

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	1
		ILLINOIS	CONTRACT NO. 62W06	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE CITY OF CHICAGO

ADT (2022): 1,050
FUNCTIONAL CLASS: LOCAL ROAD
SPEED LIMIT: 30 MPH

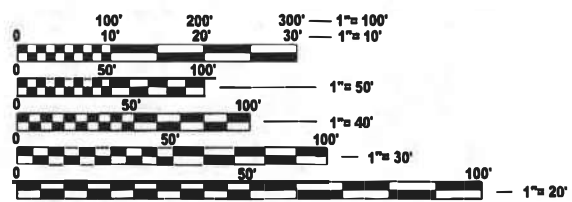
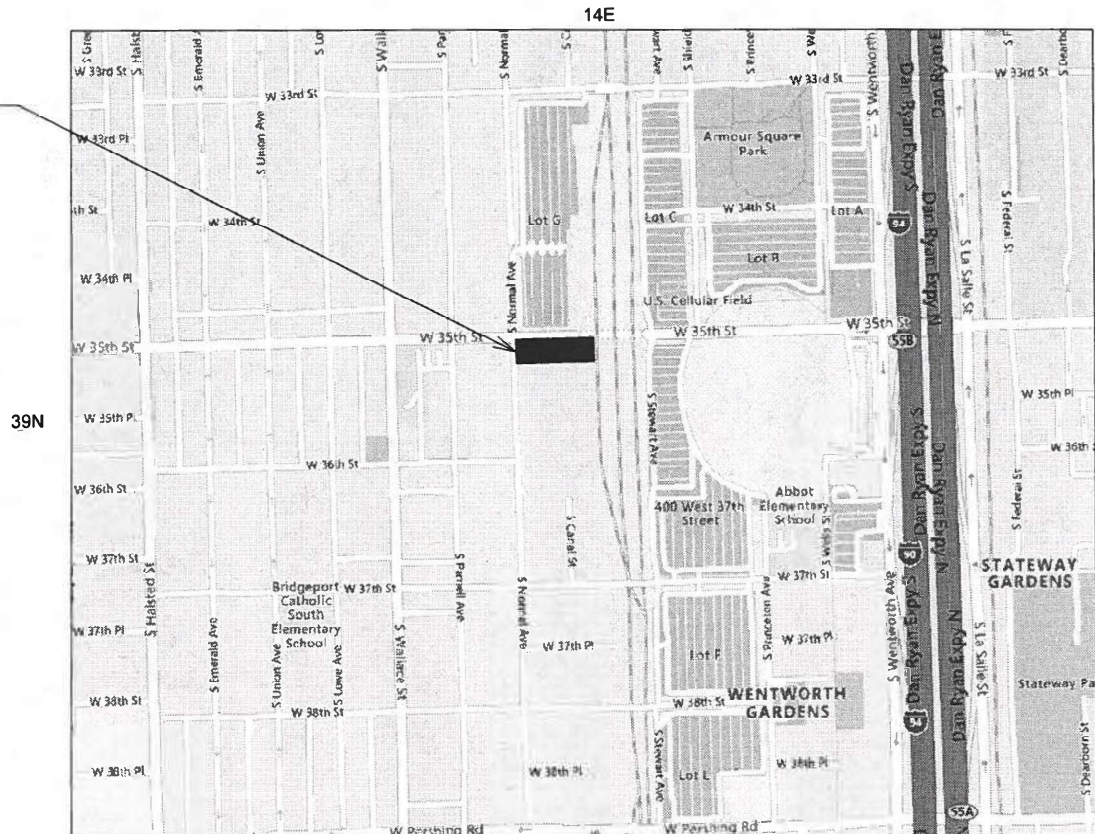
PROPOSED HIGHWAY PLANS

MS 2236A: NORMAL AVE EMERGENCY TRAFFIC PATROL (ETP) YARD (3501 S NORMAL AVE, CHICAGO) SECTION: 2023 ETP YARD PARKING DRAINAGE, PARKING IMPROVEMENT COOK COUNTY

C-91-101-24



ETP YARD PARKING LOT
3501 S NORMAL AVE,
CHICAGO



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705-4255
PROJECT MANAGER: VESELIN VELICHKOV

CONTRACT NO. 62W06

NET AND GROSS LENGTH: 0.01 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 12, 2024

[Signature]
REGIONAL ENGINEER

March 22, 2024
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5	EXISTING SITE CONDITIONS AND PROPOSED REMOVAL
6	PROPOSED SITE PLAN
7	PROPOSED DRAINAGE PLAN
8	PROPOSED LIGHTING RELOCATION PLAN
9	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
10	LIGHT POLE FOUNDATION 40' TO 47' 1/2" M.H. 15" BOLT CIRCLE (BE-301)
11	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
12	CRACK & JOINT SEALING DETAIL (PD-11)

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
420111-04	PCC PAVEMENT ROUNDOUTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

1. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
3. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
4. THE CONTACT FOR THIS YARD IS THE ETP MANAGER JAMES MCKAY. HE CAN BE REACHED AT JAMES.MCKAY@ILLINOIS.GOV
5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO THE ETP YARD AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATE WITH THE RE AND ETP MANAGER TO ENSURE THE YARD REMAINS OPERATIONAL
6. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. CLASS B PATCHES TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND THE ETP MANAGER.
9. CLASS B PAVEMENT PATCHING WHICH REQUIRES FRAMES AND GRATES TO BE ADJUSTED SHALL BE CONSTRUCTED UTILIZING "CAST IN PLACE" ALTERNATE ACCORDING TO STATE HIGHWAY STANDARD 420111 FOR "PCC PAVEMENT ROUNDOUTS".
10. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

MODEL: GenNotesSh01 [Sheet]
 FILE NAME: c:\pwworking\connor.mullane@illinois.gov\d0925477\108624-shi-gemnote.dgn

USER NAME = connor.mullane	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16888833 / in.	CHECKED -	REVISED -
PLOT DATE = 3/13/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ETP YARD - 3501 S NORMAL AVE
INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

SCALE: SHEET OF 1 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W06	

SUMMARY OF QUANTITIES				CONSTR. CODE
Code No.	Item	Unit	Total Quantity	0005 100% STATE
20200100	EARTH EXCAVATION	CU YD	382	382
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	35	35
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	2212	2212
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4978	4978
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	498	498
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	372	372
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	186	186
42001300	PROTECTIVE COAT	SQ YD	350	350
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	1432	1432
44000169	HOT-MIX ASPHALT SURFACE REMOVAL, 5"	SQ YD	781	781
44200050	WELDED WIRE REINFORCEMENT	SQ YD	298	298
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	52	52
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	53	53
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	245	245
44213200	SAW CUTS	FOOT	1135	1135
44213204	TIE BARS 3/4"	EACH	75	75
45200100	JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)	FOOT	868	868
45200300	JOINT OR CRACK FILLING	POUND	250	250
60250200	CATCH BASINS TO BE ADJUSTED	EACH	4	4
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	385	385

SUMMARY OF QUANTITIES				CONSTR. CODE
Code No.	Item	Unit	Total Quantity	0005 100% STATE
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
67100100	MOBILIZATION	L SUM	1	1
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	762	762
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	65	65
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	801	801
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	124	124
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	281	281
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA	FOOT	100	100
* 81400200	HEAVY-DUTY HANDHOLE	EACH	1	1
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2400	2400
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	15	15
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	1	1
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1	1
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	400	400
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	400	400
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	6
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

MODEL: SOQ_1 [Sheet]
 FILE NAME: c:\p\work\wtd\concor.mullane@illinois.gov\0925477\ID:108624-eh-SOQ.dgn

USER NAME = connor,mullane	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/14/2024	CHECKED -	REVISED -
	DATE -	REVISED -

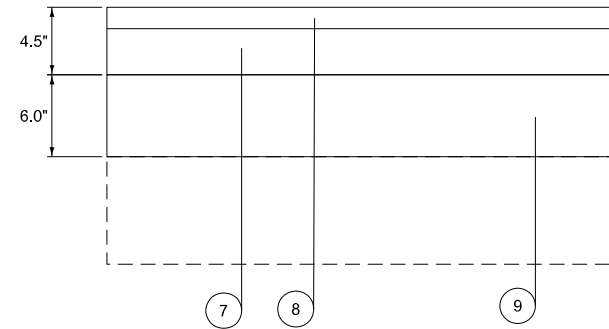
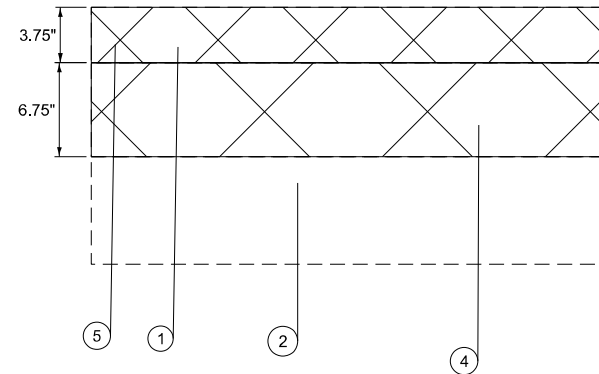
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ETP YARD - 3501 S NORMAL AVE SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF 1 SHEETS	STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	3
CONTRACT NO. 62W06				
ILLINOIS FED. AID PROJECT				

ETP YARD - 3501 S NORMAL AVE

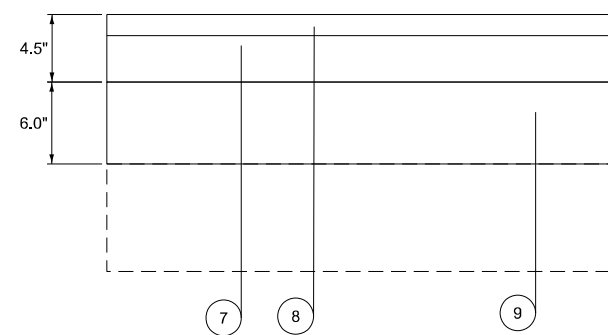
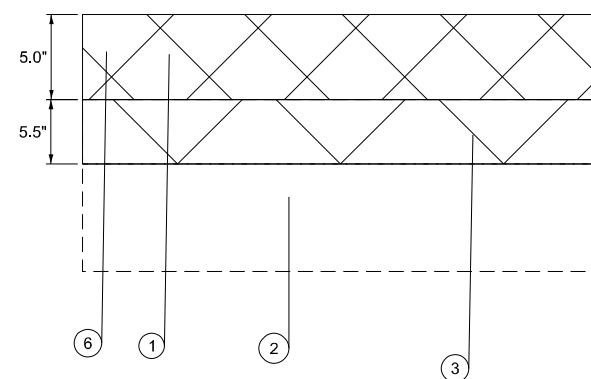
AREA 1 - LARGER GENERAL PARKING LOT



LEGEND

- ① EXISTING HMA PAVEMENT
- ② EXISTING SUBGRADE
- ③ PROPOSED SUBGRADE REMOVAL 5.5" (TO BE PAID AS EARTH EXCAVATION)
- ④ PROPOSED SUBGRADE REMOVAL 6.75" (TO BE PAID AS EARTH EXCAVATION)
- ⑤ PROPOSED HMA SURFACE REMOVAL 3.75"
- ⑥ PROPOSED HMA SURFACE REMOVAL 5"
- ⑦ PROPOSED HMA BINDER COURSE, IL 19.0, N70, 3.0"
- ⑧ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"
- ⑨ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 6"

AREA 2 - SMALLER STORAGE PARKING LOT



HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndesign	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING		
HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"	4% @ 70 GYR	QC/QA
HMA BINDER COURSE, IL 19.0, N70, 3.0"	4% @ 70 GYR	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQYD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

MODEL: TYPICAL SECTION (Sheet)
FILE NAME: c:\p\work\evad\concor.mullane@illinois.gov\0925477D\08624-eh-typical.dgn

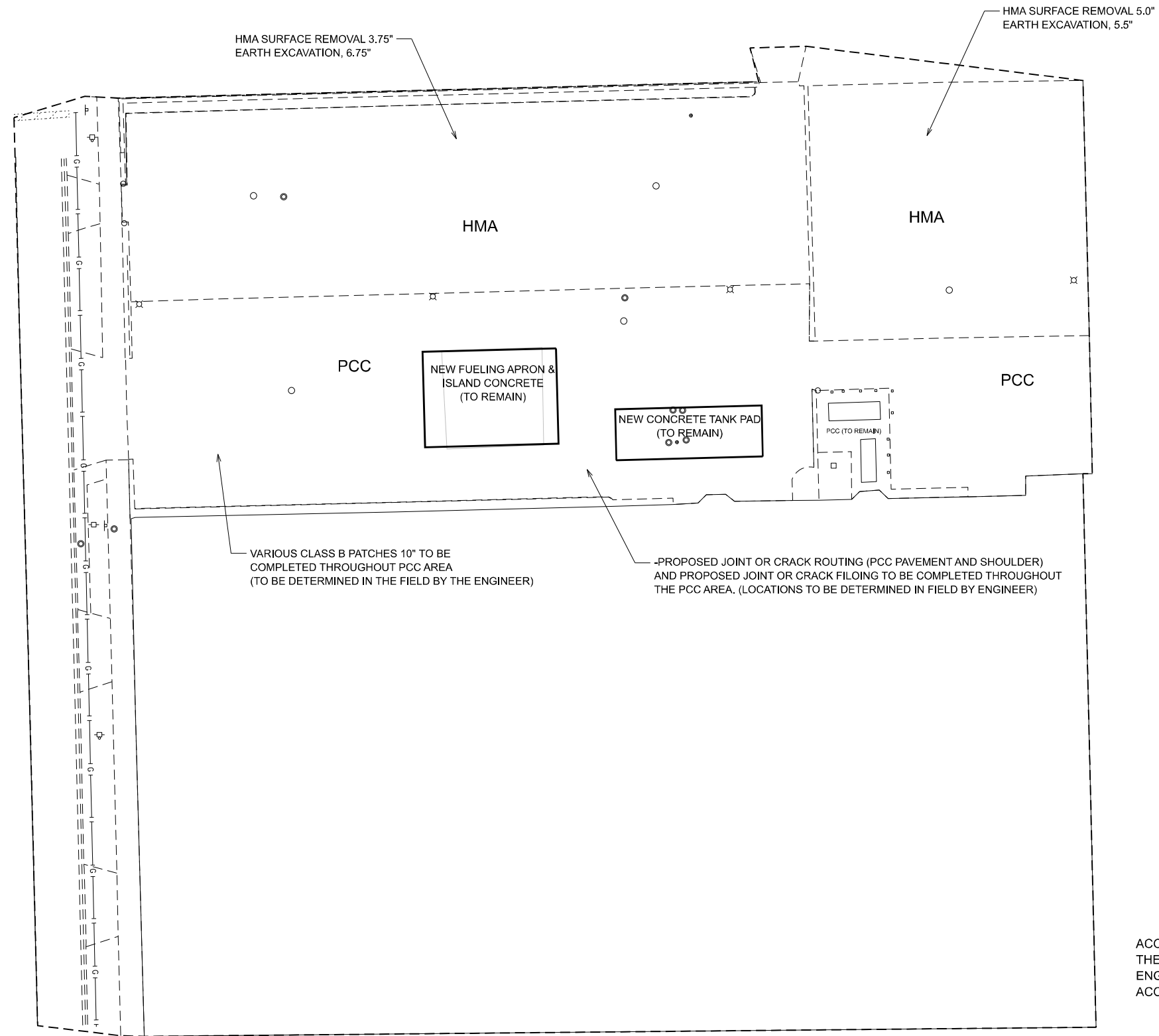
USER NAME = connor.mullane	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/12/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ETP YARD - 3501 S NORMAL AVE
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: 1"=50' SHEET OF 1 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W06	



NOTE

ACCESS TO THE YARD MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR IS TO PLAN WITH THE RESIDENT ENGINEER AND ETP YARD MANAGER TO ENSURE PROPER ACCESS IS BEING MAINTAINED.

MODEL: EXISTING SITE (Sheet)
FILE NAME: c:\p\work\1210\concor.mullane@illinois.gov\d0925477\108624-eh-planEx.dgn

USER NAME =	connor.mullane	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
PLOT DATE =	3/13/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

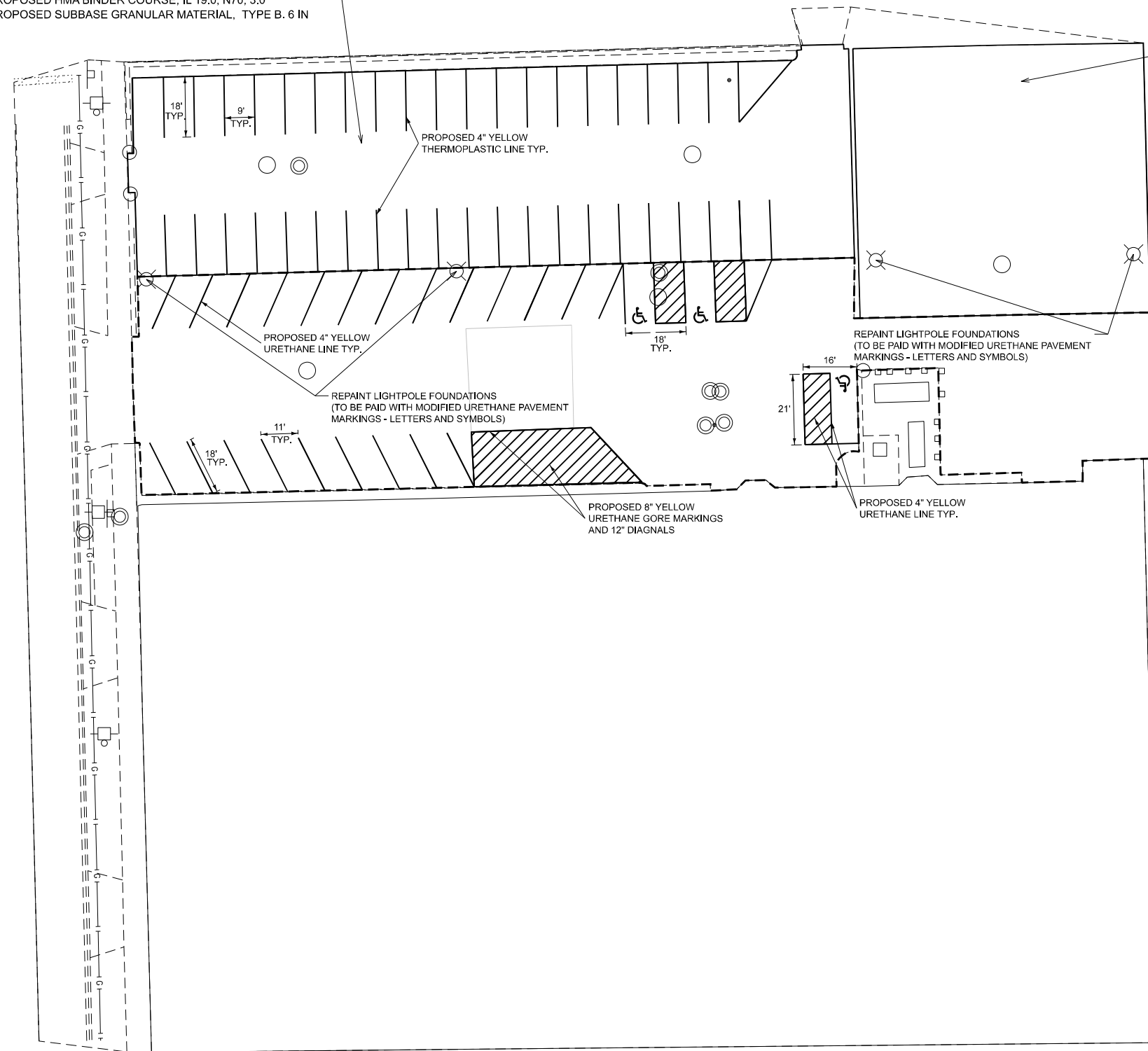
**ETP YARD - 3501 S NORMAL AVE
EXISTING SITE CONDITION AND PROPOSED REMOVAL**

SCALE: SHEET OF 8 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	5
CONTRACT NO. 62W06				
ILLINOIS FED. AID PROJECT				

PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"
 PROPOSED HMA BINDER COURSE, IL 19.0, N70, 3.0"
 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 6 IN

PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1.5"
 PROPOSED HMA BINDER COURSE, IL 19.0, N70, 3.0"
 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 6 IN



NOTE:
 CLASS B PATCHES WILL BE DONE AROUND ALL
 STRUCTURE ADJUSTMENTS/ RECONSTRUCTIONS
 THAT TAKE PLACE IN PCC AREAS.

MODEL: PROPOSED PLAN SHEET (Sheet)
 FILE NAME: c:\p\work\evr\ct\connor.mullane@illinois.gov\0925477D\08624-eh-planPr.dgn

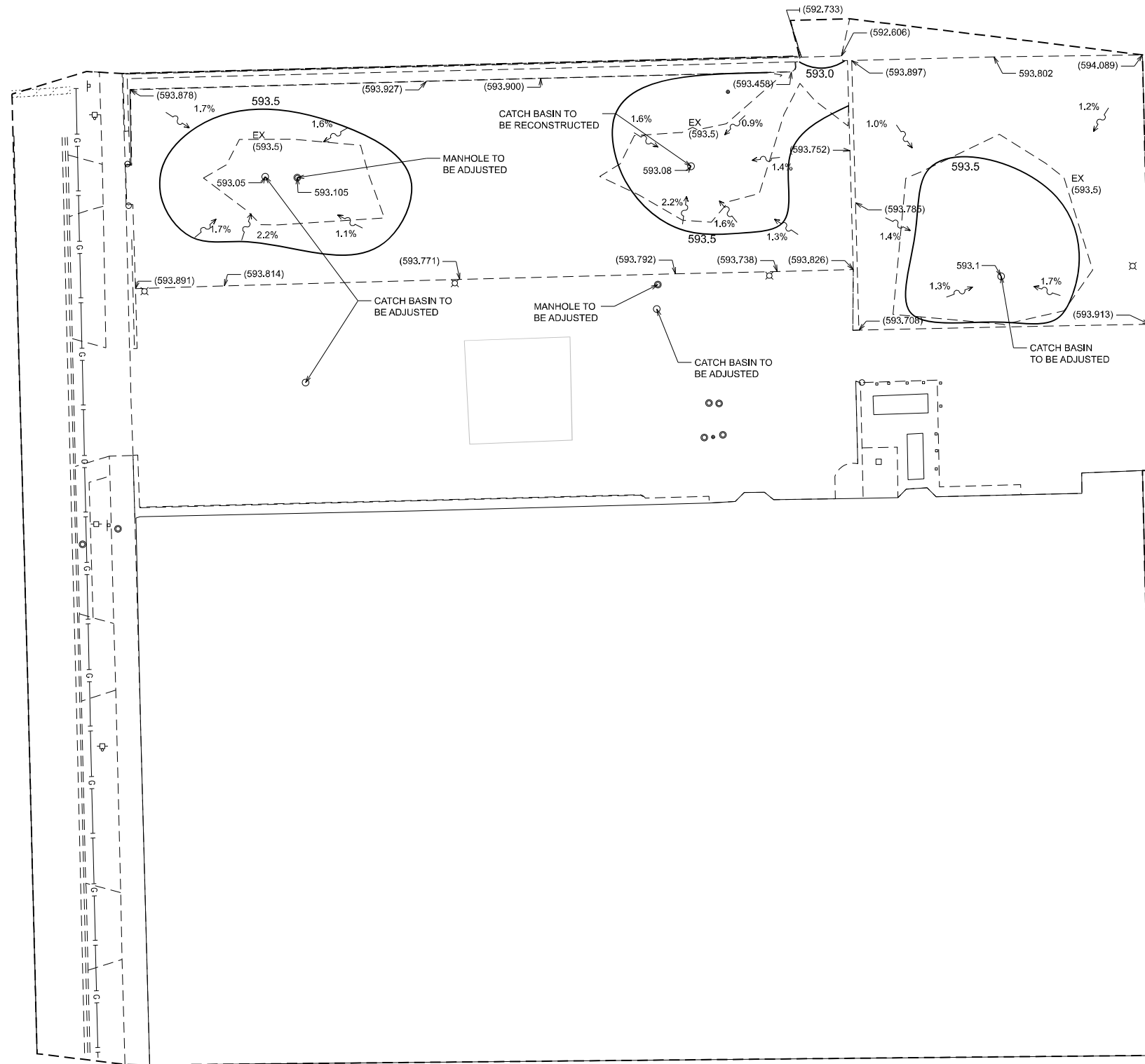
USER NAME = connor.mullane	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 3/12/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ETP YARD - 3501 S NORMAL AVE
 PROPOSED SITE PLAN**

SCALE: SHEET OF 7 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	6
			CONTRACT NO. 62W06	
		ILLINOIS	FED. AID PROJECT	



MODEL: drainage (Sheet)
 FILE NAME: c:\p\work\wis\connor.mullane@illinois.gov\d0925477\108624-eh-drain.dgn

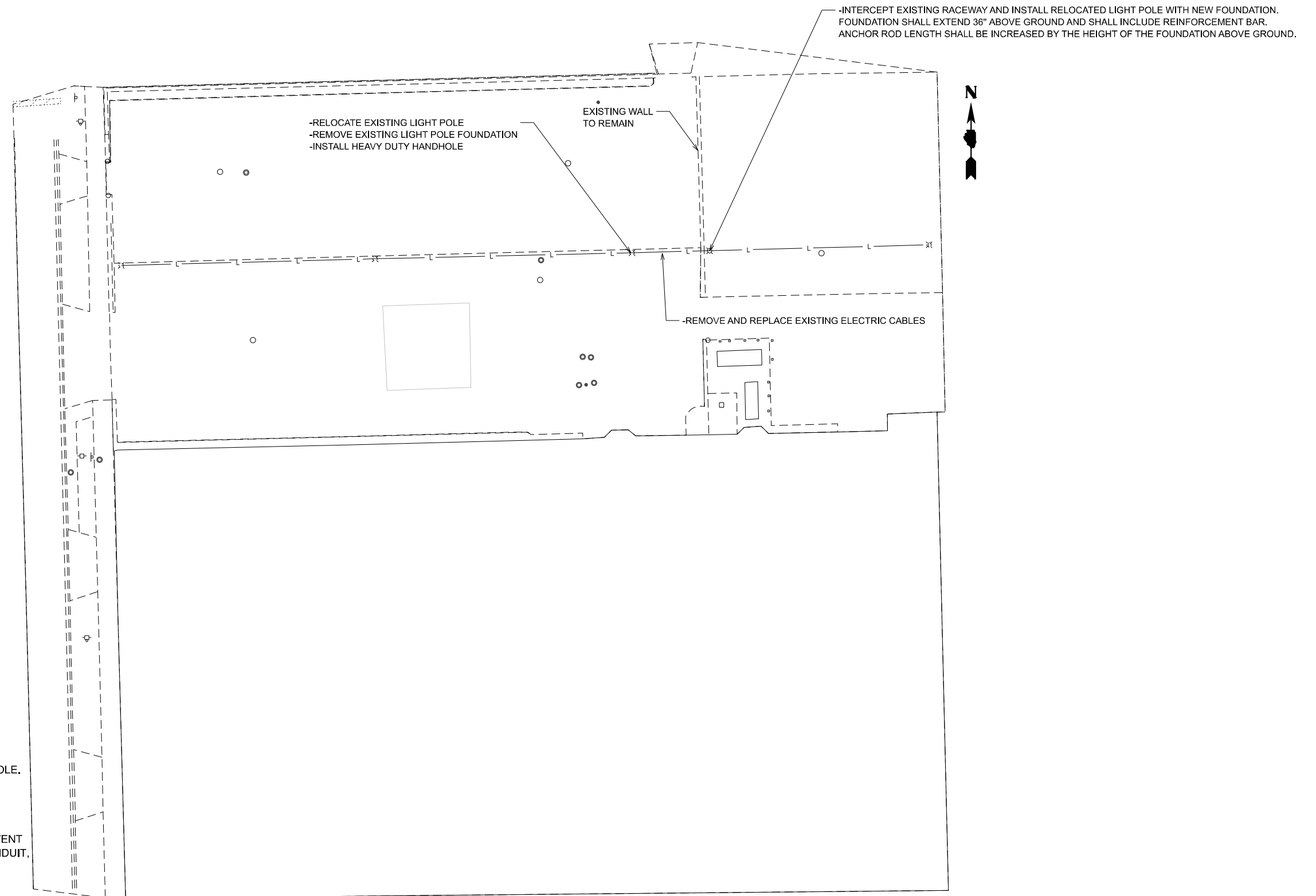
USER NAME = connor.mullane	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 3/13/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ETP YARD - 3501 S NORMAL AVE
DRAINAGE PLAN

SCALE: SHEET OF 8 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	7
CONTRACT NO. 62W06				
ILLINOIS FED. AID PROJECT				



NOTES

1. PRIOR TO START OF THIS WORK, THE CONTRACTOR SHALL VERIFY CIRCUITING BEING AFFECTED.
2. RELOCATION OF THET LIGHT POLE SHALL INCLUDE NEW POLE WIRE FROM THE POLE BASE TO THE LUMINAIRE.
3. THE CONTRACTOR SHALL ISOLATE AND MAINTAIN THE AFFECTED CIRCUITS.
4. THE CONTRACTOR SHALL INSTALL A GROUND WIRE THROUGHOUT THE ENTIRE LENGTH OF THE AFFECTED CIRCUITS TO THE PANELBOARD.
5. PROVIDE 10 FT OF SLACK FOR EACH NEW ELECTRIC CABLE IN HANDHOLE.
6. INTERCEPTING THE EXISTING RACEWAY AT THE RELOCATED POLE LOCATION SHALL BE INCLUDED IN THE COST OF THE POLE RELOCATION
7. A NOMINAL QUANTITY FOR RACEWAYS HAS BEEN PROVIDED IN THE EVENT IT IS NEEDED. IF NEEDED, PAY FOR WITH 81028210 - UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.

MODEL: Traffic Signal Plan (Sheet)
 FILE NAME: c:\p\work\wtd\connor.mullane@illinois.gov\10925477\108624-sh1-TS.dgn

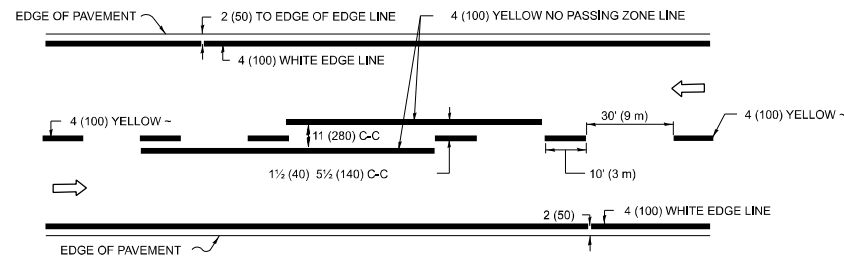
USER NAME = connor.mullane	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/13/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

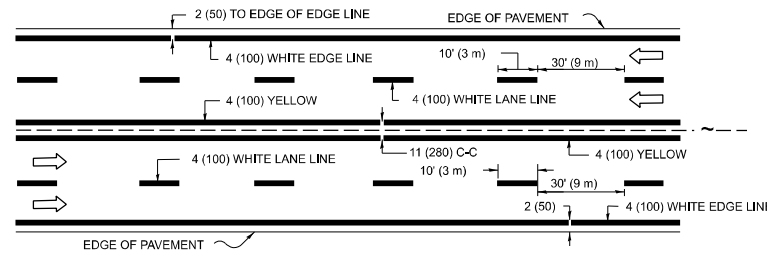
ETP YARD - 3501 S NORMAL AVE
PROPOSED LIGHTING PLANS

SCALE: SHEET OF 8 SHEETS STA. TO STA.

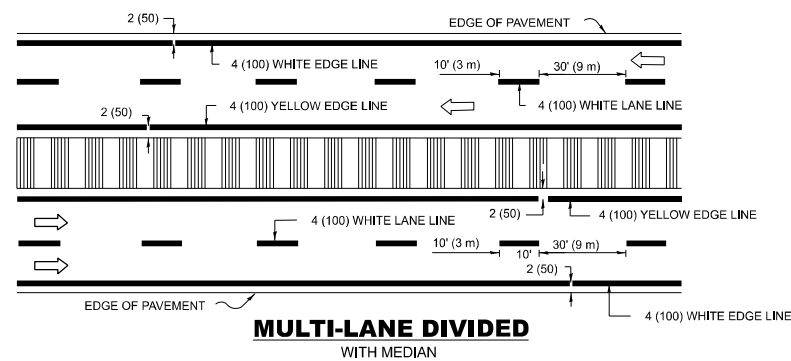
M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	8
CONTRACT NO. 62W06			ILLINOIS FED. AID PROJECT	



2-LANE ROADWAY

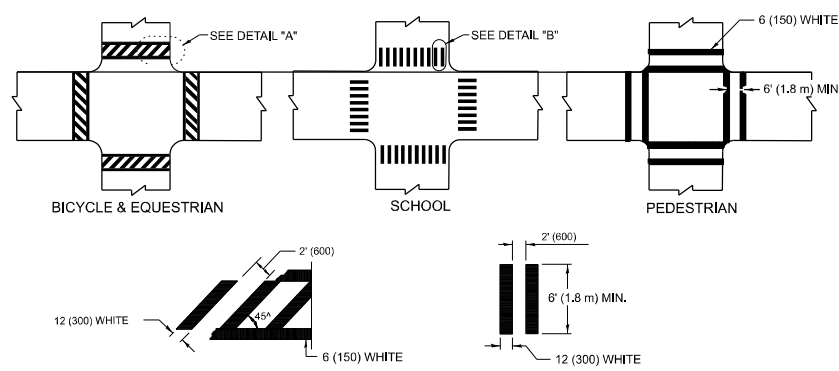


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

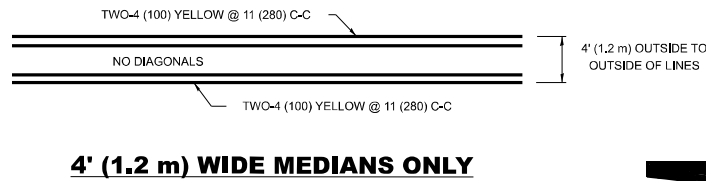
TYPICAL LANE AND EDGE LINE MARKING



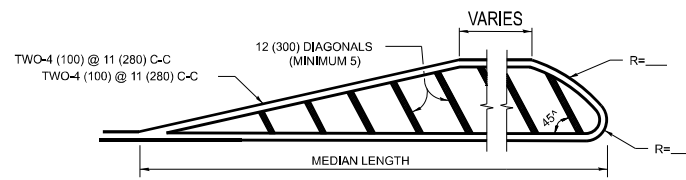
DETAIL "A" DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

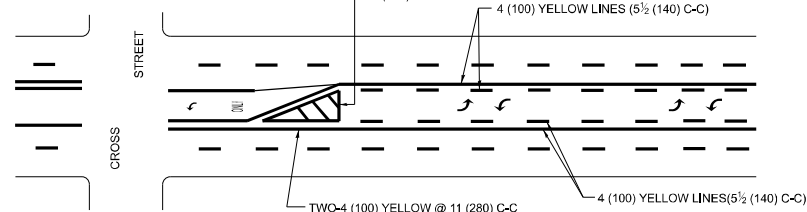


4' (1.2 m) WIDE MEDIANS ONLY



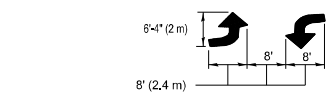
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



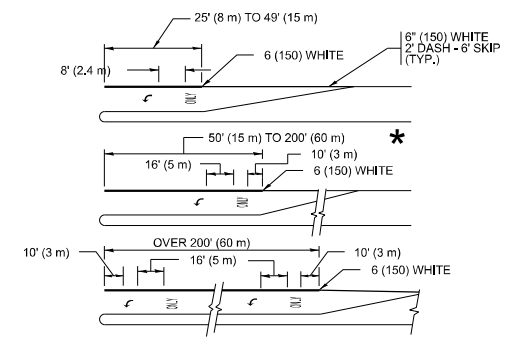
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

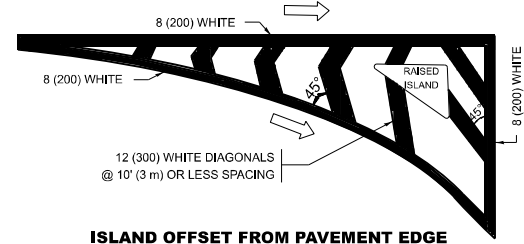


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

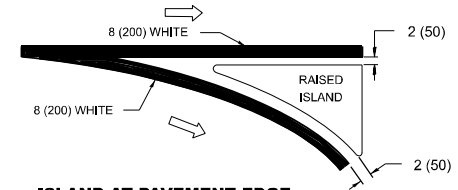
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

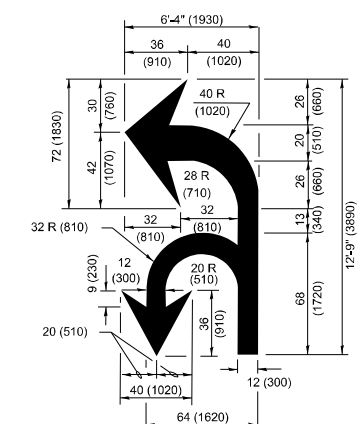


ISLAND OFFSET FROM PAVEMENT EDGE

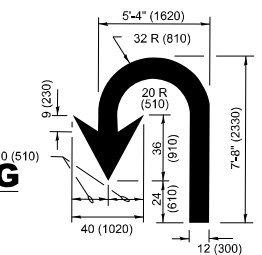


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE-FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 15 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: lct13 (Sheet)
FILE NAME: c:\p\work\wv\dotconnor.mullane@illinois.gov\0925477D\108624-shp-Dist13.ctb

USER NAME = connor.mullane	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
DRAWN -	REVISOR - C. JUCIUS 07-01-13	
PLOT SCALE = 0.16666633 / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/13/2024	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

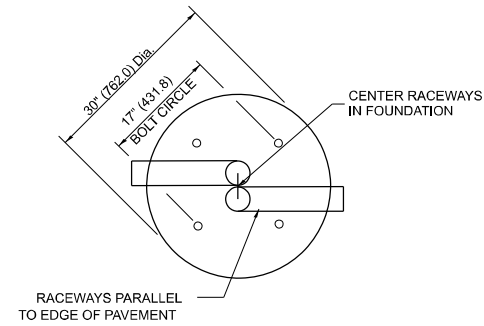
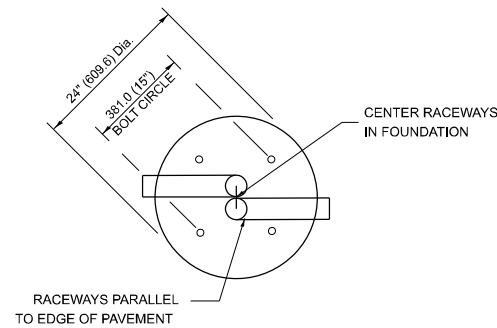
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
-------------	---------------------	--------------

M.S. RTE. 2236A	SECTION 2023 ETP YARD PARKING	COUNTY COOK	TOTAL SHEETS 12	SHEET NO. 9
TC-13		CONTRACT NO. 62W06		
ILLINOIS FED. AID PROJECT				

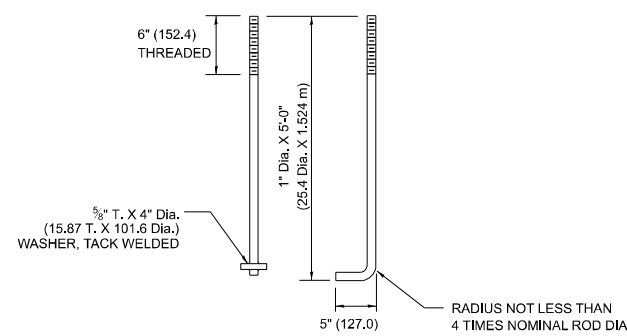
LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.99 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND Ø = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND Ø = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND Ø = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

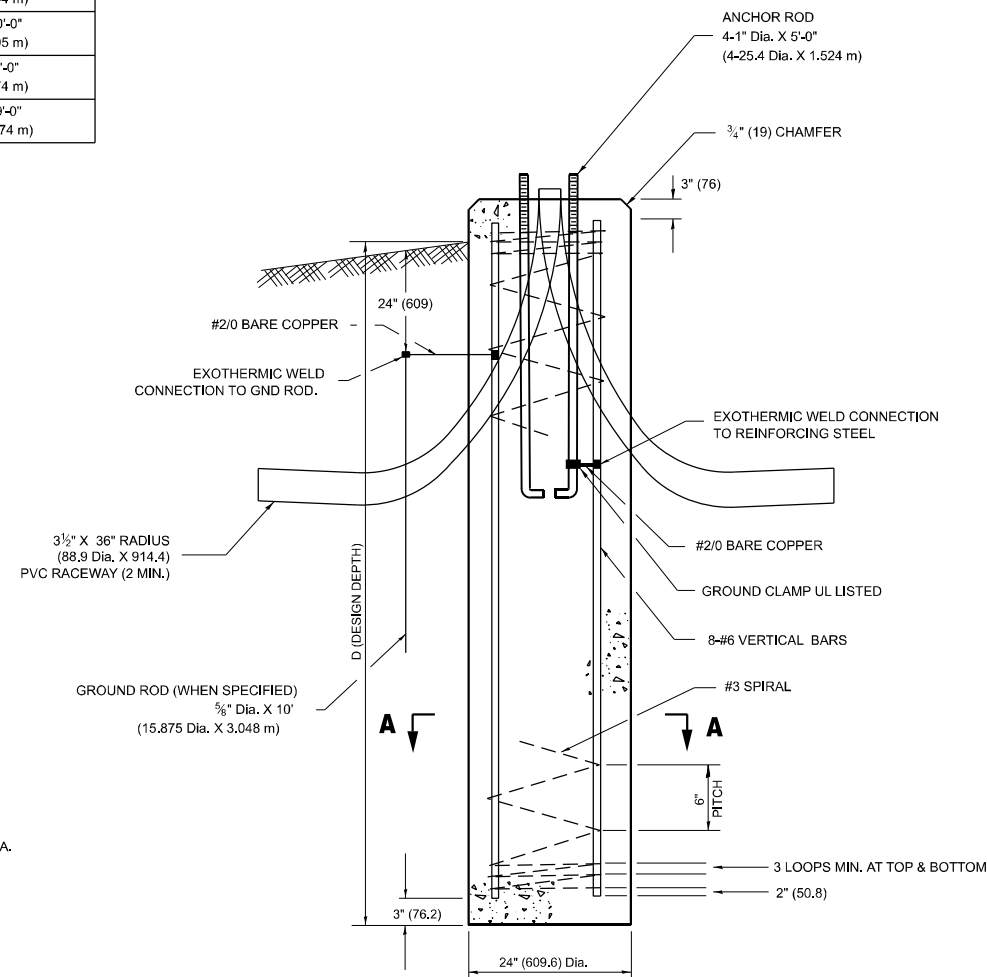


TOP VIEW

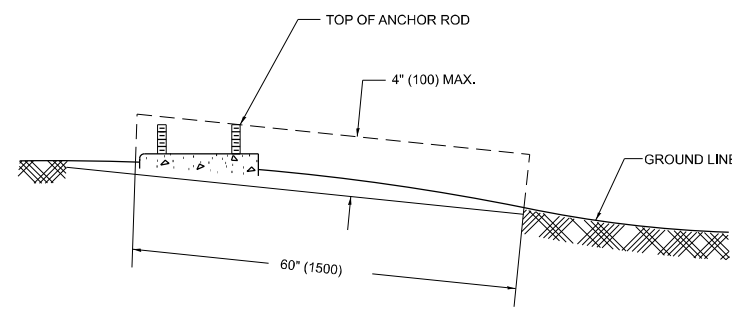
TOP VIEW



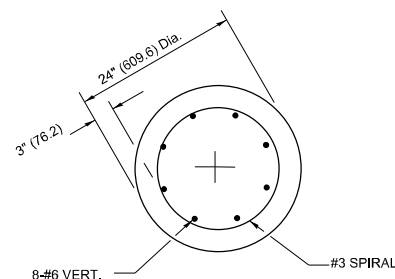
ANCHOR ROD DETAIL



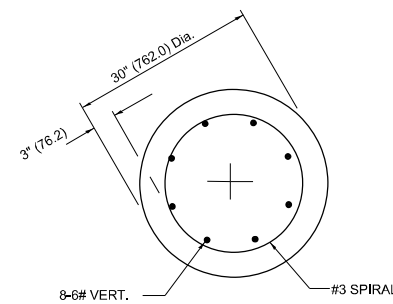
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 23#4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

MODEL: BE-301 (Sheet)
FILE NAME: c:\p\work\wis\concor.mullane\illinois.gov\10925477\108624-shr-Dia\Std.dgn

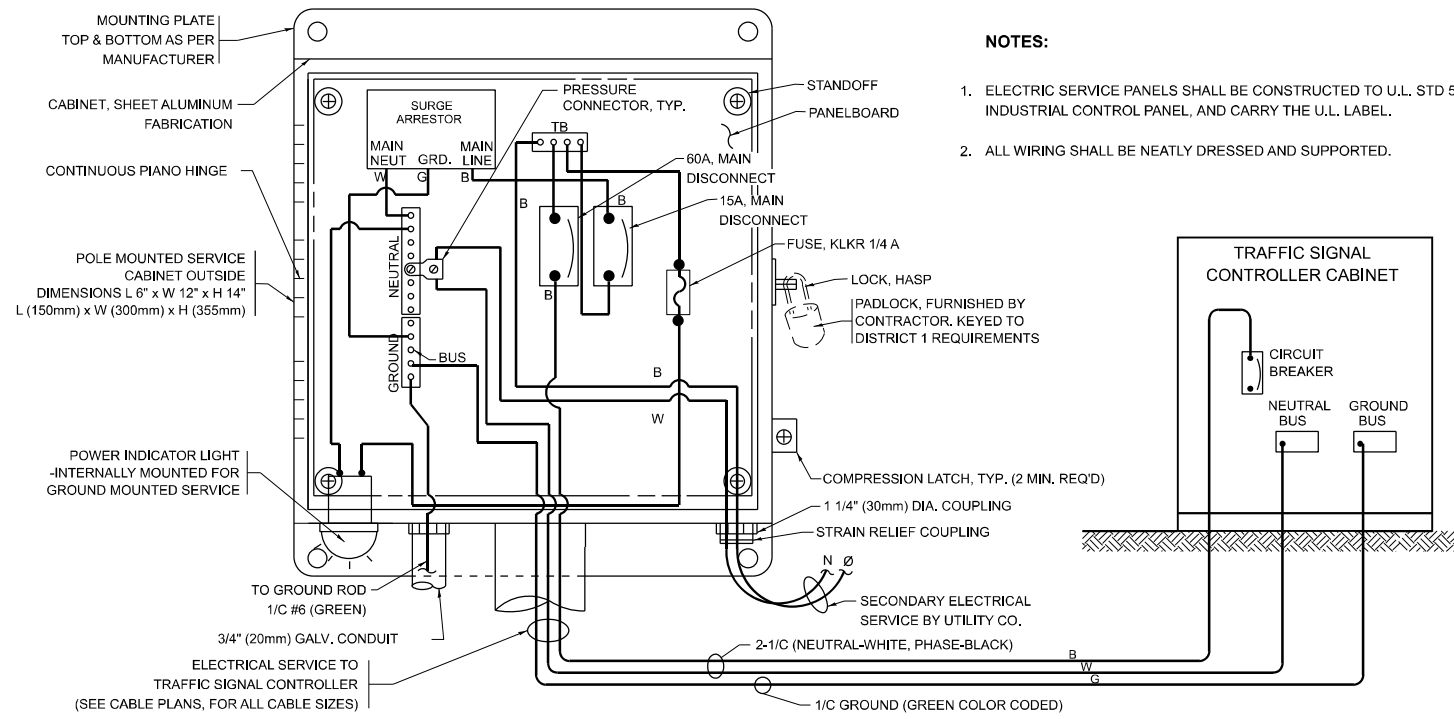
USER NAME = connor,mullane	DESIGNED -	REVISED - 04-22-02
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/13/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

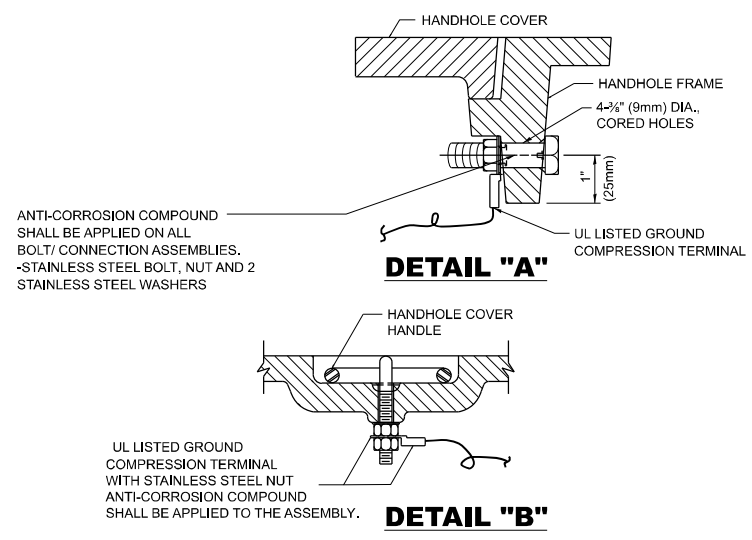
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	10
BE-301			CONTRACT NO. 60W06	
ILLINOIS FED. AID PROJECT				



ELECTRICAL SERVICE - PANEL DIAGRAM
(TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
 SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

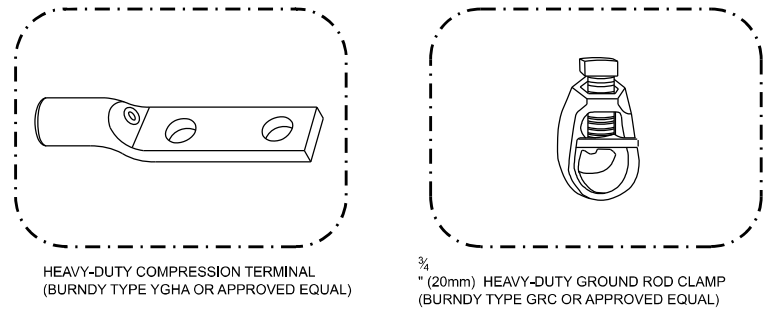
- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

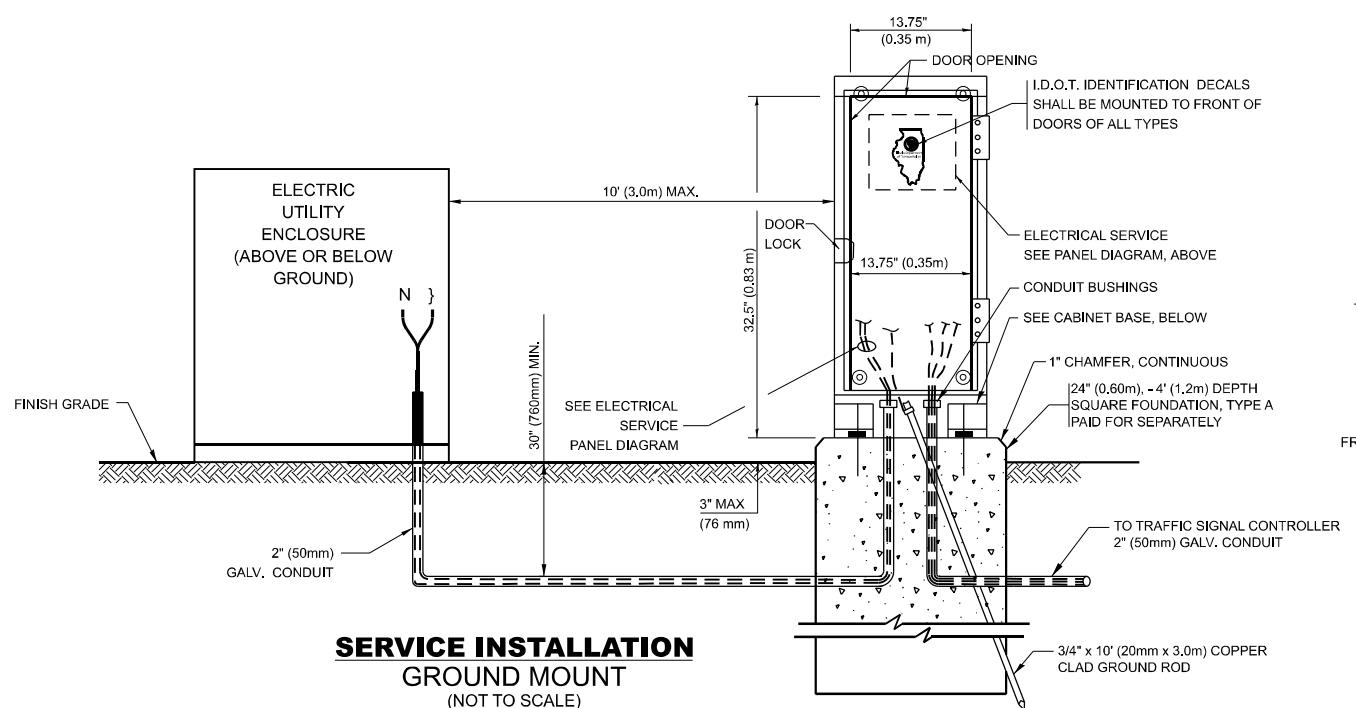
NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

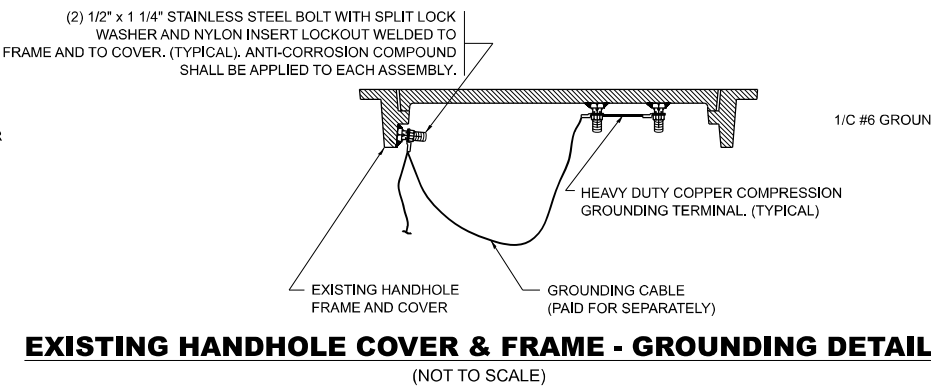


NOTES:

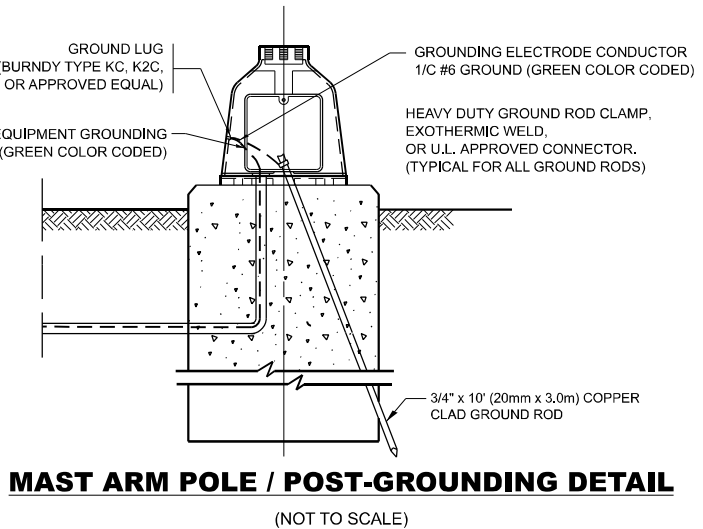
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



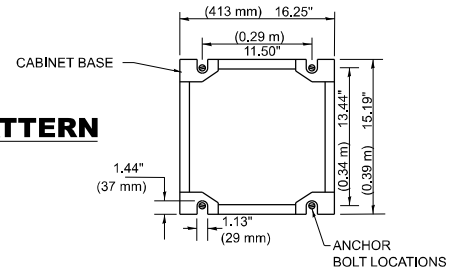
SERVICE INSTALLATION
GROUND MOUNT
 (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)



CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

MODEL: ts-05 (Sheet)
 FILE NAME: c:\p\work\traffic\connor.mullane\illinois.gov\0925477D\08624-sh-Details.dgn

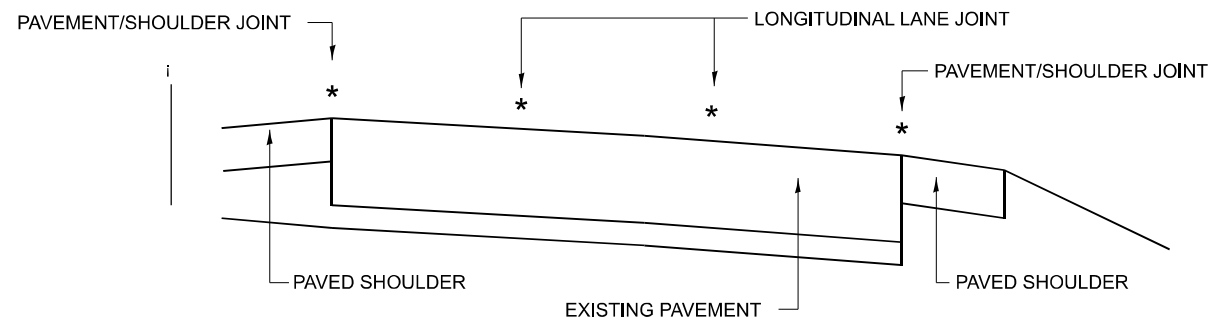
USER NAME = connor.mullane	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/13/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

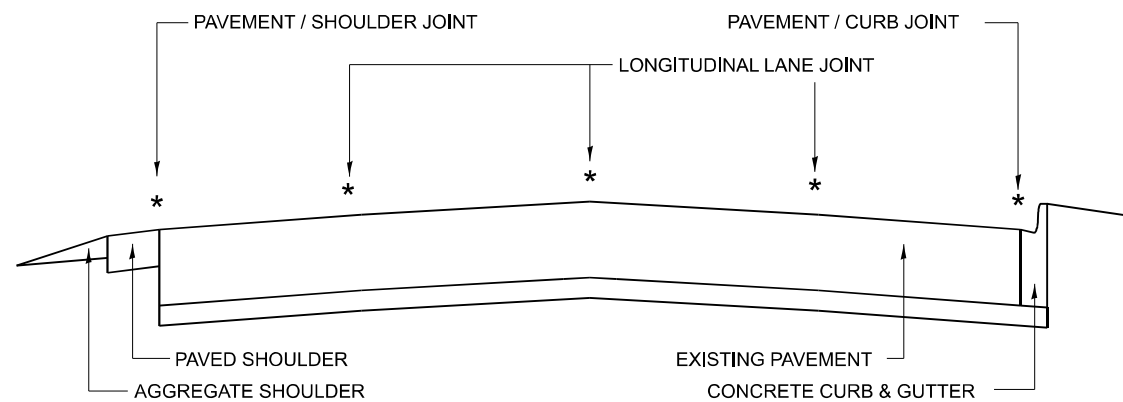
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 8 SHEETS STA. TO STA.

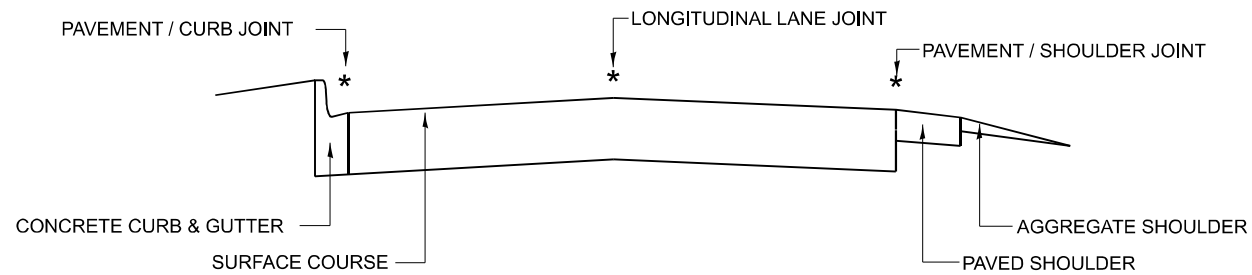
M.S. RTE. 2236A	SECTION 2023 ETP YARD PARKING	COUNTY COOK	TOTAL SHEETS 12	SHEET NO. 11
TS-05			CONTRACT NO. 62W06	
ILLINOIS FED. AID PROJECT				



MULTI-LANE DIVIDED PAVEMENT



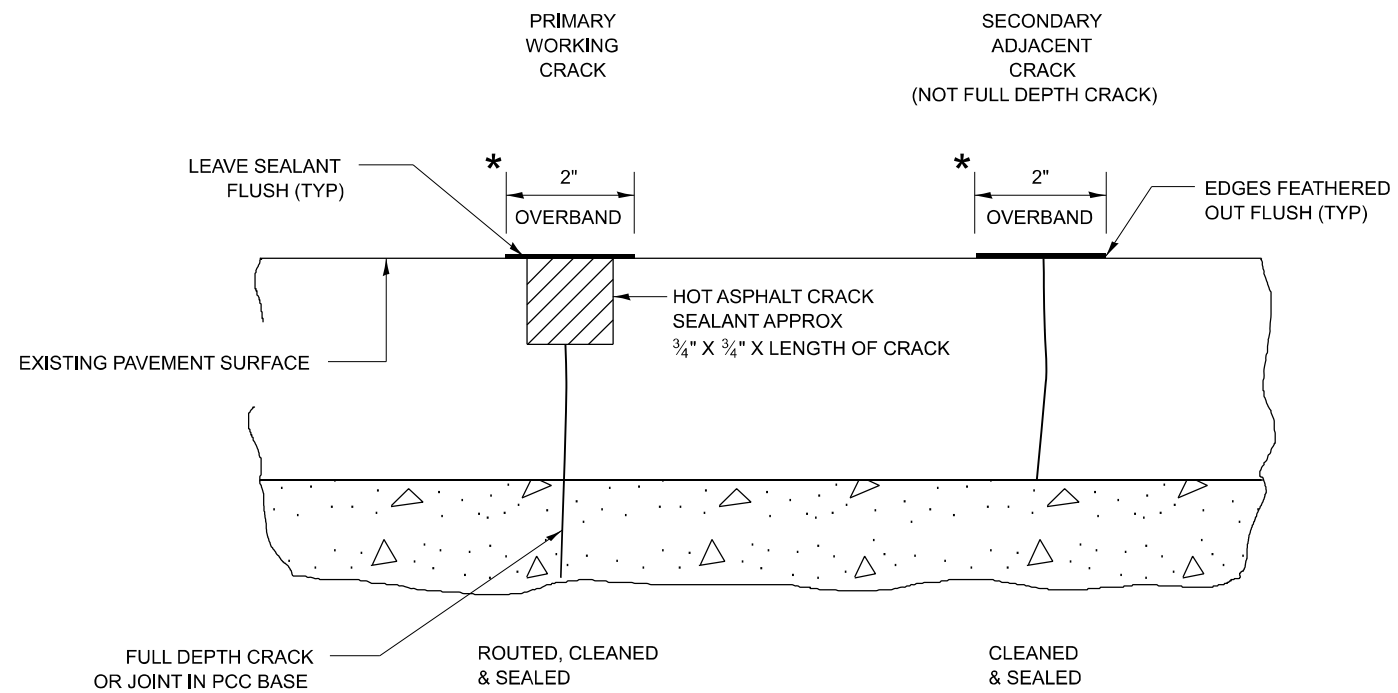
MULTI-LANE UNDIVIDED PAVEMENT



TWO-LANE PAVEMENT

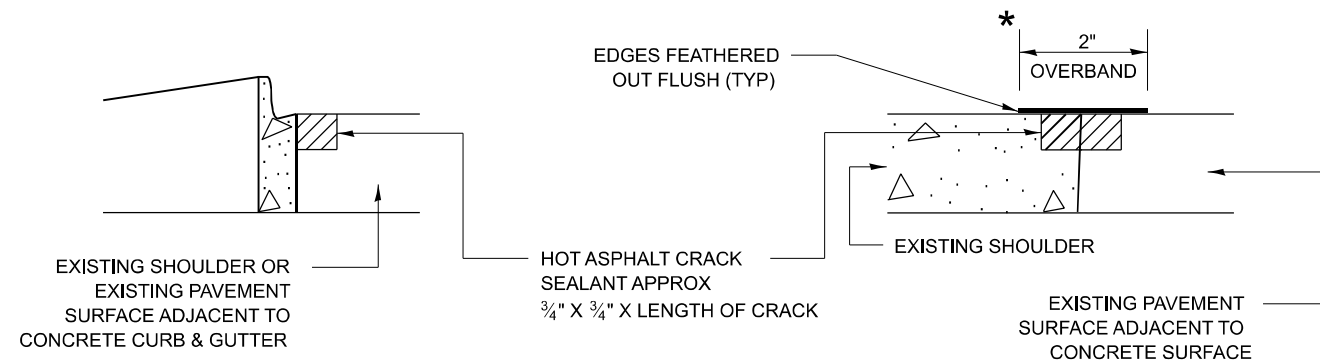
* PROPOSED LONGITUDINAL CRACK ROUTING (PAVEMENT) & CRACK FILLING LOCATIONS

GENERAL EXISTING TYPICAL SECTIONS
(APPLIES TO HMA AND PCC PAVEMENTS)



* IN ALL LOCATIONS WHERE THE LONGITUDINAL CRACK CONFLICTS WITH EXISTING PAVEMENT MARKINGS (EITHER EDGE LINE OR LANE LINE) THE CRACK SHALL BE ROUTED & THE RESULTING RESERVOIR FILLED WITH SEALANT. ALL DAMAGES TO EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS SHALL BE RESTORED WITH MODIFIED URETHANE PAVEMENT MARKINGS.

LONGITUDINAL JOINT



CRACK & JOINT SEALING DETAIL

MODEL: PD-11 (Sheet)
FILE NAME: c:\p\work\pavement\connor.mullane@illinois.gov\d0925477\108624-4rh-DistStates.dgn

USER NAME = connor.mullane	DESIGNED - F. Aqueel / A. Midy	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/13/2024	DATE - 10/08/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRACK & JOINT SEALING DETAIL
(PD-11)

SCALE: NONE SHEET 1 OF 8 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2236A	2023 ETP YARD PARKING	COOK	12	12
PD-11			CONTRACT NO. 62W06	
ILLINOIS FED. AID PROJECT				