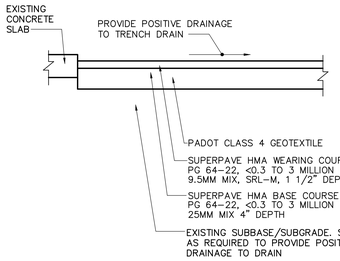
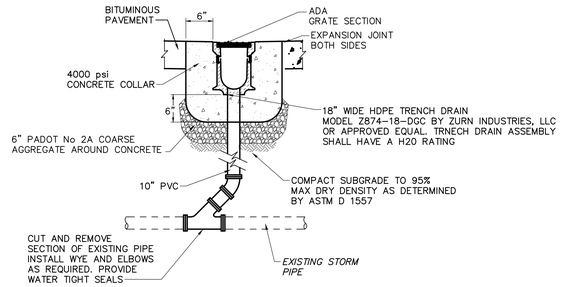
SITE PLAN
NOT TO SCALE



BITUMINOUS PAVEMENT DETAIL
NOT TO SCALE



A/1 SECTION

PRE-CAST TRENCH DRAIN DETAIL
NOT TO SCALE

CONCRETE:
ALL CONCRETE WORK SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE'S BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318-05.

CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT THE END OF 28 DAYS AS FOLLOWS:

WALL FOOTINGS, ISOLATED COLUMN FOOTINGS, CAISSONS - 3000 PSI

SLABS ON GRADE - 4000 PSI

CONCRETE TESTING: BY QUALIFIED INDEPENDENT TESTING AGENCY.
FREQUENCY:
ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR FOR EACH CONCRETE MIX EXCEEDING 5 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 25 CU. YD. OR FRACTION THEREOF.

TESTS:
SLUMP - ASTM C143, ONE TEST PER COMPOSITE SAMPLE

AIR CONTENT - ASTM C231, ONE TEST PER COMPOSITE SAMPLE

CONCRETE TEMPERATURE, ASTM C1064 ONE TEST HOURLY WHEN TEMPERATURE IS BELOW 40° F OR ABOVE 80° F

COMPRESSIVE TEST SPECIMENS - ASTM C31
CAST 2 CYLINDER EACH FOR LABORATORY CURED AND FIELD CURED FOR EACH COMPOSITE SAMPLE

COMPRESSIVE STRENGTH TESTS ASTM C39
ONE SET OF TWO CYLINDERS FIELD CURED CYLINDERS AT 7 DAYS AND ONE SET AT 28 DAYS

SUBMITTALS:
DESIGN FOR EACH MIX, INCLUDING MATERIALS AND ADMIXTURES

REINFORCEMENT AND EMBEDDED ITEMS

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4 INCH CHAMFER, UNLESS NOTED OTHERWISE.

REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A615.

WELD WIRE FABRIC (WWF) PLAIN SHALL CONFORM TO ASTM A185.

MINIMUM LENGTH OF LAP FOR TENSION LAP SPLICES OF DEFORMED REINFORCING STEEL SHALL BE AS REQUIRED FOR CLASS B SPLICES INACCORDANCE WITH ACI 318-05 UNLESS NOTED OTHERWISE.

CAST-IN-PLACE CONCRETE SHALL HAVE THE FOLLOWING COVER OVER REINFORCEMENT UNLESS OTHERWISE NOTED:
A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
3 INCHES
B) CONCRETE EXPOSED TO EARTH AND WEATHER:
#6 THRU #18 BARS 2 INCHES
#5 BAR W31 OR D31 WIRE 1 1/2 INCHES
C) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS AND JOISTS:
#14 THRU #18 BARS 1 1/2 INCHES
#11 BAR AND SMALLER 3/4 INCHES
BEAMS, COLUMNS, TIES, STIRRUPS AND SPIRALS: 1 1/2 INCHES

VERTICAL CRACK CONTROL JOINTS ALONG THE LENGTH OF REINFORCED CONCRETE WALLS SHALL BE SPACED AT INTERVALS NO GREATER THAN 25 FEET AND EXPANSION JOINTS SHALL BE SPACED AT 100 FOOT INTERVALS UNLESS OTHERWISE NOTED

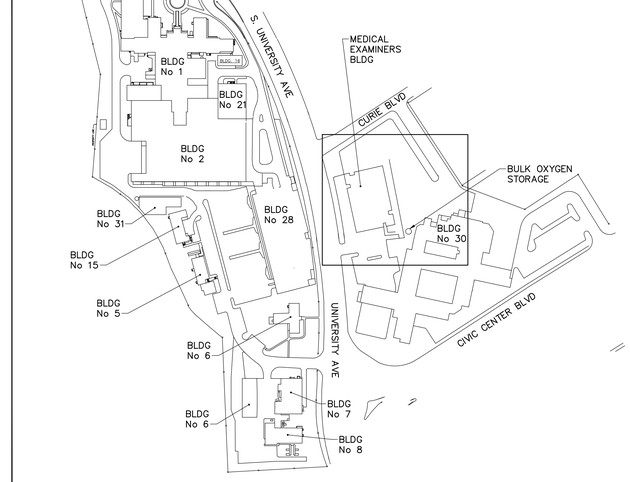
PRE-MOLDED EXPANSION JOINT MATERIAL SHALL COMPLY WITH ASTM D 1751 ASPHALT SATURATED CELLULOSIC FIBER.

JOINT SEALANT ONE PART POLYURETHANE ELASTOMERIC SEALANT/ADHESIVE MEETING ASTM C 920 TYPE S GRADE NS CLASS 25 SUCH AS SIKAFLEX 1A AS MANUFACTURED BY SIKA CORPORATION OR APPROVED EQUAL.

BONDING AGENT SHALL COMPLY WITH ASTM C 881, TWO COMPONENT EPOXY RESIN, TYPE IV AND V LOAD BEARING.

FACILITY ID# 21134
VA MEDICAL CENTER
DEPT. OF VETERAN AFFAIRS MEDICAL CENTER
400 UNIVERSITY AVENUE
PHILADELPHIA, PA 19104

LATITUDE: 39.94976
LONGITUDE -75.20018



BLDG. NO.	BLDG. NAME
1	MAIN HOSPITAL BLDG
2	CLINICAL ADDITION
3	DRUG TREATMENT
5	ENGINEERING
6	MOTOR POOL
7	DEMOLISHED 2005
8	BOILER PLANT
15	ENGINEERING
16	EMER GENER. BLDG
21	MEDICAL RESEARCH
28	PARKING GARAGE
30	NURSING HOME
31	CHILLER PLANT

N

Revisions	Date

CONSULTANTS

MEP ENGINEERING

H.F. LENZ COMPANY
1407 Scalp Avenue |
Johnstown, PA 15904 |
(814.269.9300 |

Earth Smart Environmental Solutions, LLC

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
BRYAN J. MCCLEMENT
PE-074251

ARCHITECT

Drawing Title: SITE PLAN AND DETAILS

Approved:

Project Title: Bulk O2 Farm Drainage Modification

Location: Philadelphia, Pennsylvania

Date: 08/01/16 | Checked By: BJC | Drawn By:

Project Number: 2016-0238.01

Building Number: -

Drawing Number: C-001

Dwg. 1 of 1

Office of Construction and Facilities Management
Department of Veterans Affairs

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