



ROOFING WORKSHOP

February 11, 2020

ROOFING PROGRAM OVERVIEW

TOTAL TIME AND COST LINKED DIRECTLY TO:

SCOPE OF WORK

STANDARDS OF QUALITY

CAPACITY OF THE MARKET

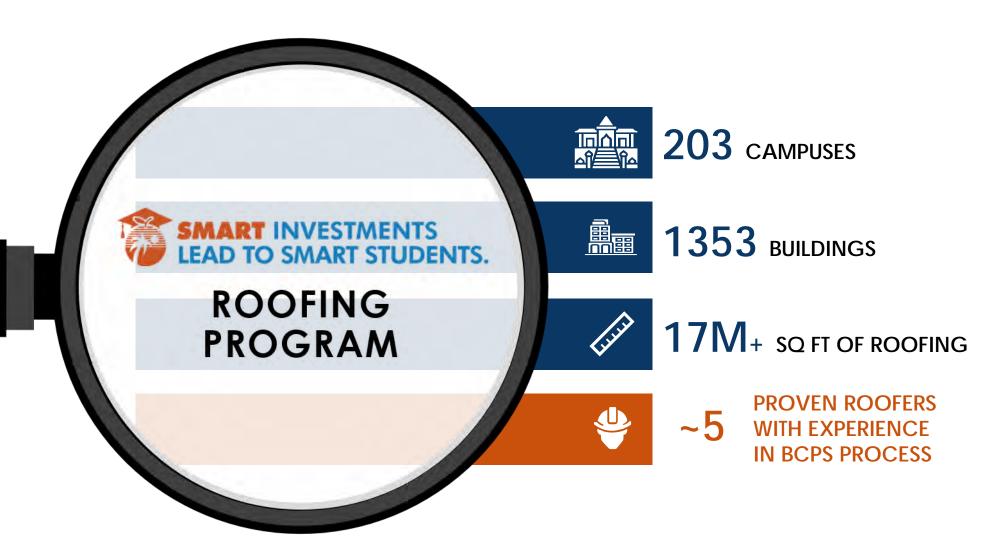


SCOPE – KEY CONSIDERATIONS



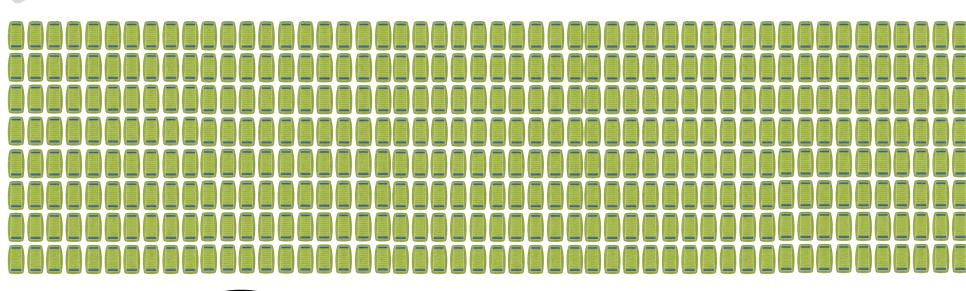


EXTENT OF COVERAGE





THE MAGNITUDE





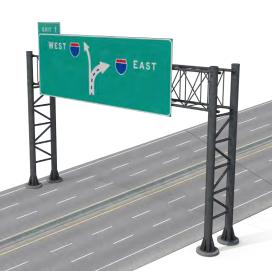




400 ACRES



THE MAGNITUDE





17M+ SQ FT OF ROOFING OR

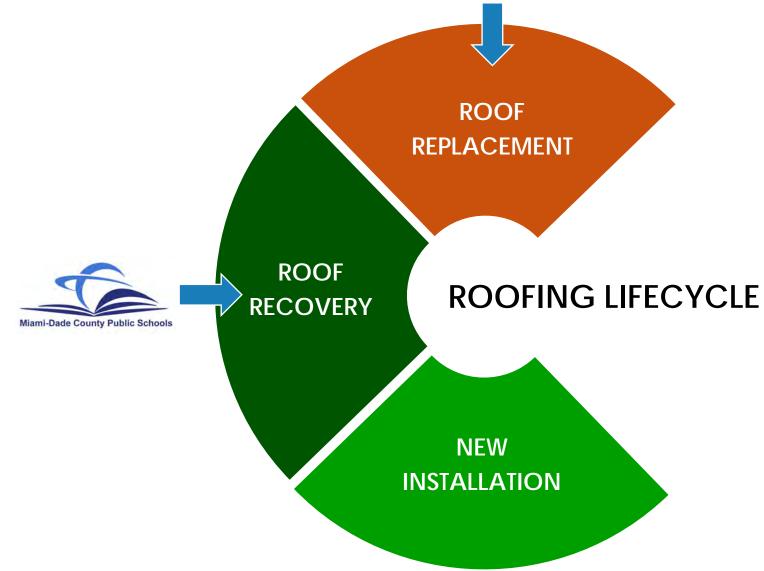


11 MILES OF A 300' WIDE EXPRESSWAY



LEVELS OF COMPLEXITY

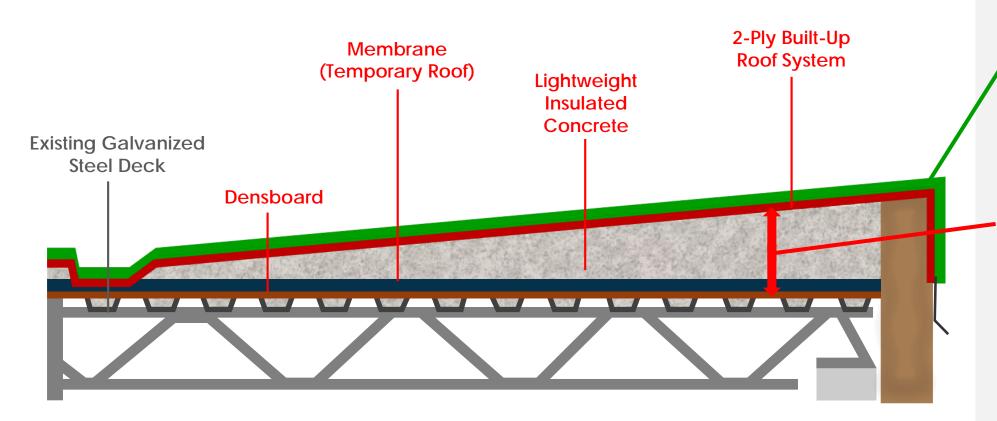






UNDER THE SURFACE (ROOFING 101)

TYPES OF ROOFING WORK



RECOVERY

NEW 2-PLY MEMBRANE OVER EXISTING SYSTEM

REPLACEMENT

DEMO DOWN TO EXISTING LIGHTWEIGHT OR THE DECK AND REPLACE WITH NEW ROOF ASSEMBLY





QUALITY – KEY CONSIDERATIONS





QUALITY STANDARDS

QA/QC



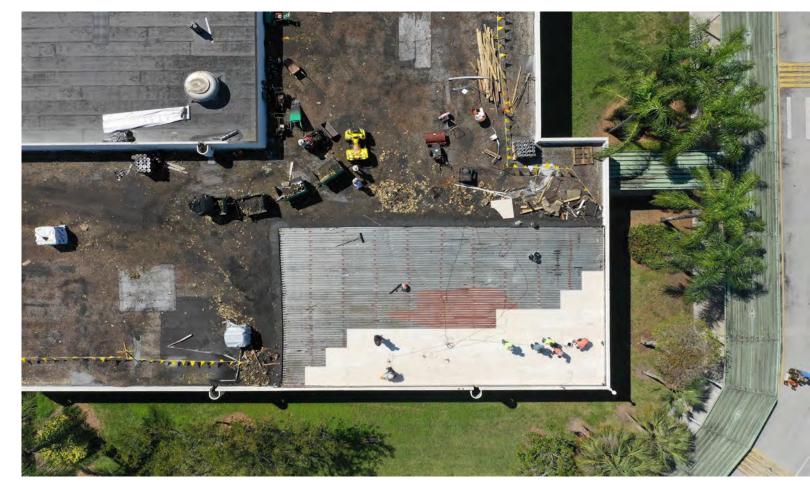
THOROUGH INSPECTIONS



FULL CODE COMPLIANCE



LONG LIFECYCLE APPROACH





WORK IN PROGRESS



IN PROGRESS
DOES NOT MEET QUALITY STANDARDS

MEETS QUALITY STANDARDS



WORK IN PROGRESS









IN PROGRESS
DOES NOT MEET QUALITY STANDARDS

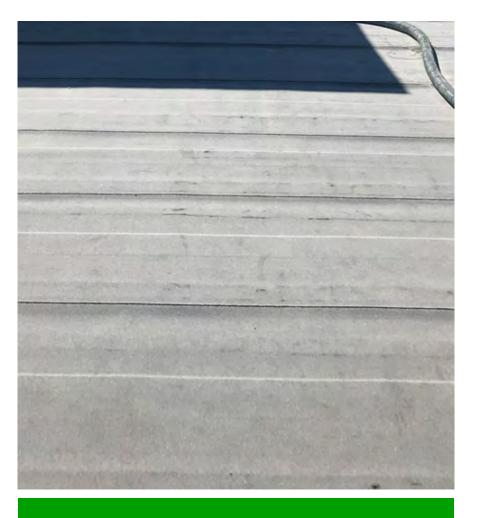
MEETS QUALITY STANDARDS



WORK IN PROGRESS



IN PROGRESS
DOES NOT MEET QUALITY STANDARDS



MEETS QUALITY STANDARDS



WORK IN PROGRESS





BEFORE

AFTER









BEFORE

DURING

AFTER







BEFORE

COST QUALITY

GETTING IT DONE RIGHT

SCOPE



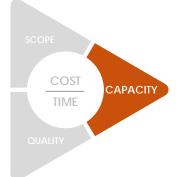


BEFORE

AFTER

CAPACITY - KEY CONSIDERATIONS





HIRING CHALLENGES













BADGING REQUIREMENTS



DIFFICULTY OF EFFORT

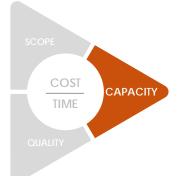


HARSH WORK CONDITIONS



PROCESS COMPLEXITIES

RELUCTANCE TO WORK ON BCPS SMART ROOFING PROJECTS



PERMIT ISSUES & DELAYS





NEW BCPS ROOFERS PERMIT REVIEW

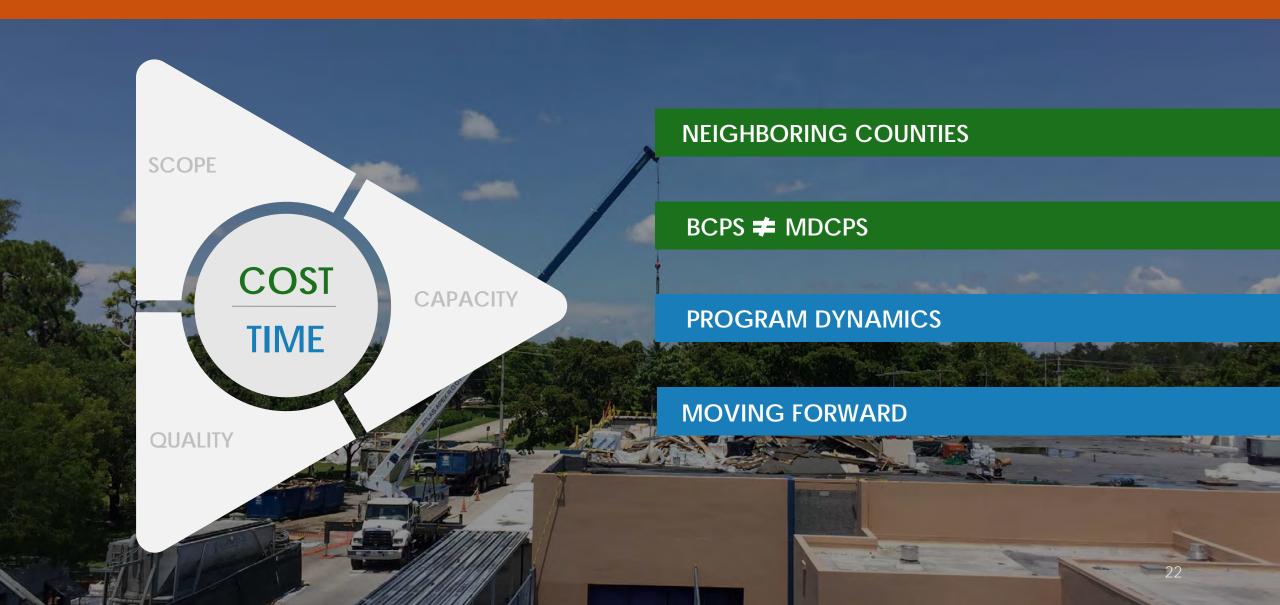




EXPERIENCED BCPS ROOFERS PERMIT REVIEW



COST & TIME – KEY CONSIDERATIONS





BCPS ≠ MDCPS





PRIOR ROOFING IMPROVEMENTS PROGRAM	NO	YES
ROOFING WORK MAJORITY	REPLACEMENT	RECOVERY
DELIVERY METHOD	VARIES (CMAR, HARD BID)	2014 FIXED TERM**
COST/SF ROOFER PRICING ONLY	\$20-23*	\$16-20*







VARIES	VARIES	VARIES
(CMAR, HARD BID)	(CMAR, HARD BID)	(CMAR, HARD BID)
\$21-23	\$20-\$25	\$22-25

^{*} Today's cost including inflation.

^{**} Expired Q1 2020, out to bid for renewal.





MOVING FORWARD





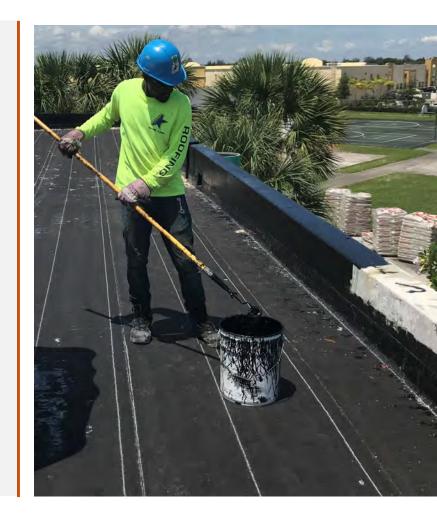


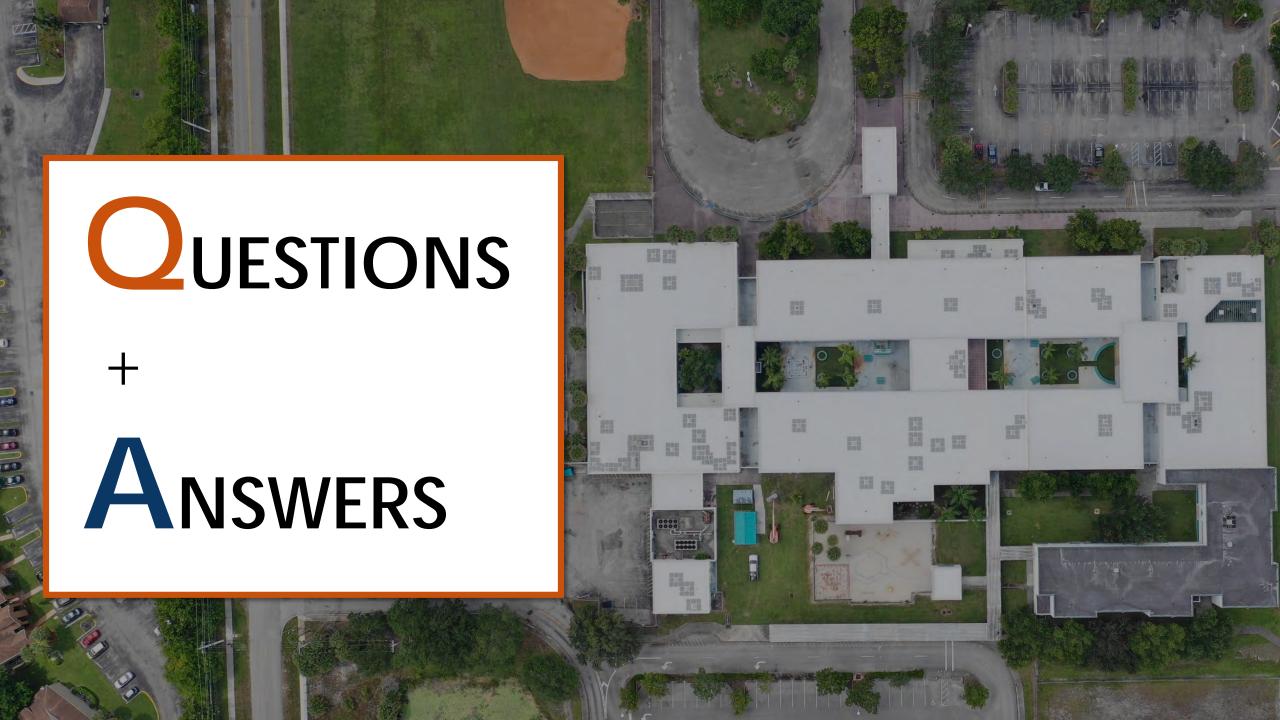
ROOFING MAINTENANCE PROGRAM

 The roofs that we replaced in 2007-2010 and were maintained have held up and are in good shape



- Facilities and PPO are working together to develop a maintenance plan for the new roofs being installed by the SMART Program
- Facilities and PPO are actively receiving presentations from maintenance companies to obtain recommendations to move forward





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