Illinois Department of Transportation
Office of Intermodal Project Implementation / Division of Aeronautics
1 Langhorne Bond Drive / Springfield, Illinois 62707-8415

April 18, 2023

SUBJECT: Tinley Park Helistop
Tinley Park, Illinois
Cook County
Illinois Project Number: TF8-5050
Contract No. TI001
Item No. 04A, April 28, 2023, Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

Reason for Addendum:

1) Revise in-pavement light fixture from L-852H to L-852T(L).
2) Clarify the callout and location for Concrete Encased 4-Way, 2" PVC Duct.

To All Plan Holders:
Changes have been made to four (4) Construction Plan Sheets, and one (1) Special Provision Page. Further, one (1) pay item description (AR801024) has been changed by IDOT in the Schedule of Prices in the Proposal.

Plan Changes:
Replace the following original drawings with the following drawing sheets in Addendum A:

1) Drawing C1.0 Sheet Index and Summary of Quantities
2) Drawing C13.0 Proposed Electrical Site Plan
3) Drawing C13.1 Proposed Electrical Notes
4) Drawing C13.2 Electrical Details

Special Provisions Changes:
Replace the following original special provision with the following page in Addendum A:
Page 79 – Item 801014 / 801024 In-Pavement Medium Intensity Light.

Schedule of Prices Changes:
Revise the pay item description AR801024 from "L825H In-Pavement Medium Intensity Light" to "In-Pavement Medium Intensity Light".

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Questions on this addendum may be directed Kris Salvatera, P.E., of Primera Engineers, Ltd., at 312.242.6362.

INDEX OF SHEETS

SHEET NO.	DRAWING NO.	TITLE
1	C0.0	COVER SHEET
2	C1.0	SUMMARY OF QUANTITIES / INDEX TO SHEETS / GENERAL NOTES
3	C2.0	SITE PLAN AND PROJECT CONTROL
4	C3.0	SITE SAFETY AND SEQUENCE OF CONSTRUCTION PLAN
5	C3.1	CONSTRUCTION SAFETY NOTES AND DETAILS
6	C4.0	SOIL & EROSION CONTROL PLAN
7	C4.1	EROSION & SEDIMENT CONTROL NOTES
8	C4.2	SOIL & EROSION CONTROL DETAILS
9	C5.0	EXISTING CONDITIONS
10	C6.0	PROPOSED SITEWORK DEMOLITION
11	C7.0	TYPICAL PAVEMENT SECTIONS AND DETAILS
12	C8.0	PROPOSED GEOMETRY & LAYOUT PLAN
13	C8.1	PROPOSED STAKING PLAN - 1
14	C8.2	PROPOSED STAKING PLAN - 2
15	C9.0	PROPOSED GRADING PLAN
16	C10.0	PROPOSED JOINTING PLAN
17	C10.1	PAVEMENT AND JOINTING DETAILS
18	C11.0	PROPOSED DRAINAGE / EDGE DRAIN LAYOUT
19	C11.1	DRAINAGE DETAILS
20	C12.0	PROPOSED PAVEMENT MARKING LAYOUT AND DETAILS - 1
21	C12.1	PROPOSED PAVEMENT MARKING LAYOUT AND DETAILS - 2
22	C13.0	PROPOSED ELECTRICAL SITE PLAN
23	C13.1	PROPOSED ELECTRICAL NOTES
24	C13.2	ELECTRICAL DETAILS
25	C13.3	EXISTING ELECTRICAL SITE PHOTOS - 1
26	C13.4	EXISTING ELECTRICAL SITE PHOTOS - 2
27	C14.0	SELF-SERVICE FUELING SYSTEM CONCRETE PAD AND DETAILS
28	C15.0	FENCING AND GATE DETAILS - 1
29	C15.1	FENCING AND GATE DETAILS - 2
30	C15.2	FENCING AND GATE DETAILS - 3

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

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
1	ADDENDUM A	KS	RH	SM	4/18/23

Issues

HELISTOP AIRCRAFT PAVEMENT IMPROVEMENTS

IDA No: TF8-5050

CONTRACT NO. TI001

100% FINAL - 03/29/2023

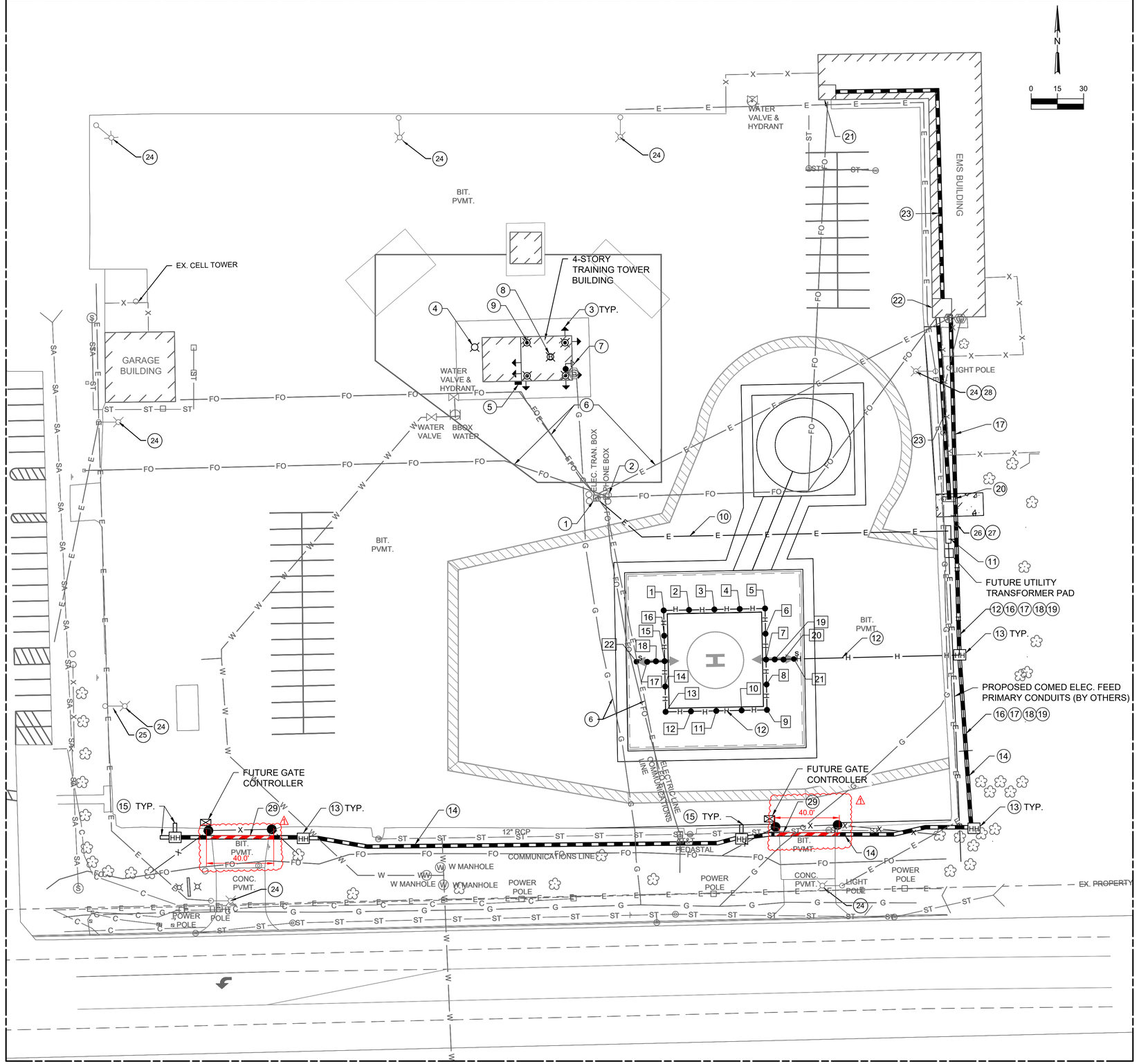
DRAWING TITLE
INDEX OF SHEETS, SUMMARY OF QUANTITIES, AND GENERAL NOTES

SHEET NO.

APPROVED SM
CHECKED SM
DRAWN BY KWS

DRAWING NO. C1.0

FILE SAVED 4/18/2023 2:27 PM
DATE PRINTED 4/18/2023 2:45 PM
PRINTED BY KRISTOFFER SALVATERA



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
- PROPOSED 4-WAY, CONCRETE ENCASED DUCT

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.

FIXTURE NOTES:

1. FIXTURE SHALL BE FAA L-852T(L), GREEN COLOR, 12-INCH FIXTURE FOR L-868 LIGHT BASE, OMIDIRECTIONAL LIGHT PATTERN, WITH ARCTIC OPTION, WITH L-823 CONNECTORS

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

* AT CENTER OF LIGHT CAN

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
A	ADDENDUM A	KS	RH	SM	4/18/23

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**

PLOT STYLE TABLE: ctb
FILENAME/LOCATION: P:\2022\22023079.00\DRAWINGS\CURRENT DRAWING FILES\CAD SHEETS\22023079.00-TF8-5050-C13.0-PROPOSED ELECTRICAL SITE PLANING.dwg
PLOTTED BY: KRISTOFFER SALVATERA
DATE PLOTTED: 4/19/2023 10:01 AM
FILE SAVED: 4/19/2023 9:58 AM

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 - DIRECT BURY. ⚠

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.~~ CONCRETE ENCASED, 4-WAY, 2" PVC DUCT. CONCRETE ENCASED DUCT SHALL EXTEND A MINIMUM OF 3' BEYOND THE EDGE OF PAVEMENT. ITEM SHALL BE PAID FOR UNDER PAY ITEM AR110504 - 4-WAY CONCRETE ENCASED DUCT. ⚠

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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FILENAME/LOCATION: P:\2022\2022379.00\DRAWINGS\CURRENT DRAWING FILES\CAD SHEETS\2022379.00-TF8-5050-C13.0-PROPOSED ELECTRICAL SITE PLANLING
PRINTED BY: KRISTOFER SALVATERA
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Primera
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Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
⚠	ADDENDUM A	KS	RH	SM	4/18/23

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

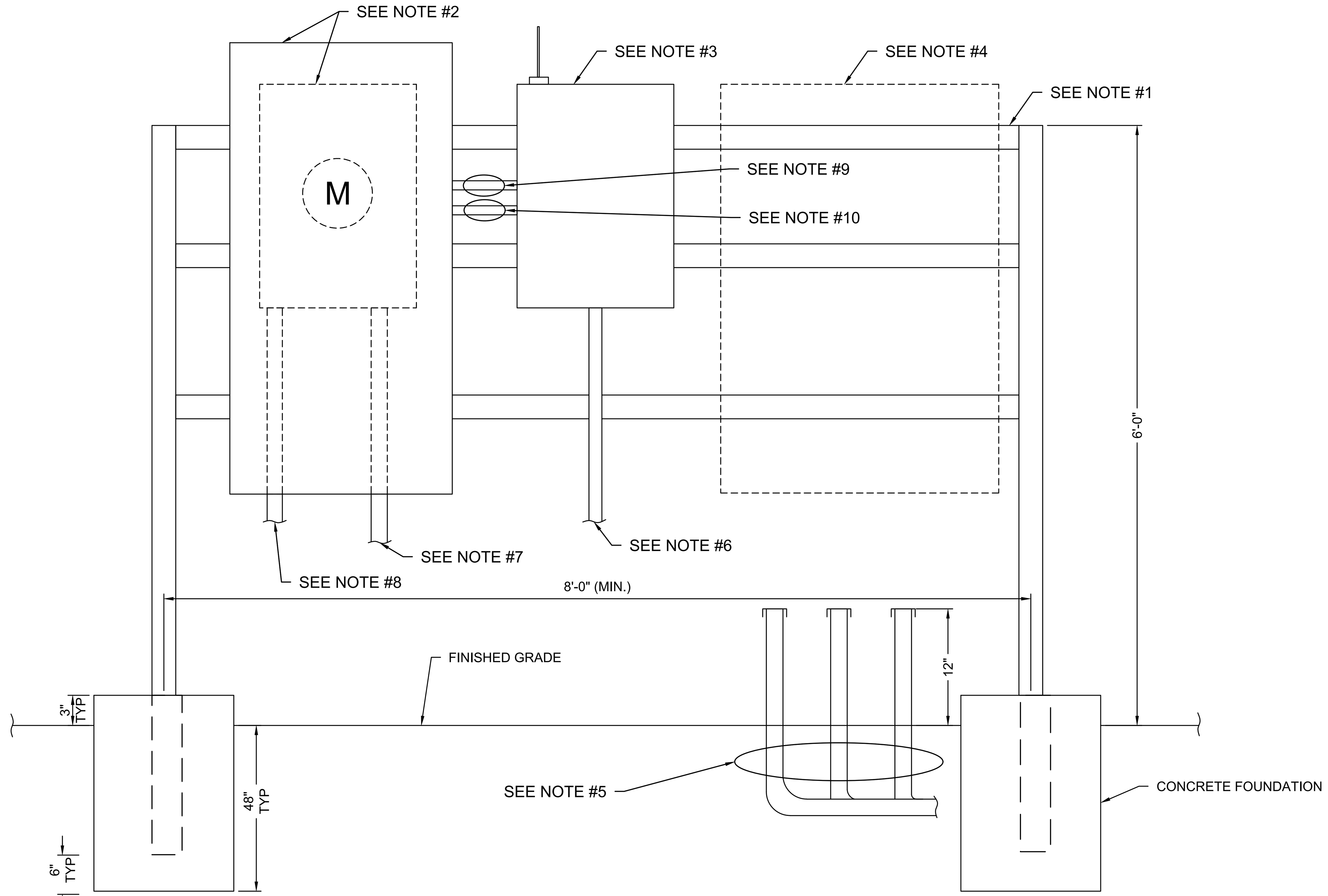
DRAWING TITLE

PROPOSED ELECTRICAL NOTES

SHEET NO.
SHEET 23 OF 30

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

DRAWING NO.
C13.1

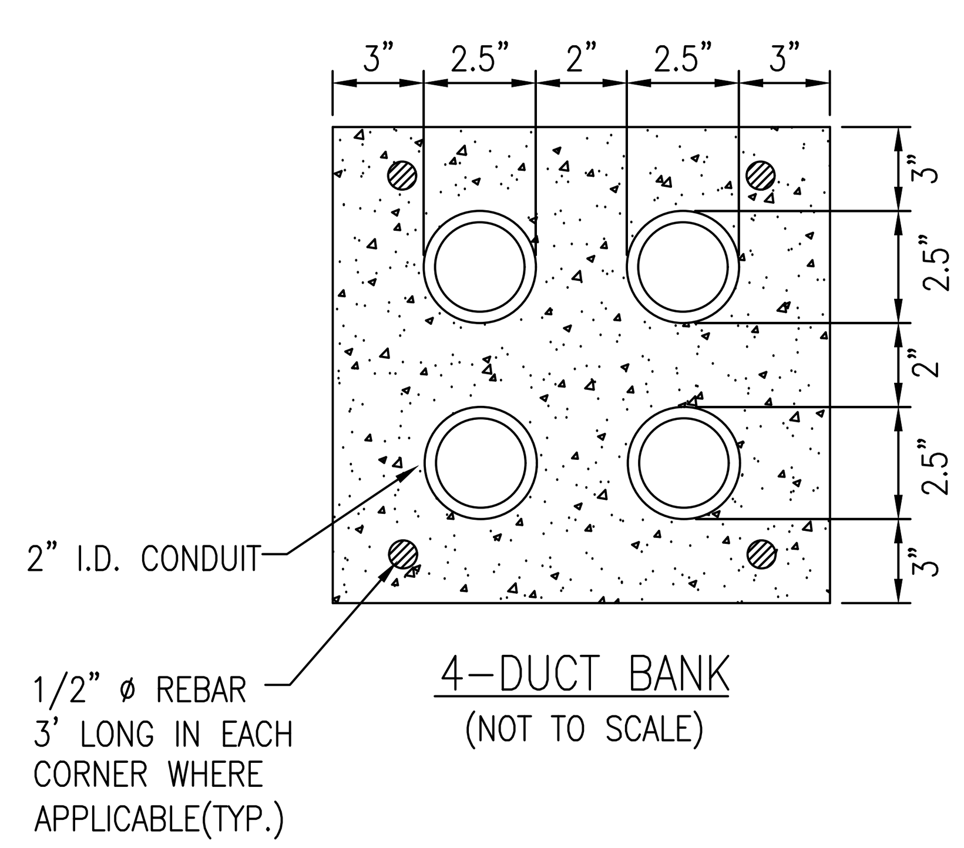


PROPOSED POWER DISTRIBUTION AND CONTROLS RACK

NOT TO SCALE

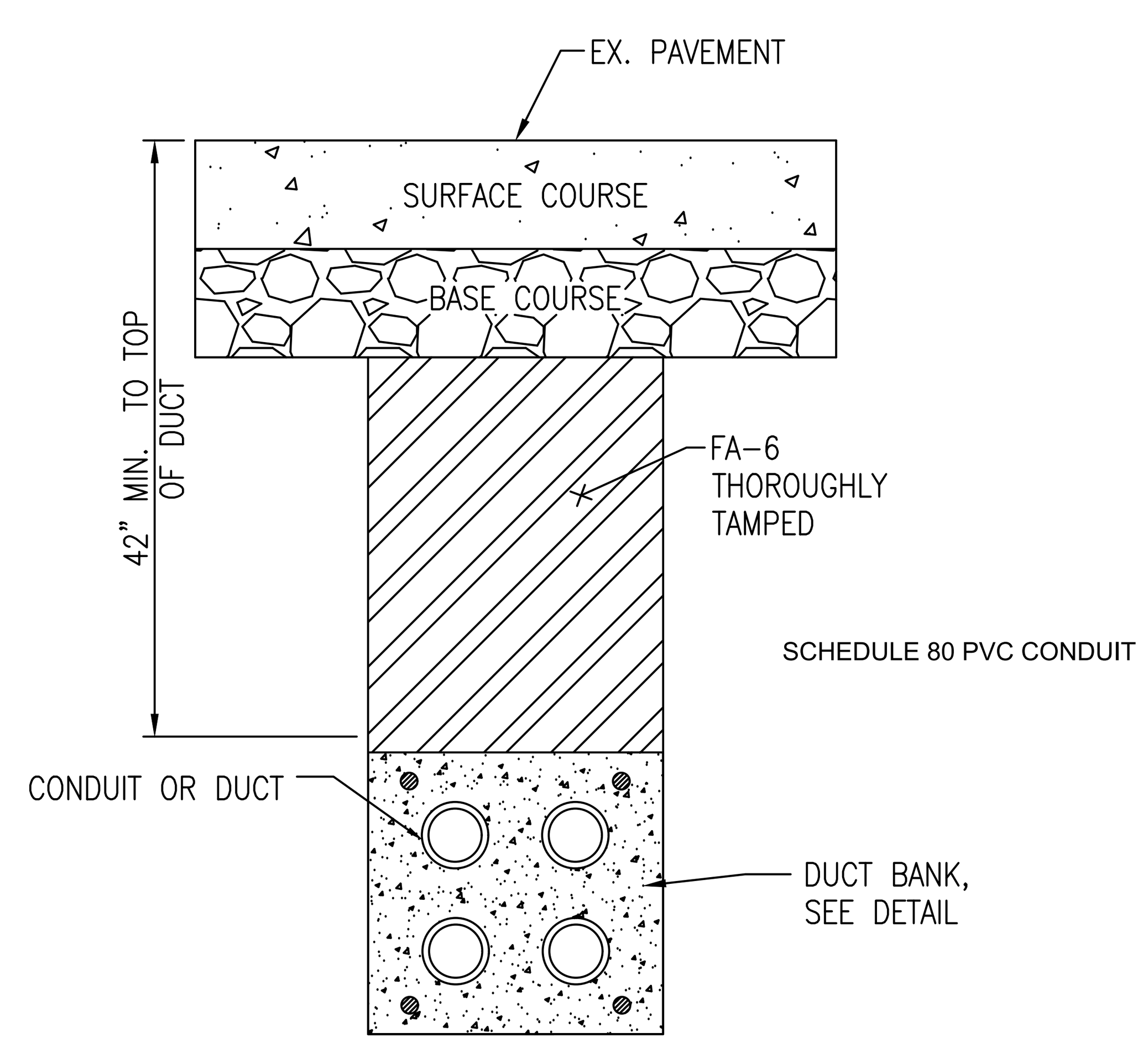
NOTES

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)

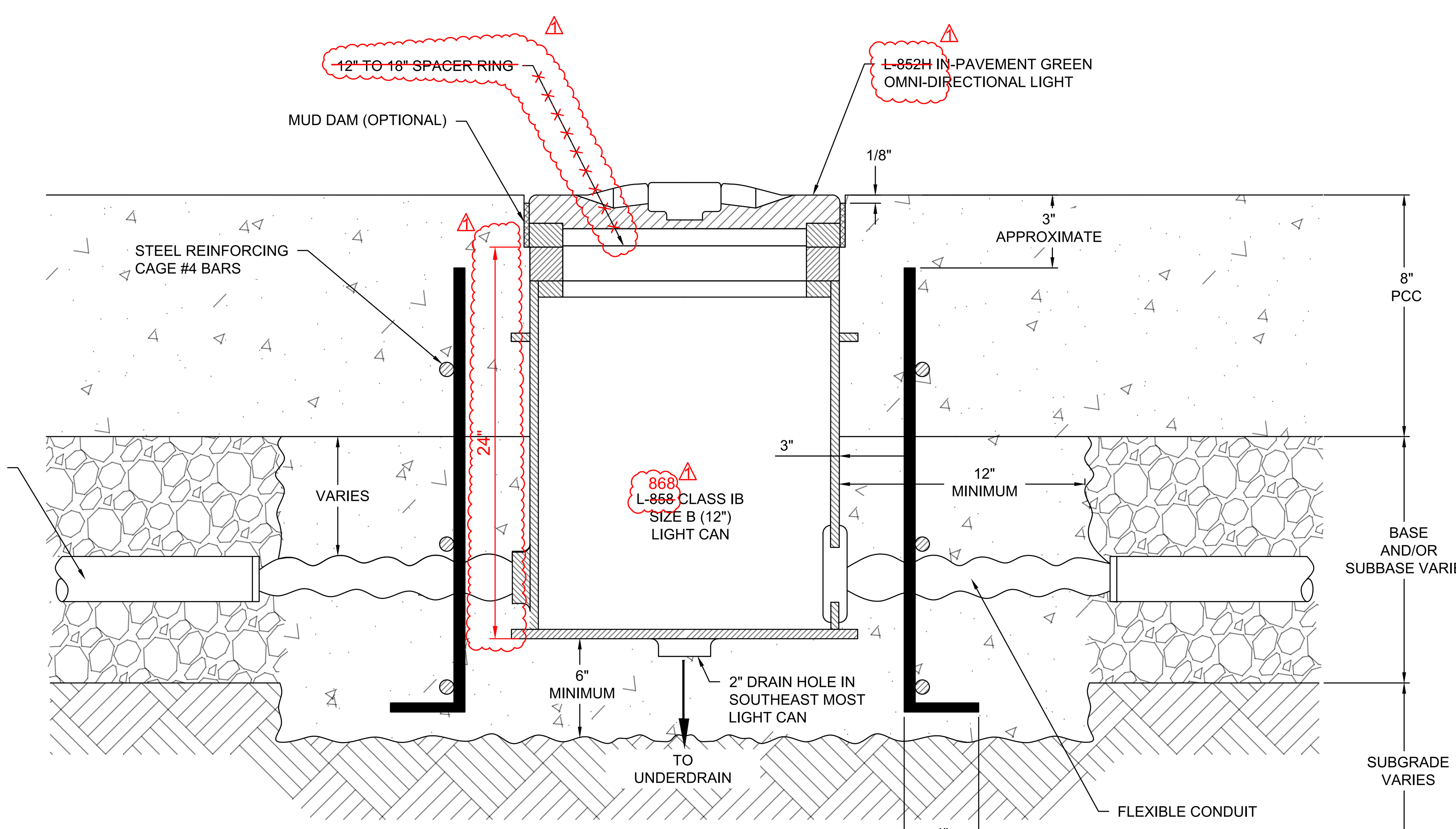


ENCASED DUCT CROSSING UNDER PAVEMENT

"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

Primera

Village of Tinley Park ILLINOIS

No.	Description	By	Chk.	App.	Date
1	ADDENDUM A	KS	RH	SM	4/18/23

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**

ITEM 801014 / 801024

~~L-852H~~ IN-PAVEMENT MEDIUM INTENSITY LIGHT

DESCRIPTION

125-1.1 This item shall consist of heliport in-pavement lighting systems furnished and installed in accordance with this specification, the referenced specification, and the latest revision of the applicable FAA Advisory Circulars. The systems shall be installed at the location and in accordance with the dimensions, design, and details shown on the plans. This item shall include furnishing all equipment, materials, services, and incidentals necessary to place the systems in operation as completed units to the satisfaction of the Engineer

EQUIPMENT AND MATERIALS

125-2.1 GENERAL. Add the following:

D. The in-pavement lights shall be ~~FAA L-852H In-Pavement LED Medium Intensity Heliport Perimeter Lights.~~ FAA L-852T(L), green color, 12-inch diameter fixture for L-868 light base, omni-directional light pattern, with arctic option, with L-823 connectors.

125-2.8 LIGHT CANS. Add the following:

Light cans for the new base mounted in-pavement heliport perimeter lights shall be ~~FAA L-858, Class B, Size B (12").~~ FAA L-868 Class 1B, Size B (12-inch).

125-2.9 LIGHT LENS. Add the following:

Lens for the heliport perimeter lights shall be green.

METHOD OF MEASUREMENT

125-4.1 The quantity of lights to be paid for under this item shall be the number of each type installed as completed units in place, ready for operation, and accepted by the Engineer. In-Pavement Light Base (Empty) shall be paid by the number of in-pavement light cans installed.

BASIS OF PAYMENT

125-5.1 Payment will be made at the contract unit price for each completed light installed in place by the Contractor and accepted by the Engineer. Payment will be made at the contract unit price for empty in-pavement light base cans installed and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR801014 – IN-PAVEMENT LIGHT BASE (EMPTY) – per each
Item AR801024 – ~~L825H~~ IN-PAVEMENT MEDIUM INTENSITY LIGHT – per each