LETTING ITEM NO. 04A
IDOT LETTING: APRIL 28, 2023

TF8
TOTAL SHEETS = 30

CONSTRUCTION PLANS

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

TINLEY PARK HELISTOP (TF8)
TINLEY PARK, COOK COUNTY, ILLINOIS

CONTRACT NO. TI001
IDA PROJECT NO. TF8-5050

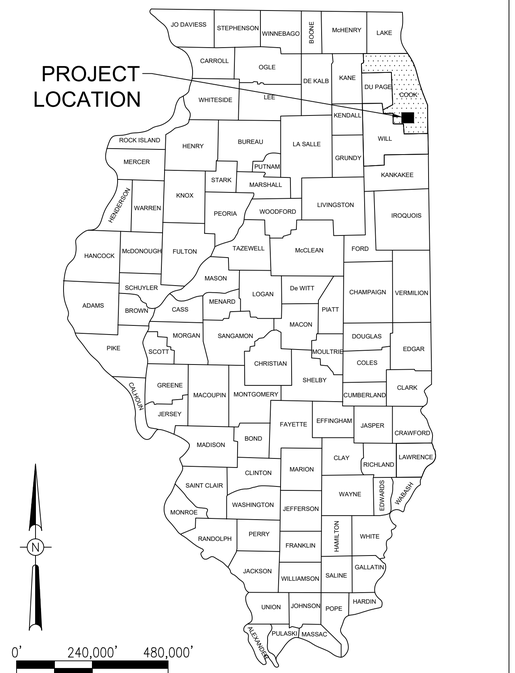
100% SUBMITTAL
MARCH 29, 2023

NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

VICINITY MAP

LOCATION MAP



No.	Issue/Description	Sheets Changed	Date	By

Seal

KRISTOFFER W. SALVATERA
062.069052
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
Date: 3/27/23
Exp: 11/30/23

Kris Salvatera, P.E.
Project Engineer

March 29, 2023
Date of Plans / Date

Primera
650 WARRENVILLE ROAD SUITE 200 . LISLE IL 60532
P:630-324-5100 F:630-241-3516

Stephen Moulton
Project Manager

March 29, 2023
Date

VILLAGE OF TINLEY PARK, ILLINOIS
16250 S. OAK PARK AVENUE
TINLEY PARK, ILLINOIS 60477

Arlan Schattke, P.E.
Village Engineer

March 13, 2023
Date

INDEX OF SHEETS

811 Know what's **below.** **Call** before you dig.

J.U.L.I.E.
JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS
www.illinois1call.com

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 811.

IDOT STANDARD DRAWINGS

701901-07 TRAFFIC CONTROL DEVICES

IDOT D1 STANDARD DRAWINGS

TC10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SUMMARY OF QUANTITIES

BASE BID - HELISTOP DESIGN

ITEM NO.	DESCRIPTION	UNITS	PLAN QUANTITY	RECORD QUANTITY
AR107508	L-806 W C 8' INTERNALLY LIT	EACH	1	
AR107900	REMOVE WIND CONE	EACH	1	
AR108082	1/C #2 XLP--USE	FOOT	680	
AR108406	1/C #6 600 V UG CABLE	FOOT	1100	
AR108410	1/C #10 600 V UG CABLE	FOOT	600	
AR108758	1/C #8 GROUND	FOOT	550	
AR108762	1/C #12 GROUND	FOOT	300	
AR110202	2" PVC DUCT, DIRECT BURY	FOOT	470	
AR110204	4" PVC DUCT, DIRECT BURY	FOOT	220	
AR110504	4-WAY CONCRETE ENCASED DUCT	FOOT	80	
AR110610	ELECTRICAL HANDHOLE	EACH	5	
AR119510	AIRPORT OBSTRUCTION LIGHT	EACH	3	
AR150510	ENGINEER'S FIELD OFFICE	L SUM	1	
AR150520	MOBILIZATION	L SUM	1	
AR150530	TRAFFIC MAINTENANCE	L SUM	1	
AR152410	UNCLASSIFIED EXCAVATION	CU YD	1276	
AR152540	SOIL STABILIZATION FABRIC	SQ YD	1709	
AR154606	GRANULAR DRAINAGE SUBBASE - 6"	SY	2300	
AR156510	SILT FENCE	FOOT	1154	
AR156520	INLET PROTECTION	EACH	3	
AR156531	EROSION CONTROL BLANKET	SQ YD	2508	
AR208515	POROUS GRANULAR EMBANKMENT	CU YD	570	
AR209606	CRUSHED AGG. BASE COURSE - 6"	SQ YD	1710	
AR401613	BIT. SURF. CSE.-METHOD I, SUPERPAVE	TON	800	
AR401650	BITUMINOUS PAVEMENT MILLING	SY YD	2700	
AR401665	BITUMINOUS PAVEMENT SAWING	FOOT	1650	
AR401900	REMOVE BITUMINOUS PAVEMENT	SQ YD	2330	
AR403613	BIT. BASE CSE.-METHOD I, SUPERPAVE	TON	215	
AR501508	8" PCC PAVEMENT	SQ YD	1640	
AR501530	PCC TEST BATCH	EACH	1	
AR501604	4" PCC SIDEWALK	SQ FT	25	
AR510510	TIE DOWN	EACH	2	
AR602510	BITUMINOUS PRIME COAT	GAL	190	
AR603510	BITUMINOUS TACK COAT	GAL	780	
AR620520	PAVEMENT MARKING-WATERBORNE	SQ FT	4450	
AR620525	PAVEMENT MARKING-BLACK BORDER	SQ FT	1320	
AR620900	PAVEMENT MARKING REMOVAL	SQ FT	1110	
AR705506	6" PERFORATED UNDERDRAIN	FOOT	910	
AR751803	UNDERDRAIN CLEANOUT	EACH	7	
AR751986	RECONSTRUCT CATCH BASIN	EACH	2	
AR801014	IN-PAVEMENT LIGHT BASE (EMPTY)	EACH	2	
AR801020	3/4" GRSC DUCT	FOOT	210	
AR801021	1" GRSC DUCT	FOOT	105	
AR801022	2" PVC DUCT, DIRECT BURY - SCHED 80	FOOT	357	
AR801023	4-WAY, 2" PVC DUCT, DIRECT BURY - SCHED 40	FOOT	495	
AR801024	L-852H IN-PAVEMENT MEDIUM INTENSITY LIGHT	EACH	22	
AR801025	RADIO CONTROL (LIGHTING)	L SUM	1	
AR801026	POWER DISTRIBUTION PANEL AND CONTROL EQUIPMENT WITH RAC	L SUM	1	
AR801027	HELIPORT BEACON	EACH	1	
AR801035	CONCRETE WASHOUT	L SUM	1	
AR901510	SEEDING	ACRE	0.52	

ADDITIVE ALTERNATE 1 - FUEL

ITEM NO.	DESCRIPTION	UNITS	PLAN QUANTITY	RECORD QUANTITY
AS152410	UNCLASSIFIED EXCAVATION	CU YD	64	
AS156531	EROSION CONTROL BLANKET	SQ YD	35	
AS209612	CRUSHED AGG. BASE COURSE - 12"	SQ YD	39	
AS705506	6" PERFORATED UNDERDRAIN	FOOT	64	
AS751803	UNDERDRAIN CLEANOUT	EACH	2	
AS801013	PROTECTION BOLLARD	EACH	9	
AS801033	SELF-SERVICE FUELING SYSTEM CONCRETE PAD (REINFORCED)	SQ YD	39	
AS801034	INTERLOCKING CONCRETE BLOCK RETAINING WALL	FOOT	56	
AS901510	SEEDING	ACRE	0.01	

ADDITIVE ALTERNATE 2 - LIGHTING AND CAMERA SECURITY

ITEM NO.	DESCRIPTION	UNITS	PLAN QUANTITY	RECORD QUANTITY
AT108410	1/C #10 600 V UG CABLE	FOOT	600	
AT108762	1/C #12 GROUND	FOOT	300	
AT801015	REPLACE WALL MOUNTED LIGHT FIXTURE	EACH	8	
AT801028	FIXED SECURITY CAMERA SYSTEM ON EXISTING POLE	EACH	3	
AT801029	REPLACE AREA LIGHTING (COBRA HEAD) LIGHT FIXTURES	EACH	8	
AT801030	LOWER EXISTING POLE AND EXISTING SECURITY CAMERA	EACH	1	

ADDITIVE ALTERNATE 3 - FENCING

ITEM NO.	DESCRIPTION	UNITS	PLAN QUANTITY	RECORD QUANTITY
AU162905	REMOVE GATE	EACH	2	
AU801031	ORNAMENTAL 6' TALL BLACK METAL FENCE	FOOT	160	
AU801032	ORNAMENTAL 6' TALL BLACK METAL MANUAL SLIDING GATE - 30'	EACH	2	

Primera
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Village of Tinley Park ILLINOIS

No. Description By Chk. App. Date

Issues

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

INDEX OF SHEETS, SUMMARY OF QUANTITIES, AND GENERAL NOTES

SHEET NO.
SHEET 2 OF 30

APPROVED
SM

CHECKED
SM

DRAWN BY
KWS

DRAWING NO.
C1.0

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PLOT STYLE TABLE CTB

LEGEND

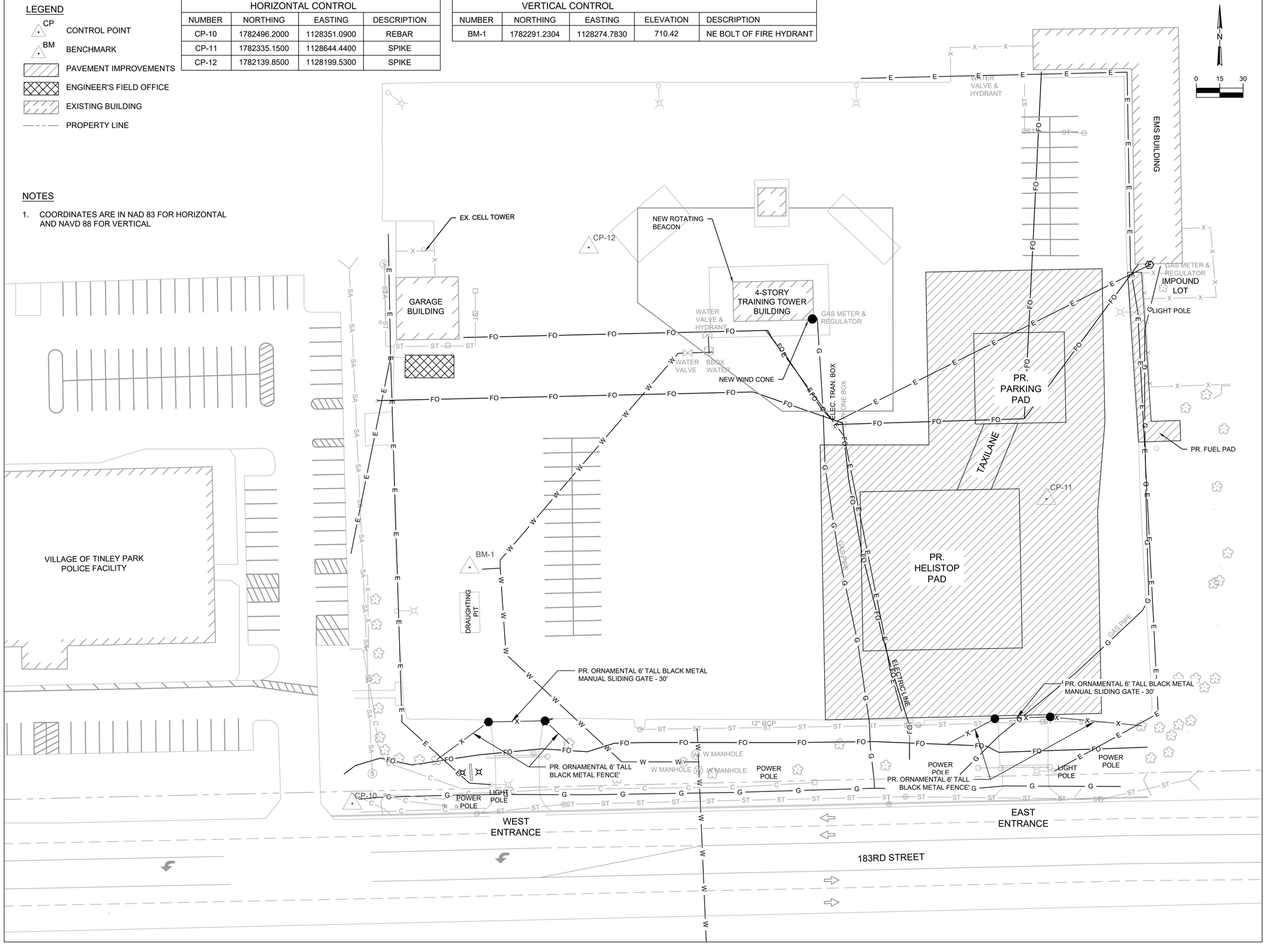
- CP — CONTROL POINT
- BM — BENCHMARK
- PAVEMENT IMPROVEMENTS
- ENGINEER'S FIELD OFFICE
- EXISTING BUILDING
- PROPERTY LINE

HORIZONTAL CONTROL			
NUMBER	NORTHING	EASTING	DESCRIPTION
CP-10	1782496.2000	1128351.0900	REBAR
CP-11	1782335.1500	1128644.4400	SPIKE
CP-12	1782139.8500	1128199.5300	SPIKE

VERTICAL CONTROL				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-1	1782291.2304	1128274.7830	710.42	NE BOLT OF FIRE HYDRANT

NOTES

1. COORDINATES ARE IN NAD 83 FOR HORIZONTAL AND NAVD 88 FOR VERTICAL



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100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-496-0900 F:312-496-0495

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

SITE PLAN AND PROJECT CONTROL

SHEET NO.
SHEET 3 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO.
C2.0

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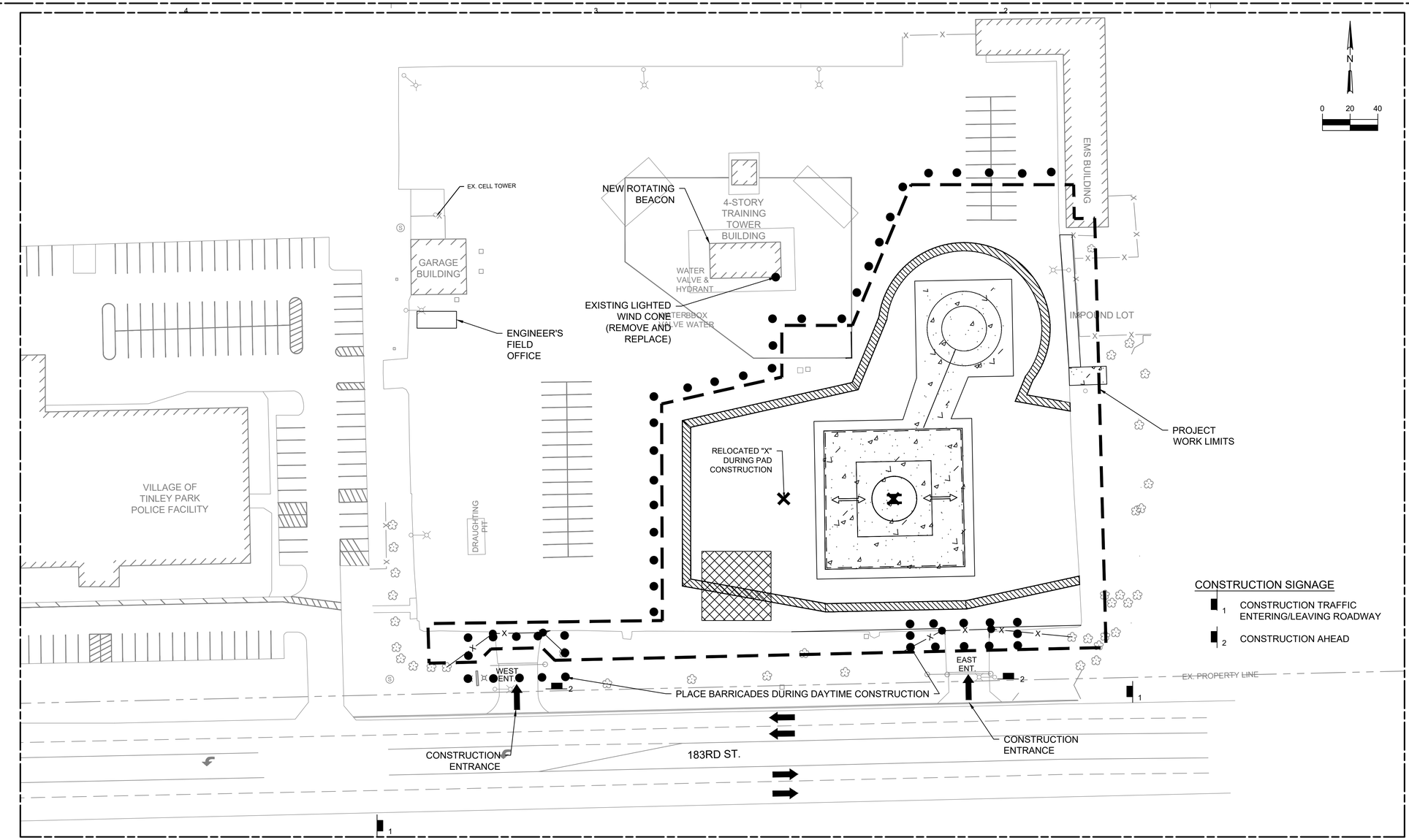

LEGEND

- WORK AREA
- CONTRACTOR'S STAGING AREAS AND EMPLOYEE PARKING
- CONTRACTOR'S ACCESS ROUTE
- TEMPORARY TYPE II BARRICADE WITH FLASHING LIGHT OR REFLECTORIZED CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- EXISTING BUILDING
- PROPERTY LINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING AREA LIGHT

SUGGESTED SEQUENCE OF CONSTRUCTION

1. NOTIFY THE RESIDENT ENGINEER AND THE VILLAGE OF TINLEY PARK 14 DAYS PRIOR TO START OF CONSTRUCTION.
2. COORDINATE HELISTOP CLOSURE AND CONSTRUCTION BARRICADES, SIGNS, AND CLOSED "X" MARKER. REMOVE LIGHTED WIND CONE.
3. PERFORM PAVEMENT AND EARTHWORK REMOVALS.
4. CONSTRUCT ALL PROPOSED UNDERGROUND UTILITY DUCTS.
5. CONSTRUCT NEW UTILITIES.
6. CONSTRUCT NEW PAVEMENT AND PAVEMENT MARKINGS.
7. CONSTRUCT NEW FENCE, GATE, AND LANDSCAPING.
8. INSTALL NEW ROTATING BEACON AND LIGHTED WIND CONE.
9. NOTIFY UTILITY PARTIES OF COMPLETION AND SCHEDULE ANY UTILITY TESTING REQUIRED.
10. REMOVE ALL FOREIGN OBJECT DEBRIS (FOD), REMOVE BARRICADES, AND RE-OPEN HELISTOP PAVEMENTS.

STAGING NOTES

1. CONTRACTOR SHALL COORDINATE THE HELISTOP AND PAVEMENT CLOSURES AT LEAST 14 DAYS IN ADVANCE WITH THE VILLAGE OF TINLEY PARK.
2. EXISTING HELISTOP TO BE CLOSED FOR DURATION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL (BARRICADES, CONES, SIGNAGE, ETC.) AND PERSONNEL TO SAFELY DIRECT TRAFFIC FOR THE DURATION OF THIS WORK. COST OF PROVIDING TRAFFIC CONTROL SHALL BE INCLUDED IN THE COST OF ITEM AR201150 - TRAFFIC MAINTENANCE.
4. CONTRACTOR SHALL PROVIDE ACCESS TO EXISTING VEHICLE PARKING LOTS AND BUILDING ADJACENT TO THE PROJECT LIMITS AT ALL TIMES DURING CONSTRUCTION.
5. TEMPORARY TRAFFIC CONTROL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND APPLICABLE IDOT STANDARD DETAILS FOR TEMPORARY TRAFFIC CONTROL.
6. THE CONTRACTOR SHALL REMOVE ALL DEMOLITION DEBRIS, WASTE, AND LOOSE MATERIAL, ALSO KNOWN AS FOREIGN OBJECT DEBRIS (FOD). FOD CAN DAMAGE CAN DAMAGE AIRCRAFT. THE PROJECT SITE SHALL REMAIN CLEAN AND REMOVE ALL FOD DEBRIS UNTIL THE FINAL COMPLETION OF THE PROJECT.
7. COORDINATE BARRICADE PLACEMENT WITH FIRE DEPARTMENT DURING TRAINING TOWER OPERATIONS.
8. THE CLOSED "X" HELISTOP MARKER SHALL BE PLACED IN THE CENTER OF EXISTING PAD AT ALL TIMES. WHEN HELISTOP PAD IS UNDER CONSTRUCTION, THE CLOSED MARKER MAY BE MOVED WEST OF THE PAD AS SHOWN IN THE PLANS, BUT SHALL BE RELOCATED TO THE CENTER OF THE PAD AT THE END OF THE WORK DAY.

PLOT STYLE TABLE: ctb
PLOTTED BY: Kristopher Salvatera
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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

SITE SAFETY AND SEQUENCE OF CONSTRUCTION PLAN

SHEET NO.
SHEET 4 OF 30

APPROVED **SM**
CHECKED **SM**
DRAWN BY **KWS**

DRAWING NO.
C3.0

SAFETY IS REQUIRED

CONSTRUCTION OF THE PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SPECIFIED IN FAA ADVISORY CIRCULAR 150/5370-2 (CURRENT ISSUE) AND AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. ANY ACTIVITIES REQUIRED FOR PROJECT SAFETY SHALL BE INCIDENTAL TO THE CONTRACT.

SEQUENCE OF CONSTRUCTION

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION, AND WORK MUST BE COMPLETED EXPEDITIOUSLY. A CONSTRUCTION SAFETY AND PLAN DETAILING THE SEQUENCING OF THE CONTRACTOR'S WORK THROUGHOUT THE PROJECT IS INCLUDED IN THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL PROVIDE HIS WRITTEN ACCEPTANCE OF THE PROJECT CONSTRUCTION SAFETY AND PLAN AT THE PRE-CONSTRUCTION CONFERENCE. ANY AND ALL CHANGES TO THE CONSTRUCTION SAFETY AND PHASING PLAN THAT MAY BE REQUESTED BY THE CONTRACTOR MUST BE APPROVED BY THE PROJECT ENGINEER AND THE VILLAGE OF TINLEY PARK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT ADVANCE NOTICE OF ANY PROPOSED PHASING CHANGE TO PERMIT CONSIDERATION AND APPROVAL BY THE PROJECT ENGINEER AND THE VILLAGE. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY EXTRA COMPENSATION NOR EXTENSION TO THE CONTRACT TIME BECAUSE OF A PHASING CHANGE REQUEST NOR FOR ANY TIME NECESSARY IN RECEIVING THE REQUIRED APPROVALS.

AT THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL PROVIDE A CONTRACTOR COORDINATION PLAN THAT COORDINATES HIS WORK WITH THE WORK OF HIS SUBCONTRACTORS AND THE WORK OF OTHER CONTRACTORS OF OTHER ON-GOING AIRPORT PROJECTS.

CONSTRUCTION LIMITS

THE CONTRACTOR SHALL REMAIN WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL FURNISH MEASURES TO PREVENT EQUIPMENT AND PERSONNEL FROM OPERATING OUTSIDE THESE LIMITS.

VEHICULAR TRAFFIC CONTROL

THE CONTRACTOR SHALL ERECT AND MAINTAIN, AT NO COST TO THE CONTRACT, DIRECTIONAL AND INFORMATIONAL SIGNS FOR THE CONTRACTOR'S ACCESS ROUTES AT THE EXISTING CONSTRUCTION ENTRANCES AND FOR THE CONTRACTOR'S ROUTE WITHIN THE AIRPORT OPERATIONS AREA, AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. WHERE CONTRACTOR EQUIPMENT IS OPERATING WITHIN ACTIVE ROADWAYS, FLAGGERS SHALL BE FURNISHED BY THE CONTRACTOR. CONTINUOUS PAVEMENT SWEEPING SHALL BE FURNISHED TO REMOVE DEBRIS FROM ACTIVE VEHICLE MOVEMENT AREAS. THE COST OF TRAFFIC CONTROL/FLAGGERS AND PAVEMENT SWEEPING SHALL BE INCIDENTAL TO THE CONTRACT.

THE FOLLOWING REQUIREMENTS MUST BE ADHERED TO:

- ALL EMPLOYEES OF THE CONTRACTOR SHALL PARK THEIR PERSONAL VEHICLES IN THE DESIGNATED EQUIPMENT PARKING AND STORAGE AREA. EACH PERSON OR VEHICLE ENTERING THE CONTRACTOR AREA SHALL DO SO IN ACCORDANCE WITH THE POLICIES AND PROCEDURES OF THE AIRPORT OWNER. THE CONTRACTOR WILL TRANSPORT THE WORKERS FROM THE PARKING AREAS TO THE WORK AREA. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE OF THE PROPOSED EQUIPMENT STORAGE AND PARKING AREAS.

- THE CONTRACTOR WILL BE REQUIRED TO BE IN CONTACT WITH THE VILLAGE OF TINLEY PARK. THIS WILL KEEP THE CONTRACTOR IN CONTACT WITH PERSONNEL AND ENABLE PERSONNEL TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

CONTRACTOR USE OF SITE

THE CONTRACTOR SHALL FURNISH, PLACE, MAINTAIN, RELOCATE, AND REMOVE TRAFFIC SAFETY DEVICES ON ACTIVE PAVEMENTS AS SPECIFIED IN IDOT TRAFFIC STANDARDS SHOWN AND DETAILED IN THE CONSTRUCTION PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM AR150530, TRAFFIC MAINTENANCE.

THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCROACH UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE HELIPORT APRON SAFETY AREAS AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AVIATION REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE".

WHEN NOT IN USE AND DURING NON-WORKING HOURS, CONTRACTORS EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS. THE EQUIPMENT STORAGE AND PARKING AREAS ARE TO BE LOCATED AS SHOWN ON THE CONSTRUCTION SAFETY AND PHASING PLAN. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION ENTRANCES AND CONTRACTOR AREAS IN GOOD CONDITION. THE COST OF MAINTAINING THE CONSTRUCTION ENTRANCE AND CONTRACTOR AREAS IS TO BE INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENT EDGES FROM DAMAGE FROM CONSTRUCTION EQUIPMENT AND HAUL VEHICLES.

AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE PART 77 AIRPORT IMAGINARY SURFACES. CONTRACTOR'S EQUIPMENT SHALL EXTEND NO HIGHER THAN 25 FEET. CRANES SHALL NOT BE USED DURING INSTRUMENT WEATHER CONDITIONS OR AT NIGHT. CRANES SHALL BE LOWERED WHEN NOT IN USE.

BEFORE REOPENING TEMPORARILY CLOSED PAVEMENTS, THE CONTRACTOR SHALL INSPECT AND CLEAN, AS NECESSARY, THE PAVEMENT TO ASSURE THAT NO MATERIALS OR OBJECTS THAT MAY DAMAGE AIRCRAFT OR VEHICLES REMAIN. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT OWNER AND IS INCIDENTAL TO THE CONTRACT.

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED PROJECT SAFETY PLAN, ISSUED BY THE ILLINOIS DIVISION OF AERONAUTICS. FAILURE TO USE THESE PRESCRIBED PROCEDURES OR ADHERE TO THE SAFETY REQUIREMENTS WILL RESULT IN THE SUSPENSION OF WORK.

UTILITY OUTAGES AND SHUTDOWNS

THE CONTRACTOR SHALL PROVIDE THREE (3) DAYS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.

PROTECTION OF EXISTING UTILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT; DRIVEWAY AND ROAD PAVEMENT AND SHOULDERS; APRON PAVEMENTS AND SHOULDERS; RUNWAY, SITE LIGHTING EQUIPMENT; AND SEEDED AND TURFED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF AIRPORT OWNER AND THE RESIDENT ENGINEER.

IN ADDITION, WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE OWNER AND THE RESIDENT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TYPE SWEEPER IN ALL ACTIVE CONSTRUCTION PAVEMENT AREAS. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SWEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON VILLAGE PROPERTY IS SHOWN ON SHEET C2.0. CONTRACTOR'S ACCESS TO THE FACILITY ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION ROADS WITHIN THE CONSTRUCTION LIMIT LINES AS MAY BE REQUIRED BY HIS ACTIVITIES. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT OWNER AND THE RESIDENT ENGINEER. FOR HAUL ROUTES MADE BY CONTRACTOR THROUGH GRASSED AREAS, CONTRACTOR SHALL GRADE, LEVEL, TOPSOIL, SEED AND MULCH AT THE END OF THE PROJECT, COST INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT STORAGE AND PARKING AREA AT THE LOCATIONS SHOWN ON DRAWING C2.0. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT OWNER AND THE RESIDENT ENGINEER. AT THE AIRPORT OWNER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT OWNER. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND NEITHER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE OF ANY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (PHONE 800-892-0123) TO ASSIST IN THE ABOVE.

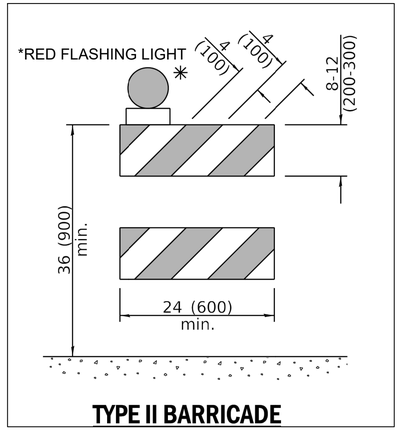
THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING-AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESIDENT ENGINEER AND THE UTILITY COMPANY OR AGENCY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE AT ONCE.

CLOSED MARKER NOTES

CLOSED MARKERS SHALL BE YELLOW AND APPROVED BY THE RESIDENT ENGINEER.

CLOSED MARKERS SHALL BE LOCATED AT THE CENTER OF THE EXISTING HELIPAD AT ALL TIMES. DURING PAVEMENT CONSTRUCTION, THE CLOSED MARKER MAY BE RELOCATED ADJACENT TO THE HELIPAD BUT SHALL BE MOVED BACK TO THE CENTER OF THE PAD (OR AS DIRECTED BY THE RESIDENT ENGINEER) AT THE END OF THE CONSTRUCTION WORK DAY. CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION.

COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING MARKERS SHALL BE INCIDENTAL TO THE CONTRACT.



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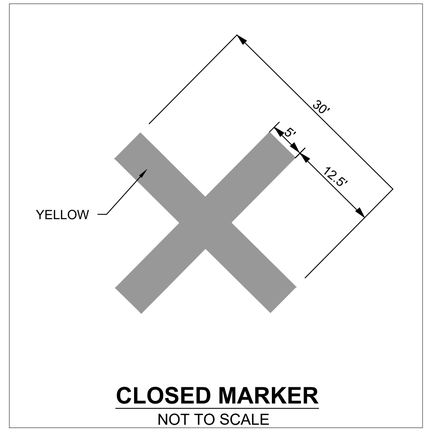

CLOSED MARKER
NOT TO SCALE

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Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P.312-466-2900 F.312-466-9405

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
CONSTRUCTION SAFETY NOTES AND DETAILS

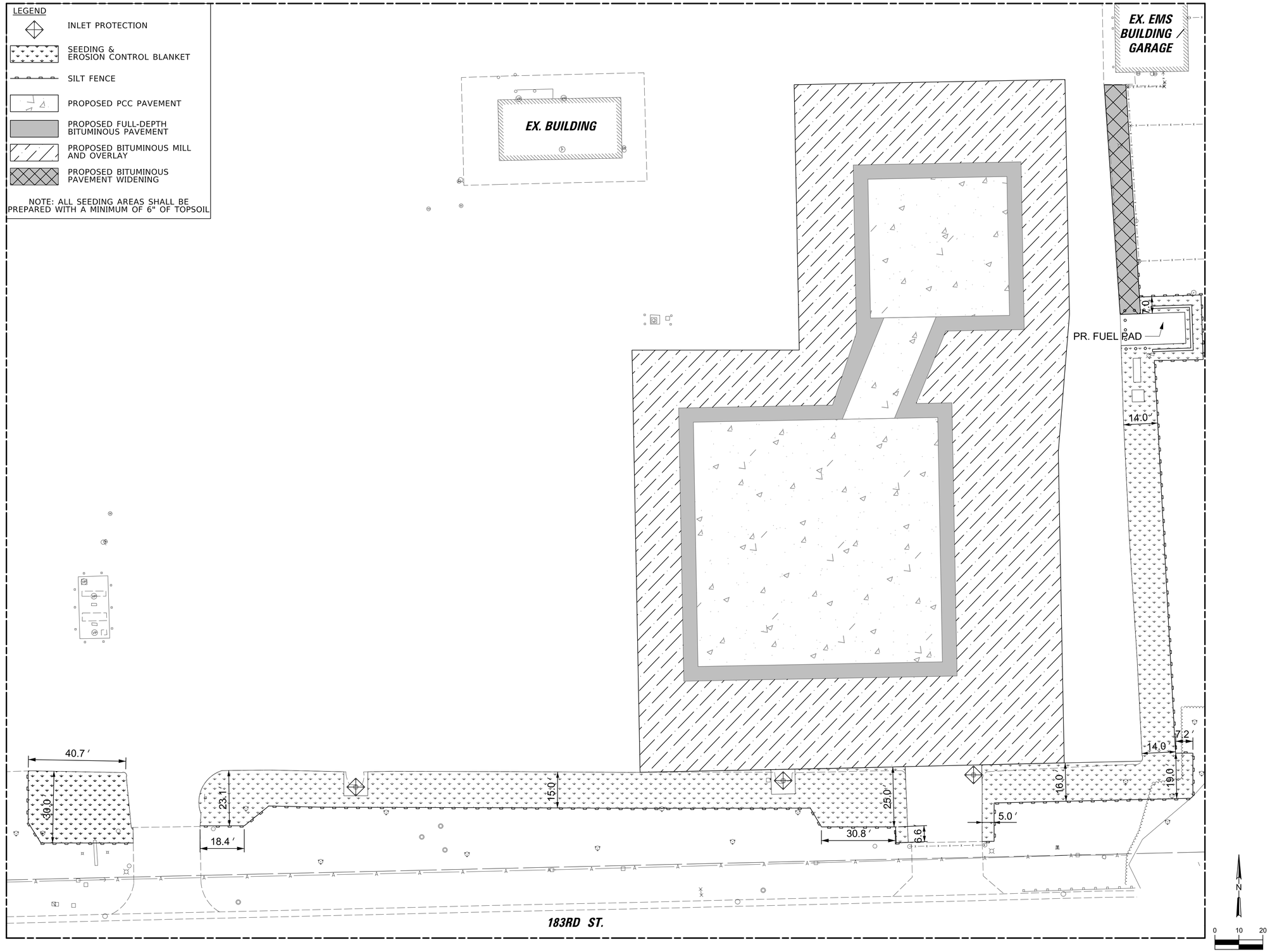
SHEET NO.
SHEET 5 OF 30

APPROVED **SM**
CHECKED **SM**
DRAWN BY **KWS**
DRAWING NO. **C3.1**

LEGEND

- INLET PROTECTION
- SEEDING & EROSION CONTROL BLANKET
- SILT FENCE
- PROPOSED PCC PAVEMENT
- PROPOSED FULL-DEPTH BITUMINOUS PAVEMENT
- PROPOSED BITUMINOUS MILL AND OVERLAY
- PROPOSED BITUMINOUS PAVEMENT WIDENING

NOTE: ALL SEEDING AREAS SHALL BE PREPARED WITH A MINIMUM OF 6" OF TOPSOIL



Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-408-0160 F:312-408-0405

CHRISTOPHER B. BURKE
ENGINEERING, LTD.
16221 W. 159th Street, Suite 201
Lockport, Illinois 60441
(815) 770-2850

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/10/2023

ALEX J. SCHAEFER 062-071146 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ENGINEER — 3/9/2023 DATE

ALEX SCHAEFER, PE
ILLINOIS REGISTRATION No. 062-071146
EXPIRATION DATE: 11/30/23

DRAWING TITLE

SOIL & EROSION CONTROL PLAN

SHEET NO.
6 OF 30

APPROVED AJS

CHECKED AJS

DRAWN BY JRS

DRAWING NO.
C4.0

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DATE PRINTED: 3/9/2023
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SOIL EROSION CONTROL AND SEDIMENT CONTROL NOTES

1. SOIL EROSION AND SEDIMENT CONTROL (SESC) FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.

2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN MUST BE MAINTAINED ON THE SITE AT ALL TIMES.

3. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE VILLAGE, OR THEIR AUTHORIZED REPRESENTATIVE. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY.

4. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROGRESSES, AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.

5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT ALL WATER (GROUND, STORM, AND CONSTRUCTION) DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREED OF WATER, BYPASS PUMPING, INCLUDING SILT BAGS AND AN ENERGY DISSIPATION SURFACE FOR THE PUMPS, SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SIZE THE PUMPS APPROPRIATELY.

6. DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE PLACED IN A STABILIZED SUMP PIT OR FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G., STONE), SEDIMENT FILTER BAG, OR BOTH. ADEQUATE EROSION AND SEDIMENT CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. DEWATERING SEDIMENT LADEN WATER DIRECTLY INTO FIELD TILES, STORM WATER STRUCTURES, OR "WATERS OF THE US" IS PROHIBITED.

7. SEDIMENT CONTROL BMPS SHALL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OF LEAVES THE SITE. THESE LOCATIONS SHALL BE DETERMINED IN THE FIELD, AS NEEDED. GRAVELED ROADS, RUMBLE STRIPS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, MUST BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING PUBLIC OR PRIVATE ROADWAY MUST BE REMOVED IMMEDIATELY.

8. STOCK PILES OR SOIL MUST NOT BE LOCATED IN FLOOD PLAINS, RIPARIAN AREAS (VEGETATED FLOOD PLAINS), WETLANDS AND WATERS OF THE U.S., UNLESS OTHERWISE AUTHORIZED BY THE RELEVANT PERMITTING AUTHORITY. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, PERIMETER SEDIMENT BARRIER MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

9. ALL PROPOSED AND EXISTING STORM SEWER INLET STRUCTURES (INCLUDING INLETS LOCATED WITHIN THE HAUL ROUTES) MUST BE PROTECTED WITH STORM SEWER INLET PROTECTION (I.E. INLET FILTERS) PER INLET PROTECTION DETAILS IN THE PLANS.

10. STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS FOLLOWS:

    - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

    - ON AREAS WHERE CONSTRUCTION ACTIVITY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED.

11. THE VILLAGE AND CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON WHO WILL BE RESPONSIBLE FOR CONDUCTING SITE INSPECTIONS IN COMPLIANCE WITH THE ILR10 NPDES PERMIT. AFTER EACH INSPECTION, AN AER 2259 FORM SHOULD BE PREPARED BY THE PERSON WHO PERFORMED THE INSPECTION. THE INSPECTION REPORT SHOULD BE MAINTAINED ON SITE AS PART OF THE PLAN. INSPECTIONS SHOULD BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM, OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY, THAT IS 0.5 INCHES OR GREATER.

    INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO WINTER/FROZEN CONDITIONS. INSPECTIONS MUST COMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS A 0.5" OR GREATER RAIN EVENT, OR DISCHARGE DUE TO SNOWMELT OCCURS.

12. THE WILL / SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (WSCSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

13. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS, A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE WSCSWCD.

14. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WSCSWCD.

15. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S), WHO MAY PERFORM WORK ON THIS SITE/PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

16. THE CONTRACTOR SHALL PROVIDE THE DETAIL FOR AND LOCATION OF A TEMPORARY CONCRETE WASHOUT FACILITY FOR APPROVAL BY THE ENGINEER AND/OR VILLAGE OF TINLEY PARK.

17. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL POST A SIGN OR OTHER NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE. IF THIS IS NOT POSSIBLE, THEN IT MAY BE PERMITTED TO POST THIS NOTICE IN A LOCAL PUBLIC BUILDING. THE SIGN OR NOTICE MUST CONTAIN THE FOLLOWING:

    1. A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) AS SUBMITTED TO THE IEPA
    2. THE LOCATION OF THE SWPPP AND NAME AND 24/7 TELEPHONE NUMBER OF THE CONTACT PERSON

18. AFTER PROJECT FINAL ACCEPTANCE, THE CONTRACTOR SHALL COMPLETE AND SUBMIT A NOTICE OF TERMINATION (NOT) FORM PROPERLY SIGNED TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. FORMS FOR THE IEPA SHALL BE MAILED TO THE FOLLOWING ADDRESS:

    ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
    DIVISION OF WATER POLLUTION CONTROL, MAIL CODE #15
    ATTN: PERMIT SECTION
    1021 NORTH GRAND AVENUE EAST
    P.O. BOX 19276
    SPRINGFIELD, ILLINOIS 62794-9276

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CHRISTOPHER B. BURKE
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16221 W. 159th Street, Suite 201
Lockport, Illinois 60441
(815) 770-2850

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/10/2023

ALEX J. SCHAEFER 062-071146 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ENGINEER — DATE 3/9/2023

ALEX SCHAEFER, PE
ILLINOIS REGISTRATION No. 062-071146
EXPIRATION DATE: 11/30/23

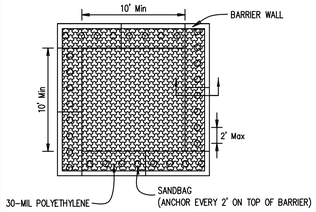
DRAWING TITLE

EROSION AND SEDIMENT CONTROL NOTES

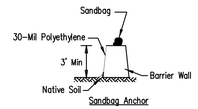
SHEET NO.
7 OF 30

APPROVED AJS
CHECKED AJS
DRAWN BY JRS

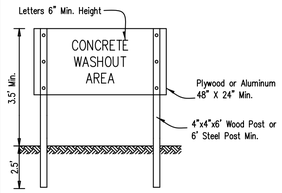
DRAWING NO.
C4.1



PLAN VIEW



BARRIER WALL ANCHOR SECTION

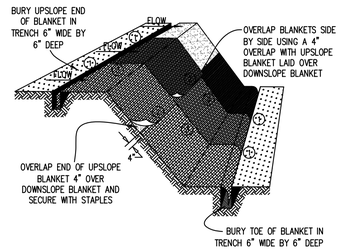


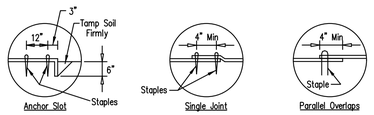
SIGN DETAIL

NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

C P & D, Inc.	No. Revision / Description	Date	TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL
	ADDED SIGN DETAIL	4/29/11	Designed ____ Date ____
			Drawn B. JOHNSON ____ Date ____
			Checked ____ Date ____
			Approved ____ Date ____





DETAIL 1 DETAIL 2 DETAIL 3

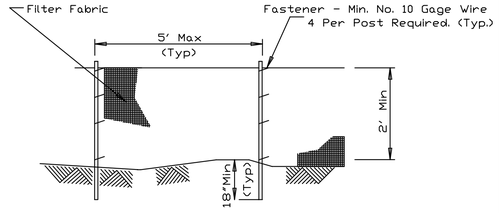
STAPLE DETAIL PUSH PIN DETAIL

NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

C P & D, Inc.	No. Revision / Description	Date	EROSION CONTROL BLANKET INSTALLATION DETAILS
	ADDED SIGN DETAIL	4/29/11	Designed ____ Date ____
			Drawn B. JOHNSON ____ Date ____
			Checked ____ Date ____
			Approved ____ Date ____

SILT FENCE PLAN



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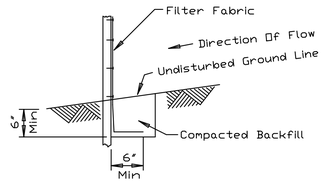
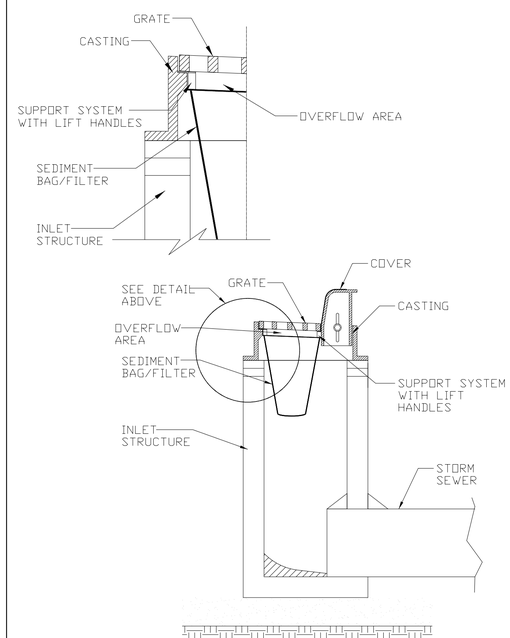


FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

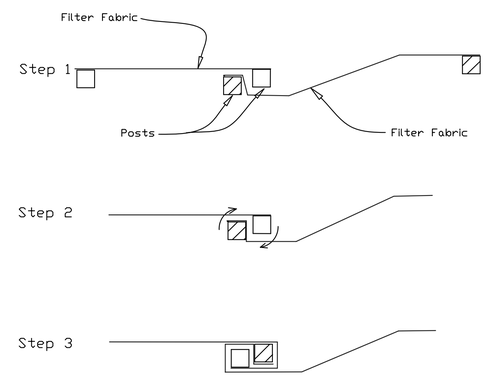
REFERENCE	STANDARD DWG. NO.
Project ____	IUM-620
Designed ____ Date ____	SHEET 1 OF 2
Checked ____ Date ____	DATE 3-16-12
Approved ____ Date ____	

INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE	STANDARD DWG. NO.
Project ____	IUM-561D
Designed ____ Date ____	SHEET 1 OF 1
Checked ____ Date ____	DATE 01-11-11
Approved ____ Date ____	

SILT FENCE - SPLICING TWO FENCES



ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE	STANDARD DWG. NO.
Project ____	IUM-620B(W)
Designed ____ Date ____	SHEET 1 OF 1
Checked ____ Date ____	DATE 3-16-2012
Approved ____ Date ____	

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-408-0160 F:312-408-0405

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IDA No: TF8-5050

CONTRACT NO. TI001

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ENGINEER 3/9/2023 DATE

ALEX SCHAEFER, PE
ILLINOIS REGISTRATION No. 062-071146
EXPIRATION DATE: 11/30/23

DRAWING TITLE

EROSION AND SEDIMENT CONTROL DETAILS

SHEET NO.
8 OF 30

APPROVED AJS

CHECKED AJS

DRAWN BY JRS

DRAWING NO.
C4.2

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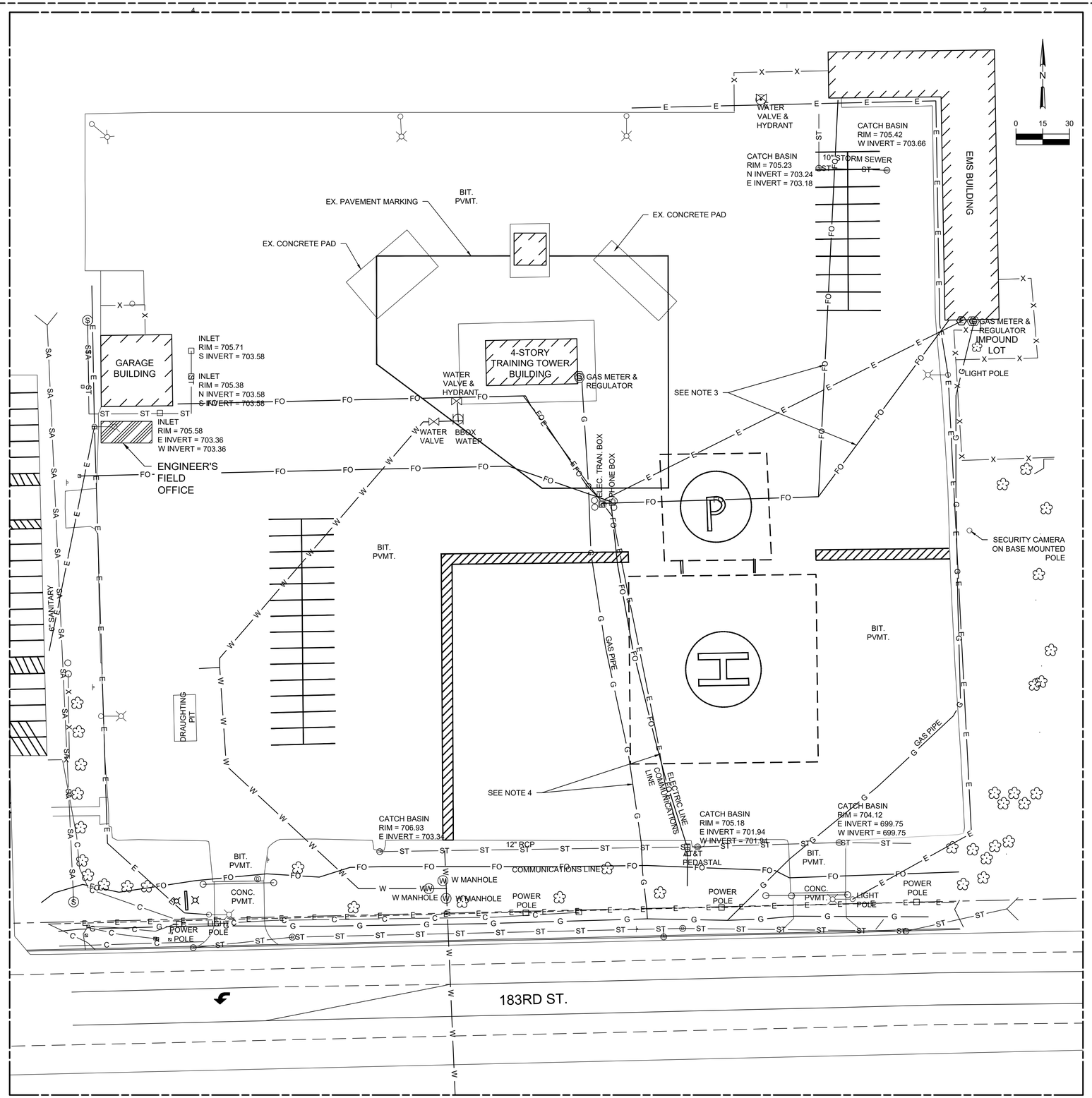

LEGEND

- EX. STORM SEWER
- EX. SANITARY MAIN
- EX. NATURAL GAS
- EX. FIBER / TELECOMMUNICATIONS LINE
- EX. ELECTRIC LINE
- EX. FENCE.
- EX. PROPERTY LINE
- EX. PAVEMENT MARKING
- EX. DRAINAGE MANHOLE
- EX. CATCH BASIN
- EX. INLET
- EX. DRAINAGE END SECTION
- EX. SANITARY MANHOLE
- EX. WATER VALVE
- EX. WATER B-BOX
- EX. GAS METER / REGULATOR
- EX. OVERHANG LIGHT POLE
- EX. POWER POLE
- EX. GROUND FLOOD LIGHT
- EX. GATE POST
- EX. TREE
- EX. ROADWAY SIGN
- PR. ENGINEER'S FIELD OFFICE

NOTES

1. THE CONTRACTOR SHALL CONDUCT THEIR OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT THIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL TAKE MEASURES TO PROTECT EXISTING PAVEMENTS. ANY PAVEMENTS DAMAGED BY THE CONTRACTOR'S EQUIPMENT SHALL BE SAWCUT PER THE OWNER OR RESIDENT ENGINEER AND REPLACED IN KIND AT NO ADDITIONAL COST TO THE CONTRACT.
3. FIBER OPTIC (FO) LINES FROM UTILITY ATLAS. LINES NOT FOUND IN FIELD DURING DESIGN UTILITY SURVEYS.
4. ELECTRIC AND NATURAL GAS LINES POT-HOLED DURING DESIGN UTILITY SURVEYS AT SOUTH EDGE OF PAVED AREA. ELECTRIC 53" BELOW EXISTING SURFACE. GAS 58" DEEP.

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-496-2800 F:312-496-0415

Village of Tinley Park ILLINOIS

No. Description By Chk. App. Date
Issues

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
EXISTING CONDITIONS

SHEET NO.
SHEET 9 OF 30

APPROVED **SM**
CHECKED **SM**
DRAWN BY **KWS**

DRAWING NO.
C5.0

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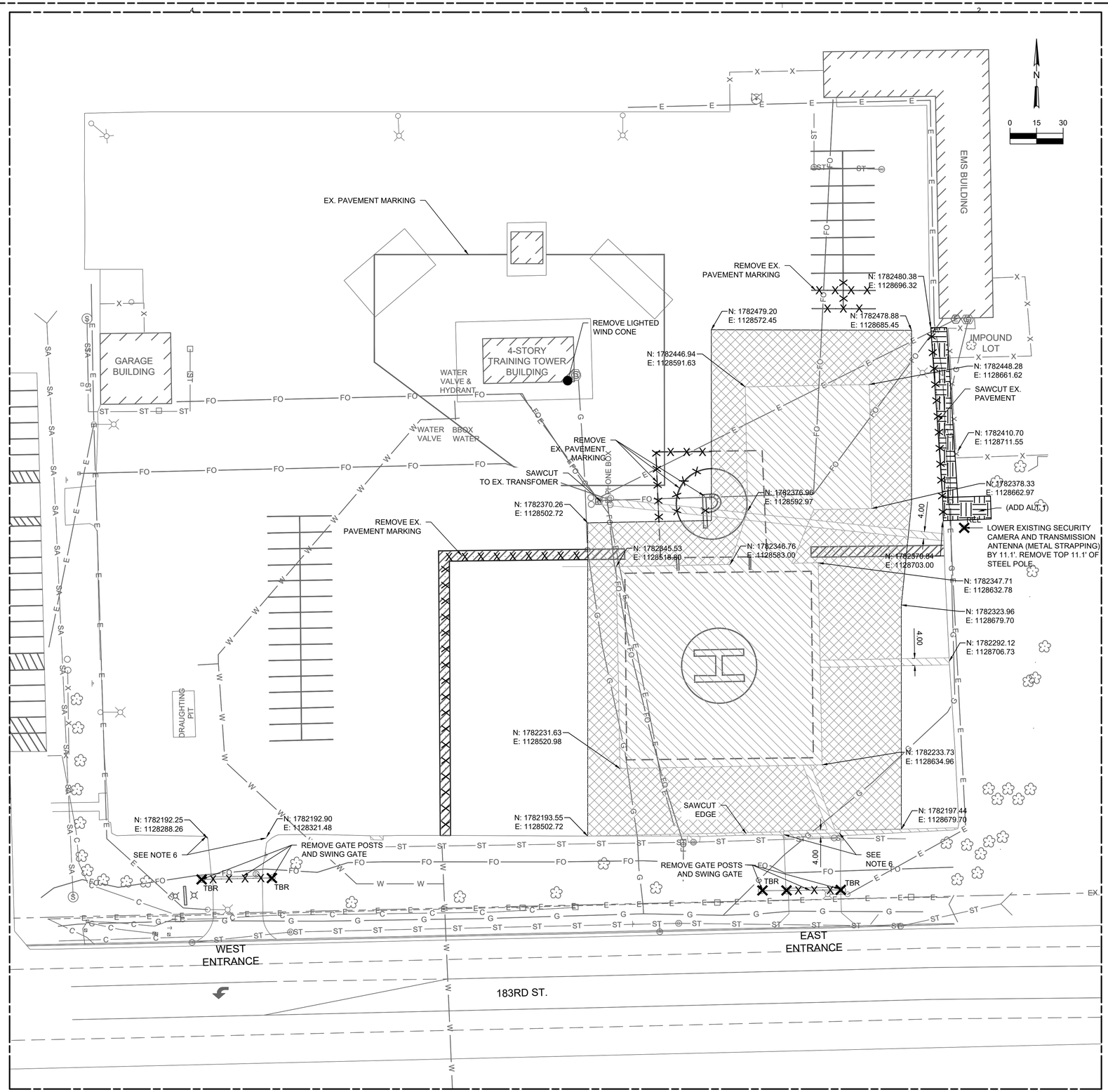

LEGEND

- PR. VARIABLE DEPTH BITUMINOUS MILLING
- PR. FULL DEPTH PAVEMENT REMOVAL
- PR. REMOVAL LINE ITEM
- PR. REMOVAL ITEM
- TBR — PR. ITEM TO BE REMOVED
- PR. UNCLASSIFIED EXCAVATION

NOTES

1. THE INFORMATION SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM AVAILABLE AS-BUILT RECORDS. NEITHER THE OWNER OR THE ENGINEER ASSUMES RESPONSIBILITY TO THE ACCURACY OF THE INFORMATION AND THERE IS NO GUARANTEE THAT ETHER EXPRESSED OR IMPLIED THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS.
2. THE EXISTING BITUMINOUS PAVEMENT SHALL BE SAWCUT AT THE MILLING AND/OR PAVEMENT REMOVAL LIMITS TO PROVIDE A CLEAN VERTICAL FACE
3. THE CONTRACTOR SHALL TAKE MEASURES TO PROTECT EXISTING PAVEMENTS. ANY PAVEMENTS DAMAGED BY THE CONTRACTOR'S EQUIPMENT SHALL BE SAWCUT PER THE OWNER OR RESIDENT ENGINEER AND REPLACED IN KIND AT NO ADDITIONAL COST TO THE CONTRACT.
4. REMOVALS OF EXISTING AGGREGATE AND SUBGRADE SHALL BE PAID FOR UNDER ITEM AR152410 - UNCLASSIFIED EXCAVATION.
5. SAW CUT AND REMOVE ASPHALT FILLETS AT ENTRANCES TO FACILITATE GATE POST INSTALLATION. PAVEMENT REMOVAL LIMITS SHALL BE APPROVED BY THE RESIDENT ENGINEER.
6. CONTRACTOR SHALL CONSTRUCT A VARIABLE MILL TO PROVIDE A MINIMUM LIFT OF 2-INCH BITUMINOUS OVERLAY AS SHOWN IN THE PAVEMENT TYPICAL SECTIONS. FOR OVERLAY AREAS ABOVE EX. GRADE, A MINIMUM 1/2 INCH SURFACE MILL SHALL BE USED TO PROVIDE A CONSTRUCTIBLE SURFACE FOR NEW PAVING. SEE SHEET C.8 SERIES FOR EXISTING AND PROPOSED ELEVATIONS.

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-496-2900 F:312-496-0495

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED SITEWORK DEMOLITION

SHEET NO.
SHEET 10 OF 30

APPROVED **SM**
CHECKED **SM**
DRAWN BY **KWS**
DRAWING NO. **C6.0**

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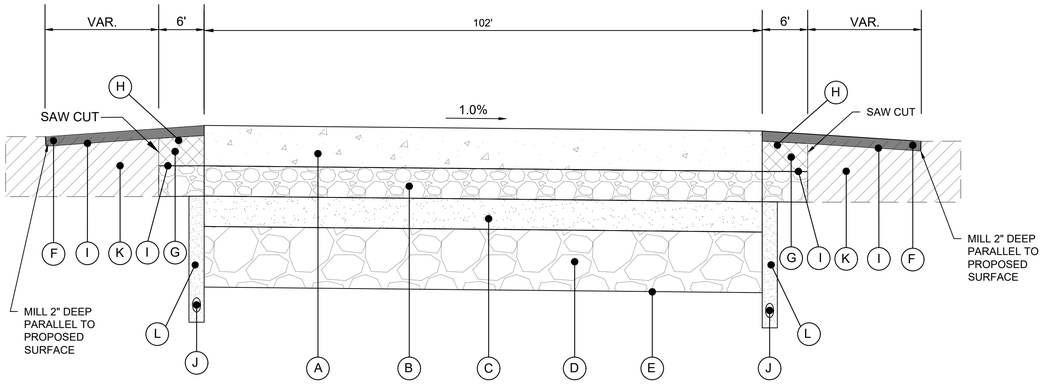
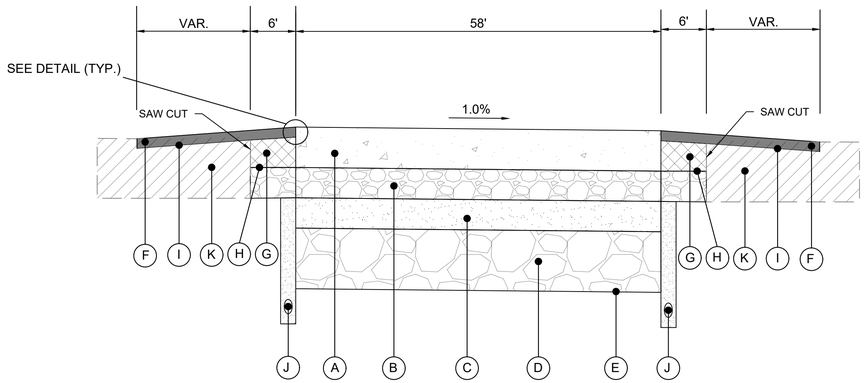


NEW HELISTOP PCC APRON

NOT TO SCALE



NEW HELISTOP PCC PARKING APRON

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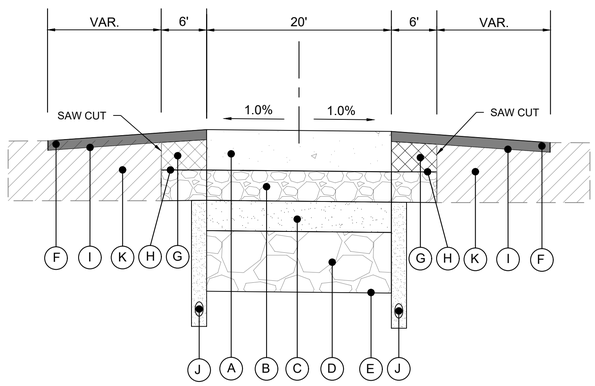


NEW PCC TAXIWAY

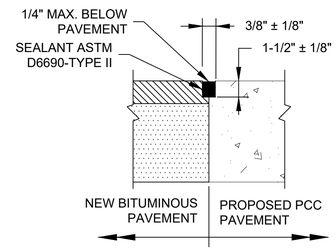
NOT TO SCALE

LEGEND

- (A) PROPOSED 8-INCH PCC PAVEMENT, ITEM AR501508
- (B) PROPOSED 6-INCH GRANULAR DRAINAGE SUBBASE, ITEM AR154606
- (C) PROPOSED 6- INCH CRUSHED AGGREGATE BASE COURSE (CAPPING STONE), ITEM AR209606
- (D) PROPOSED 12-INCH POROUS GRANULAR EMBANKMENT, ITEM AR208520
- (E) PROPOSED SOIL STABILIZATION FABRIC, ITEM AR156153
- (F) PROPOSED 2-INCH BITUMINOUS SURFACE COURSE-SUPERPAVE, ITEM AR401613
- (G) PROPOSED 6-INCH BITUMINOUS BASE COURSE-SUPERPAVE (VARIABLE DEPTH), ITEM AR403613
- (H) PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- (I) PROPOSED BITUMINOUS PRIME COAT, AR602510
- (J) PROPOSED 6-INCH PERFORATED UNDERDRAIN, AR0705506
- (K) EXISTING PAVEMENT
- (L) PROPOSED POROUS BACKFILL

GENERAL NOTES

1. BITUMINOUS TACK COAT SHALL BE APPLIED BETWEEN EACH LIFT OF BITUMINOUS BASE COURSE AND BETWEEN THE BITUMINOUS BASE COURSE TOP LIFT AND THE BITUMINOUS SURFACE COURSE. BITUMINOUS PRIME COAT SHALL BE APPLIED BETWEEN THE AGGREGATE BASE COURSE AND THE BITUMINOUS BASE COURSE - NO EXCEPTIONS. SEE SPECIAL PROVISIONS AND STANDARD PROVISIONS.
2. SEPARATION FABRIC, CRUSHED AGGREGATE BASE COURSE AND GRANULAR DRAINAGE SUBBASE SHALL EXTEND 1' OUTSIDE ALL UNCONSTRAINED PAVEMENT EDGES.
3. ALL HMA MIXES SHALL BE SUPERPAVE.



NOTE:
ALL BITUMINOUS/BITUMINOUS JOINT SEALING TO BE PAID UNDER SAW AND SEAL BITUMINOUS JOINTS, ITEM AR401660.

BITUMINOUS/CONCRETE SEAL

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

TYPICAL PAVEMENT SECTIONS & DETAILS

SHEET NO.
SHEET 11 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO.
C7.0

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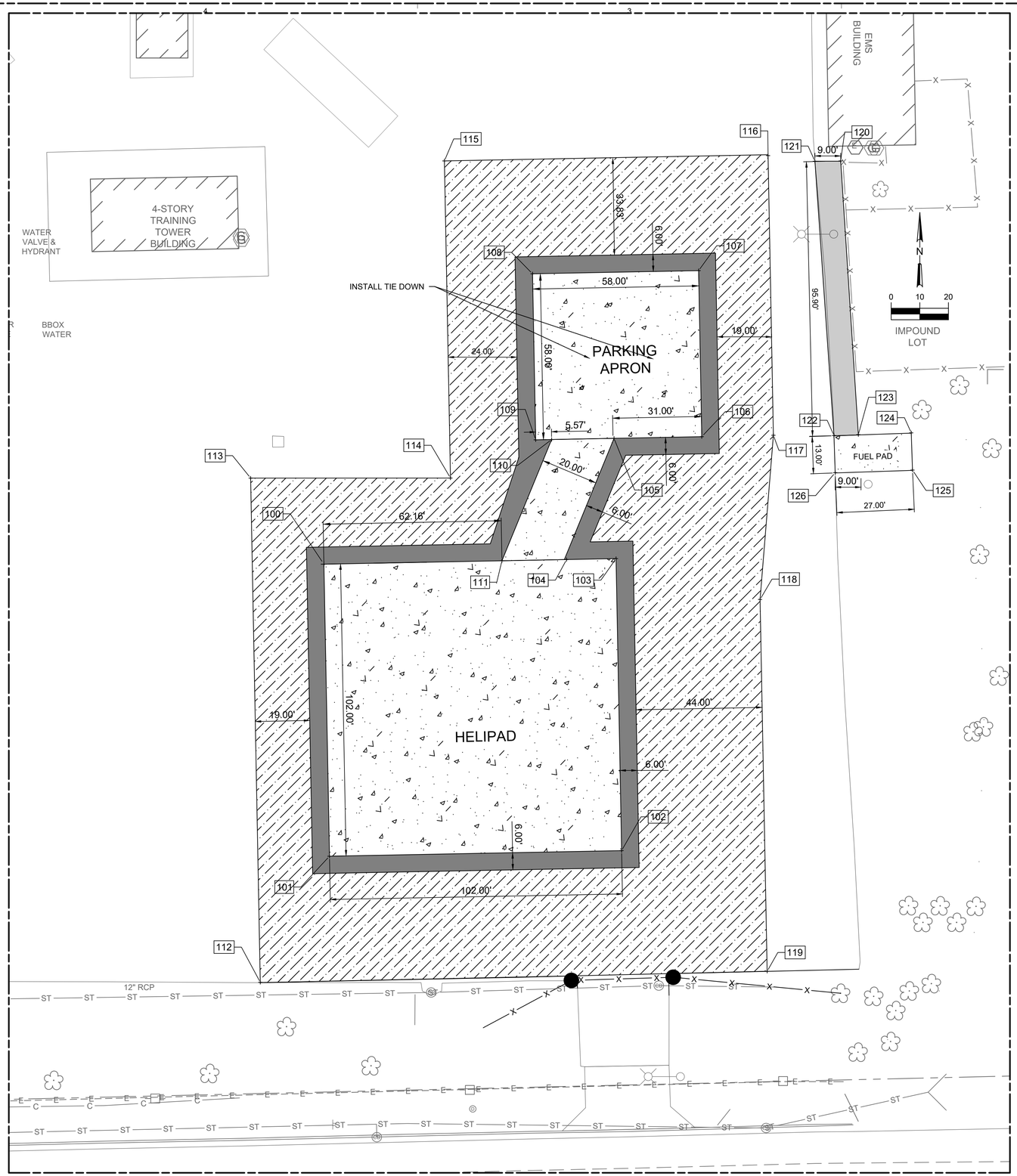

LEGEND

PROPOSED PCC PAVEMENT
- 8-INCH PCC PAVEMENT
- 6-INCH GRANULAR DRAINAGE SUBBASE
- 6-INCH CAPPING STONE (CA-6)
- 12-INCH POROUS GRANULAR EMBANKMENT

PROPOSED FULL-DEPTH BITUMINOUS PAVEMENT
- 2-INCH BITUMINOUS SURFACE COURSE - SUPERPAVE
- 6-INCH BITUMINOUS BASE COURSE - SUPERPAVE
- 6-INCH GRANULAR DRAINAGE SUBBASE

PROPOSED BITUMINOUS MILL AND OVERLAY
- 2-INCH AND VARIES BITUMINOUS SURFACE COURSE - SUPERPAVE

PROPOSED BITUMINOUS PAVEMENT WIDENING
- 2-INCH BITUMINOUS SURFACE COURSE - SUPERPAVE
- 3-INCH BITUMINOUS BASE COURSE - SUPERPAVE
- 6-INCH GRANULAR DRAINAGE SUBBASE

NOTES

1. THE EXISTING BITUMINOUS PAVEMENT SHALL BE SAWCUT AT THE MILLING AND/OR PAVEMENT REMOVAL LIMITS TO PROVIDE A CLEAN VERTICAL FACE.
2. THE INFORMATION SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM AVAILABLE AS-BUILT RECORDS. NEITHER THE OWNER OR THE ENGINEER ASSUMES RESPONSIBILITY TO THE ACCURACY OF THE INFORMATION AND THERE IS NO GUARANTEE THAT ETHER EXPRESSED OR IMPLIED THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS.
3. SEE PROPOSED DEMOLITION SHEETS FOR REMOVE AND REPLACE BITUMINOUS PAVEMENTS AT PROPOSED UTILITY LOCATIONS.

POINT TABLE

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104	1,782,341.30	1,128,609.65	EOP
105	1,782,383.62	1,128,626.22	EOP
106	1,782,384.21	1,128,656.86	EOP
107	1,782,442.20	1,128,655.75	EOP
108	1,782,441.09	1,128,597.76	EOP
109	1,782,383.10	1,128,598.87	EOP
110	1,782,383.21	1,128,604.43	EOP
111	1,782,340.87	1,128,587.08	EOP
112	1,782,193.65	1,128,502.72	EOP
113	1,782,369.74	1,128,499.35	EOP
114	1,782,369.76	1,128,569.12	EOP
115	1,782,480.51	1,128,567.00	EOP
116	1,782,482.35	1,128,679.99	EOP
117	1,782,384.69	1,128,681.85	EOP
118	1,782,327.35	1,128,677.19	EOP
119	1,782,197.51	1,128,679.68	EOP
120	1,782,480.51	1,128,705.33	EOP
121	1,782,480.41	1,128,696.34	EOP
122	1,782,384.63	1,128,702.99	EOP
123	1,782,384.92	1,128,711.51	EOP
124	1,782,385.54	1,128,729.98	EOP
125	1,782,372.55	1,128,730.41	EOP
126	1,782,371.64	1,128,703.43	EOP

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
PROPOSED GEOMETRY & LAYOUT PLAN

SHEET NO.
SHEET 12 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO.
C8.0

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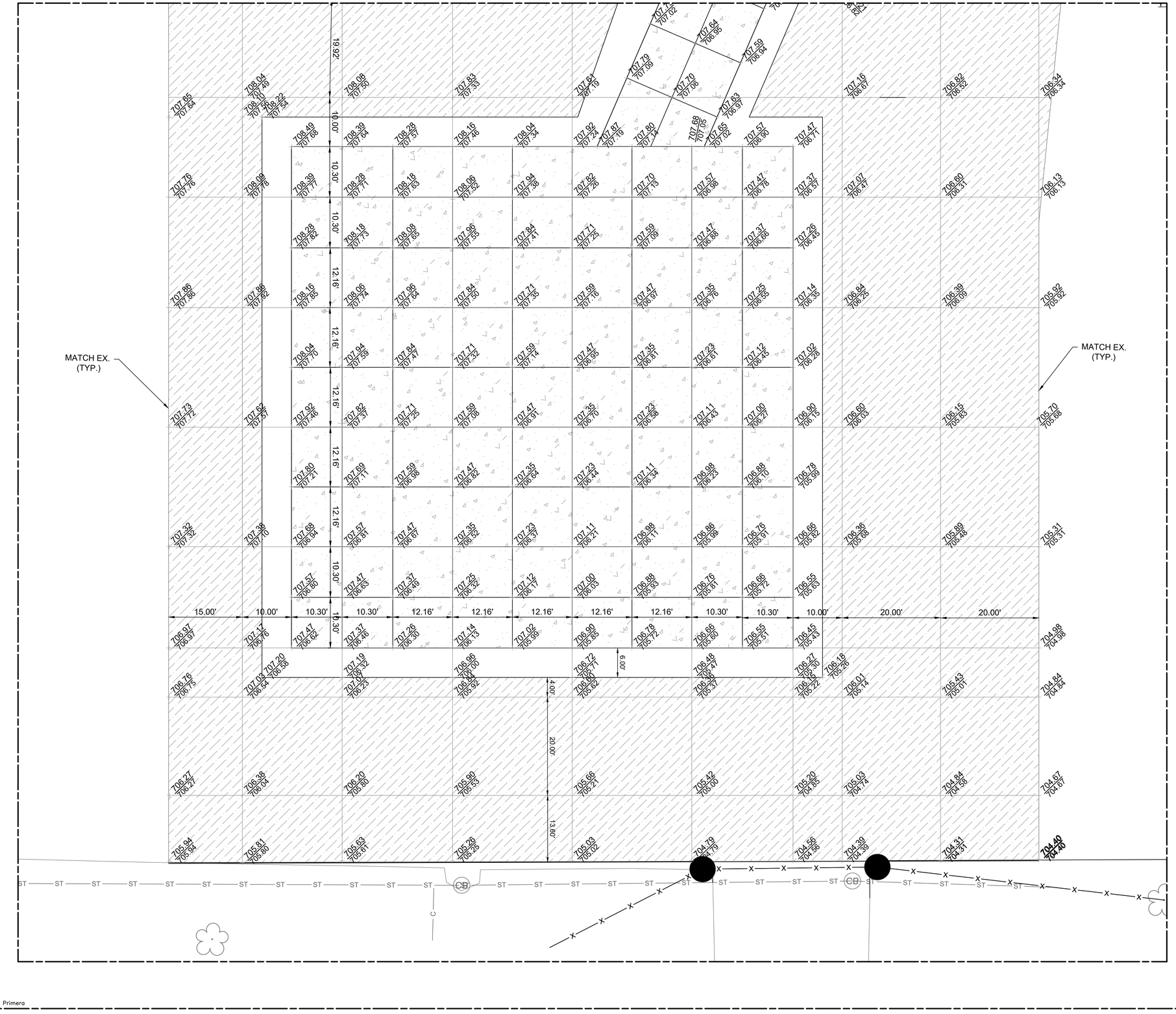
SEE SHEET C8.2



LEGEND

700.00 / 700.00 PROPOSED OVER EXISTING ELEVATION

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-466-3900 F:312-466-9405

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED STAKING PLAN - 1

SHEET NO.
SHEET 13 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO. **C8.1**

LEGEND

700.00 / 700.00 PROPOSED OVER EXISTING ELEVATION

MATCH EX. (TYP.)

EMS BUILDING

IMPOUND LOT

PROVIDE MIN. 1' CLEARANCE FROM EX. FENCE

MATCH EX.

SEE SHEET C8.1

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-466-3900 F:312-466-9415

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED STAKING PLAN - 2

SHEET NO.
SHEET 14 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO. **C8.2**

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LEGEND

700.0 PROPOSED CONTOUR

700.0 EXISTING. CONTOUR

GENERAL NOTES

1. SEE SHEET C14.0 SELF-SERVICE FUELING SYSTEM CONCRETE PAD AND DETAILS, FOR FUEL PAD AND RETAINING WALL LAYOUT.

N

0 10 20

Primera
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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED GRADING PLAN

SHEET NO.
SHEET 15 OF 30

APPROVED
SM

CHECKED
SM

DRAWN BY
KWS

DRAWING NO.
C9.0

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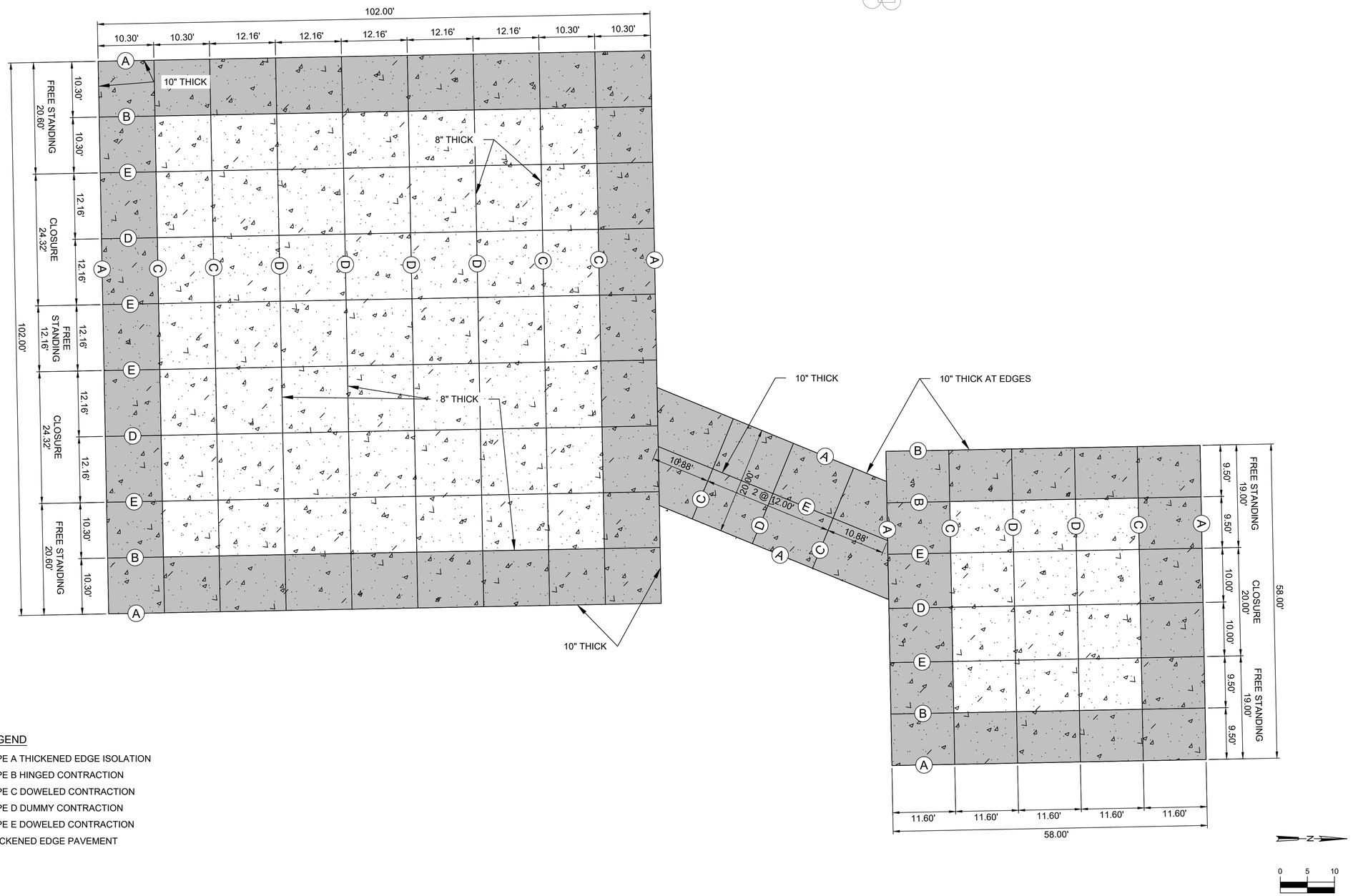

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-606-0900 F:312-606-0905

Village of Tinley Park ILLINOIS

No. Description By Chk. App. Date

Issues

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED JOINTING PLAN

SHEET NO.
SHEET 16 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO.
C10.0

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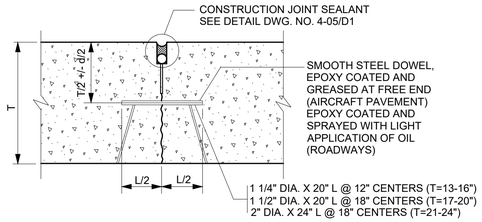
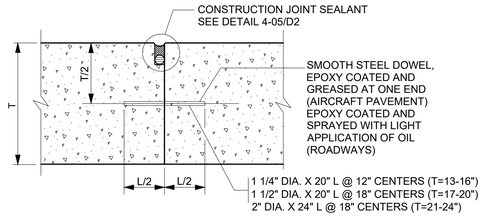


1 DOWELED CONTRACTION JOINT
NTS



2 DOWELED CONSTRUCTION JOINT
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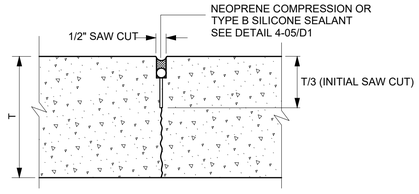

3 DUMMY CONTRACTION JOINT
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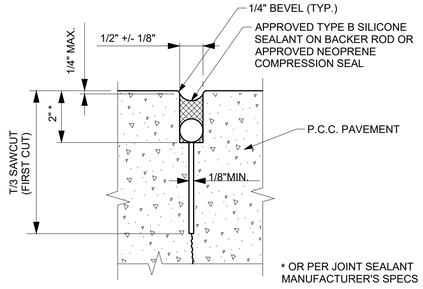
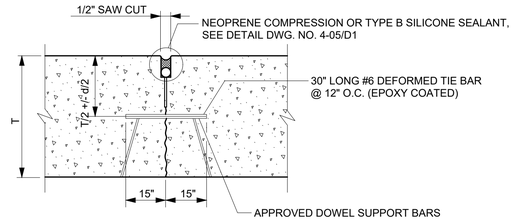
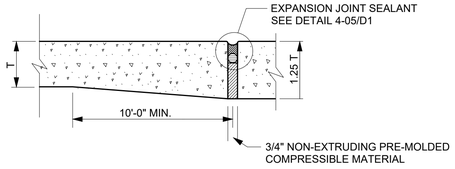


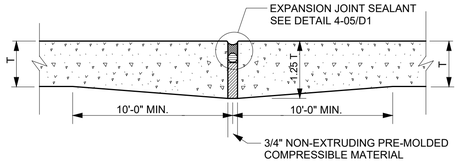
4 CONTRACTION JOINT SEALANT
NTS



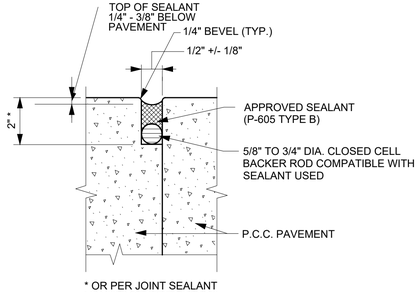
5 LONGITUDINAL GROOVE JOINT
NTS



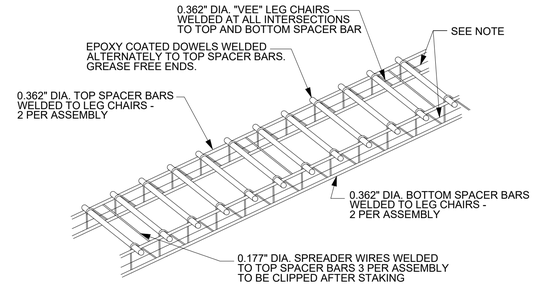
6 THICKENED EDGE EXPANSION JOINT ADJACENT TO EXISTING PAVEMENT
NTS



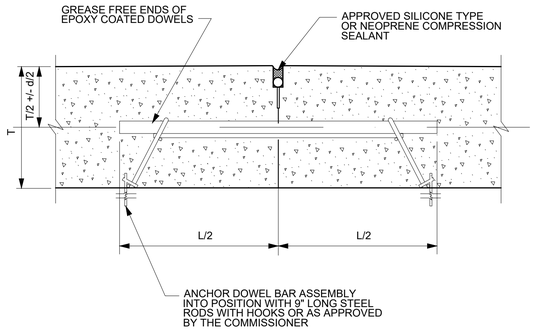
7 THICKENED EDGE EXPANSION JOINT
NTS



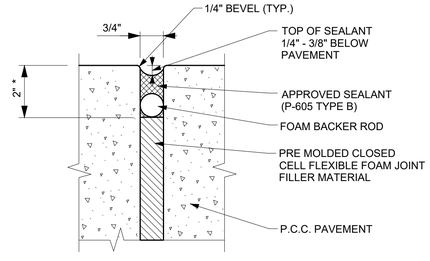
8 CONSTRUCTION JOINT SEALANT
NTS



NOTE:
ADDITIONAL 0.362" DIA. SPACER IS REQUIRED FOR THE DOWEL BAR BASKET ASSEMBLY FOR THE 33" P.C.C. PAVEMENT. BARS WELDED TO LEG CHAIRS - 2 PER ASSEMBLY.



9 TYPICAL DOWEL BAR ASSEMBLY
NTS



10 EXPANSION JOINT SEALANT
NTS

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-496-2800 F:312-496-0415

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
PAVEMENT AND JOINTNG DETAILS

SHEET NO.
SHEET 17 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO.
C10.1

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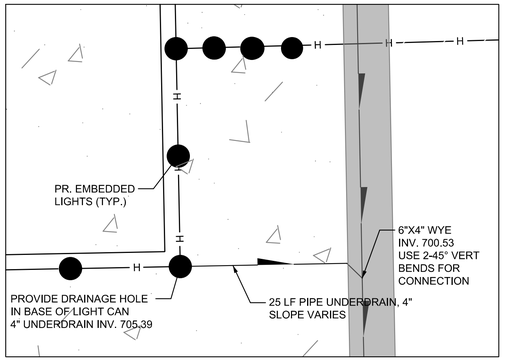
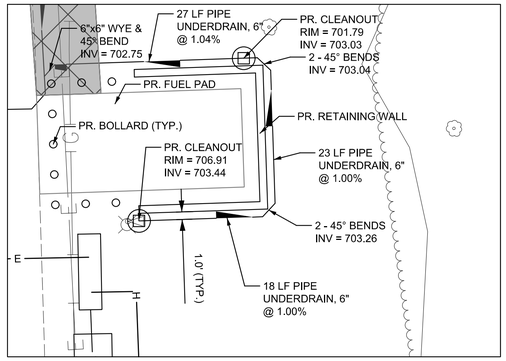


INSET "A"



INSET "B"

LEGEND

PROPOSED UNDERDRAIN

PROPOSED CLEANOUT

EX. EMS BUILDING/GARAGE

EX. BUILDING

NOTE:
THE EXISTING UTILITIES SHOWN ARE A COMBINATION OF FIELD OBSERVED UTILITY MARKINGS AND ATLAS INFORMATION. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL CRITICAL UTILITIES PRIOR TO CONSTRUCTION.

UTILITY SHOWN BASED ON ATLAS INFO CONTRACTOR TO VERIFY LOCATION

59 LF PIPE UNDERDRAIN, 6" @ 1.00%

PR. CLEANOUT RIM = 707.01 INV. = 703.50

PR. CLEANOUT RIM = 707.02 INV. = 703.50

PR. CLEANOUT RIM = 706.93 INV. = 703.43

2 - 45° BENDS INV. = 702.91

86 LF PIPE UNDERDRAIN, 6" @ 0.83%

69 LF PIPE UNDERDRAIN, 6" @ 0.51%

62 LF PIPE UNDERDRAIN, 6" @ 1.00%

SEE INSET "B" FOR FUEL PAD DRAIN DETAIL

UTILITY SHOWN BASED ON ATLAS INFO CONTRACTOR TO VERIFY LOCATION

22.5° BEND INV. = 703.15

2 - 45° BENDS INV. = 702.72

31 LF PIPE UNDERDRAIN, 6" @ 0.52%

63 LF PIPE UNDERDRAIN, 6" @ 0.51%

22.5° BEND & 2 - 45° BENDS INV. = 702.99

74 LF PIPE UNDERDRAIN, 6" @ 1.00%

6"x6" WYE, CLEANOUT, & 45° BEND RIM = 707.31 INV. = 702.29

PR. CLEANOUT & 2-45° BENDS RIM = 708.40 INV. = 702.67

79 LF PIPE UNDERDRAIN, 6" @ 1.16%

2 - 45° BENDS & 22.5° BEND INV. = 701.48

45° BEND & 22.5° BEND INV. = 702.00

TOP UNDERDRAIN = 702.76 UTILITY ELEV. = 703.4± (ASSUMED 53" DEPTH) CONTRACTOR TO FIELD VERIFY

PR. CLEANOUT RIM = 707.45 INV. = 701.37

2 - 45° BENDS INV. = 701.36

PR. EMBEDDED LIGHTS (TYP.)

106 LF PIPE UNDERDRAIN, 6" @ 1.76%

SEE INSET "A" FOR LIGHTING DRAIN DETAIL

110 LF PIPE UNDERDRAIN, 6" @ 1.00%

PR. 6"X6" TEE & CLEANOUT RIM = 706.33 INV. = 700.27

PR. CLEANOUT & 2-45° BENDS RIM = 707.42 INV. = 700.80

46 LF PIPE UNDERDRAIN, 6" @ 1.00%

TOP UNDERDRAIN = 701.30 GAS MAIN ELEV. = 701.8± (ASSUMED 58" DEPTH) CONTRACTOR TO FIELD VERIFY

TOP UNDERDRAIN = 701.21 UTILITY ELEV. = 701.9± (ASSUMED 53" DEPTH) CONTRACTOR TO FIELD VERIFY

CORE HOLE IN EXISTING CB AND CONNECT UNDERDRAIN (INCL. IN COST OF UNDERDRAIN) INV = 699.81

RECONSTRUCT CB & CONSTRUCT 10'X10' CONCRETE PAD (SEE SHEET C11.1)

106 LF PIPE UNDERDRAIN, 6" @ 0.50%

RECONSTRUCT CB & CONSTRUCT 10'X10' CONCRETE PAD (SEE SHEET C11.1)

183RD ST.

ST. LIGHTING

12" RCP CULVERT INV=697.18

18" RCP CULVERT INV=695.24

0 15 30

N

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CHRISTOPHER B. BURKE
ENGINEERING, LTD.
16221 W. 159th Street, Suite 201
Lockport, Illinois 60441
(815) 770-2850

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/10/2023

ALEX J. SCHAEFER 062-071146 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ENGINEER — 3/9/2023 DATE

ALEX SCHAEFER, PE
ILLINOIS REGISTRATION No. 062-071146
EXPIRATION DATE: 11/30/23

DRAWING TITLE

PROPOSED DRAINAGE / EDGE DRAIN LAYOUT

SHEET NO. 18 OF 30

APPROVED AJS

CHECKED AJS

DRAWN BY JRS

DRAWING NO. **C11.0**

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DATE PRINTED: 3/9/2023
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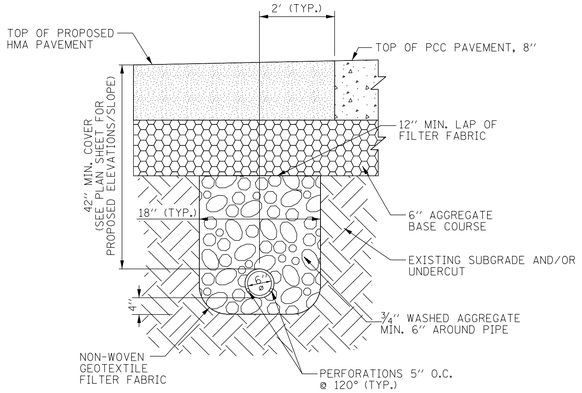
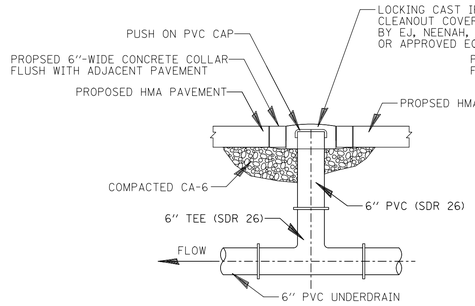


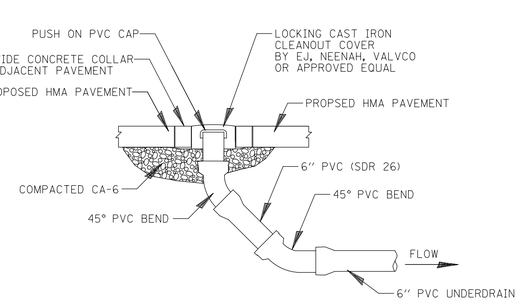
NOTES:

1. THE TRENCH SHALL BE WRAPPED WITH NON-WOVEN GEOTEXTILE FILTER FABRIC.
2. 3/4″ WASHED AGGREGATE SHALL BE PLACED AND ADEQUATELY COMPACTED AROUND THE DRAIN TILE.
3. THE UNDERDRAIN SHALL BE CONNECTED TO AN EXISTING CATCH BASIN. THE HOLE TO CONNECT UNDERDRAIN TO STRUCTURE SHALL BE CORE DRILLED INTO STRUCTURE. HYDRAULIC CEMENT SHALL BE PLACED AROUND THE PIPE TO SEAL THE OPENING, BOTH INSIDE AND OUTSIDE THE STRUCTURE.
4. MIN. SLOPE = 0.5%
5. THE PIPE SHALL BE LAID SO THE HOLES ARE AT THE BOTTOM.
6. A PVC CAP SHALL BE INSTALLED AT THE OPEN END OF THE UNDERDRAIN.
7. PIPE SHALL BE RIGID SDR 26 OR SDR 35.

EDGE DRAIN /PIPE UNDERDRAIN DETAIL



CLEANOUT AT MAINLINE LOCATIONS

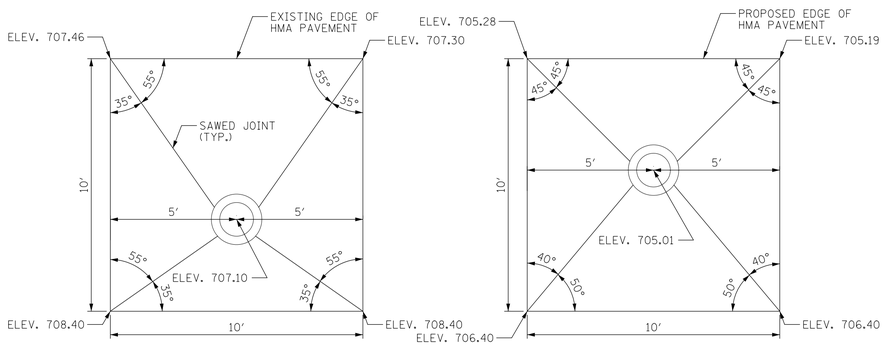


CLEANOUT AT UPSTREAM ENDS

NOTES:

1. THE LOCKING CAST IRON COVER SHALL BE INSTALLED OVER THE PVC CLEANOUT COVER. THE COVER SHALL BE INSTALLED WITHIN A 6″ WIDE CONCRETE COLLAR MATCHING THE THE THICKNESS OF THE ADJACENET PAVEMENT AT A MINIMUM. THE CONTRACTOR SHALL TAKE CARE TO ADEQUATELY SUPPORT THE CLEANOUT AND COVER DURING PAVING OPERATIONS SO THAT IT IS INSTALLED VERTICAL AND FLUSH WITH THE ADJACENT PAVEMENT.

UNDERDRAIN CLEANOUT DETAIL

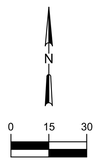


LOCATION A – WEST STRUCTURE **LOCATION B – EAST STRUCTURE**

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING HMA PAVEMENT AND EXCAVATE AS NECESSARY TO CONSTRUCT THE PROPOSED CONCRETE PAD.
2. THE CONCRETE PAD SHALL CONSIST OF 6″ OF PCC OVER 6″ CA-6 AGGREGATE.
3. THE CONTRACTOR SHALL ADJUST THE EXISTING FRAMES TO THE PROPOSED ELEVATIONS.
4. PAVEMENT REMOVAL AND PCC PAD SHALL BE INCLUDED IN THE PRICE OF AR751986 - RECONSTRUCT CATCH BASIN.

CONCRETE PAD AT DRAINAGE STRUCTURE DETAIL



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Lockport, Illinois 60441
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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/10/2023

ALEX J. SCHAEFER 062-071146 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ENGINEER 3/9/2023 DATE

ALEX SCHAEFER, PE
ILLINOIS REGISTRATION No. 062-071146
EXPIRATION DATE: 11/30/23

DRAWING TITLE

DRAINAGE DETAILS

SHEET NO. 19 OF 30

APPROVED AJS

CHECKED AJS

DRAWN BY JRS

DRAWING NO. **C11.1**

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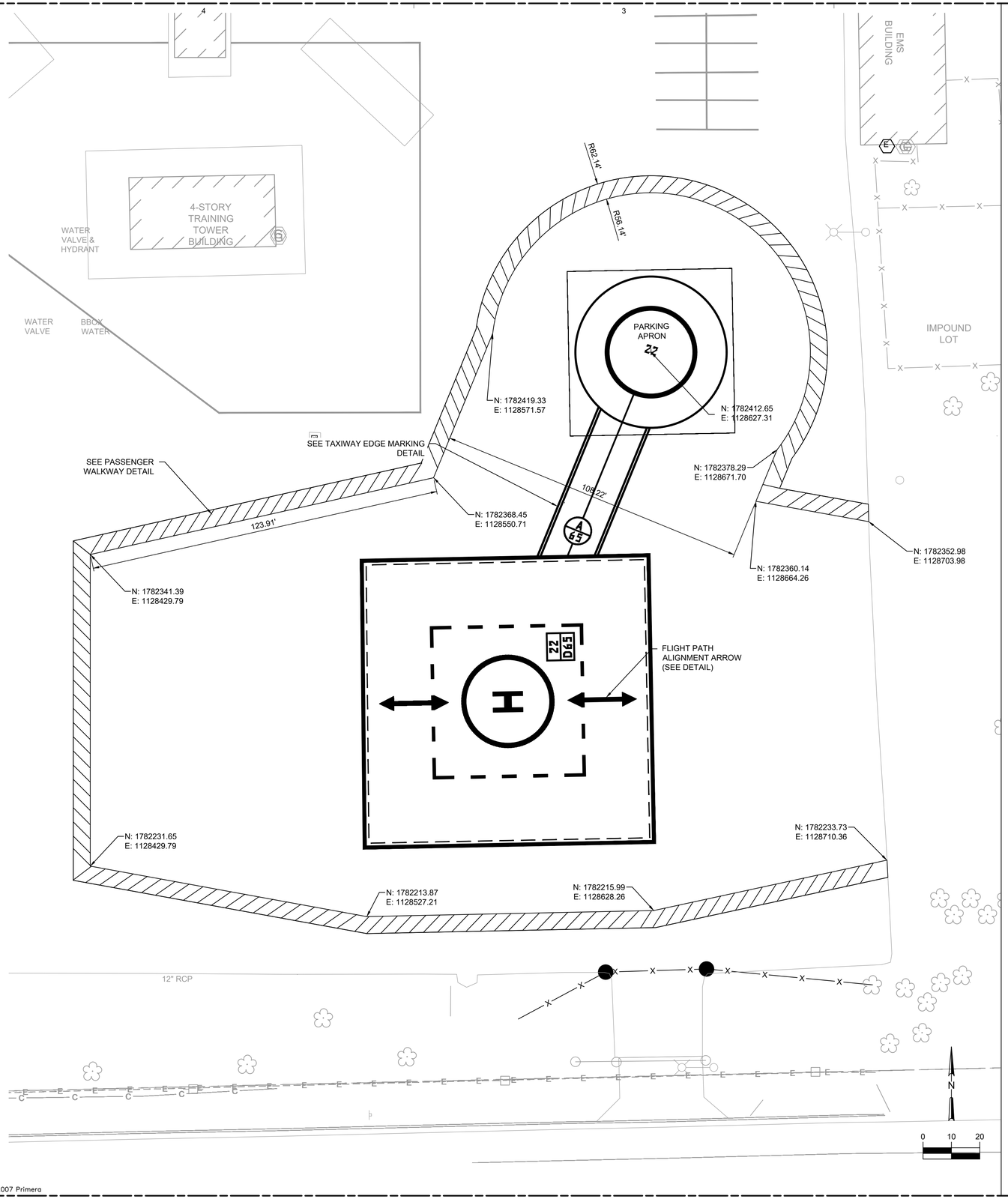
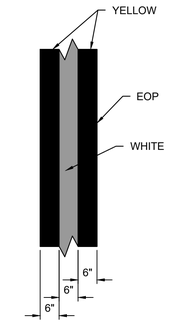
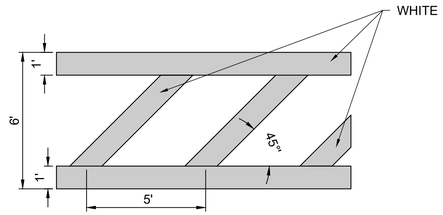
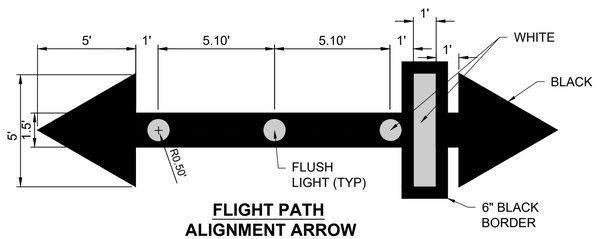




TAXIWAY EDGE MARKING



PASSENGER WALKWAY



FLIGHT PATH ALIGNMENT ARROW

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED PAVEMENT MARKING LAYOUT AND DETAILS - 1

SHEET NO.
SHEET 20 OF 30

APPROVED
SM

CHECKED
SM

DRAWN BY
KWS

DRAWING NO.
C12.0

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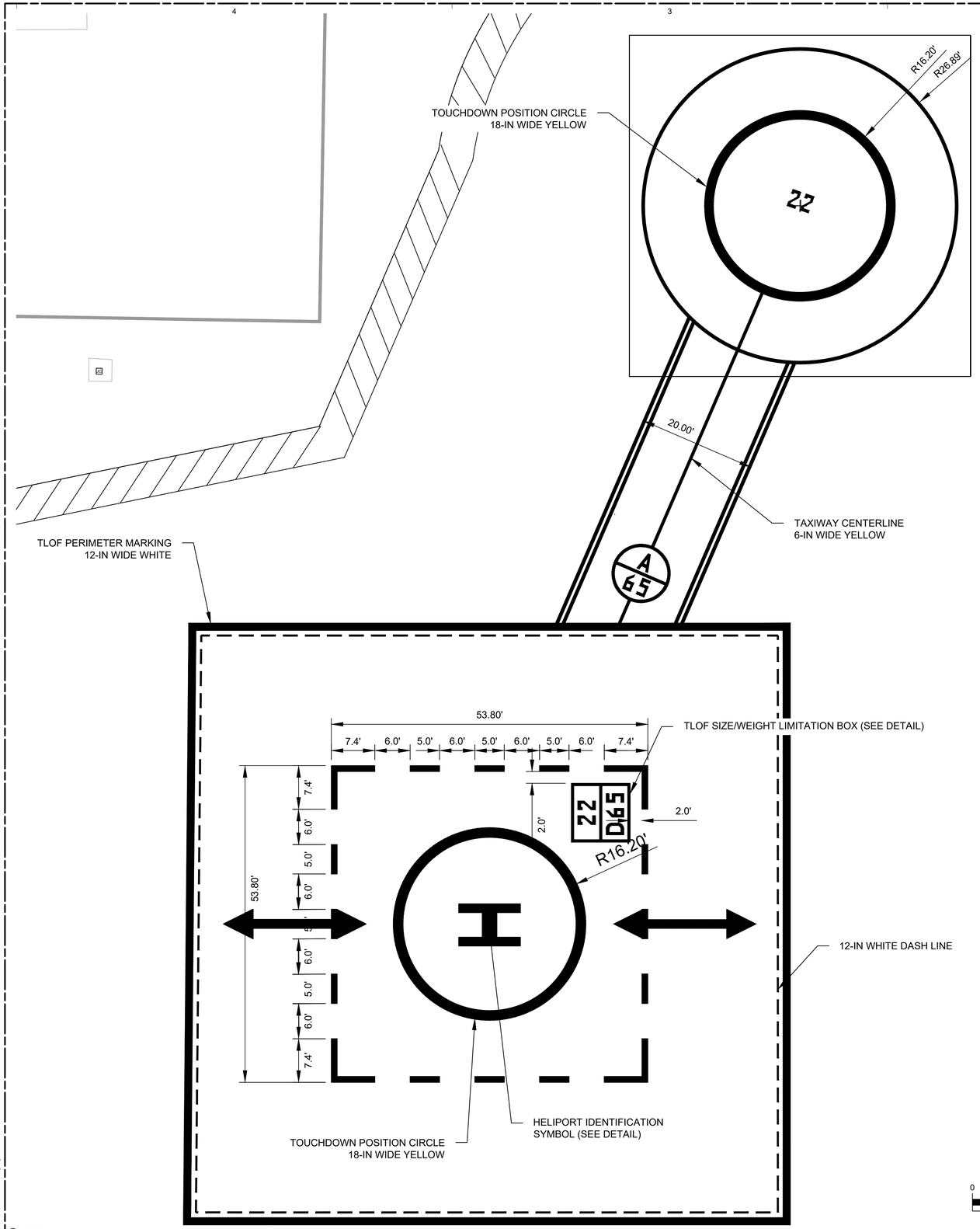
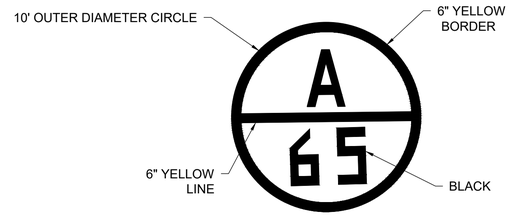
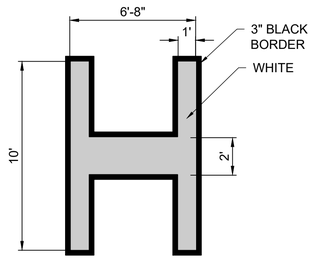
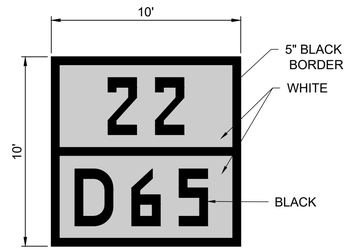




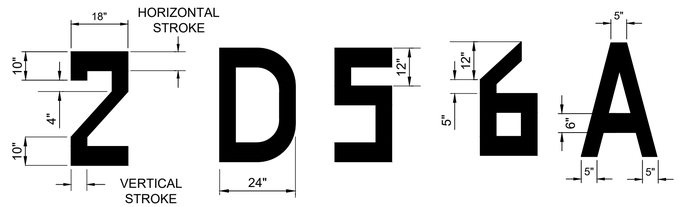
PARKING POSITION IDENTIFICATION SYMBOL



HELIPORT IDENTIFICATION SYMBOL



TLOF SIZE/WEIGHT LIMITATION BOX



TLOF SIZE/WEIGHT NUMBER DIMENSIONS

ALL CHARACTERS HAVE THE FOLLOWING DIMENSIONS, UNLESS OTHERWISE SPECIFIED:

- 36" HEIGHT
- 18" WIDTH
- 5" (10") VERTICAL STROKE
- 6" (12") HORIZONTAL STROKE
- 12" HORIZONTAL SPACING BETWEEN CHARACTERS

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

PROPOSED PAVEMENT MARKING LAYOUT AND DETAILS - 2

SHEET NO.
SHEET 21 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO. **C12.1**

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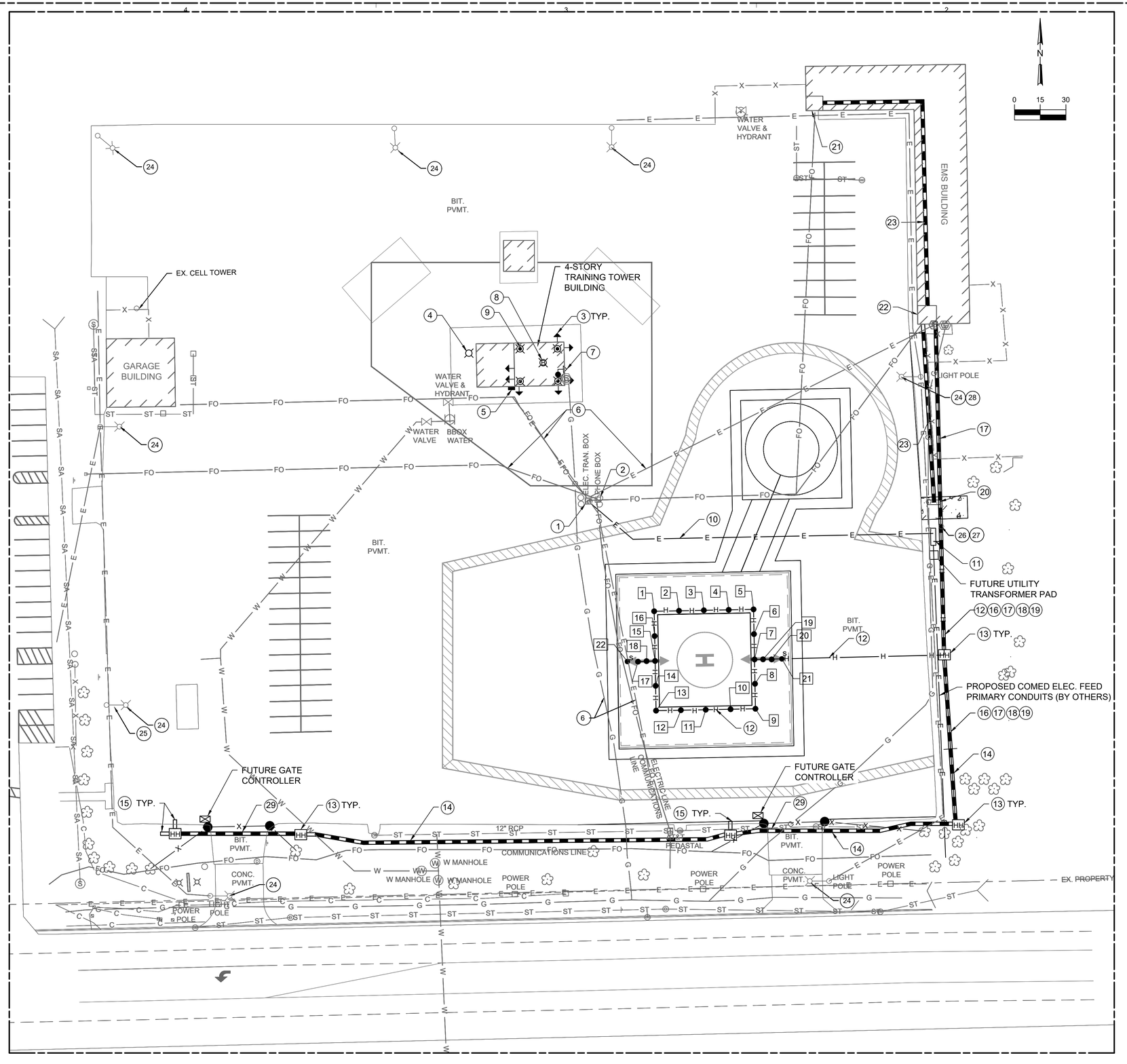

LEGEND

- L-852H IN-PAVEMENT PERIMETER HELISTOP LIGHT
- IN-PAVEMENT LIGHT BASE (EMPTY) SOLID LID
- WALL PACK
- HH — ELECTRICAL HANDHOLE
- E — PROPOSED ELECTRICAL CIRCUIT/CONDUIT
- H — PROPOSED HELISTOP LIGHTING ELECTRICAL CIRCUIT/CONDUIT
- PROPOSED CONDUITS FOR FUTURE USE
- FLOODLIGHT
- OBSTRUCTION LIGHT
- (#) — SEE SHEET C13.1 FOR KEY NOTES
- # — SEE IN-PAVEMENT LIGHT POINT TABLE

GENERAL NOTES:

1. FOR ELECTRICAL KEY MAP NOTES AND GENERAL CONDUIT NOTES, SEE SHEET C13.1 "PROPOSED ELECTRICAL NOTES".
2. IN-PAVEMENT LIGHTS AND IN-PAVEMENT SPARE LIGHT CANS SHALL BE A MINIMUM OF TWO FEET FROM ANY CONCRETE JOINTING. CONTRACTOR SHALL COORDINATE IN-PAVEMENT STRUCTURE LAYOUTS WITH THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION.

IN-PAVEMENT LIGHT POINT TABLE

POINT #	DESCRIPTION	EASTING	NORTHING
1	IN-PAVEMENT LIGHT	1128547.3480	1782318.10
2	IN-PAVEMENT LIGHT	1128561.7981	1782318.38
3	IN-PAVEMENT LIGHT	1128576.3427	1782318.66
4	IN-PAVEMENT LIGHT	1128590.8400	1782318.94
5	IN-PAVEMENT LIGHT	1128605.3374	1782319.21
6	IN-PAVEMENT LIGHT	1128605.5940	1782304.79
7	IN-PAVEMENT LIGHT	1128605.8962	1782289.98
8	IN-PAVEMENT LIGHT	1128606.1864	1782275.80
9	IN-PAVEMENT LIGHT	1128606.4459	1782261.22
10	IN-PAVEMENT LIGHT	1128591.9486	1782260.95
11	IN-PAVEMENT LIGHT	1128577.4512	1782260.67
12	IN-PAVEMENT LIGHT	1128562.9539	1782260.39
13	IN-PAVEMENT LIGHT	1128548.4565	1782260.11
14	IN-PAVEMENT LIGHT	1128548.1789	1782274.64
15	IN-PAVEMENT LIGHT	1128547.9022	1782289.11
16	IN-PAVEMENT LIGHT	1128547.6247	1782303.63
17	IN-PAVEMENT LIGHT	1128537.9087	1782288.68
18	IN-PAVEMENT LIGHT	1128542.9032	1782289.01
19	IN-PAVEMENT LIGHT	1128610.8953	1782290.07
20	IN-PAVEMENT LIGHT	1128615.8972	1782290.02
21	LIGHT CAN	1128621.8503	1782290.35
22	LIGHT CAN	1128531.7052	1782288.80

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

STATE OF ILLINOIS · M. ANEES RAHMAN · 62056318 · LICENSED · PROFESSIONAL ENGINEER

3/13/23

DRAWING TITLE

PROPOSED ELECTRICAL SITE PLAN

SHEET NO.
SHEET 22 OF 30

APPROVED **SM**
CHECKED **AR**
DRAWN BY **KWS**

DRAWING NO.
C13.0

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KEY NOTES

1. EXISTING COMED UTILITY TRANSFORMER TO REMAIN (25KVA, 120/240V, 1-PHASE SECONDARY). SEE PHOTO #1 ON SHEET C13.3.

2. EXISTING AT&T TELEPHONE PEDESTAL TO REMAIN. SEE PHOTO #1 ON SHEET C13.3.

3. EXISTING 250W, HPS, 120V FLOOD LIGHTS TO BE REPLACED. SEE PHOTOS #2 AND #4 ON SHEET C13.3. PROPOSED FIXTURE SHALL BE LED, CUTOFF TYPE FIXTURE HOLOPHANE MODEL: PSLED-P7-30K-MV-55-KS-BZSDP-20KV-TL-WL-04-23-PCLL-F1-AO-PSLEDUBV BZSDP (OR EQUAL), WITH WALL MOUNTABLE TENON BRACKET. MOUNTING SHALL BE SIMILAR TO EXISTING FIXTURES BEING REMOVED, IN THE SAME LOCATION. REUSE EXISTING CONDUITS. EXISTING WIRE TO BE REPLACED WITH 2 #10 , 1 #12 GND. TO EXISTING FIRE TRAINING TOWER PANEL. SEE PHOTO #3 ON SHEET C13.3. (ADD ALT 2).

4. EXISTING 250W. HPS, 120V WALLPACK TYPE FIXTURE TO BE REPLACED. SEE PHOTO #5 ON SHEET C13.3. PROPOSED FIXTURE SHALL BE LED HOLOPHANE MODEL W4GLED-30C1000-30K-T3M-MV-SPD-PCB-A0-SF-BZSDP (OR EQUAL). MOUNTING SHALL BE SIMILAR TO EXISTING FIXTURE BEING REMOVED, IN SAME LOCATION. REUSE EXISTING CONDUITS. EXISTING WIRING TO BE REPLACED 2 #10, 1 #12 GND. TO EXISTING FIRE TRAINING TOWER PANEL. SEE PHOTO #3 SHEET C13.3. (ADD ALT 2).

5. EXISTING FIRE TRAINING TOWER PANEL, 100A, 120/240V, 1-PHASE, 24-CIRCUIT, WITH 100A, 2-POLE MAIN CIRCUIT BREAKER TO REMAIN. SEE PHOTO #3 ON SHEET C13.3.

6. EXISTING UNDERGROUND UTILITIES TO BE LOCATED, FLAGGED, AND PROTECTED DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE PER REQUIREMENTS OF THE OWNER AND ENGINEER.

7. EXISTING ROOF MOUNTED WIND CONE ASSEMBLY TO BE REPLACED. SEE PHOTO #2 SHEET C13.3. PROPOSED WINDCONE SHALL BE ADB SAFEGATE L-806-S1-120-ON-5 (WITH OBSTRUCTION LIGHT) (FAA STYLE 1-B OR EQUAL). PROVIDE LOCAL PHOTOCELL CONTROL AND MOUNTING HARDWARE FOR ROOF/RAILING MOUNTING. PROVIDE DETAILED MOUNTING SHOP DRAWING FOR REVIEW BY OWNER AND ENGINEER. REPLACE EXISTING WIRING WITH 2#10, 1#12 GND. IN EXISTING CONDUIT TO TRAINING TOWER PANEL.

8. PROPOSED L-801(L) HELISTOP ROTATING BEACON. PROPOSED BECAON SHALL BE ADB SAFEGATE MODEL L801HL116 WITH TOWER MOUNTING KIT 4200-0000 (OR EQUAL). PROVIDE DETAILED MOUNTING SHOP DRAWING FOR REVIEW BY OWNER AND ENGINEER. PROVIDE 2#10, 1#12 GND. IN 3/4" C FROM BEACON TO TRAINING TOWER PANEL AND PROVIDE LOCAL PHOTOCELL AT BEACON. PROVIDE 1-POLE, 20-AMP CIRCUIT BREAKER IN PANEL, POLE #17.

9. PROPOSED LED OBSTRUCTION LIGHT (TYP. OF 3). OBSTRUCTION LIGHTS SHALL BE ADB SAFEGATE MODEL RT10-1R07-001 (OR EQUAL). MOUNT TO EXISTING RAILING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER AND ENGINEER DURING CONSTRUCTION. PROVIDE SINGLE PHOTOCELL AND 2#10, 1#12 GND. IN 3/4" C FROM OBSTRUCTION LIGHTS TO TRAINING TOWER PANEL. PROVIDE 1-POLE, 20-AMP CIRCUIT BREAKER IN PANEL, POLE #15.

10. PROPOSED 3 #2 XLP-USE IN 4" C (SCHED 80 PVC) FOR NEW 120/240V, 100A ELECTRIC SERVICE TO PROPOSED UTILITY METER AND PANEL BOARD LP-1. CONTRACTOR SHALL COORDINATE NEW ELECTRIC SERVICE WITH UTILITY COMPANY AND PROVIDE ALL REQUIRED GROUNDING, CONDUITS, WIRING AND OTHER ITEMS, AS REQUIRED, FOR A COMPLETE NEW SERVICE.

11. PROPOSED POWER DISTRIBUTION AND CONTROL RACK. SEE DETAILS ON SHEET C13.2.

12. PROPOSED 2 #6, 1 #8 IN 2" C FROM RADIO CONTROLLER TO HELISTOP LIGHTING. INSTALL SCHED. 80 PVC UNDER PAVEMENT CONDITIONS, AND INSTALL SCHED. 40 PVC UNDER TURF CONDITIONS.

13. PROPOSED 24" W X 36" L X 26" D, TIER 22 QUAZITE STYLE PD (OR EQUAL) HANDHOLE WITH BOLTED COVER. HANDHOLE SHALL BE PLACED ON 4" AGGREGATED COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

14. PROPOSED 4-2"C IN SINGLE TRENCH FOR FUTURE POWER AND CONTROL WIRING AND FIBER OPTIC CABLE.

15. PROPOSED 4-2" CONDUIT STUBS. CAP CONDUITS 5' AWAY FROM HANDHOLE FOR FUTURE EXTENSION.

16. PROPOSED 2" CONDUIT (SPARE) TO POWER DISTRIBUTION AND CONTROLS RACK. STUB UP AND CAP FOR FUTURE USE.

17. PROPOSED, 2" CONDUIT TO EXISTING EMS BUILDING VIA FUEL ISLAND FOR FUTURE FIBER OPTIC CABLE INSTALLATION. ENTER BUILDING AT SOUTHWEST CORNER. SEE PHOTO #6 AND #7 SHEET C13.3.

18. PROPOSED 2" CONDUIT FOR FUTURE WEST GATE POWER AND CONTROL WIRING TO POWER DISTRIBUTION AND CONTROL RACK. STUB UP AND CAP FOR FUTURE USE.

19. PROPOSED 2" CONDUIT FOR FUTURE EAST GATE POWER AND CONTROL WIRING TO POWER DISTRIBUTION AND CONTROL RACK. STUB UP AND CAP FOR FUTURE USE.

20. PROPOSED 6" W X 12" L WINDOW IN CONCRETE PAD FOR FUEL SYSTEM CONDUITS. EXACT LOCATION TO BE FIELD COORDINATED WITH FUEL SYSTEM VENDOR. (ADD ALT 1)
    - 1-1" CONDUIT FOR 240V, 1-PHASE POWER
    - 1-1" CONDUIT FOR CARD READER WIRING
    - 1-1" CONDUIT FOR 120V POWER.
    - 1-1" SPARE CONDUIT

    CONDUITS SHALL BE STUBBED UP WITHIN WINDOW TO 12" ABOVE CONCRETE PAD AND CAPPED, AND EXTENDED TO (11) AND CAPPED.

21. EXISTING FIBER OPTIC PATCH PANEL IN EMS BUILDING. SEE PHOTO #8 ON SHEET C13.3.

22. FIBER OPTIC CONDUIT ENTRANCE/EXIT AND TRANSITION TO CEILING OF EMS BUILDING. SEE PHOTOS #6 AND #7 ON SHEET C13.3.

23. PROPOSED 2" CONDUIT FOR FUTURE FIBER OPTIC CABLE FROM EMS BUILDING PATCH PANEL, THROUGH ATTIC OF EMS BUILDING TO FUEL ISLAND. SEE PHOTOS #6, #7, #8, AND #9 ON SHEET C13.3.

24. REMOVE EXISTING LUMINAIRE AND REPLACE WITH NEW LED ROADWAY LIGHT FIXTURE GE MODEL ERLH013B340ABLCK (OR EQUAL). COMPLETE WITH GE WIRELESS MESH NODE MODEL ELWN1A8UBAAXXAD2 (OR EQUAL). (ADD. ALT. 2)

25. INSTALL NEW FIXED DIRECTIONAL NETWORK SECURITY CAMERA ON EXISTING METAL LIGHT POLE. PROPOSED CAMERA SHALL BE AXIS MODEL Q1786-LE (OR EQUAL). INSTALL NEW POINT-TO-POINT ANTENNA WITH SEPARATE AZIMUTH AND ELEVATION ADJUSTMENTS. PROPOSED ANTENNA SHALL BE LITEBEAM LBE-5AC-GEN2 (OR EQUAL). AIM CAMERA TOWARD HELIPAD. AIM ANTENNA TOWARD EXISTING ON-SITE CELL TOWER. POWER BOTH UNITS FROM EXISTING LIGHT POLE POWER. CONTRACTOR SHALL PROVIDE POLE MOUNTED ENCLOSURE AND ALL REQUIRED POWER AND CONTROL EQUIPMENT ON LIGHT POLE SIMILAR TO EXISTING INSTALLATION. SEE PHOTO #11 ON SHEET 13.3. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE VILLAGE OF TINLEY PARK. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL CCTV SYSTEM. (ADD ALT 2)

26. INSTALL NEW MULTI-DIRECTIONAL SECURITY CAMERA HANWHA TECHWIN MODEL PNM-9322VQP (OR EQUAL). CONNECT CAMERA TO EXISTING POWER AND CONTROL EQUIPMENT ON LIGHT POLE. PROVIDE A COMPLETE AND OPERATIONAL CCTV SYSTEM. (ADD ALT 2)

27. LOWER EXISTING SECURITY CAMERA, SIGNAL TRANSMISSION EQUIPMENT, RED OBSTRUCTION LIGHT, AND PHOTOCELL. ADJUST CABLING. REMOVE TOP 11.1' OF STEEL POLE. CAMERA TO REMAIN IN CONTINUOUS OPERATION. (ADD ALT 2)

28. INSTALL MULTI-DIRECTIONAL SECURITY CAMERA HANWHA TECHWIN MODEL PNM-9322VQP (OR EQUAL). INSTALL NEW POINT-TO-POINT ANTENNA WITH SEPARATE AZIMUTH AND ELEVATION ADJUSTMENTS. PROPOSED ANTENNA SHALL BE LITEBEAM MODEL LBE-5AC-GEN2 (OR EQUAL). AIM ANTENNA TOWARD EXISTING ON-SITE CELL TOWER. POWER BOTH UNITS FROM EXISTING LIGHT POLE POWER. CONTRACTOR SHALL PROVIDE POLE MOUNTED ENCLOSURE AND ALL REQUIRED POWER AND CONTROL EQUIPMENT ON LIGHT POLE SIMILAR TO EXISTING INSTALLATION. SEE PHOTO #11 ON SHEET C.13.3. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE VILLAGE OF TINLEY PARK. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. (ADD ALT 2)

29. PROPOSED 4-WAY, 2" PVC DUCT, DIRECT BURY - SCHED 80.

GENERAL CONDUIT NOTES:

1. ALL BURIED CONDUITS SHALL BE SCHEDULE 40 PVC, EXCEPT (10) AND (12) (WITHIN PAVEMENTS) WHICH SHALL BE SCHEDULE 80 PVC.
2. ALL CONDUIT STUB-UPS ABOVE GROUND SHALL BE GRS, WITH TRANSITION BELOW GRADE FROM PVC-GRS AT 90-DEGREE ELBOW.
3. CONDUIT CONNECTION TO EQUIPMENT WITH POTENTIAL VIBRATIONS (BEACON, WIND CONE, ETC.) SHALL BE MADE WITH WP/FLEX CONDUITS.
4. CONDUIT ROUTINGS SHOWN ON THIS SHEET ARE DIAGRAMMATIC. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. PROPOSED EXACT ROUTES AND COORDINATE ALL WORK WITH THE OWNER AND ENGINEER.
5. ALL CONDUITS AND DUCT BANKS SHALL BE BURIED 30" BELOW FINISHED GRADE (MIN.) EXCEPT FOR CONDUITS FOR IN PAVEMENT HELISTOP LIGHTS WHICH SHALL BE AT THE HEIGHT OF THE LIGHT BASE CONDUIT HUBS +/- 22" BELOW FINISHED GRADE.

GENERAL WIRING NOTES:

1. ALL WIRING SHOWN IN KEY NOTES SHALL BE DUAL RATED THHN/THWN (UG), 600V, 1/C, EXCEPT FOR SERVICE ENTRANCE WIRING WHICH SHALL BE RATED XLP/USE, 600V, 1/C.
2. WHERE EXISTING WIRING IS BEING REMOVED AND REPLACED, THE COST OF REMOVAL OF EXISTING WIRING SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF NEW WIRING.

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

STATE OF ILLINOIS · M. ANEES RAHMAN · 62056318 · LICENSED PROFESSIONAL ENGINEER

3/13/23

DRAWING TITLE

PROPOSED ELECTRICAL NOTES

SHEET NO.
SHEET 23 OF 30

APPROVED **SM**

CHECKED **AR**

DRAWN BY **KWS**

DRAWING NO.
C13.1

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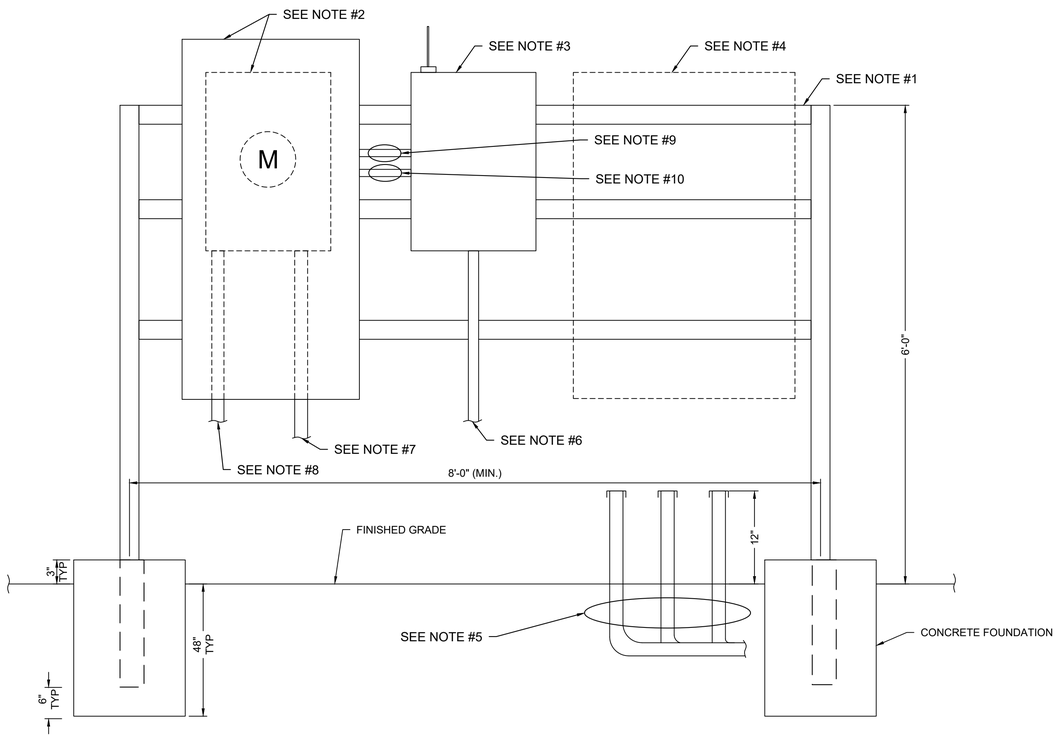
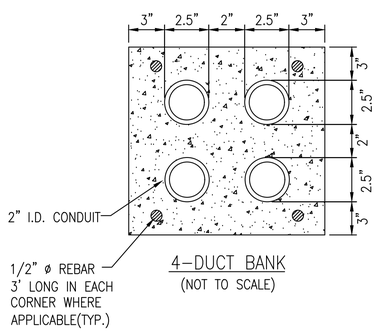


PROPOSED POWER DISTRIBUTION AND CONTROLS RACK

NOT TO SCALE

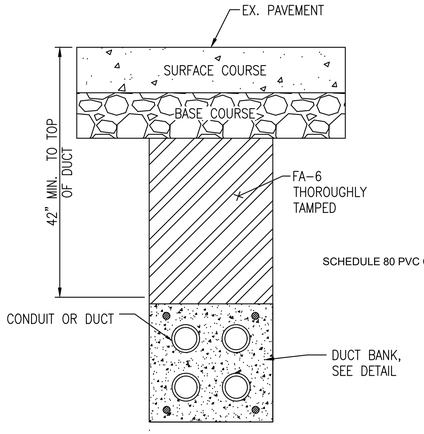
NOTES

1. PROPOSED RACK SHALL BE B-LINE OR UNISTRUT OR EQUAL. CONTRACTOR SHALL CONFIRM DIMENSIONS WITH PROPOSED AND FUTURE EQUIPMENT DIMENSIONS. PROVIDE DETAILED SHOP DRAWING FOR REVIEW BY OWNER AND ENGINEER. PROVIDE CONCRETE FOUNDATIONS AS SHOWN.
2. PROPOSED 120/240V, 1-PHASE, 3-WIRE, 24 CIRCUIT, NEMA 3R, LOCKABLE POWER PANEL "LP-1" WITH UTILITY METER BASE AND UTILITY METER ON BACK SIDE. PANEL SHALL HAVE 100A, 2-POLE MAIN BREAKER AND SHALL BE SERVICE ENTRANCE RATED. PROVIDE 40A, 2-POLE CIRCUIT BREAKER FOR HELIPORT LIGHTS AND 20A, 1-POLE CIRCUIT BREAKER FOR RADIO CONTROLLER.
3. PROPOSED L-854 AIR-TO-GROUND RADIO CONTROLLER. RADIO CONTROLLER SHALL BE ADB-SAFEGATE MODEL RCE-1112 (OR EQUAL). CONTROLLER SHALL COME COMPLETE WITH UNIT MOUNTED ANTENNA FOR SINGLE STEP CONTROL OF PROPOSED HELISTOP LIGHTING.
4. SPACE FOR FUTURE 120/240V, 1-PHASE, 3-WIRE, 42 CIRCUIT, 400A, NEMA 3R, LOCKABLE POWER PANEL AND 400A CT CABINET/METER ON BACK SIDE.
5. PROPOSED 3-2" CONDUITS FROM SOUTHEAST HANDHOLE: CAP COUNDUITS 12" ABOVE FINISH GRADE
   - 1-2" SPARE
   - 1-2" EAST GATE POWER AND CONTROLS
   - 1-2" WEST GATE POWER AND CONTROLS
6. PROPOSED 2 #6, 1 #8 GND. INN 2" C TO HELISTOP LIGHTING.
7. PROPOSED 3 #2 XHHW IN 4" C FROM UTILITY TRANSFORMER
8. PROPOSED 1 #6 GND. TO $\frac{3}{4}$" X10' LONG COPPER CLAD GROUND ROD. USE EXOTHERMIC CONNECTION. (12" MIN. BURY)
9. PROPOSED 2 #12, 1 #12 GND. IN $\frac{3}{4}$" C FOR L-854 RADIO CONTROLLER POWER
10. PROPOSED 2 #6, 1 #8 GND. IN 1" C FOR HELISTOP LIGHTING POWER.



4-DUCT BANK

(NOT TO SCALE)

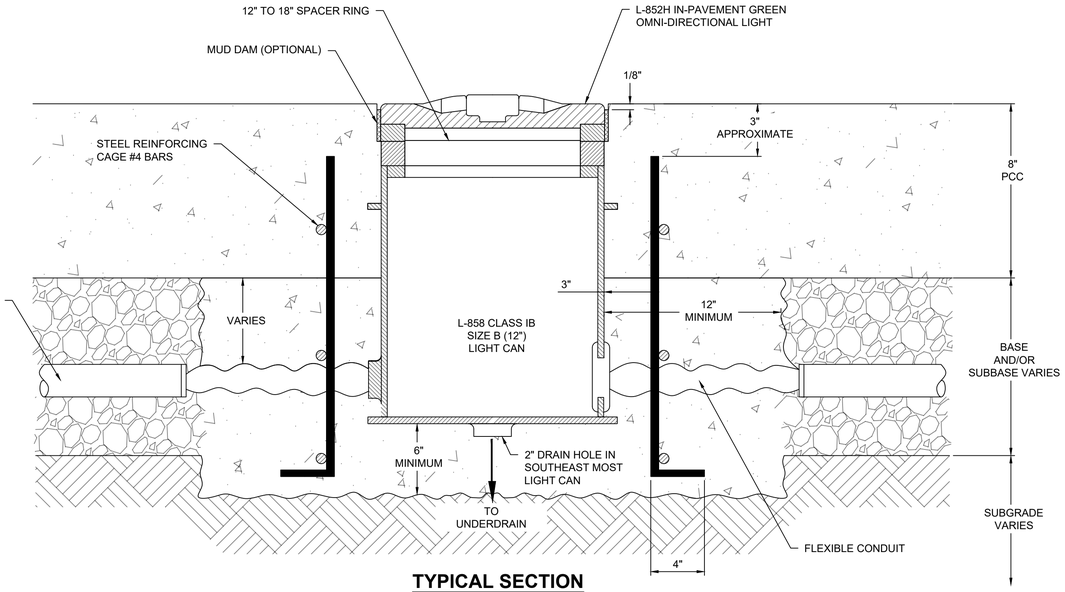


ENCASED DUCT CROSSING UNDER PAVEMENT

"NOT TO SCALE"

DUCT BANK NOTES:

1. DIMENSIONS FOR CONCRETE COVERAGE AND SEPARATION BETWEEN DUCTS ARE MINIMUM.
2. INCLUDE DUCT SPACERS AS MANUFACTURED BY UNDERGROUND DEVICES INC., OR APPROVED EQUAL TO MAINTAIN PROPER SEPARATION OF CONDUITS.
3. DUCTS SHALL EXTEND FOR 3 FEET BEYOND ANY EXISTING OR PROPOSED PAVEMENT EDGE.



TYPICAL SECTION IN-PAVEMENT HELISTOP LIGHT

NOT TO SCALE

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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

ELECTRICAL DETAILS

SHEET NO.
SHEET 24 OF 30

APPROVED **SM**

CHECKED **SM**

DRAWN BY **KWS**

DRAWING NO.
C13.2

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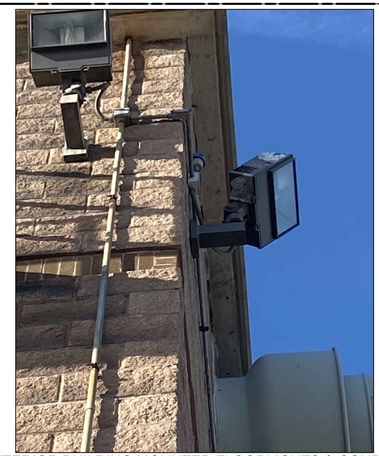
KRISTOFFER SAKAMTERA
DATE PRINTED
3/29/2023 1:16 PM
FILE SAVED
3/29/2023 9:53 AM

1. EXISTING UTILITY TRANSFORMER & AT&T PEDESTAL

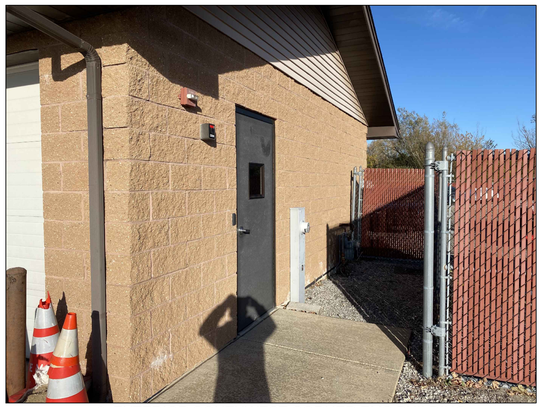
2. EXISTING 4-STORY FIRE TRAINING TOWER

3. FIRE TRAINING TOWER 100-AMP PANEL

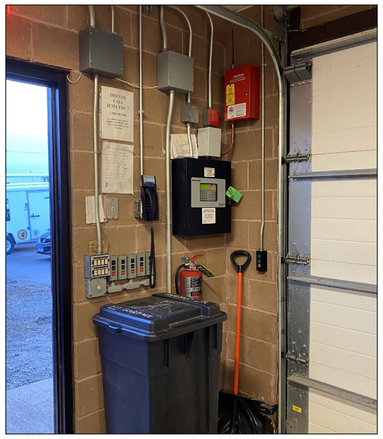


4. EXTERIOR BUILDING MOUNTED FLOODLIGHTS & CONDUIT

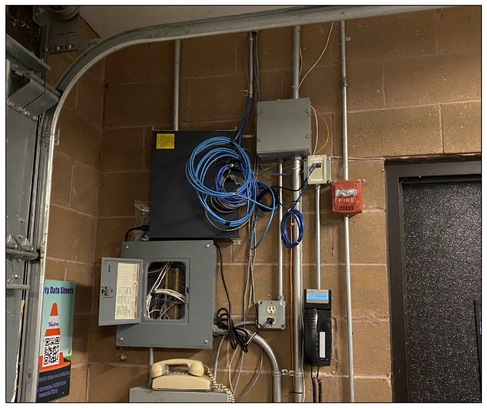
5. EXISTING WALL PACK LIGHT FIXTURE



6. EXTERIOR SOUTHWEST CORNER EMS BUILDING



7. INTERIOR VIEW SW CORNER OF EMS



8. INTERIOR NORTHWEST CORNER EMS BUILDING - FIBER OPTIC TIE-IN

9. INTERIOR OF EMS GARAGE. NOTE PULL-DOWN STAIRS FOR ACCESS TO ATTIC

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IDA No: TF8-5050

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DRAWING TITLE

EXISTING ELECTRICAL SITE PHOTOS - 1

SHEET NO.
SHEET 25 OF 30

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KWS

DRAWING NO.
C13.3

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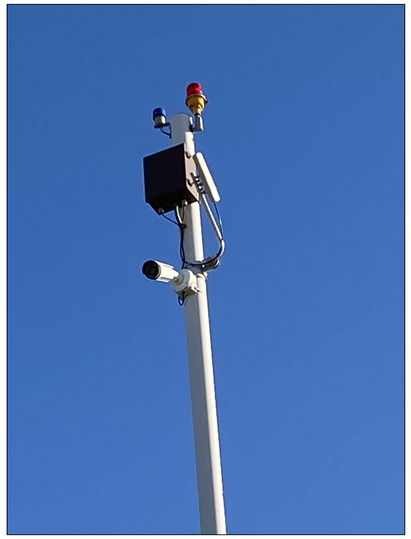
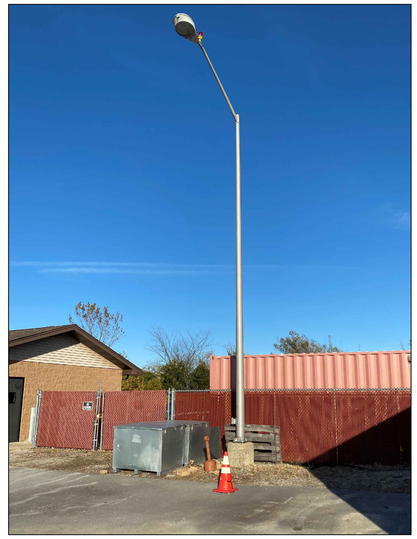
10. EAST SIDE SECURITY CAMERA LIGHT

- LOOSEN EQUIPMENT AND LIGHTING BANDS.
- SLIDE EQUIPMENT AND LIGHTING 11.1' DOWN POLE AND RE-ATTACH/RE-AIM EQUIPMENT AND CAMERA. ADJUST EXISTING CABLING.
- REMOVE TOP 11.1' OF STEEL POLE.
- PAINT TOP OF POLE TO PREVENT FUTURE RUSTING.
- INSTALL CAP ON POLE TOP TO PREVENT WATER ENTRY.
- INSTALL NEW (ADDITIONAL) SECURITY CAMERA AND TRANSMISSION ANTENNA ON POLE. CONNECT TO EXISTING POWER CABLES.



11. EQUIPMENT ON TOP OF EXISTING SECURITY CAMERA POLE



12. EXISTING POLE MOUNTED ROADWAY LUMINAIRE. LUMINARE HEAD TO BE REMOVED AND REPLACED (8 UNITS).

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Village of Tinley Park ILLINOIS

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Issues					

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IDA No: TF8-5050

CONTRACT NO. TI001

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DRAWING TITLE

EXISTING ELECTRICAL SITE PHOTOS - 2

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SHEET 26 OF 30

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CHECKED **SMS**

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DRAWING NO.
C13.4

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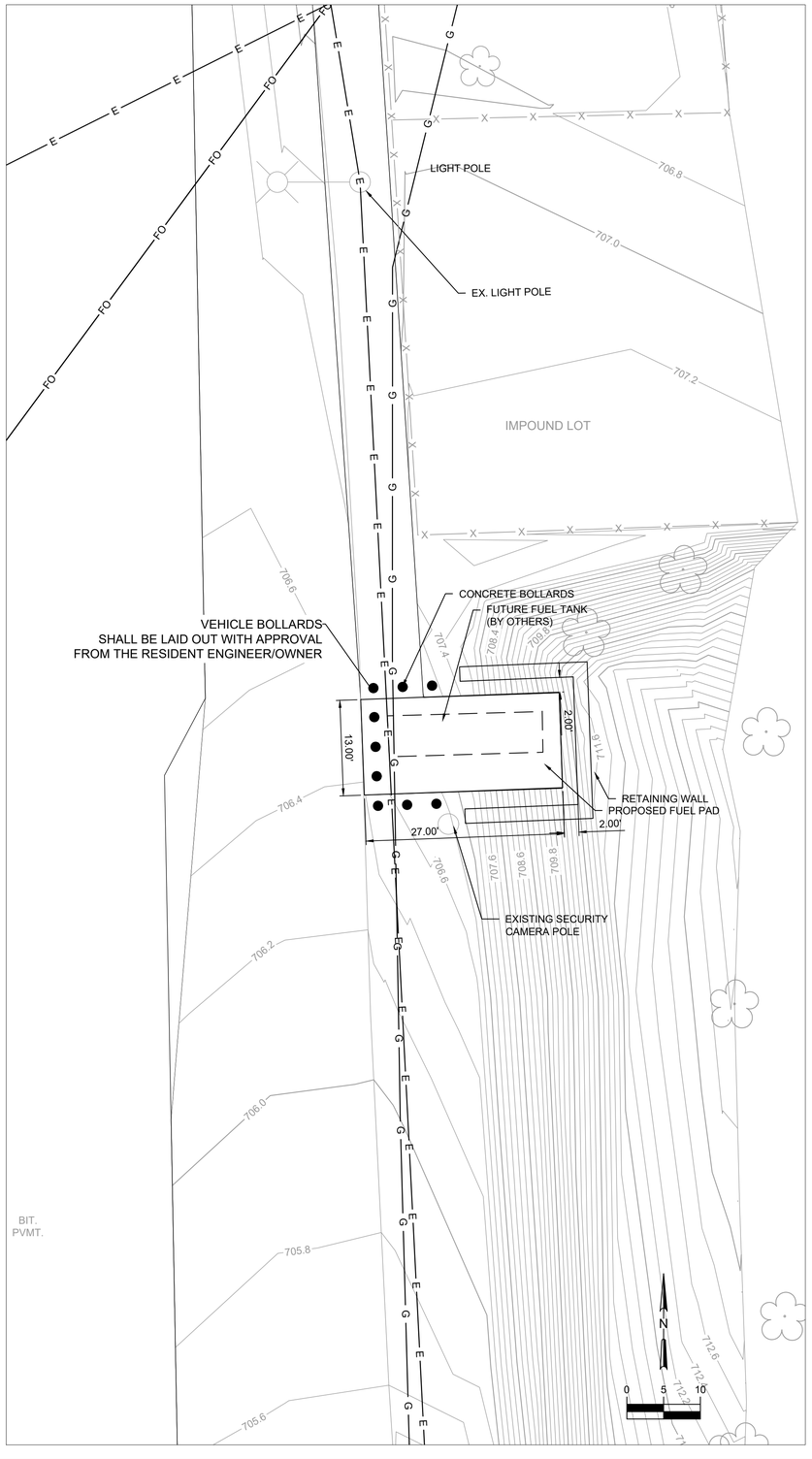
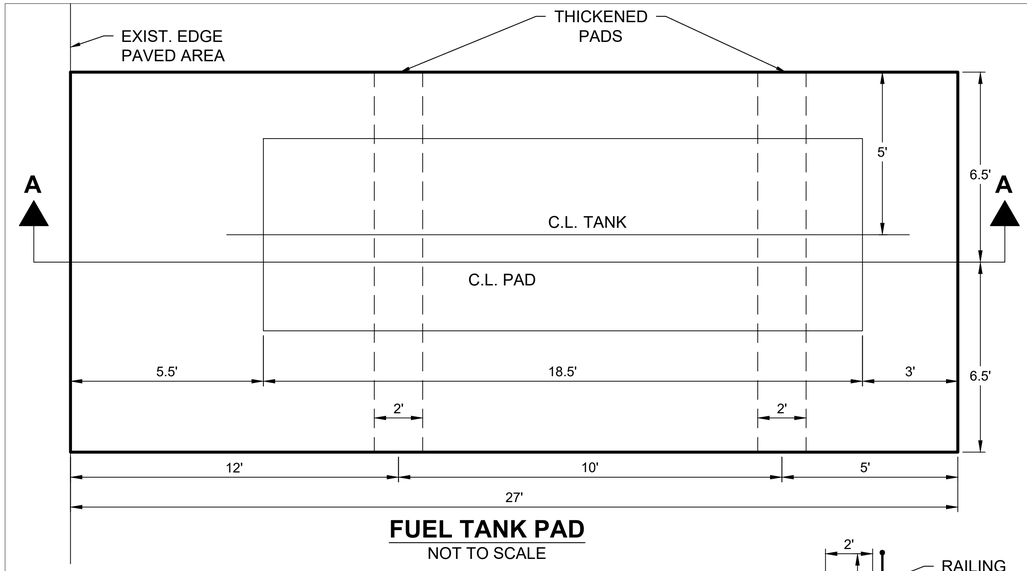
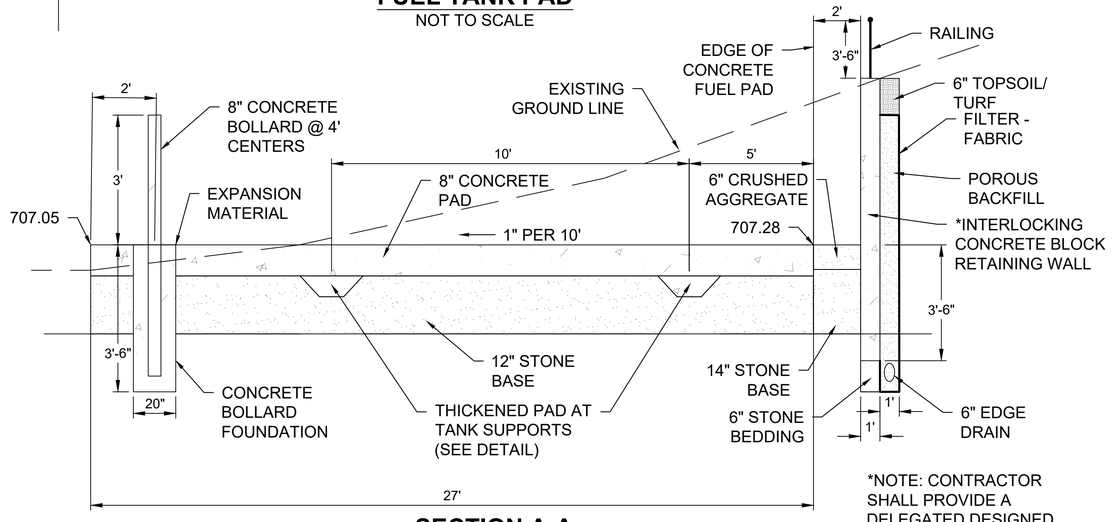


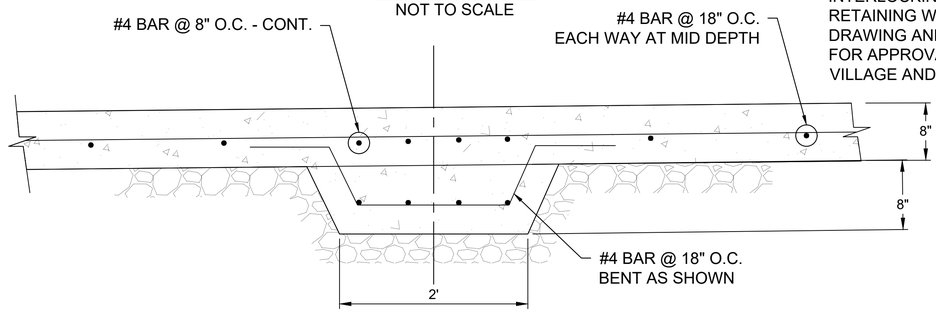


FUEL TANK PAD
NOT TO SCALE



*NOTE: CONTRACTOR SHALL PROVIDE A DELEGATED DESIGNED INTERLOCKING RETAINING WALL SHOP DRAWING AND MATERIAL FOR APPROVAL BY THE VILLAGE AND ENGINEER.

SECTION A-A
NOT TO SCALE



THICKENED PAD FOOTING DETAIL*
NOT TO SCALE
* ADJUST LOCATION FOR ACTUAL TANK

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Village of Tinley Park ILLINOIS

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Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE

SELF-SERVICE FUELING SYSTEM CONCRETE PAD AND DETAILS

SHEET NO.
SHEET 27 OF 30

APPROVED
SMS

CHECKED
SMS

DRAWN BY
KWS

DRAWING NO.
C14.0

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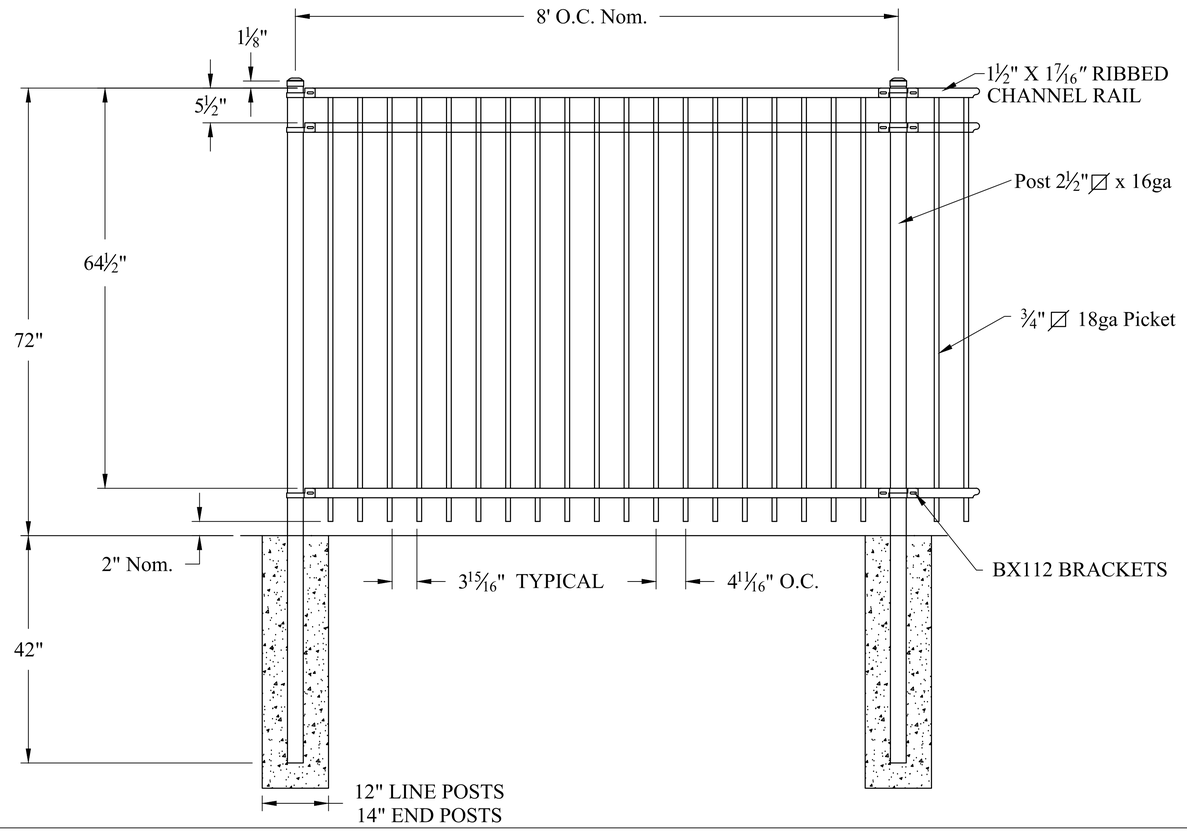

TYPICAL FENCE SECTION DETAIL
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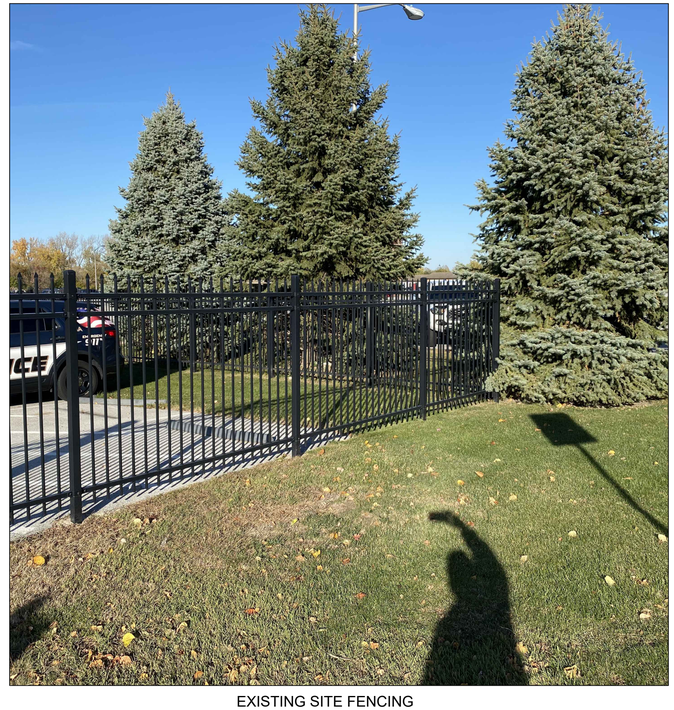

EXISTING SITE FENCING

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-466-1900 F:312-466-1915

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
FENCING AND GATE DETAILS - 1

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SHEET 28 OF 30

APPROVED **SMS**
CHECKED **SMS**
DRAWN BY **KWS**

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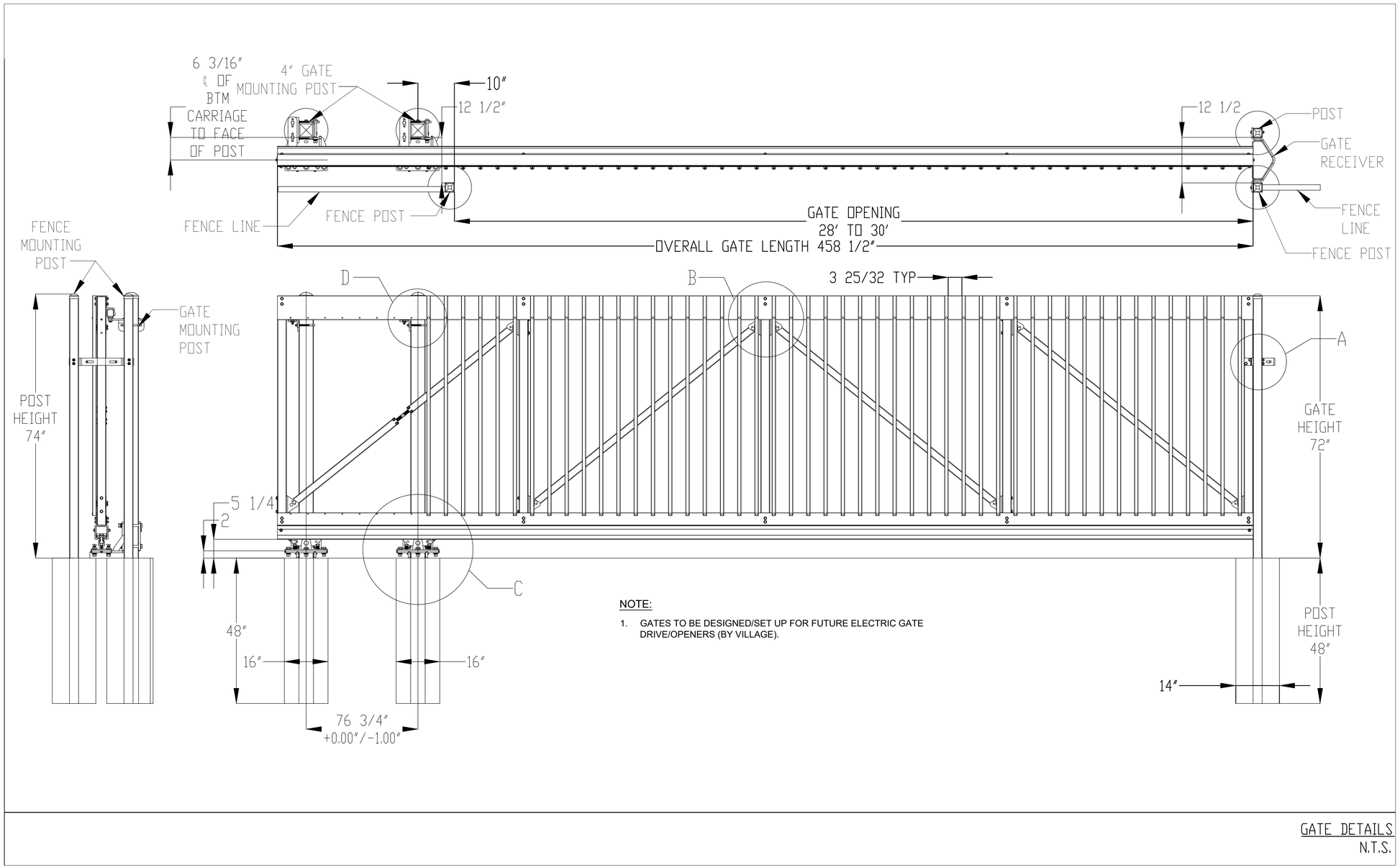


NOTE:

1. GATES TO BE DESIGNED/SET UP FOR FUTURE ELECTRIC GATE DRIVE/OPENERS (BY VILLAGE).

GATE DETAILS
N.T.S.

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-466-3900 F:312-466-3915

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

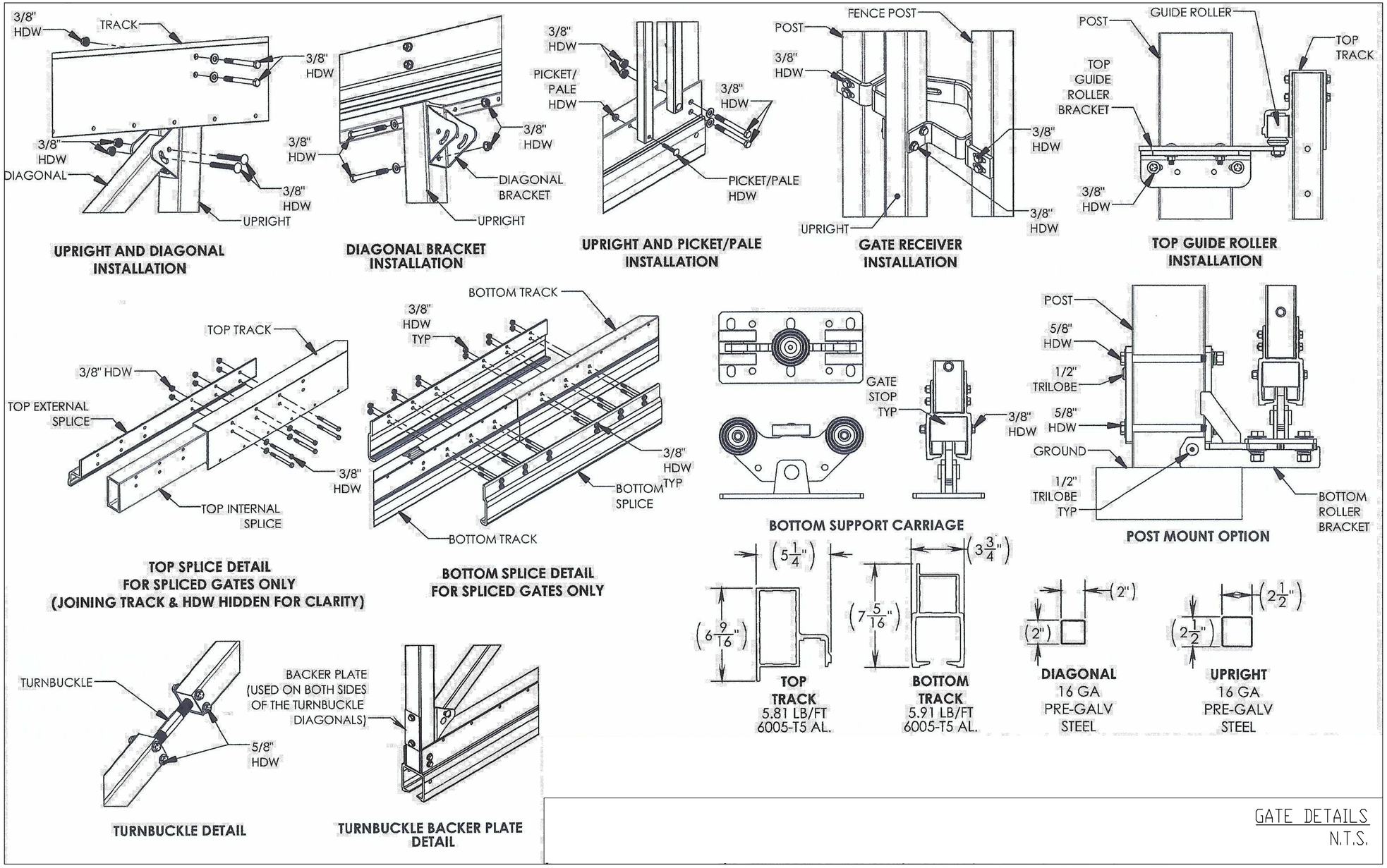
CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
FENCING AND GATE DETAILS - 2

SHEET NO.
SHEET 29 OF 30

APPROVED **SMS**
CHECKED **SMS**
DRAWN BY **KWS**
DRAWING NO. **C15.1**



GATE DETAILS
N.T.S.

Primera
100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P:312-466-3900 F:312-466-3945

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
Issues					

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

DRAWING TITLE
FENCING AND GATE DETAILS - 3

SHEET NO.
SHEET 30 OF 30

APPROVED **SMS**
CHECKED **SMS**
DRAWN BY **KWS**

DRAWING NO.
C15.2

PLOT DEVICE: DRIVER
PLOT STYLE TABLE: ___.ctb
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DATE PRINTED 3/29/2023 1:17 PM
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