

QUANTICO MIDDLE/HIGH SCHOOL

SEQUENCE OF CONSTRUCTION

GENERAL

1. Obtain all necessary permits.
2. Set up and conduct pre-construction meeting at the site with NAVFAC, NREA, and all ground disturbance contractors prior to the start of construction.

PHASE 1 - SOUTH OF PURVIS ROAD

1. Install Stabilized Construction Entrances.
2. Install Super Silt Fence and set up Contractor Staging Areas.
3. Construct Phase 1 perimeter controls as shown on the plans.
4. Complete site demolition as shown on the plans.
5. Provide vegetative stabilization of all disturbed areas.
6. With the approval of the inspector, proceed to Phase 2.

PHASE 2 - SOUTH OF PURVIS ROAD

1. Relocate super silt fence as necessary to construct storm drain outfalls. Construct proposed storm drain including storm drain outfalls.
2. Provide inlet protection for new all inlets.
3. Grade building pad area and start building construction.
4. Grade site and construct remaining utilities.
5. Provide vegetative stabilization of disturbed areas.
6. Bio-retention areas may be partially excavated (no deeper than 1' above the final bottom of excavation) in order to enhance site drainage during construction. Bio-retention facilities may not be constructed until contributing drainage areas are completely stabilized.
7. Install curb and gutter, drive lanes, and parking lots.
8. Complete fine grading of site, including topsoil placement.
9. Provide permanent stabilization.
10. Once contributing drainage areas are stabilized, construct bio-retention facilities, following the steps on Sheet C-511. Place topsoil and provide permanent stabilization of side slopes.
11. Upon completion of construction, and once the site has been vegetatively stabilized, and with the approval of the inspector, remove all remaining erosion and sediment control measures south of Purvis Road.

PHASE 1 - NORTH OF PURVIS ROAD

1. Install Stabilized Construction Entrances.
2. Construct Phase 1 perimeter controls as shown on the plans.
3. Construct Inlet Protection at all existing inlets.
4. Complete site demolition of existing school building, ancillary buildings, utilities, drive lanes and parking lots as shown on the plans.
5. Provide vegetative stabilization of all disturbed areas.
6. With the approval of the Inspector, proceed to Phase 2.

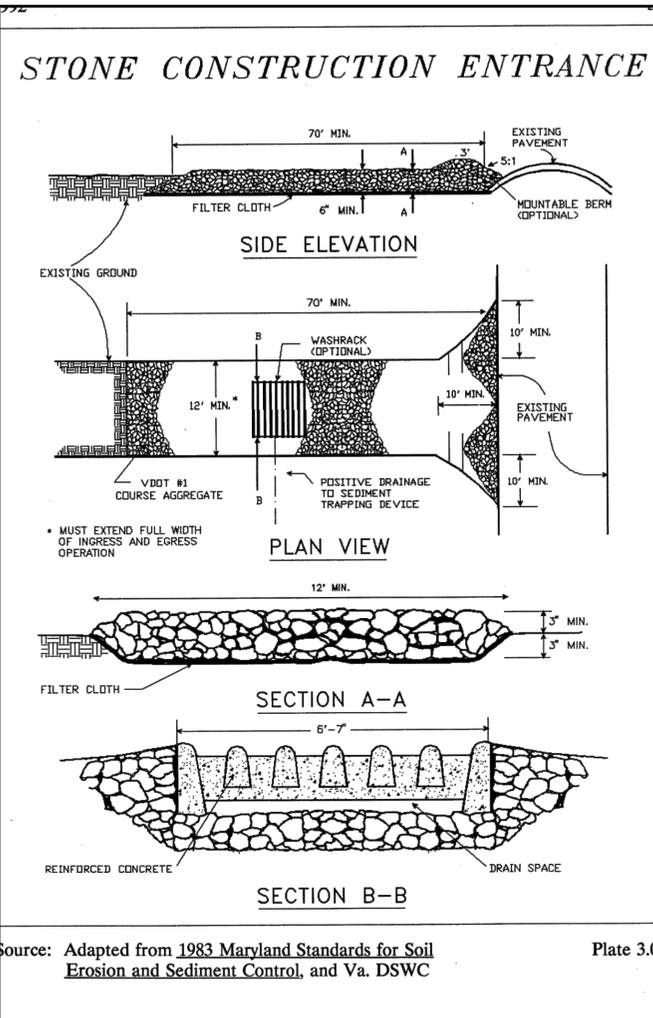
PHASE 2 - NORTH OF PURVIS ROAD

1. Ensure that perimeter controls are in place and are functioning.
2. Remove existing storm drain and construct new storm drain.
3. Provide inlet protection for all new inlets.
4. Grade parking lot area and install curb and gutter, drive lanes, and parking lot.
5. Provide vegetative stabilization.
6. Bio-retention areas may be partially excavated (no deeper than 1' above the final bottom of excavation) in order to enhance site drainage during construction. Bio-retention facilities may not be constructed until contributing drainage areas are completely stabilized.
7. Grade and construct new baseball field.
8. Complete fine grading of site, including top soil placement.
9. Provide permanent stabilization.
10. Once contributing drainage areas are stabilized, construct bio-retention facilities, following the steps on Sheet C-511. Place topsoil and provide permanent stabilization of the side slopes.
11. Upon completion of construction, and once the site has been vegetatively stabilized, and with the approval of the Inspector, remove all remaining erosion and sediment control measures.

COMPLETION

1. Provide Notice of Termination.

CE



Source: Adapted from 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC Plate 3.02

1 CONSTRUCTION ENTRANCE N.T.S.

- C-102
- C-104
- C-111
- C-112
- C-114

TABLE 6-1

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ES-1: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations 4VAC50-30 Erosion and Sediment Control Regulations.
- ES-2: The plan approving authority must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activity, and one week prior to the final inspection.
- ES-3: All erosion and sediment control measures are to be placed prior to or as the first step in clearing.
- ES-4: A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.
- ES-5: Prior to commencing land disturbing activities in areas other than indicated on these plans (including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan approving authority.
- ES-6: The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.
- ES-7: All disturbed areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until final stabilization is achieved.
- ES-8: During dewatering operations, water will be pumped into an approved filtering device.
- ES-9: The contractor shall inspect all erosion control measures periodically and after each runoff-producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.

NO.	SYMBOL	DESCRIPTION	DATE	APPROVED



SEAL
EWING COLE
 Federal Reserve Bank Building
 100 North 6th Street
 Philadelphia, PA 19106
 Tel: 215.923.2020 Fax: 215.574.0952

STANTEC
 610 FROST PLACE
 LAUREL, MD 20707

APPROVED	DATE
FOR COMMANDER NAVFAC	CHECKER AKA
ACTIVITY	
SATISFACTORY TO	DATE
Designer: JMS	Author: BKO
PI/MCM	
BRANCH MANAGER	
CHIEF ENGR ARCH	
FIRE PROTECTION	

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 WASHINGTON
 MARINE CORPS BASE QUANTICO, VIRGINIA
 QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL
 SEDIMENT & EROSION CONTROL
 DETAILS

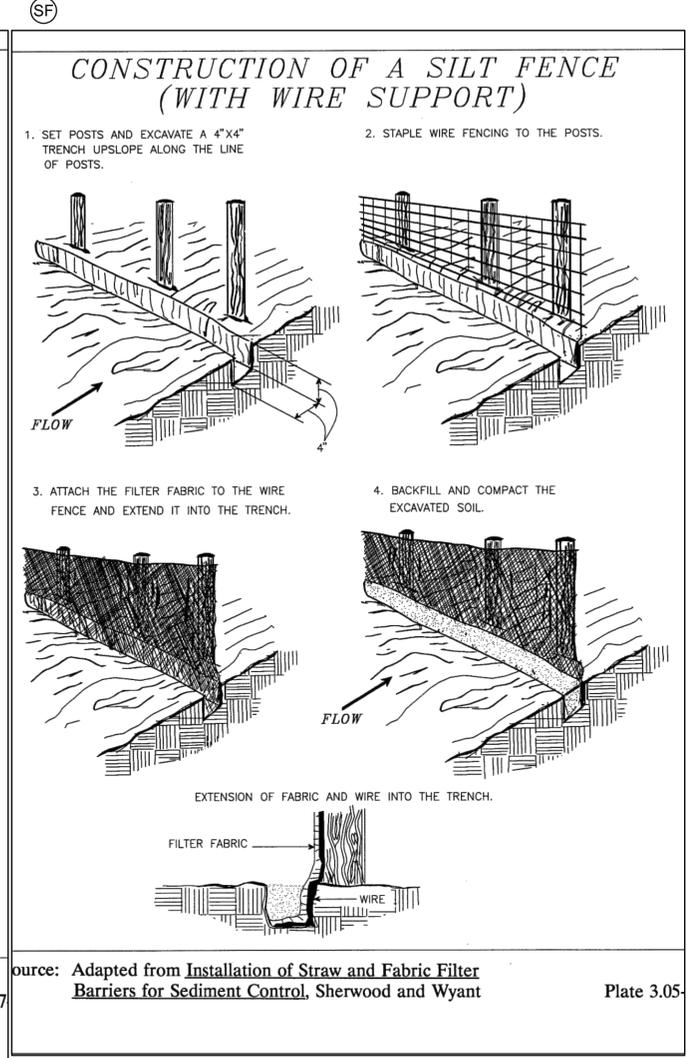
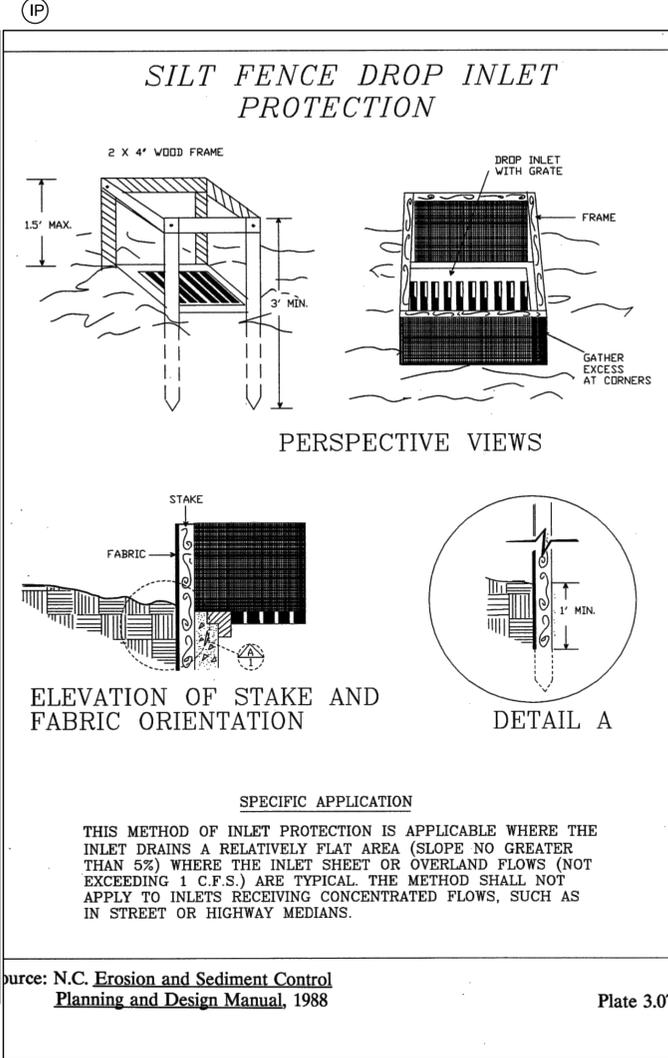
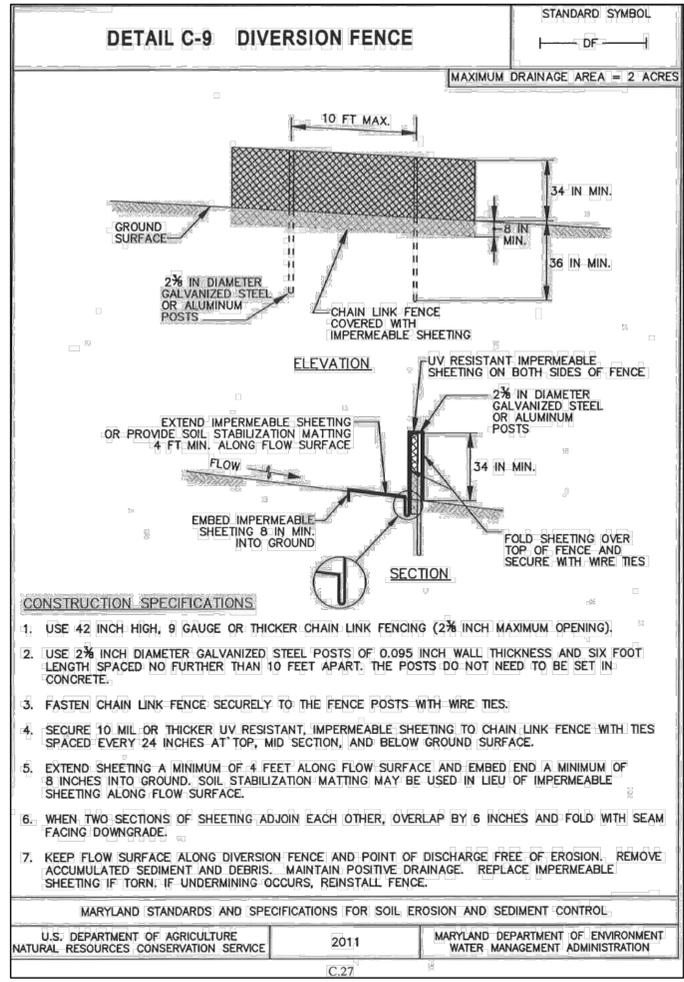
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PROJECT NO.:	P-021
CONSTR. CONTR. NO.	W91236-15-C-0023
NAVFAC DRAWING NO.	13090788
SHEET	34 OF 789
	C-501

D

C

B

A



1 DIVERSION FENCE
C-101 N.T.S.

2 DROP INLET SILT FENCE
C-111 N.T.S.

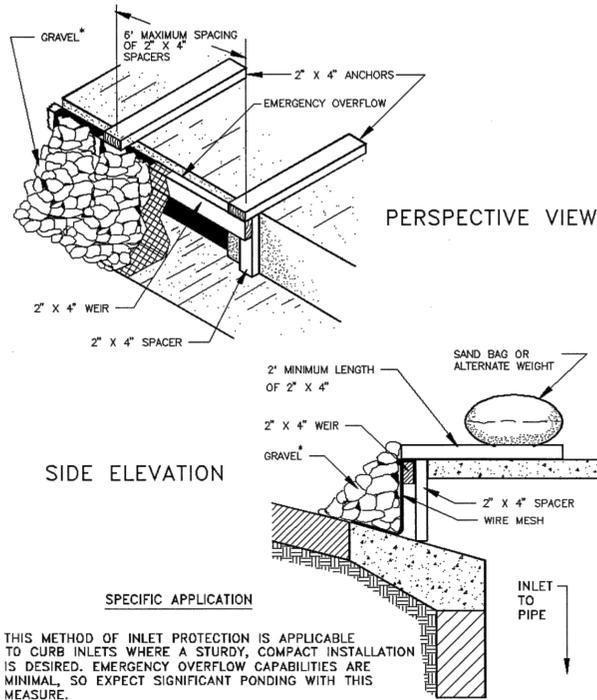
C-112
C-113
C-114

3 SUPER SILT FENCE
C-101 N.T.S.

C-102
C-103
C-104
C-111
C-112
C-113
C-114

DATE	APPR
DESCRIPTION	
EWING COLE Federal Reserve Bank Building 100 North 6th Street Philadelphia, PA 19106 Tel: 215.923.2020 Fax: 215.574.0952	
STANTEC 6110 FROST PLACE LAUREL, MD 20707	
APPROVED	AE INFO
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO DATE	DESIGNER: JMS AUTHOR: BKO CHECKER: AKA
PROJECT MANAGER	BRANCH MANAGER
CHIEF ENGINEER ARCH	FIRE PROTECTION
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON MARINE CORPS BASE QUANTICO, VIRGINIA QUANTICO, VA	
REPLACE QUANTICO M/H SCHOOL SEDIMENT & EROSION CONTROL DETAILS	
SCALE:	1" = 30'
PROJECT NO.:	P-021
CONSTR. CONTR. NO.	W91236-15-C-0023
NAVFAC DRAWING NO.	13090789
SHEET	35 OF 789
C-502	
DRAWING REVISION 10 MARCH 2009	

CURB INLET PROTECTION WITH 2-INCH X 4-INCH WOODEN WEIR



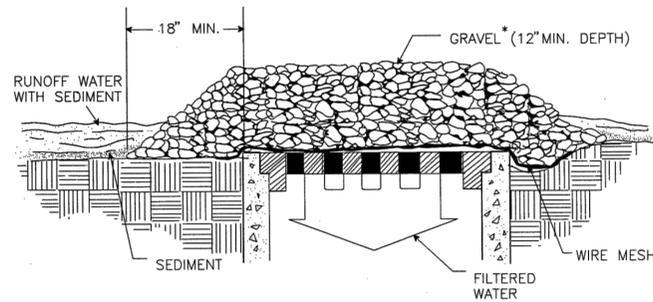
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE TO CURB INLETS WHERE A STURDY, COMPACT INSTALLATION IS DESIRED. EMERGENCY OVERFLOW CAPABILITIES ARE MINIMAL, SO EXPECT SIGNIFICANT PONDING WITH THIS MEASURE.

* GRAVEL SHALL BE VDOT COARSE AGGREGATE #3, #357 OR #5

Source: 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, and USDA-SCS Plate 3.07

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



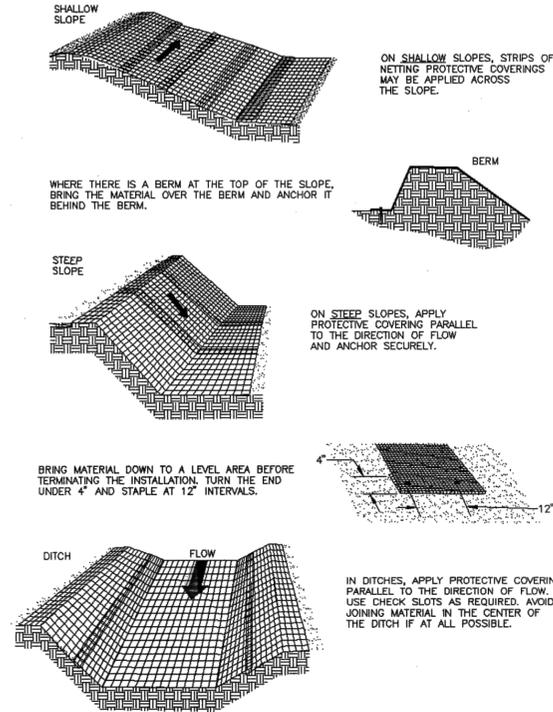
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

Source: Va. DSWC Plate 3.07

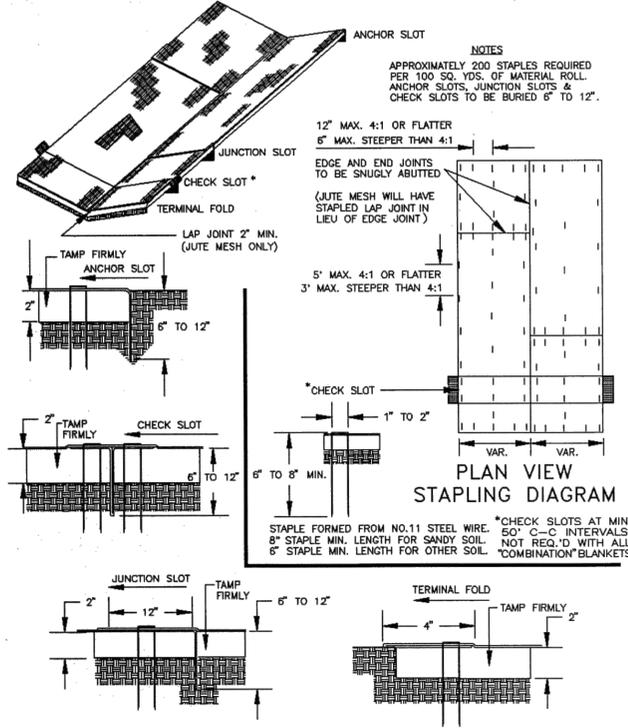
TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)



Source: Adapted from Ludlow Products Brochure Plate 3.36-1

III - 361

TYPICAL TREATMENT - 1 (SOIL STABILIZATION BLANKET) INSTALLATION CRITERIA



Source: VDOT Road and Bridge Standards Plate 3.36-2

III - 362

1 CURB INLET PROTECTION N.T.S.

- C-104
- C-111
- C-112
- C-114

2 GRAVEL INLET PROTECTION N.T.S.

- C-112
- C-113
- C-114

3 SOIL STABILIZATION BLANKET N.T.S.

- C-101

DATE
APPR.

DESCRIPTION
SYN.

COMMONWEALTH OF VIRGINIA
ALAN KARL ARNOLD
Lic. No. 029959
10-13-2016
PROFESSIONAL ENGINEER

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APPROVED

FOR COMMANDER NAVFAC
ACTIVITY

SATISFACTORY TO DATE

Designer JMS Author BKO Checker AKA

PI/MCM

BRANCH MANAGER

CHIEF ENGR ARCH

FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 MARINE CORPS BASE QUANTICO, VIRGINIA
 QUANTICO, VA
 REPLACE QUANTICO M/H SCHOOL
 SEDIMENT & EROSION CONTROL
 DETAILS

SCALE: 1" = 30'

PROJECT NO.: P-021

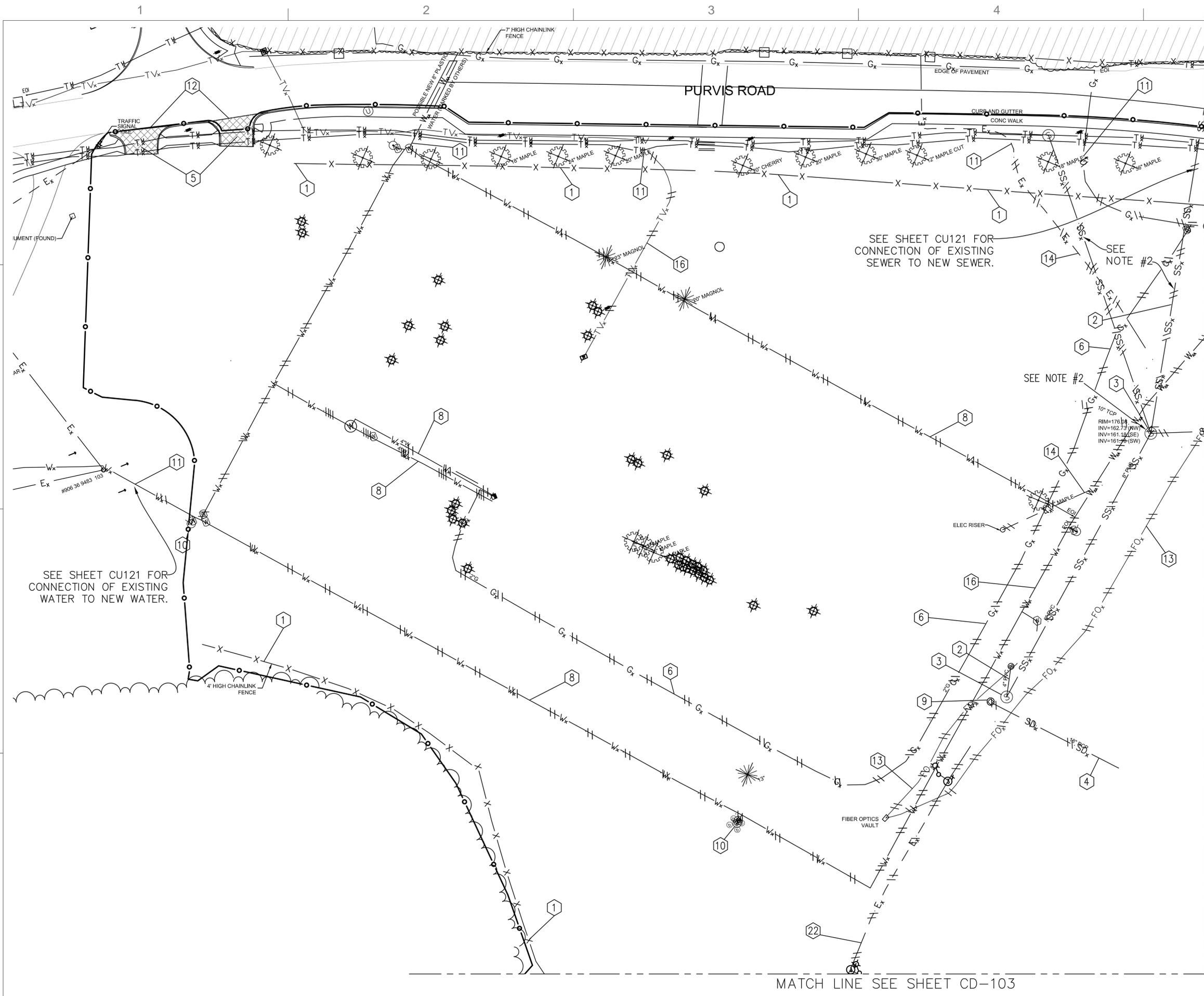
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NAVFAC DRAWING NO. 13090790

SHEET 36 OF 789

C-503

DRAWN FOR REVISION 10 MARCH 2016



DEMOLITION KEYNOTES

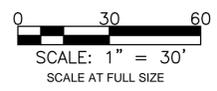
- 1 REMOVE EXISTING FENCE
- 2 REMOVE EXISTING SANITARY SEWER LINE
- 3 REMOVE EXISTING SANITARY SEWER MANHOLE
- 4 REMOVE EXISTING STORM DRAIN LINE
- 5 REMOVE EXISTING ASPHALT PAVEMENT, AGGREGATE BASE AND CURB & GUTTER
- 6 REMOVE ALL EXISTING GAS VALVES AND ASSOCIATED PIPING
- 8 REMOVE EXISTING WATER & CAP AT EXISTING CONNECTION POINTS
- 9 REMOVE EXISTING STORM DRAIN STRUCTURE
- 10 REMOVE BOLLARDS, FH, VALVES AND ASSOCIATED PIPNG
- 11 LIMIT OF EXISTING UNDERGROUND UTILITY LINE REMOVAL
- 12 SAW-CUT PAVEMENT
- 13 REMOVE EXISTING FIBER OPTIC LINES AND ASSOCIATED VAULTS
- 14 REMOVE EXISTING ELECTRICAL LINES AND ASSOCIATED JUNCTION BOXES
- 16 REMOVE EXISTING CABLE TV LINES AND ASSOCIATED EQUIPMENT

DEMOLITION LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT, AGGREGATE BASE AND CURB & GUTTER
- REMOVE EXISTING BUILDING AND ASSOCIATED FOUNDATION
- REMOVE EXISTING TREE/SHRUB
- REMOVE EXISTING UTILITY

NOTES

1. BACKGROUND INFORMATION ON THIS PLAN IS INTENDED TO DEPICT SITE CONDITIONS AFTER DEMOLITION OF THE RUSSELL SCHOOL (BY OTHERS) AND THE RUSSELL BALLFIELDS (BY OTHERS). CONTRACTOR SHALL VERIFY ACTUAL SITE CONDITIONS.
2. THESE SEWER LINES AND MANHOLES PROVIDE SERVICE FOR THE NEW ELEMENTARY SCHOOL TO THE NORTH AND THE HOUSING AREA TO THE WEST. THESE LINES CAN NOT BE TAKEN OUT OF SERVICE UNTIL NEW SSMH'S 1-4 AND ASSOCIATED SEWER LINES HAVE BEEN CONSTRUCTED AND ARE IN SERVICE (SEE WATER & SEWER PLAN SHEETS CU121, CU122 & CU301).
3. SEE NOTE ON SHEET C-001 REGARDING THE EXPLOSIVES SAFETY SUBMISSION AND PROCEDURES FOR SITE DISTURBANCE AND HAUL AWAY.



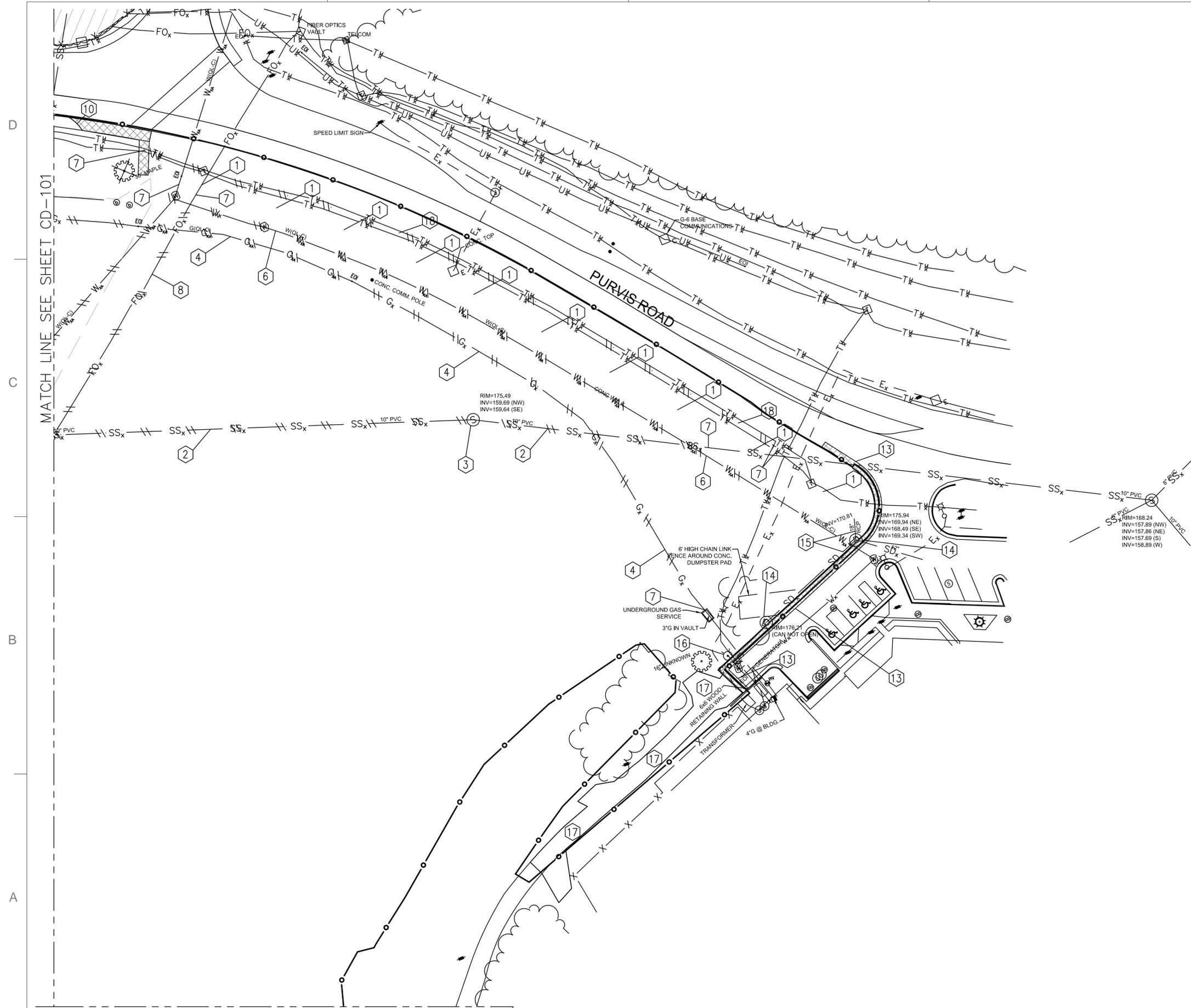
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FOR COMMANDER NAVFAC ACTIVITY	DESCRIPTION
SATISFACTORY TO	DATE
Designer JMS	Author BKO
Checker AKA	
PROJECT NO.	P-021
CONSTR. CONTR. NO.	W91236-15-C-0023
NAVFAC DRAWING NO.	13090791
SHEET	37 OF 789
CD101	

COMMONWEALTH OF VIRGINIA
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LAUREL, MD 20707

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON
 MARINE CORPS BASE QUANTICO, VIRGINIA
 QUANTICO, VA
 REPLACE QUANTICO M/H SCHOOL
 SITE DEMOLITION PLAN



DEMOLITION KEYNOTES

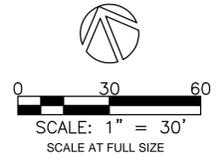
- 1 REMOVE EXISTING TREE STUMP
- 2 REMOVE EXISTING SANITARY SEWER LINE
- 3 REMOVE EXISTING SANITARY SEWER MANHOLE
- 4 RELOCATE EXISTING GAS LINE
- 6 RELOCATE EXISTING WATER LINE
- 7 LIMIT OF EXISTING UNDERGROUND UTILITY LINE REMOVAL
- 8 REMOVE EXISTING FIBER OPTIC LINES AND ASSOCIATED VAULTS
- 10 END EXISTING SIDEWALK REMOVAL
- 13 SAW-CUT PAVEMENT
- 14 RELOCATE STORM DRAIN STRUCTURE TO NEW CURB LINE
- 15 RELOCATE STORM DRAIN LINE
- 16 RELOCATE EXISTING FIRE HYDRANT
- 17 REMOVE GRAVEL ROAD
- 18 RELOCATE EXISTING TELECOM LINES

DEMOLITION LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT, AGGREGATE BASE AND CURB & GUTTER
- REMOVE EXISTING BUILDING AND ASSOCIATED FOUNDATION
- REMOVE EXISTING TREE/SHRUB
- REMOVE EXISTING UTILITY

NOTES

- THIS SEWER LINE AND MANHOLE PROVIDES SERVICE FOR THE NEW ELEMENTARY SCHOOL TO THE NORTH AND THE HOUSING AREA TO THE WEST. THESE CAN LINES CAN NOT BE TAKEN OUT OF SERVICE UNTIL NEW SSMH'S 1-4 AND ASSOCIATED SEWER LINES HAVE BEEN CONSTRUCTED AND ARE IN SERVICE (SEE WATER & SEWER PLAN SHEETS CU121, CU122 & CU301).
- BACKGROUND INFORMATION ON THIS PLAN IS INTENDED TO DEPICT SITE CONDITIONS AFTER DEMOLITION OF THE RUSSELL SCHOOL (BY OTHERS) AND THE RUSSELL BALLFIELDS (BY OTHERS). CONTRACTOR SHALL VERIFY ACTUAL SITE CONDITIONS.



DATE	APPR.
DESCRIPTION	SYU
STANTEC 8110 FROST PLACE LAUREL, MD 20707 A/E INFO	
APPROVED	FOR COMMANDER NAVFAC ACTIVITY
SATISFACTORY TO	DATE
Designer JMS	Author BKO
Checker AKA	
PI/DCM	
BRANCH MANAGER	
CHIEF ENG ARCH	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND	QUANTICO, VA
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON	QUANTICO, VA
MARINE CORPS BASE QUANTICO	QUANTICO, VA
MARINE CORPS BASE QUANTICO	QUANTICO, VA
REPLACE QUANTICO M/H SCHOOL	SITE DEMOLITION PLAN
SCALE: 1" = 30'	PROJECT NO.: P-021
CONSTR. CONTR. NO.	W91236-15-C-0023
NAVFAC DRAWING NO.	13090792
SHEET	38 OF 789
CD102	