REFLECTIVE CRACKING OUTDOOR PHASE I

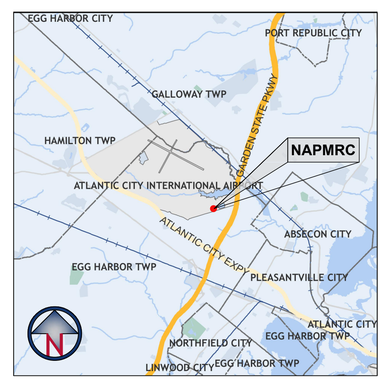
AS-BUILT DRAWINGS

NATIONAL AIRPORT PAVEMENT AND MATERIALS RESEARCH CENTER (NAPMRC)
WILLIAM J. HUGHES TECHNICAL CENTER
ATLANTIC CITY AIRPORT, NEW JERSEY

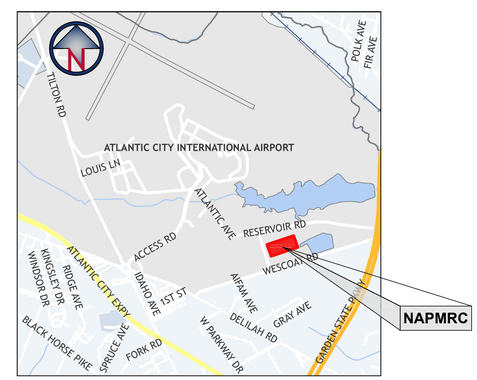
07/19/2019

NEW JERSEY STATE MAP N.T.S.

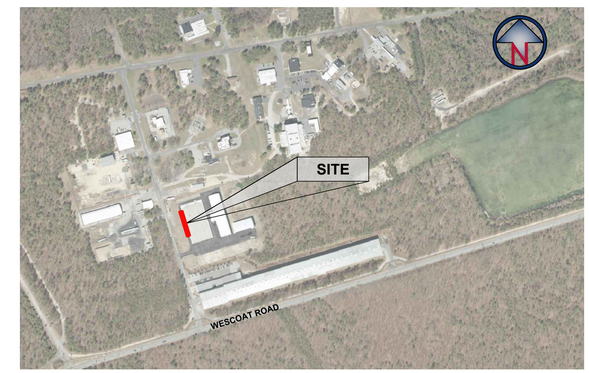
VICINITY MAP N.T.S.



PROJECT LOCATION MAP N.T.S.



AERIAL VIEW OF THE TEST SITE N.T.S.



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3 OF 17	SURVEY CONTROL PLAN	07/19/2019	12 OF 17	P-154 ELEVATION MAP	12/11/2018
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FEDERAL AVIATION ADMINISTRATION

PREPARED BY:

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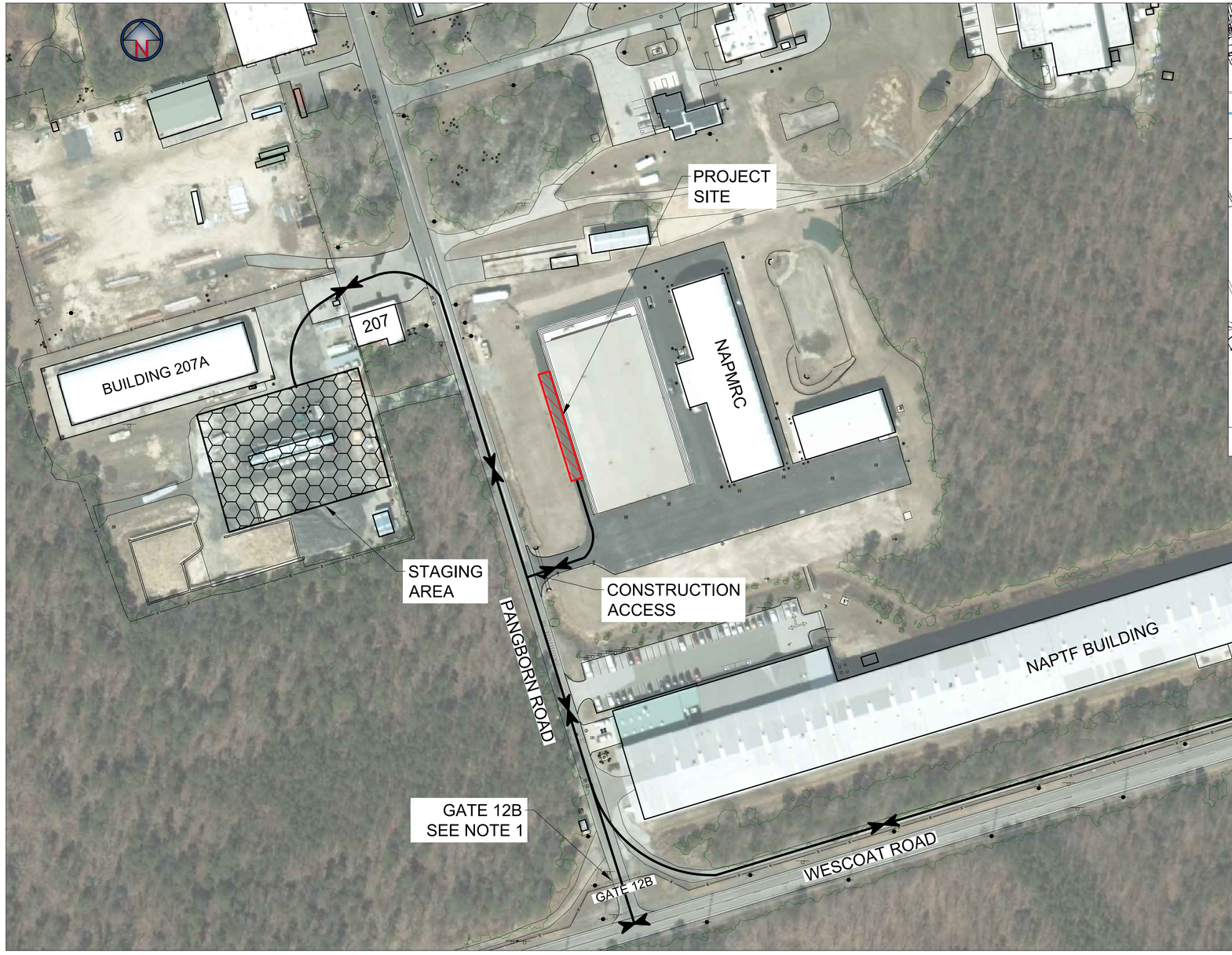

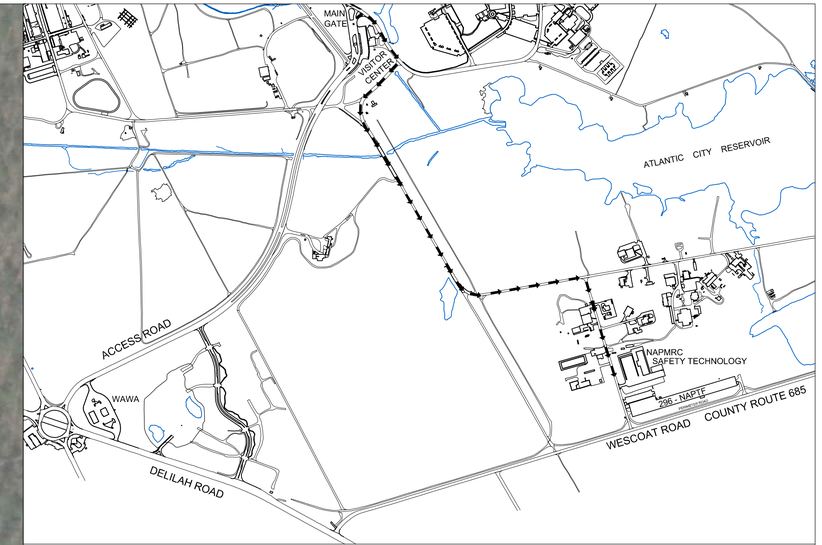

MAIN GATE ACCESS MAP

NOTES:

1. THE CONTRACTORS PRIMARY ACCESS WILL BE THROUGH THE MAIN GATE. HOWEVER. ACCESS THROUGH GATE 12A OR 12B CAN BE REQUESTED FOR PAVING AND DEMOLITION ACTIVITIES BY CONTACTING MURPHY FLYNN AT 609-485-5318 OR BEN MAHAFFAY AT 609-485-8555 AT LEAST 72 HOURS IN ADVANCE.
2. LOCATION OF THE CONTRACTORS STAGING AREA SHOWN IS APPROXIMATE. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. THE CONTRACTOR STAGING AREA CAN BE UTILIZED FOR THE CONTRACTORS FIELD OFFICE, PARKING OF COMPANY AND EMPLOYEE VEHICLES AND FOR STORAGE OF MATERIALS.
4. TRACKED CONSTRUCTION EQUIPMENT MAY BE PARKED OVERNIGHT IN THE CONSTRUCTION AREA. ALL OTHER PARKING AND ALL EQUIPMENT STORAGE SHALL BE IN THE STAGING AREA.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE. GRADING, EROSION CONTROL STABILIZATION AND UTILITY CONNECTIONS IN STAGING AREAS AND SHALL RESTORE SITE TO ORIGINAL CONDITIONS UPON COMPLETION OF THE WORK.
6. ALL CONSTRUCTION AREAS SHALL BE CONSIDERED LAND DISTURBANCE AREAS.
7. OVERHEAD UTILITIES AND POLES BELONG TO FAA.
8. CONTRACTOR MUST VERIFY UTILITY CAPACITY IS ADEQUATE FOR PROJECT NEEDS. IF CAPACITY IS INSUFFICIENT. CONTRACTOR IS RESPONSIBLE FOR UPGRADES OR NEW LINES.
9. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTIONS, CONNECTION REQUIREMENTS, AND COORDINATION WITH UTILITY OWNERS.
10. PANGBORN ROAD MUST BE KEPT CLEAN OF CONSTRUCTION DEBRIS AND AVAILABLE FOR USE BY FACILITY VEHICLES.

LEGEND:

- X — FENCE
- HAUL ROUTE
- CONSTRUCTION SITE
- STAGING AREA

80' 0 80' 160' 240'

GRAPHIC SCALE

1" = 80'

NO.	REVISIONS	DATE	BY	CHK	APR

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Information Technology
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FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / J.G.	
FAA APPROVAL DATE:		

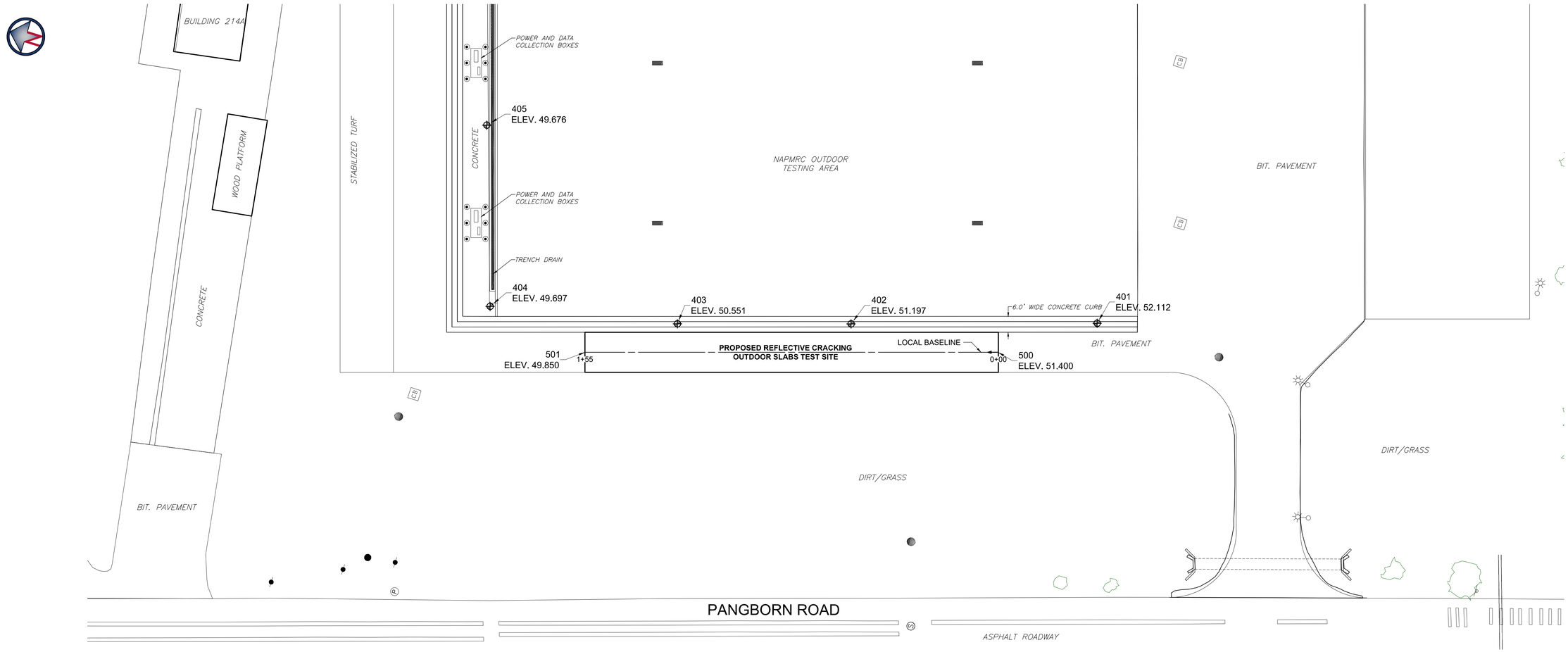
REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT

SITE ACCESS, HAULING AND STAGING AREA PLAN

PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 2 OF 17

CAD FILE: REFL-CRACK-OUT1-GNRL-ABLT.DWG



PLAN VIEW

SCALE: 1"=20'

SURVEY CONTROL POINTS

POINT #	NAD 83 NORTHING	NAD 83 EASTING	STATION	OFFSET	ELEVATION
401	218441.74	476086.06	-37.04	10.87	52.112
402	218529.81	476058.61	55.21	10.63	51.197
403	218592.05	476039.42	120.34	10.65	50.551
404	218661.06	476024.95	190.55	17.18	49.697
405	218682.30	476089.50	191.81	85.12	49.676
500	218473.92	476064.74	0.00	0.00	51.400
501	218622.02	476019.03	155.00	0.00	49.850

NOTES:

1. THE PROJECT AREA IS LOCATED NEAR THE NATIONAL AIRPORT PAVEMENT AND MATERIALS RESEARCH CENTER (NAPMRC) WITHIN THE WILLIAM J. HUGHES TECHNICAL CENTER, LOCATED AT THE ATLANTIC CITY INTERNATIONAL AIRPORT, EGG HARBOR TOWNSHIP, NEW JERSEY 08405.

2. THE HORIZONTAL CONTROL NETWORK IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).

STATION AND OFFSET COORDINATES ARE REFERENCED TO A LOCAL BASE LINE ALIGNED WITH THE TESTING AREA CENTER LINE.

3. THE VERTICAL CONTROL NETWORK IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

4. BASE INFORMATION TAKEN FROM PLANS BY OTHERS:

- HIGH TEMPERATURE PAVEMENT TEST FACILITY, EXISTING CONDITIONS & DEMOLITION PLAN, DRAWING NUMBER 2275550-C100.
- HIGH TEMPERATURE PAVEMENT TEST FACILITY, SITE LAYOUT PLAN, DRAWING NUMBER 2275550-C110, DATED 12/21/12, LAST REVISED 10/26/15.
- HIGH TEMPERATURE PAVEMENT TEST FACILITY, SITE UTILITY PLAN, DRAWING NUMBER 2275550-C130, DATED 12/21/12, LAST REVISED 10/26/15.
- CAD FILE WITH ACY BASE PLAN CAPTURED DURING 2015 BASEMAP PROJECT.

4. ALL DIMENSIONS ARE SHOWN IN UNITED STATES SURVEY FEET UNITS.

LEGEND:

- CONTROL POINT
- UTILITY POLE
- BOLLARD
- CATCH BASIN
- SEWER MANHOLE
- ELECTRICAL MANHOLE
- LIGHT POLE
- SIGN

CONTROL POINT MARKER DETAIL

EACH CONTROL POINT LOCATION IS MARKED WITH A MAGNETIC NAIL WITH WASHER. THE CONTROL POINT NUMBER IS ENGRAVED ON EACH WASHER.

20' 0 20' 40' 60'

GRAPHIC SCALE

1" = 20'

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ATLANTIC CITY AIRPORT
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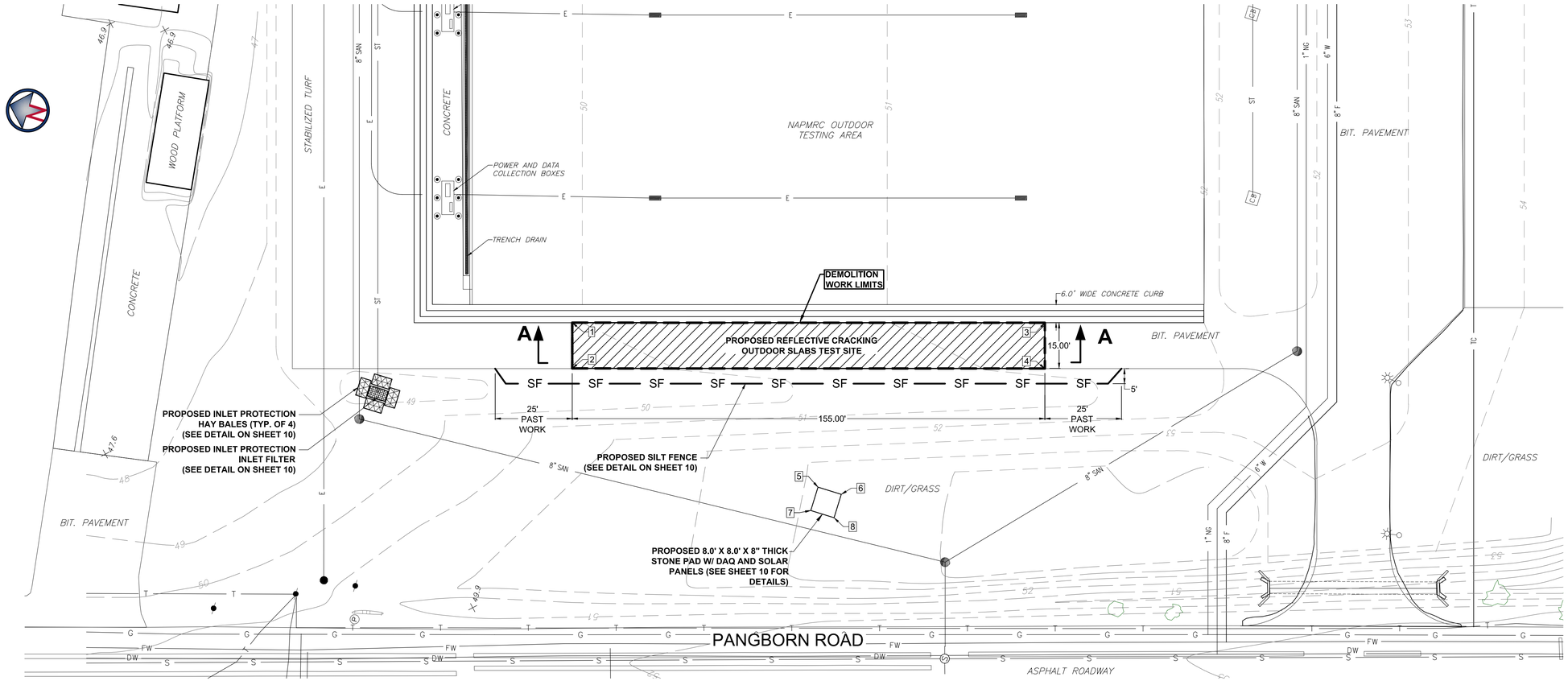
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / J.G.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT SURVEY CONTROL PLAN

PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 3 OF 17

CAD FILE: REFL-CRACK-OUT1-GNRL-ABLT.DWG



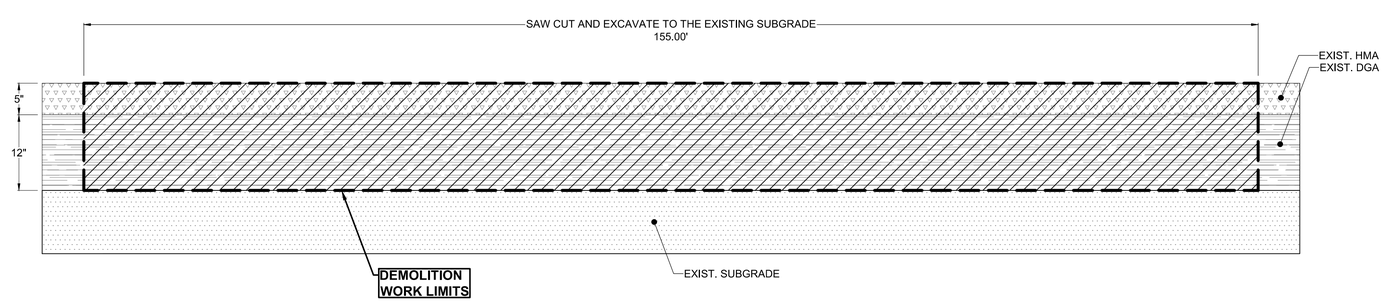
20' 0 20' 40' 60'

GRAPHIC SCALE

1" = 20'

PLAN VIEW

SCALE: 1"=20'



SECTION VIEW A-A

HORIZONTAL SCALE: 1"=10'

VERTICAL SCALE: 1"=1'

LEGEND - EXISTING:

- UTILITY POLE
- BOLLARD
- CATCH BASIN
- SEWER MANHOLE
- ELECTRICAL MANHOLE
- LIGHT POLE
- SIGN
- 52 — ELEVATION CONTOUR LINE
- E — ELECTRIC LINE
- T — TELECOMMUNICATION LINE
- G — GAS LINE
- DW — DOMESTIC WATER LINE
- FW — FIRE SYSTEM WATER LINE
- S — SEWER LINE
- ST — STORM LINE
- EXISTING SUBGRADE COURSE
- EXISTING AGGREGATE BASE (DGA)
- EXISTING HOT MIX ASPHALT (HMA)

LEGEND - PROPOSED:

- INLET FILTER
- HAY BALE
- SF — SILT FENCE
- DEMOLITION LIMITS

NOTES:

1. BASE INFORMATION TAKEN FROM PLANS BY OTHERS:
   - HIGH TEMPERATURE PAVEMENT TEST FACILITY, EXISTING CONDITIONS & DEMOLITION PLAN, DRAWING NUMBER 2275550-C100.
   - HIGH TEMPERATURE PAVEMENT TEST FACILITY, SITE LAYOUT PLAN, DRAWING NUMBER 2275550-C110, DATED 12/21/12, LAST REVISED 10/26/15.
   - HIGH TEMPERATURE PAVEMENT TEST FACILITY, SITE UTILITY PLAN, DRAWING NUMBER 2275550-C130, DATED 12/21/12, LAST REVISED 10/26/15.
   - CAD FILE WITH ACY BASE PLAN CAPTURED DURING 2015 BASEMAP PROJECT.
2. ALL DIMENSIONS ARE SHOWN IN UNITED STATES SURVEY FEET UNITS.
3. THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM THE ABOVE REFERENCED PLANS. COMPLETENESS OF LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED. ADDITIONAL UNDERGROUND UTILITIES MAY BE PRESENT AND NOT SHOWN ON THIS PLAN. USERS OF THIS PLAN MUST TAKE THE NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF PERSONNEL AND AVOID THE INTERRUPTION OF UTILITY SERVICES TO THE FACILITY.
4. EXISTING DGA MAY BE REUSED IN LIEU OF P-154 IF SAMPLES OBTAINED DURING EXCAVATION MEET THE GRADATIONS OF THE SPECIFICATION.

DEMOLITION LIMITS POINT TABLE

POINT #	NAD 83 NORTHING	NAD 83 EASTING	STATION	OFFSET
1	218624.24	476026.20	155.00	7.50
2	218619.81	476011.86	155.00	-7.50
3	218476.13	476071.91	0.00	7.50
4	218471.71	476057.58	0.00	-7.50

PAD CORNER POINTS TABLE

POINT #	NAD 83 NORTHING	NAD 83 EASTING	STATION	OFFSET
5	218531.32	475998.45	74.40	-46.42
6	218523.32	475998.45	66.76	-48.78
7	218531.32	475990.45	76.76	-54.06
8	218523.32	475990.45	69.12	-56.42

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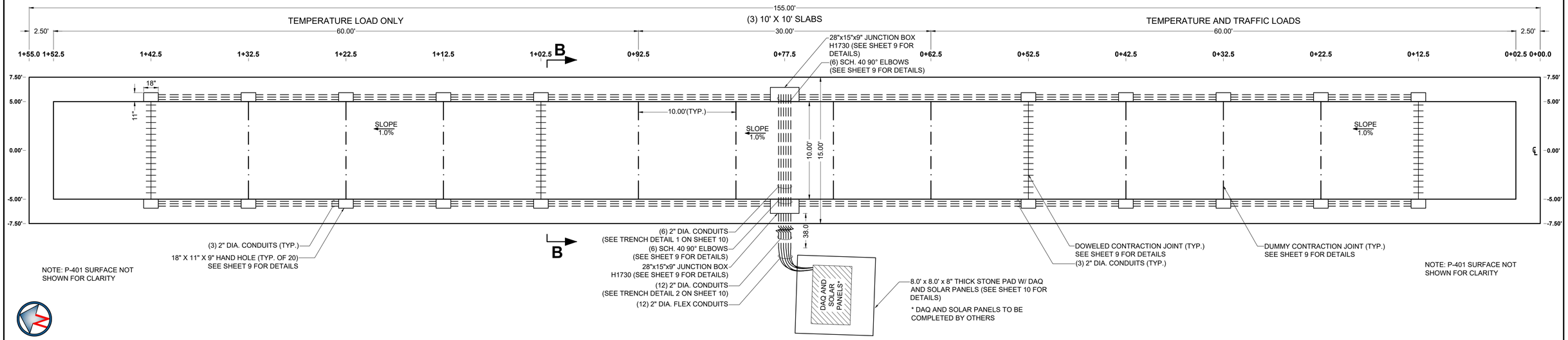
REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT EXISTING CONDITIONS, DEMOLITION, EROSION & SEDIMENT CONTROL

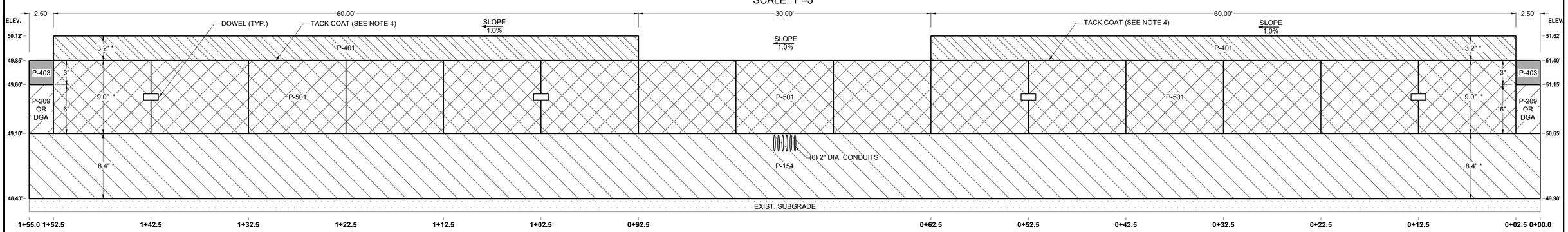
SIZE: ANSI D | SCALE: AS NOTED | SHEET 4 OF 17

CAD FILE: REFL-CRACK-OUT1-GNRL-ABLT.DWG



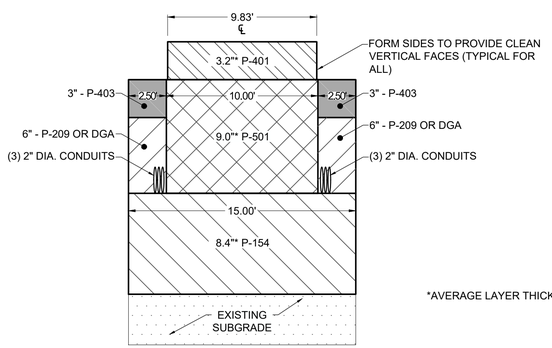
PLAN VIEW

SCALE: 1"=5'



PROFILE VIEW

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=0.5'



*AVERAGE LAYER THICKNESS BASED ON LiDAR DATA.

TYPICAL SECTION VIEW B-B

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=0.5'

NOTES:

1. PLACE P-501 IN ONE (1) LIFT.
2. PLACE P-401 IN ONE (1) COMPACTED LIFT.
3. PLACE P-154 IN ONE (1) COMPACTED LIFT.
4. STRAIGHT ASPHALT BINDER (I.E., PG 64-22) SHALL BE APPLIED BETWEEN LIFTS AND ON TOP OF THE CONCRETE AS A TACK COAT, AT AN APPLICATION RATE OF 0.04 – 0.06 GAL/YD2.
5. EXISTING DGA MAY BE REUSED IN LIEU OF P-154 IF SAMPLES OBTAINED DURING EXCAVATION MEET THE GRADATIONS OF THE SPECIFICATION.
6. P-501 CONCRETE TO HAVE BURLAP DRAG FINISH.

5' 0 5' 10' 15'

GRAPHIC SCALE
1" = 5'

LEGEND:

- TYPE C DOWELED CONTRACTION JOINT
- DUMMY CONTRACTION JOINT
- CONDUIT
- JUNCTION BOX
- PULL BOX
- P-401 PLANT MIX BITUMINOUS PAVEMENT
- P-501 - CONCRETE PAVEMENT (PORTLAND CEMENT CONCRETE)
- P-154 - SUBBASE
- P-209 OR DGA
- P-403 SURFACE COURSE

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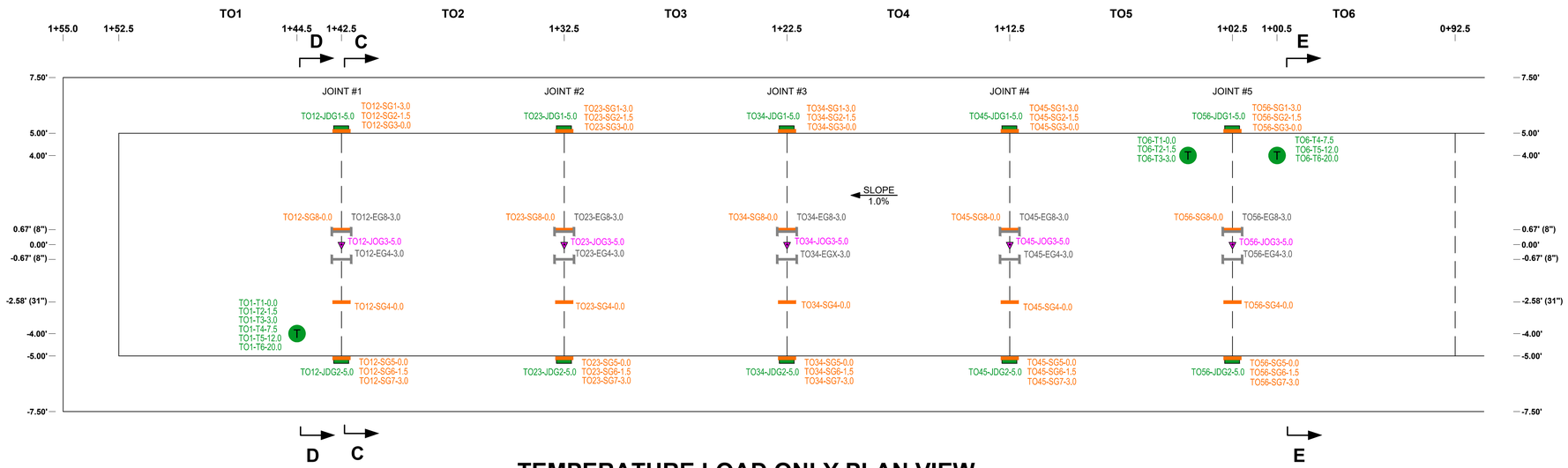
DRAWN	M. MAZUREK	07/19/2019
CHECKED	J.Z. / J.G.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT CONSTRUCTION PLAN

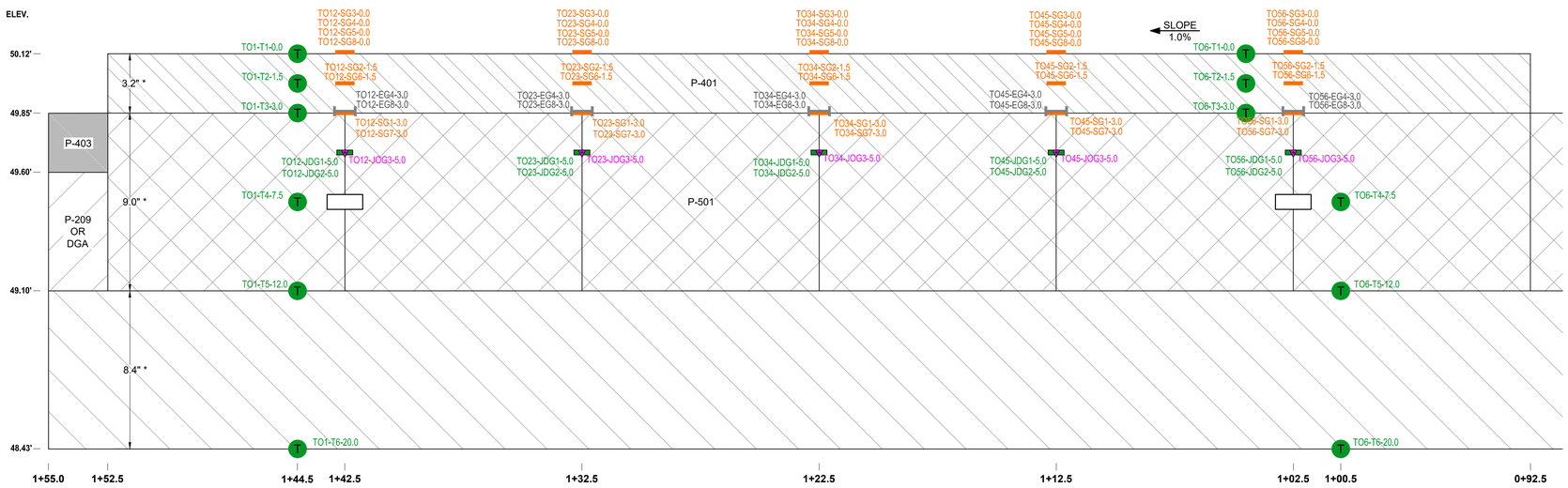
PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 5 OF 15

CAD FILE: REFL-CRACK-OUT1-CONS-ABLT.DWG



TEMPERATURE LOAD ONLY PLAN VIEW

SCALE: 1"=3'



TEMPERATURE LOAD ONLY PROFILE VIEW

HORIZONTAL SCALE: 1"=3'

VERTICAL SCALE: 1"=0.3'

3' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

PROPOSED INSTRUMENTATION

ID	SENSOR	X STA. (FEET)	Y OFFSET (FEET)	DEPTH FROM TOP LAYER SURFACE (IN)
1	TO1-T1-0.0	144.50	-4.00	0.0
2	TO1-T2-1.5	144.50	-4.00	1.5
3	TO1-T3-3.0	144.50	-4.00	3.0
4	TO1-T4-7.5	144.50	-4.00	7.5
5	TO1-T5-12.0	144.50	-4.00	12.0
6	TO1-T6-20.0	144.50	-4.00	20.0
7	TO6-T1-0.0	104.50	4.00	0.0
8	TO6-T2-1.5	104.50	4.00	1.5
9	TO6-T3-3.0	104.50	4.00	3.0
10	TO6-T4-7.5	100.50	4.00	7.5
11	TO6-T5-12.0	100.50	4.00	12.0
12	TO6-T6-20.0	100.50	4.00	20.0
135	TO12-EG4-3.0	142.50	-0.66	3.0
22	TO12-EG8-3.0	142.50	0.67	3.0
20	TO12-JDG1-5.0	142.50	5.00	5.0
21	TO12-JDG2-5.0	142.50	-5.00	5.0
155	TO12-JOG3-5.0	142.50	0.00	5.0
13	TO12-SG1-3.0	142.50	4.92	3.0
14	TO12-SG2-1.5	142.50	4.92	1.5
15	TO12-SG3-0.0	142.50	4.92	0.0
145	TO12-SG4-0.0	142.50	-2.58	0.0
17	TO12-SG5-0.0	142.50	-4.92	0.0
18	TO12-SG6-1.5	142.50	-4.92	1.5
19	TO12-SG7-3.0	142.50	-4.92	3.0
16	TO12-SG8-0.0	142.50	0.67	0.0
136	TO23-EG4-3.0	132.50	-0.66	3.0
33	TO23-EG8-3.0	132.50	0.67	3.0
31	TO23-JDG1-5.0	132.50	5.00	5.0
32	TO23-JDG2-5.0	132.50	-5.00	5.0
156	TO23-JOG3-5.0	132.50	0.00	5.0
24	TO23-SG1-3.0	132.50	4.92	3.0
25	TO23-SG2-1.5	132.50	4.92	1.5
26	TO23-SG3-0.0	132.50	4.92	0.0
146	TO23-SG4-0.0	132.50	-2.58	0.0
28	TO23-SG5-0.0	132.50	-4.92	0.0
29	TO23-SG6-1.5	132.50	-4.92	1.5
30	TO23-SG7-3.0	132.50	-4.92	3.0
27	TO23-SG8-0.0	132.50	0.67	0.0
44	TO34-EG8-3.0	122.50	0.67	3.0
137	TO34-EGX-3.0	122.50	-0.66	3.0

ID	SENSOR	X STA. (FEET)	Y OFFSET (FEET)	DEPTH FROM TOP LAYER SURFACE (IN)
42	TO34-JDG1-5.0	122.50	5.00	5.0
43	TO34-JDG2-5.0	122.50	-5.00	5.0
157	TO34-JOG3-5.0	122.50	0.00	5.0
35	TO34-SG1-3.0	122.50	4.92	3.0
36	TO34-SG2-1.5	122.50	4.92	1.5
37	TO34-SG3-0.0	122.50	4.92	0.0
147	TO34-SG4-0.0	122.50	-2.58	0.0
39	TO34-SG5-0.0	122.50	-4.92	0.0
40	TO34-SG6-1.5	122.50	-4.92	1.5
41	TO34-SG7-3.0	122.50	-4.92	3.0
38	TO34-SG8-0.0	122.50	0.67	0.0
138	TO45-EG4-3.0	112.50	-0.66	3.0
55	TO45-EG8-3.0	112.50	0.67	3.0
53	TO45-JDG1-5.0	112.50	5.00	5.0
54	TO45-JDG2-5.0	112.50	-5.00	5.0
158	TO45-JOG3-5.0	112.50	0.00	5.0
46	TO45-SG1-3.0	112.50	4.92	3.0
47	TO45-SG2-1.5	112.50	4.92	1.5
48	TO45-SG3-0.0	112.50	4.92	0.0
148	TO45-SG4-0.0	112.50	-2.58	0.0
50	TO45-SG5-0.0	112.50	-4.92	0.0
51	TO45-SG6-1.5	112.50	-4.92	1.5
52	TO45-SG7-3.0	112.50	-4.92	3.0
49	TO45-SG8-0.0	112.50	0.67	0.0
139	TO56-EG4-3.0	102.50	-0.66	3.0
66	TO56-EG8-3.0	102.50	0.67	3.0
64	TO56-JDG1-5.0	102.50	5.00	5.0
65	TO56-JDG2-5.0	102.50	-5.00	5.0
159	TO56-JOG3-5.0	102.50	0.00	5.0
57	TO56-SG1-3.0	102.50	4.92	3.0
58	TO56-SG2-1.5	102.50	4.92	1.5
59	TO56-SG3-0.0	102.50	4.92	0.0
149	TO56-SG4-0.0	102.50	-2.58	0.0
61	TO56-SG5-0.0	102.50	-4.92	0.0
62	TO56-SG6-1.5	102.50	-4.92	1.5
63	TO56-SG7-3.0	102.50	-4.92	3.0
60	TO56-SG8-0.0	102.50	0.67	0.0

*AVERAGE LAYER THICKNESS BASED ON LiDAR DATA.

INSTRUMENT KEY AND QUANTITY

	EG	EMBEDDED DYNATEST STRAIN GAGE	10
	SG	SURFACE STRAIN GAGE	40
	JDG	JOINT DISPLACEMENT GAGE	10
T	T	THERMOCOUPLE	12
	JOG	(WILL'S) JOINT OPENING GAGE	5

LEGEND:

- P-401 PLANT MIX BITUMINOUS PAVEMENT
- P-501 - CONCRETE PAVEMENT (PORTLAND CEMENT CONCRETE)
- P-154 - SUBBASE
- P-403 SURFACE COURSE

NO.	REVISIONS	DATE	BY	CHK	APR

GENERAL DYNAMICS
Information Technology
200 DECADON DRIVE
EGG HARBOR TOWNSHIP
NEW JERSEY 08234
PHONE: (609) 677-8543

FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / J.G.	
FAA APPROVAL DATE:		

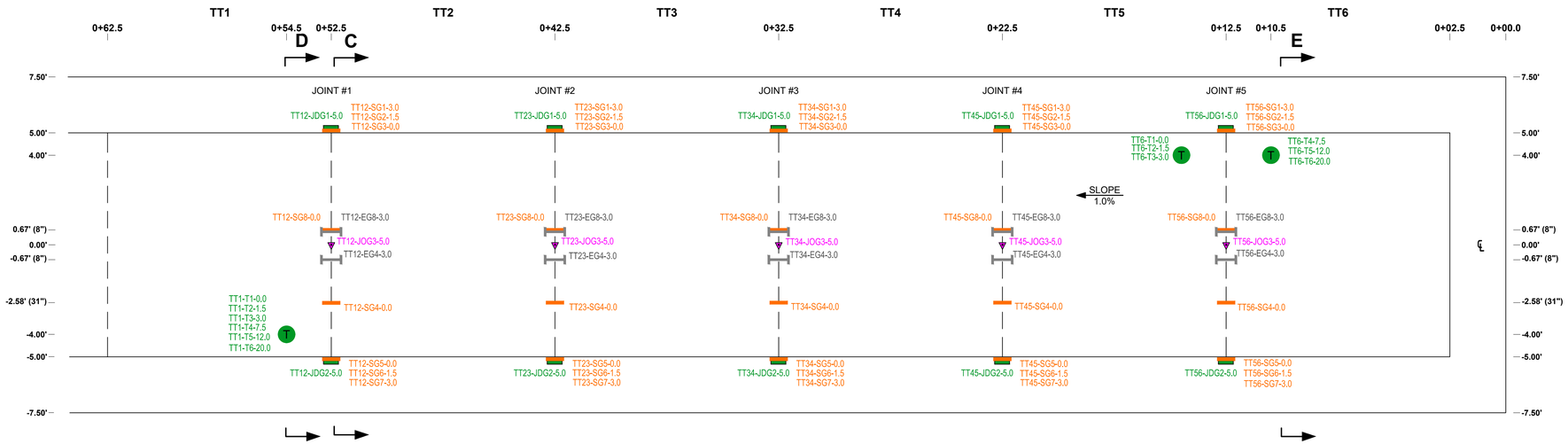
REFLECTIVE CRACKING OUTDOOR

PHASE I AS-BUILT

TEMPERATURE LOAD ONLY INSTRUMENTATION PLAN

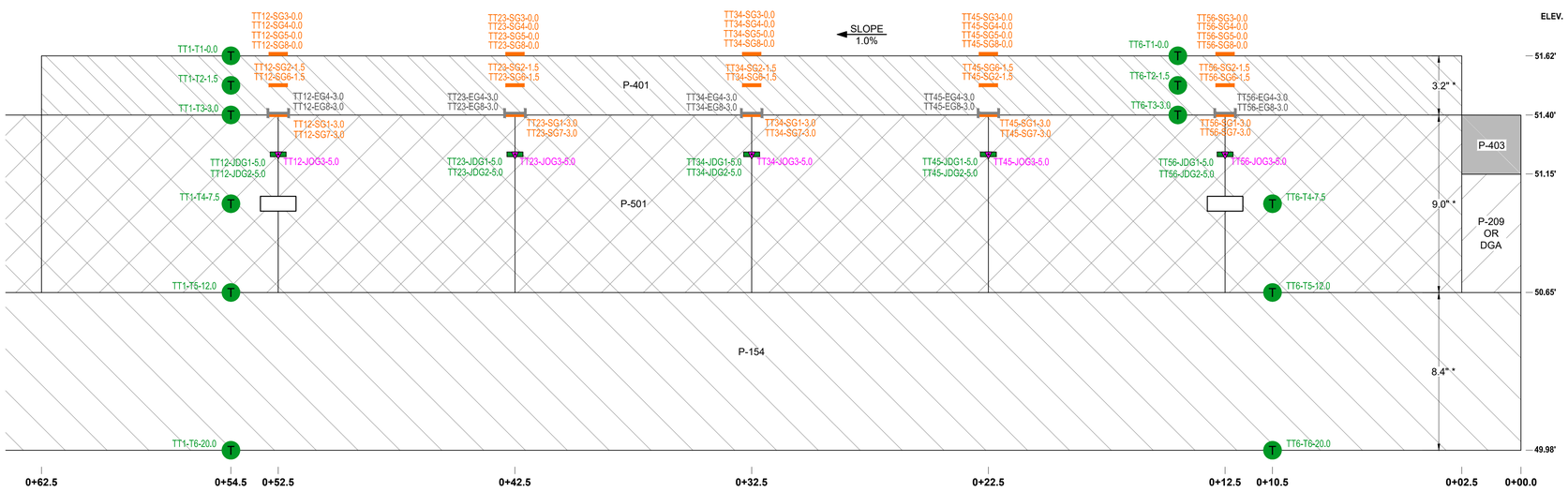
PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 6 OF 17

CAD FILE: REFL-CRACK-OUT1-INST-ABLT.DWG



TEMPERATURE AND TRAFFIC LOADS PLAN VIEW

SCALE: 1"=3'



TEMPERATURE AND TRAFFIC LOADS PROFILE VIEW

HORIZONTAL SCALE: 1"=3'

VERTICAL SCALE: 1"=0.3'

3' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

PROPOSED INSTRUMENTATION

ID	SENSOR	X STA. (FEET)	Y OFFSET (FEET)	DEPTH FROM TOP LAYER SURFACE (IN)
133	TT1-T1-0.0	54.50	-4.00	0.0
134	TT1-T2-1.5	54.50	-4.00	1.5
69	TT1-T3-3.0	54.50	-4.00	3.0
71	TT1-T4-7.5	54.50	-4.00	7.5
68	TT1-T5-12.0	54.50	-4.00	12.0
70	TT1-T6-20.0	54.50	-4.00	20.0
75	TT6-T1-0.0	14.50	4.00	0.0
76	TT6-T2-1.5	14.50	4.00	1.5
77	TT6-T3-3.0	14.50	4.00	3.0
72	TT6-T4-7.5	10.50	4.00	7.5
73	TT6-T5-12.0	10.50	4.00	12.0
74	TT6-T6-20.0	10.50	4.00	20.0
140	TT12-EG4-3.0	52.50	-0.66	3.0
129	TT12-EG8-3.0	52.50	0.67	3.0
127	TT12-JDG1-5.0	52.50	5.00	5.0
128	TT12-JDG2-5.0	52.50	-5.00	5.0
160	TT12-JOG3-5.0	52.50	0.00	5.0
78	TT12-SG1-3.0	52.50	4.92	3.0
79	TT12-SG2-1.5	52.50	4.92	1.5
80	TT12-SG3-0.0	52.50	4.92	0.0
150	TT12-SG4-0.0	52.50	-2.58	0.0
82	TT12-SG5-0.0	52.50	-4.92	0.0
83	TT12-SG6-1.5	52.50	-4.92	1.5
84	TT12-SG7-3.0	52.50	-4.92	3.0
81	TT12-SG8-0.0	52.50	0.67	0.0
141	TT23-EG4-3.0	42.50	-0.66	3.0
92	TT23-EG8-3.0	42.50	0.67	3.0
90	TT23-JDG1-5.0	42.50	5.00	5.0
91	TT23-JDG2-5.0	42.50	-5.00	5.0
161	TT23-JOG3-5.0	42.50	0.00	5.0
131	TT23-SG1-3.0	42.50	4.92	3.0
132	TT23-SG2-1.5	42.50	4.92	1.5
85	TT23-SG3-0.0	42.50	4.92	0.0
151	TT23-SG4-0.0	42.50	-2.58	0.0
87	TT23-SG5-0.0	42.50	-4.92	0.0
88	TT23-SG6-1.5	42.50	-4.92	1.5
89	TT23-SG7-3.0	42.50	-4.92	3.0
86	TT23-SG8-0.0	42.50	0.67	0.0
142	TT34-EG4-3.0	32.50	-0.66	3.0
103	TT34-EG8-3.0	32.50	0.67	3.0

ID	SENSOR	X STA. (FEET)	Y OFFSET (FEET)	DEPTH FROM TOP LAYER SURFACE (IN)
101	TT34-JDG1-5.0	32.50	5.00	5.0
102	TT34-JDG2-5.0	32.50	-5.00	5.0
162	TT34-JOG3-5.0	32.50	0.00	5.0
94	TT34-SG1-3.0	32.50	4.92	3.0
95	TT34-SG2-1.5	32.50	4.92	1.5
96	TT34-SG3-0.0	32.50	4.92	0.0
152	TT34-SG4-0.0	32.50	-2.58	0.0
98	TT34-SG5-0.0	32.50	-4.92	0.0
99	TT34-SG6-1.5	32.50	-4.92	1.5
100	TT34-SG7-3.0	32.50	-4.92	3.0
97	TT34-SG8-0.0	32.50	0.67	0.0
143	TT45-EG4-3.0	22.50	-0.66	3.0
114	TT45-EG8-3.0	22.50	0.67	3.0
112	TT45-JDG1-5.0	22.50	5.00	5.0
113	TT45-JDG2-5.0	22.50	-5.00	5.0
163	TT45-JOG3-5.0	22.50	0.00	5.0
105	TT45-SG1-3.0	22.50	4.92	3.0
106	TT45-SG2-1.5	22.50	4.92	1.5
107	TT45-SG3-0.0	22.50	4.92	0.0
153	TT45-SG4-0.0	22.50	-2.58	0.0
109	TT45-SG5-0.0	22.50	-4.92	0.0
110	TT45-SG6-1.5	22.50	-4.92	1.5
111	TT45-SG7-3.0	22.50	-4.92	3.0
108	TT45-SG8-0.0	22.50	0.67	0.0
144	TT56-EG4-3.0	12.50	-0.66	3.0
125	TT56-EG8-3.0	12.50	0.67	3.0
123	TT56-JDG1-5.0	12.50	5.00	5.0
124	TT56-JDG2-5.0	12.50	-5.00	5.0
164	TT56-JOG3-5.0	12.50	0.00	5.0
116	TT56-SG1-3.0	12.50	4.92	3.0
117	TT56-SG2-1.5	12.50	4.92	1.5
118	TT56-SG3-0.0	12.50	4.92	0.0
154	TT56-SG4-0.0	12.50	-2.58	0.0
120	TT56-SG5-0.0	12.50	-4.92	0.0
121	TT56-SG6-1.5	12.50	-4.92	1.5
122	TT56-SG7-3.0	12.50	-4.92	3.0
119	TT56-SG8-0.0	12.50	0.67	0.0

*AVERAGE LAYER THICKNESS BASED ON LiDAR DATA.

INSTRUMENT KEY AND QUANTITY

	EG	EMBEDDED DYNATEST STRAIN GAGE	10
	SG	SURFACE STRAIN GAGE	40
	JDG	JOINT DISPLACEMENT GAGE	10
T	T	THERMOCOUPLE	12
	JOG	(WILL'S) JOINT OPENING GAGE	5

LEGEND:

- P-401 PLANT MIX BITUMINOUS PAVEMENT
- P-501 - CONCRETE PAVEMENT (PORTLAND CEMENT CONCRETE)
- P-154 - SUBBASE
- P-403 SURFACE COURSE

NO.	REVISIONS	DATE	BY	CHK	APR

GENERAL DYNAMICS
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PHONE: (609) 677-8543

FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

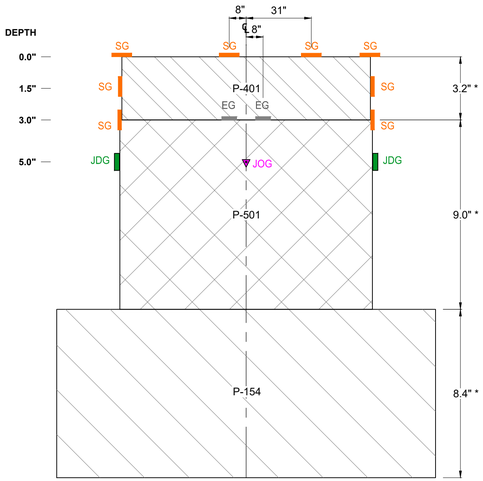
	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / J.G.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT TEMPERATURE AND TRAFFIC LOADS INSTRUMENTATION PLAN

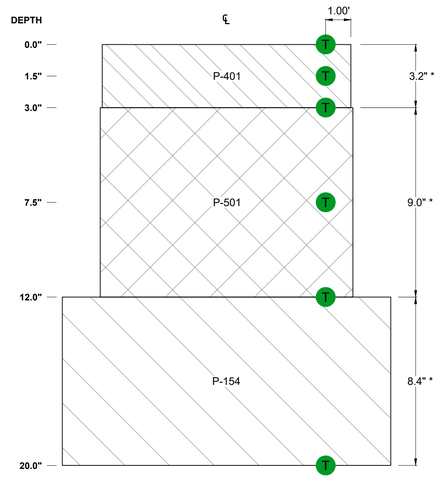
PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 7 OF 17

CAD FILE: REFL-CRACK-OUT1-INST-ABLT.DWG



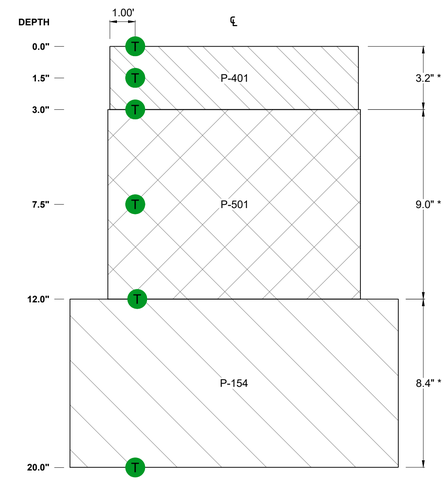
TYPICAL INSTRUMENTATION SECTION VIEW C-C

HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=0.3'



THERMOCOUPLE PLACEMENT SECTION VIEW D-D

HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=0.3'



THERMOCOUPLE PLACEMENT SECTION VIEW E-E

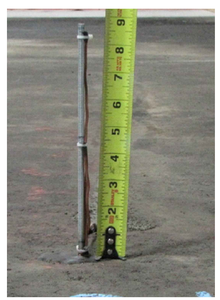
HORIZONTAL SCALE: 1"=3'
VERTICAL SCALE: 1"=0.3'

INSTRUMENT KEY AND QUANTITY			
	EG	EMBEDDED DYNATEST STRAIN GAGE	20
	SG	SURFACE STRAIN GAGE	80
	JDG	JOINT DISPLACEMENT GAGE	20
T	T	THERMOCOUPLE	24
	JOG	(WILL'S) JOINT OPENING GAGE	10

LEGEND:

- P-401 PLANT MIX BITUMINOUS PAVEMENT
- P-501 - CONCRETE PAVEMENT (PORTLAND CEMENT CONCRETE)
- P-154 - SUBBASE

*AVERAGE LAYER THICKNESS BASED ON LiDAR DATA.

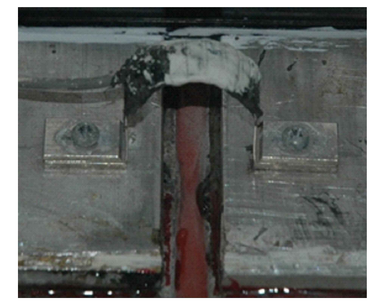


THERMOCOUPLE

N.T.S.

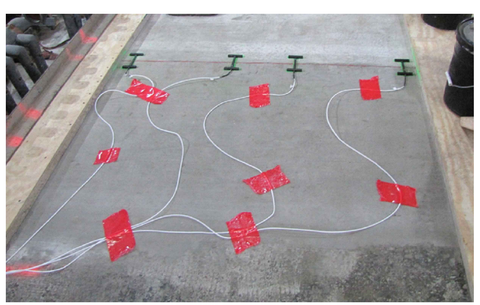
SURFACE STRAIN GAGE

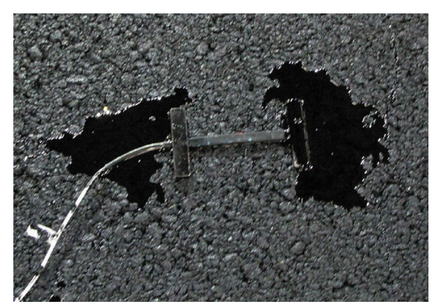
N.T.S.



JOINT DISPLACEMENT GAGE

N.T.S.





EMBEDDED H-BAR STRAIN GAGES

N.T.S.

JOINT OPENING GAGE

N.T.S.

NO.	REVISIONS	DATE	BY	CHK	APR

GENERAL DYNAMICS
Information Technology
200 DECADON DRIVE
EGG HARBOR TOWNSHIP
NEW JERSEY 08234
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FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / J.G.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR
PHASE I - AS-BUILT
INSTRUMENTATION SECTION VIEWS & PHOTOGRAPHS

PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 8 OF 17

CAD FILE: REFL-CRACK-OUT1-INST-ABLT.DWG

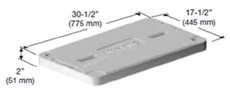
CARSON INDUSTRIES LLC
SPECIFIED AND PREFERRED WORLDWIDE

Glendora, California
Toll-Free: 800.735.5566
Phone: 909.592.6272
Fax: 909.592.7971

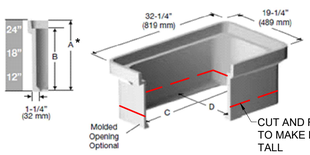
Roscommon, Ireland
Phone: 35.39.03.25922
Fax: 35.39.03.25921

H Series H1730

Heavy Duty



Cover[1]
Material: Polymer Concrete
Weight: 75.0 lbs. (34 kgs)
Model: H1730-P1
Skid Resistant Surface[2]
(Material and cover dimensions compliant with WUC, Guide 3.6[3])



Bodies (12", 18", 24")
Material: Polymer Concrete

Model: H1730-12 (65 lbs./29.4 kgs)
A 12" (305 mm) B 10" (254 mm)
C 28 5/16" (720 mm) D 15 5/16" (390 mm)

Model: H1730-18 (92 lbs./41.7 kgs)
A 18" (457 mm) B 16" (406 mm)
C 28 3/16" (716 mm) D 15 3/16" (386 mm)

Model: H1730-24 (117 lbs./53.0 kgs)
A 24" (610 mm) B 22" (559 mm)
C 28 1/16" (712 mm) D 15 1/16" (382 mm)

Vertical and Lateral Load Rating

Heavy Duty Covers

- Compliant with AASHTO, Design Load of H-10; ASTM C 857-95, Design Load of A-8, 8,000 lbs. Capable of withstanding a Static Load of >22,880 lbf transferred through a 10" x 10" steel plate centered on the cover and body.
- Compliant with AASHTO, Design Load of H-20; ASTM C 857-95, Design Load of A-16, 16,000 lbs. Capable of withstanding a Static Load of >45,760 lbf transferred through a 10" x 20" steel plate centered on the cover and body.
- This product is designed to withstand H-10 and H-20 loading in incidental or non-deliberate traffic areas. Not intended to be installed in roadways.

Shipping Configuration

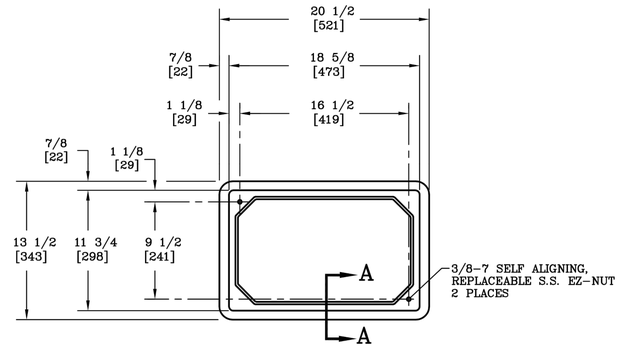
- **Single Bodies – 12":** Unit, 12 assemblies, = 69.5 cu. ft.; 1,680.0 lbs.
- **Single Bodies – 18":** Unit, 6 assemblies, = 53.8 cu. ft.; 1,002.0 lbs.
- **Single Bodies – 24":** Unit, 6 assemblies, = 69.5 cu. ft.; 1,152.0 lbs.

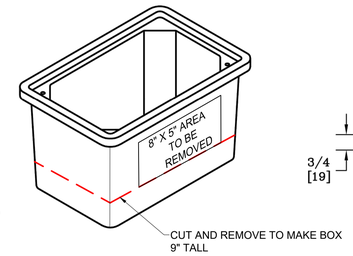
Standard Test Method	Properties of Raw Material	ASTM Designation	Test Results
Compressive Strength of Polymer Concretes	Compressive Strength	C 579-96	11,000 psi
Flexural Strength and Modulus of Elasticity of Polymer Concretes	Flexural Strength Modulus of Elasticity	C 580-93	1,800 psi 2,900,000 psi
Chemical Resistance of Polymer Concretes	Chemical Resistance	C 267-97	Pass[4]
Determination of Impact Resistance by means of a Tup (falling weight)	Impact Resistance	D 2444-93	Pass[5]

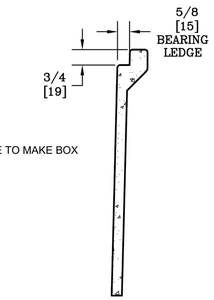
[1]AASHTO H-10, ASTM C 857, A-8, 8,000 lbs Design Load. Static Vertical Load Rating >22,880 lbf. AASHTO H-20, ASTM C 857 A-16, 16,000 lbs Design Load. Static Vertical Load Rating > 45,760 lbf
[2]Coefficient of Friction (ASTM C1028) >0.5
[3]Western Underground Committee, Guide 3.6
[4]Specimens exposed to ten reagents (alkalis, acids and petroleum distillates) experience <2% weight and dimensional change and retain >75% of average Compressive Strength. Listing of reagents and test reports available upon request.
[5]Capable of withstanding 70 ft lbs impact with a type "C" Tup.

JUNCTION BOX SPECIFICATIONS

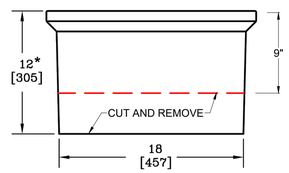
N.T.S.

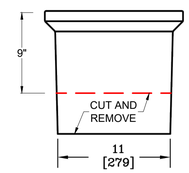






SECTION A–A
SCALE: 3"=1'





* 3" OF THE BOTTOM WILL BE CUT AND REMOVED TO MAKE A BOX 9" TALL.

NOTES:

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. GASKETED HEAVY DUTY COVER W/2 BOLTS, HUBBELL PART NUMBER PG1118HG00.
3. OPEN BOTTOM BOX, HUBBELL PART NUMBER PG1118BA12.

HAND HOLE SPECIFICATIONS

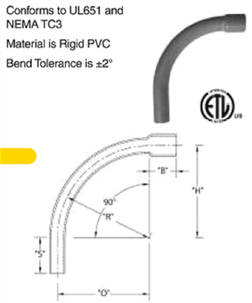
N.T.S.

Schedule 40 90° Elbow - Bell End

Part Number	Trade Size	Carton Qty.	"R"	"O"	"H"	"S" MIN	"B" MIN	"L"
5233823	1/2	50	4.000	4.000	4.000	1.500	1.000	6.250
5233824	3/4	35	4.500	4.500	4.500	1.500	1.500	7.125
5233825	1	20	5.750	5.75	5.75	1.875	1.500	9.000
5233826	1-1/4	30	7.250	7.250	7.250	2.000	1.500	11.375
5233827	1-1/2	30	8.250	8.250	8.250	2.000	2.000	13.000
5233828	2	15	9.500	9.500	9.500	2.000	2.000	15.000
5233829	2-1/2	18	10.500	10.500	10.500	3.000	2.250	16.500
5233830	3	14	13.000	13.000	13.000	3.125	2.500	20.375
5233831	3-1/2	12	15.000	15.000	15.000	3.250	3.250	23.500
5233832	4	10	16.000	16.000	16.000	3.375	3.250	25.125
5233835	5	30*	24.000	24.000	24.000	3.625	4.250	37.625
5233834	6	25*	30.000	30.000	30.000	3.750	5.000	47.125

* Pallet Quantity
Dimensions are nominal

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°



RIGID NONMETALIC SCH. 40 ELBOWS - STANDARD RADIUS

N.T.S.

Meets specifications of UL 651 and NEMA TC2
Rated for 90°C Cable
Sunlight Resistant
10' Lengths

Nonmetallic PVC Schedule 40 Conduit
Belled End - 10' Lengths

Part No.	Size	Feet per Pack	T Min	OD	ID Min	E	B	D Nom	L Min
A52AE12	1/2	6,000	.109	.840	.578	.852	.836	1.500	120
A52AE12H	1/2	3,000	.109	.840	.578	.852	.836	1.500	120
A52AG12	3/4	4,400	.113	1.050	.780	1.064	1.046	1.750	120
A52AG12H	3/4	2,200	.113	1.050	.780	1.064	1.046	1.750	120
A52BA12	1	3,600	.133	1.315	1.004	1.330	1.310	2.000	120
A52BA12H	1	1,800	.133	1.315	1.004	1.330	1.310	2.000	120
A52BC12	1-1/4	3,300	.140	1.660	1.335	1.677	1.655	2.250	120
A52BC12H	1-1/4	1,650	.140	1.660	1.335	1.677	1.655	2.250	120
A52BE12	1-1/2	2,250	.145	1.900	1.564	1.918	1.894	2.500	120
A52BE12H	1-1/2	900	.145	1.900	1.564	1.918	1.894	2.500	120
A52CA12	2	1,400	.154	2.375	2.021	2.393	2.369	3.000	120
A52CE12	2-1/2	930	.203	2.875	2.414	2.890	2.868	3.250	120
A52DA12	3	880	.216	3.500	3.008	3.515	3.492	3.750	120
A52DE12	3-1/2	630	.226	4.000	3.486	4.015	3.992	4.000	120
A52EA12	4	570	.237	4.500	3.961	4.515	4.491	4.500	120
A52FA12	5	380	.258	5.563	4.975	5.593	5.553	5.500	120
A52GA12	6	260	.280	6.625	5.986	6.658	6.614	6.125	120
A52JA12*	8	180	.322	8.625	7.853	8.670	8.610	6.375	120

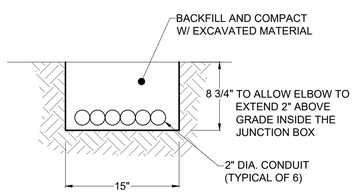
* Not ETL Listed
Dimensions are nominal

Note: 20' length available on request
Schedule 40 conduit complies with federal and military specifications by conforming to UL 651

CANTEX INC. 301 COMMERCE STE. 2700 FORT WORTH, TEXAS 76102 817-215-7000 FAX: 817-215-7001 www.cantexinc.com CANTEX 97

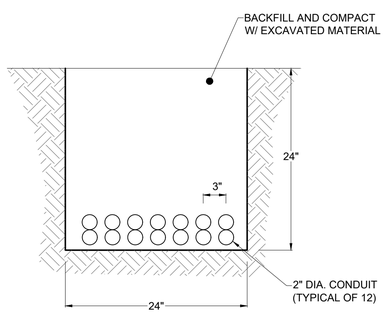
RIGID NONMETALIC SCHEDULE 40 CONDUIT

N.T.S.



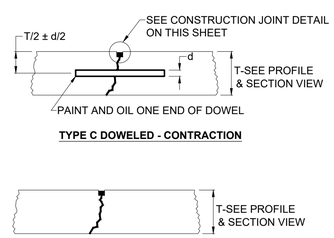
TRENCH DETAIL 1

N.T.S.



TRENCH DETAIL 2

N.T.S.

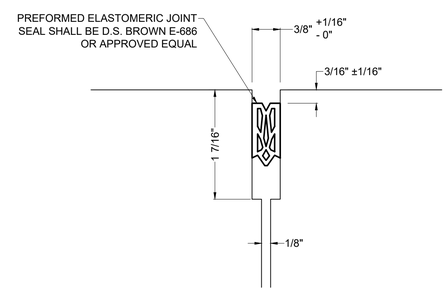


NOTES:

1. BLACK SHADED AREA IS JOINT SEALER.
2. GROOVE MAY BE FORMED OR SAWED.
3. EARLY ENTRY SAW CUTS TO BE CUT MINIMUM OF 7/8" X 1/8" WIDE.
4. FINAL SAW CUT TO BE 1/3" X 1/8" WIDE.

JOINTING FOR RIGID PAVEMENT

N.T.S.



PREFORMED JOINT SEAL TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

JOINT SEAL DETAIL

N.T.S.

NO.	REVISIONS	DATE	BY	CHK	APR

GENERAL DYNAMICS
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NEW JERSEY 08234
PHONE: (609) 677-8543

FOR

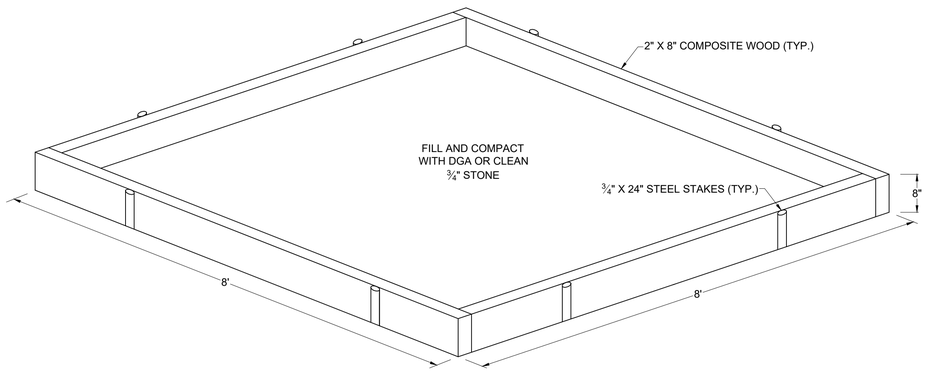
NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	J.Z. / J.G.	
FAA APPROVAL DATE:		

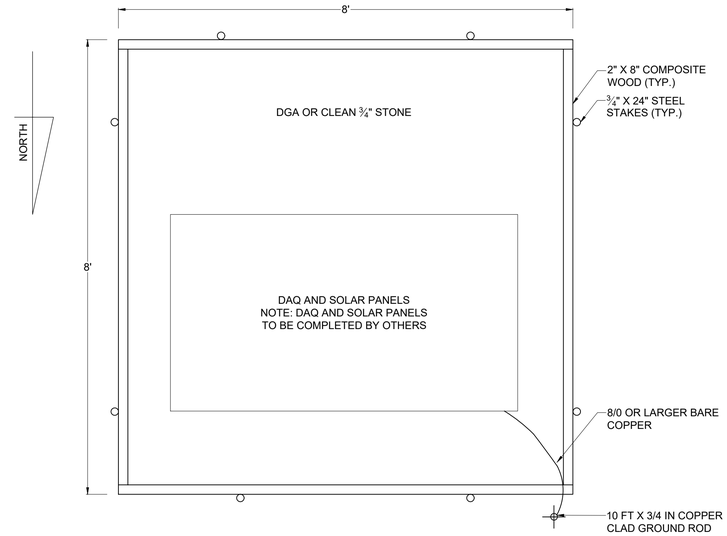
REFLECTIVE CRACKING OUTDOOR
PHASE I - AS-BUILT
CONSTRUCTION DETAILS

PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 9 OF 17

CAD FILE: REFL-CRACK-OUT1-DTLS-ABLT.DWG



ISOMETRIC VIEW

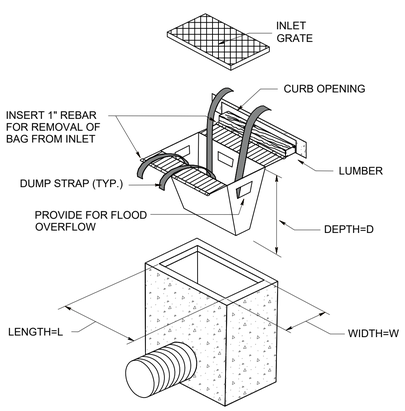


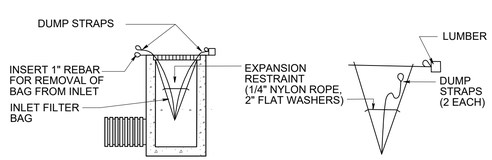
PLAN VIEW

PHOTOGRAPH

STONE PAD DETAIL

N.T.S.



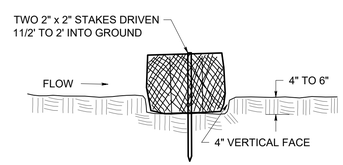


INSTALLATION DETAIL **BAG DETAIL**

INLET FILTER DETAIL

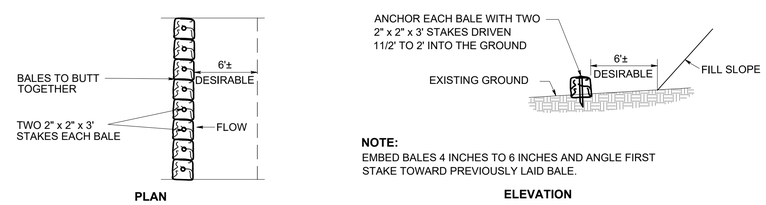
N.T.S.

*OR APPROVED EQUAL



EMBEDDING DETAIL

N.T.S.



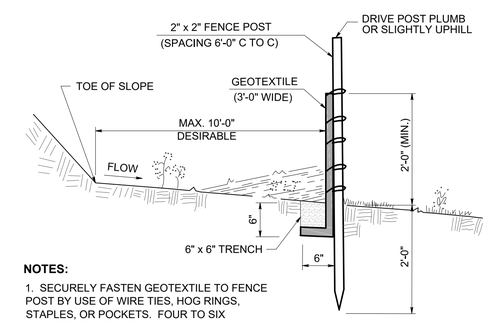
PLAN

NOTE:
EMBED BALES 4 INCHES TO 6 INCHES AND ANGLE FIRST STAKE TOWARD PREVIOUSLY LAID BALE.

ELEVATION

HAY BALES

N.T.S.



NOTES:

1. SECURELY FASTEN GEOTEXTILE TO FENCE POST BY USE OF WIRE TIES, HOG RINGS, STAPLES, OR POCKETS. FOUR TO SIX FASTENERS PER POST.
2. BURY BOTTOM 1'-0" OF GEOTEXTILE AND TAMP IN PLACE.
3. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. DO NOT SPLICE INDIVIDUAL ROLLS AT LOW POINTS.
4. SET SILT FENCE WITHIN PROJECT LIMITS. 10'-0" IS DESIRABLE.

SILT FENCE

N.T.S.

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FOR

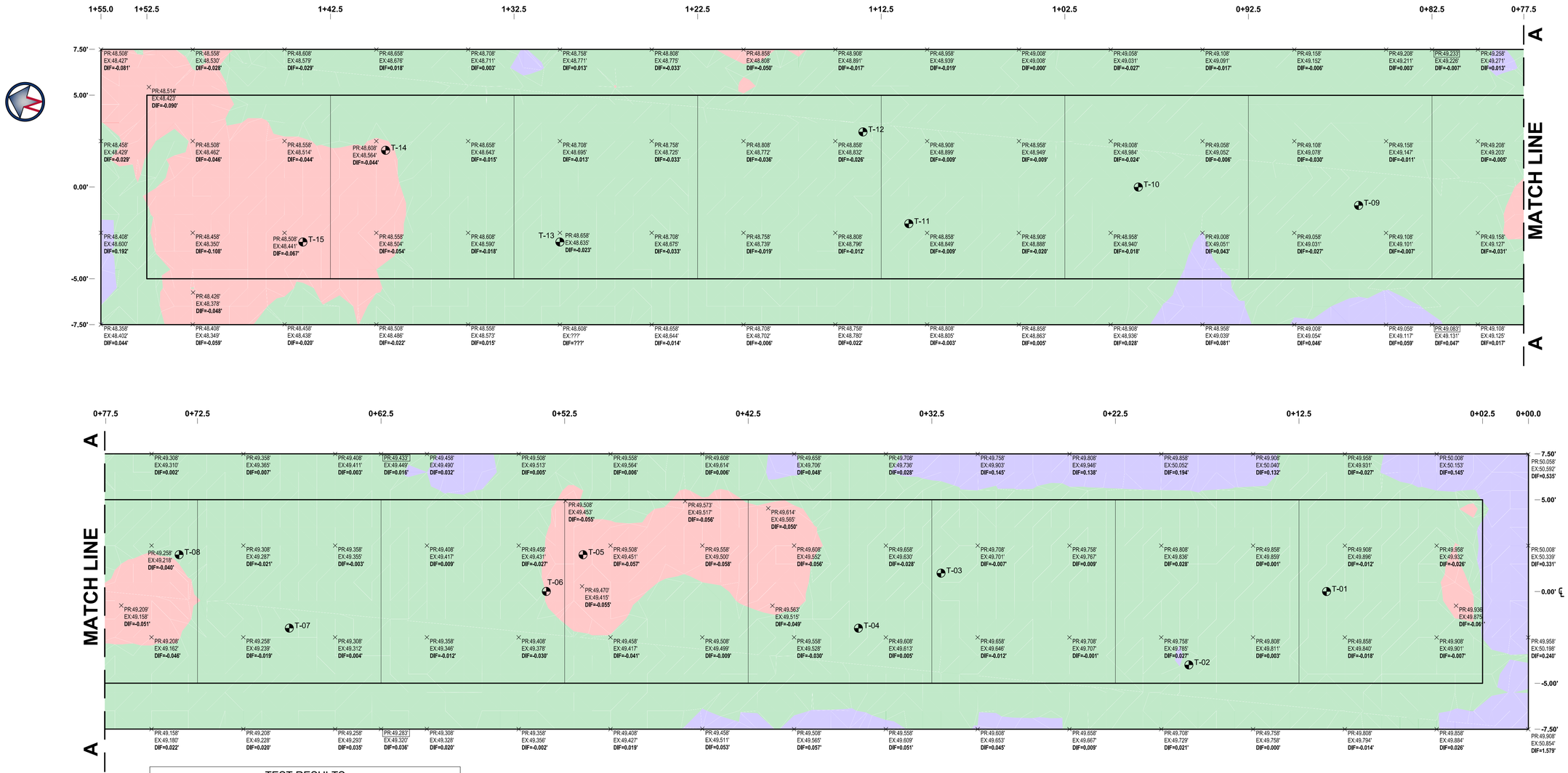
NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	J.Z. / J.G.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR
PHASE I - AS-BUILT
CONSTRUCTION DETAILS

PROJECT NO: | SIZE: ANSI D | SCALE: AS NOTED | SHEET 10 OF 17

CAD FILE: REFL-CRACK-OUT1-DTLS-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'

TEST RESULTS					
ID	STA.	OFF.	DRY DENSITY	PERCENT COMPACTION	PERCENT MOISTURE
T-01	0+11.0	0.0	120.2	95.6	11.7
T-02	0+18.5	-4.0	116.9	93.0	12.7
T-03	0+32.0	1.0	117.7	83.6	11.4
T-04	0+36.5	-2.0	121.6	96.7	13.0
T-05	0+51.5	2.0	114.7	91.2	5.2
T-06	0+53.5	0.0	112.6	89.6	6.3
T-07	0+67.5	-2.0	119.8	95.3	11.8
T-08	0+73.5	2.0	121.7	96.8	11.5
T-09	0+86.5	-1.0	121.6	96.7	13.1
T-10	0+98.5	0.0	121.5	96.7	10.8
T-11	1+11.0	-2.0	121.3	96.5	9.6
T-12	1+13.5	3.0	122.1	97.1	9.7
T-13	1+30.0	-3.0	121.9	97.0	8.1
T-14	1+39.5	2.0	124.0	98.6	7.3
T-15	1+44.0	-3.0	120.8	96.1	6.5

* TEST PERFORMED ON 6/28/2018
* PROCTOR VALUE OF 125.7 pcf AND 8.9% MOISTURE.

3' 2' 1' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

CUT (+) AND FILL (-) SUMMARY TABLE				
ID	COLOR	MIN. [FT]	MAX. [FT]	AREA [SQ. FT]
1		-0.113	-0.042	265.09
2		-0.042	0.042	1925.01
3		0.042	0.956	134.87

LEGEND:

- ◔ - TEST LOCATION
- x - SPOT ELEVATION
- PR - PROPOSED ELEVATION
- EX - EXISTING ELEVATION
- DIF - DIFFERENCE IN ELEVATION
- GRADE TOLERANCE: ± 0.042'(½")
- CONFORMING ELEVATION
- ELEVATION BELOW THE CONFORMANCE RANGE
- ELEVATION ABOVE THE CONFORMANCE RANGE

NO.	REVISIONS	DATE	BY	CHK	APR

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Information Technology
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PHONE: (609) 677-8543

FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

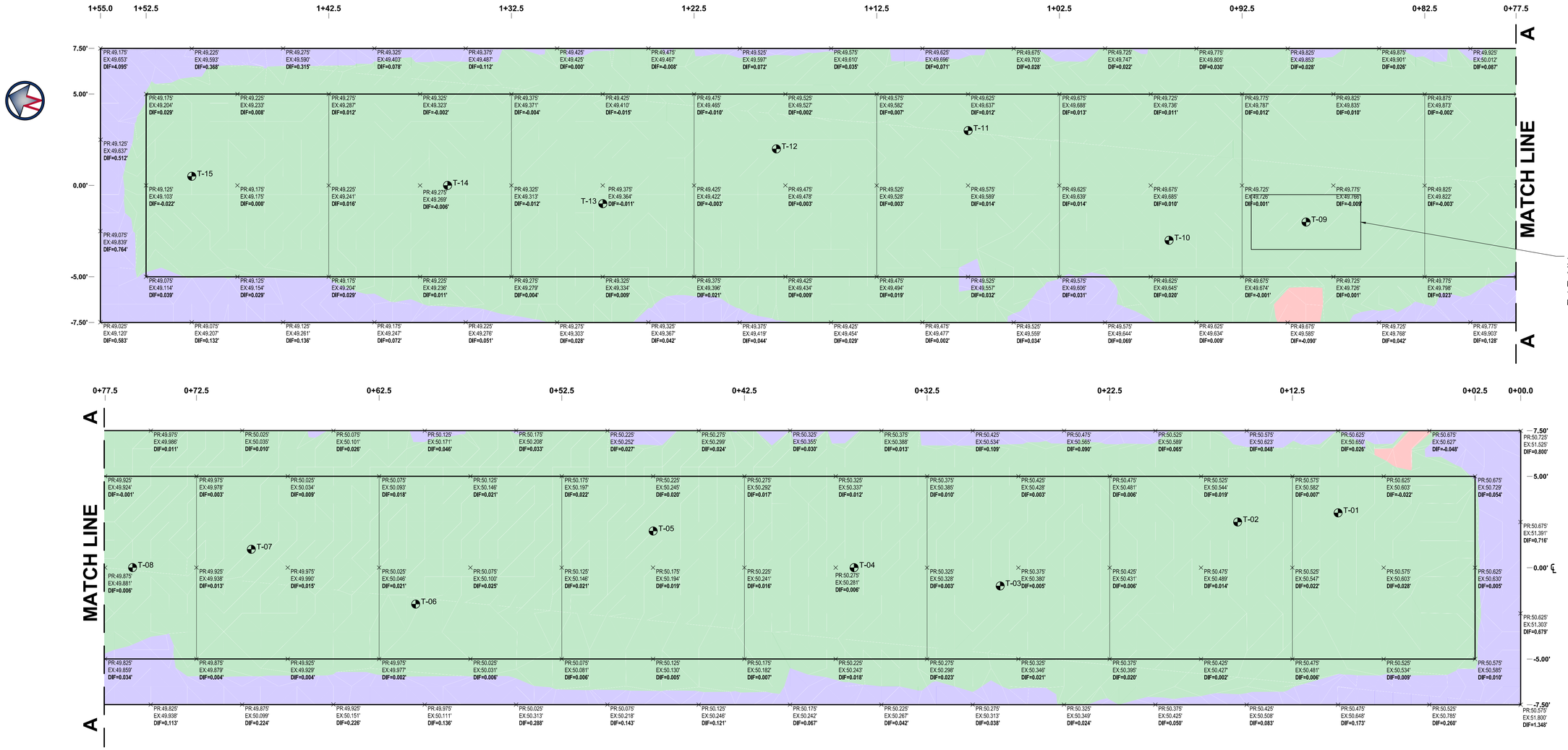
	NAME	DATE
DRAWN	M. MAZUREK	08/10/2018
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT SUBGRADE ELEVATION MAP

PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 11 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'

TEST RESULTS					
ID	STA.	OFF.	DRY DENSITY	PERCENT COMPACTION	PERCENT MOISTURE
T-01	0+10.0	+3.0	135.4	103.5	7.3
T-02	0+15.5	+2.5	131.2	100.3	7.8
T-03	0+28.5	-1.0	131.7	100.7	7.8
T-04	0+36.5	0.0	133.0	101.7	8.3
T-05	0+47.5	+2.0	134.9	103.1	7.2
T-06	0+60.5	-2.0	134.3	102.7	6.7
T-07	0+69.5	+1.0	132.9	101.6	6.8
T-08	0+76.0	0.0	135.5	103.6	6.7
T-09	0+89.0	-2.0	133.3	101.9	8.5
T-10	0+96.5	-3.0	135.0	103.2	7.1
T-11	1+07.5	+3.0	132.3	101.1	7.6
T-12	1+18.0	+2.0	134.2	102.6	7.5
T-13	1+27.5	-1.0	131.6	100.6	7.7
T-14	1+36.0	0.0	133.3	101.9	7.2
T-15	1+50.0	+0.5	131.9	100.8	7.3

* TEST PERFORMED ON 7/17/2018
* PROCTOR VALUE OF 130.8 pcf AND 7.2% MOISTURE.

3' 2' 1' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

CUT (+) AND FILL (-) SUMMARY TABLE				
ID	COLOR	MIN. [FT]	MAX. [FT]	AREA [SQ. FT]
1		-0.244	-0.031	7.54
2		-0.031	0.031	2029.48
3		0.031	1.495	287.95

LEGEND:

- TEST LOCATION
- x - SPOT ELEVATION
- PR - PROPOSED ELEVATION
- EX - EXISTING ELEVATION
- DIF - DIFFERENCE IN ELEVATION
- GRADE TOLERANCE: ± 0.031' (3/8")
- CONFORMING ELEVATION
- ELEVATION BELOW THE CONFORMANCE RANGE
- ELEVATION ABOVE THE CONFORMANCE RANGE

NO.	REVISIONS	DATE	BY	CHK	APR

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PHONE: (609) 677-8543

FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

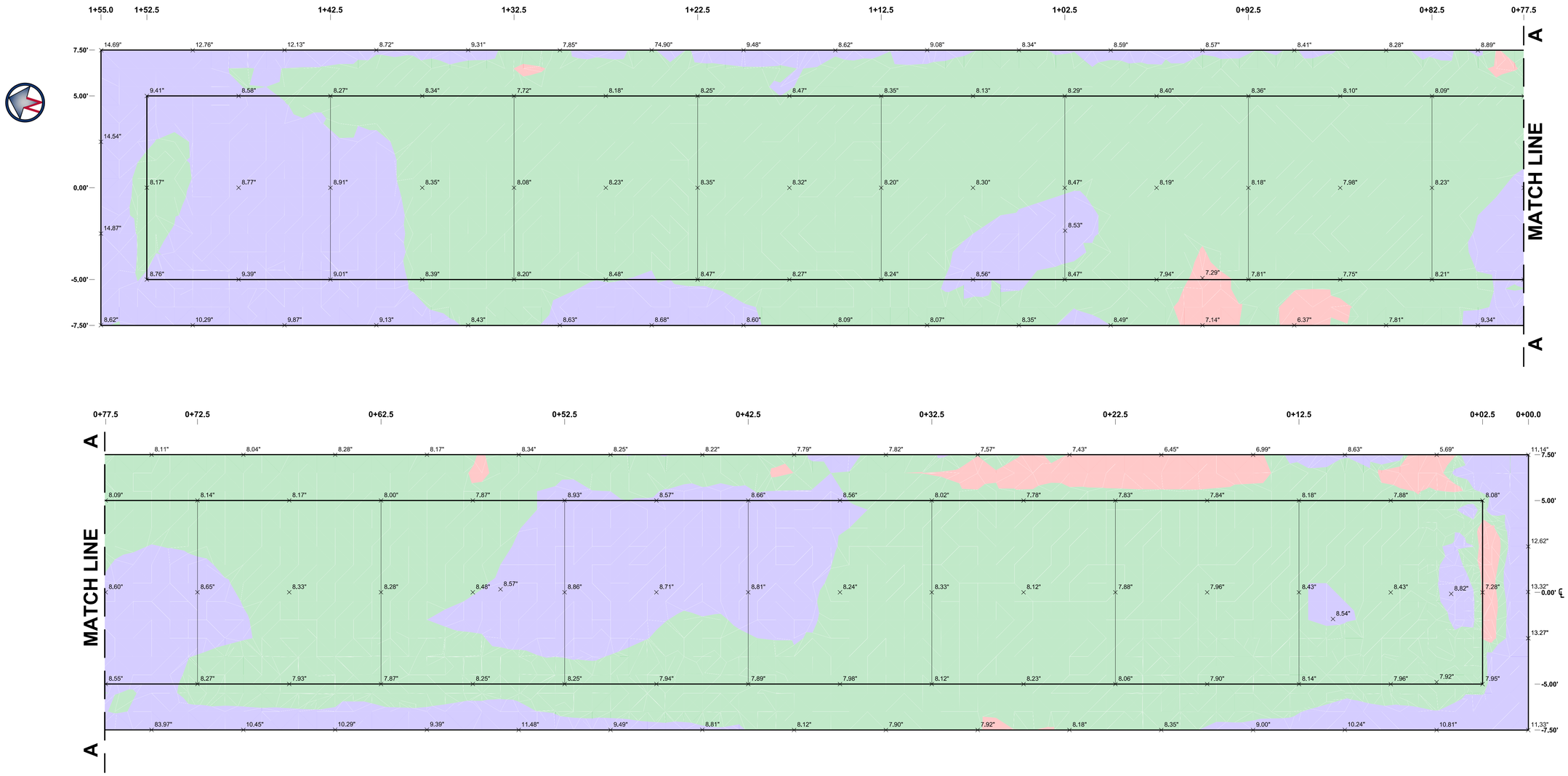
	NAME	DATE
DRAWN	M. MAZUREK	12/11/2018
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT
P-154 ELEVATION MAP

PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 12 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'

3' 2' 1' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

THICKNESS MAP LEGEND				
ID	MIN. THICKNESS [FT]	MAX. ELEVATION [FT]	AREA [SQ. FT]	COLOR
1	0.388'	0.625'	61.81	
2	0.625'	0.708'	1658.14	
3	0.708'	1.828'	604.99	

LEGEND:

x - THICKNESS LABEL

TARGET THICKNESS: 8"±$\frac{1}{2}$" (0.667±0.042')

THICKNESS TOLERANCE: ± 0.042' ($\frac{1}{2}$")

CONFORMING THICKNESS

THICKNESS BELOW THE CONFORMANCE RANGE

THICKNESS ABOVE THE CONFORMANCE RANGE

NO.	REVISIONS	DATE	BY	CHK	APR

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PHONE: (609) 677-8543

FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	12/11/2018
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

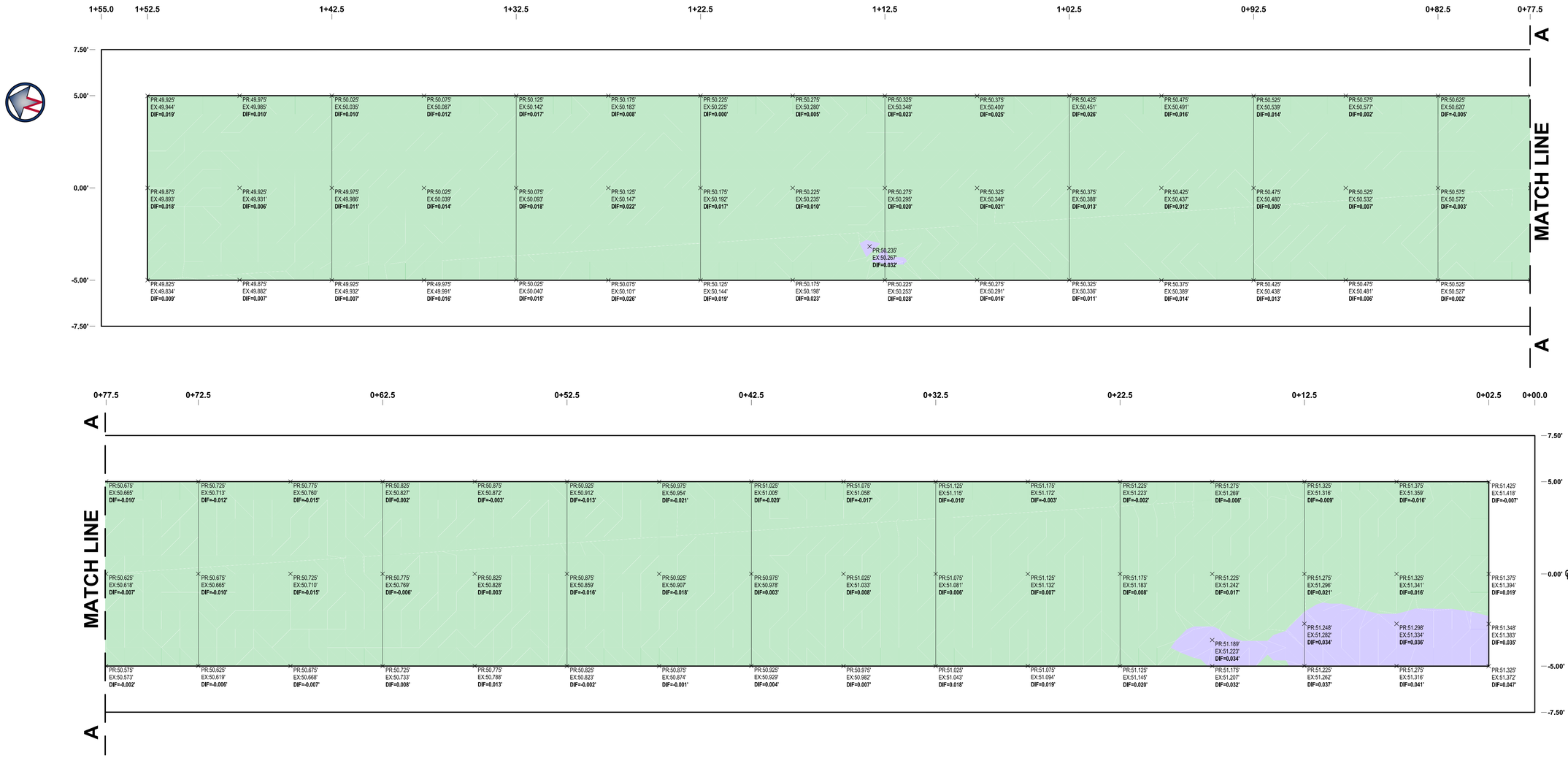
REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT

P-154 THICKNESS MAP

PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 13 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'

3' 2' 1' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

CUT (+) AND FILL (-) SUMMARY TABLE				
ID	COLOR	MIN. [FT]	MAX. [FT]	AREA [SQ. FT]
1		-0.027	0.031	1456.41
2		0.031	0.048	43.60

LEGEND:

x - SPOT ELEVATION

PR - PROPOSED ELEVATION

EX - EXISTING ELEVATION

DIF - DIFFERENCE IN ELEVATION

GRADE TOLERANCE: ± 0.031' (3/8")

CONFORMING ELEVATION

ELEVATION BELOW THE CONFORMANCE RANGE

ELEVATION ABOVE THE CONFORMANCE RANGE

NO.	REVISIONS	DATE	BY	CHK	APR

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NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	04/02/2019
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

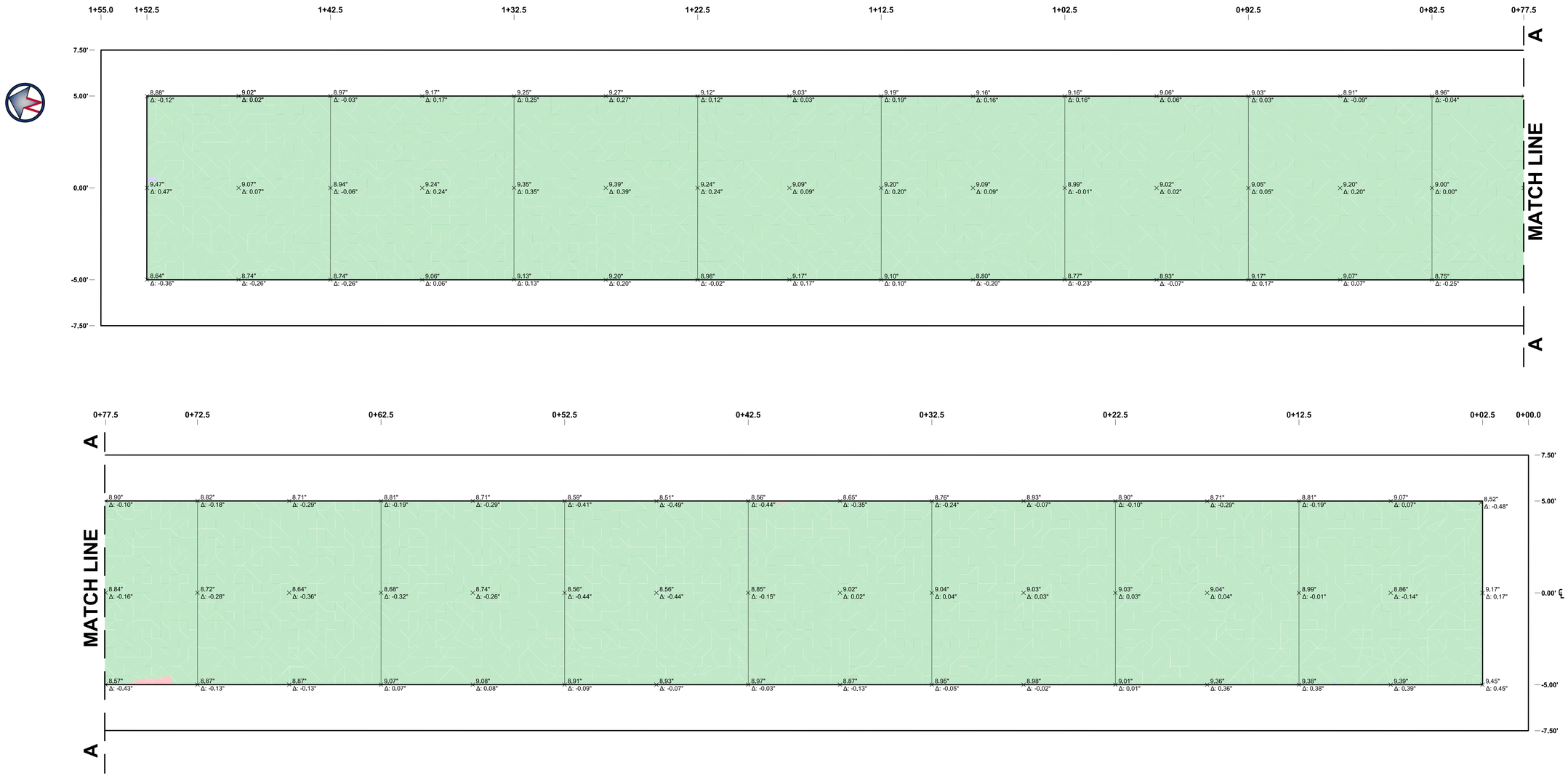
REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT

P-501 ELEVATION MAP

PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 14 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'

3' 2' 1' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

THICKNESS MAP LEGEND				
ID	MIN. THICKNESS [FT]	MAX. ELEVATION [FT]	AREA [SQ. FT]	COLOR
1	0.689'	0.708'	0.86	
2	0.708'	0.792'	1498.98	
3	0.792'	0.793'	0.16	

LEGEND:

x - THICKNESS LABEL

TARGET THICKNESS: 9"±½" (0.750'±0.042')

THICKNESS TOLERANCE: ±½" (0.042')

CONFORMING THICKNESS 8.50" - 9.50" (0.708'-0.792')

THICKNESS BELOW THE CONFORMANCE RANGE <8.50" (0.708')

THICKNESS ABOVE THE CONFORMANCE RANGE >9.50" (0.792')

NO.	REVISIONS	DATE	BY	CHK	APR

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NEW JERSEY 08234
PHONE: (609) 677-8543

FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	04/02/2019
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

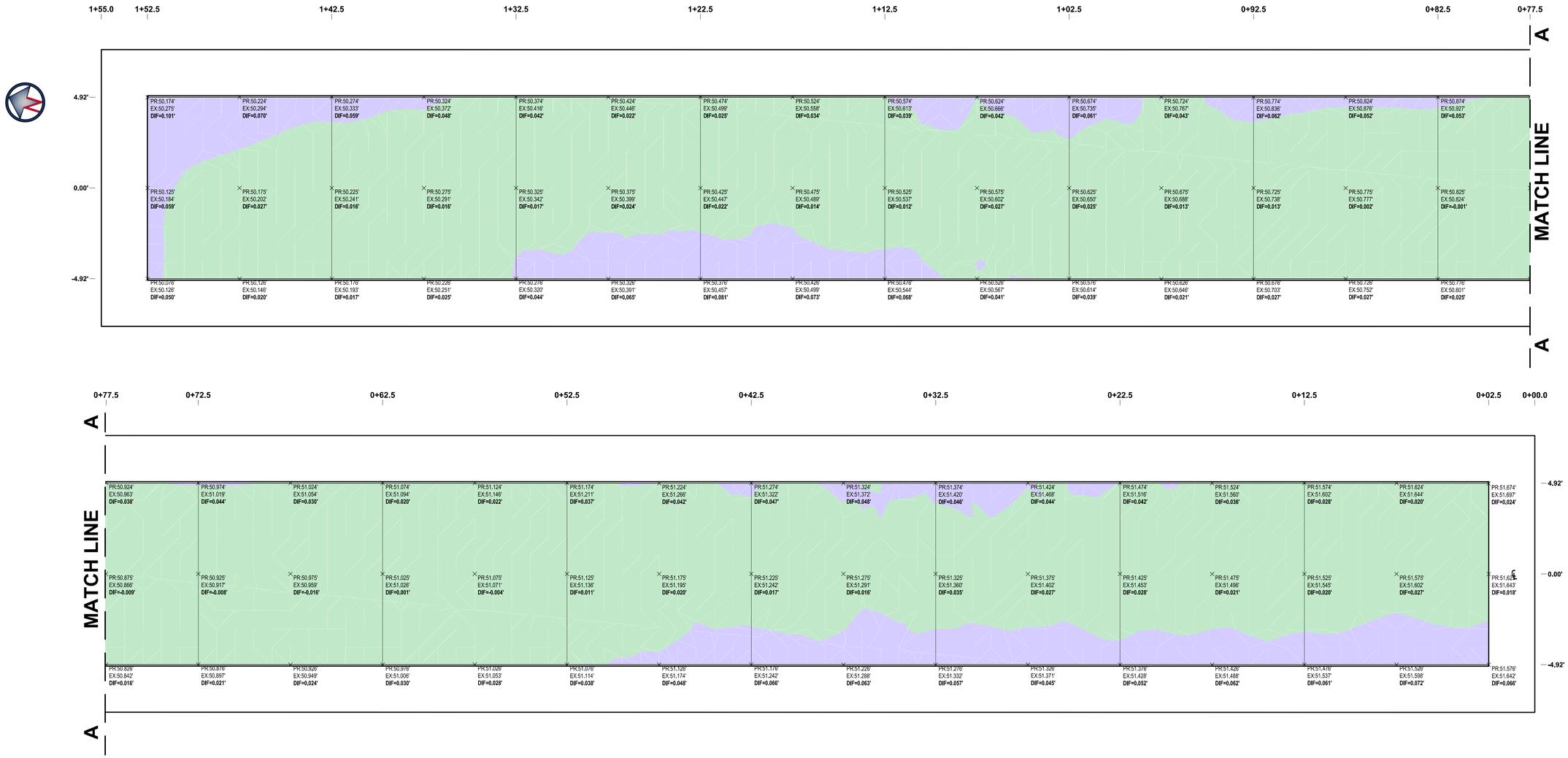
REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT

P-501 THICKNESS MAP

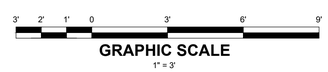
PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 15 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'



CUT (+) AND FILL (-) SUMMARY TABLE				
ID	COLOR	MIN. [FT]	MAX. [FT]	AREA [SQ. FT]
1		-0.016	0.042	1257.01
2		0.042	0.101	218.99

LEGEND:

x - SPOT ELEVATION

PR - PROPOSED ELEVATION

EX - EXISTING ELEVATION

DIF - DIFFERENCE IN ELEVATION

GRADE TOLERANCE: ± 0.042' ($\frac{1}{2}$")

CONFORMING ELEVATION

ELEVATION BELOW THE CONFORMANCE RANGE

ELEVATION ABOVE THE CONFORMANCE RANGE

NO.	REVISIONS	DATE	BY	CHK	APR

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Information Technology
200 DECADON DRIVE
EGG HARBOR TOWNSHIP
NEW JERSEY 08234
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NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

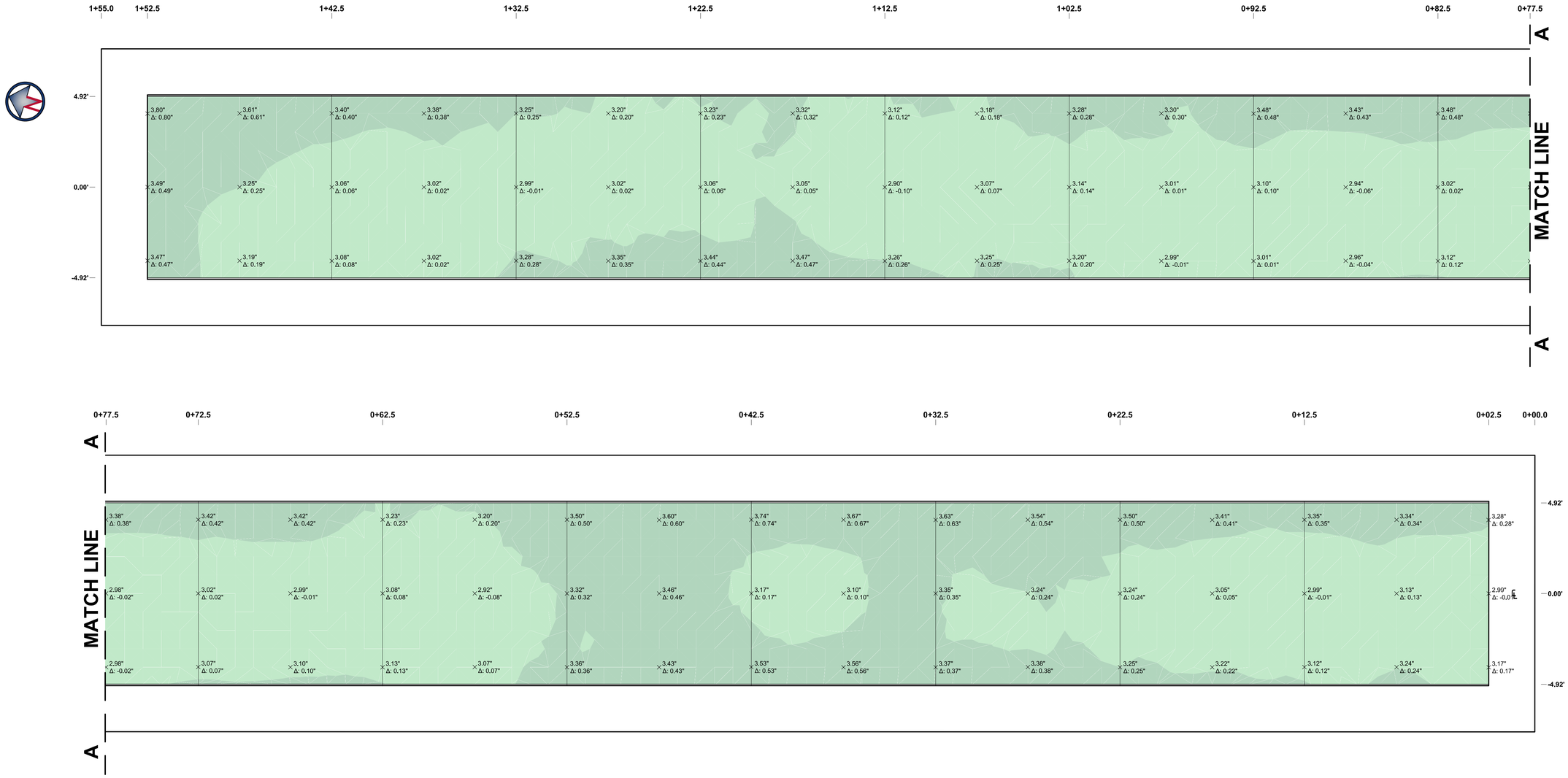
REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT

P-401 ELEVATION MAP

PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 16 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG



PLAN VIEW

SCALE: 1"=3'

3' 2' 1' 0 3' 6' 9'

GRAPHIC SCALE

1" = 3'

THICKNESS MAP LEGEND				
ID	MIN. THICKNESS [FT]	MAX. ELEVATION [FT]	AREA [SQ. FT]	COLOR
1	0.235'	0.271'	949.45	
2	0.271'	0.335'	526.55	

LEGEND:

x - THICKNESS LABEL

TARGET THICKNESS: 3" (0.250')

THICKNESS TOLERANCE: DEFICIENCY SHALL NOT BE MORE THAN $\frac{1}{4}$" (0.021')

CONFORMING THICKNESS 2.75" - 3.25" (0.229'-0.271')

CONFORMING THICKNESS >3.25" (0.271')

THICKNESS BELOW THE CONFORMANCE RANGE <2.75" (0.229')

NO.	REVISIONS	DATE	BY	CHK	APR

GENERAL DYNAMICS
Information Technology
200 DECADON DRIVE
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NEW JERSEY 08234
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FOR

NATIONAL AIRPORT PAVEMENT TEST FACILITY
ATLANTIC CITY AIRPORT
NEW JERSEY 08234

	NAME	DATE
DRAWN	M. MAZUREK	07/19/2019
CHECKED	H.Y. / K.H.	
FAA APPROVAL DATE:		

REFLECTIVE CRACKING OUTDOOR

PHASE I - AS-BUILT
P-401 THICKNESS MAP

PROJECT NO: | SIZE: ANSI D | SCALE: 1"=3' | SHEET 17 OF 17

CAD FILE: REFL-CRACK-OUT1-CONF-ABLT.DWG