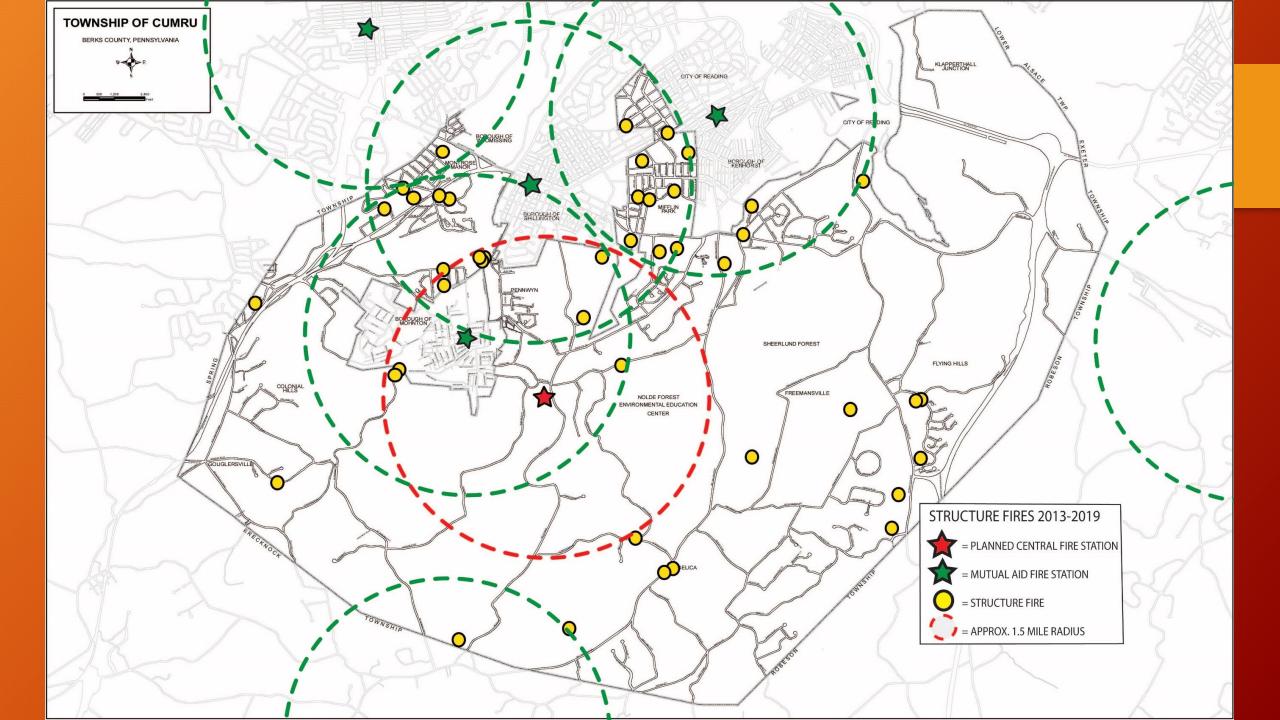
FUTURE CENTRAL FIRE STATION

PRESENTATION MAY 29, 2018 UPDATE SEPTEMBER 5, 2019

DEMONSTRATING THE NEED FOR FIRE PROTECTION IN CUMRU TOWNSHIP

MAP ON NEXT SLIDE:

- STRUCTURE FIRES ONLY
- PAST 6 YEARS
- USES 1.5 MILE RADIUS WITHOUT ANALYSIS OF ROADS
- TWO FATALITIES



ESTABLISHING NEEDS OF THE DEPARTMENT

- FIRE STUDY 2011
- STRATEGIC PLAN 2016-2020
- STATION 2 (CEDAR TOP STATION)

ONLY STATION OWNED BY TOWNSHIP - OTHER STATIONS LEASED

110+ YEARS OLD, WITH MAINTENANCE CONCERNS

DOES NOT MEET NEEDS OF VOLUNTEERS

DOES NOT HAVE DECONTAMINATION FACILITIES

CANNOT HOUSE ALL APPARATUS

PROGRAMMING NEEDS INITIALLY IDENTIFIED

- DECONTAMINATION FACILITIES
- BAYS FOR CURRENT AND FUTURE APPARATUS
- STORAGE FOR VARIOUS EQUIPMENT
- TRAINING ROOM
- OFFICES
- BUNK ROOMS
- DAY ROOM
- FITNESS ROOM
- STUDY ROOM

DETERMINING LOCATION OF STATION

- STUDY OF FOUR LOCATIONS 2016
- DEVELOPED MATRIX OF SITE CHARACTERISTICS NEXT SLIDE
- CONCLUSION: BEST LOCATION FOR FUTURE FIRE STATION IS ON THE TOWNSHIP CAMPUS

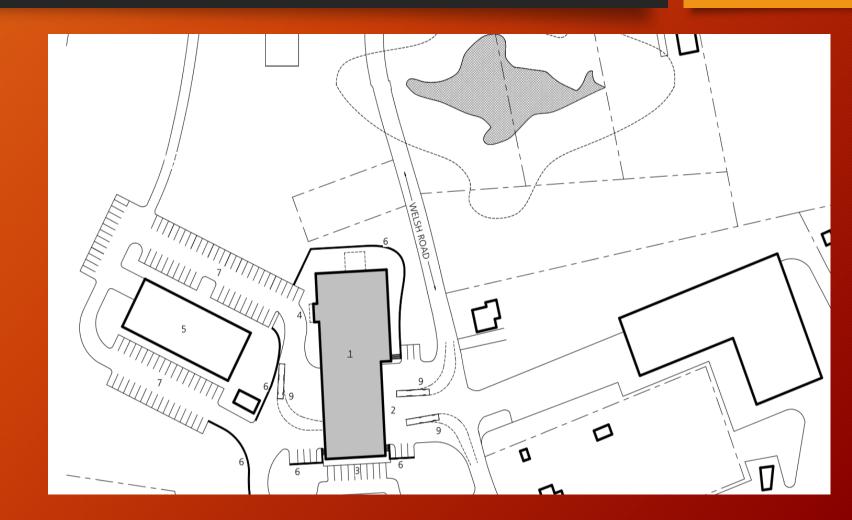
STATE OF THE PARTY	Cumru Township Fire Station Site Selection Matrix							
	Possible Fire Station Sites							
	Site Selection Considerations	Impact Type		Reading Health	Township Campus	Christmas Tree Farm	Developer Given	
				Flying Hills	Church/Welsh	Phil/High	Cedar Top Road	
1	CT owns the site	Cost		4	4	1	4	
2	Project could begin now on the site	Time & Cost		4	4	1	4	
3	Location of current CTFD membership pool	Operational & Service Delivery		1	4	1	1	
4	Location based on 3 year historical data provided	Operational & Service Delivery		1	3	3	3	
5	Usable portion of the site	Cost & Operational		3	3	3	2	
6	Parking Spaces: Staff, Hot & Membership	Cost & Operational		3	4	3	1	
7	Two ways in & out of site: Emergency & POV	Life Safety		2	3	2	2	
8	Highway Speed	Life Safety		1	3	2	3	
9	Sightlines: Speed, visible distance & crowning	Life Safety		1	3	2	2	
10	Noise from site to homes across the street	Goodwill		3	4	2	2	
11	Water near the site: Domestic or Well	Cost		4	2	4	4	
12	Sewer near the site	Cost		1	4	4	4	
13	Electrical Service Hazard/Relocation	Cost		2	4	2	2	
14	Site approach: Setback, T42 turning radius, off St.	Cost & Operational		3	4	3	1	
15	Site Prep: Fill, retaining walls, grading	Cost		3	4	2	1	
Scoring Legend	1 = Major Cost and/or Project Negative Impact. 4 = Minimal Cost and/or Project Negative Impact.		<u>36</u>	<u>53</u>	<u>35</u>	<u>36</u>		
	Suitability of Sites based on 2015 Conditions and Impacts			60.00%	88.33%	58.33%	60.00%	

CONCEPTUALIZING CAMPUS LAYOUT

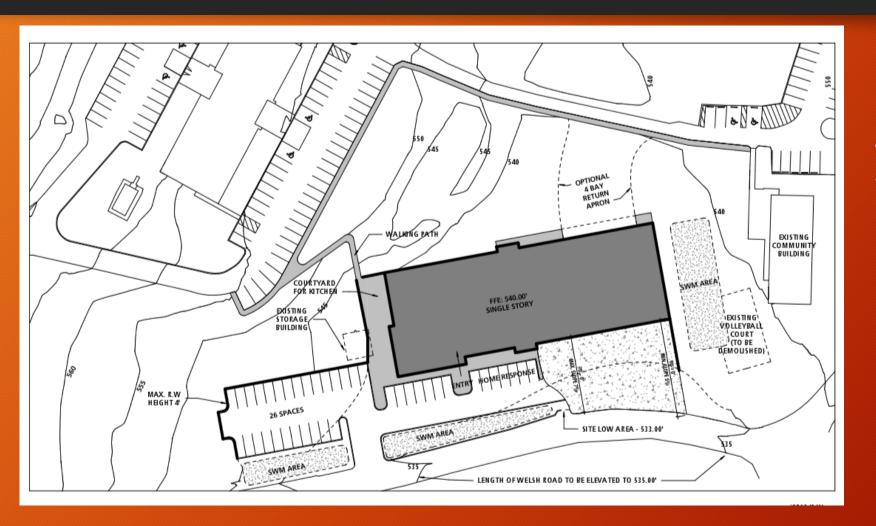
- WETLAND DELINEATION DONE
- MASTER PLAN / FEASIBILITY STUDY AUTHORIZED 2016
- REQUEST FOR QUALIFICATIONS FOR ARCHITECT TO CONDUCT MASTER PLAN
- DEVELOPMENT OF MASTER PLAN
- DEVELOPMENT OF OPTIONS FOR SPECIFIC SITE OF FIRE STATION ON TOWNSHIP CAMPUS

FIRST CAMPUS LAYOUT CHOSENN

GEOTECHNICAL STUDY ON THIS SITE SHOWED THAT IT WAS UNSUITABLE.



SECOND CAMPUS LAYOUT CHOSEN



GEOTECHNICAL STUDY ON THIS SITE SHOWED THAT IT IS SUITABLE, WITH CONDITIONS.

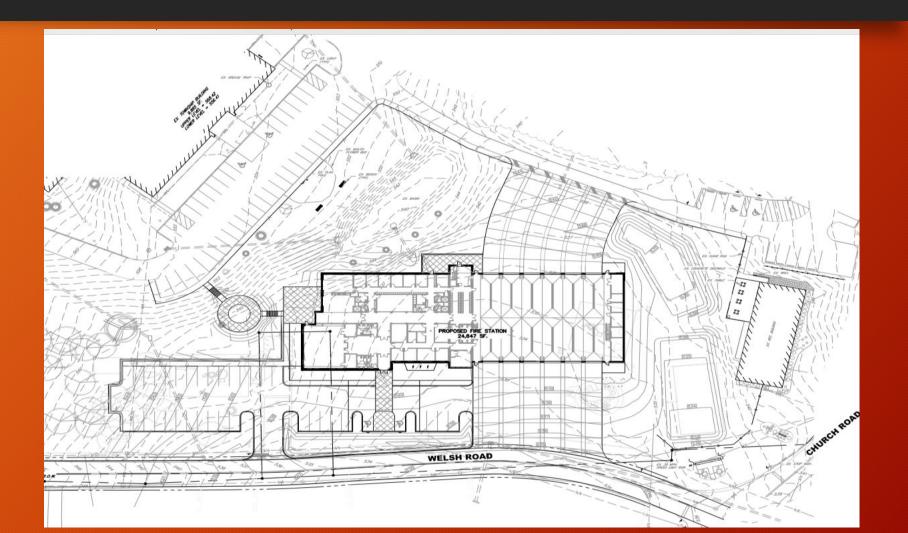
NOTES ABOUT CAMPUS LAYOUT

- CAN OPERATE OUT OF STATION 2 UNTIL OCCUPANCY (NOT HAVING TO DO PHASED CONSTRUCTION SAVES MONEY)
- ONE-STORY BUILDING (SAVES COST OF ELEVATORS AND STAIRWELLS)
- SUPPORT FROM PUBLIC WORKS AND TOWNSHIP INFRASTRUCTURE READILY AVAILABLE (MORE EFFICIENT)
- DURING CONSTRUCTION, RECREATION BUILDING CAN BE USED AS CONSTRUCTION ADMINISTRATION OFFICE (SAVES MONEY)
- TOWNSHIP-OWNED AREA ON EAST SIDE OF WELSH RD. CAN BE USED FOR CONSTRUCTION NEEDS

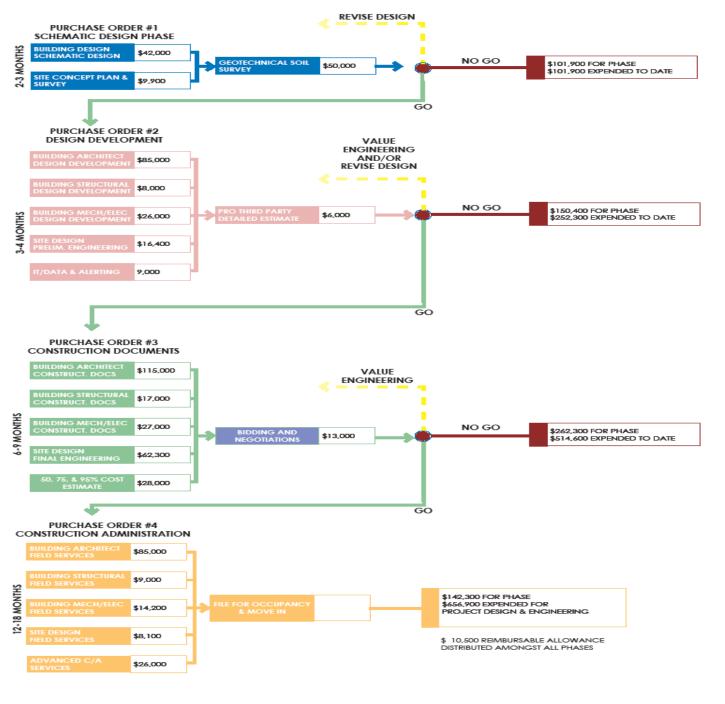
RELATED PROJECTS

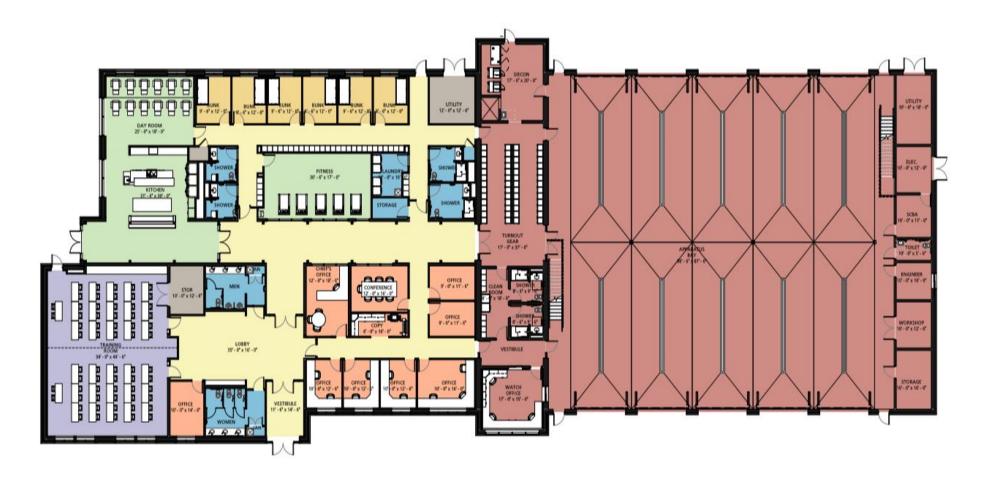
- PARTIAL GRANT AWARDED TO BRING PUBLIC WATER TO TOWNSHIP CAMPUS.
- PARTIAL GRANT AWARDED FOR STORMWATER FACILITY.
- NATURAL GAS TO BE INSTALLED.
- SEWER LINES TO BE REPLACED AS PART OF MANDATED PROGRAM.

NPDES PERMIT FOR FIRE STATION AND RELATED PROJECTS - MEETING 9/12/2019



FLOW CHART OF DESIGN PROCESS





APPARATUS BAY - 5 BAYS (DOUBLE DEEP)
TURNOUT GEAR - 52 RACKS @ 20" X 20"

BUNKS - 6 BUNKS @ MAXIMUM OF 4 BEDS PER BUNK = 24 PERSON MAX. SLEEPING CAPACITY

PERSONAL LOCKERS - 44 UNITS @ 18" X 18"

TRAINING ROOM - 60 SEATS @ 2 PERSON DESKS/ ROOM CAN BE DIVIDED W/ OPERABLE PARTITION

10839-D PHILADELPHIA RD WHITE MARSH, MD 21162 |P| 410-344-1460 |F| 443-403-2460 |E| INFO@NWSARCH.COW WWW.NWSARCH.COM

RE DEPARTMENT
RE DEPARTMENT

CUMRU FIRE DEPARTM 1775 WELSH ROAD MOHNTON PA 19540

1 FLOOR PLAN