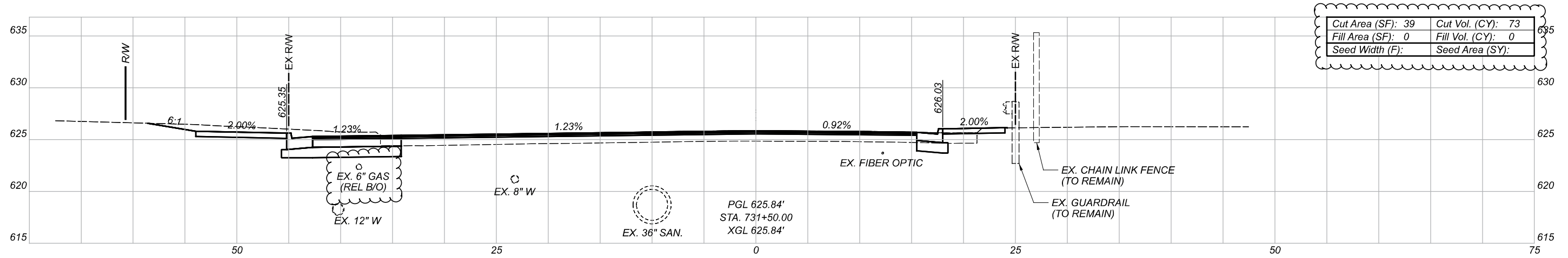


DESIGNER
 AMD

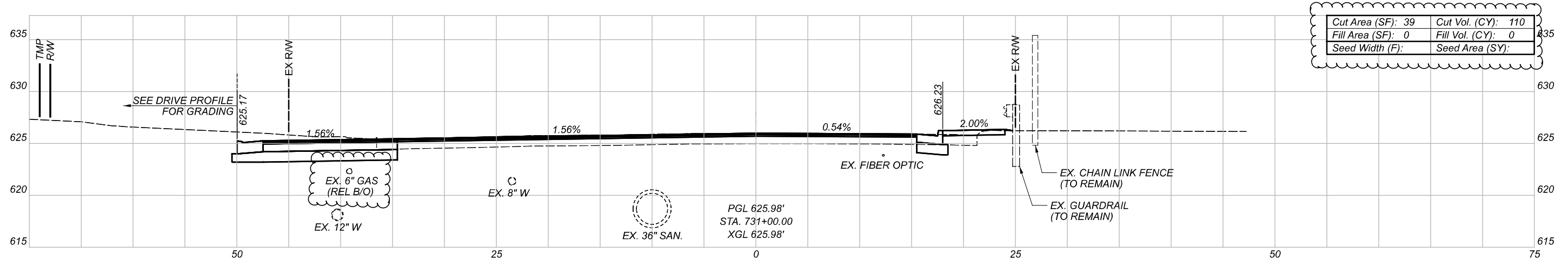
REVIEWER
 AJL 11/14/22

PROJECT ID
 108465

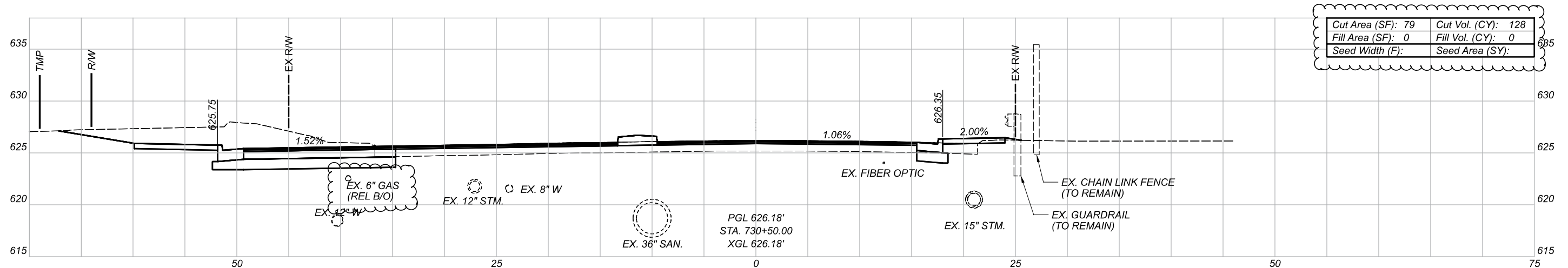
SHEET TOTAL
 P.78 181



Cut Area (SF): 39	Cut Vol. (CY): 73
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 39	Cut Vol. (CY): 110
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 79	Cut Vol. (CY): 128
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill
311	0	0

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 730+50 TO STA. 731+50

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

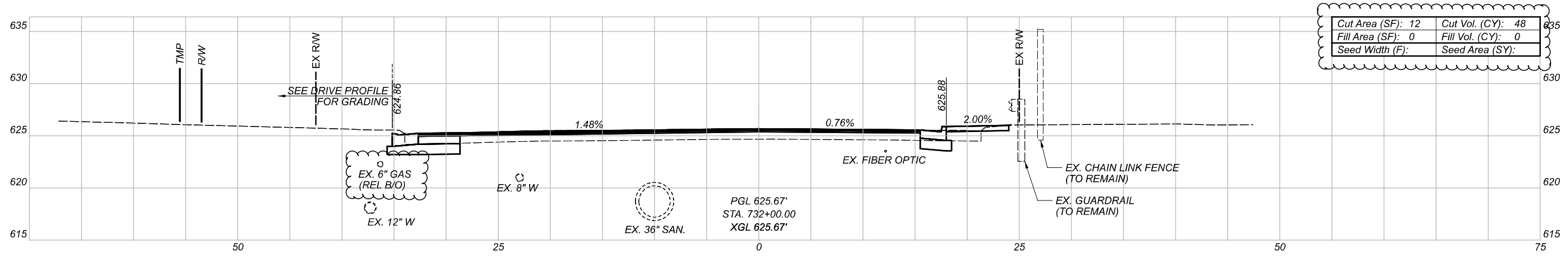
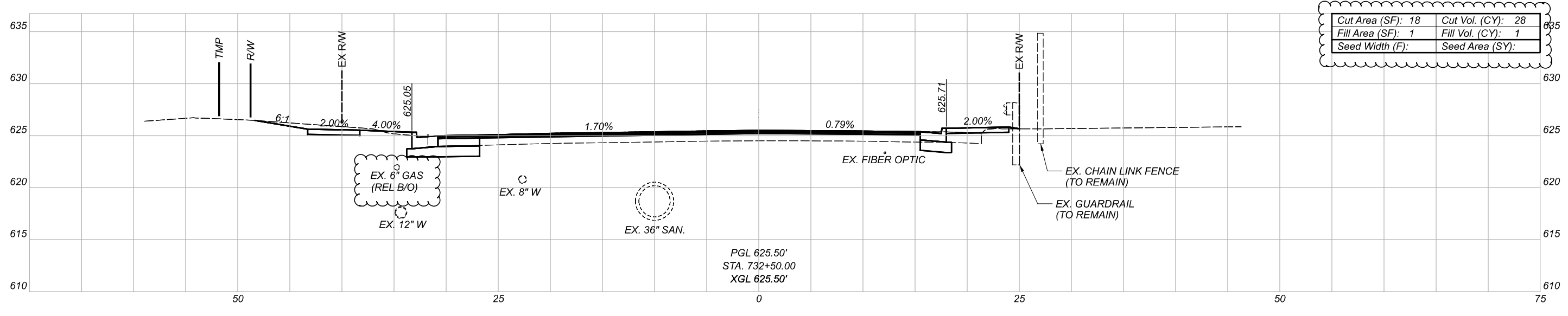
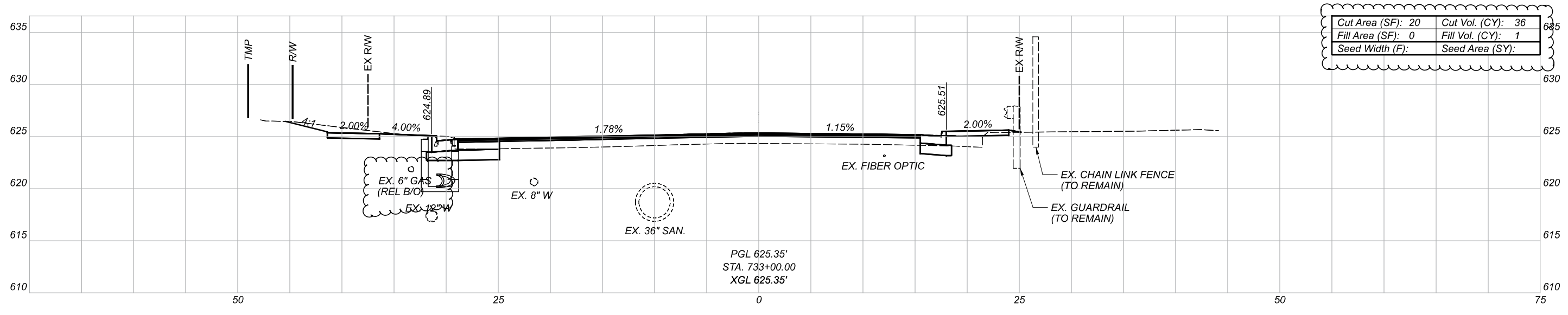
AJL 11/14/22

PROJECT ID

108465

SHEET TOTAL

P.79 181



Sheet Totals		
Seeding	Cut	Fill
112	2	

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 732+00 TO STA. 733+00

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

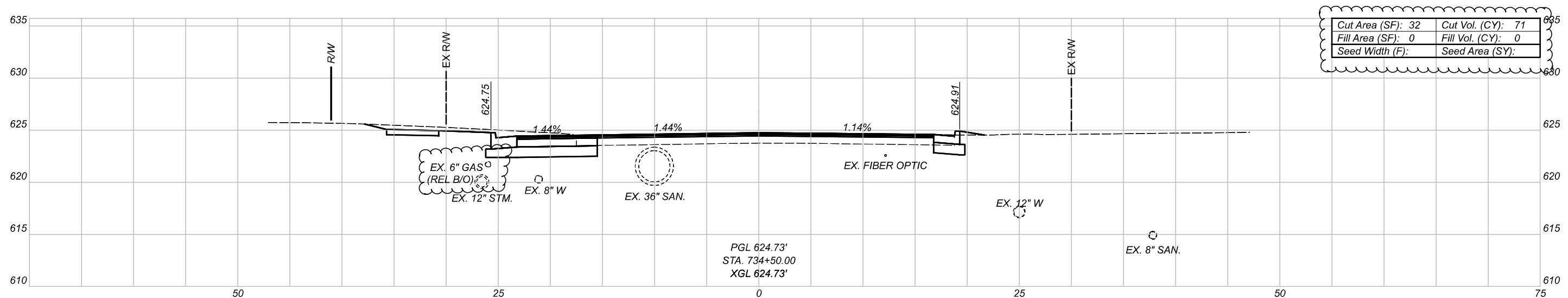
AJL 11/14/22

PROJECT ID

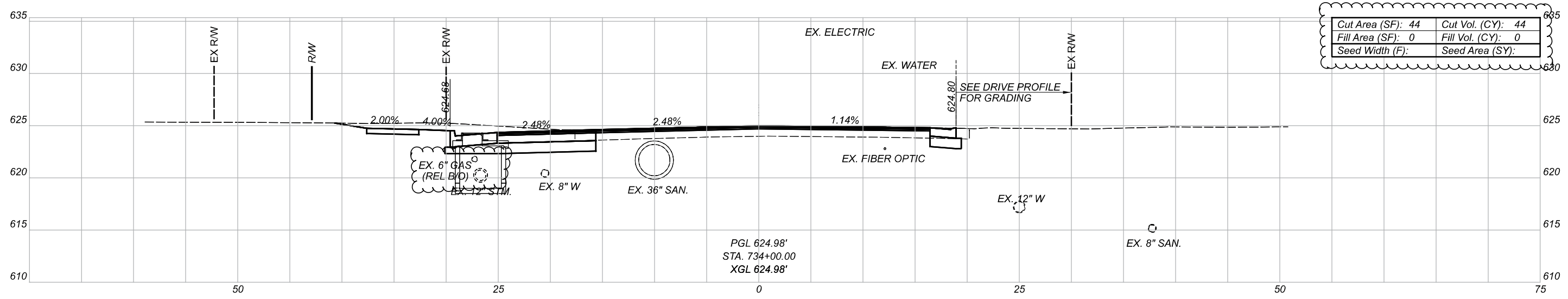
108465

SHEET TOTAL

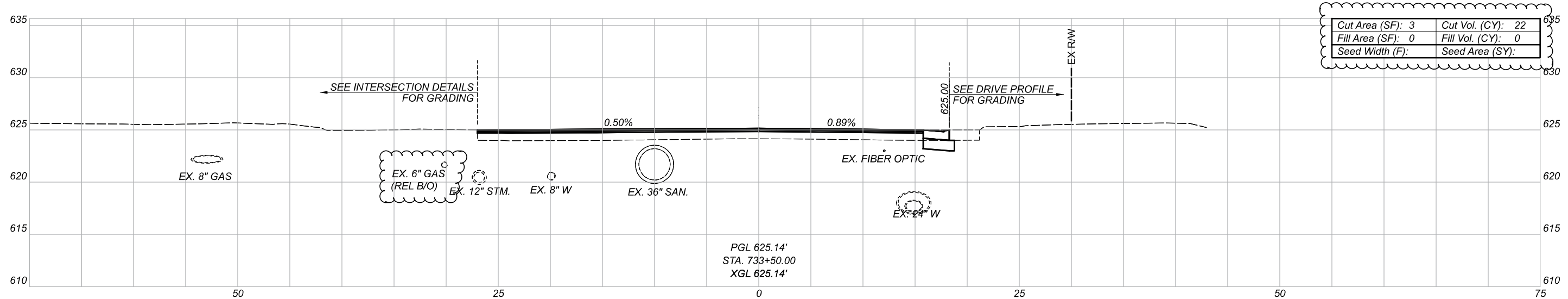
P.80 181



Cut Area (SF): 32	Cut Vol. (CY): 71
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):




Cut Area (SF): 44	Cut Vol. (CY): 44
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

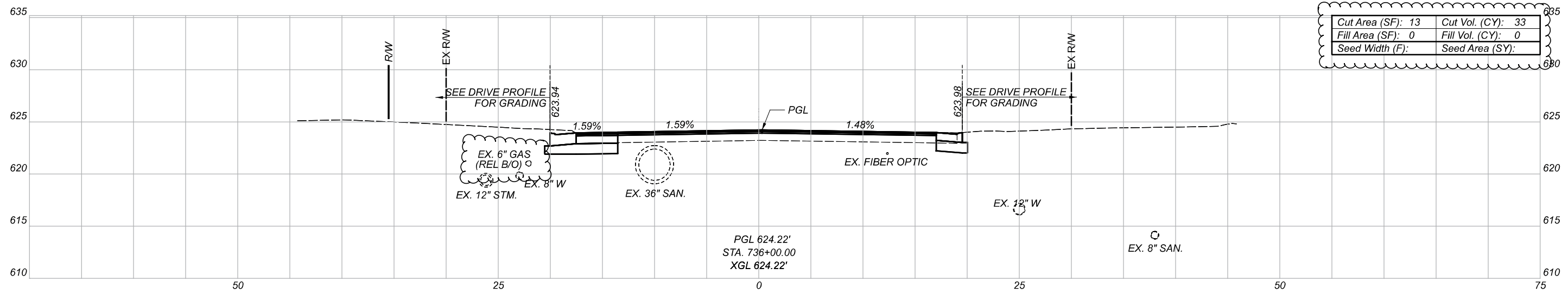


Cut Area (SF): 3	Cut Vol. (CY): 22
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

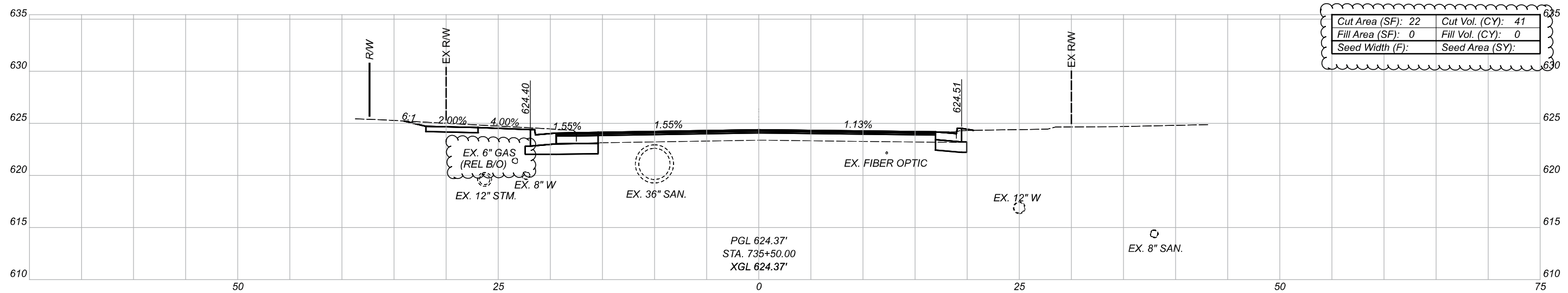
Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
137	0	2.81	181

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 733+50 TO STA. 734+50

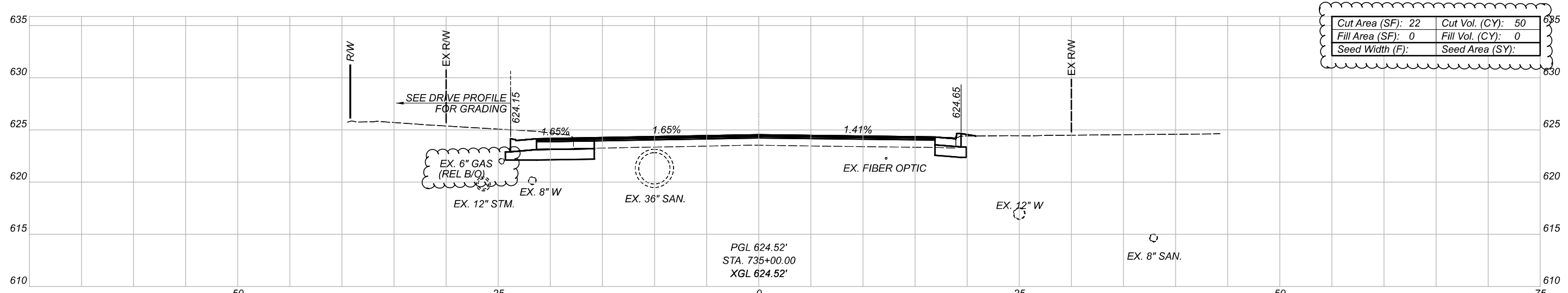
DESIGN AGENCY

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Cut Area (SF): 13	Cut Vol. (CY): 33
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 22	Cut Vol. (CY): 41
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):



Cut Area (SF): 22	Cut Vol. (CY): 50
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

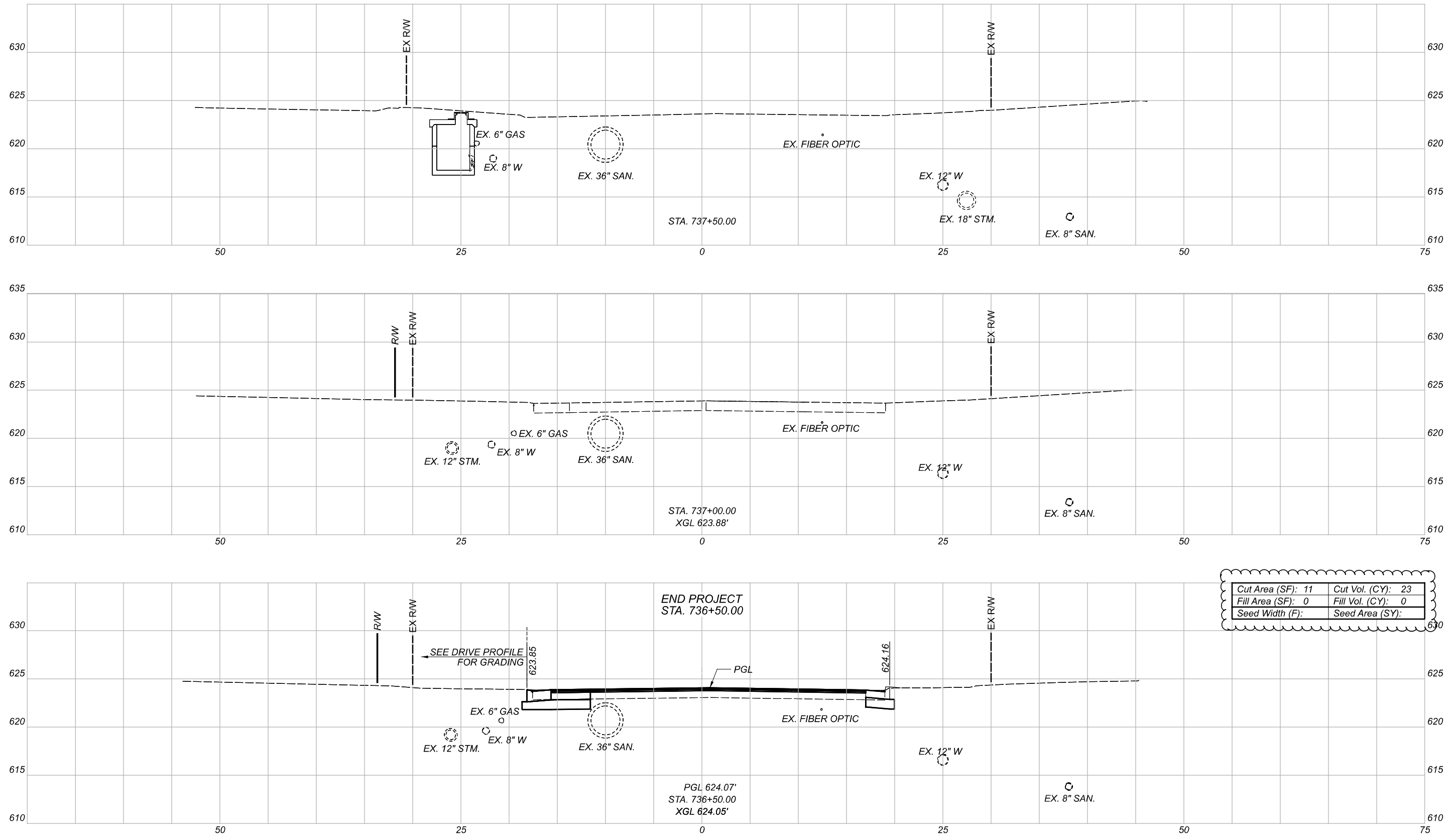
Sheet Totals		
Seeding	Cut	Fill
124	0	0

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 735+00 TO STA. 736+00



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 SHEET TOTAL
 2.82 181



Cut Area (SF): 11	Cut Vol. (CY): 23
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (F):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill
23	0	0

CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 736+50 TO STA. 737+50

DESIGN AGENCY



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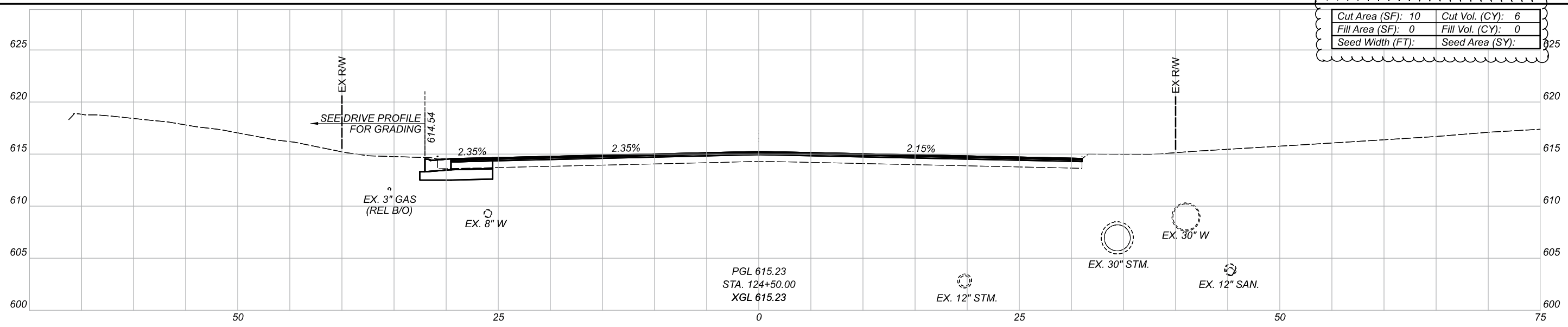
AJL 11/14/22

PROJECT ID

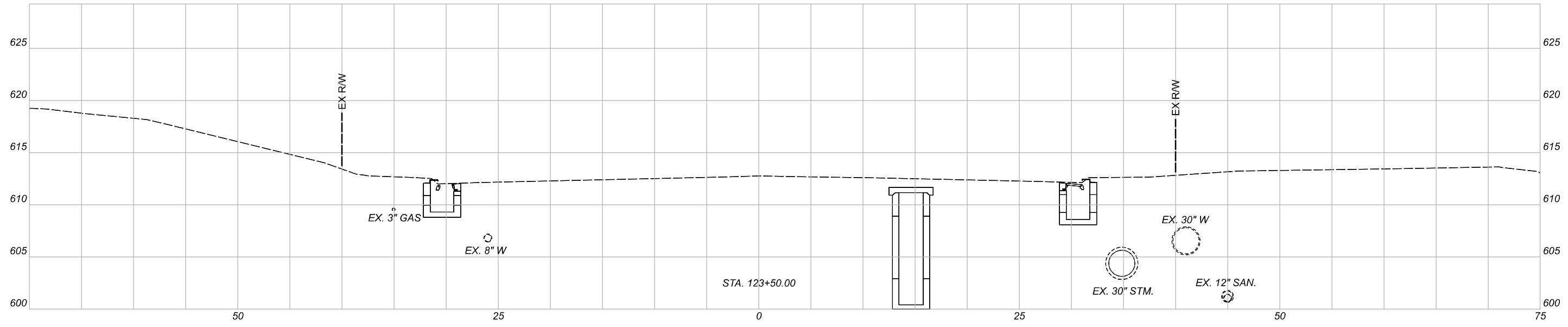
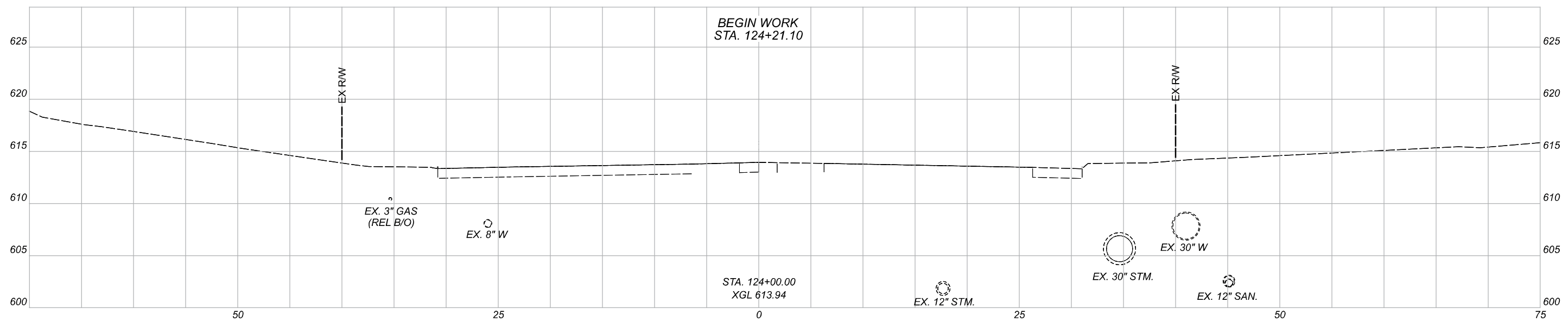
108465

SHEET TOTAL

2.83 181



Cut Area (SF): 10	Cut Vol. (CY): 6
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



CROSS SECTIONS - BYRNE ROAD
 STA. 123+50 TO STA. 124+50

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

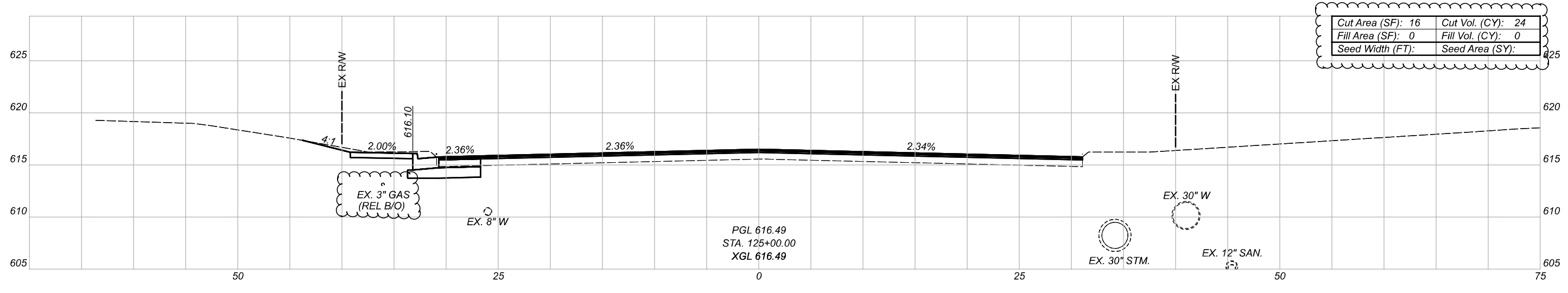
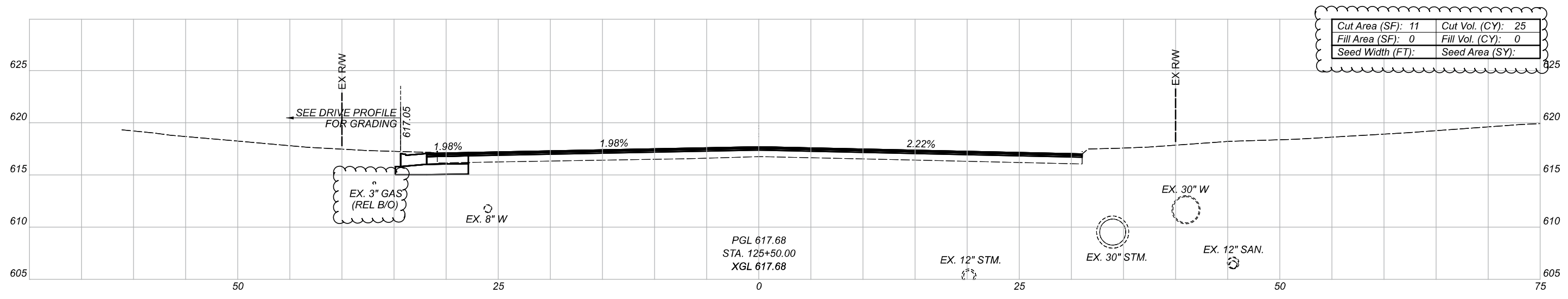
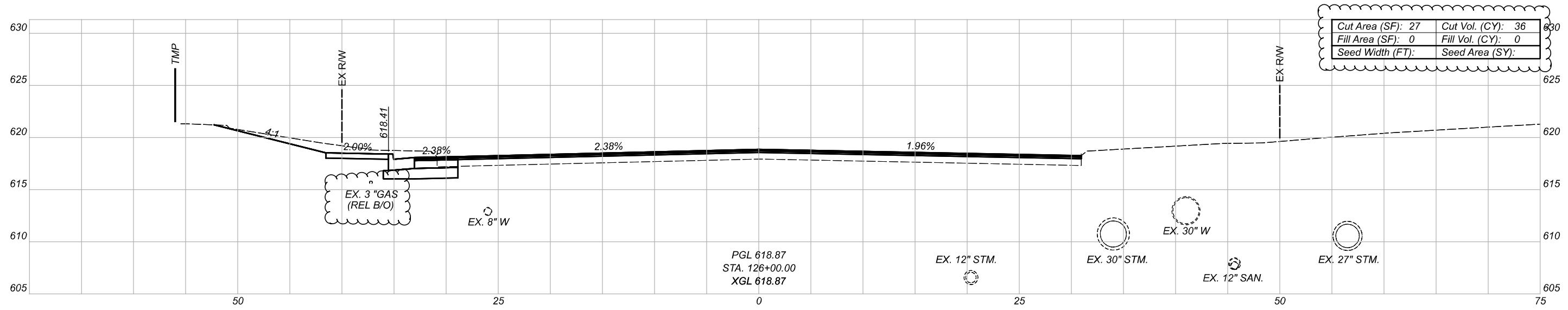
AJL 11/14/22

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108465

Sheet Totals		
Seeding	Cut	Fill
6	0	0

SHEET	TOTAL
P.87	181



CROSS SECTIONS - BYRNE ROAD
 STA. 125+00 TO STA. 126+00

DESIGN AGENCY



DESIGNER

AMD

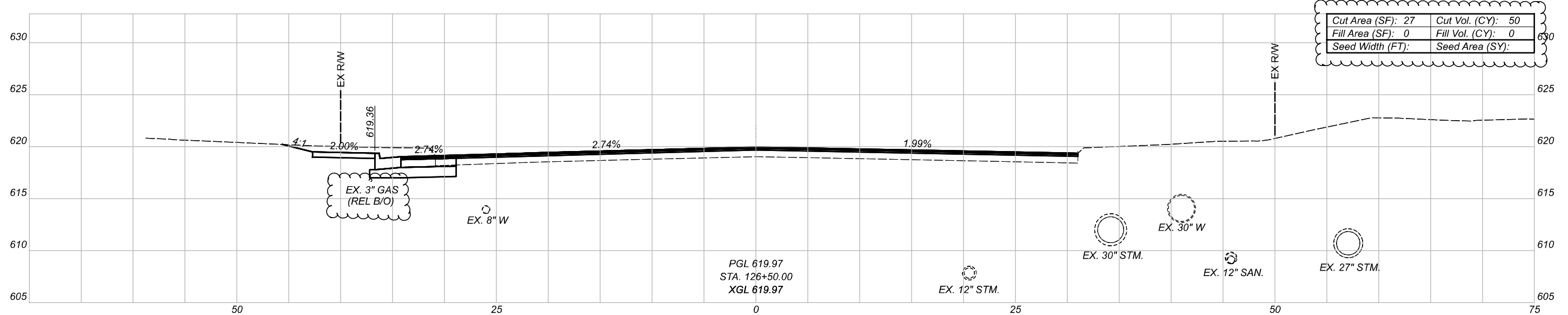
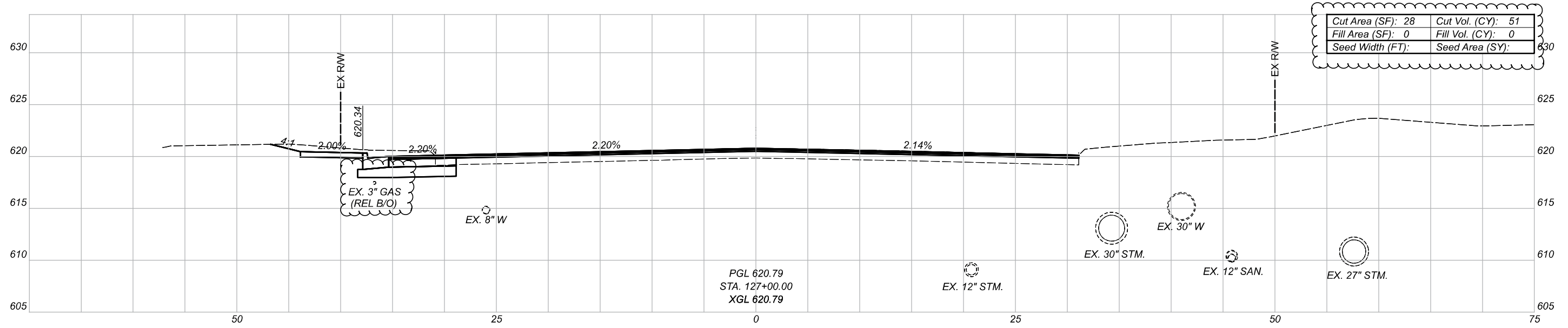
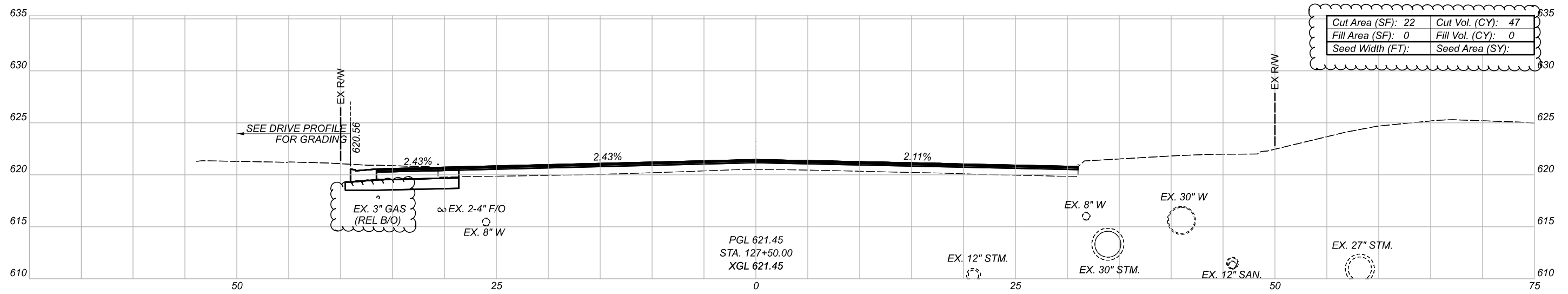
REVIEWER

AJL 11/14/22

PROJECT ID

108465

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
85	0	0	2.88	181



Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
148	0	0	2.89 181

CROSS SECTIONS - BYRNE ROAD
STA. 126+50 TO STA. 127+50

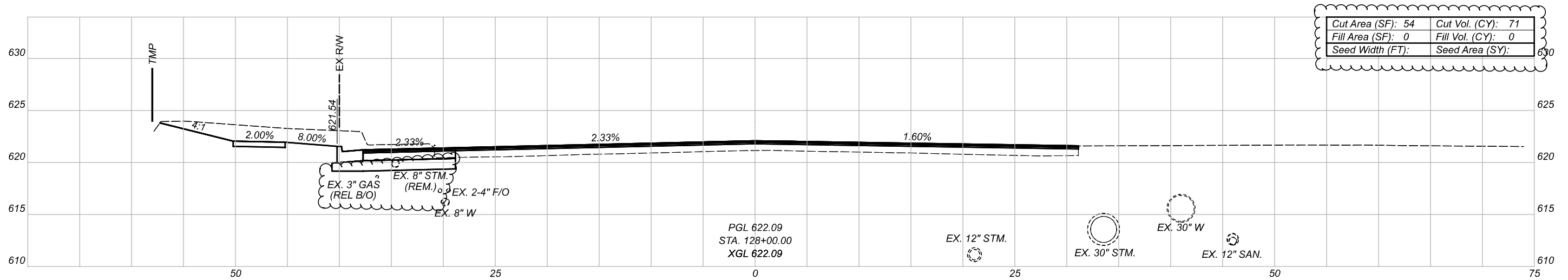
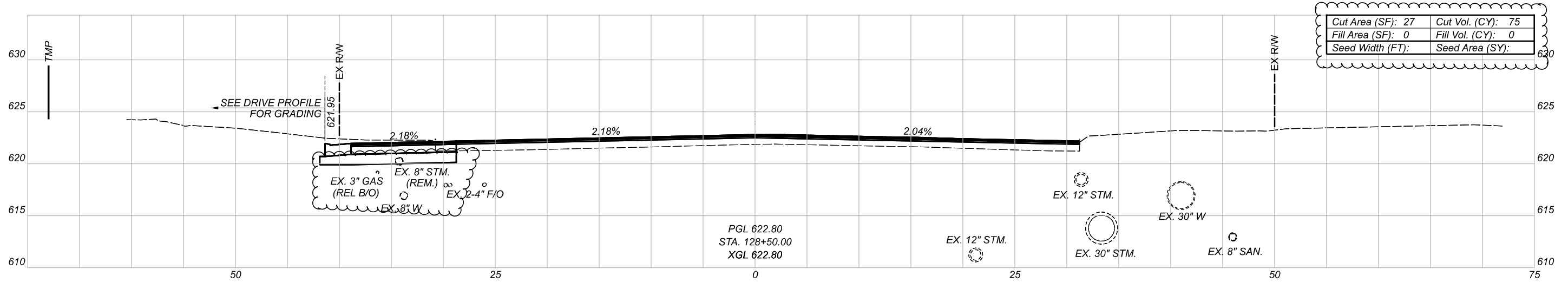
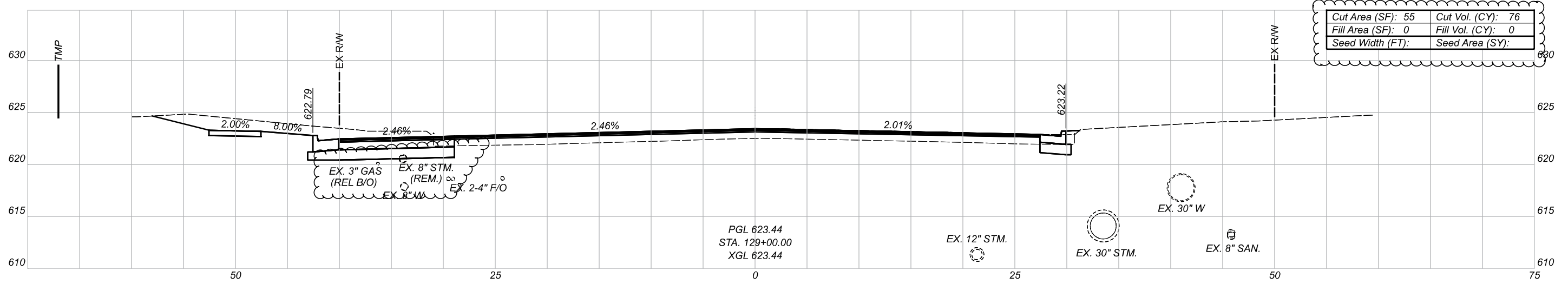
DESIGN AGENCY



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CROSS SECTIONS - BYRNE ROAD
 STA. 128+00 TO STA. 129+00

DESIGN AGENCY



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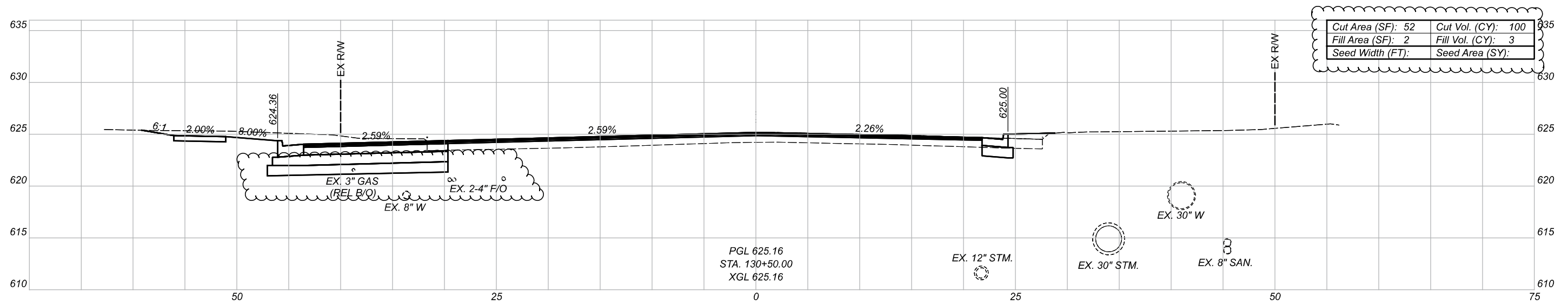
SHEET

P.90

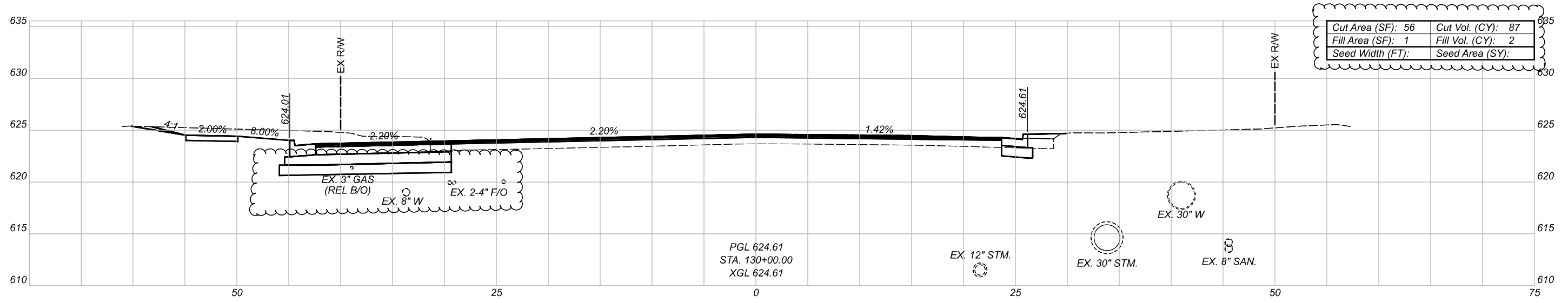
TOTAL

181

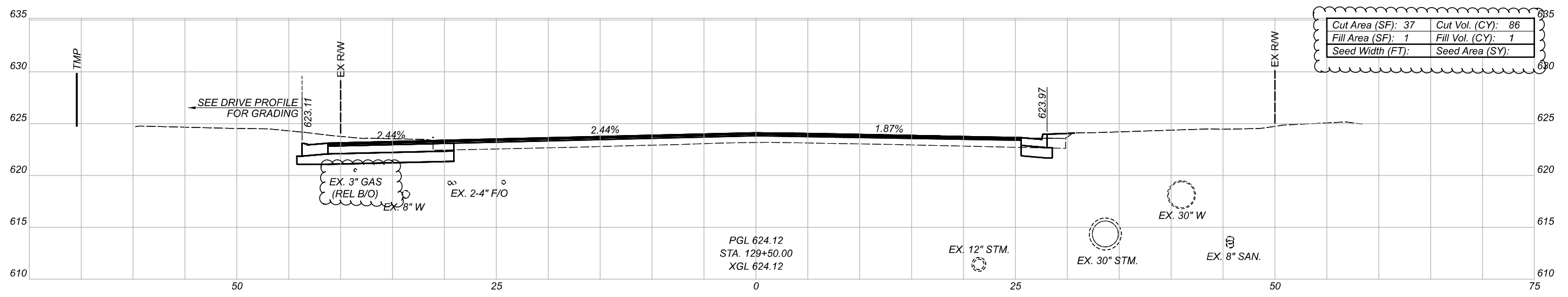
Sheet Totals		
Seeding	Cut	Fill
222	0	0



Cut Area (SF): 52	Cut Vol. (CY): 100
Fill Area (SF): 2	Fill Vol. (CY): 3
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 56	Cut Vol. (CY): 87
Fill Area (SF): 1	Fill Vol. (CY): 2
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 37	Cut Vol. (CY): 86
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - BYRNE ROAD
 STA. 129+50 TO STA. 130+50

DESIGN AGENCY



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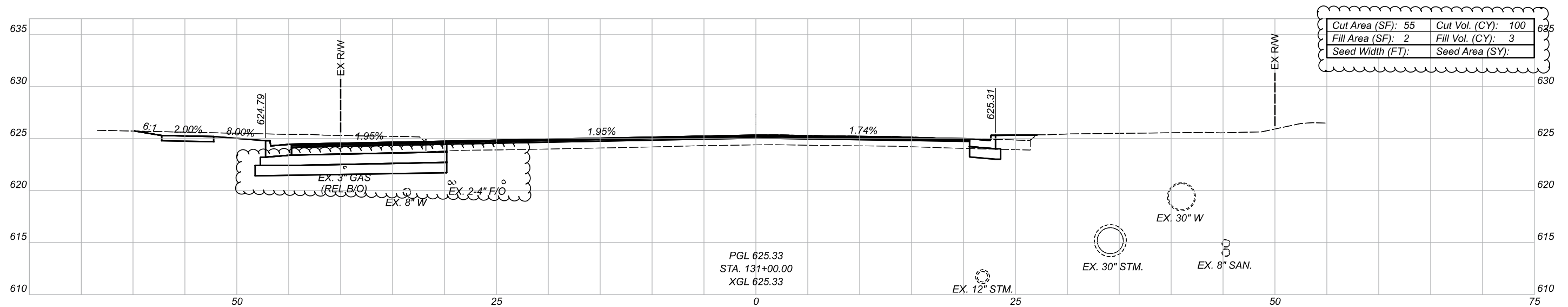
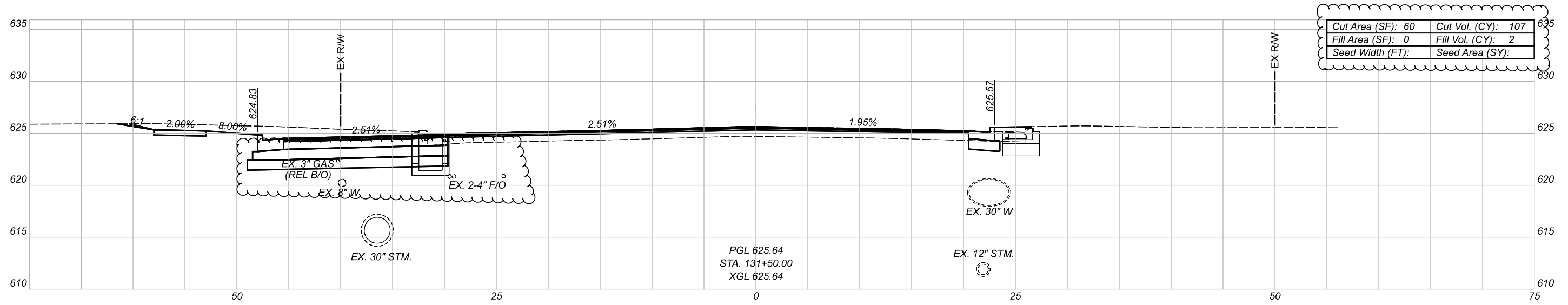
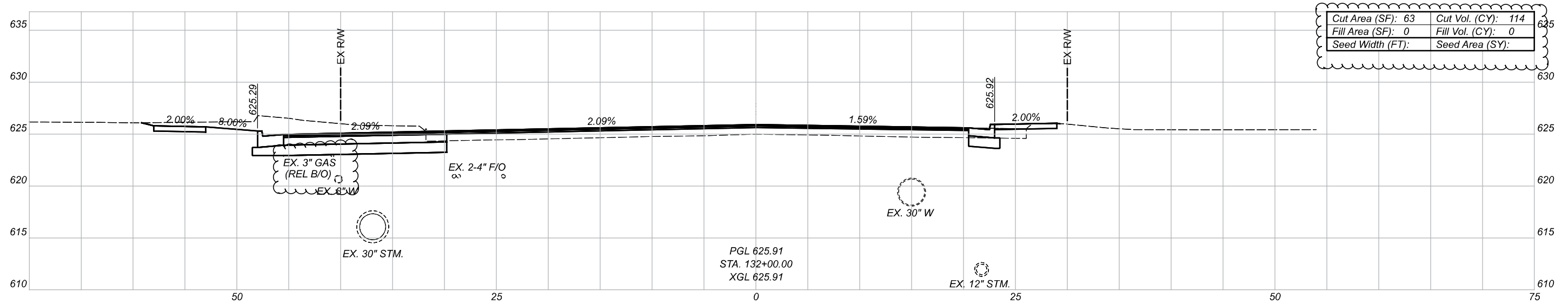
PROJECT ID

108465

SHEET TOTAL

P.91 181

Sheet Totals		
Seeding	Cut	Fill
273	6	



CROSS SECTIONS - BYRNE ROAD
 STA. 131+00 TO STA. 132+00

DESIGN AGENCY



DESIGNER

AMD

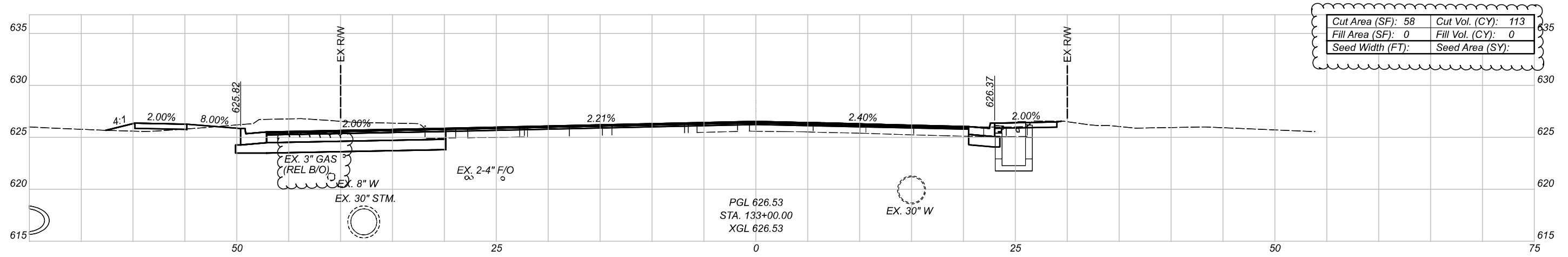
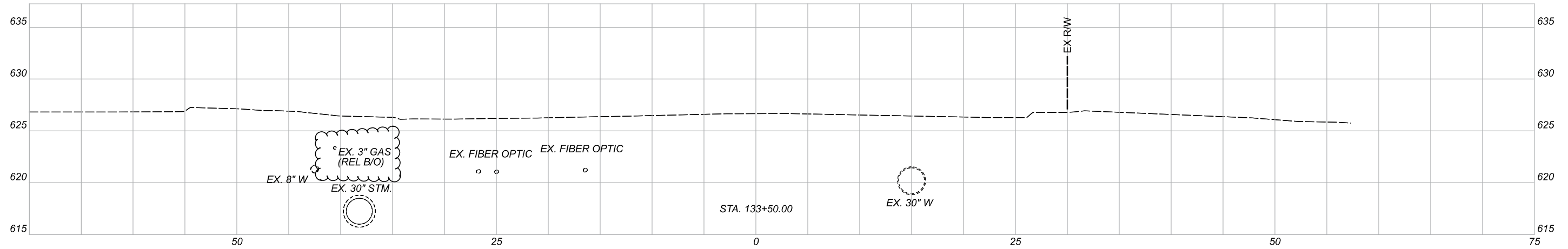
REVIEWER

AJL 11/14/22

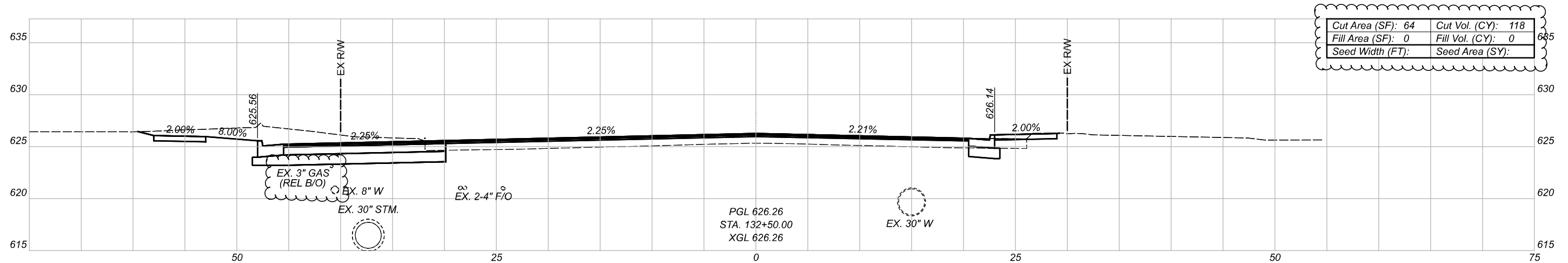
PROJECT ID

108465

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
	327	5	9.92	181



Cut Area (SF): 58	Cut Vol. (CY): 113
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 64	Cut Vol. (CY): 118
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS - BYRNE ROAD
 STA. 132+50 TO STA. 133+50

DESIGN AGENCY



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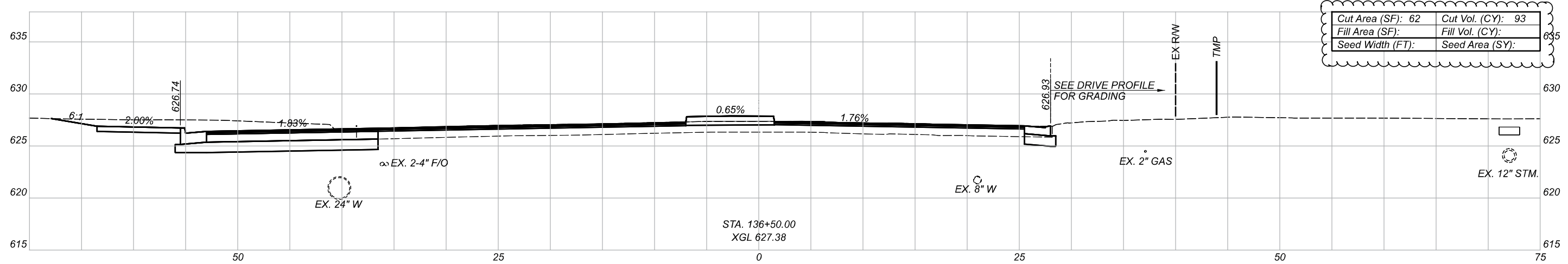
PROJECT ID

108465

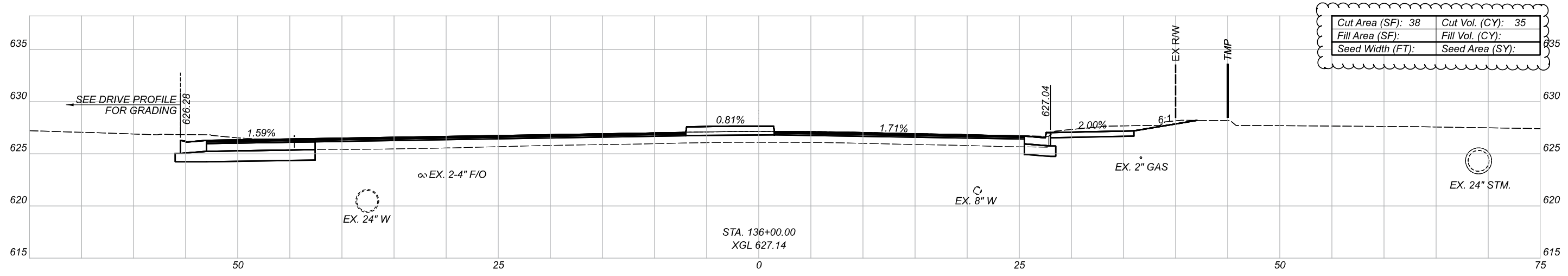
SHEET TOTAL

P.93 181

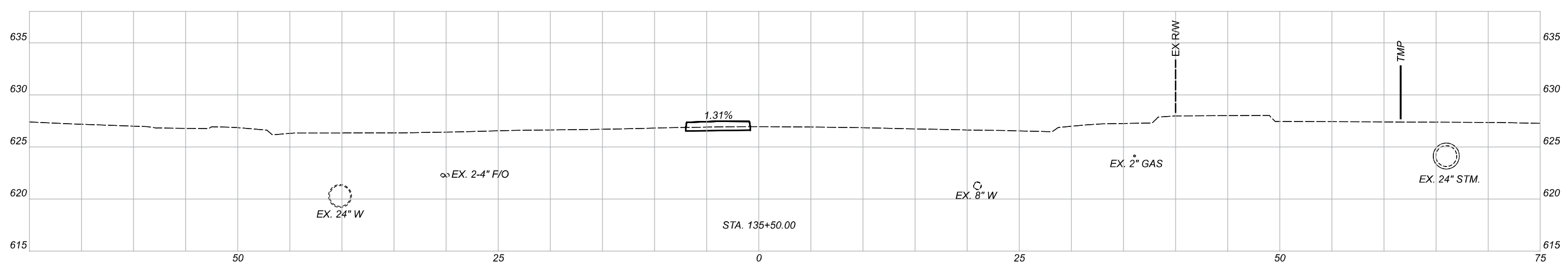
Sheet Totals		
Seeding	Cut	Fill
231	0	0



Cut Area (SF): 62	Cut Vol. (CY): 93
Fill Area (SF):	Fill Vol. (CY):
Seed Width (FT):	Seed Area (SY):




Cut Area (SF): 38	Cut Vol. (CY): 35
Fill Area (SF):	Fill Vol. (CY):
Seed Width (FT):	Seed Area (SY):

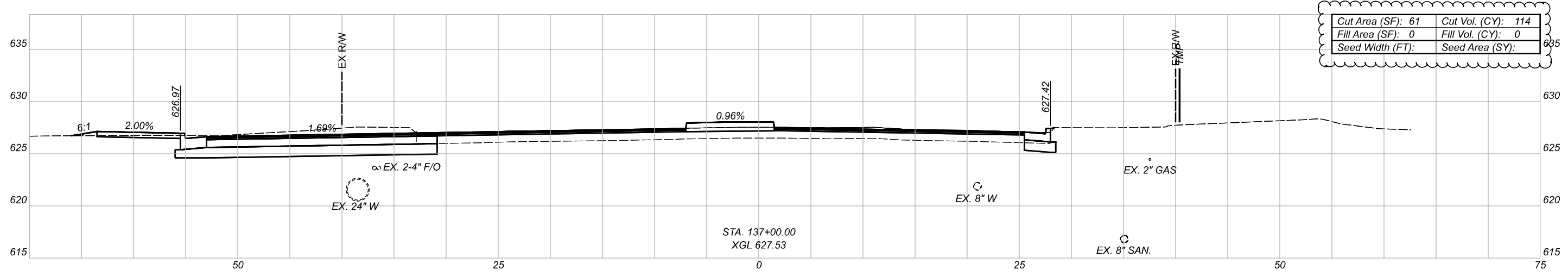
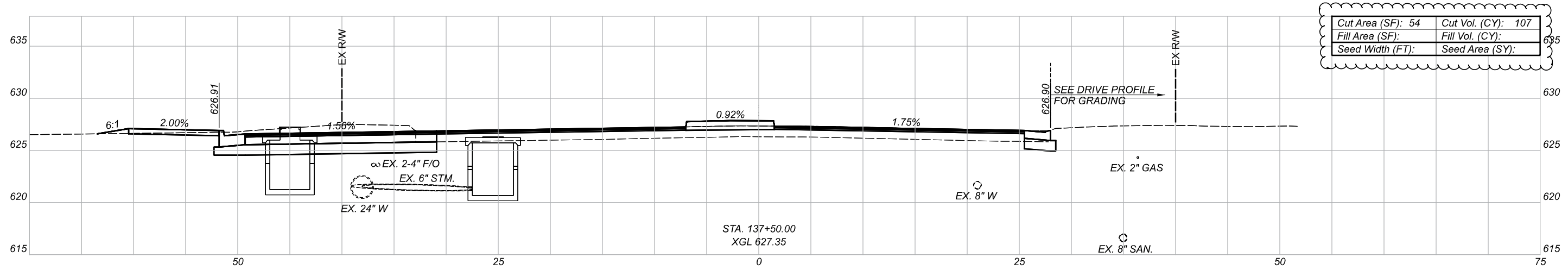
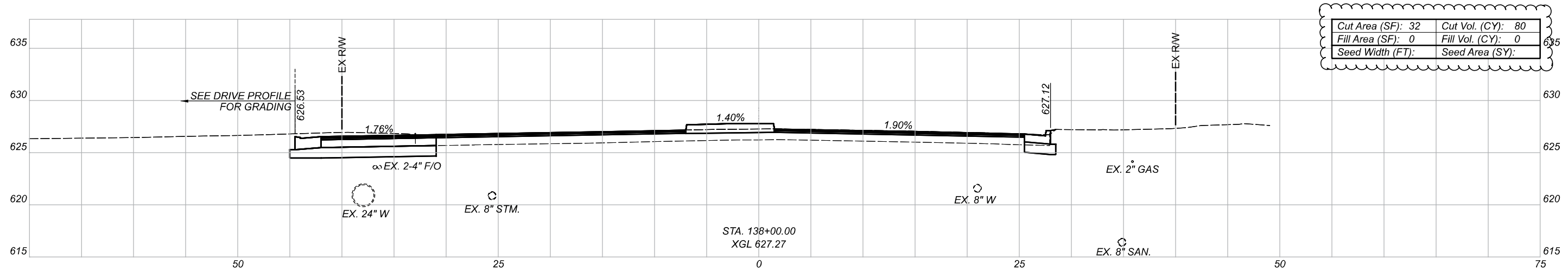


Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
128	0	0	P.95 181

CROSS SECTIONS - BYRNE ROAD
 STA. 135+50 TO STA. 136+50

DESIGN AGENCY

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PROJECT ID
 108465
 SHEET TOTAL
 P.95 | 181



CROSS SECTIONS - BYRNE ROAD
 STA. 137+00 TO STA. 138+00

DESIGN AGENCY



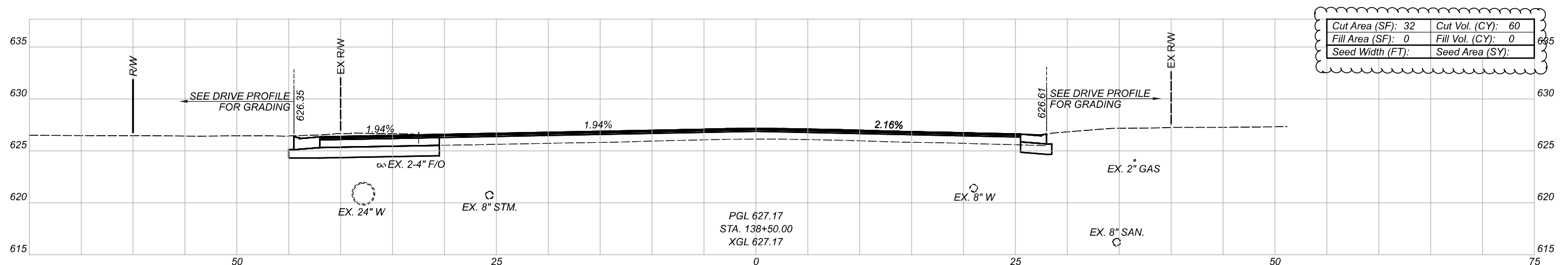
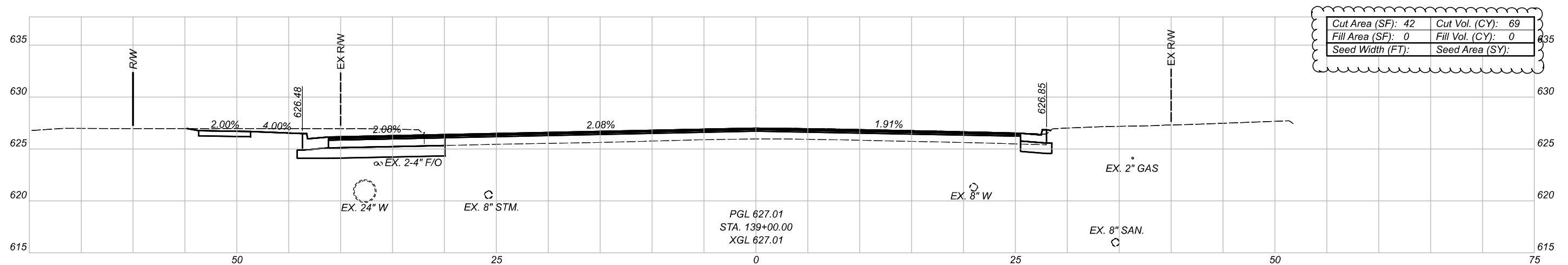
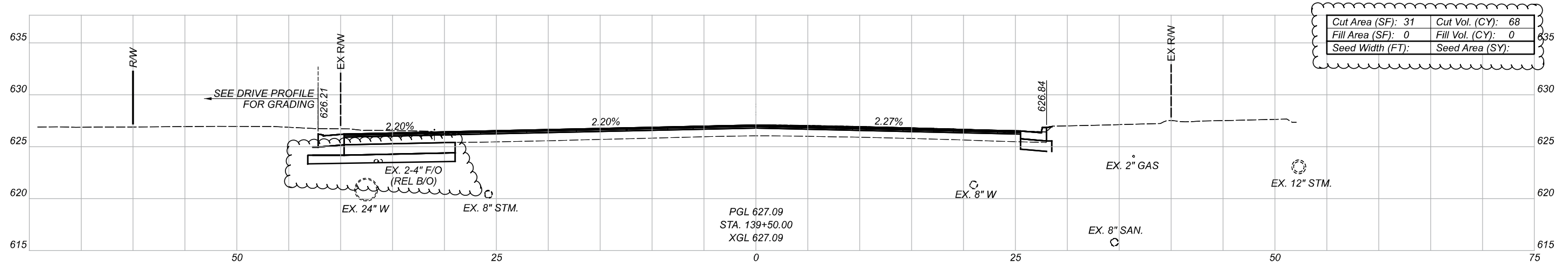
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Sheet Totals		
Seeding	Cut	Fill
301	3	

SHEET	TOTAL
P.96	181



CROSS SECTIONS - BYRNE ROAD
 STA. 138+50 TO STA. 139+50

DESIGN AGENCY



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PROJECT ID

108465

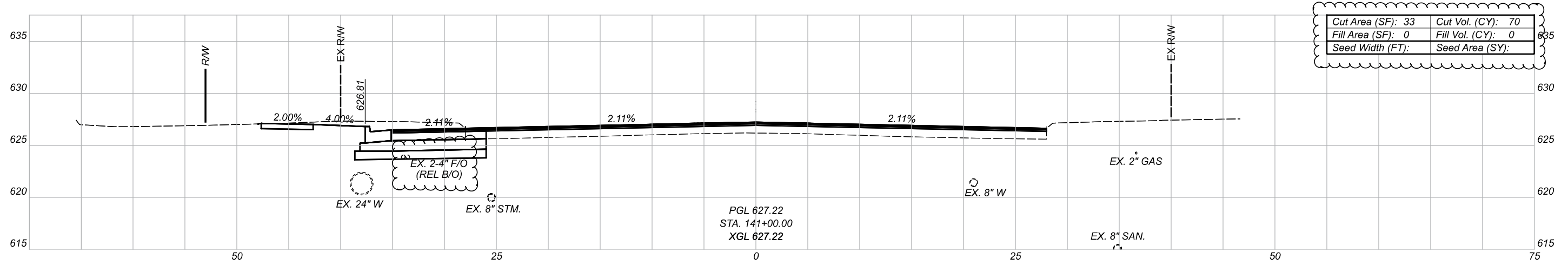
SHEET

2.97

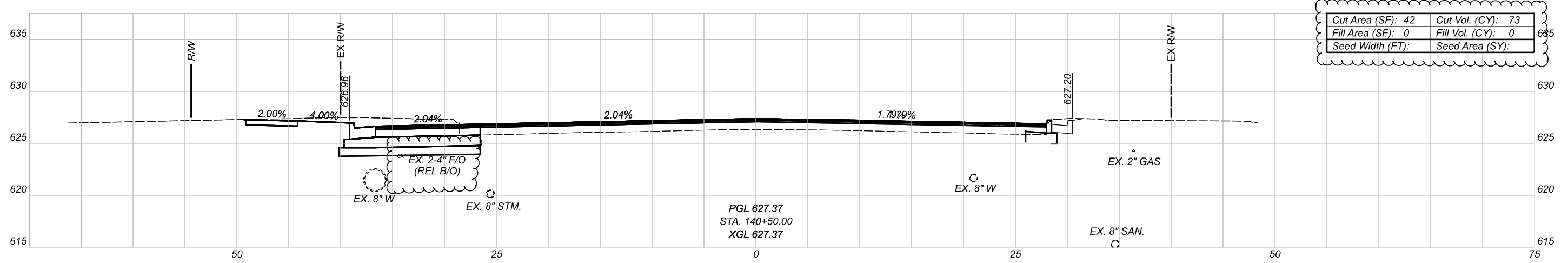
TOTAL

181

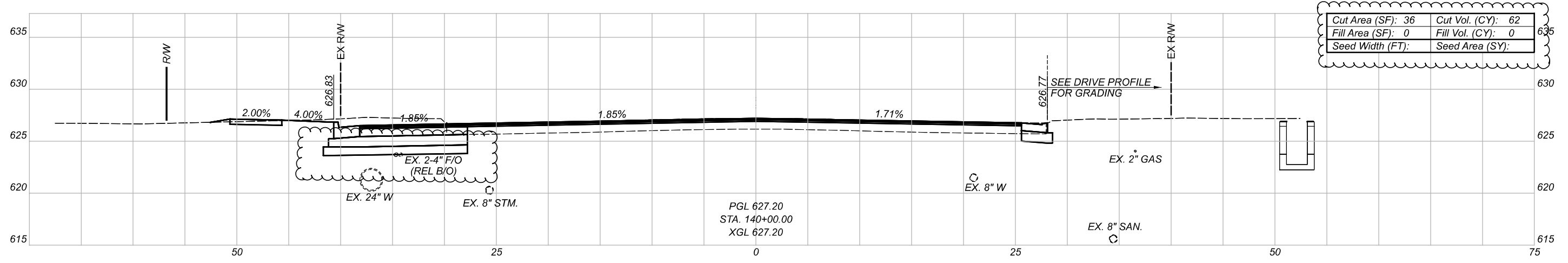
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Seed Width (FT):	Seed Area (SY):



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Seed Width (FT):	Seed Area (SY):



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CROSS SECTIONS - BYRNE ROAD
 STA. 140+00 TO STA. 141+00

DESIGN AGENCY

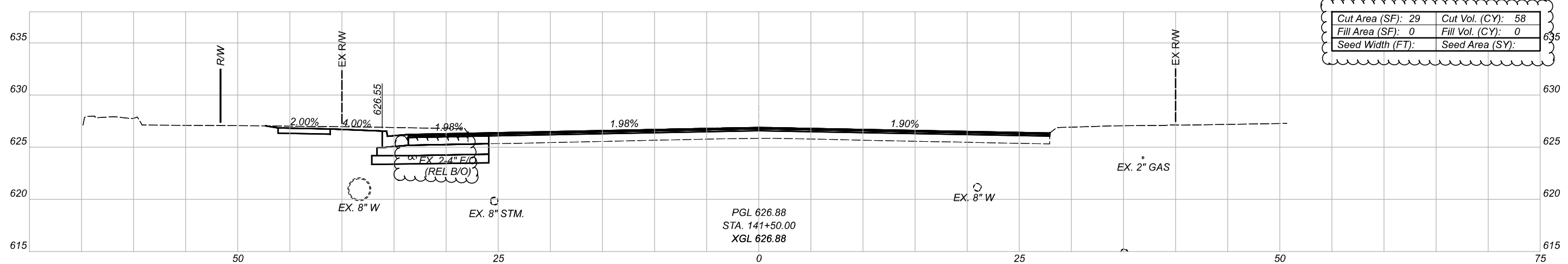
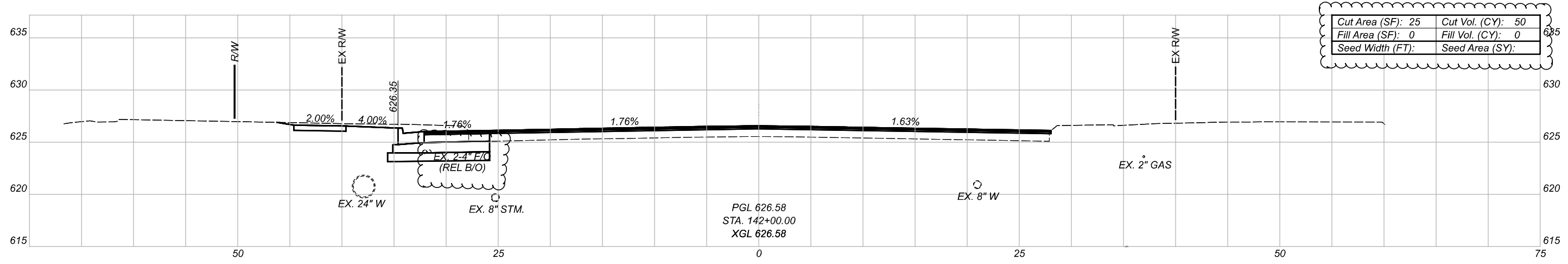
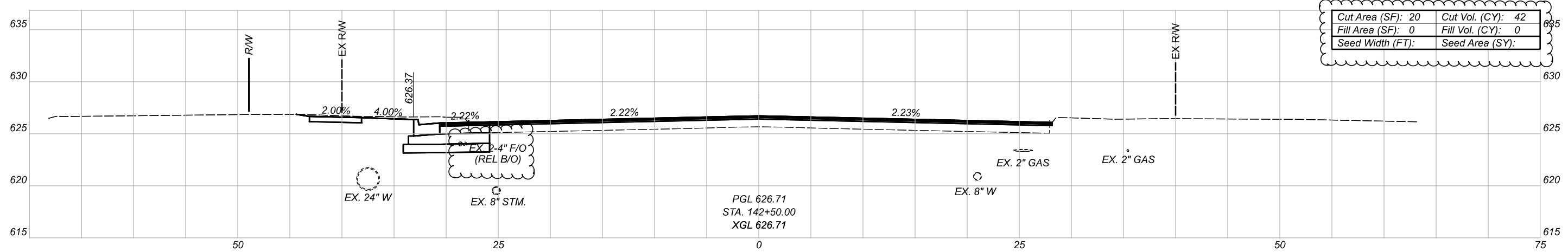


DESIGNER
 AMD

REVIEWER
 AJL 11/14/22

PROJECT ID
 108465

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Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
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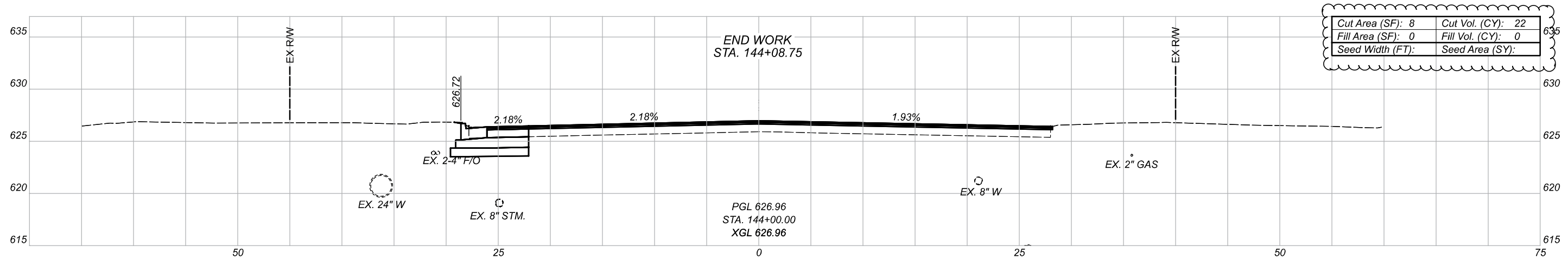
CROSS SECTIONS - BYRNE ROAD
 STA. 141+50 TO STA. 142+50

DESIGN AGENCY

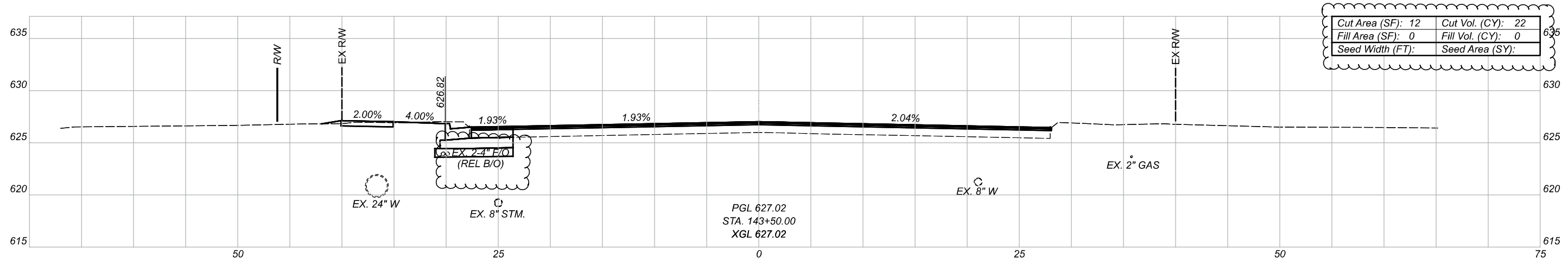
DESIGNER
 AMD

REVIEWER
 AJL 11/14/22

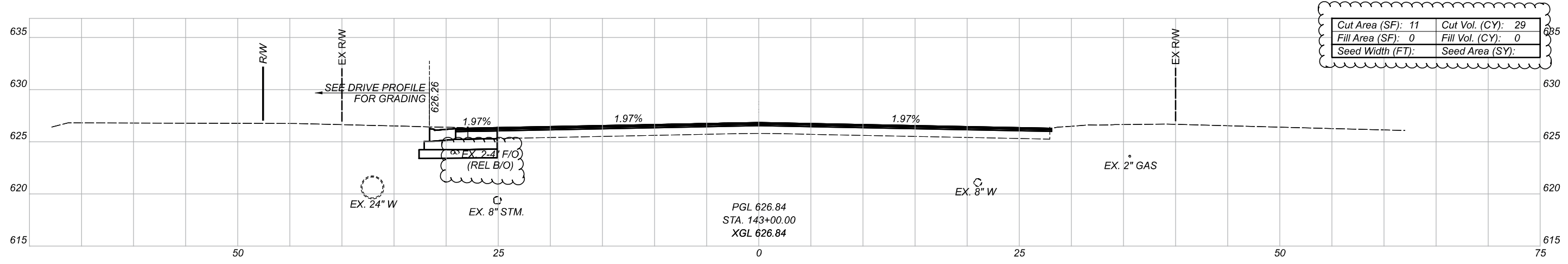
PROJECT ID
 108465



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Seed Width (FT):	Seed Area (SY):



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Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 11	Cut Vol. (CY): 29
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Seed Width (FT):	Seed Area (SY):

Sheet Totals			
Seeding	Cut	Fill	SHEET TOTAL
69	0	0	P.100 181

CROSS SECTIONS - BYRNE ROAD
 STA. 143+00 TO STA. 144+00

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

AJL 11/14/22

PROJECT ID

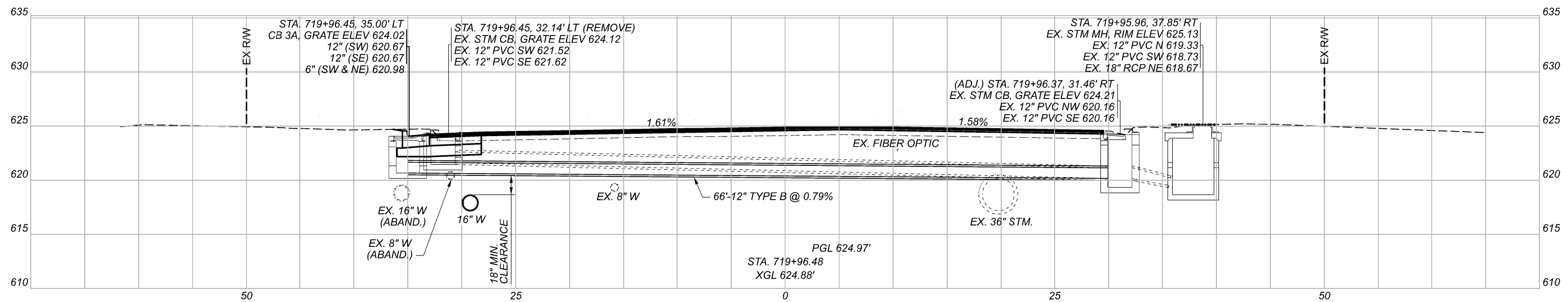
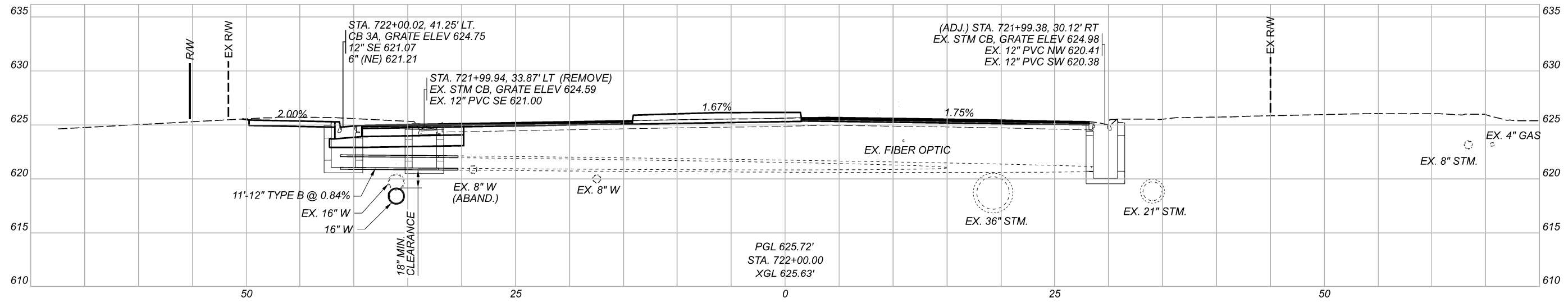
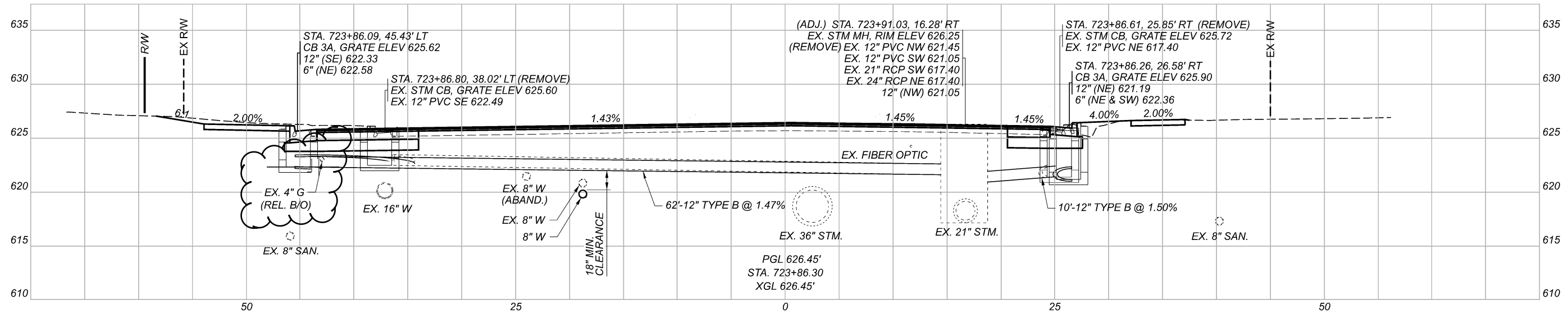
108465

SHEET

P.100

TOTAL

181



DRAINAGE CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 719+50.16 TO STA. 723+86.30

DESIGN AGENCY



DESIGNER

AMD

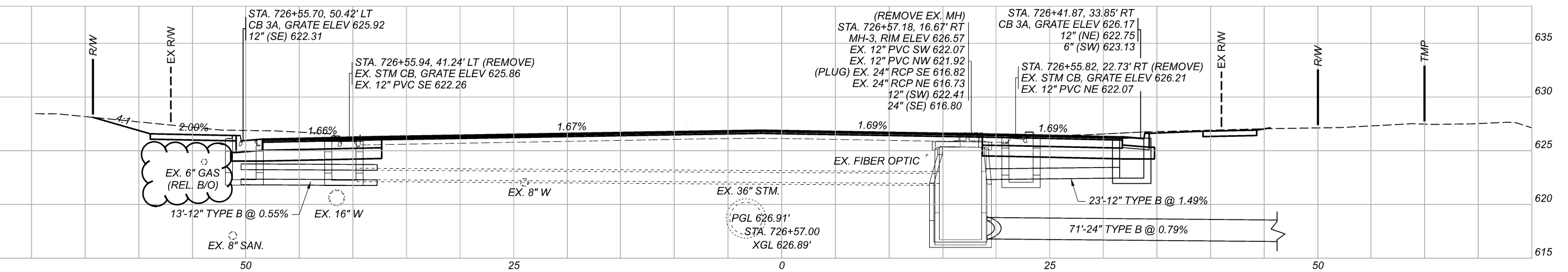
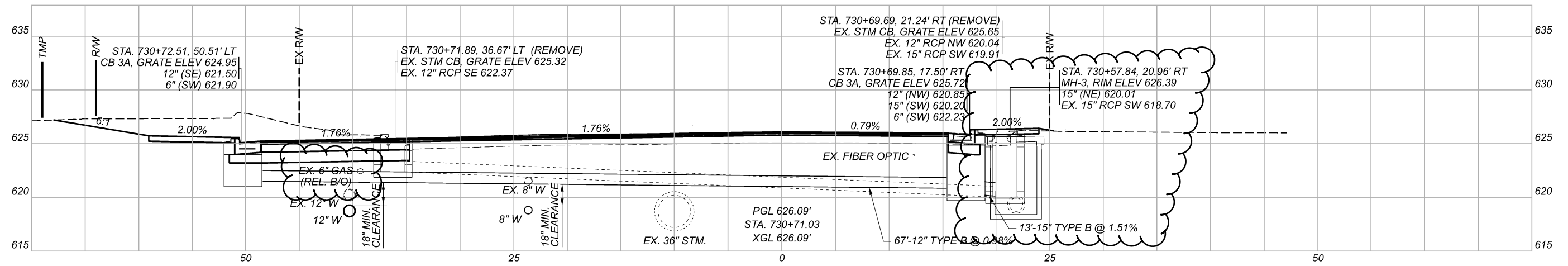
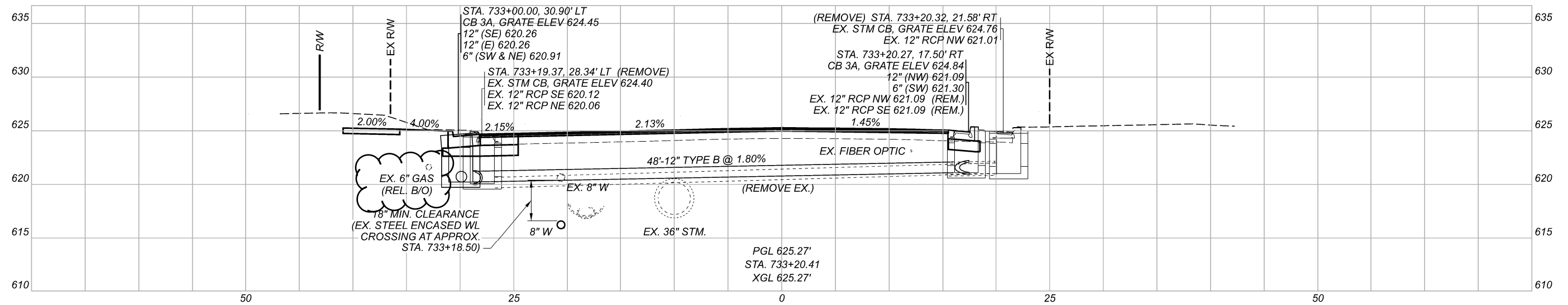
REVIEWER

AJL 11/14/22

PROJECT ID

108465

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
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DRAINAGE CROSS SECTIONS - AIRPORT HIGHWAY (S.R. 2)
 STA. 726+57.00 TO STA. 733+20.41

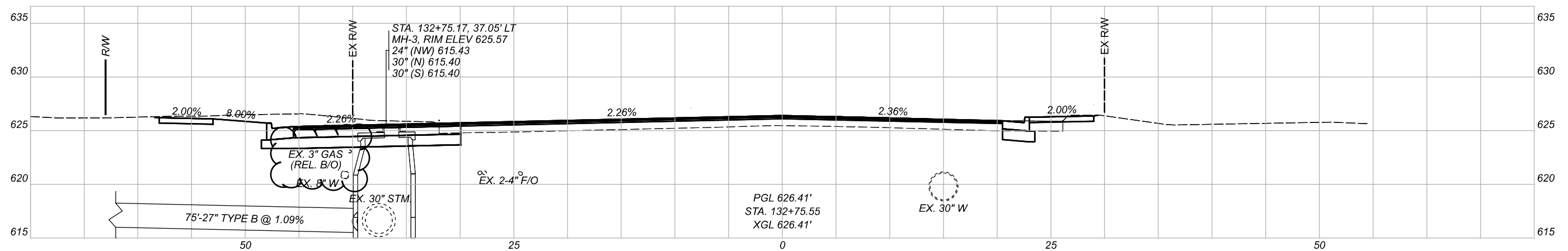
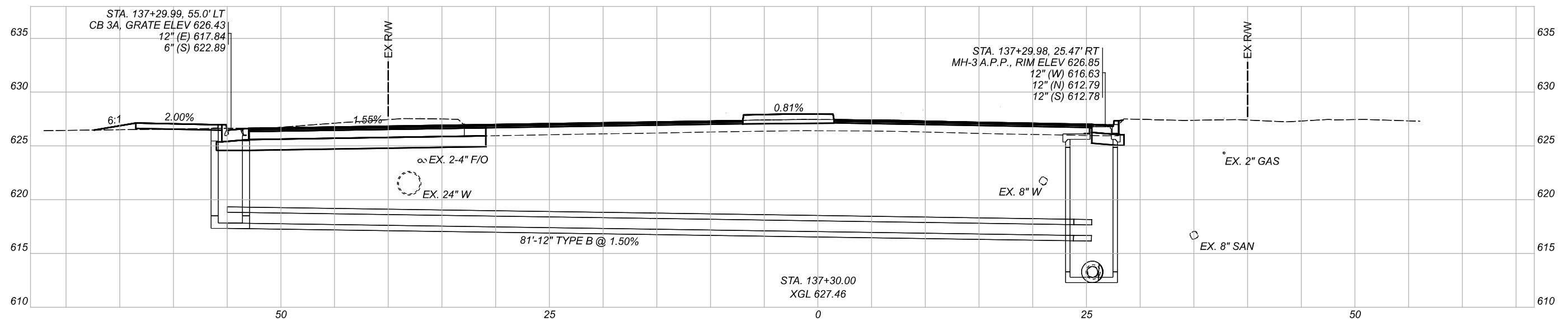
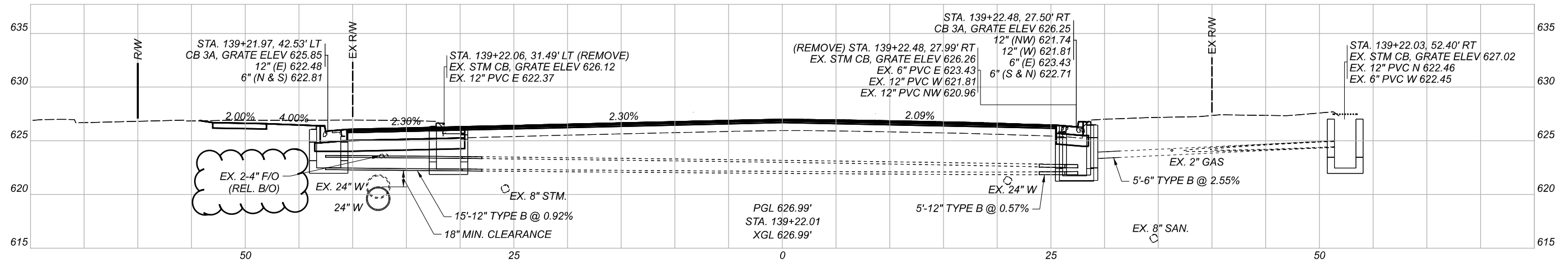
DESIGN AGENCY



DESIGNER
 AMD
 REVIEWER
 AJL 11/14/22

PROJECT ID
 108465

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
.	.	.	P.104	181



DRAINAGE CROSS SECTIONS - BYRNE RD
 STA. 132+75.55 TO STA. 142+15.90

DESIGN AGENCY



DESIGNER

AMD

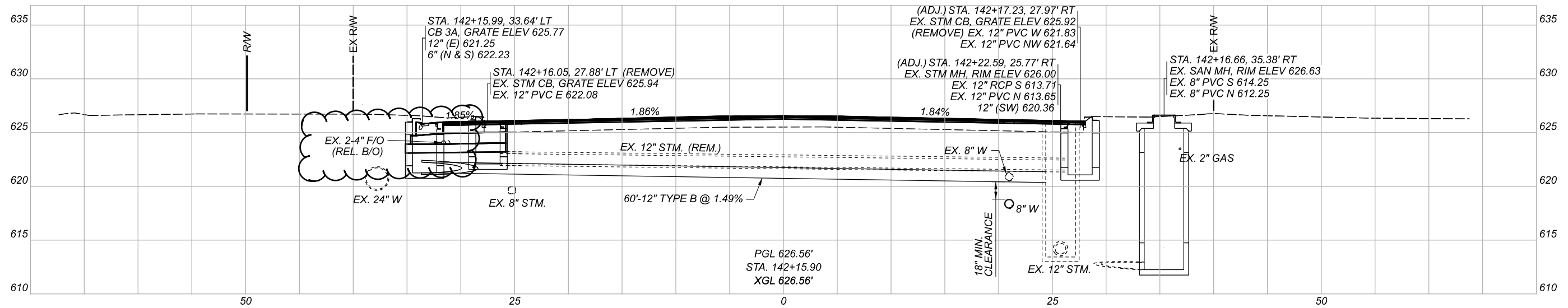
REVIEWER

AJL 11/14/22

PROJECT ID

108465

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
.	.	.	P.106	181



DRAINAGE CROSS SECTIONS - BYRNE RD
 STA. 142+15.90

DESIGN AGENCY

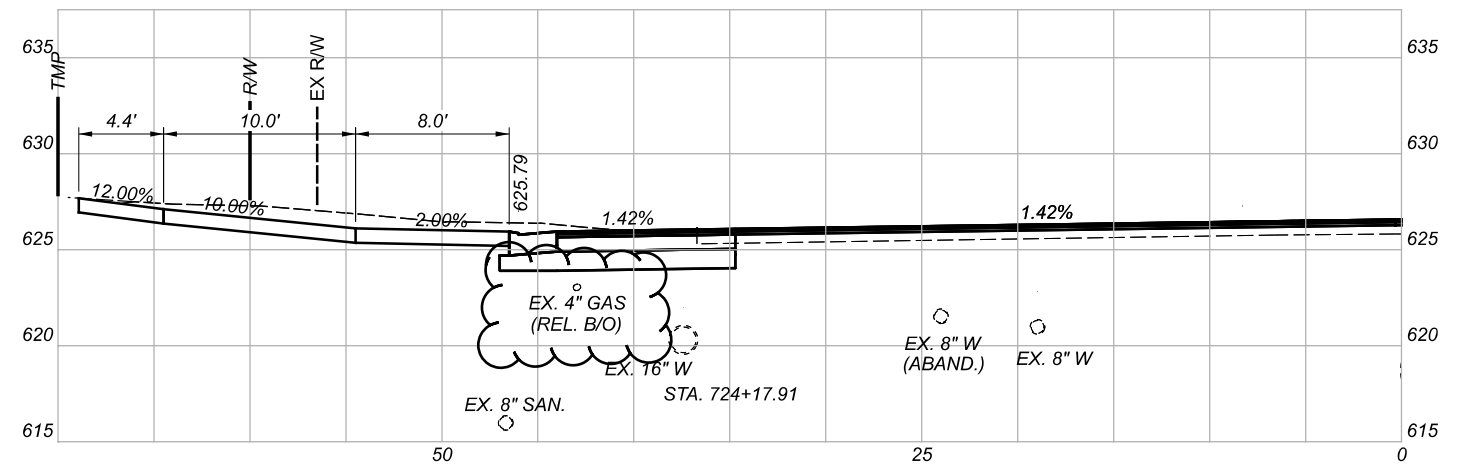
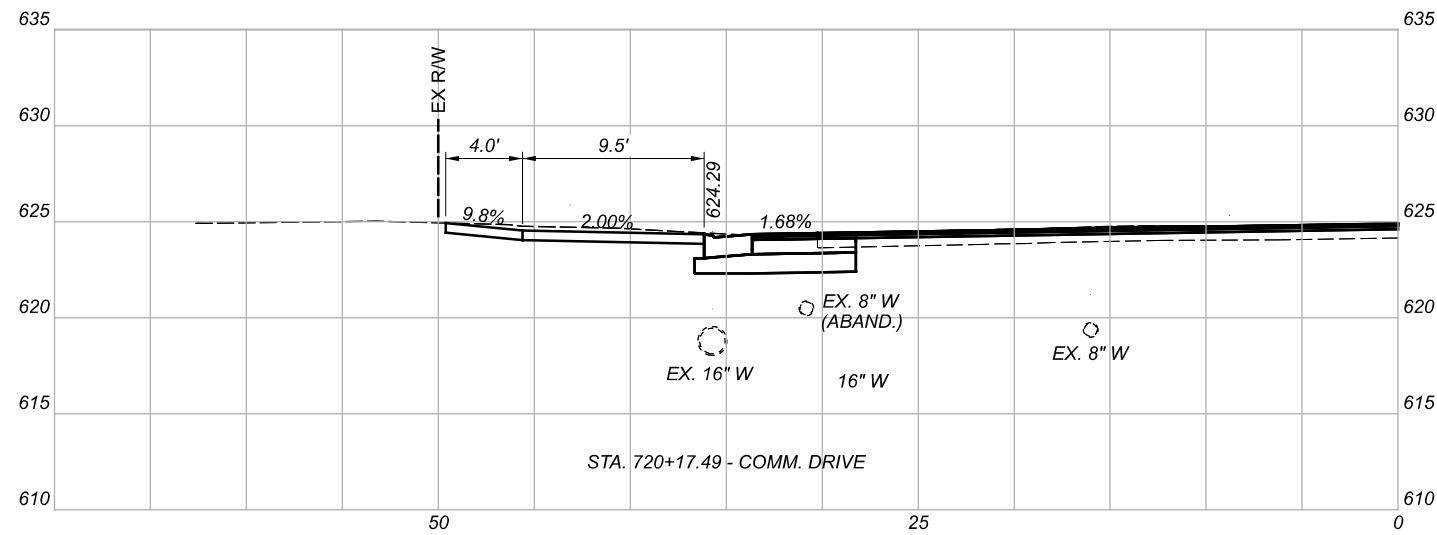
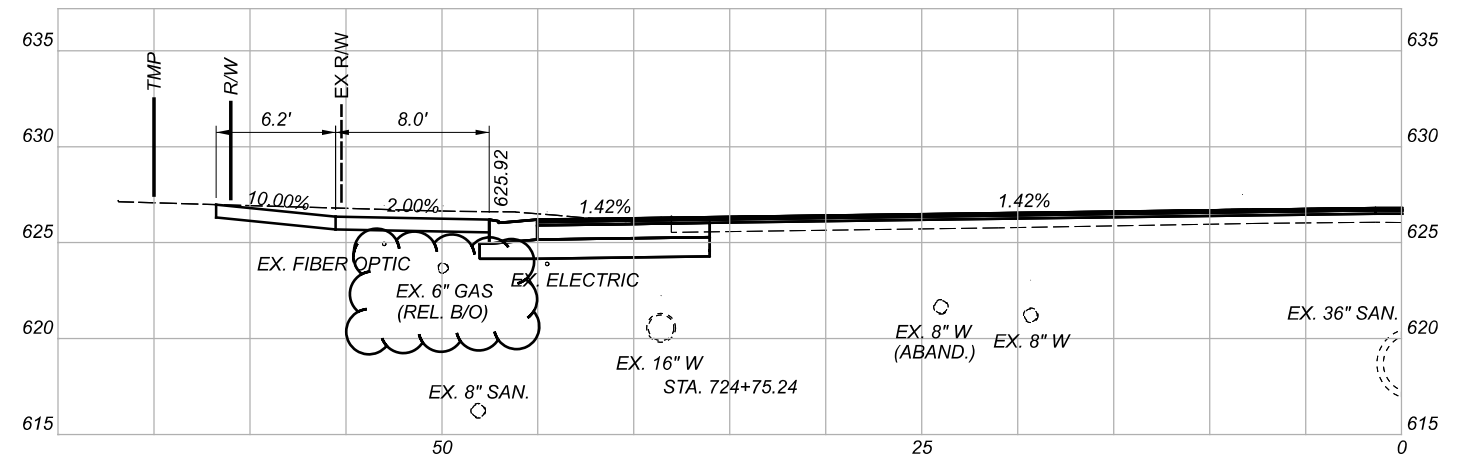
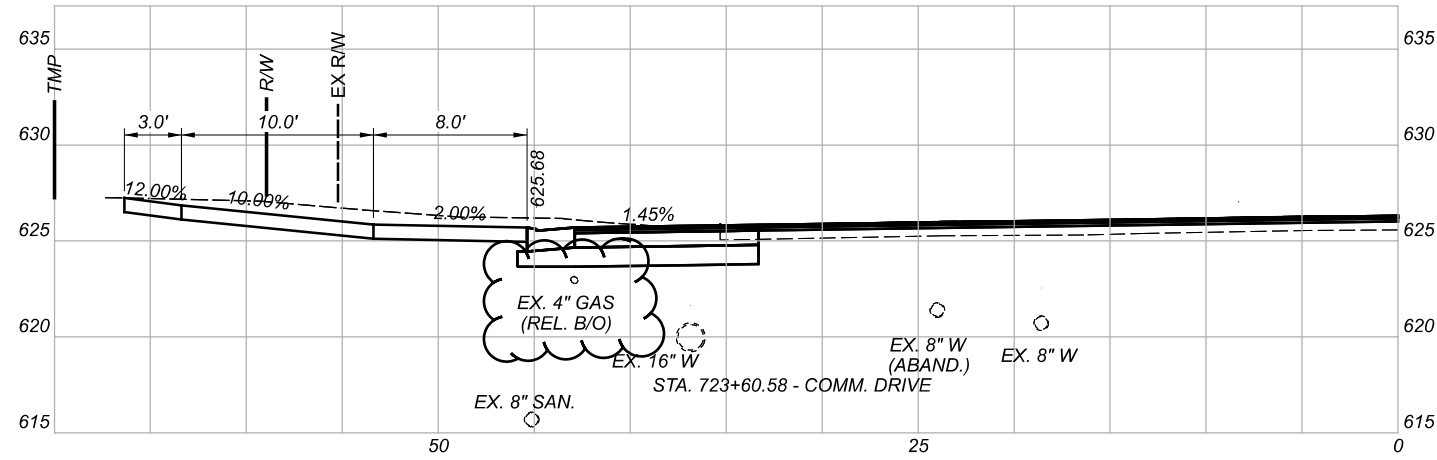


DESIGNER
 AMD

REVIEWER
 AJL 11/14/22

PROJECT ID
 108465

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
.	.	.	P.107	181

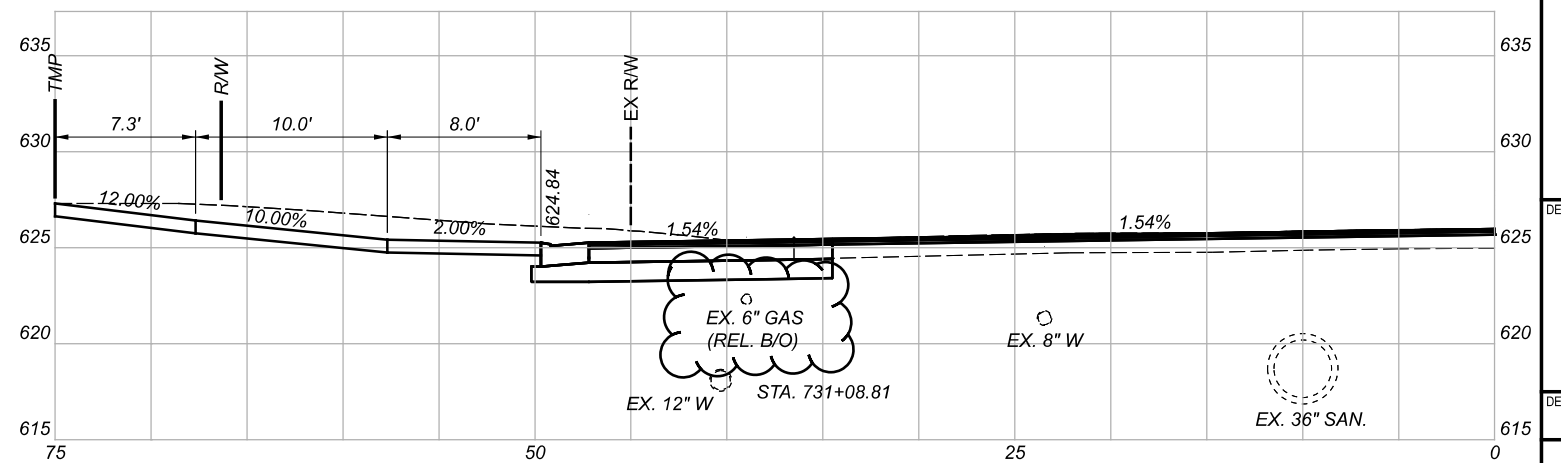
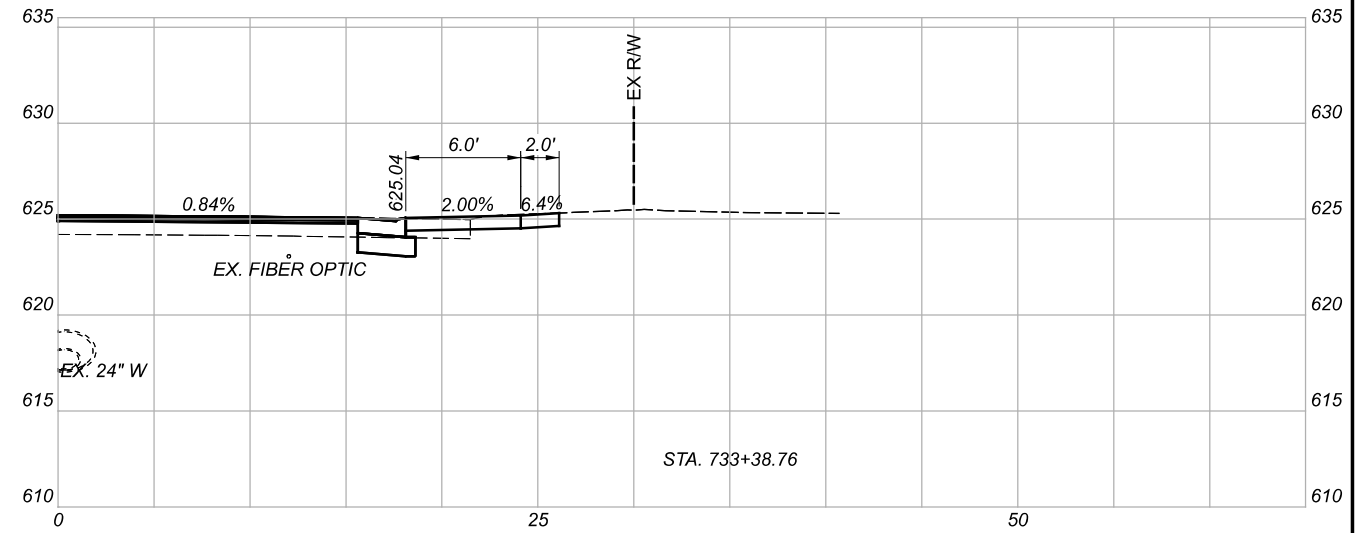
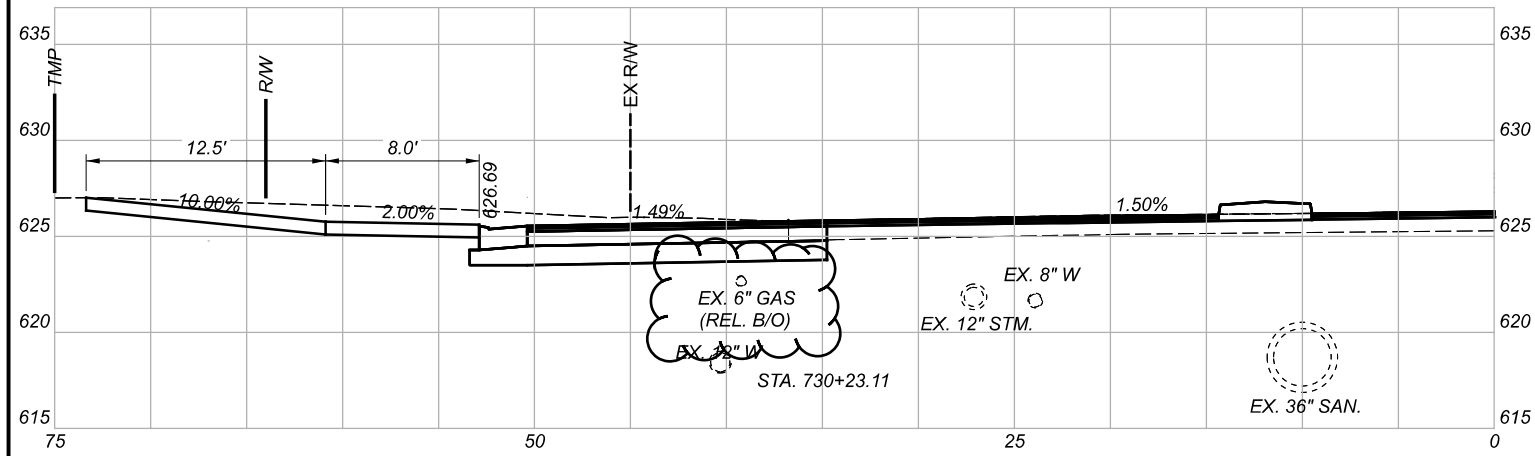


DRIVE PROFILES - AIRPORT HIGHWAY (S.R. 2)
STA. 720+17.70 TO STA. 724+75.24

DESIGN AGENCY



DESIGNER	AMD
REVIEWER	AJL 08/26/22
PROJECT ID	108465
SHEET	TOTAL
P.108	181



DRIVE PROFILES - AIRPORT HIGHWAY (S.R. 2)
 STA. 725+37.13 TO STA. 733+38.76

DESIGN AGENCY



DESIGNER

AMD

REVIEWER

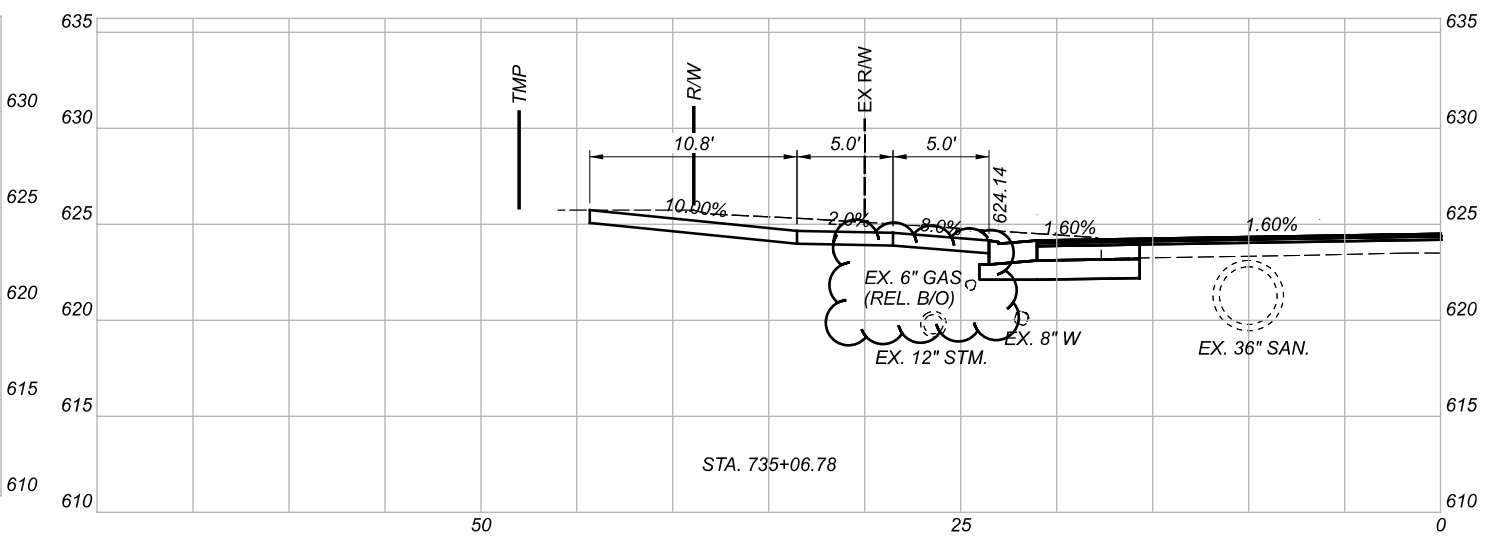
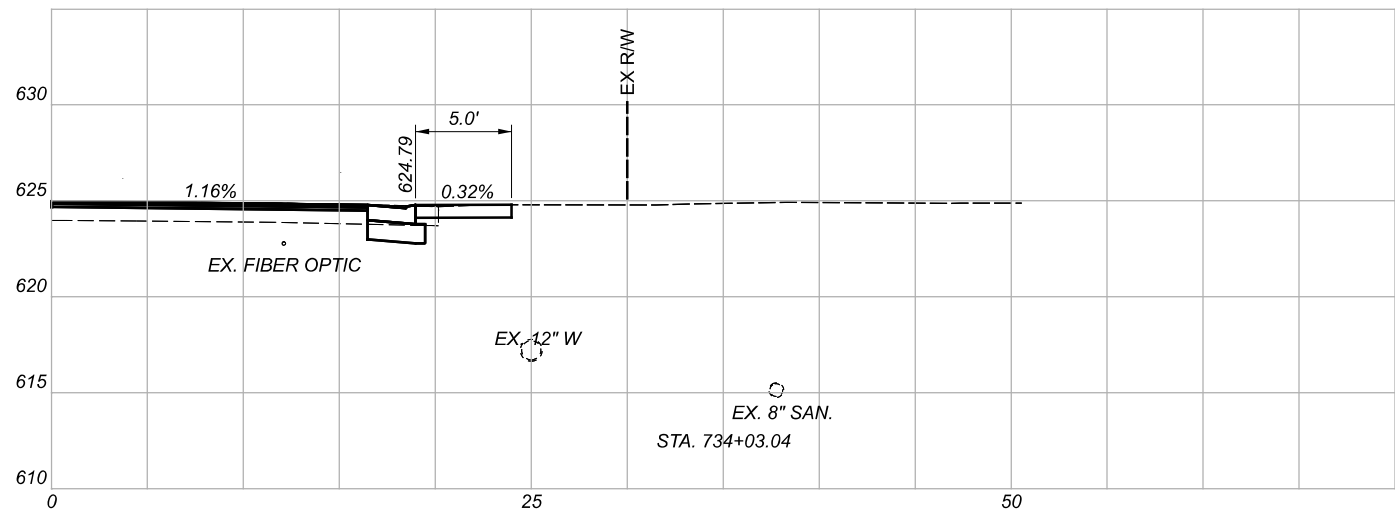
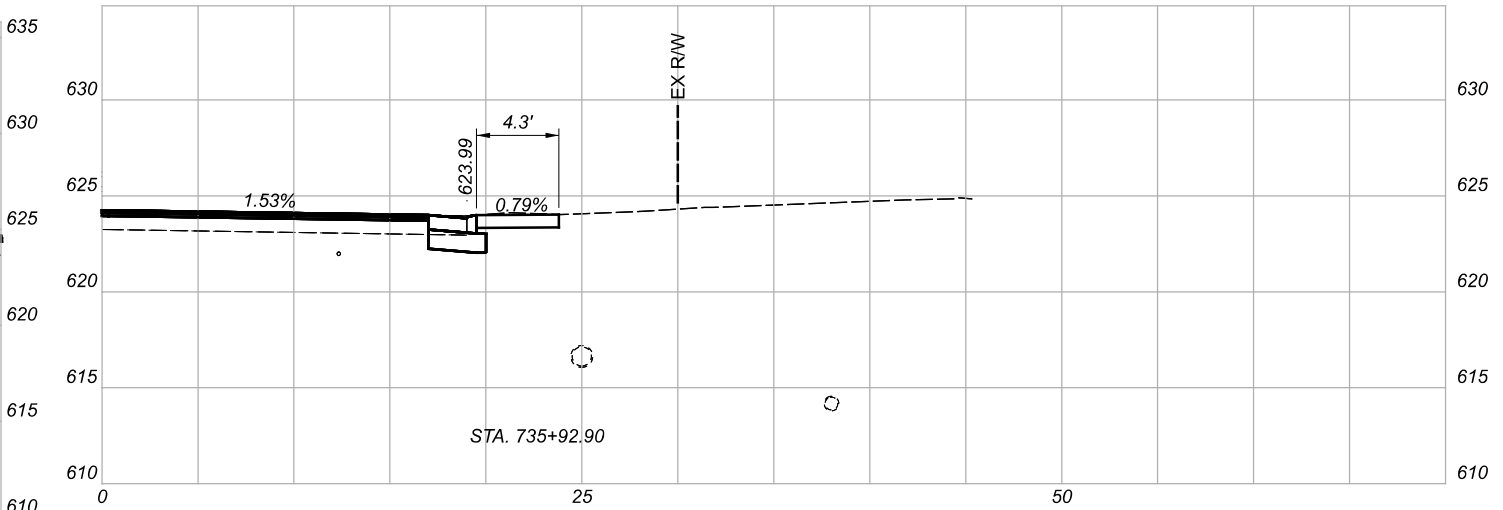
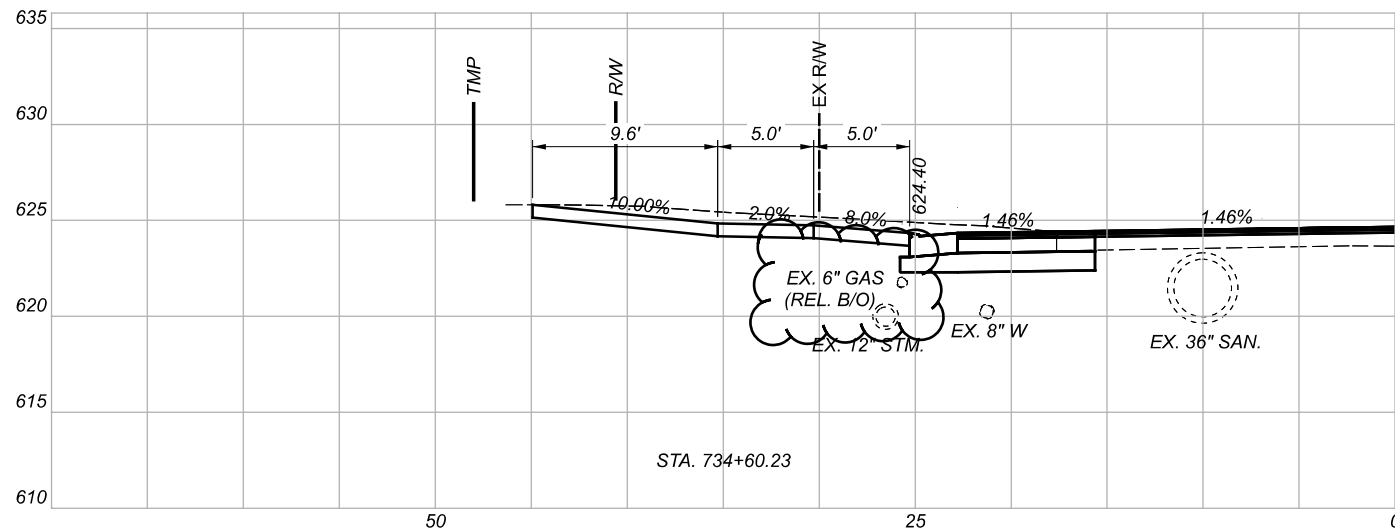
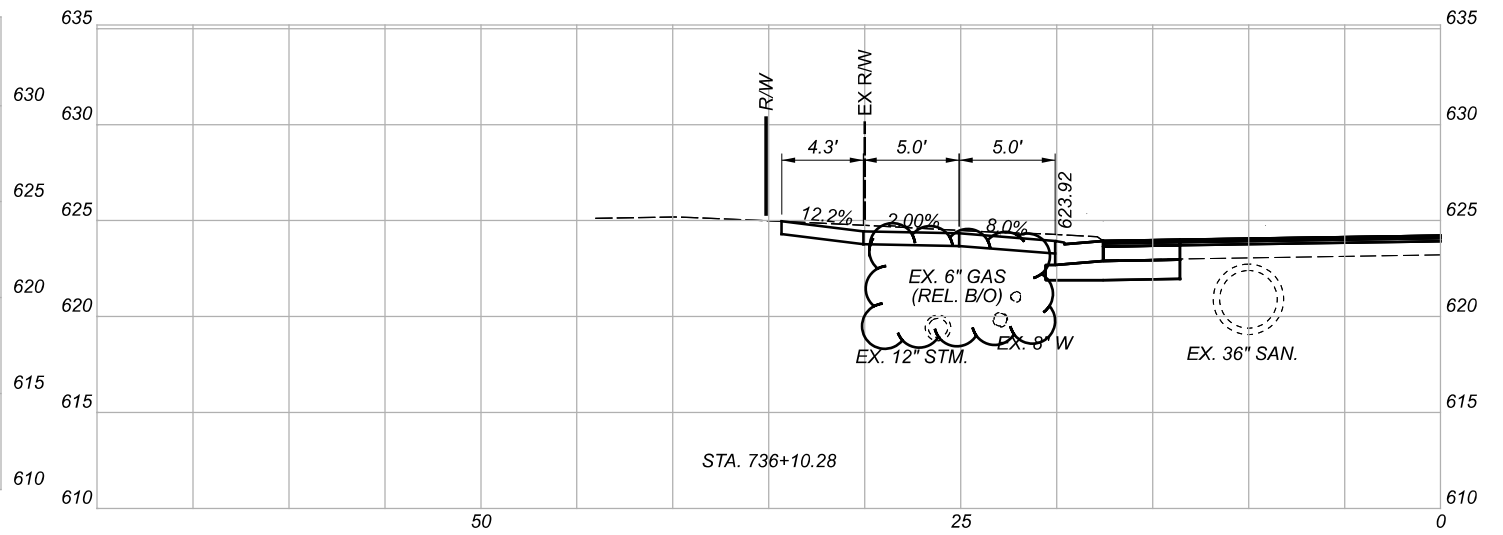
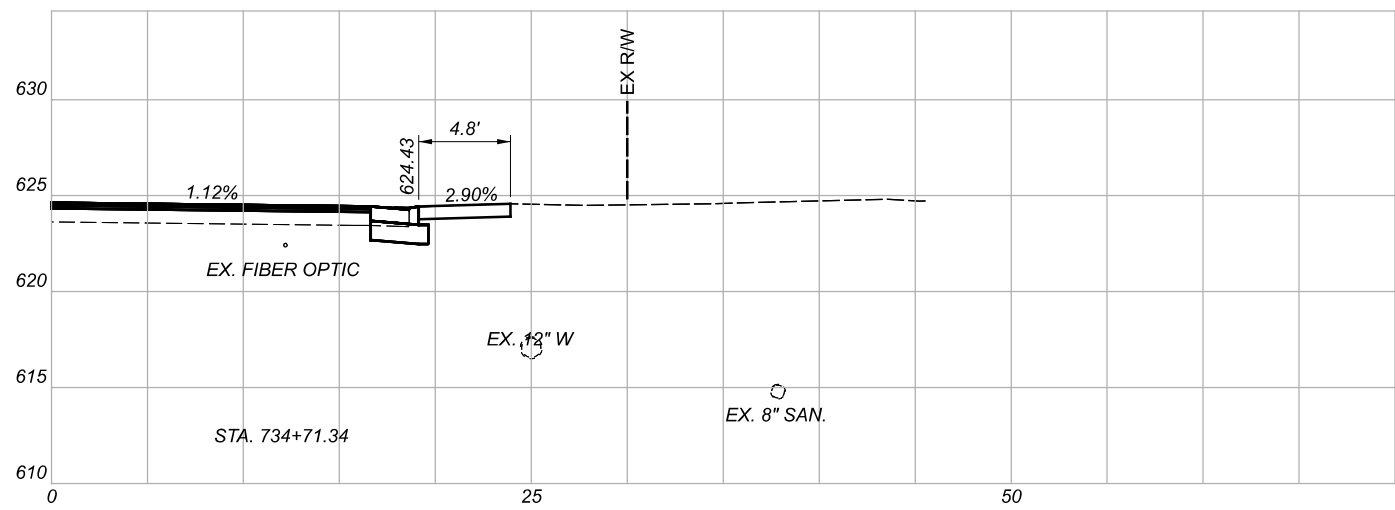
AJL 08/26/22

PROJECT ID

108465

SHEET TOTAL

P.109 181



DRIVE PROFILES - AIRPORT HIGHWAY (S.R. 2)
STA. 734+03.04 TO STA. 736+10.28

DESIGN AGENCY



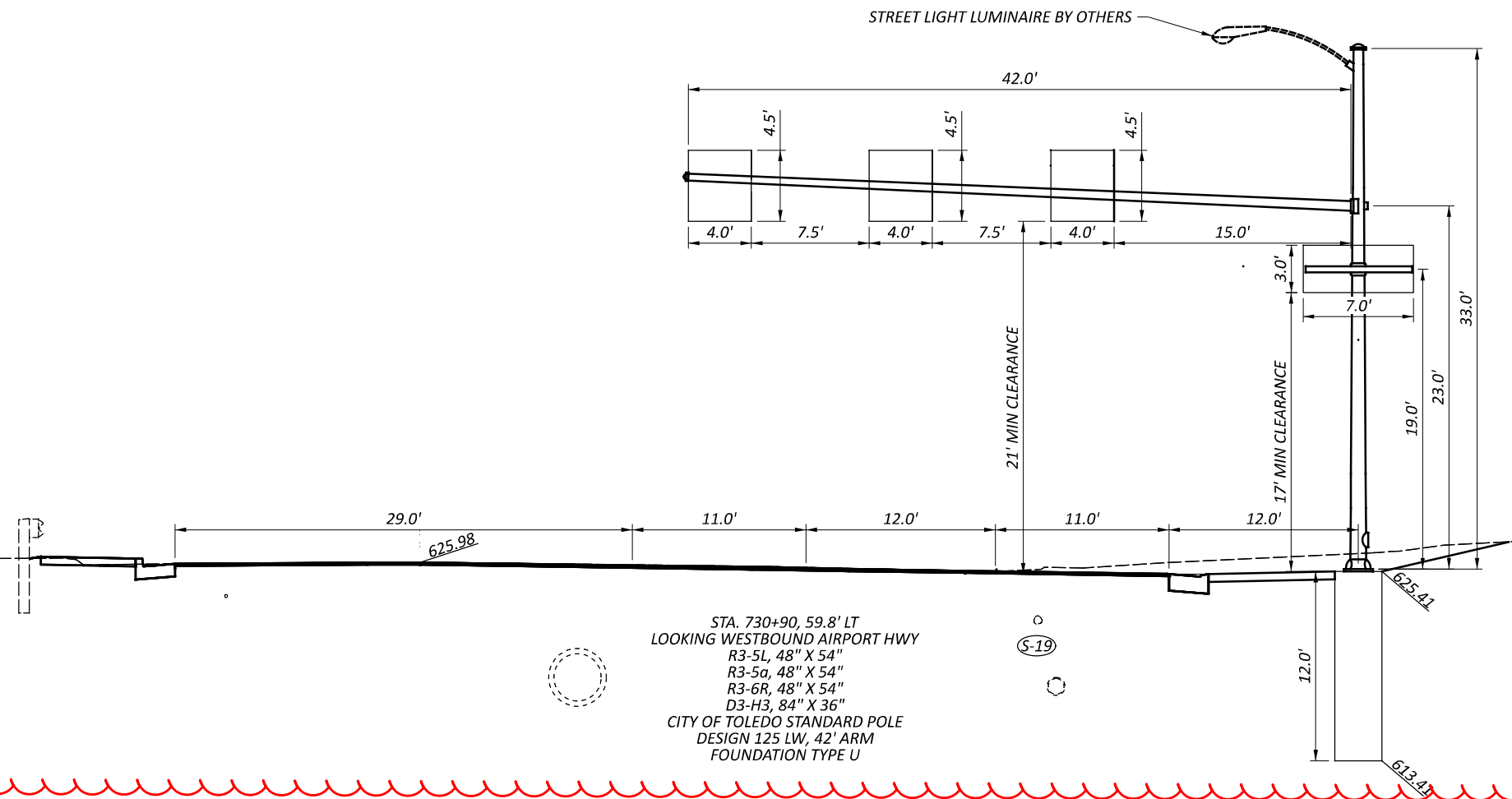
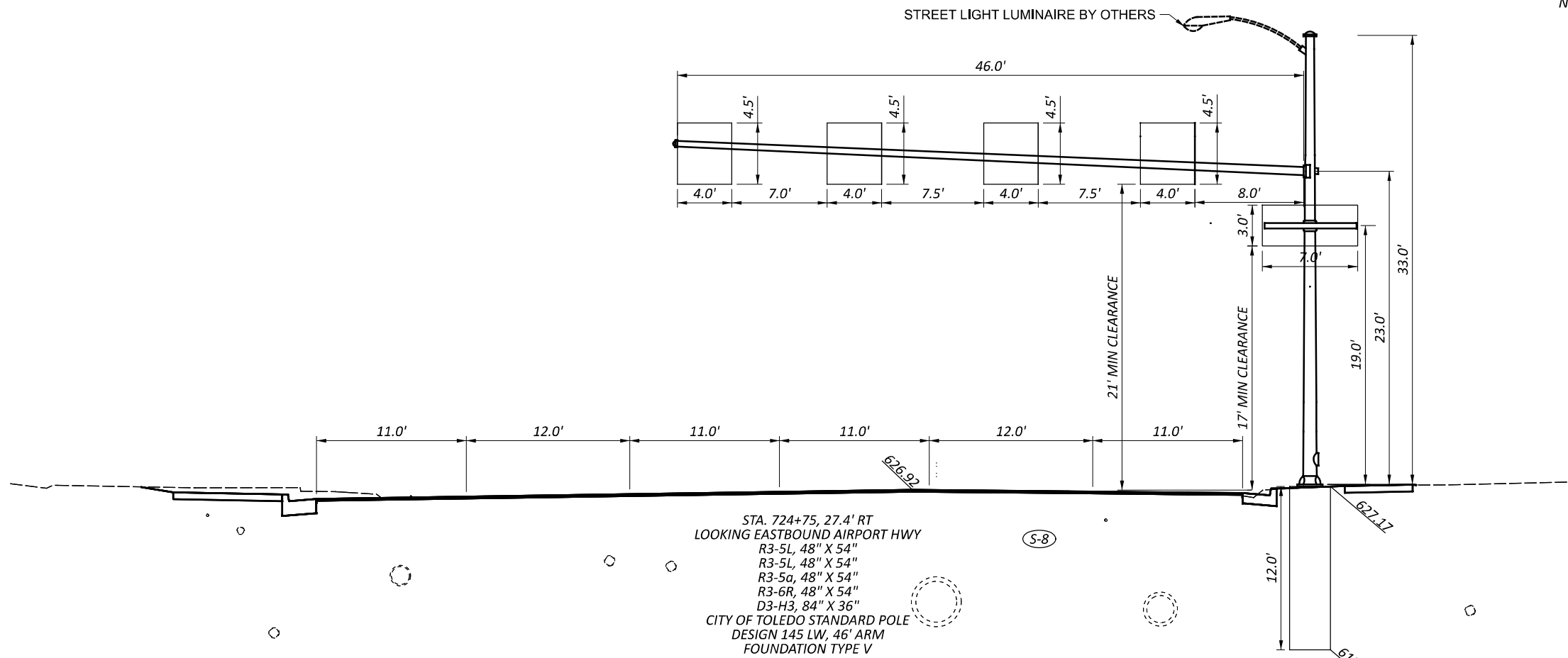
DESIGNER
AMD

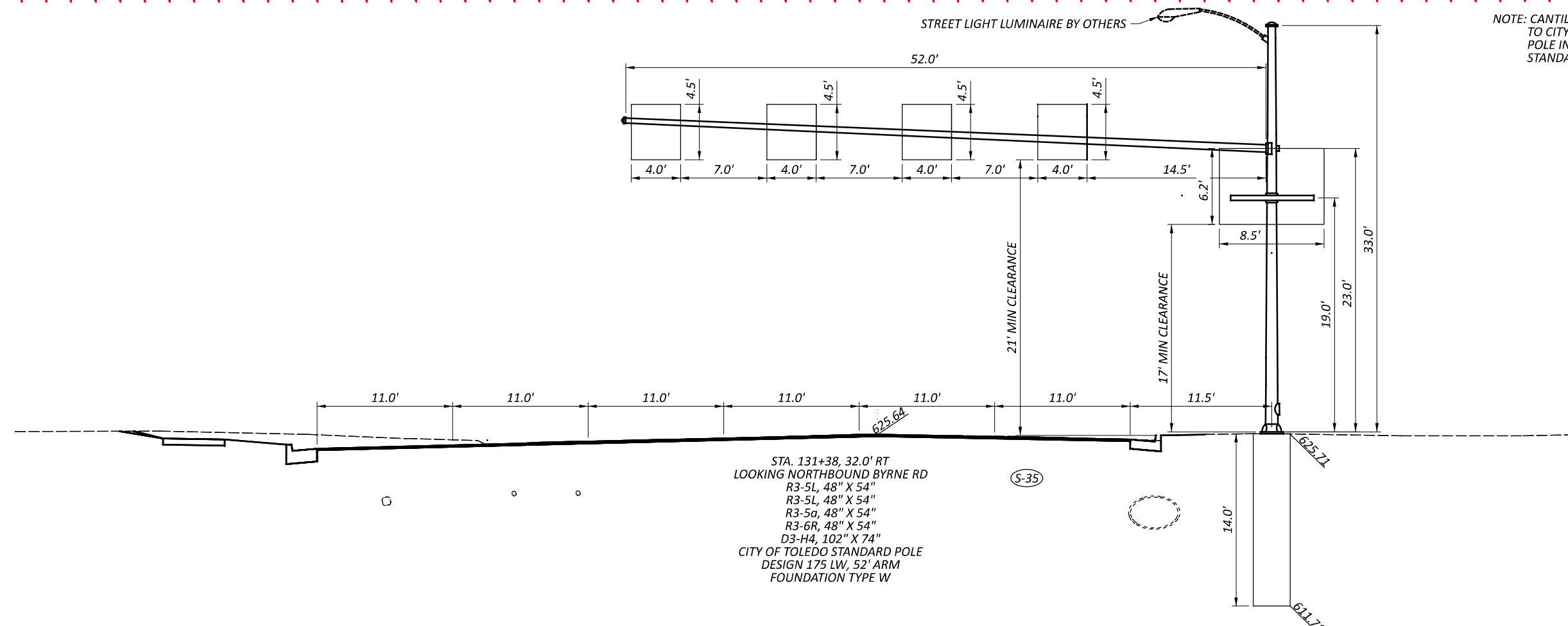
REVIEWER
AJL 08/26/22

PROJECT ID
108465

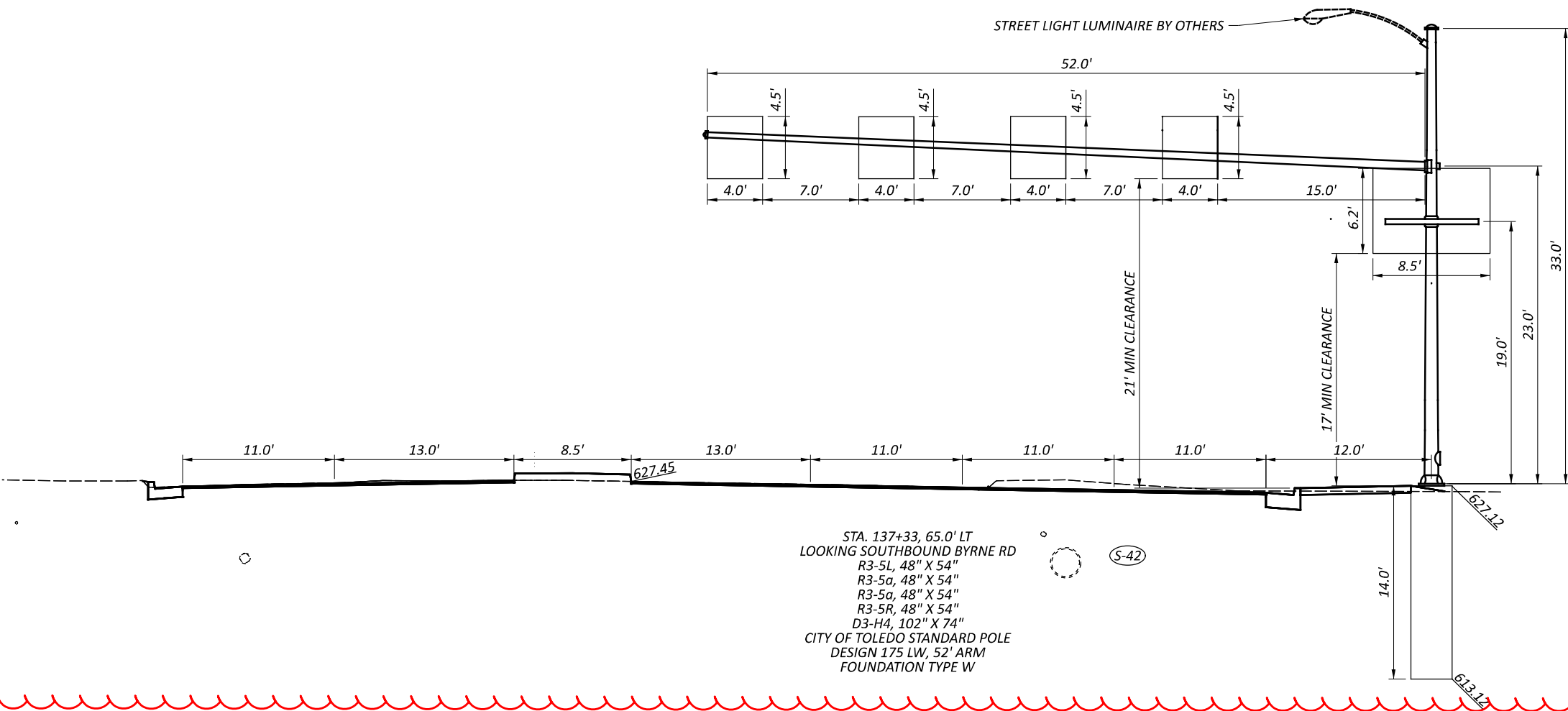
SHEET TOTAL
P.110 181

NOTE: CANTILEVER SIGN SUPPORT POLES ARE DESIGNED TO CITY OF TOLEDO STANDARDS. FOR ADDITIONAL POLE INFORMATION REFERENCE THE CITY OF TOLEDO STANDARD CONSTRUCTION DRAWINGS PAGES 64-67.





NOTE: CANTILEVER SIGN SUPPORT POLES ARE DESIGNED TO CITY OF TOLEDO STANDARDS. FOR ADDITIONAL POLE INFORMATION REFERENCE THE CITY OF TOLEDO STANDARD CONSTRUCTION DRAWINGS PAGES 64-67.



DESIGN AGENCY

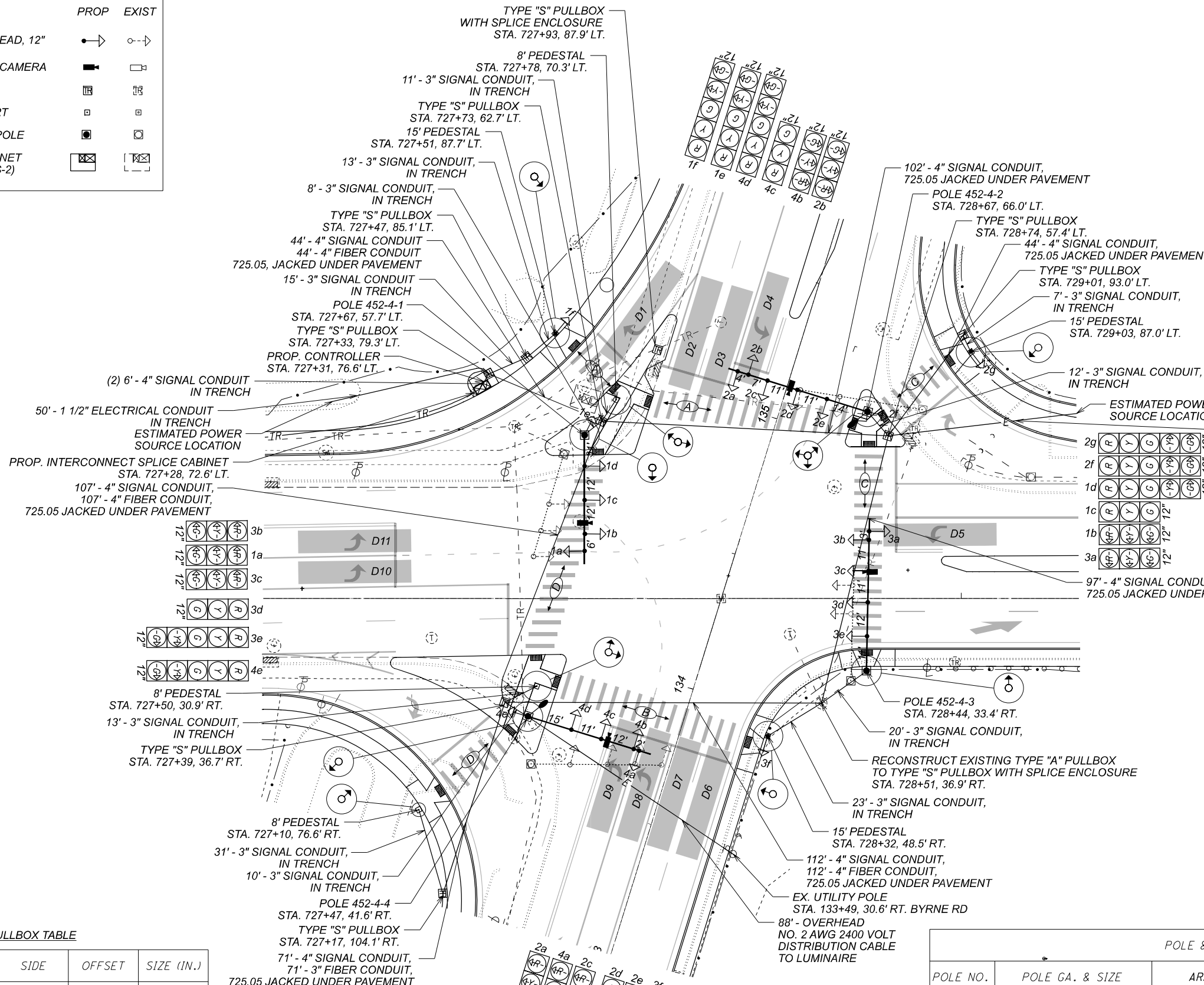
DESIGNER
AMW

REVIEWER
CML

PROJECT ID
108465

SHEET TOTAL
P.139B 181

LEGEND		PROP	EXIST
TRAFFIC SIGNAL, HEAD, 12"			
VIDEO DETECTION CAMERA			
TRAFFIC PULL BOX			
PEDESTAL SUPPORT			
SIGNAL SUPPORT POLE			
CONTROLLER CABINET AND WORK PAD (TS-2)			



PULLBOX TABLE

TYPE	STATION	SIDE	OFFSET	SIZE (IN.)
S	727+33	LT	79.3'	24 X 35
S	727+47	LT	85.1'	24 X 35
S	727+73	LT	62.7'	24 X 35
S	728+74	LT	57.4'	24 X 35
S	729+01	LT	93.0'	24 X 35
S	727+93	LT	87.9'	24 X 35
S	727+17	RT	104.1'	24 X 35
S	727+39	RT	36.7'	24 X 35
S	728+51	RT	36.9'	24 X 35

NOTE: STATIONING REFERENCED TO AIRPORT HWY UNLESS OTHERWISE NOTED

POLE & MAST ARM DATA				
POLE NO.	POLE GA. & SIZE	ARM GA. & SIZE	FOUNDATION	BOLT & BOLT CIRCLE
452-4-1	3E13.0" X 9.85" X 22.5'	3E10.0" X 7.87" X 15.25' & 7E8.44" X 4.24" X 30.0'	J	1-3/4" X 90"; 18"
452-4-2	0E15.0" X 11.85" X 33'	0E12.0" X 9.31" X 19.25' & 7E9.88" X 5.4" X 32.0'	O	2" X 90"; 22"
452-4-3	0E16.0" X 12.85" X 22.5'	0E13.0" X 10.27" X 19.5' & 7E10.88" X 6.12" X 34.0'	R	2-1/4" X 96"; 23-1/2"
452-4-4	2-7E13.0" X 9.85" X 33'	2-7E10.0" X 7.87" X 15.25' & 3E8.58" X 4.38" X 30.0'	M	2" X 90"; 20"

FOR INTERCONNECT DETAILS, SEE SHEET 152-153

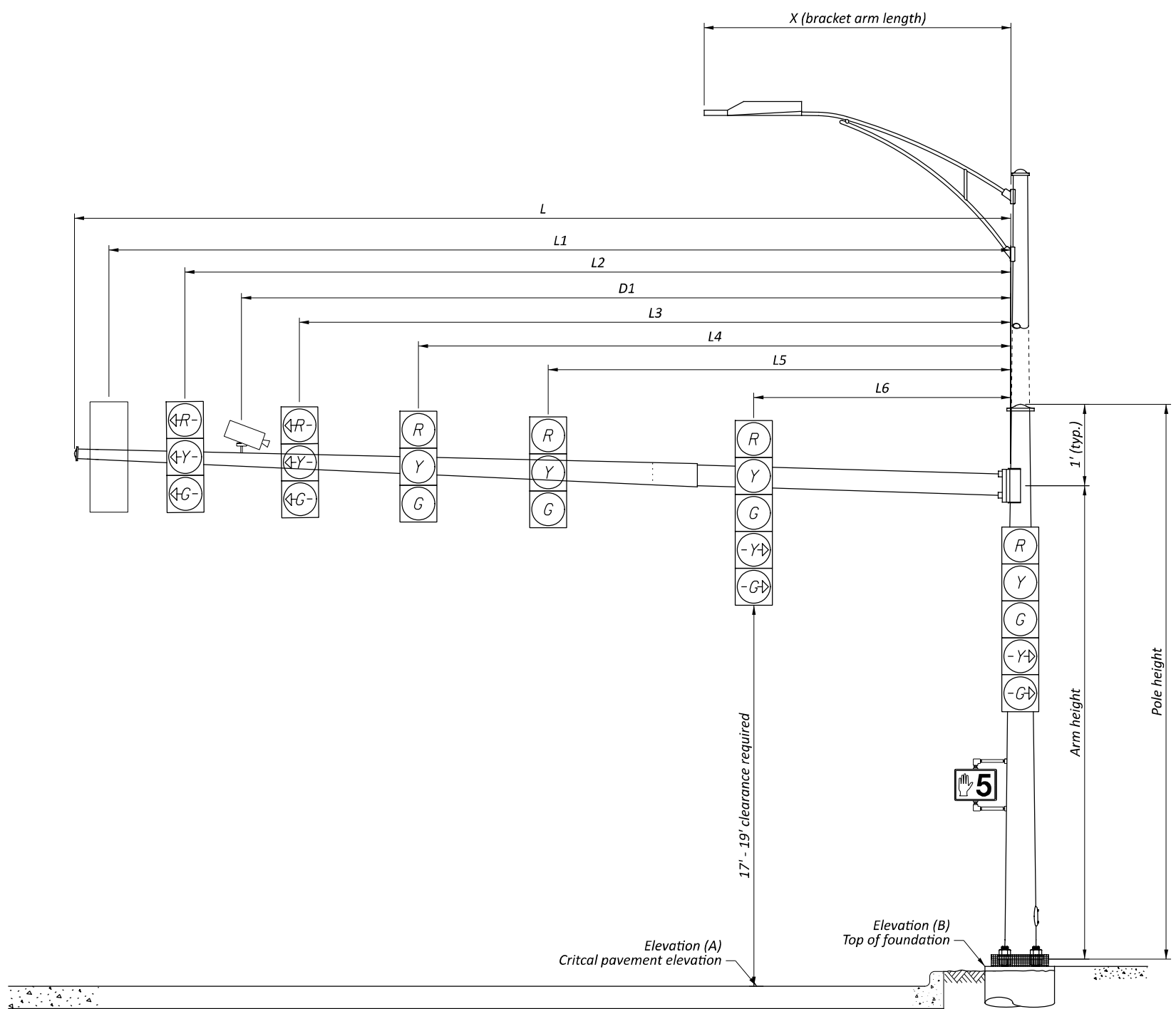


TRAFFIC SIGNAL PLAN
 SR 2 (AIRPORT HWY) & BYRNE RD

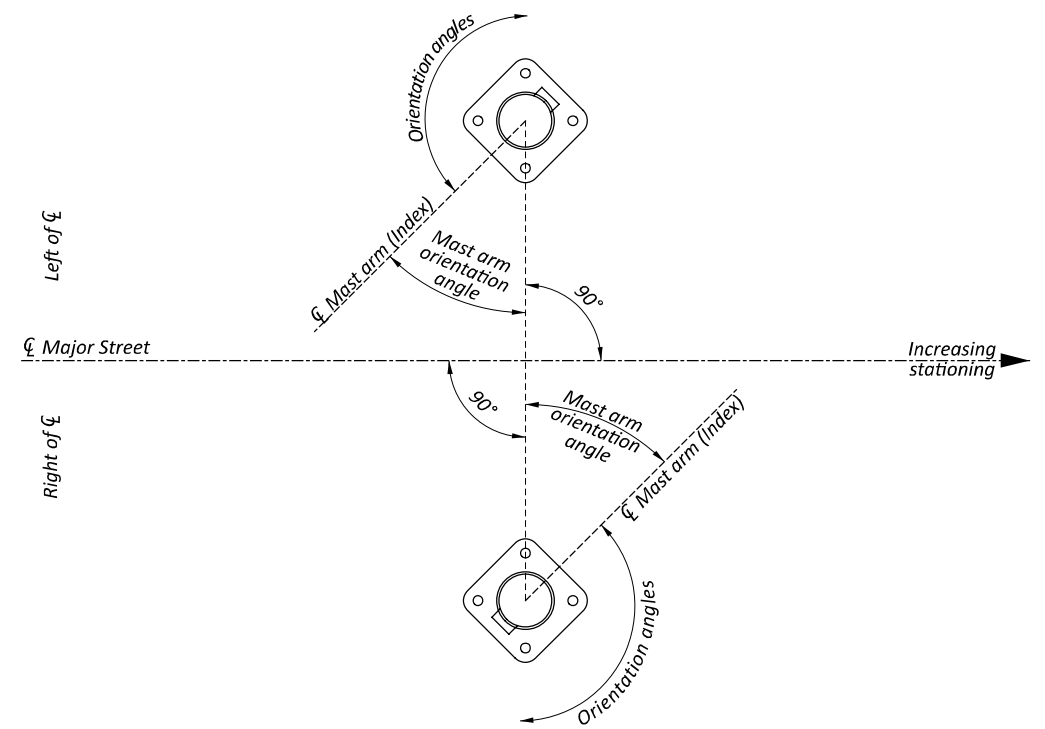


DESIGN AGENCY	DGL CONSULTING ENGINEERS
DESIGNER	AMW
REVIEWER	CML
PROJECT ID	108465
SHEET	P.148
TOTAL	181

NOTE: SIGNAL POLES ARE DESIGNED TO CITY OF TOLEDO STANDARDS. FOR ADDITIONAL POLE INFORMATION REFERENCE THE CITY OF TOLEDO STANDARD CONSTRUCTION DRAWINGS PAGES 55-57.



SIGNAL SUPPORT ELEVATION



POLE ORIENTATION

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS													ORIENTATION ANGLES FROM MAST ARM A							
			A (Pavt. Elev.)	B (Top of Found.)	POLE GA. & SIZE	ARM GA. & SIZE	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	L6	D1	X	MAST ARM A ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	POWER SERVICE	BRACKET ARM	HANDHOLE	LUMINAIRE HANDHOLE	CABLE ENTRANCE 12" FROM TOP
452-4-1	727+67	57.7' LT	627.00	626.51	3E13.0" X 9.85" X 22.5'	3E10.0" X 7.87" X 15.25' & 7E8.44" X 4.24" X 30.0'	22.5	21.5	44	41	35	-	23	-	11	30	-	0	20	-	-	180	-	180	
452-4-2	728+67	66.0' LT	626.63	626.82	0E15.0" X 11.85" X 33'	0E12.0" X 9.31" X 19.25' & 7E9.88" X 5.4" X 32.0'	33	21.5	50	47	43	36	25	14	-	27	10	110	130/260/350	-	-	110	180	290	180
452-4-3	728+44	33.4' RT	626.86	627.03	0E16.0" X 12.85" X 22.5'	0E13.0" X 10.27" X 19.5' & 7E10.88" X 6.12" X 34.0'	22.5	21.5	52	48	45	34	23	-	11	-	-	0	0	-	-	180	-	180	
452-4-4	727+47	41.6' RT	626.66	626.33	2-7E13.0" X 9.85" X 33'	2-7E10.0" X 7.87" X 15.25' & 3E8.58" X 4.38" X 30.0'	33	21.5	44	40	38	-	26	-	15	-	10	110	120	-	-	110	180	290	180