GERALD R. FORD INTERNATIONAL AIRPORT AUTHORITY KENT COUNTY, MICHIGAN

C-418 VIEWING PARK EXPANSION

FOOD TRUCK PARKING AND SERVICE AREA

GENERAL NOTES	
 THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS FOR THIS PROJECT. 	
 CONTRACTOR TO CALL MISS DIG (CALL TOLL FREE 1-800-482-7171) THREE WORKING DAYS BEFORE STARTING YOUR PROJECT. 	
 THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 	
GENERAL CONSTRUCTION NOTES	
ALL UTUITES SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMITS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE THE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTUITES IN THIS AREA.	
72 HOURS BEFORE YOU DIG, CALL "MISS DIG" TOLL FREE AT 1-800-482-7171 FOR UTILITY LOCATION ON THE GROUND.	
FOR CONSTRUCTION METHODS NOT MENTONED HERE-IN, THE UMAROYEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE 2012 MENGAN DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION.	
SOIL BORING GENERAL NOTES	
WITHIN EAR SQL BORNO, HERE SHOW, SQL SUPLISE HERE ORINARD BY THE STANDARD PRIETRATION TIST METHOD, ASTM DIS66, WHEREBY A SPUT-SPOON SAMPLER IS DAVID. THERE SUCCESSIVE 6-MICH INSCREMENTS WITH A 16 POUND MECHT FALLING 30 INCRES. THE NUMBER OF BLOWS REQUIRED TO HORE THE SAMPLER TOR EACH INSCREMENTS IN THE SAUL BORN TO HESS.	
GARALAR SOLE (COMESC-GARARD) HAVE WARE THAN SOL OF THER DRY HEGHT BETAINED VA J 200 SEVE; THEY ARE DESCREED AS SAULDEDS. COMERCE GARANC DE SAULD RITE-CAMBER SOLE HAVE LESS THAN SOL OF THER DRY HIGHT RETAINED VA J 200 SEVE; THEY ARE DESCREED AS CART DR CAMPY SULET FIRTY ARE COMESVE, AND SULFS FIRTY ARE NON-COMESVE, AN ADDITION TO CARANDAN, GARALLAR SOLE A BASSE ON THEM HAS SAUL DRIVERT, THEY ARE COMESVE, AND HAS THE FARTHER DRIVED BASE ON THEM RETAINTING AC COMSTERVE, NO KON THEIR RANDON	a 44TH ST GERALD R. FORD INTERNATIONAL
MARE SOC COMPOSITY ORADIDE RANCE (21 KINGS 10 21 KINGS 1000m) DESCRIPTION TENK(5) (27 KINGS 10 24 KINGS 1000m) DESCRIPTION TENK(5) (27 KINGS 10 24 KINGS 1000m) DESCRIPTION TENK(5) (27 KINGS 10 24 KINGS 10 24 KINGS 1000m) GRAVEL COARS 31 KINGS 10 34 KINGS 1000m) TRACE 0 - 0 1 - 0 1 - 0 1 - 0 1 - 0 2 KINGS 10 24 KINGS 10 24 KINGS 1000m) TRACE 10 0 4000 KINGS 1000m) TRACE 20 - 3 5 KING 0000KS 14 KINGS 10 24 KINGS 100 KINGS 1000 KING 1000 KINGS 1000 KINGS 1000 KINGS 1000 KINGS 1000 KING 1000 KINGS 1000 KINGS 10000 KINGS 10000 KINGS 10000 KINGS 10000 KINGS 10000 KINGS 100000 KINGS 100000 KINGS 100000 KINGS 100000 KINGS 100000 KINGS 1000000 KINGS 1000000 KINGS 1000000 KINGS 1000000 KINGS 1000000 KINGS 10000000 KINGS 100000000 KINGS 10000000 KINGS 100000000 KINGS 100000000 KINGS 100000000 KINGS 100000000 KINGS 1000000000 KINGS 1000000000 KINGS 1000000000 KINGS 100000000 KINGS 100000000000 KINGS 10000000000 KINGS 100000000000 KINGS 1000	
SANITARY SEWER GAS GERALD R. FORD INT'L AIRPORT DTE ENERGY 5500 44TH ST SE GRAND RAPIDS, MI 49503 GRAND RAPIDS, MICHIGAN 49512 GRAND RAPIDS, MI 49503 ATTN: LINT NEMETH ATTN: ADAM SCRIPPS PHONE : (616) 233-6000 PHONE : (616) 632-2631	
WATER ELECTRIC-DISTRIBUTION CITY OF GRAND RAPIDS CONSUMERS ENERGY 1900 OAK INDUSTRIAL DR NE 4000 CLAY AVENUE SW GRAND RAPIDS, MI 49505 GRAND RAPIDS, MI 49508 ATTN: JAMES PARR ATTN: ANDERW ALDRICH PHONE : (616) 456-4059 PHONE : (616) 215-3609	
STORM SEWER COMMUNICATION GERALD R. FORD INT'L AIRPORT AT&T 5500 44TH ST SE 955 36TH STREET SE, ROOM 5 GRAND RAPIDS, MICHIGAN 49512 GRAND RAPIDS, MI 49508 ATIN: CLINT NEWETH ATIN: CORY VANTIL PHONE : (616) 233-6000 PHONE : (616) 246-7573	The second secon
OTHER COMMUNICATION CABLE TELEVISION	

PROJECT DATUM INFORMATION

COORDINATE SYSTEM :	STATE PLANE GRID
ZONE :	MICHIGAN SOUTH 2113
ELLIPSOID :	GRS 80
HORIZONTAL DATUM :	NAD 83 (2011)
VERTICAL DATUM :	NAVD 88
GEOID :	GEOID 12B
UNITS :	INTERNATIONAL FEET
PROJECT COMBINED SCAL	E FACTOR (PCSF) = X.XXXXXXXXX
GROUND DISTANCE = GF	RID DISTANCE/PCSF

COMCAST CABLE 3500 PATTERSON AVE GRAND RAPIDS, MICHIGAN 49512 ATTN: JJM ZAWACKI PHONE: (616) 575-0501

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

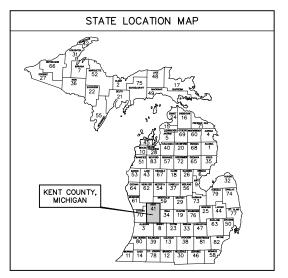
ATTN: PETE WILKE PHONE : (616) 464-5371

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S	HEET INDEX							
SHEET No.	DESCRIPTION							
1	COVER SHEET							
2	QUANTITY SHEET							
3	CONSTRUCTION SAFETY PHASING PLAN							
4	SAFETY AND OPERATIONS & CONSTRUCTION NOTES							
5	TYPICAL SECTIONS							
6	EXISTING CONDITIONS / DEMOLITION							
7	SITE PLAN							
8	MARKING AND SIGNAGE PLAN							
9	SITE DETAILS							
10	GATE DETAILS							
11	ELECTRICAL SITE PLAN							
12	ELECTRICAL DETAILS							



LINE TYPES	SURVEY/TOPOGRAPHIC SYMBOLS								
EXISTING_TOPOGRAPHY 604 BULLONE CONCRETE CURE & CONTOUR DITCH CONCRETE CURE & CUITER CONCRETE CURE & CUITER CONCRETE CURE & CURTER CONCRETE CURE & CURTER CONCRETE CURE & CURTER SANITARY SHER SUDITARY SHER	SURVEY/TOPOGRAPHIC SYMBOLS SENERAL SYMBOLS AIR CONDITIONER BIAIR CONDITIONER CODECUDUOUS TREE CATCH BASIN - RECTANGULAR FRAME COLLEANOUT CONFEROUS TREE FLAG POLE CLANOUT CONFEROUS TREE FLAG POLE CLANOUT CLANO								
CONCRETE CURB & GUTTER PROPOSED UTILITIES SANITARY SENER STORM SEVER WATER MAIN		 VALVE & BOX WATER SERVICE 							
PROPOSED UTILITIES SANITARY SEWER SANITARY FORCE MAIN STORM SEWER	EXISTING EXISTING EXIS BEACON RELL PA	• VALVE & BOX • WALVE & BOX • PROPOSED PROPOS	IL PAPI WINDCONE						
PROPOSED UTILITIES SANITARY SEWER SANITARY FORCE MAIN STORM SEWER	BEACON REIL PA	• VALVE & BOX • WALVE & BOX • PROPOSED PROPOS							

ltem	Item Description	Unit	E	Bid Quantity	1	Change Order					Total Quantity		
Number			Total	Fed	Non-Fed	1	2	3	4	5	Total	Fed	Non-Fed
1	Mobilization, Max 10%	LS	1		1								
2	Safety & Security	LS	1		1								
3	Tree, Rem, 19 inch to 36 inch	Ea	4		4								
4	Tree, Rem, 6 inch to 18 inch	Ea	3		3								
5	Embankment, CIP	Cyd	15,450		15,450								
6	Excavation, Earth	Cyd	2,800		2,800								
7	Soil Erosion and Sedimentation Control Adjustment	Dir	1,500		1,500								
8	Erosion Control, Check Dam, Stone	Ft	60		60								
9	Erosion Control, Silt Fence	Ft	700		700								
10	Subbase, CIP	Cyd	1,350		1,350								

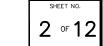
ltem	Item Description	Unit	Bid Quantity				
Number 11	Aggregate Base, 6 inch	Syd	Total 3,100	Fed	No		
11					1		
	Aggregate Surface Cse, 6 inch	Syd	1,080		·		
13	Culv End Sect, Conc, 12 inch	Ea	4				
14	Culv, Cl B, 8 inch	Ft	160		-		
15	Culv, Cl B, Conc, 12 inch	Ft	48				
16	Sewer, Cl III, 12 inch, Tr Det A	Ft	118				
17	Dr Structure Cover, Type E	Ea	2				
18	Dr Structure, 24 inch dia	Ea	2				
19	Underdrain, Subbase, 4 inch	Ft	585				
20	Underdrain, Cleanout	Ea	2				
21	Edge Trimming	Ft	585				
22	HMA, 4EML	Ton	335				
23	HMA, 5EML	Ton	250				
24	Curb and Gutter, Conc, Det F4	Ft	500				
25	Sidewalk, Conc, 4 inch	Sft	12,650		1		
26	Concrete Parking Rail	Ea	54				
27	Chain Link Gate	Ea	1				
28	Post, Steel, 3 pound	Ft	74				
29	Sign, Type IIIA	Sft	20.25		2		
30	Sign, Type IIIB	Sft	30				
31	Sign, Airport, Rem, Salv, Erect	Ea	1				
32	Hard Surface Sign Post	Ea	2				
33	Pipe Bollard, 6Inch	Ea	6		-		
34	Pavt Mrkg, Ovly Cold Plastic, 12 inch,	Ft	312				
35	Cross Hatching, White Pavt Mrkg, Preformed Thermopl,	Ea	2		-		
	Accessible Sym Pavt Mrkg, Waterborne, 4 inch,				-		
36	Yellow Pavt Mrkg, Waterborne, 2nd	Ft	900				
37	Application, 4 inch, Yellow Pavt Mrkg, Waterborne, for Rest	Ft	900		-		
38	Areas, Parks, and Lots, 4 inch, Blue	Ft	185				
39	Riprap, Plain	Syd	27				
40	Fertilizer, Chemical Nutrient, Cl B	Lb	195				
41	Mulch Blanket, High Velocity	Syd	7,475		7		
42	Seeding, Mixture THV	Lb	355				
43	Topsoil Surface, Salv, 4 inch	Syd	7,475		7		
44	Conduit, Schedule 40, 2 inch	Ft	570				
45	Conduit, Schedule 80, 4 inch	Ft	60				
46	Conduit, DB, (1), 1 1/4 inch	LF	120				
47	Conduit, DB, (2), 1 1/4 inch	LF	90				
48	Conduit, DB, (3), 1 1/4 inch	LF	90				
49	Conduit, DB, (4), 1 1/4 inch	LF	50				
50	Conduit, DB, (8), 1 1/4 inch	LF	65				
51	Conduit, DB, (2), 2 inch	LF	20				
52	Feeder Cable in Conduit, 600V, 3#4,	LF	1,260		1		
53	#10G, THWN-2 Service Feeder in Conduit 3 #3/0	LF	80				
54	THWN-2 (2 SETS) HH, (Composite), (17"x 30"x	EA	3		+		
	12"Deep Stackable)		Ľ				

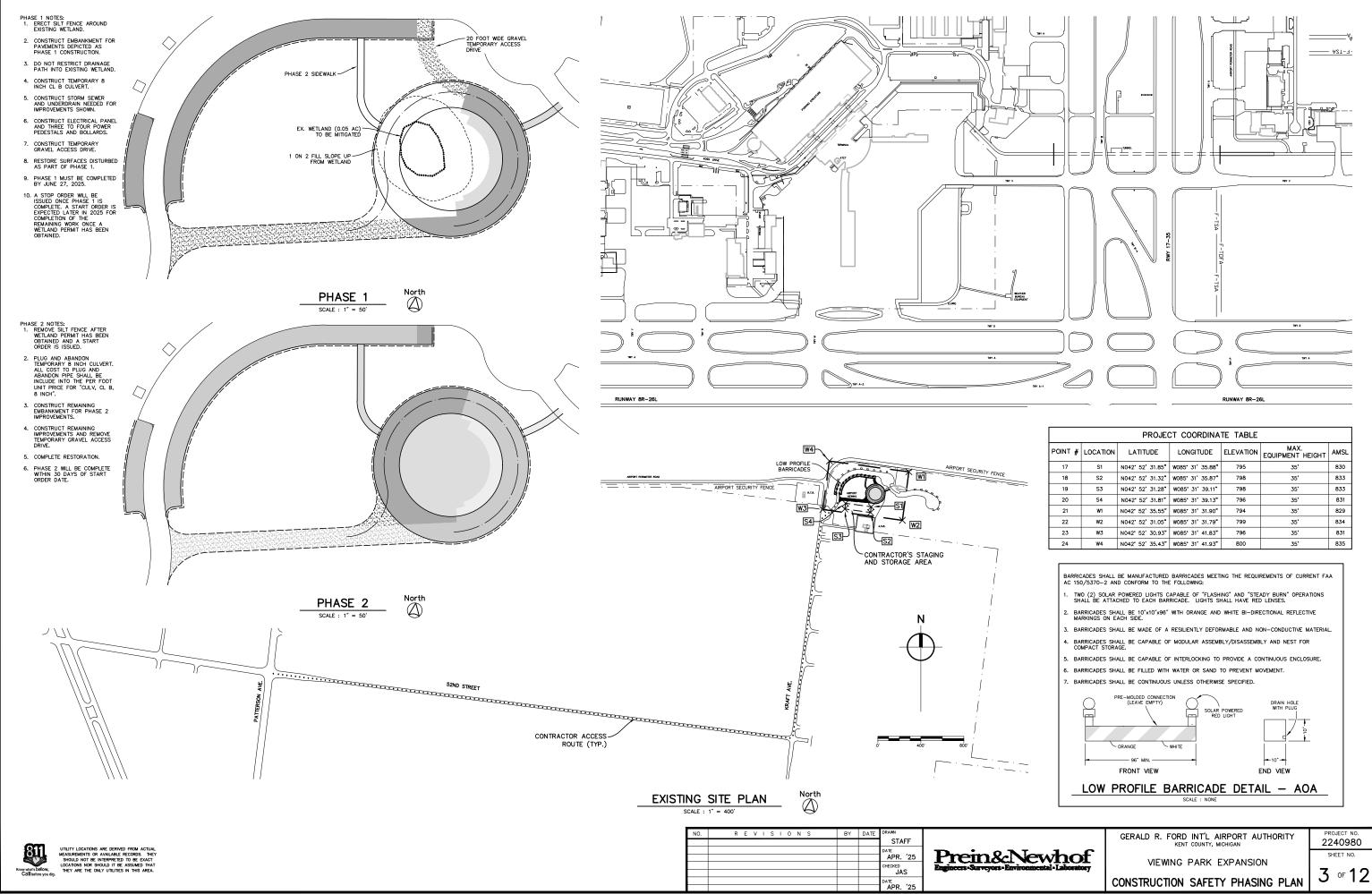
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PROJECT QUANTITIES





PROJECT COORDINATE TABLE								
POINT #	LOCATION	LATITUDE	LONGITUDE	ELEVATION	MAX. EQUIPMENT HEIGHT	AMSL		
17	S1	N042* 52' 31.85"	W085* 31' 35.88"	795	35'	830		
18	S2	N042 52 31.32	W085° 31' 35.87"	798	35'	833		
19	S3	N042 52' 31.28"	W085* 31' 39.11"	798	35'	833		
20	S4	N042 52 31.81"	W085° 31' 39.13"	796	35'	831		
21	W1	N042* 52' 35.55"	W085 31' 31.90"	794	35'	829		
22	W2	N042 52 31.05	W085° 31' 31.79"	799	35'	834		
23	W3	N042* 52' 30.93"	W085* 31' 41.83"	796	35'	831		
24	W4	N042' 52' 35.43"	W085 31' 41.93"	800	35'	835		

SAFETY AND OPERATIONS NOTES:

- THE CONTRACT WILL BE COMPLETED WITHIN THIRTY (30) CALENDAR DAYS OF THE NOTICE TO PROCEED. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL WORK INCLUDING 'PUNCH LIST' WITHIN THAT TIME, LIQUIDATED DAMAGES WILL BE ASSESSED AT THE RATE OF \$800 PER CALENDAR DAY UNTIL
- 2. THE "NOTICE TO PROCEED" IS ANTICIPATED TO BE ISSUED AFTER APRIL 15, 2025.
- THE CONTRACTOR WILL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) TO THE AIRPORT PRIOR TO NOTICE TO PROCEED. A SAMPLE DOCUMENT WILL BE PROVIDED TO THE CONTRACTOR.
- 4. THE CONTRACTOR WILL PERFORM ALL WORK IN ACCORDANCE WITH THE CONSTRUCTION SAFETY PHASING PLANS.
- THE CONTRACTOR WILL COORDINATE HAUL ROUTES, CLOSURES AND SCHEDULES WITH OTHER PROJECTS WHICH MAY BE UNDERWAY DURING THE SAME TIME PERIOD AS THIS CONTRACT. USE OF AIRCRAFT PAVEMENTS FOR CONSTRUCTION WILL NOT BE PERMITTED.
- 6. THE CONTRACTOR'S EQUIPMENT STORAGE AREA WILL BE AT THE LOCATIONS SHOWN. THE CONTRACTOR WILL CONFINE THE STORAGE OF EQUIPMENT AND MATERIALS TO THIS AREA. THE MAXIMUM STORAGE HEIGHT WILL BE AS INDICATED. ALL NON-PAYED AREAS THAT ARE DISTURBED BY CONTRACTOR'S OPERATIONS, LOCATED OUTSIDE OF THE GRADING LIMITS WILL BE RESTORED WITH 4' OF TOPSOIL, SEEDED, AND MULCHED IN ACCORPANCE WITH 4' OF TOPSOIL, SEEDED, AND MULCHED IN ACCORPANCE WITH 4' OF TOPSOIL, SEEDED, AND MULCHED IN ACCORPANCE WITH SECTIONS FOR CONSTRUCTION, AT NO ADDITIONAL COST. ADDITIONAL COST
- 7. CONTRACTOR'S EQUIPMENT WILL BE PARKED WITHIN THE CONTRACTOR'S STAGING AND STORAGE AREA WHEN NOT IN USE AND DURING NON-WORKING HOURS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFETY AND SECURITY OF HIS STORAGE AREA AND ALL CONSTRUCTION AREAS. THE CONTRACTOR WILL CONFINE THE STOCKPILING OF MATERIAL TO THE STAGING AND GYDRACE ABEA STORAGE AREA.
- BARRICADES WILL BE PLACED TO CLOSE PAVEMENTS AS SHOWN ON THE CONSTRUCTION SAFETY PHASING PLAN. PRIOR TO CLOSING ANY PAVEMENTS FOR CONSTRUCTION ACTIVITY, THE CONTRACTOR WILL GIVE MINIMUM 72 HOURS NOTICE, EXCLUDING HOLDAYS AND WEEKENS, TO AIRPORT MANAGER.
- 9. THE CONTRACTOR WILL CONSTRUCT AND MAINTAIN HIS OWN HAUL ROUTES AS NECESSARY TO COMPLETE HIS WORK. HAUL ROUTES MUST BE APPROVED BY THE AIRPORT PRIOR TO CONSTRUCTION. HAUL ROUTES WILL BE RESTORED AS DESCRIBED ABOVE FOR THE CONTRACTOR'S STORAGE AREA.
- 10. THE CONTRACTOR WILL CONFINE HIS OPERATIONS TO THE CONSTRUCTION AREA, AND THE DESIGNATED ACCESS ROUTES.
- 11. MATERIAL TRACKED OR OTHERWISE DEPOSITED ON ACTIVE MATERIAL TRACKED OR OTHERWISS DEPOSITED ON ACTIVE PAVEMENTS BY CONSTRUCTION OPERATIONS WILL BE REMOVED IMMEDIATELY IN ORDER TO PREVENT DAMAGE TO ARCRAFT. ALL FOREIGN OBJECT DEBRIS (FOD) FOUND ALONG RUMWAY AND TAXIWAYS ADJACENT TO WORK AREAS WILL BE SUFFICIENT CAUSE FOR THE OWNERT TO CLOSE THE RUMWAY OR TAXIWAY. SAID OBJECTS WILL BE REMOVED IMMEDIATELY AND PAVEMENTS SWEPT OR VACUDUMED PRIOR TO RE-OPENING.
- ANY PAVEMENT DAMAGED BY CONTRACTOR'S EQUIPMENT WILL BE REPLACED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
- 13. THE CONTRACTOR WILL CONTROL DUST FROM THE CONSTRUCTION OPERATIONS BY VACUUM TYPE SWEEPING, WATERING OR OTHER METHODS AS APPROVED BY THE ENGINEER OR OTHER METHODS AS APPROVED BY THE ENGINEER
- ENVINCER. 14. CONTRACTOR WILL BE RESPONSIBLE FOR HANDLING AND CONTAINING FUEL, OLL AND OTHER HAZARDOUS MATERIALS DELIVERED TO THE AIRPORT BY THE CONTRACTOR FOR CONSTRUCTION OPERATIONS, MATERIALS WILL BE HANDLED IN ACCORDANCE WITH EQLE, MIGHA, EPA, OR OTHER ACENCIES WITH REGULATORY AUTHORITY OVER THE ASSOCIATED MATERIAL. ALL RELEASES OF HAZARDOUS MATERIALS, WILL BE REPORTED TO AIRPORT MANAGER IMMEDIATELY AND CLEANED UP BY THE CONTRACTOR. THE CONTRACTOR WILL BE REPORSIBLE FOR ALL CLEANUP COSTS INCLUDING FINES AND PENALTES ASSESSED TO THE AIRPORT AS A RESULT OF THE RELEASE. CONTRACTOR WILL SUBMIT COPIES OF ALL MATERIAL SAFETY DATA SHEETS ASSOCIATED WITH THE WORK TO THE REIMESE. CONTRACTOR WILL SUBMIT COPIES OF ALL MATERIAL SAFETY DATA SHEETS ASSOCIATED WITH THE WORK TO THE BIGINEER PRIOR TO DELIVERY TO THE SITE.
- EQUIPMENT LOCATED WITHIN CONSTRUCTION AREAS WILL NOT EXCEED 35 FEET IN HEIGHT.
- 16. CONTRACTOR WILL COLLECT AND DISPOSE OF LUNCH WRAPPERS, FOOD AND OTHER WILDLIFE ATTRACTANTS. CONTRACTOR WILL ABIDE BY AIRPORT WILDLIFE MANAGEMENT PROCEDURES.
- 17. CONTRACTOR WILL IMMEDIATELY NOTIFY THE AIRPORT MANAGER OF ANY CONDITION THAT MAY, IN THE CONTRACTOR'S OPINION, ADVERSELY AFFECT OPERATIONAL SAFETY. THE AIRPORT MANAGER WILL ASSESS THE REPORT AND NOTIFY THE FAA AND OTHER IMPACTED PARTIES AS WARRANTED BY THE SITUATION.

- 18. THE CONTRACTOR WILL PROVIDE THE ENGINEER WITH A NAME AND TELEPHONE NUMBER OF TWO (2) INDIVIDUALS THAT WILL BE AVAILABLE 24 HOURS A DAY, SEVEN DAYS A WEEK, FOR USE IN EMERGENCIES. THIS CONTACT PERSON WILL HAVE THE AUTHORITY TO IMMEDIATELY CORRECT ANY SAFETY OR SEQURITY DEFICIENCY CAUSED BY THE CONTRACTOR OR CONSTRUCTION ACTIVITIES, AS IDENTIFIED BY THE OWNER.
- 19. IN CASE OF AN EMERGENCY, CONTACT GFIAA COMMUNICATIONS AT (616) 233-6055.
- 20. PAVEMENT INSPECTIONS WILL BE CONDUCTED BY AIRPORT PERSONNEL AND THE ENGINEER. AIRCRAFT PAVEMENTS WILL NOT BE REOPENED UNTIL THE SAFETY AREAS HAVE BEEN INSPECTED AND APPROVED BY THE AIRPORT.
- 21. ALL AREAS OUTSIDE OF WORK AREAS WILL REMAIN OPEN DURING THE PROJECT. CONTRACTOR WILL NOT GO ONTO THE OPEN APRON, OPEN TAXIWAYS, OR OPEN RUNWAYS WITHOUT PERMISSION RROM THE AIRPORT OR THE ENGINEER.
- 22. NO PROPOSED TEMPORARY OR PERMANENT ADJUSTMENTS TO RSA OR TSA DIMENSIONS ARE ASSOCIATED WITH THIS CONTRACT.
- 23. CONTRACTOR WILL NOT USE OPEN FLAME WELDERS OR TORCHES OUTSIDE OF THE STAGING AND STORAGE AREA WITHOUT APPROVAL BY THE AIRPORT. USE OF OPEN FLAME WELDERS OR TORCHES WITHIN THE STAGING AND STORAGE AREA WILL BE IN ACCORDANCE WITH THE CONTRACTOR'S CORPORATE POLICY AND PROJECT SAFETY PLAN. USE WILL BE LIMITED TO AREAS WITH FIRE PROTECTION, AND CONTRACTOR WILL PREVENT FIRES FROM STARTING AND LIMIT THE SPREAD IF ONE IS STARTED.
- 24. CONTRACTOR WILL NOT USE EXPLOSIVES.
- 25. CONTRACTOR'S EQUIPMENT WILL ENTER THE WORK AREA THROUGH THE ACCESS ROUTE SHOWN.
- 26. CONTRACTOR WILL PROVIDE, PLACE, AND MAINTAIN LOW PROFILE BARRICADES AT THE LOCATIONS SHOWN. BARRICADES WILL BE PLACED IMMEDIATELY UPON CLOSING OF THE RUNWAY OR TAXIWAY.
- 27. RUNWAY CLOSURE MARKERS WILL BE REQUIRED AS SHOWN WHENEVER A RUNWAY IS CLOSED. THE CONTRACTOR WILL OPERATE AND MAINTAIN LIGHTED RUNWAY CLOSURE MARKERS. MAINTENANCE WILL INCLUDE FUELING, OIL CHANGES (MIN. ONCE PER WERK). LIGHT BUIB REPLACEMENT, FLECTRICAL SYSTEM REPAIR AND ALL OTHER COMMON OR ROUTINE ACTIVITIES INCESSARY TO KEEP THE LIGHTED RUNWAY CLOSURE MARKERS IN A GOOD, OPERATING CONDITION AT ALL TIMES.
- 28. MAXIMUM EQUIPMENT HEIGHT IS 35 FEET FOR ALL PHASES.
- 29. THE MAXIMUM NUMBER OF LOW-PROFILE BARRICADES ANTICIPATED TO BE IN USE AT ANY ONE TIME IS THIRTY-TWO (32). BARRICADES WILL BE PLACED END TO END, CONTINUOUSLY ACROSS THE WIDTH OF THE TAXIWAY.
- 30. ALL COSTS FOR LIGHTED RUNWAY CLOSURE MARKERS, LOW-PROFILE BARRICADES AND ALL OTHER WORK DEPICTED ON THE CONSTRUCTION SAFETY PHASING PLANS (CSPP) AND NOT LISTED AS A SEPARATE PAY ITEM WILL BE INCLUDED INTO THE LUMP SUM PRICE FOR "SAFETY AND SECURITY"
- 31. SHOULD SUSPENSION OF CONSTRUCTION BECOME NECESSARY DUE TO LOW-VISIBILITY OPERATIONS, SNOW REMOVAL ARCRAFT IN DISTRESS, AIRCRAFT ACCIDENT, SECURITY BREACH, VEHICLE / PEDESTRIAN DEVIATION (VPD) OR OTHER CONDITIONS, THE AIRPORT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR AND ISSUE SPECIAL INSTRUCTIONS AS NECESSARY FOR THE SITUATION.

32. DEFINITIONS: AIRPORT - GERALD R. FORD INTERNATIONAL AIRPORT AC - ADVISORY CIRCULAR AOA - AIR OPERATIONS AREA A0A – AIR OPERATIONS AREA CR – CODE OF FEDERAL REGULATIONS FAA – FEDERAL AVIATION ADMINISTRATION FOD – FOREIGN OBJECT DEBRIS PAPI – PRECISION APPROACH PATH INDICATOR REIL – RUNWAY OBJECT FREE LIGHT ROFA – RUNWAY OBJECT FREE AREA ROFZ – RUNWAY OBJECT FREE AND ROFZ – RUNWAY OBJECT FREE ADDR RSA – RUNWAY SAFETY AREA SPONSCR (OWNER – CONTY OF ROSCOMMON SPONSOR/OWNER - COUNTY OF ROSCOMMON TOFA – TAXIWAY/TAXILANE OBJECT FREE AREA TSA – TAXIWAY SAFETY AREA NAVAID – NAVIGATIONAL AID NOTAMS – NOTICE TO AIRMEN

CONSTRUCTION NOTES: GENERAL

2. THE INFORMATION CONCERNING UNDERGROUND UTILITIES WAS COMPILED FROM INFORMATION AND SKETCHES FURNISHED BY OR OBTAINED FROM UTILITY COMPANIES AND THE AIRPORT. THE OWNER AND THE ENGINEER DO NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR IS ADVISED TO DETERMINE THE EXACT LOCATIONS FROM THE AVAILABLE SOURCES OF INFORMATION OR PROVIDE HIS OWN MEANS OF DETECTION. REFER TO THE GENERAL CONTRACT PROVISIONS SECTION 70-15 FOR THE CONTRACTOR'S

PROVISIONS, SECTION 70-15, FOR THE CONTRACTOR'S RESPONSIBILITIES FOR UTILITY SERVICE AND FACILITIES

OF OTHERS: 3. PRIOR TO OPENING AN EXCAVATION, EFFORT WILL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION: I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTENED, AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED, WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATIONS OF SUCH AN INSTALLATION, THE EXACT LOCATIONS WILL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING, AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION WILL BE PROVIDED FOR THE EXISTING INSTALLATION, ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED WILL BE ADVISED OF PROPOSED WORK AT LEAST 2 NORMAL BUSINESS DATS PRIOR TO HE START OF ACTUAL EXCAVATION. REFER TO SECTIONS 70-10, 70-11 AND 70-15 OF THE GENERAL CONTRACT PROVISIONS FOR A DESCHORTION OF THE CONTRACTOR'S ASSUMPTION OF RISK AND CONTRACTORY ASSUMPTION OF RISK AND CONTRACTOR'S ASSUMPTION OF R CONTRACTOR'S ASSUMPTION OF RISK AND RESPONSIBILITY TO PROTECT PROPERTY OF OTHERS DURING CONSTRUCTION.

CONSTRUCTION STAKING

4. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONSTRUCTION STAKING. A BENCHMARK AND A MINIMUM OF TWO (2) CONTROL POINTS WILL BE PROVIDED BY THE ENGINEER FOR CONTRACTOR'S USE.

5. A COPY OF THE DIGITAL TERRAIN MODEL AND OTHER ELECTRONIC DATA WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON EXECUTION OF A WAYER RELIEVING THE GERALD R. FORD INTERNATIONAL AIRPORT AUTHORITY AND PREIN&NEWHOF OF LIABILITY FOR THE INFORMATION.

EXCAVATION AND EMBANKMENT

- ALL EXCAVATION AND EMBANKMENT WILL BE IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS.
- 7. EMBANKMENTS UNDER THE ONE ON ONE INFLUENCE OF PAVEMENTS AND FOUNDATIONS WILL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATION P-152. SOIL WILL BE COMPACTED BASED ON AIRCRAFT WEIGHTING 30,000 LBS ON LESS EXCEPT UNDER THE FLOOR/FOUNDATIONS. BUILD BE COMPACTED THE FLOOR AND FOUNDATIONS BUIL BE COMPACTED TO A MINIMUM OF 100% OF THEORETICAL DENSITY.
- 8. EXCESS NON-ORGANIC SOIL, IF PRESENT, WILL BE DISPOSED ON AIRPORT PROPERTY. SOIL STOCKPILES WILL BE GRADED AS SHOWN ON THE DRAWINGS AND COMPACTED.
- EXCESS TOPSOIL MAY BE USED TO CONSTRUCT EMBANKMENTS OUTSIDE OF THE ONE ON ONE INFLUENCE UNDER PAVEMENTS AND FOUNDATIONS.
- BORROW EXCAVATION, IF NEEDED, WILL BE OBTAINED FROM AIRPORT PROPERTY AT LOCATIONS DESIGNATED ON THE PLANS.

AGGREGATE BASE MATERIAL

11. AGGREGATE BASE MATERIAL WILL BE CONSTRUCTED IN ACCORDANCE WITH MDDT 2020 STANDARD SPECIFICATIONS, SECTION 302 USING A 21AA AGGREGATE.

HOT MIX ASPHALT PAVEMENT

- 12. HOT MIX ASPHALT PAVEMENTS WILL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS, SECTION 501 AND THE MDOT SPECIAL PROVISIONS INCLUDED WITH THE CONTRACT
- 13. CONTRACTOR WILL PROVIDE A 4EML MIX USING PG 64-28 BINDER.

14. CONTRACTOR WILL PROVIDE A 5EML MIX USING PG 70-22 BINDER.

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BITUMINOUS TACK COAT

- IN CASE OF CONFLICT BETWEEN NOTES SHOWN ON THE DRAWINGS AND THE STANDARD SPECIFICATIONS, THE NOTES ON THE DRAWINGS WILL TAKE PRECEDENCE.

- 15. TACK COAT WILL BE APPLIED PRIOR TO PAVING IN ACCORDANCE WITH SPECIFICATION SECTION 501. TACK COAT SHALL BE CONSIDERED INCIDENTAL TO PAVEMENT CONSTRUCTION AND INCLUDED IN THE PER TON UNIT PRICES FOR "HMA, 4EML" AND "HMA, 5EML".
- CONCRETE FOR MISCELLANEOUS STRUCTURES
- 16. CONCRETE STRUCTURES, FLOORS AND FOUNDATIONS WILL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS USING GRADE 3500 CONCRETE.
- STORM SEWERS AND DRAINAGE STRUCTURES
- 17. STORM SEWER AND CULVERTS WILL BE CONSTRUCTED IN ACCORDANCE MDOT 2020 STANDARD SPECIFICATIONS, SECTIONS 401 AND 402 AND MDOT STANDARD DETAILS R-82-D, R-83-C & R-86-F.
- DRAINAGE STRUCTURES WILL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS, SECTION 403 MDOT STANDARD DETAILS R-1-G, R-10-D.
- UNDERDRAINS WILL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS, SECTION 404.
- PERMANENT TRAFFIC SIGNS AND SUPPORTS
- 20. UNLESS OTHERWISE NOTED, TRAFFIC SIGNS WILL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS, SECTIONS 810 AND 919.
- PERMANENT PAVEMENT MARKINGS
- 21. PAVEMENT MARKINGS WILL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2020 STANDARD SPECIFICATIONS, SECTIONS 811 AND 920.
- FENCING AND GATES
- 22. GATES WILL BE CONSTRUCTED IN ACCORDANCE WITH FAA SPECIFICATION F-162 AND THE DETAILS SHOWN IN THE SET OF DRAWINGS.

ELECTRICAL

POWER PEDESTALS, LOCKED ENCLOSURES, CABLING AND CONDUITS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.

RESTORATION

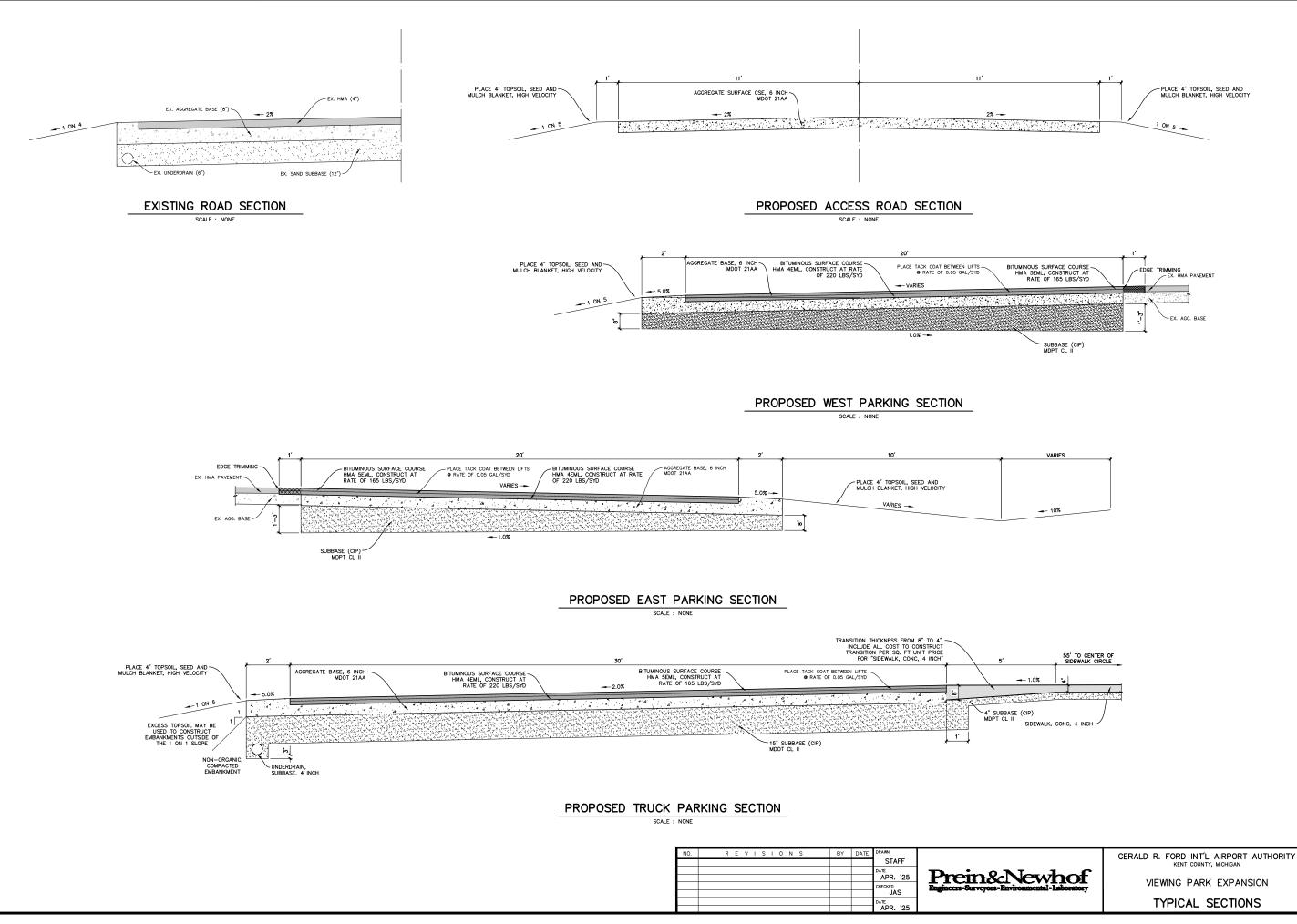
- 24. ALL DISTURBED AREAS WILL BE GRADED TO MATCH EXISTING DRAINAGE PATTERNS OR PROPOSED ELEVATIONS AS APPROPRIATE.
- ALL DISTURBED AREAS WILL BE SEEDED, AND MULCHED IN ACCORDANCE WITH THE MOOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTIONS 816 AND 917.
- SOIL EROSION AND SEDIMENTATION CONTROL
- 26. THE CONTRACTOR WILL FILE FOR THE SOIL EROSION COMTROL PERMIT WITH KENT COUNTY ROAD COMMISSION. THE OWNER WILL FURNISH A SIGNED PERMIT APPLICATION AND SOIL EROSION CONTROL PLANS TO THE CONTRACTOR WILL PAY ALL FEES AND BE LISTED AS THE AGENT FOR THE OWNER. THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A COPY OF THE APPROVED PERMIT.
- 27. COSTS FOR THE SESC PERMIT, INSPECTIONS AND THE "NOTICE OF COVERAGE" MUL BE INCLUDED IN THE PER DOLLAR ALLOWANCE FOR "PERMITS", PAYMENT WILL BE BASED ON COSTS INVOICED TO AND SUBMITTED BY THE CONTRACTOR WITHOUT MARK-UP OR OTHER ADJUSTMENT.
- 28. ANY FINES LEVIED AGAINST THE OWNER FOR THE CONTRACTOR'S FAILURE TO INSTALL, MAINTAIN OR SECURE SOIL EROSION CONTROLS AS DESCRIBED HEREIN AND ON THE PLANS WILL BE THE CONTRACTOR'S RESPONSIBILITY. THESE FINES WILL BE DEDUCTED FROM THE AMOUNT DUE TO THE CONTRACTOR.

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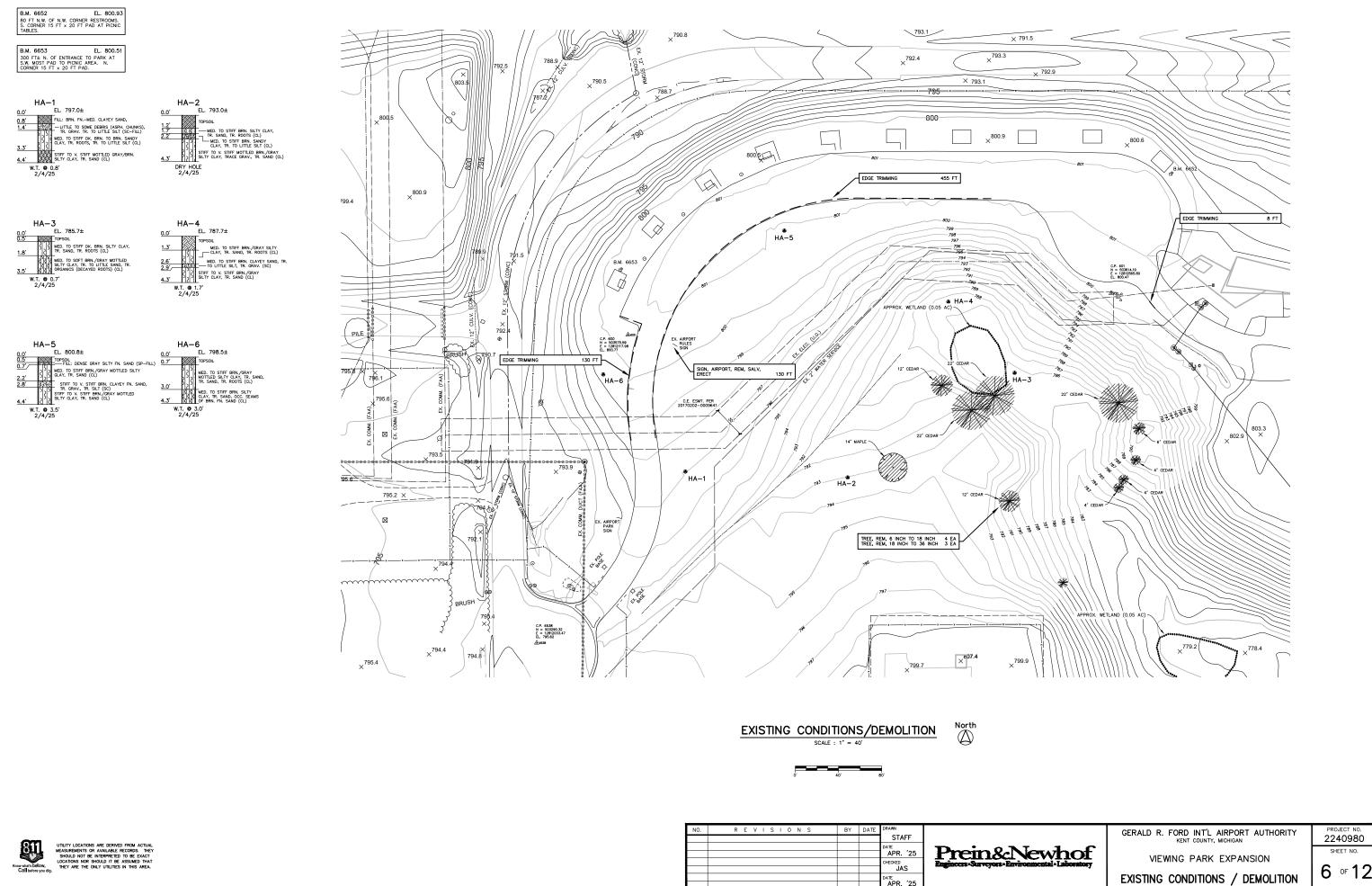
GERALD R. FORD INT'L AIRPORT AUTHORITY

2240980 SHEET NO. **4** of **12**

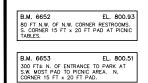
VIEWING PARK EXPANSION SAFETY AND OPERATIONS & CONSTRUCTION NOTES

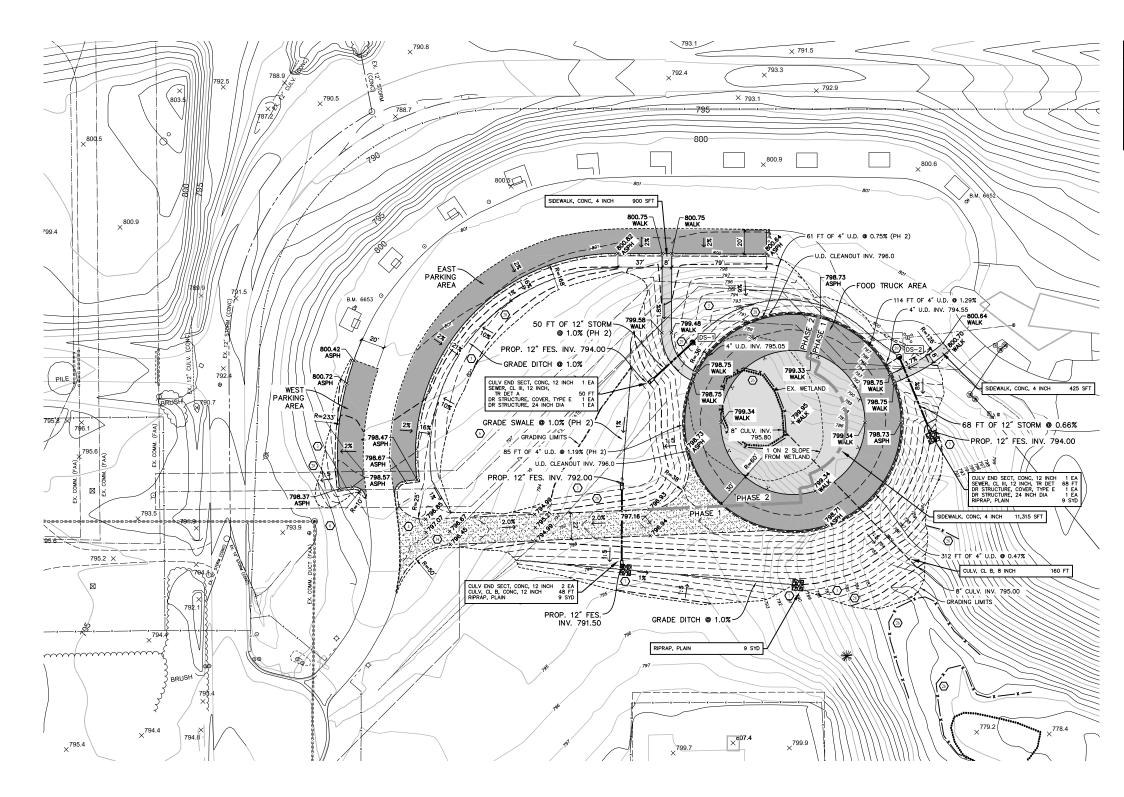


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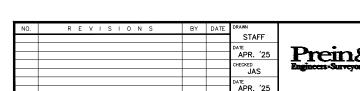


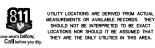
EXISTING CONDITIONS / DEMOLITION











STORM SEWER STRUCTURE DATA							
STRUCTURE NAME	STRUCTURE DETAILS	SOIL EROSION					
DS-1	2.0' DIA. 0.0' SUMP RIM EL. = 796.07 4" SE INV EL. 794.50 12" SW INV EL. 793.50	ADD INLET PROTECTION WHEN INSTALLED					
DS-2	2.0' DIA. 0.0' SUMP RIM EL. = 798.10 4" SW INV EL. 794.45 12" SE INV EL. 794.45	ADD INLET PROTECTION WHEN INSTALLED					

SESC KEY INDEX MDOT STD. DETAIL R-96-E

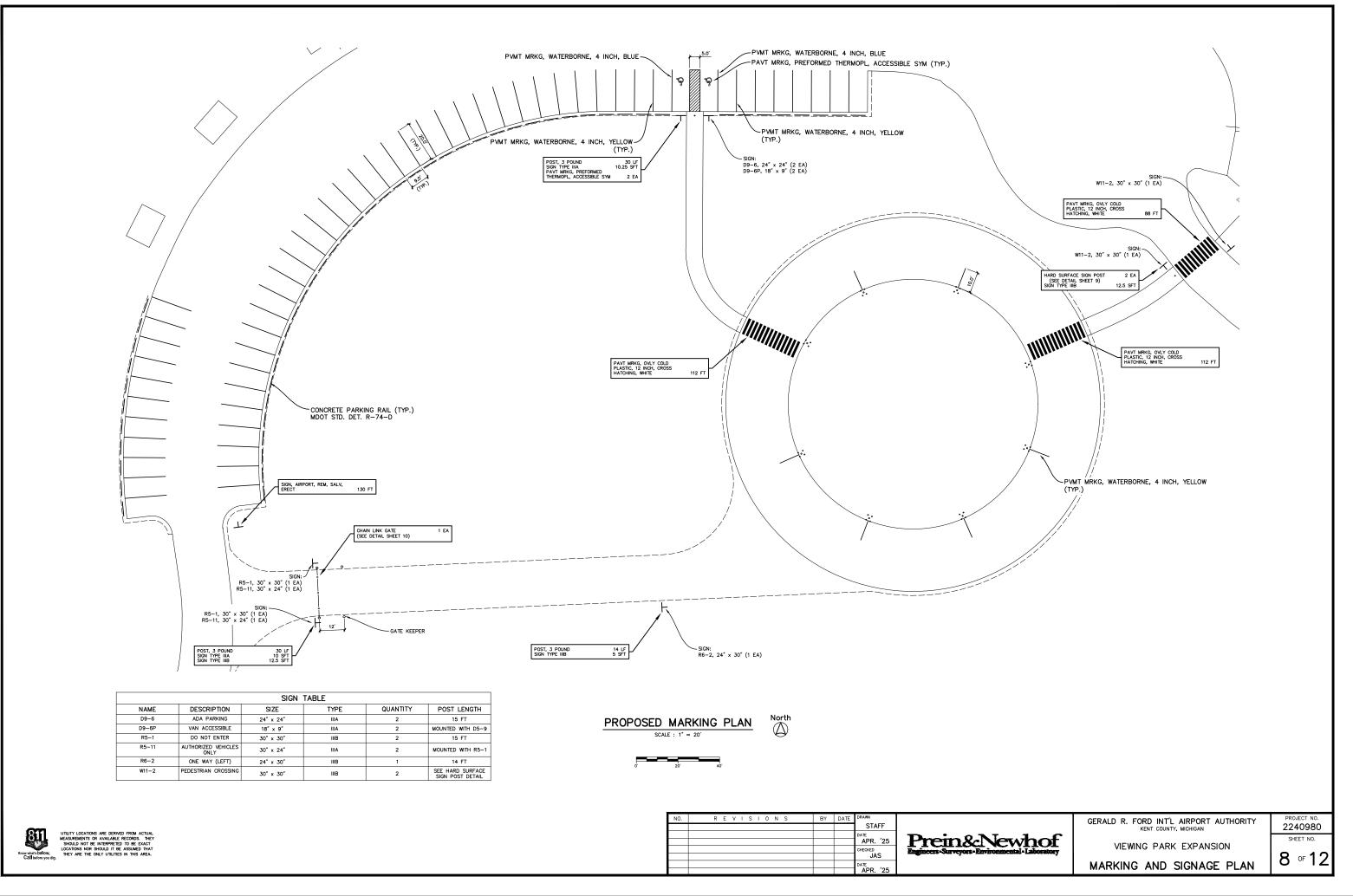
3	PERMANENT/TEMPORARY SEEDING
4	DUST CONTROL
6	VEGETATIVE BUFFER STRIPS
Ø	RIPRAP
(14)	GRAVEL ACCESS APPROACH
(26)	SILT FENCE
(28)	MULCH AND MULCH ANCHORING
(29)	INLET PROTECTION FABRIC DROP

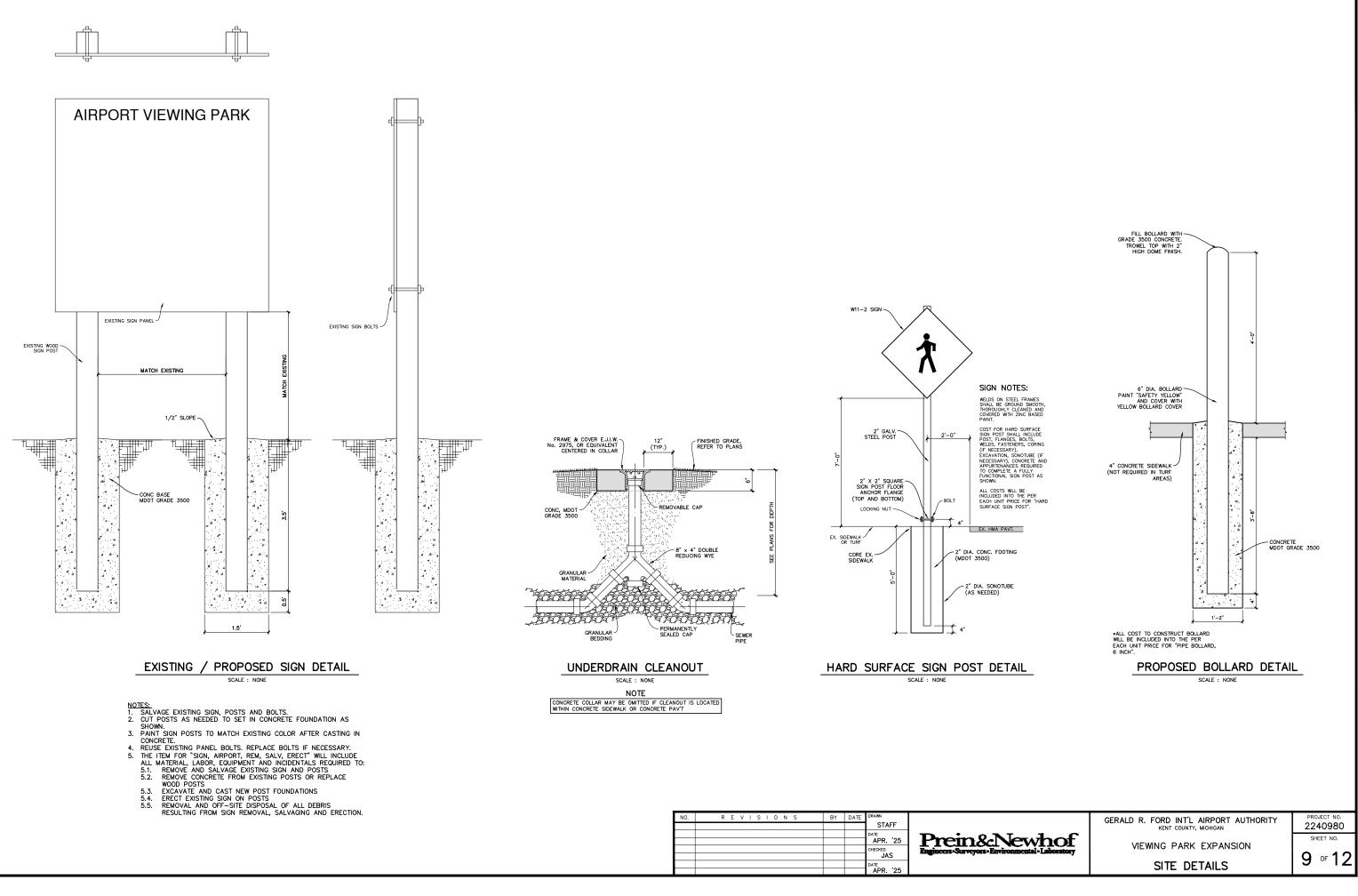


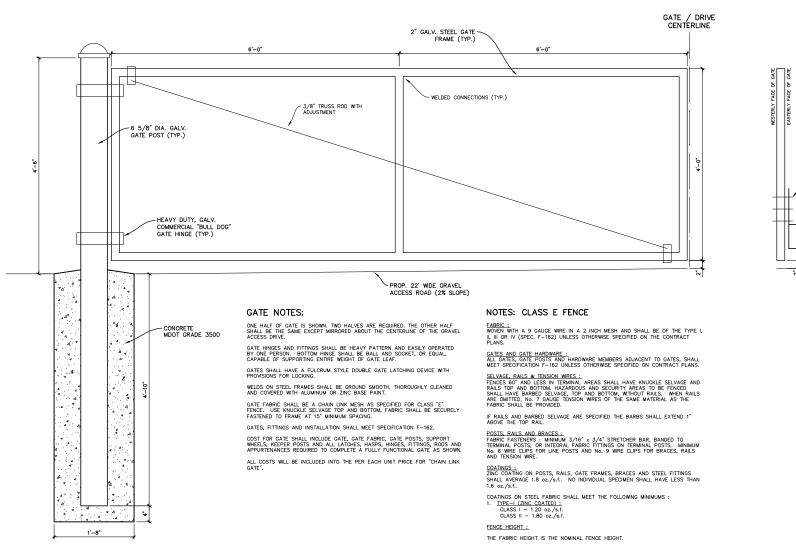
GERALD R. FORD INT'L AIRPORT AUTHORITY KENT COUNTY, MICHIGAN 2240980 SHEET NO. 7 OF 12

VIEWING PARK EXPANSION

SITE PLAN







-GALV. U-BOLT AND NUTS. DIA. TO MATCH WHEEL SUPPORT PLATE (TYP.) ✓ 16[°] DIA. FLAT FREE, FRONT MOUNT GATE SUPPORT WHEEL WITH GALV. FRAME 0

PROP. CENTERLINE 22' WDE GRAVEL ACCESS ROAD

4″ DIA. GALV. KEEPER-POST (TYP.)

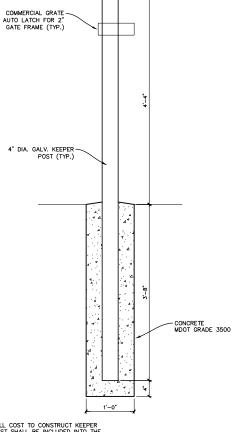
*ALL COST TO CONSTRUCT KEEPER POST SHALL BE INCLUDED INTO THE PER EACH ITEM FOR CHAIN LINK GATE

PROPOSED CHAIN LINK GATE DETAIL

SCALE : NONE

REVISIONS BY DATE STAFF APR. 25 IECKED APR. '25







PROPOSED KEEPER POST DETAIL

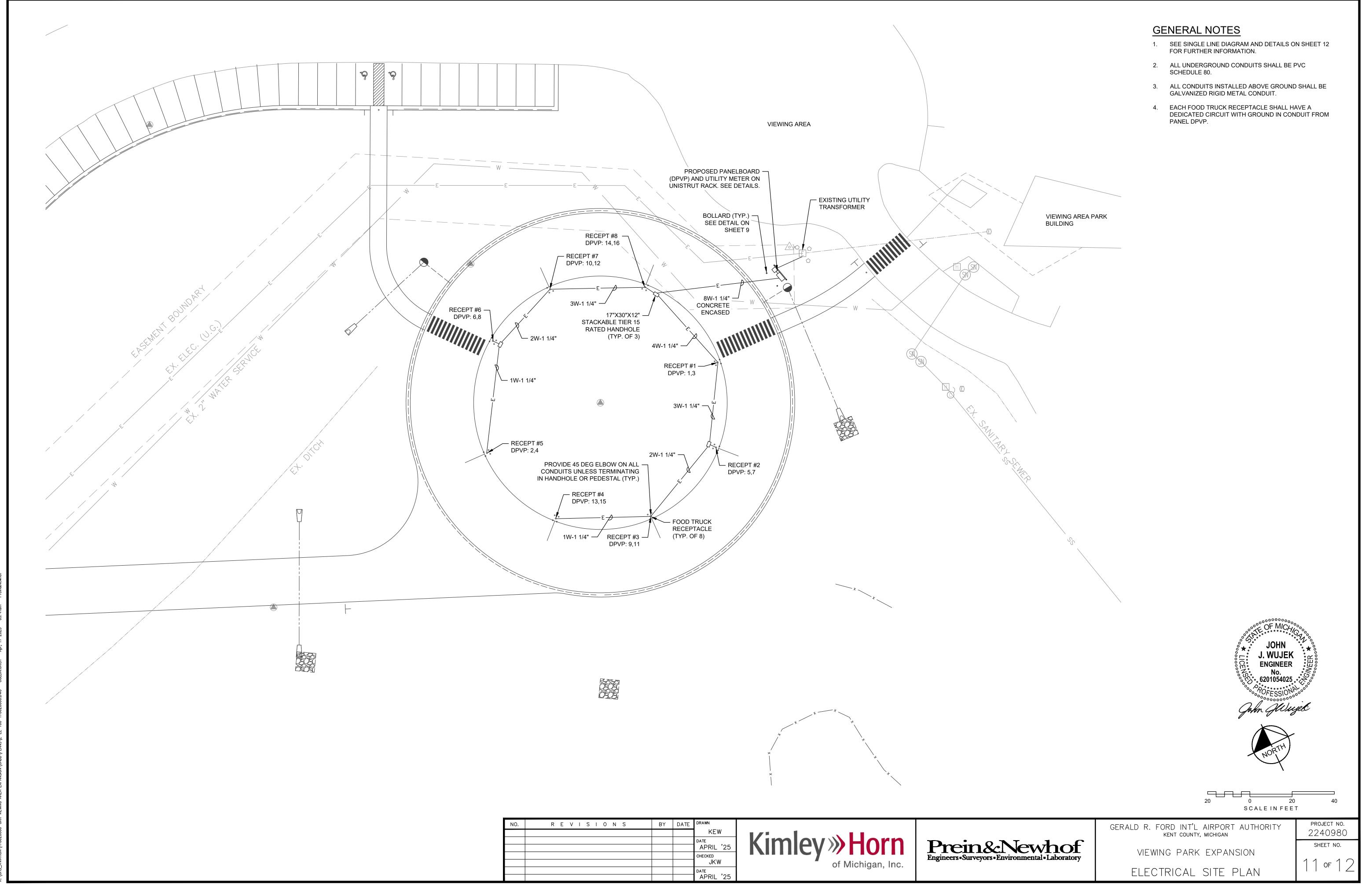
SCALE : NONE

GERALD R. FORD INT'L AIRPORT AUTHORITY

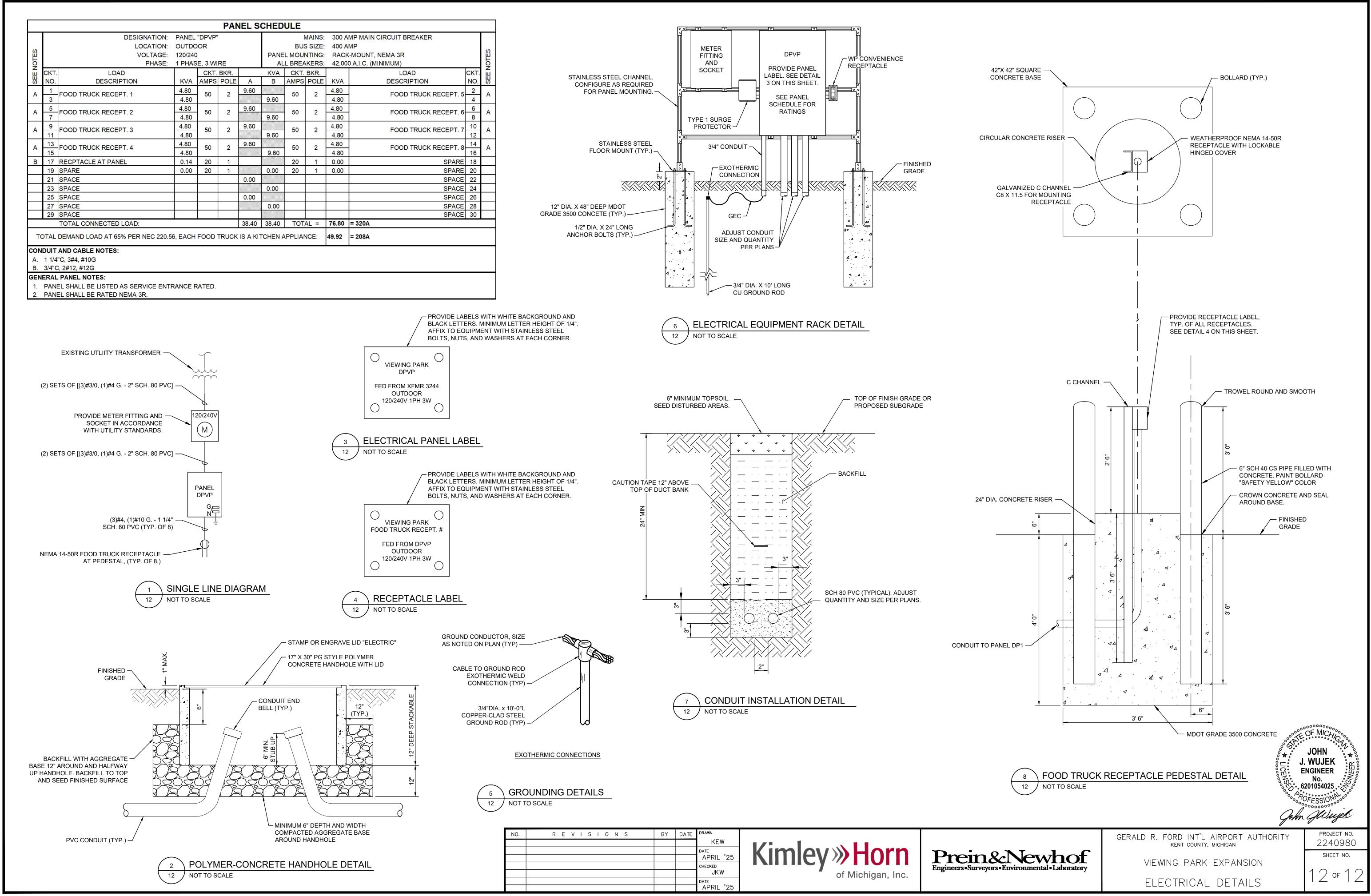
PROJECT NO. 2240980					
SHEET NO.					
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VIEWING PARK EXPANSION

GATE DETAILS



NO.	REVISIONS	ΒY	DATE	DRAWN
				KEW
				DATE
				APRIL '25
				CHECKED
				JKW
				DATE
				APRIL '25



AVIATION\170620000-GRR VIEWING AREA EXPANSION\CADD\PLANS\E-EL-500-170620000.DWG - COLLIN.CRIST - Apr, 17 2025 - 09:41am - Prein&Newh