

STORMWATER MGMT NARRATIVE

THE WESTTOWN SCHOOL'S OAK LANE PROJECT INCLUDES TWO WATERSHED AREAS, WHICH BOTH CONTRIBUTE TO AN UNNAMED TRIBUTARY TO THE EAST BRANCH OF THE CHESTER CREEK (TSP-WF STREAM CLASSIFICATION). PENDING A GEOTECHNICAL INVESTIGATION TO ASCERTAIN THE SITE'S ABILITY TO SAFELY INFILTRATE STORM RUNOFF, IT IS ANTICIPATED THAT RATE CONTROL, VOLUME CONTROL, AND WATER QUALITY BMP'S WILL BE EMPLOYED IN THE FINAL STORMWATER MANAGEMENT DESIGN.

THE STORMWATER MANAGEMENT PLAN FOR THE PROJECT WILL COMPLY WITH THE APPLICABLE ORDINANCES AND NOTES PERMIT REQUIREMENTS AND IS EXPECTED TO INCLUDE THE FOLLOWING FEATURES/BMP'S:

- PERVIOUS PAVEMENT WITH INFILTRATION BEDS (BENEATH PROPOSED PARKING STALLS)
- SUBSURFACE INFILTRATION BEDS (BENEATH THE PROPOSED SYNTHETIC TURF FIELDS)
- INFILTRATION TRENCHES BENEATH LAWN AREAS TO SUPPLEMENT CONVENTIONAL DETENTION AND INFILTRATION BASINS.
- RAIN GARDENS TO ACCOMPLISH BOTH INFILTRATION AND WATER QUALITY OBJECTIVES.
- CONVENTIONAL (SURFACE) DETENTION AND INFILTRATION BASINS TO DE-PEAK THE RATE OF DISCHARGE FOR THE RUNOFF AND TO REDUCE VOLUME.
- PROTECT/CONSERVE/ENHANCE RIPARIAN AREAS WITHIN THE PERENNIAL STREAM CORRIDOR AND IN DELINEATED WETLAND AREAS TO PROTECT AND MAINTAIN THE INTEGRITY OF THE CHANNEL, AND REDUCE IMPACT OF UPLAND SOURCES OF POLLUTION BY TRAPPING, FILTERING, AND CONVERTING SEDIMENTS, NUTRIENTS, AND OTHER CHEMICALS.

THE STORMWATER MANAGEMENT PLAN BEING CONTEMPLATED INCLUDES THE FOLLOWING CONCEPTS, WHICH WILL BE FULLY VETTED AS THE GEOTECHNICAL ENGINEERING TESTING AND DESIGN PROCESS ENSUE:

RUNOFF FROM THE FIELDS AND HALF OF THE PROPOSED FIELD HOUSE WILL FLOW SOUTHEAST AND WILL BE INTERCEPTED AND DETAINED PRIOR TO BEING DISCHARGED INTO THE PERENNIAL STREAM CHANNEL/WETLAND AREA LOCATED DOWN-GRADIENT. PENDING VERIFICATION OF THE EFFICACY OF STORMWATER INFILTRATION ON-SITE BY THE PROJECT GEOTECHNICAL CONSULTANT, THE REQUISITE PORTION OF THE INCREASED RUNOFF VOLUME WILL BE INFILTRATED THROUGH ONE OF THE SUBSURFACE BMP'S LISTED ABOVE. THE WETLAND AREAS LOCATED ON THE WESTTOWN SCHOOL'S PROPERTY AND SITUATED IMMEDIATELY DOWNSTREAM FROM THE PROPOSED DEVELOPMENT WILL BE PROTECTED, CONSERVED, AND POSSIBLY ENHANCED THROUGH THE REMOVAL OF INVASIVE SPECIES. RUNOFF FROM THE PROPOSED FIELD HOUSE AND ASSOCIATED PARKING AREA WILL FLOW WEST/SOUTHWEST AND WILL BE INTERCEPTED AND DETAINED PRIOR TO BEING DISCHARGED INTO THE NATURAL DRAINAGEWAY IMMEDIATELY ACROSS OAK LANE. PENDING VERIFICATION OF THE EFFICACY OF STORMWATER INFILTRATION ON-SITE BY THE PROJECT GEOTECHNICAL CONSULTANT, THE REQUISITE PORTION OF THE INCREASED RUNOFF VOLUME WILL BE INFILTRATED THROUGH THE INFILTRATION BEDS BELOW THE PERVIOUS PAVEMENT AND/OR THROUGH THE RAIN GARDENS BEING PROPOSED NEARBY.

REVISIONS PER:	DATE:	BY:
1. -	-	-
2. -	-	-
3. -	-	-
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5. -	-	-



743 S. BROAD ST.
LITITZ, PA 17543
(717) 626-7271
elagroup.com

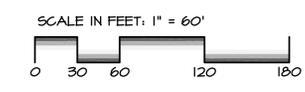
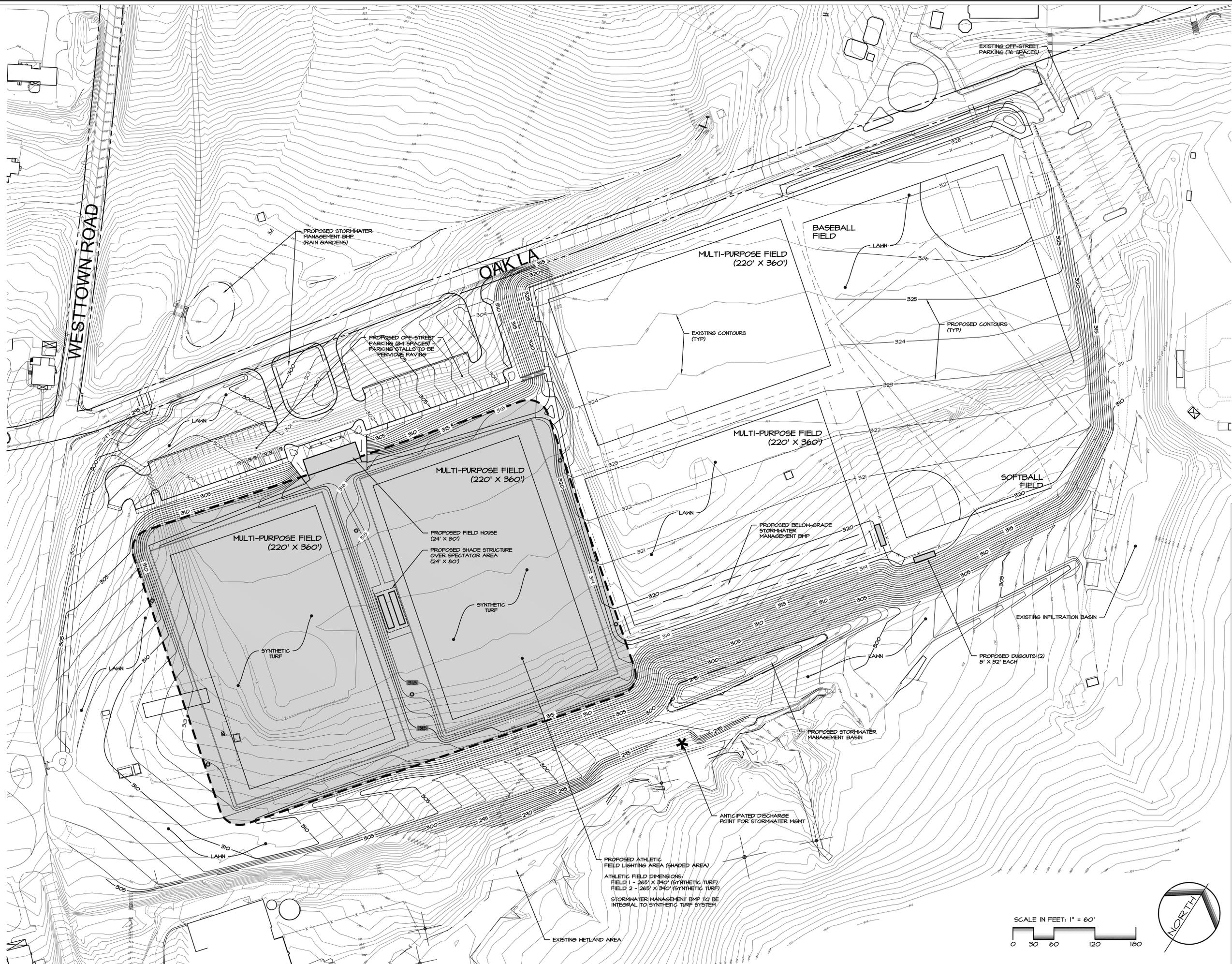
EVA
group, inc.
ENGINEERS • LANDSCAPE ARCHITECTS

CONDITIONAL USE APPLICATION

SUBJECT:
SITE PLAN
FOR
WESTTOWN SCHOOL - OAK LANE PROJECTS
WESTTOWN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA
CLIENT:
WESTTOWN SCHOOL
975 WESTTOWN ROAD
WEST CHESTER, PA 19382
(610) 399-0123

MANAGER: CRH DATE: JULY 23, 2018
DESIGNER: JCB PROJECT NO. 1091-001
DRAWN BY: JCB SCALE: 1" = 60'

DRAWING NO.
2 of 2



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