

FLYING CLOUD AIRPORT

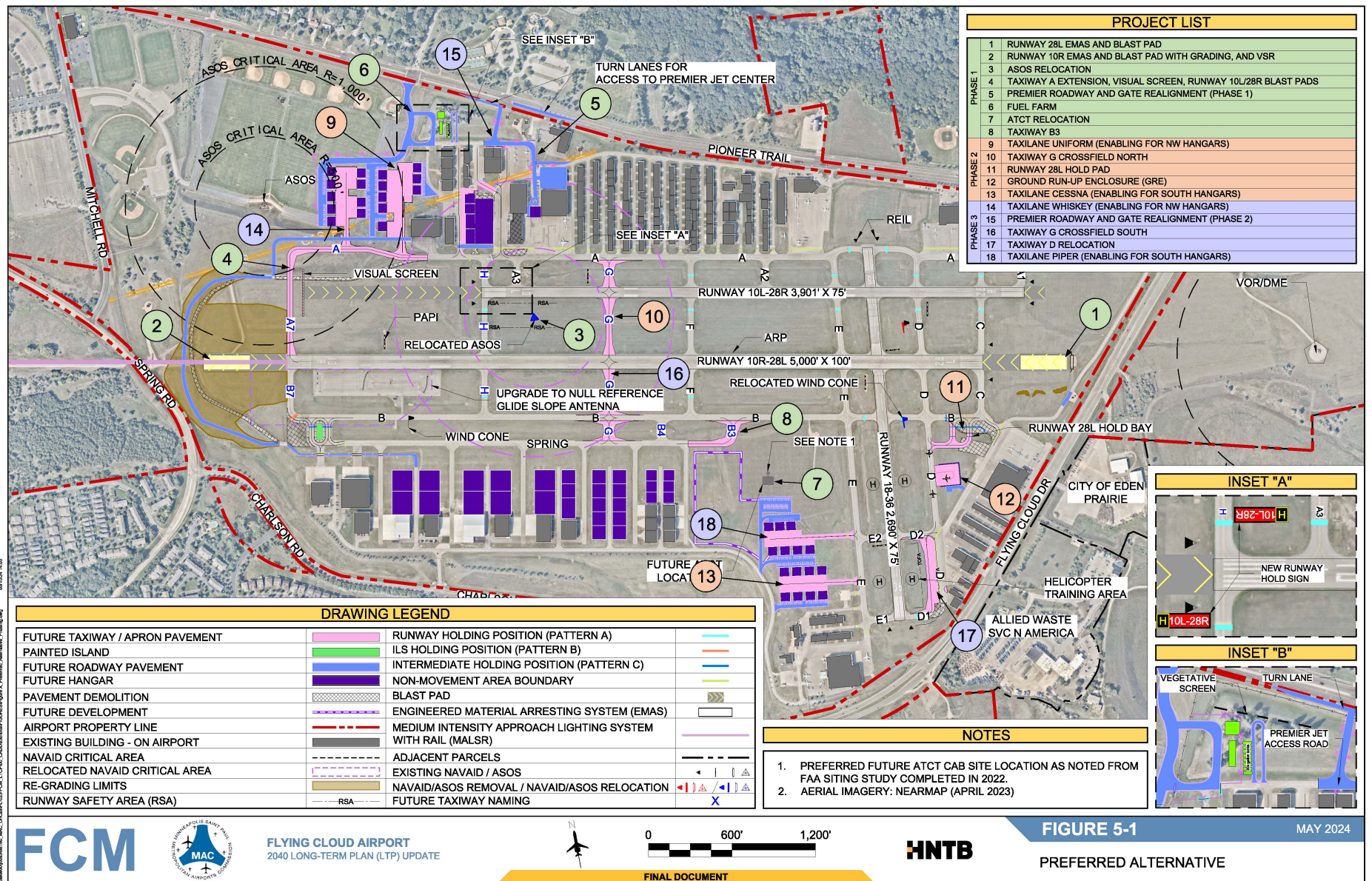
LONG-TERM
PLAN
2040

APPENDIX A
COST ESTIMATES





Capital Improvement Projects: Planning Level Estimate of Probable Cost



FCM: ALP Estimate

	CIP #1	CIP #2	CIP #3	CIP #4	CIP #5	CIP #6	CIP #7	CIP #8	CIP #9	CIP #10	CIP #11	CIP #12	CIP #13	CIP #14	CIP #15	CIP #16	CIP #17	CIP #18
Construction Cost	\$ 10,695,340	\$ 21,721,256	\$ 499,765	\$ 4,891,751	\$ 2,500,866	\$ 2,950,988	\$ 1,142,961	\$ 911,053	\$ 5,175,789	\$ 1,270,845	\$ 787,481	\$ 4,030,492	\$ 2,046,703	\$ 2,104,825	\$ 1,370,997	\$ 1,276,087	\$ 1,320,129	\$ 4,084,226
Soft Costs	\$ 5,401,147	\$ 10,969,234	\$ 252,381	\$ 2,470,334	\$ 1,262,937	\$ 1,490,249	\$ 577,195	\$ 460,082	\$ 2,613,774	\$ 641,776	\$ 397,678	\$ 2,035,398	\$ 1,033,585	\$ 1,062,936	\$ 692,354	\$ 644,424	\$ 666,665	\$ 2,062,534
SUBTOTAL:	\$ 16,096,487	\$ 32,690,490	\$ 752,147	\$ 7,362,086	\$ 3,763,804	\$ 4,441,237	\$ 1,720,156	\$ 1,371,134	\$ 7,789,563	\$ 1,912,621	\$ 1,185,158	\$ 6,065,890	\$ 3,080,288	\$ 3,167,761	\$ 2,063,351	\$ 1,920,511	\$ 1,986,795	\$ 6,146,759
30% CONTINGENCY:	\$ 4,828,946	\$ 9,807,147	\$ 225,644	\$ 2,208,626	\$ 1,129,141	\$ 1,332,371	\$ 516,047	\$ 411,340	\$ 2,336,869	\$ 573,786	\$ 355,547	\$ 1,819,767	\$ 924,086	\$ 950,328	\$ 619,005	\$ 576,153	\$ 596,038	\$ 1,844,028
TOTAL:	\$ 20,925,433	\$ 42,497,637	\$ 977,791	\$ 9,570,711	\$ 4,892,945	\$ 5,773,608	\$ 2,236,203	\$ 1,782,475	\$ 10,126,432	\$ 2,486,407	\$ 1,540,706	\$ 7,885,657	\$ 4,004,375	\$ 4,118,089	\$ 2,682,356	\$ 2,496,665	\$ 2,582,833	\$ 7,990,787

ALL CIP TOTAL: \$ 134,571,109

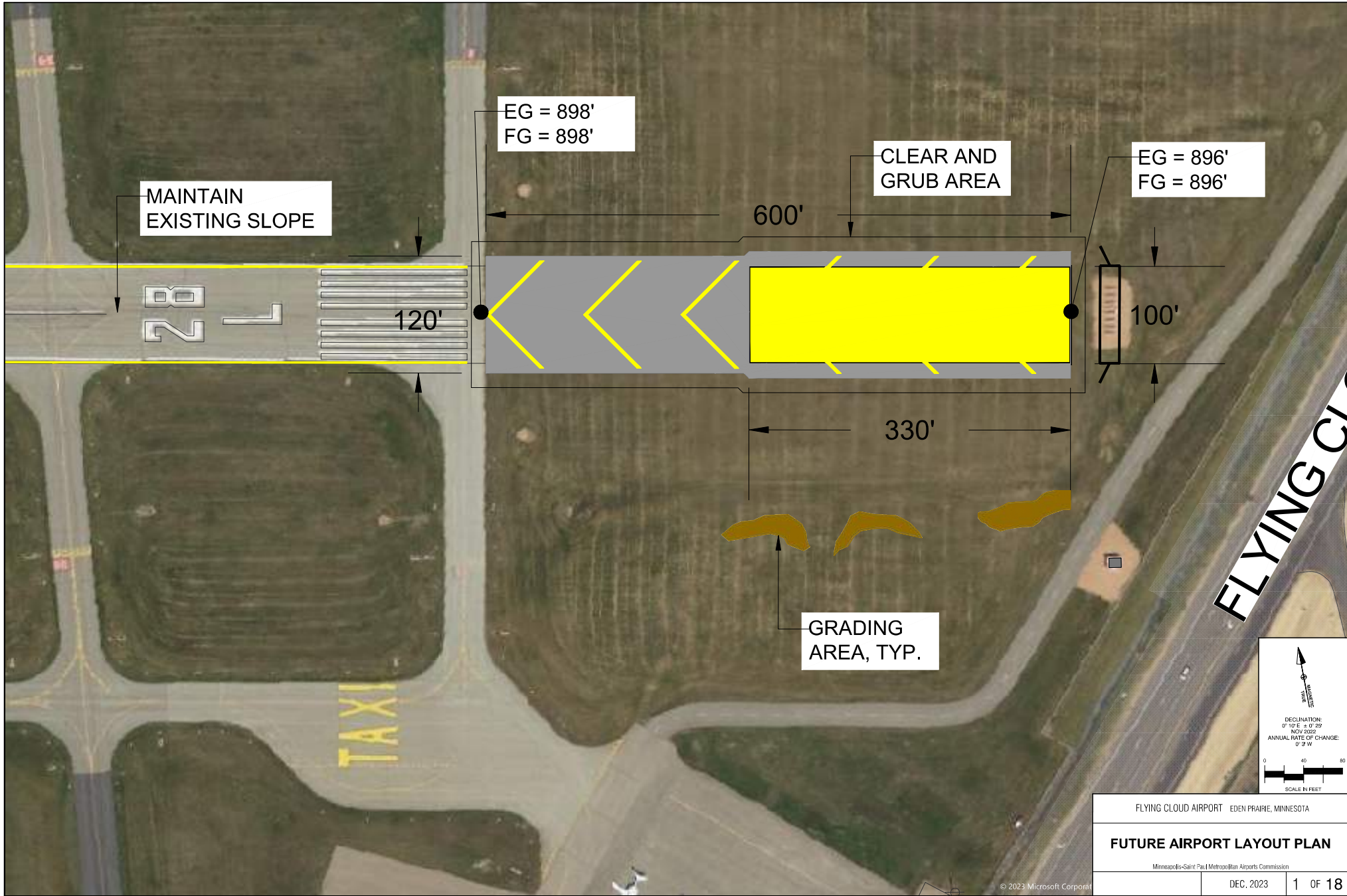
Scope and Assumptions:

- This estimate was performed by HNTB Aviation Engineering practice utilizing planning level documents.
- **This estimate is a reflection of planning level detail and therefore a 30% contingency is applied to the total CIP price.**
- Unit pricing for the estimate are drawn from multiple aviation and roadway projects and from industry suppliers, large ticket items will be noted in each CIP.
- Unit pricing for standard items were developed utilizing a recent project at FCM (2022 FCM Taxiway H Holding Bay and Service Road), a recently constructed Group II GA project (Van Nuys Airport) and 2022 Minneapolis DOT Average Bid Prices.
- A reduction of 20% was applied to unit prices used from Southern California Projects
- **This estimate does not account for Escalation**
- Soft costs is a percent of the hard construction cost and is an aggregate of multiple project elements including the design fee and construction management, see table below for breakdown

Soft Cost Summary Table:

Item Description	% Of Hard Cost
Maintain and Deliver Project Record Documents	0.50%
Sweeping and Flagging	2.50%
Survey Services	2.50%
Mobilization - Insurance, Bonds, etc.	3.00%
Mobilization	6.00%
Demobilization	2.00%
Temporary Air and Water Pollution, Soil Erosion, and Siltation Control	2.50%
Contractor Quality Control	2.50%
Permitting	5.00%
Construction Barricades, Delineators, Signs and Construction Fencing	4.00%
Soft Costs (Design, Controls, CM, etc.)	20.00%
Soft Cost Aggregate	50.50%

CIP #1 28L EMAS and Blast Pad



CIP #1 28L EMAS and Blast Pad

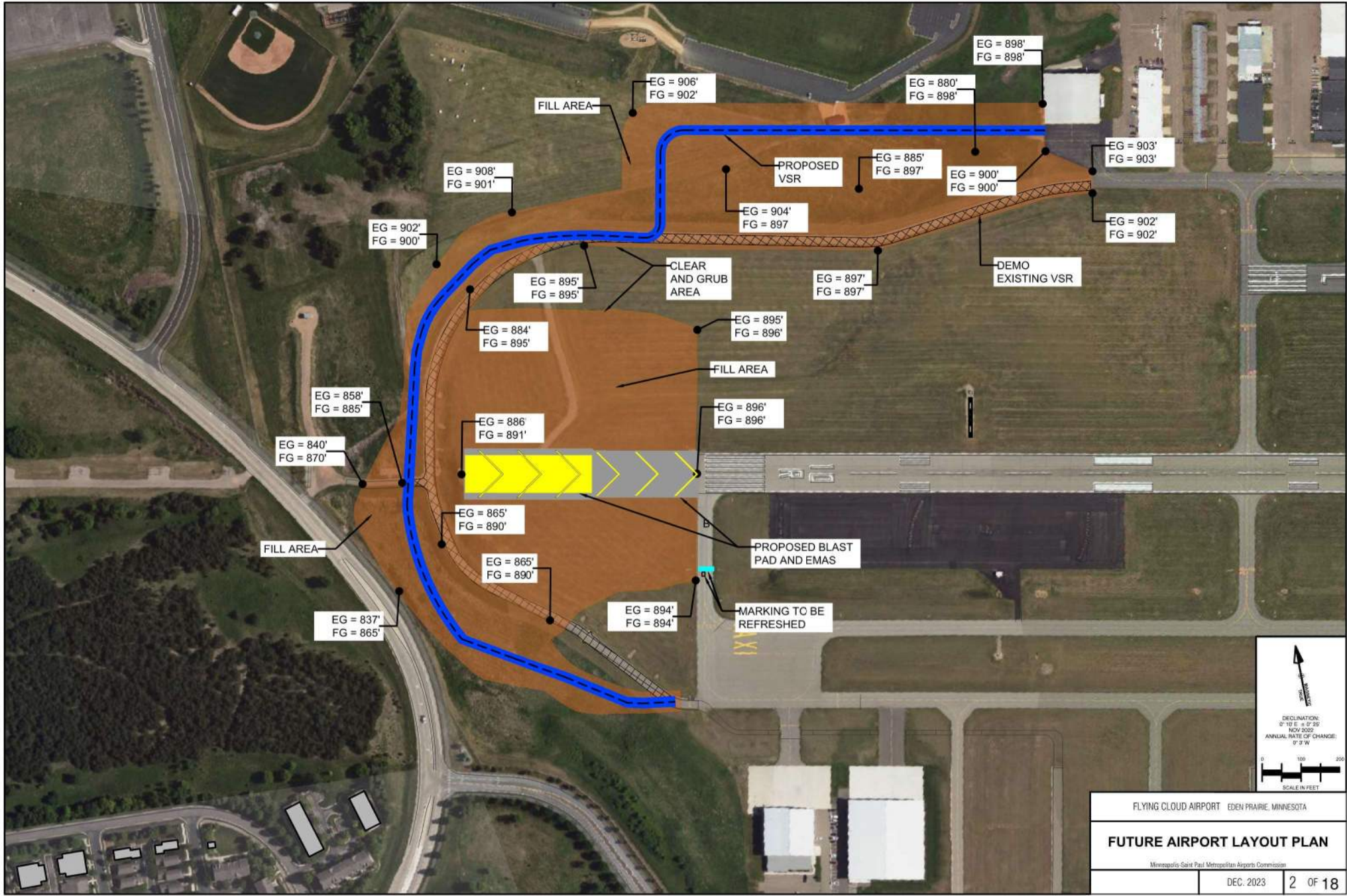
TOTAL: \$ 10,695,340

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Install EMAS	33,000	SF	\$ 300.00	\$ 9,900,000.00
CIVIL	Clearing and Grubbing	11,463	SY	\$ 6.00	\$ 68,776.67
CIVIL	Unclassified Excavation (P-152)	2,868	CY	\$ 40.00	\$ 114,728.77
CIVIL	Aggregate Base Course (P-208)	1,869	CY	\$ 65.00	\$ 121,496.44
CIVIL	Install Asphalt Concrete (P-401)	2,199	TON	\$ 210.00	\$ 461,734.72
CIVIL	Tack Coat (P-603)	8,369	SY	\$ 2.50	\$ 20,923.61
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	2,070	SF	\$ 2.50	\$ 5,175.00
CIVIL	Furnish and Install Permanent Pavement Marking - Black	1,002	SF	\$ 2.50	\$ 2,505.00
				TOTAL:	\$ 10,695,340

Assumptions and Notes

- Blast pad section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- EMAS unit pricing provided by Runway Safe Inc. (December 2023).
- Grading assumes shallow earth movement to eliminate drainage troughs.

CIP #2 10R EMAS and Blast Pad; West Grading: VSR Relocation



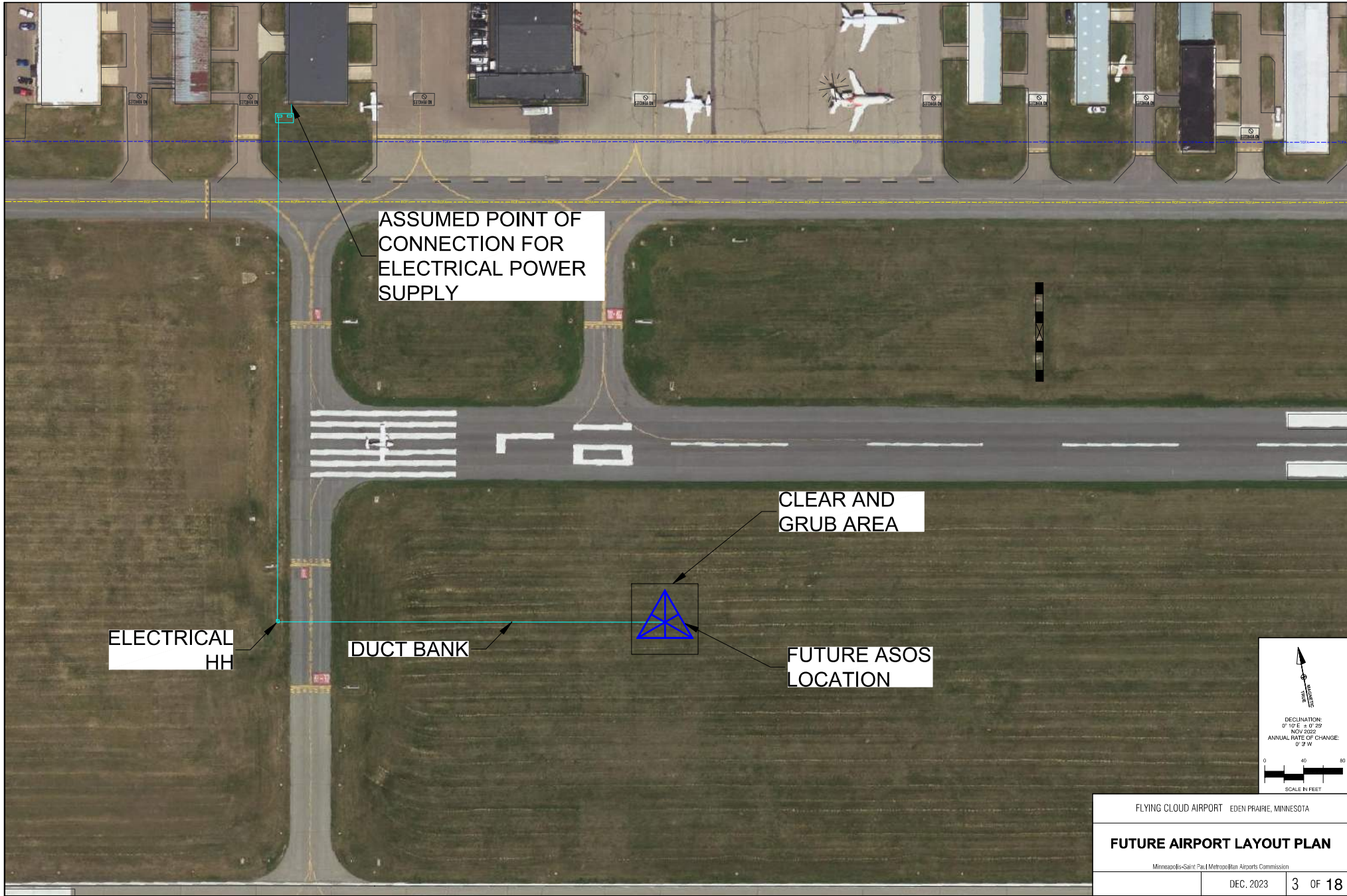
CIP #2 10R EMAS and Blast Pad; West Grading: VSR Relocation

						TOTAL: \$ 21,721,256
Category	Item Description	QTY	UOM	Unit Price	Extension	
CIVIL	Install EMAS	33,000	SF	\$ 300.00	\$ 9,900,000.00	
CIVIL	Remove Variable Depth Asphalt Pavement	8,114	SY	\$ 8.50	\$ 68,971.46	
CIVIL	Clearing and Grubbing	90,431	SY	\$ 6.00	\$ 542,583.33	
CIVIL	Unclassified Excavation (P-152)	26,999	CY	\$ 40.00	\$ 1,079,951.29	
CIVIL	Common Embankment	250,575	CY	\$ 35.00	\$ 8,770,118.52	
CIVIL	Install Asphalt Concrete (P-401)	4,112	TON	\$ 210.00	\$ 863,489.69	
CIVIL	Aggregate Base Course (P-208)	3,403	CY	\$ 65.00	\$ 221,185.97	
CIVIL	Aggregate Base Course (P-209)	1,534	CY	\$ 92.00	\$ 141,099.04	
CIVIL	Aggregate Subbase Course (P-154)	1,534	CY	\$ 55.50	\$ 85,119.53	
CIVIL	Tack Coat (P-603)	8,369	SY	\$ 2.50	\$ 20,923.61	
CIVIL	Subgrade Preparation - (Proof Roll)	8,369	SY	\$ 1.85	\$ 15,483.47	
CIVIL	Furnish and Install Permanent Thermoplastic Surface Painted Signs (Red/White/Black)	77	SF	\$ 50.00	\$ 3,850.00	
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	2,230	SF	\$ 2.50	\$ 5,575.00	
CIVIL	Furnish and Install Permanent Pavement Marking - Black	1,162	SF	\$ 2.50	\$ 2,905.00	
CIVIL	Furnish and Install Permanent Pavement Marking - White	2,008	SF	\$ 2.50	\$ 5,020.50	
CIVIL	Relocate and Install ALS (MALSR)	1	LS	\$ 1,700,000.00	\$ 1,700,000.00	
CIVIL	Relocate and Install Glideslope	1	LS	\$ 1,200,000.00	\$ 1,200,000.00	
TOTAL:						\$ 21,721,256

Assumptions and Notes

- Blast pad section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- EMAS unit pricing provided by Runway Safe Inc. (December 2023).
- VSR section taken from VNY, see details sheet.
- MALSR installation price taken from LAX Rwy 25L and Center Twy (LAX 25L) (August 2005). No price variance between LAX and FCM was applied to this as it is cost from 2005.
- Glideslop installation price taken from LAX Rwy 25L and Center Twy (LAX 25L) (August 2005). No price variance between LAX and FCM was applied to this as it is cost from 2005.
- No DTM available: Grading to accommodate blast pad and proposed VSR utilized rough elevations from GoogleEarth.

CIP #3 ASOS Relocation



CIP #3 ASOS Relocation

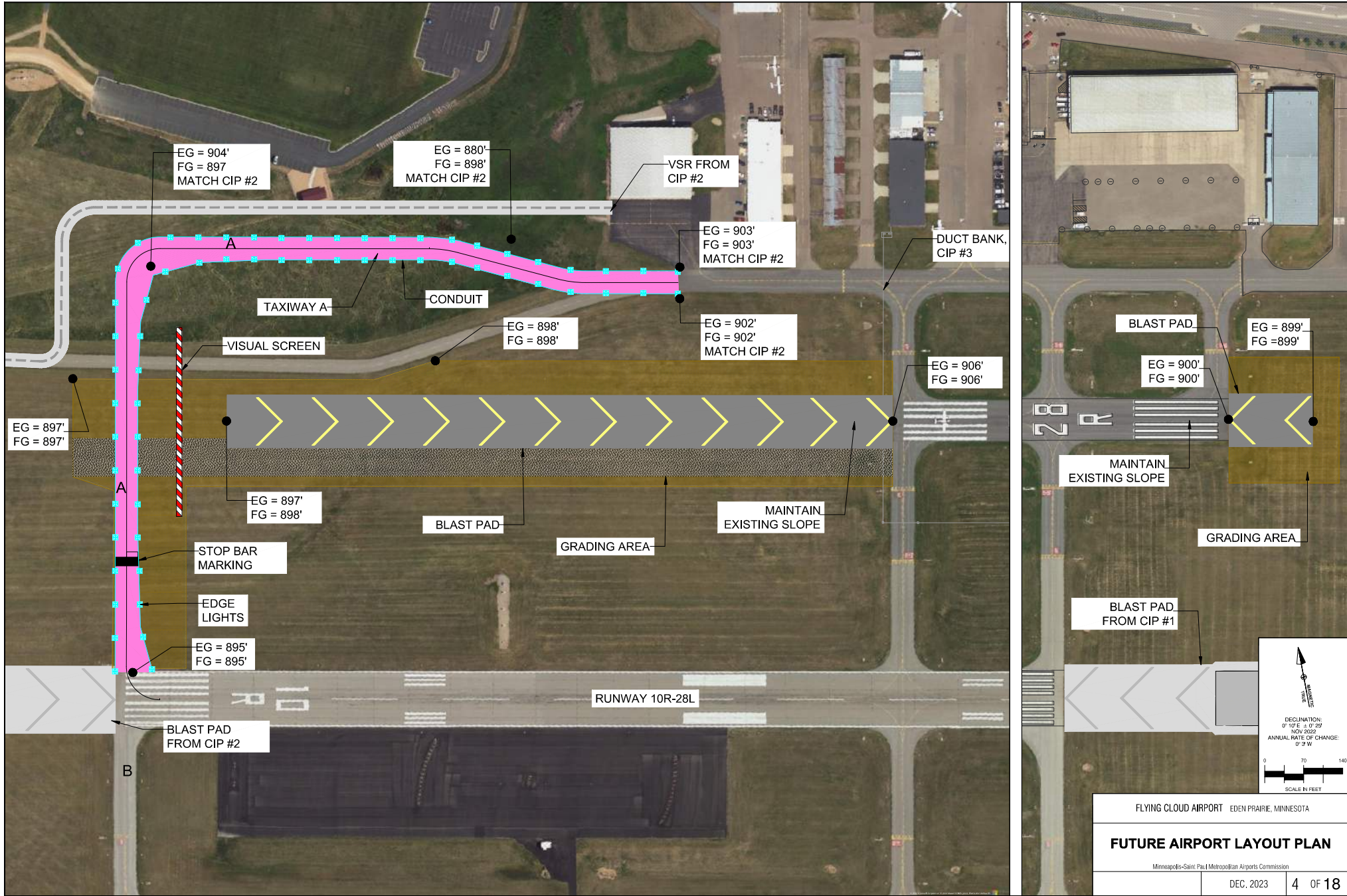
TOTAL: \$ 499,765

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Relocate ASOS	1	LS	\$ 350,000.00	\$ 350,000.00
CIVIL	Subgrade Preparation	11	SY	\$ 2.25	\$ 25.00
CIVIL	Clearing and Grubbing	556	SY	\$ 6.00	\$ 3,333.33
CIVIL	Unclassified Excavation (P-152)	6	CY	\$ 40.00	\$ 222.22
CIVIL	Structural Concrete	6	CY	\$ 1,525.00	\$ 8,472.22
Electrical	Misc. Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
Electrical	Handhole	2	EA	\$ 2,000.00	\$ 4,000.00
Electrical	#6, 600V Cable, Installed in Duct	2,775	LF	\$ 3.50	\$ 9,712.50
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	925	LF	\$ 80.00	\$ 74,000.00
				TOTAL:	\$ 499,765

Assumptions and Notes

- ASOS relocation installation price taken from LAX North Airfield Exit Taxiway Project (November 2022)
- Power sources assumes shortest path to nearby structure.
- Misc. Electrical accounts for unknowns regarding the point of connection and cost to jack and bore under pavement.

CIP #4 Taxiway Alpha Extension



CIP #4 Taxiway Alpha Extension

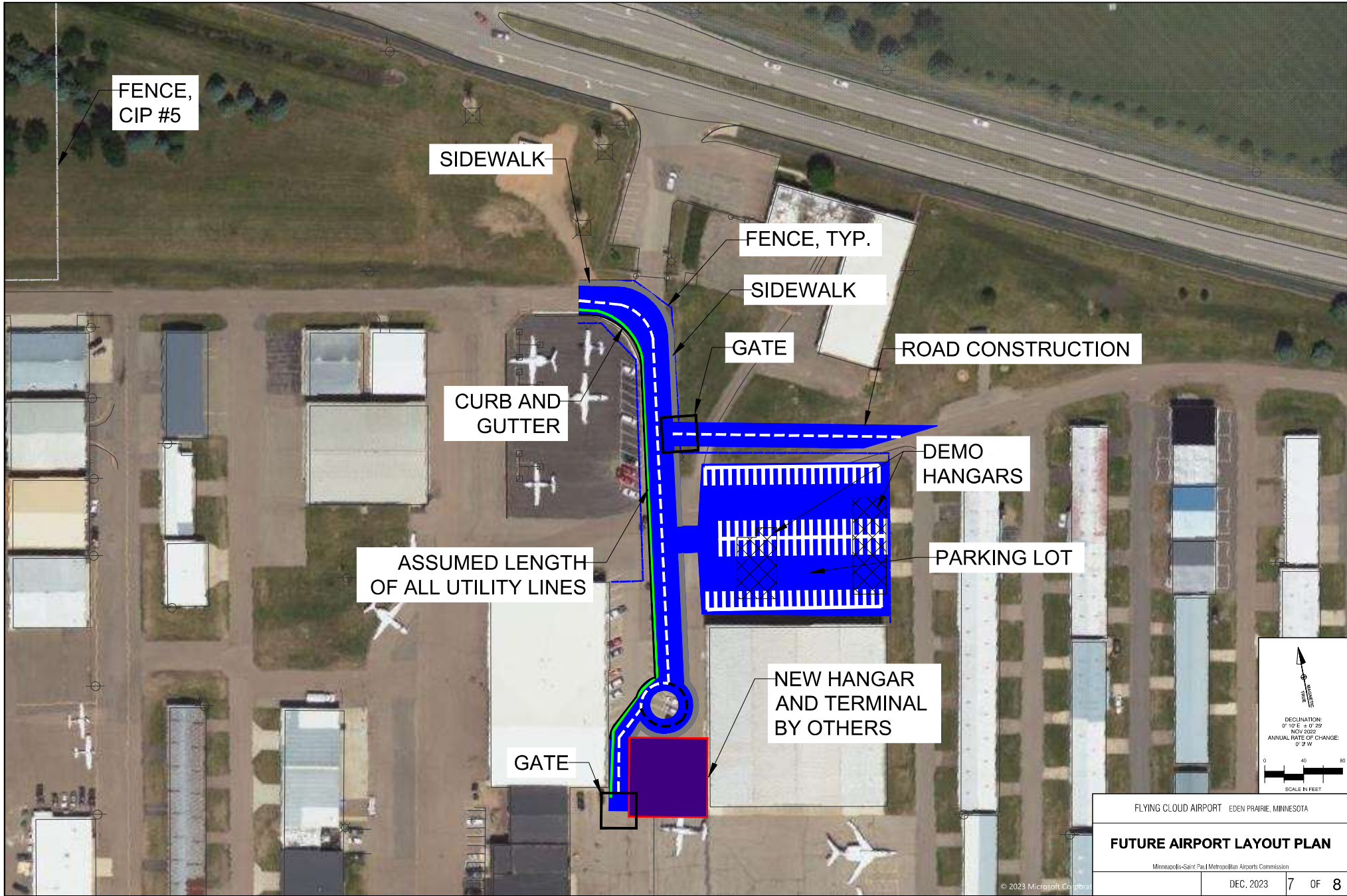
TOTAL: \$ 4,891,751

Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	24,208	SY	6	\$ 145,246.00
CIVIL	Unclassified Excavation (P-152)	13,401	CY	40	\$ 536,029.16
CIVIL	Install Asphalt Concrete (P-401)	6,398	TON	210	\$ 1,343,599.90
CIVIL	Install Asphalt Concrete (P-403)	1,729	TON	205	\$ 354,385.88
CIVIL	Aggregate Base Course (P-208)	3,171	CY	65	\$ 206,139.89
CIVIL	Aggregate Subbase Course (P-154)	6,236	CY	56	\$ 346,116.50
CIVIL	Subgrade Preparation - (Proof Roll)	22,515	SY	2	\$ 41,653.37
CIVIL	Bi-Axial Geogrid	22,515	SY	6	\$ 135,092.00
CIVIL	Tack Coat (P-603)	36,716	SY	3	\$ 91,788.89
CIVIL	Visual Screen	339	LF	3,428	\$ 1,162,092.00
CIVIL	Visual Screen CIDH Foundation	283	LF	300	\$ 84,750.00
CIVIL	Furnish and Install Permanent Thermoplastic Surface Painted Signs (Red/White/Black)	216	SF	50	\$ 10,800.00
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	8,089	SF	3	\$ 20,221.25
CIVIL	Furnish and Install Permanent Pavement Marking - Black	8,853	SF	3	\$ 22,132.50
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	6,872	LF	32	\$ 219,904.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	69	EA	2,000	\$ 137,440.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	6,872	LF	4	\$ 27,488.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	3,436	LF	2	\$ 6,872.00
TOTAL:					\$ 4,891,751

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Blast pad section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Visual Screen unit pricing provided by Blast Deflector Inc. (December 2023). See details sheet for section view.
- No geotechnical information available: Visual Screen foundation assumed to be founded on 10' long CIDH foundation for every 12' of fence.

CIP #5 Premier Roadway and Gate Alignment (Phase 1)



CIP # Premier Roadway and Gate Alignment (Phase 1)

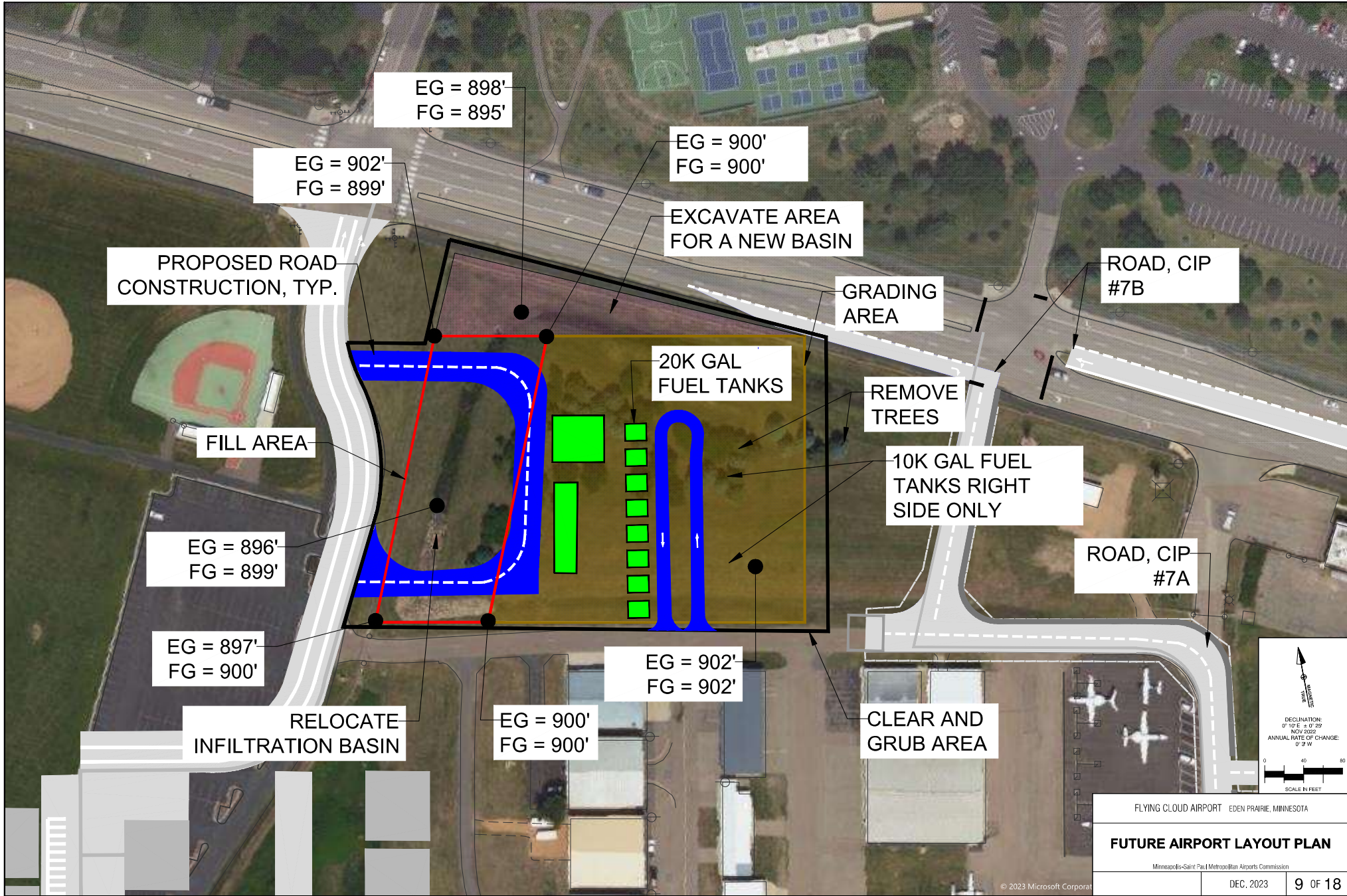
TOTAL: \$ 2,500,866

Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Demo Structure (Hangar)	6,165	SF	\$ 15.00	\$ 92,475.00
CIVIL	Unclassified Excavation (P-152)	30,542	CY	\$ 40.00	\$ 1,221,685.30
CIVIL	Remove Variable Depth Asphalt Pavement	1,697	SY	\$ 8.50	\$ 14,428.28
CIVIL	Install Asphalt Concrete (P-401)	953	TON	\$ 210.00	\$ 200,221.35
CIVIL	Aggregate Base Course (P-208)	1,009	CY	\$ 65.00	\$ 65,580.19
CIVIL	Aggregate Subbase Course (P-154)	1,009	CY	\$ 55.50	\$ 55,995.39
CIVIL	Furnish and Install Permanent Pavement Marking - White	1,278	SF	\$ 2.50	\$ 3,194.11
CIVIL	AOA Fence	975	LF	\$ 84.00	\$ 81,900.00
CIVIL	AOA Gate	2	EA	\$ 44,000.00	\$ 88,000.00
CIVIL	18" RCP Class V Pipe	600	LF	\$ 200.00	\$ 120,000.00
CIVIL	Drainage Inlet Structure	3	EA	\$ 16,000.00	\$ 48,000.00
CIVIL	15" Sewer Pipe	600	LF	\$ 70.00	\$ 42,000.00
CIVIL	12" CML/CMC Steel Pipe	600	LF	\$ 300.00	\$ 180,000.00
CIVIL	Street Lights (Type 9-40)	7	EA	\$ 4,000	\$ 28,000.00
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	2,400	LF	\$ 80.00	\$ 192,000.00
CIVIL	Curb and Gutter	1,090	LF	\$ 40.00	\$ 43,600.00
CIVIL	4" Thick Concrete Sidewalk	297	SY	\$ 80.00	\$ 23,786.67
				TOTAL:	\$ 2,500,866

Assumptions and Notes

- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Hangar, hanger foundation and hanger utility connections by others. Roadway will be uilt to accomate primary utilities such as water, sewer and storm.
- Empty electrical ductbank will be constructed in the roadway. Tenants will be required to establish permanent power with local utility provider.
- Proposed roadway will have concrete curb and gutter both sides and 5' sidewalk on one side.
- Hangars to be demolished to accomdoate proposed parking lot.
- Roadway construction terminates below limits of CIP #7B.

CIP # 6 Fuel Farm



CIP # Fuel Farm

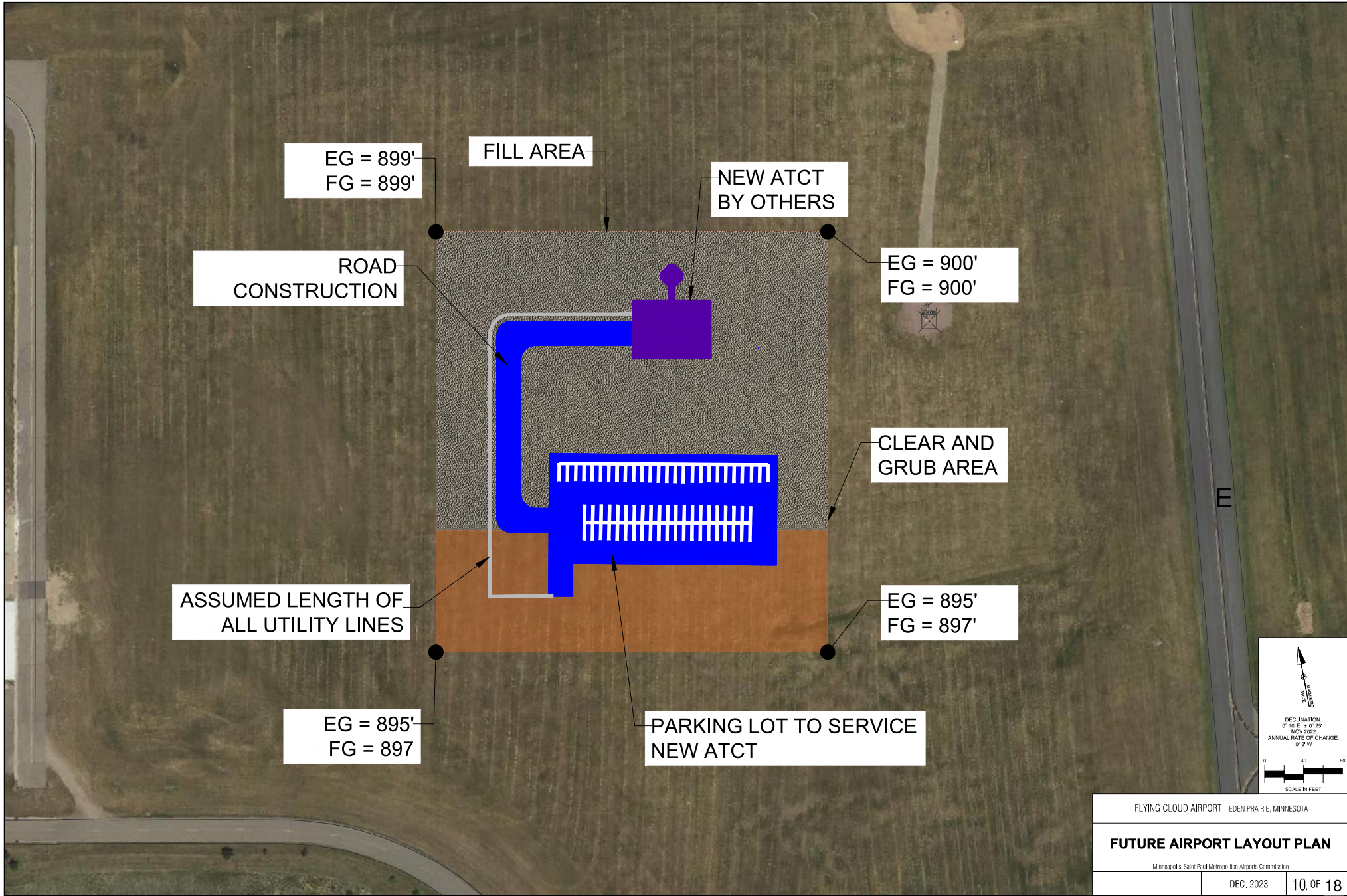
TOTAL: \$ 2,950,988

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	17,977	SY	\$ 6.00	\$ 107,862.00
CIVIL	Unclassified Excavation (P-152)	1,961	CY	\$ 40.00	\$ 78,429.63
CIVIL	Select Topsoil Borrow (CV)	1,888	CY	\$ 48.00	\$ 90,605.33
CIVIL	Remove Trees	40	EA	\$ 2,500.00	\$ 100,000.00
CIVIL	Relocate Infiltration Basin	316	CY	\$ 40.00	\$ 12,657.78
CIVIL	Install Asphalt Concrete (P-401)	429	TON	\$ 210.00	\$ 90,004.43
CIVIL	Aggregate Base Course (P-208)	454	CY	\$ 65.00	\$ 29,479.91
CIVIL	Aggregate Subbase Course (P-154)	454	CY	\$ 55.50	\$ 25,171.31
CIVIL	Install Fuel Tanks	160,000	GAL	\$ 15.10	\$ 2,416,000.00
CIVIL	Furnish and Install Permanent Pavement Marking - White	311	SF	\$ 2.50	\$ 777.50
TOTAL:					\$ 2,950,988

Assumptions and Notes

- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Project assumes AOA fence built in CIP#5
- Project site assumes relocation of existing infiltration basin.
- Fuel farm unit pricing at unit price per gallon from recent fuel farm at AUS (October 2023).

CIP # 7 ATCT Relocation



CIP # ATCT Relocation

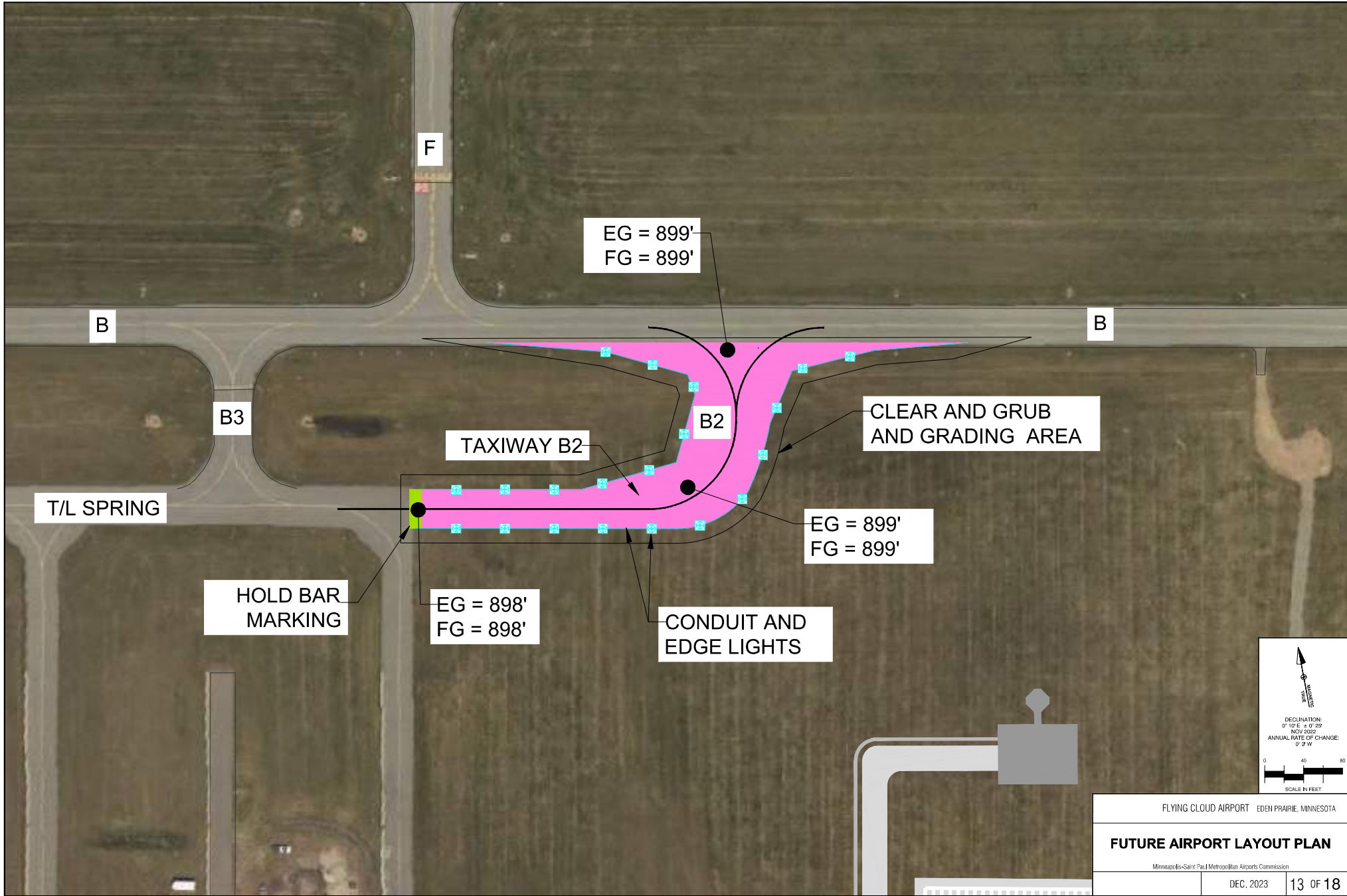
TOTAL: \$ 1,142,961

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	19,271	SY	\$ 6.00	\$ 115,628.67
CIVIL	Unclassified Excavation (P-152)	2,207	CY	\$ 40.00	\$ 88,264.44
CIVIL	Common Embankment	6,424	CY	\$ 35.00	\$ 224,833.52
CIVIL	Install Asphalt Concrete (P-401)	634	TON	\$ 210.00	\$ 133,119.53
CIVIL	Aggregate Base Course (P-209)	671	CY	\$ 92.00	\$ 61,713.26
CIVIL	Aggregate Subbase Course (P-154)	671	CY	\$ 55.50	\$ 37,229.19
CIVIL	18" RCP Class V Pipe	492	LF	\$ 200.00	\$ 98,400.00
CIVIL	Drainage Inlet Structure	1	EA	\$ 16,000.00	\$ 16,000.00
CIVIL	15" Sewer Pipe	492	LF	\$ 70.00	\$ 34,440.00
CIVIL	12" CML/CMC Steel Pipe	492	LF	\$ 300.00	\$ 147,600.00
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	1,968	LF	\$ 80.00	\$ 157,440.00
CIVIL	Street Lights (Type 9-40)	6	EA	\$ 4,000.00	\$ 24,000.00
CIVIL	Furnish and Install Permanent Pavement Marking - White	1,717	SF	\$ 2.50	\$ 4,292.50
TOTAL:					\$ 1,142,961

Assumptions and Notes

- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- ATCT, ATCT foundations and ATCT utility connections by others. Roadway will be uilt to accomate primary utilities such as water, sewer and storm.
- Proposed utilities connect to CIP #15
- Empty electrical ductbank will be constructed in the roadway. Tenant will be required to establish permanent power with local utility provider.

CIP # 8 Taxiway B2



FLYING CLOUD AIRPORT EDEN PRAIRIE, MINNESOTA	
FUTURE AIRPORT LAYOUT PLAN	
Minneapolis-Saint Paul International Airport Commission	
DEC. 2023	13 OF 18

CIP # Taxiway B2

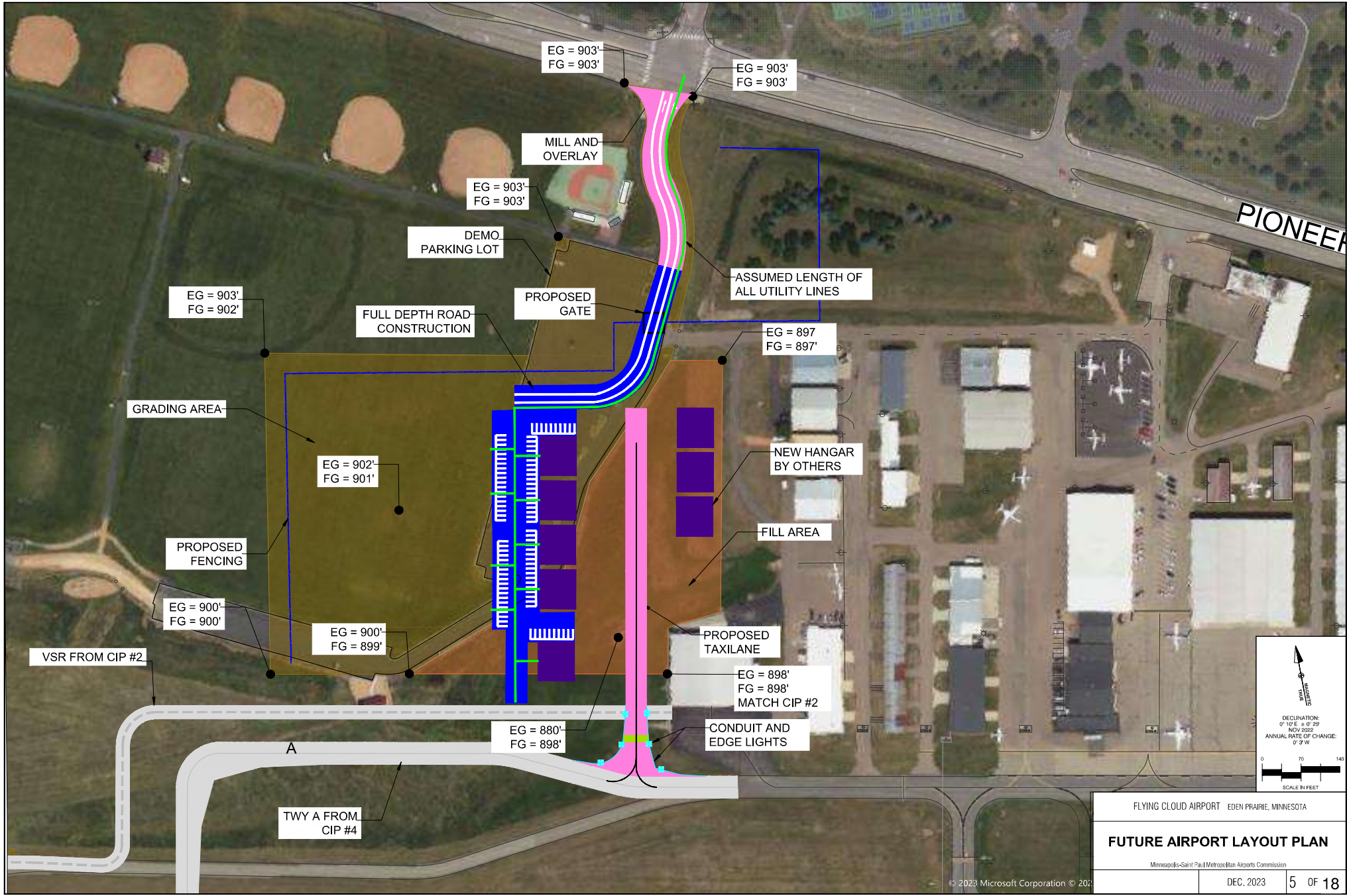
TOTAL: \$ 911,053

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	6,053	SY	\$ 6.00	\$ 36,316.00
CIVIL	Unclassified Excavation (P-152)	3,590	CY	\$ 40.00	\$ 143,591.11
CIVIL	Install Asphalt Concrete (P-401)	943	TON	\$ 210.00	\$ 198,044.81
CIVIL	Install Asphalt Concrete (P-403)	746	TON	\$ 205.00	\$ 152,994.53
CIVIL	Aggregate Subbase Course (P-154)	2,692	CY	\$ 55.50	\$ 149,424.50
CIVIL	Subgrade Preparation - (Proof Roll)	3,590	SY	\$ 1.85	\$ 6,641.09
CIVIL	Bi-Axial Geogrid	3,590	SY	\$ 6.00	\$ 21,538.67
CIVIL	Tack Coat (P-603)	3,590	SY	\$ 2.50	\$ 8,974.44
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	1,781	SF	\$ 2.50	\$ 4,451.25
CIVIL	Furnish and Install Permanent Pavement Marking - Black	2,779	SF	\$ 2.50	\$ 6,946.25
Electrical	Misc. Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	2,490	LF	\$ 32.00	\$ 79,680.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	20	EA	\$ 2,000.00	\$ 40,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	2,490	LF	\$ 4.00	\$ 9,960.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	1,245	LF	\$ 2.00	\$ 2,490.00
TOTAL:					\$ 911,053

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Misc. electrical includes hold bar lights, signage and connection to existing circuits.

CIP #9 Taxilane Uniform (enabling for NW hangars)



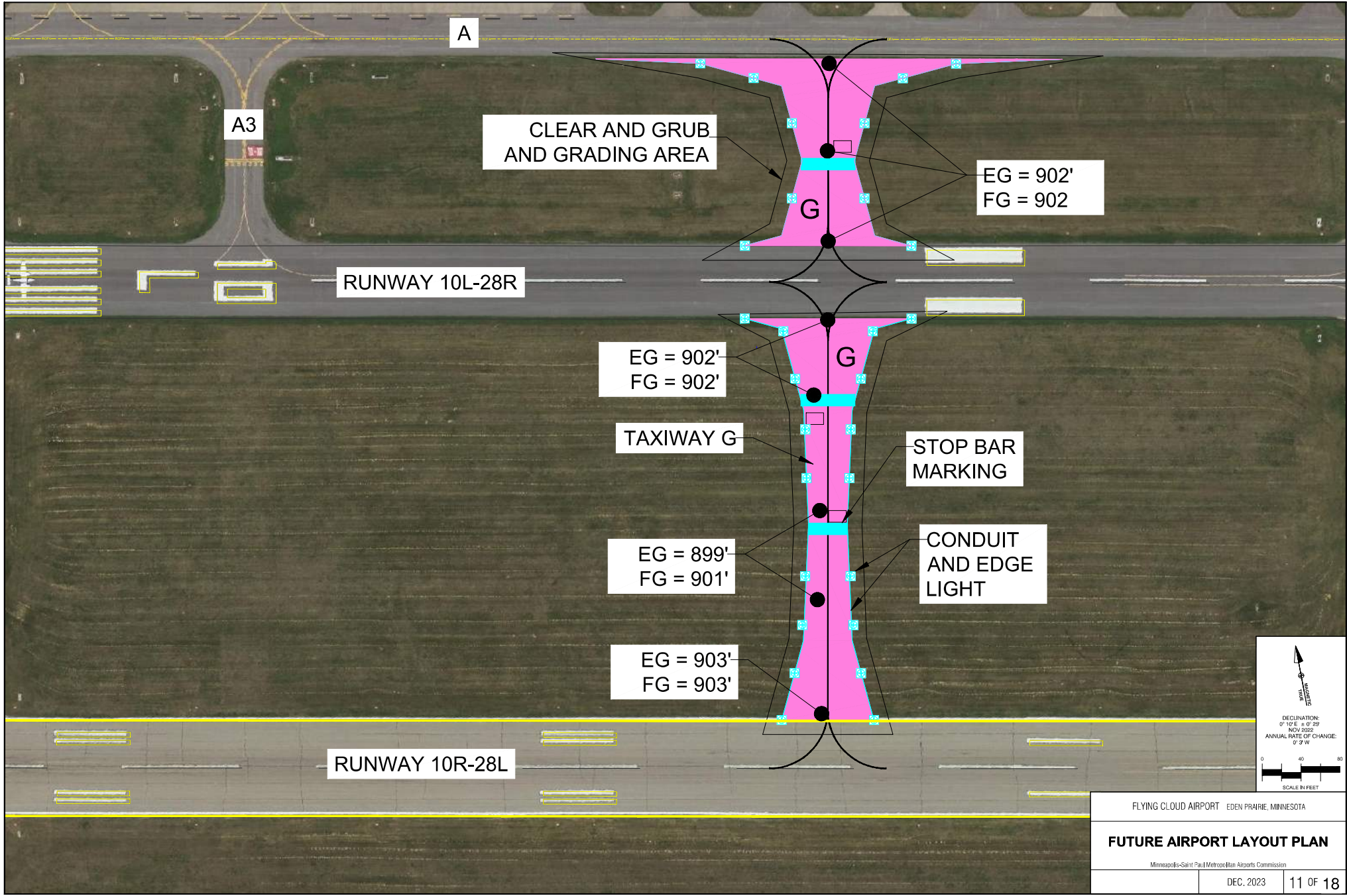
CIP # Taxilane Uniform (enabling for NW hangars)

						TOTAL: \$ 5,175,789
BID ITEMS						
Category	Item Description	QTY	UOM	Unit Price	Extension	
CIVIL	Remove Variable Depth Asphalt Pavement	16,891	SY	\$ 8.50	\$ 143,570.67	
CIVIL	Clearing and Grubbing	22,194	SY	\$ 6.00	\$ 133,163.33	
CIVIL	Unclassified Excavation (P-152)	14,491	CY	\$ 40.00	\$ 579,645.19	
CIVIL	Common Embankment	48,108	CY	\$ 35.00	\$ 1,683,780.00	
CIVIL	Cold Mill Asphalt Pavement for Overlay	1,764	SY	\$ 6.00	\$ 10,586.67	
CIVIL	Install Asphalt Concrete (P-401)	2,207	TON	\$ 210.00	\$ 463,490.41	
CIVIL	Install Asphalt Concrete (P-403)	638	TON	\$ 205.00	\$ 130,841.87	
CIVIL	Aggregate Base Course (P-209)	1,188	CY	\$ 92.00	\$ 109,297.70	
CIVIL	Aggregate Subbase Course (P-154)	3,491	CY	\$ 55.50	\$ 193,723.78	
CIVIL	Tack Coat (P-603)	6,140	SY	\$ 3	\$ 15,350.00	
CIVIL	Subgrade Preparation - (Proof Roll)	3,070	SY	\$ 2	\$ 5,679.50	
CIVIL	Bi-Axial Geogrid	3,070	SY	\$ 6	\$ 18,420.00	
CIVIL	AOA Fence	2,056	LF	\$ 84.00	\$ 172,704.00	
CIVIL	AOA Gate	1	EA	\$ 44,000.00	\$ 44,000.00	
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	898	SF	\$ 2.50	\$ 2,245.00	
CIVIL	Furnish and Install Permanent Pavement Marking - Black	1,447	SF	\$ 2.50	\$ 3,616.25	
CIVIL	Furnish and Install Permanent Thermoplastic Surface Painted Signs (Red/White/Black)	77	SF	\$ 50.00	\$ 3,850.00	
CIVIL	Furnish and Install Permanent Pavement Marking - White	1,608	SF	\$ 2.50	\$ 4,018.82	
CIVIL	18" RCP Class V Pipe	1,349	LF	\$ 200.00	\$ 269,800.00	
CIVIL	Drainage Inlet Structure	3	EA	\$ 16,000.00	\$ 48,000.00	
CIVIL	15" Sewer Pipe	1,404	LF	\$ 70.00	\$ 98,280.00	
CIVIL	12" CML/CMC Steel Pipe	1,404	LF	\$ 300.00	\$ 421,200.00	
CIVIL	Street Lights (Type 9-40)	17	EA	\$ 4,000	\$ 68,000.00	
CIVIL	Curb and Gutter	1,580	LF	\$ 40	\$ 63,200.00	
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	5,616	LF	\$ 80	\$ 449,280.00	
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	758	LF	\$ 32	\$ 24,256.00	
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	6	EA	\$ 2,000	\$ 12,000.00	
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	758	LF	\$ 4	\$ 3,032.00	
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	379	LF	\$ 2	\$ 758.00	
TOTAL:						\$ 5,175,789

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Project assumes a new AOA fence with vehicular gate. AOA fence will be built to accommodate all future hangars in CIP#5 and #6.
- Hangar, hanger foundations and hanger utility connections by others. Roadway will be built to accommodate primary utilities such as water, sewer and storm.
- Empty electrical ductbank will be constructed in the roadway. Tenants will be required to establish permanent power with local utility provider.
- Existing roadway will be demolished in its entirety except for the northern most connection to Pioneer Trail which will be mill and overlay.

CIP #10 Taxiway G North (Crossfield)

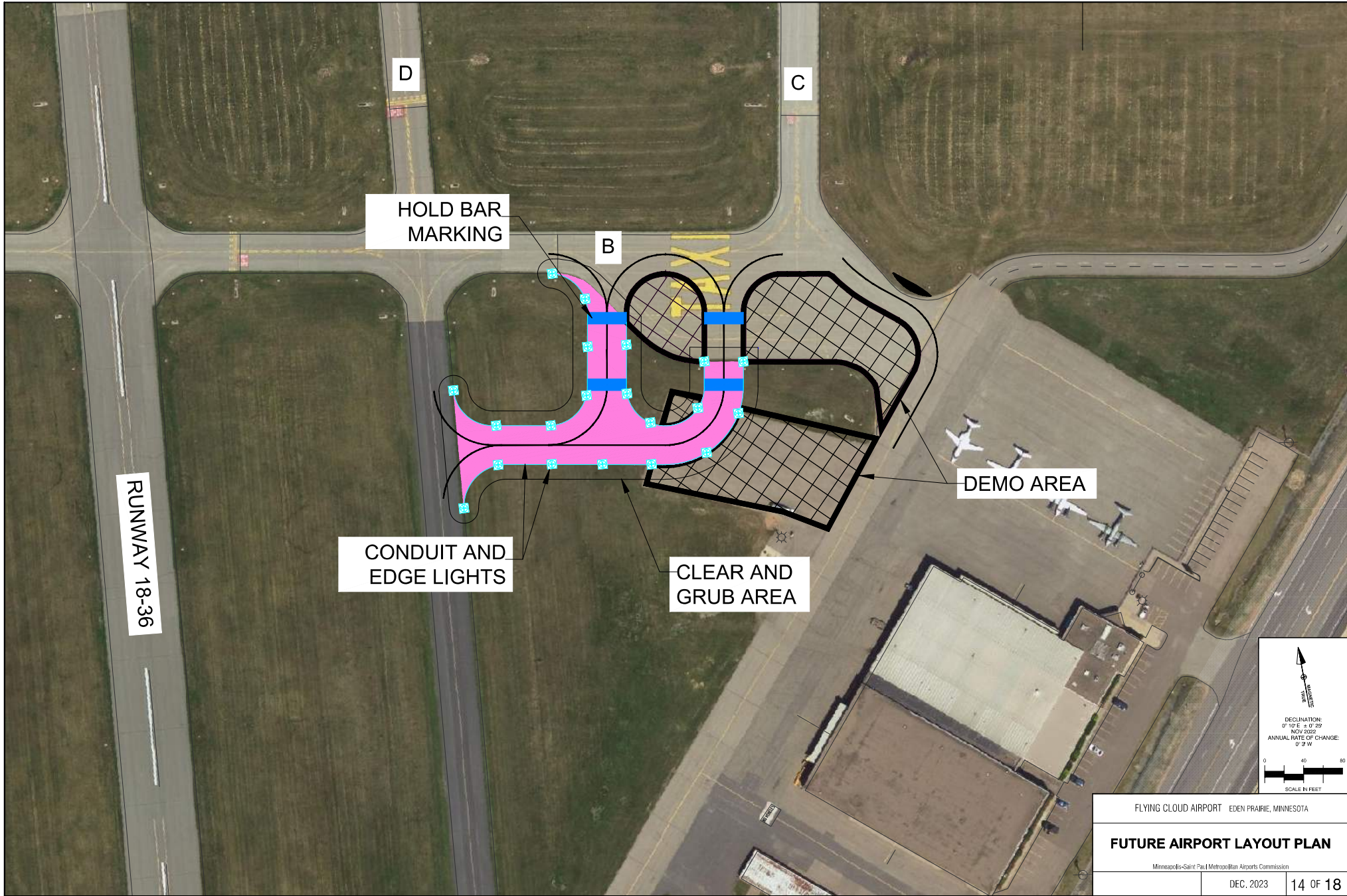


CIP #1 Taxiway G North (Crossfield)

						TOTAL: \$	1,270,845
BID ITEMS							
Category	Item Description	QTY	UOM	Unit Price	Extension		
CIVIL	Clearing and Grubbing	8,330	SY	6	\$ 49,977.33		
CIVIL	Unclassified Excavation (P-152)	4,756	CY	40	\$ 190,240.00		
CIVIL	Install Asphalt Concrete (P-401)	1,249	TON	210	\$ 262,384.24		
CIVIL	Install Asphalt Concrete (P-403)	989	TON	205	\$ 202,698.34		
CIVIL	Aggregate Subbase Course (P-154)	3,567	CY	56	\$ 197,968.50		
CIVIL	Subgrade Preparation - (Proof Roll)	4,756	SY	2	\$ 8,798.60		
CIVIL	Bi-Axial Geogrid	4,756	SY	6	\$ 28,536.00		
CIVIL	Tack Coat (P-603)	9,512	SY	3	\$ 23,780.00		
CIVIL	Furnish and Install Permanent Thermoplastic Surface Painted Signs (Red/White/Black)	648	SF	50	\$ 32,400.00		
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	2,922	SF	3	\$ 7,305.00		
CIVIL	Furnish and Install Permanent Pavement Marking - Black	4,397	SF	3	\$ 10,992.50		
Electrical	Misc. Electrical	1	LS	75,000	\$ 75,000.00		
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	3,372	LF	32	\$ 107,904.00		
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	28	EA	2,000	\$ 56,000.00		
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	3,372	LF	4	\$ 13,488.00		
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	1,686	LF	2	\$ 3,372.00		
TOTAL:						\$	1,270,845

Assumptions and Notes
 - Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
 - Misc. electrical includes hold bar lights, signage and connection to existing circuits.

CIP #11 Runway End 10R Hold Pad



CIP #1 Runway End 10R Hold Pad

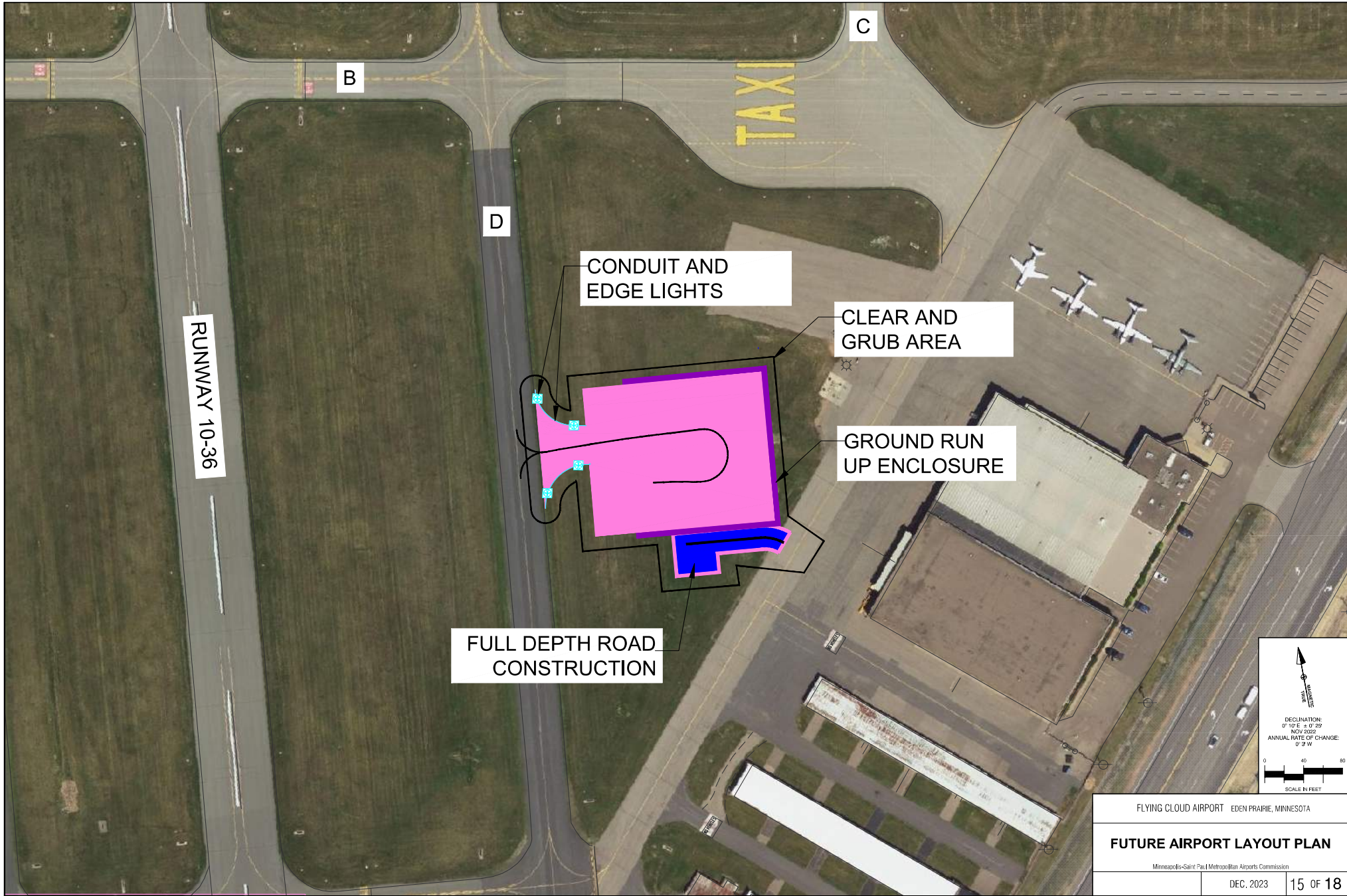
TOTAL: \$787,481

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	4,271	SY	\$ 6.00	\$ 25,624.67
CIVIL	Unclassified Excavation (P-152)	2,224	CY	\$ 40.00	\$ 88,960.00
CIVIL	Remove Variable Depth Asphalt Pavement	4,057	SY	\$ 8.50	\$ 34,481.67
CIVIL	Select Topsoil Borrow (CV)	2,646	CY	\$ 48.00	\$ 127,029.33
CIVIL	Install Asphalt Concrete (P-401)	584	TON	\$ 210.00	\$ 122,702.21
CIVIL	Install Asphalt Concrete (P-403)	467	TON	\$ 205.00	\$ 95,652.24
CIVIL	Aggregate Subbase Course (P-154)	1,668	CY	\$ 55.50	\$ 92,578.63
CIVIL	Subgrade Preparation - (Proof Roll)	2,224	SY	\$ 1.85	\$ 4,114.61
CIVIL	Bi-Axial Geogrid	2,224	SY	\$ 6.00	\$ 13,344.67
CIVIL	Tack Coat (P-603)	4,448	SY	\$ 2.50	\$ 11,120.56
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	2,225	SF	\$ 2.50	\$ 5,562.50
CIVIL	Furnish and Install Permanent Pavement Marking - Black	3,351	SF	\$ 2.50	\$ 8,377.50
Electrical	Misc. Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	1,836	LF	\$ 32.00	\$ 58,752.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	20	EA	\$ 2,000.00	\$ 40,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	1,836	LF	\$ 4.00	\$ 7,344.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	918	LF	\$ 2.00	\$ 1,836.00
TOTAL:					\$787,481

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Misc. electrical includes hold bar lights, signage and connection to existing circuits.

CIP #12 Ground Run-Up Enclosure



CIP #1 Ground Run-Up Enclosure

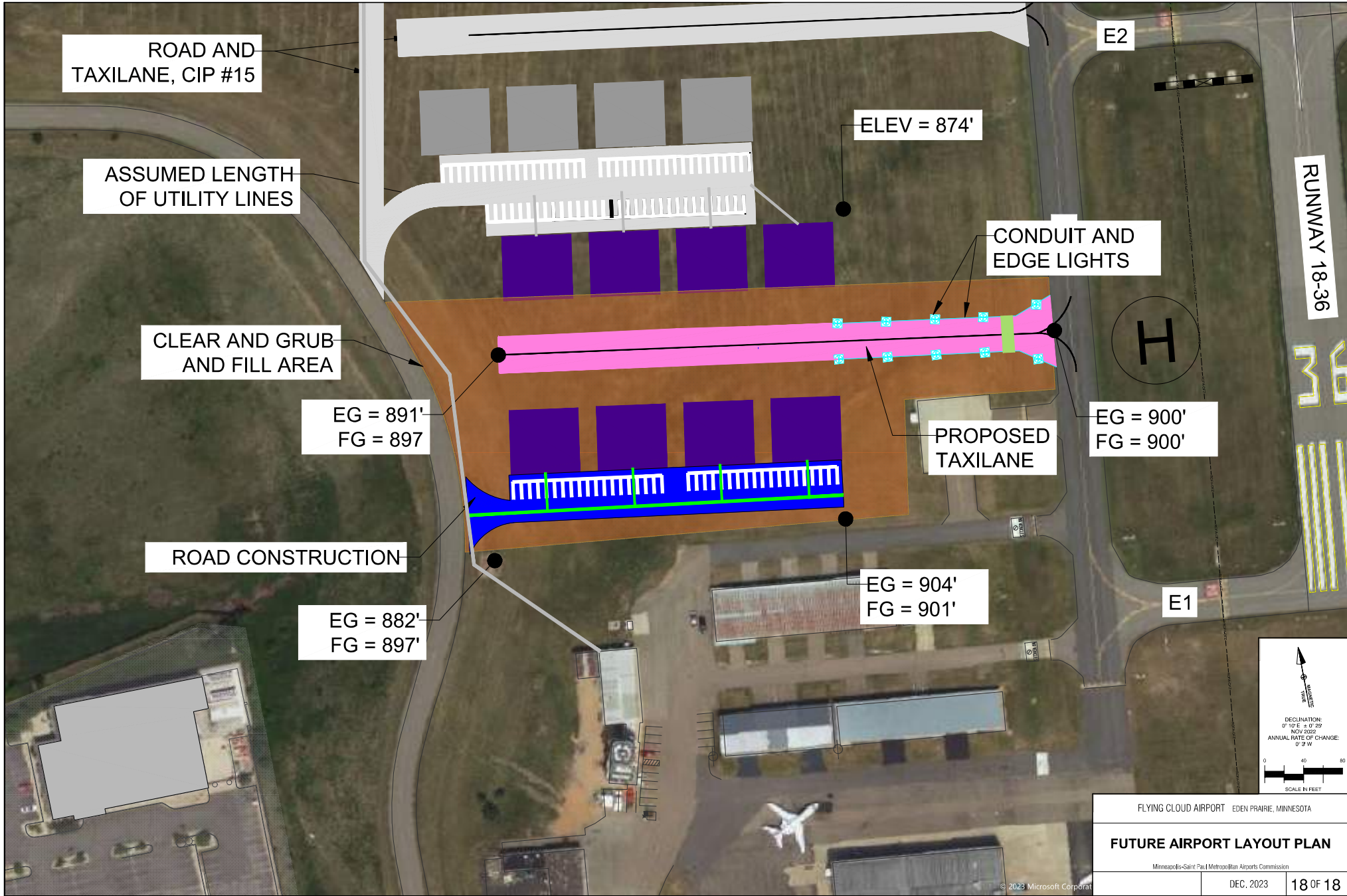
TOTAL: \$ 4,030,492

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	5,730	SY	\$ 6.00	\$ 34,381.33
CIVIL	Unclassified Excavation (P-152)	3,379	CY	\$ 40.00	\$ 135,146.67
CIVIL	Install Asphalt Concrete (P-401)	951	TON	\$ 210.00	\$ 199,616.97
CIVIL	Install Asphalt Concrete (P-403)	702	TON	\$ 205.00	\$ 143,997.08
CIVIL	Aggregate Base Course (P-208)	67	CY	\$ 65.00	\$ 4,329.72
CIVIL	Aggregate Subbase Course (P-154)	2,611	CY	\$ 55.50	\$ 144,898.17
CIVIL	Subgrade Preparation - (Proof Roll)	3,379	SY	\$ 1.85	\$ 6,250.53
CIVIL	Bi-Axial Geogrid	3,379	SY	\$ 6.00	\$ 20,272.00
CIVIL	Tack Coat (P-603)	6,757	SY	\$ 2.50	\$ 16,893.33
CIVIL	Structural Concrete	363	CY	\$ 1,525.00	\$ 553,518.52
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	334	SF	\$ 2.50	\$ 835.00
CIVIL	Furnish and Install Permanent Pavement Marking - Black	596	SF	\$ 2.50	\$ 1,490.00
CIVIL	Ground Runup Enclosure (GRE) Furnish and Install	1	LS	\$ 2,750,000.00	\$ 2,750,000.00
CIVIL	Furnish and Install Permanent Pavement Marking - White	83	SF	\$ 2.50	\$ 206.25
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	288	LF	\$ 32.00	\$ 9,216.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	4	EA	\$ 2,000.00	\$ 8,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	288	LF	\$ 4.00	\$ 1,152.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	144	LF	\$ 2.00	\$ 288.00
				TOTAL:	\$ 4,030,492

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- GRE unit pricing provided by Blast Deflector, Inc. (December 2023). Price assumes static enclosure with standard noise abatement and aesthetic features. See details sheet for plan view and foundation detail.

CIP #13 Taxilane Cessna (enabling for South hangars)



FLYING CLOUD AIRPORT EDEN PRAIRIE, MINNESOTA

FUTURE AIRPORT LAYOUT PLAN

Minneapolis-Saint Paul Metropolitan Airports Commission

DEC. 2023 18 OF 18

CIP #1 Taxilane Cessna (enabling for South hangars)

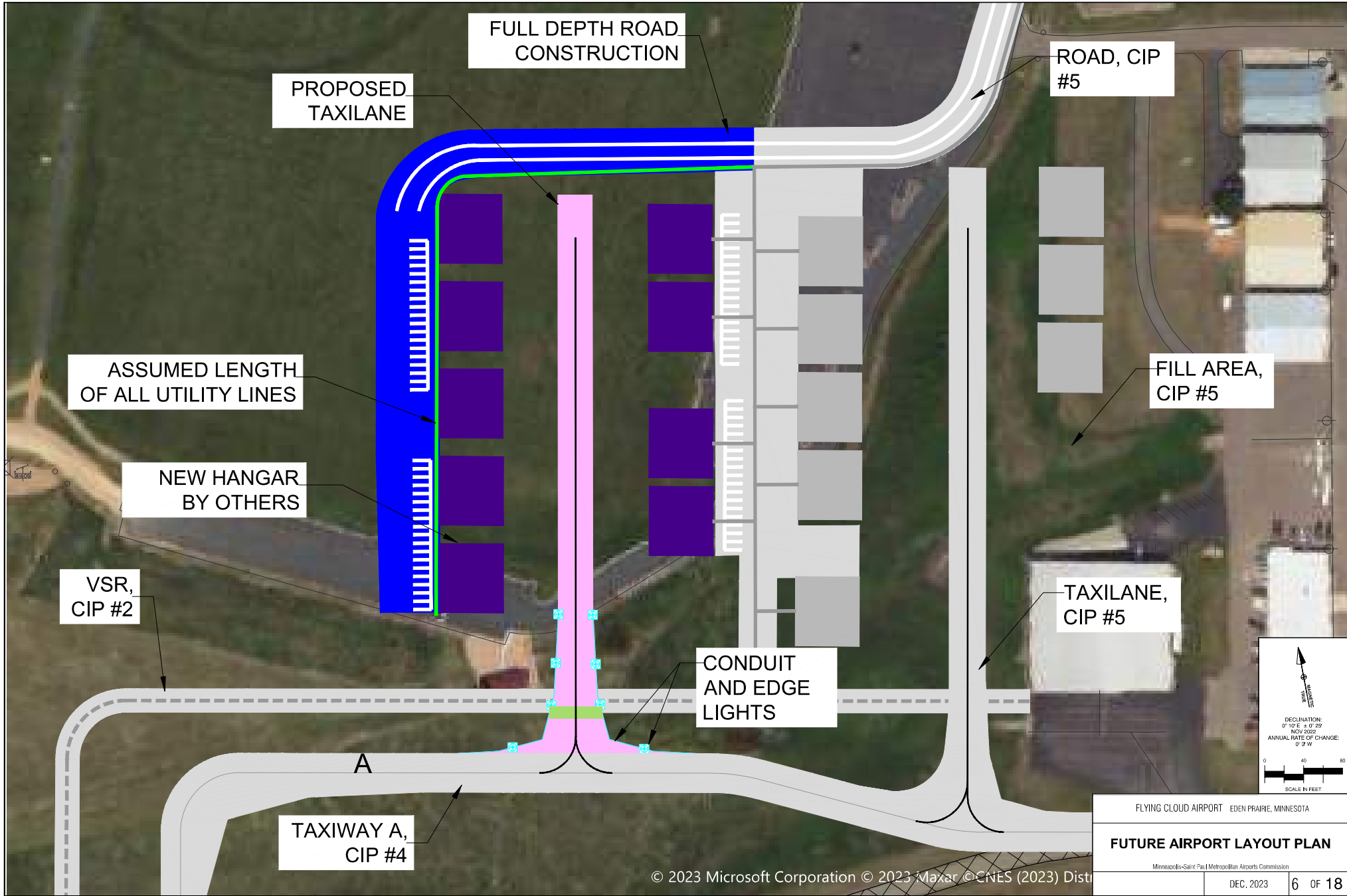
TOTAL: \$ 2,046,703

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	15,720	SY	\$ 6.00	\$ 94,318.00
CIVIL	Unclassified Excavation (P-152)	5,340	CY	\$ 40.00	\$ 213,617.78
CIVIL	Common Embankment	11,837	CY	\$ 35.00	\$ 414,307.10
CIVIL	Install Asphalt Concrete (P-401)	958	TON	\$ 210.00	\$ 201,223.51
CIVIL	Install Asphalt Concrete (P-403)	503	TON	\$ 205.00	\$ 103,101.31
CIVIL	Aggregate Base Course (P-208)	1,232	CY	\$ 65.00	\$ 80,049.91
CIVIL	Aggregate Subbase Course (P-154)	2,156	CY	\$ 55.50	\$ 119,646.69
CIVIL	Subgrade Preparation - (Proof Roll)	2,419	SY	\$ 1.85	\$ 4,475.36
CIVIL	Tack Coat (P-603)	4,838	SY	\$ 2.50	\$ 12,095.56
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	955	SF	\$ 2.50	\$ 2,386.25
CIVIL	Furnish and Install Permanent Pavement Marking - Black	1,519	SF	\$ 2.50	\$ 3,797.50
CIVIL	Furnish and Install Permanent Pavement Marking - White	330	SF	\$ 2.50	\$ 824.18
CIVIL	18" RCP Class V Pipe	386	LF	\$ 200.00	\$ 77,200.00
CIVIL	Drainage Inlet Structure	2	EA	\$ 16,000.00	\$ 32,000.00
CIVIL	15" Sewer Pipe	546	LF	\$ 70.00	\$ 38,220.00
CIVIL	12" CML/CMC Steel Pipe	546	LF	\$ 300.00	\$ 163,800.00
CIVIL	Street Lights (Type 9-40)	5	EA	\$ 4,000.00	\$ 20,000.00
Electrical	Misc. Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	920	LF	\$ 32.00	\$ 29,440.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	10	EA	\$ 2,000.00	\$ 20,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	920	LF	\$ 4.00	\$ 3,680.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	460	LF	\$ 2.00	\$ 920.00
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	4,520	LF	\$ 80.00	\$ 361,600.00
TOTAL:					\$ 2,046,703

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Hangers, hanger foundations and hanger utility connections by others. Roadway will be uilt to accomate primary utilities such as water, sewer and storm.
- Empty electrical ductbank will be constructed in the roadway. Tenants will be required to establish permanent power with local utility provider.
- Utilities connect to nearest permanent structure, this assumes there is an adequate point of connection.
- Misc. electrical includes hold bar lights, signage and connection to existing circuits.

CIP #14 Taxilane Whiskey (enabling for NW hangars)



CIP #14 Taxilane Whiskey (enabling for NW hangars)

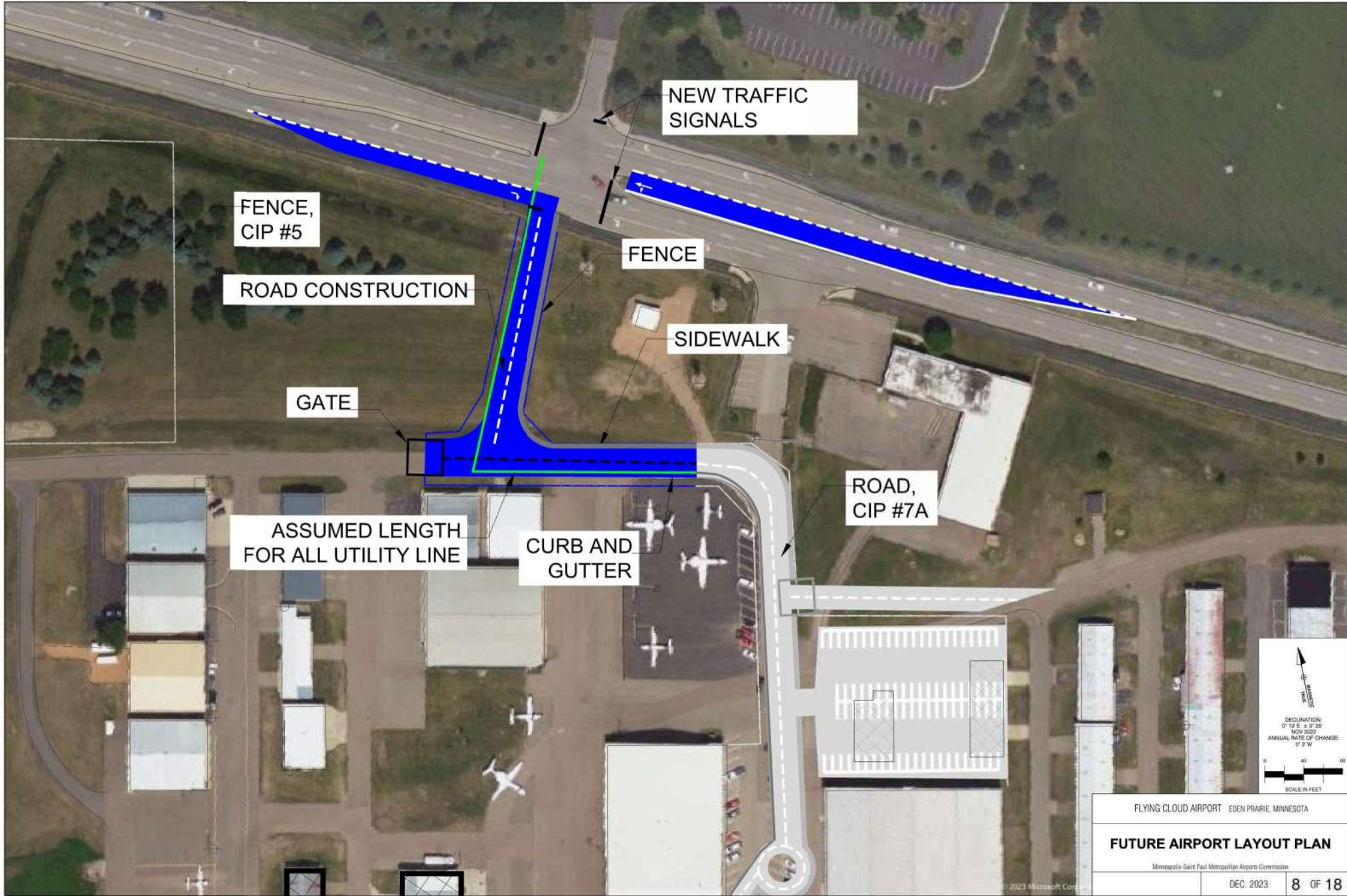
TOTAL: \$ 2,104,825

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	26,902	SY	\$ 6.00	\$ 161,411.33
CIVIL	Unclassified Excavation (P-152)	11,329	CY	\$ 40.00	\$ 453,163.70
CIVIL	Install Asphalt Concrete (P-401)	1,457	TON	\$ 210.00	\$ 306,046.66
CIVIL	Install Asphalt Concrete (P-403)	531	TON	\$ 205.00	\$ 108,930.71
CIVIL	Aggregate Base Course (P-209)	832	CY	\$ 92.00	\$ 76,511.63
CIVIL	Aggregate Subbase Course (P-154)	2,749	CY	\$ 55.50	\$ 152,545.35
CIVIL	Tack Coat (P-603)	5,112	SY	\$ 3	\$ 12,779.44
CIVIL	Subgrade Preparation - (Proof Roll)	2,556	SY	\$ 2	\$ 4,728.39
CIVIL	Bi-Axial Geogrid	2,556	SY	\$ 6	\$ 15,335.33
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	915	SF	\$ 2.50	\$ 2,286.25
CIVIL	Furnish and Install Permanent Pavement Marking - Black	1,449	SF	\$ 2.50	\$ 3,622.50
CIVIL	Furnish and Install Permanent Thermoplastic Surface Painted Signs (Red/White/Black)	77	SF	\$ 50.00	\$ 3,850.00
CIVIL	Furnish and Install Permanent Pavement Marking - White	1,077	SF	\$ 2.50	\$ 2,693.35
CIVIL	18" RCP Class V Pipe	766	LF	\$ 200.00	\$ 153,200.00
CIVIL	Drainage Inlet Structure	2	EA	\$ 16,000.00	\$ 32,000.00
CIVIL	15" Sewer Pipe	764	LF	\$ 70.00	\$ 53,480.00
CIVIL	12" CML/CMC Steel Pipe	764	LF	\$ 300.00	\$ 229,200.00
CIVIL	Street Lights (Type 9-40)	10	EA	\$ 4,000	\$ 40,000.00
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	3,056	LF	\$ 80	\$ 244,480.00
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	880	LF	\$ 32	\$ 28,160.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	8	EA	\$ 2,000	\$ 16,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	880	LF	\$ 4	\$ 3,520.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	440	LF	\$ 2	\$ 880.00
TOTAL:					\$ 2,104,825

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- AOA will be constructed in CIP#5.
- Hangar, hangar foundations and hanger utility connections by others. Roadway will be built to accomate primary utilities such as water, sewer and storm.
- Empty electrical ductbank will be constructed in the roadway. Tenants will be required to establish permanent power with local utility provider.

CIP #15 Premier Roadway and Gate Alignment (Phase 2)



CIP # Premier Roadway and Gate Alignment (Phase 2)

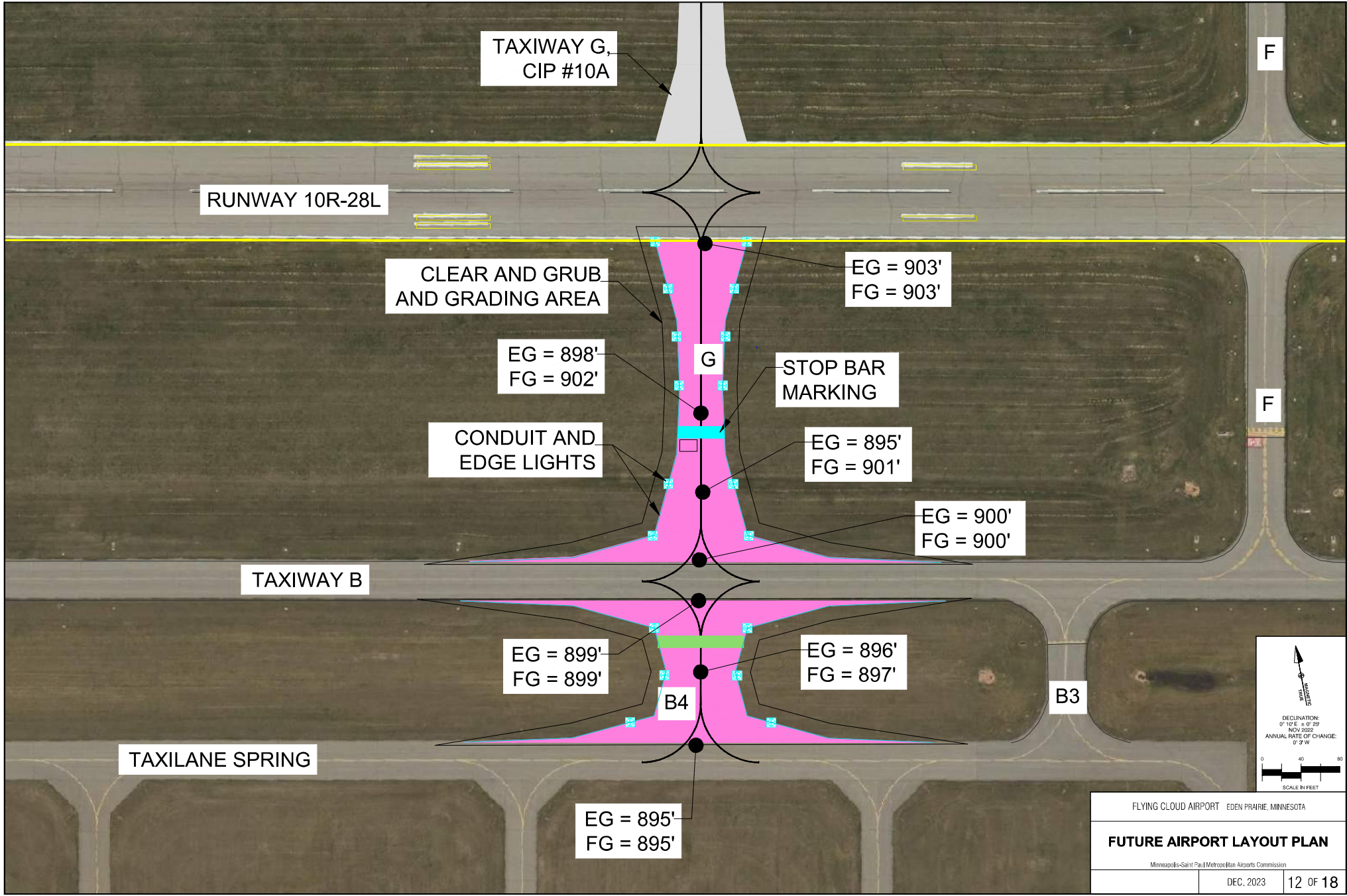
TOTAL: \$ 1,370,997

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Unclassified Excavation (P-152)	3,449	CY	\$ 40.00	\$ 137,940.39
CIVIL	Install Asphalt Concrete (P-401)	530	TON	\$ 210.00	\$ 111,374.55
CIVIL	Aggregate Base Course (P-208)	561	CY	\$ 65.00	\$ 36,479.44
CIVIL	Aggregate Subbase Course (P-154)	561	CY	\$ 55.50	\$ 31,147.83
CIVIL	Curb and Gutter	910	LF	\$ 40.00	\$ 36,400.00
CIVIL	4" Thick Concrete Sidewalk	227	SY	\$ 80.00	\$ 18,133.33
CIVIL	Furnish and Install Permanent Pavement Marking - White	1,084	SF	\$ 2.50	\$ 2,710.00
CIVIL	AOA Fence	938	LF	\$ 84.00	\$ 78,792.00
CIVIL	AOA Gate	1	EA	\$ 44,000.00	\$ 44,000.00
CIVIL	18" RCP Class V Pipe	564	LF	\$ 200.00	\$ 112,800.00
CIVIL	Drainage Inlet Structure	2	EA	\$ 16,000.00	\$ 32,000.00
CIVIL	15" Sewer Pipe	564	LF	\$ 70.00	\$ 39,480.00
CIVIL	12" CML/CMC Steel Pipe	564	LF	\$ 300.00	\$ 169,200.00
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	2,256	LF	\$ 80.00	\$ 180,480.00
CIVIL	Traffic Signalization	1	EA	\$ 450,000.00	\$ 450,000.00
CIVIL	Street Lights (Type 9-40)	7	EA	4,000	\$ 28,000.00
				TOTAL:	\$ 1,370,997

Assumptions and Notes

- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Roadway will be built to include primary utilities such as water, sewer and storm.
- Empty electrical ductbank will be constructed in the roadway. Tenants will be required to establish permanent power with local utility provider.
- Proposed roadway will have concrete curb and gutter both sides and 5' sidewalk on one side.
- Project assumes signalization of the intersection of the proposed roadway and Pioneer Trail and modifications to Pioneer Trail.
- Roadway construction terminates before limits of CIP #7A.

CIP #16 Taxiway G South (Crossfield)

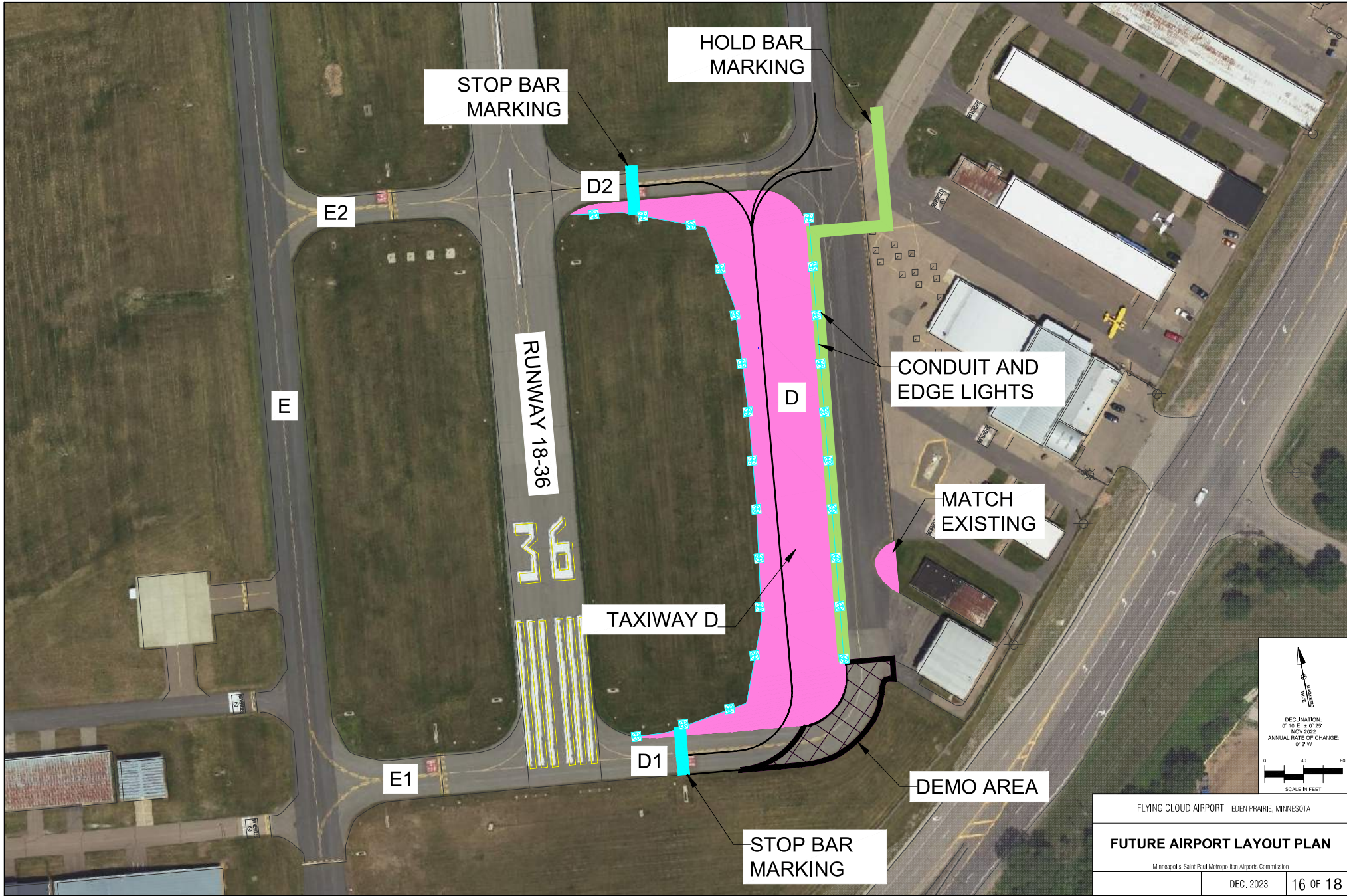


CIP #1 Taxiway G South (Crossfield)

BID ITEMS						TOTAL: \$ 1,276,087
Category	Item Description	QTY	UOM	Unit Price	Extension	
CIVIL	Clearing and Grubbing	8,290	SY	\$ 6.00	\$ 49,741.33	
CIVIL	Unclassified Excavation (P-152)	4,863	CY	\$ 40.00	\$ 194,528.89	
CIVIL	Install Asphalt Concrete (P-401)	1,278	TON	\$ 210.00	\$ 268,299.59	
CIVIL	Install Asphalt Concrete (P-403)	1,011	TON	\$ 205.00	\$ 207,268.10	
CIVIL	Aggregate Subbase Course (P-154)	3,647	CY	\$ 55.50	\$ 202,431.63	
CIVIL	Subgrade Preparation - (Proof Roll)	4,863	SY	\$ 1.85	\$ 8,996.96	
CIVIL	Bi-Axial Geogrid	4,863	SY	\$ 6.00	\$ 29,179.33	
CIVIL	Tack Coat (P-603)	9,726	SY	\$ 2.50	\$ 24,316.11	
CIVIL	Furnish and Install Permanent Thermoplastic Surface Painted Signs (Red/White/Black)	216	SF	\$ 50.00	\$ 10,800.00	
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	3,278	SF	\$ 2.50	\$ 8,195.00	
CIVIL	Furnish and Install Permanent Pavement Marking - Black	5,007	SF	\$ 2.50	\$ 12,516.25	
Electrical	Misc. Electrical	1	LS	\$ 75,000.00	\$ 75,000.00	
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	4,022	LF	\$ 32.00	\$ 128,704.00	
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	18	EA	\$ 2,000.00	\$ 36,000.00	
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	4,022	LF	\$ 4.00	\$ 16,088.00	
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	2,011	LF	\$ 2.00	\$ 4,022.00	
TOTAL:					\$ 1,276,087	

Assumptions and Notes
 - Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
 - Misc. electrical includes hold bar lights, signage and connection to existing circuits.

CIP#17 Taxiway D Relocation



CIP #1 Taxiway D Relocation

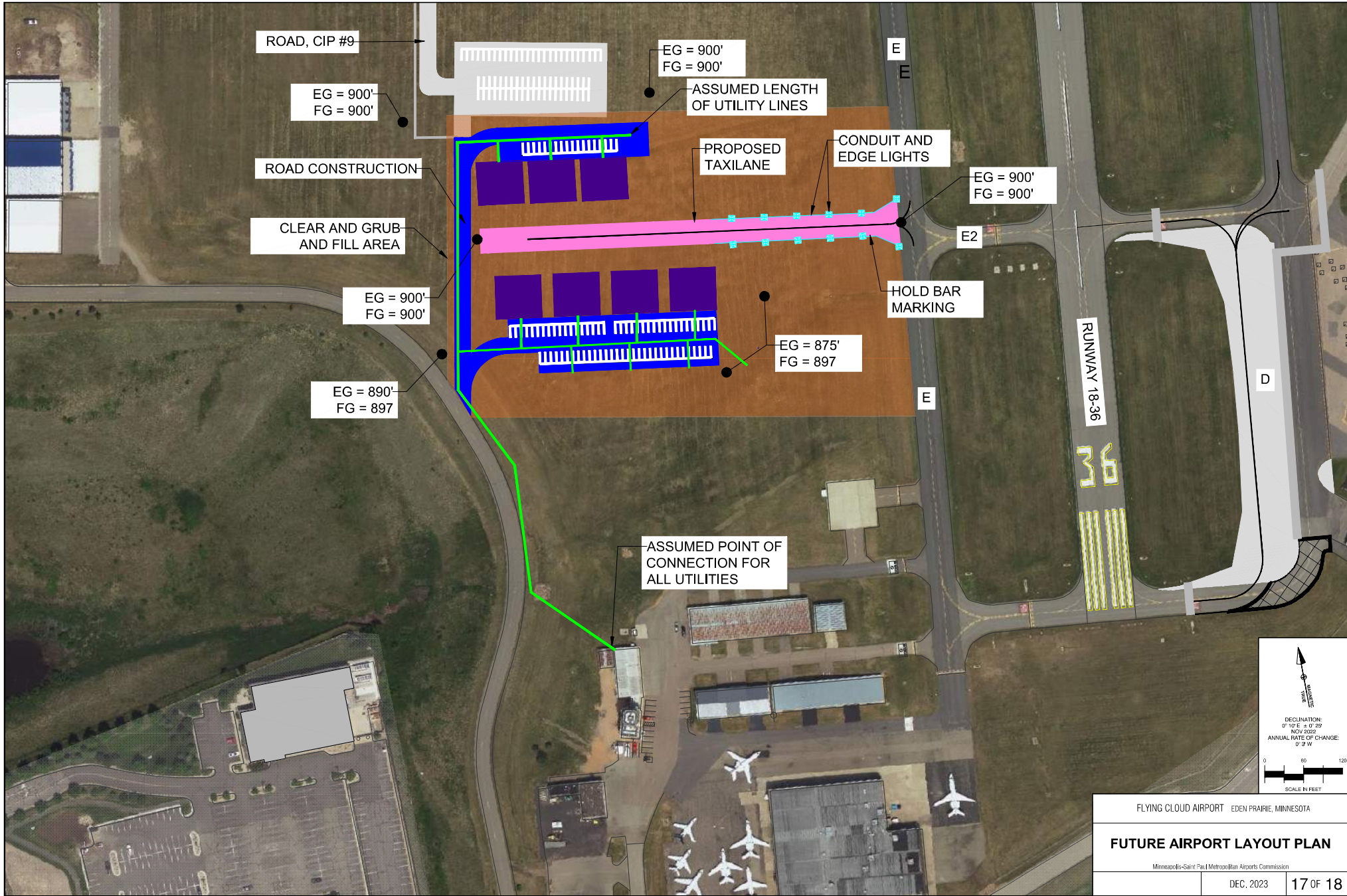
TOTAL: \$ 1,320,129

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	5,658	SY	\$ 6.00	\$ 33,950.00
CIVIL	Remove Variable Depth Asphalt Pavement	637	SY	\$ 8.50	\$ 5,412.61
CIVIL	Select Topsoil Borrow (CV)	425	CY	\$ 48.00	\$ 20,376.89
CIVIL	Unclassified Excavation (P-152)	5,578	CY	\$ 40.00	\$ 223,124.44
CIVIL	Install Asphalt Concrete (P-401)	1,487	TON	\$ 210.00	\$ 312,165.16
CIVIL	Install Asphalt Concrete (P-403)	1,176	TON	\$ 205.00	\$ 241,155.34
CIVIL	Aggregate Subbase Course (P-154)	4,244	CY	\$ 55.50	\$ 235,528.13
CIVIL	Subgrade Preparation - (Proof Roll)	5,658	SY	\$ 1.85	\$ 10,467.92
CIVIL	Bi-Axial Geogrid	5,658	SY	\$ 6.00	\$ 33,950.00
CIVIL	Tack Coat (P-603)	11,156	SY	\$ 2.50	\$ 27,890.56
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	4,735	SF	\$ 2.50	\$ 11,836.25
CIVIL	Furnish and Install Permanent Pavement Marking - Black	5,936	SF	\$ 2.50	\$ 14,840.00
Electrical	Misc. Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	1,336	LF	\$ 32.00	\$ 42,752.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	15	EA	\$ 2,000.00	\$ 30,000.00
Electrical	In-Pavement Taxiway Edge Light with L-868 Base Can and Isolation Transformer in Proposed AC Pavement	10	EA	\$ 2,000.00	\$ 20,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	1,336	LF	\$ 4.00	\$ 5,344.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	668	LF	\$ 2.00	\$ 1,336.00
TOTAL:					\$ 1,320,129

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Misc. electrical includes hold bar lights, signage and connection to existing circuits.

CIP #18 Taxilane Piper (enabling for South hangars)



CIP #1 Taxilane Piper (enabling for South hangars)

TOTAL: \$ 4,084,226

BID ITEMS					
Category	Item Description	QTY	UOM	Unit Price	Extension
CIVIL	Clearing and Grubbing	19,896	SY	\$ 6.00	\$ 119,374.00
CIVIL	Unclassified Excavation (P-152)	5,262	CY	\$ 40.00	\$ 210,480.00
CIVIL	Common Embankment	33,473	CY	\$ 35.00	\$ 1,171,565.69
CIVIL	Install Asphalt Concrete (P-401)	1,597	TON	\$ 210.00	\$ 335,413.62
CIVIL	Install Asphalt Concrete (P-403)	571	TON	\$ 205.00	\$ 117,117.48
CIVIL	Aggregate Base Course (P-208)	2,314	CY	\$ 65.00	\$ 150,435.28
CIVIL	Aggregate Subbase Course (P-154)	2,976	CY	\$ 55.50	\$ 165,141.79
CIVIL	Tack Coat (P-603)	5,446	SY	\$ 2.50	\$ 13,616.11
CIVIL	Subgrade Preparation - (Proof Roll)	2,723	SY	\$ 1.85	\$ 5,037.96
CIVIL	Bi-Axial Geogrid	2,723	SY	\$ 6.00	\$ 16,339.33
CIVIL	Furnish and Install Permanent Pavement Marking - Yellow	1,174	SF	\$ 2.50	\$ 2,933.75
CIVIL	Furnish and Install Permanent Pavement Marking - Black	1,856	SF	\$ 2.50	\$ 4,638.75
CIVIL	Furnish and Install Permanent Pavement Marking - White	1,764	SF	\$ 2.50	\$ 4,409.75
CIVIL	18" RCP Class V Pipe	1,148	LF	\$ 200.00	\$ 229,600.00
CIVIL	Drainage Inlet Structure	2	EA	\$ 16,000.00	\$ 32,000.00
CIVIL	15" Sewer Pipe	2,009	LF	\$ 70.00	\$ 140,630.00
CIVIL	12" CML/CMC Steel Pipe	2,009	LF	\$ 300.00	\$ 602,700.00
CIVIL	Street Lights (Type 9-40)	13	EA	\$ 4,000.00	\$ 52,000.00
Electrical	Misc. Electrical	1	LS	\$ 50,000.00	\$ 50,000.00
Electrical	4-3" Schedule 40 PVC Concrete-Encased Ductbank	7,292	LF	\$ 80.00	\$ 583,360.00
Electrical	1-2" Schedule 80 PVC Concrete-Encased Ductbank	1,336	LF	\$ 32.00	\$ 42,752.00
Electrical	Elevated Taxiway Edge Light (LED) with L-867 Base Can and Isolation Transformer in Proposed AC Pavement	14	EA	\$ 2,000.00	\$ 28,000.00
Electrical	L-824 Cable, 1/C #8 AWG, 5 kV, Type C in Duct or Conduit	1,336	LF	\$ 4.00	\$ 5,344.00
Electrical	Ground Wire 1/C # 6 AWG, Green Insulated Copper	668	LF	\$ 2.00	\$ 1,336.00
TOTAL:					\$ 4,084,226

Assumptions and Notes

- Taxiway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Roadway section taken from Van Nuys 16R and 16L reconstruction project (VNY-Rwy16R-16L), see details sheet.
- Hangers, hanger foundations and hanger utility connections by others. Roadway will be uilt to accomate primary utilities such as water, sewer and storm.
- Empty electrical ductbank will be constructed in the roadway. Tenants will be required to establish permanent power with local utility provider.
- Utilities connect to CIP#16.
- Misc. electrical includes hold bar lights, signage and connection to existing circuits.