VA CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION

Department of Veterans Affairs Medical Center

VAMC - Butler 325 New Castle Road, Butler, PA PROJECT #: 529-314

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PROJECT LOCATION

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SHEET LIST	
SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
GI101	CODE INFORMATION
CIVIL	
CI001	CIVIL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
BL001	GEOTECHNICAL SOIL BORING LOGS
BL002	GEOTECHNICAL SOIL BORING LOGS
BL003	GEOTECHNICAL SOIL BORING LOGS
XP101	EXISTING CONDITIONS PLAN
XP102	EXISTING CONDITIONS PLAN
GC100	EROSION AND SEDIMENT CONTROL NOTES
GC101	EROSION AND SEDIMENT CONTROL PLAN
GC102	EROSION AND SEDIMENT CONTROL PLAN
GC501	EROSION AND SEDIMENT CONTROL DETAILS
GC502	EROSION AND SEDIMENT CONTROL DETAILS
CD101	SITE DEMOLITION PLAN
CD102	SITE DEMOLITION PLAN
CS101	SITE LAYOUT AND UTILITY PLAN
CS102	SITE LAYOUT AND UTILITY PLAN
CS501	SITE DETAILS
CS502	SITE DETAILS
CS503	SITE DETAILS
CS504	SITE DETAILS
CG101	SITE GRADING PLAN
CG102	SITE GRADING PLAN
CU201	WATER & SANITARY PROFILES
CU261	STORM PROFILES
CJ001	STORMWATER MANAGEMENT NOTES & DETAILS
CJ002	STORMWATER MANAGEMENT NOTES & DETAILS
CJ003	STORMWATER MANAGEMENT DETAILS
LS101	LANDSCAPE PLAN
LS501	LANDSCAPE NOTES AND DETAILS
ARCHITECTURAL	
A-001	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
AE101	FLOOR PLAN
AE102	ROOF PLAN
AE201	EXTERIOR ELEVATIONS
AE301	BUILDING SECTIONS
AE302	WALL SECTIONS
AE303	WALL SECTIONS
AE401	TYPICAL MOUNTING HEIGHTS
AE402	LARGE SCALE PLANS AND INTERIOR ELEVATIONS
AE403	LARGE SCALE DIMENSION PLAN
AE501	EXTERIOR DETAILS
AE502	INTERIOR DETAILS
AE601	SCHEDULES, LEGENDS, AND DETAILS
AF601	ROOM FINISH SCHEDULE AND LEGEND
AJ101	REFLECTED CEILING PLAN
STRUCTURAL	
S-001	GENERAL NOTES AND ABBREVIATIONS
S-002	STATEMENT OF SPECIAL INSPECTIONS
SS101	FOUNDATION AND SLAB PLAN
SS102	ROOF FRAMING PLAN
S-201	ELEVATIONS
S-301	CONCRETE DETAILS AND SECTIONS
S-302	CONCRETE DETAILS AND SECTIONS
S-401	MASONRY DETAILS AND SECTIONS
S-501	STEEL DETAILS AND SECTIONS

SHEET LIST	
SHEET NUMBER	SHEET NAME
FIRE ALARM	
FA001	FIRE ALARM LEGENDS & SYMBOLS
FA101	FLOOR PLAN - FIRE ALARM - NEW WORK
FA501	FIRE ALARM DETAILS
FIRE PROTECTION	
FP001	FIRE PROTECTION LEGENDS & SYMBOLS
FP100	FIRE PROTECTION SITE PLAN
FP111	HAZARD CLASSIFICATION PLAN - FIRE PROTECTION - NEW WORK
FP112	PIPING FLOOR PLAN - FIRE PROTECTION - NEW WORK
FP401	FIRE PUMP SCHEDULES, SCHEMATICS, & SECTIONS
FP501	FIRE PROTECTION DETAILS
PLUMBING	
P-001	PLUMBING NOTES, LEGENDS, & SYMBOLS
PS100	PLUMBING SITE PLAN
PP101	UNDERSLAB FLOOR PLAN - PLUMBING PIPING - NEW WORK
PP111	FIRST FLOOR PLAN - PLUMBING PIPING - NEW WORK
PP121	ROOF PLAN - PLUMBING PIPING - NEW WORK
P-401	PLUMBING ENLARGED PLANS - NEW WORK
P-501	PLUMBING DETAILS
P-502	PLUMBING DETAILS
P-601	PLUMBING ISOMETRICS
P-602	PLUMBING ISOMETRICS
P-603	PLUMBING ISOMETRICS
P-801	PLUMBING SCHEDULES
MECHANICAL	
M-001	MECHANICAL NOTES, LEGENDS, & SYMBOLS
M-100	MECHANICAL SITE PLAN
MH101	FIRST FLOOR PLAN - MECHANICAL
MH102	ROOF FLOOR PLAN - MECHANICAL
MP101	FIRST FLOOR PLAN - MECHANICAL PIPING
M-401	MECHANICAL ENLARGED PLANS
M-402	MECHANICAL ENLARGED PLANS
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL DETAILS
M-504	MECHANICAL DETAILS
M-701	MECHANICAL CONTROLS
M-702	MECHANICAL CONTROLS
M-703	MECHANICAL CONTROLS
M-801	MECHANICAL SCHEDULES
ELECTRICAL	
E-001	ELECTRICAL LEGENDS, SYMBOLS, & GENERAL NOTES
E-100	ELECTRICAL SITE PLAN
EL101	FLOOR PLAN - LIGHTING - NEW WORK
EP101	FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK
EP102	ROOF PLAN - ELECTRICAL EQUIPMENT - NEW WORK
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-504	ELECTRICAL DETAILS
E-601	ELECTRICAL DIAGRAMS
E-801	ELECTRICAL SCHEDULES
TELECOM	
T-001	TECHNOLOGY LEGEND, ABBREV & GENERAL NOTES
T-100	TECHNOLOGY SITE PLAN
T-101	FLOOR PLAN - TELECOM - NEW WORK
T-501	TECHNOLOGY – DETAILS
T-502	TECHNOLOGY - RACK ELEVATIONS AND DETAILS
T-503	TECHNOLOGY - SITE DETAILS
T-601	TECHNOLOGY - DIAGRAMS

Revisions | Date

CONSULTANT

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET
Phase: BID DOCUMENTS
Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number: 529-314
Building Number:
Approved:
FULLY SPRINKLERED
Location: BUTLER, VA
Issue Date: 06/02/2025
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VA FORM 08 - 6231

PROJECT INFORMATION

VAMC BUTLER – VISN-4 WAREHOUSE
THE PROPOSED BUILDING IS A TYPE IIB [II (000)], ONE-STORY STRUCTURE, SLAB-ON-GRADE, STEEL FRAME, PRE-CAST CONCRETE WALL PANELS WITH THIN BRICK VENEER. THE BUILDING IS PROTECTED BY AN EARLY SUPPRESSION FAST-RESPONSE (ESFR) SPRINKLER SYSTEM.

THE INTERIOR CONSISTS OF WAREHOUSE SPACE, OFFICE SPACE, AND MECHANICAL SPACES.

AUTHORITY HAVING JURISDICTION:
LOCAL — FEDERAL

APPLICABLE CODE(S): NFPA 101 LIFE SAFETY CODE, INTERNATIONAL BUILDING CODE (IBC), NATIONAL ELECTRIC CODE

LOCATION: BUTLER VA MEDICAL CENTER, 325 NEW CASTLE ROAD, BUTLER, PA 16001-2480

IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO COMPLY WITH THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE AND THE 2022 EDITION OF THE ICC CODES AS IMPLEMENTED BY THE COMMONWEALTH OF PENNSYLVANIA. THE DOCUMENTS HAVE BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING REGULATIONS, AMONG OTHERS. ALL WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THESE REGULATIONS:

- INTERNATIONAL BUILDING CODE, 2022 ed.
- INTERNATIONAL EXISTING BUILDING CODE, 2022 ed.
- INTERNATIONAL ENERGY CONSERVATION CODE 2022 ed.
- INTERNATIONAL PLUMBING CODE, 2022 ed.
- INTERNATIONAL MECHANICAL CODE, 2022 ed.
- INTERNATIONAL FIRE CODE, 2022 ed.
- INTERNATIONAL FUEL GAS CODE 2022 ed.
- NFPA 101 2024 ed.
- NFPA 220 2024 ed.

INTERNATIONAL BUILDING CODE 2022 (IBC 2022)

CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE

USE GROUP: MODERATE-HAZARD STORAGE, GROUP S-1 – WAREHOUSE (12,513 GSF)

USE GROUP: RECEIVING DOCK (503 GSF); INCIDENTAL TO WAREHOUSE

USE GROUP: MECHANICAL ROOMS (2,660 SF); INCIDENTAL TO WAREHOUSE

USE GROUP: BUSINESS, GROUP B – OFFICE (1,723 SF); ACCESSORY OCCUPANCY

311.3 MODERATE-HAZARD STORAGE, GROUP S-1
STORAGE GROUP S-1 OCCUPANCIES ARE BUILDINGS OCCUPIED FOR STORAGE USES THAT ARE NOT CLASSIFIED AS GROUP S-2. BUILDINGS IN WHICH COMBUSTIBLE MATERIALS ARE STORED AND THAT BURN WITH EASE ARE CLASSIFIED IN GROUP S-1, MODERATE-HAZARD STORAGE OCCUPANCIES.

PER THE VA, THE PRIMARY STORAGE IS VENTILATORS. THE EXPENDABLE MATERIAL IS PERSONAL PROTECTIVE EQUIPMENT CONSISTING OF MASKS, GLOVES, TESTING KITS, ETC. THE EXPENDABLE MATERIALS ARE COMBUSTIBLE MATERIALS.

CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE

SECTION 413 COMBUSTIBLE STORAGE

413.1 GENERAL
HIGH-PILED STOCK OR RACK STORAGE IN ANY OCCUPANCY GROUP SHALL COMPLY WITH THE *INTERNATIONAL FIRE CODE*.

INTERNATIONAL FIRE CODE 2022 (IFC 2022)

HIGH-PILED COMBUSTIBLE STORAGE. STORAGE OF COMBUSTIBLE MATERIALS IN CLOSELY PACKED PILES OR COMBUSTIBLE MATERIALS ON PALLETS, IN RACKS OR ON SHELVES WHERE THE TOP OF STORAGE IS GREATER THAN 12 FEET (3658 mm) IN HEIGHT.

PER THE VA, STORAGE HEIGHT IS LIMITED TO 12'-0" TO AVOID HIGH-PILED COMBUSTIBLE STORAGE CLASSIFICATION.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

BUILDING HEIGHTS AND AREA SHALL BE BASED ON OCCUPANCY S-1 BECAUSE IT IS THE MOST RESTRICTIVE OCCUPANCY FOR NONSEPARATED OCCUPANCIES.

OCCUPANCY B
HEIGHT (ALLOWABLE): 75'-0"
HEIGHT (ACTUAL): 20'-0"
NO. OF STORIES (ALLOWABLE): 4-STORIES
NO. OF STORIES (ACTUAL): 1-STORY
AREA (ALLOWABLE): 92,000 GSF
AREA: (ACTUAL): 18,156 GSF (BUILDING)

OCCUPANCY S-1
HEIGHT (ALLOWABLE): 75'-0"
HEIGHT (ACTUAL): 20'-0"
NO. OF STORIES (ALLOWABLE): 3-STORIES
NO. OF STORIES (ACTUAL): 1-STORY
AREA (ALLOWABLE): 70,000 GSF
AREA: (ACTUAL): 18,156 GSF (BUILDING)

FIRE PROTECTION: FULLY SPRINKLERED - EARLY SUPPRESSION FAST-RESPONSE (ESFR) SPRINKLER SYSTEM

CHAPTER 6 TYPES OF CONSTRUCTION

TYPE OF CONSTRUCTION: TYPE IIB [II (000)], (UNPROTECTED [NO FIREPROOFING])

TYPE II CONSTRUCTION IS TYPE OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS LISTED IN TABLE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN IBC 2022 ED.

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE IIB	NOTES
PRIMARY STRUCTURAL FRAME	0	
BEARING WALLS		
EXTERIOR	0	FIRE SEPARATION DISTANCE X>30
INTERIOR	0	

NONBEARING WALLS AND PARTITIONS		
EXTERIOR	0	
INTERIOR	0	
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE – TABLE 602

BEARING WALL – EXTERIOR: 0-HOURS @ 10'-0" (X > 30)
NONBEARING WALL – EXTERIOR: 0-HOURS @ 10'-0" (X > 30)

CHAPTER 9 FIRE PROTECTION AND LIFE SAFETY SYSTEMS

[F] 903.2.9 GROUP S-1
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS CONTAINING A GROUP S-1 OCCUPANCY WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. A GROUP S-1 FIRE AREA EXCEEDS 12,000 SQUARE FEET (1115 m²).

FIRE PROTECTION: FULLY SPRINKLERED - EARLY SUPPRESSION FAST-RESPONSE (ESFR) SPRINKLER SYSTEM

SECTION 906 PORTABLE FIRE EXTINGUISHERS

[F] 906.1 WHERE REQUIRED
PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING LOCATIONS:
1. IN GROUP A, B, E, F, H, I, M, R -1, R-2, R-4 AND **S** OCCUPANCIES.

3206.11 PORTABLE FIRE EXTINGUISHERS
PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 906.

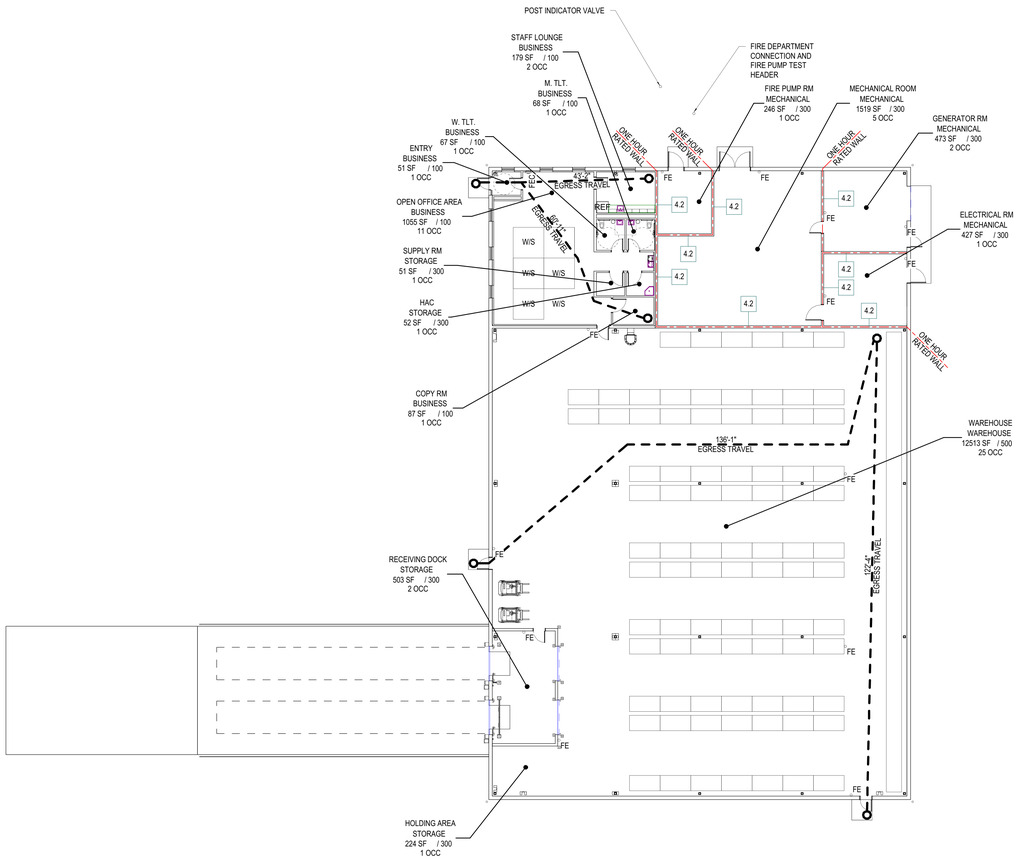
FIRE PUMP:
1-HOUR SEPARATION PROVIDED FOR FIRE PUMP ROOM PER NFPA 20 (2022) 4.14.1.1.2 AND TABLE 4.14.1.1.2 EQUIPMENT PROTECTION.

ELECTRICAL ROOM:
1-HOUR SEPARATION PROVIDED FOR ELECTRICAL ROOM PER NFPA 70 (2023) 450.42; EXCEPTION:
WHERE TRANSFORMERS ARE PROTECTED WITH AN AUTOMATIC SPRINKLER WATER SPRAY, CONSTRUCTION OF 1-HOUR RATING SHALL BE PERMITTED.

EMERGENCY LIGHTING:
EMERGENCY LIGHTING SYSTEM PROVIDED PER NFPA 70 (2023).

FIRE ALARM SYSTEM:
FIRE ALARM SYSTEM PROVIDED PER NFPA 70 (2023) AND NFPA 72 (2022).
PER NFPA 20 (2022), CHAPTER 4 - INDOOR FIRE PUMP ROOMS IN NON-HIGH-RISE BUILDINGS SHALL BE PHYSICALLY SEPARATED BY FIRE-RATED CONSTRUCTION OF 1-HOUR RATING IN SPRINKLERED BUILDING.

PER NFPA 70 (2023), CHAPTER 4 - EQUIPMENT FOR GENERAL USE, ARTICLE 450 TRANSFORMERS AND TRANSFORMER VAULTS (INCLUDING SECONDARY TIES), 450.42 WALLS, ROOFS, AND FLOORS. THE WALLS AND ROOFS OF VAULTS SHALL BE CONSTRUCTED OF MATERIALS WITH A MINIMUM FIRE RESISTANCE OF 3 HOURS.
EXCEPTION: WHERE TRANSFORMERS ARE PROTECTED WITH AUTOMATIC SPRINKLER, WATER SPRAY, CARBON DIOXIDE, OR HALON, CONSTRUCTION OF 1-HOUR RATING SHALL BE PERMITTED.



WALL TYPES

MARK	DESCRIPTION	RATG
4.2	8" CMU - UL U905/1-HR/STC-48	1-HR

LIFE SAFETY LEGEND

- OCCUPANCY COUNT AND DIRECTION OF EGRESS TRAVEL
- TRAVEL DISTANCE AND EGRESS PATH
- 1 HR — 1 HOUR RATED WALL ASSEMBLY
- 2 HR — 2 HOUR RATED WALL ASSEMBLY
- 3 HR — 3 HOUR RATED WALL ASSEMBLY
- 4 HR — 4 HOUR RATED WALL ASSEMBLY
- SMOKE — SMOKE RATED WALL ASSEMBLY

Name / Room Type / 150 SF / XXX / Occupant Load OCC
ROOM NAME
AREA NET OR GROSS/FLOOR AREA PER OCCUPANT
OCCUPANCY ACTUAL COUNT
OCCUPANCY/TABULAR COUNT

F3 LIFE SAFETY FLOOR PLAN
SCALE: 1/16" = 1'-0"

0 8' 16' 32'
PLAN NORTH

Revisions	Date

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	CODE INFORMATION
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Approved:	
	FULLY SPRINKLERED
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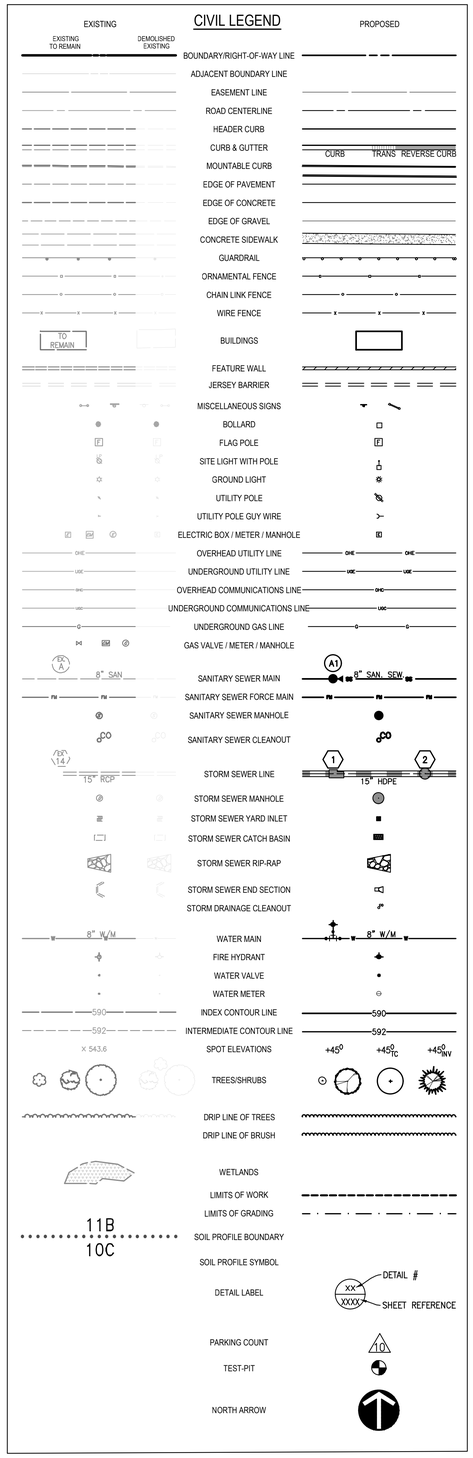
GENERAL NOTES:

1. PROPOSED SITE IMPROVEMENTS FOR 'BUTLER VETERANS AFFAIRS MEDICAL CENTER' INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTING A WAREHOUSE AND ASSOCIATED INFRASTRUCTURE, SANITARY SEWER SERVICE, WATER LINE SERVICE, REPLACE EXISTING CONDITIONS IN KIND, AND EROSION AND SEDIMENT CONTROLS. THE PROJECT IS LOCATED IN BUTLER, BUTLER COUNTY, PENNSYLVANIA.
2. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY EXPLORATION DATED JULY 19, 2023. THE HORIZONTAL COORDINATE SYSTEM IS THE PENNSYLVANIA SOUTH STATE PLANE COORDINATE SYSTEM (NAD83). THE VERTICAL DATUM IS NAVD88.
3. SEE THIS SHEET FOR LEGEND OF SYMBOLS AND ABBREVIATIONS USED HEREIN.
4. DUE TO THE SENSITIVE NATURE OF THE MEDICAL FACILITY SITE, CONTRACTOR SHALL MAINTAIN EACH WORK AREA IN A CLEAN AND ORDERLY APPEARANCE. TRASH AND WASTE MATERIALS SHALL BE STORED IN APPROVED CONTAINERS AND ROUTINELY DISPOSED OF OFF-SITE. CLEANUP SHALL BE REQUIRED AT THE END OF EACH DAY AND/OR MORE FREQUENTLY AS REQUIRED.
5. AFFECT OF WORK ON PUBLIC ACCESS SHALL BE MINIMAL AND SHALL BE COORDINATED WITH THE MEDICAL FACILITY DIRECTOR. ANY ALTERED PUBLIC TRAFFIC ROUTES SHALL BE WELL DEFINED WITH PROFESSIONALLY MADE SIGNAGE AND/OR OTHER APPROVED CONVENTIONAL METHODS. CONTRACTOR SHALL PROVIDE TWO SIGNS SIMILAR TO THE MEDICAL FACILITY'S "PARDON OUR APPEARANCE" SIGNS. SIZE TO BE A MINIMUM OF 4'X5' HIGH MOUNTED ON TWO 4"X4" POSTS, PLACED IN A LOCATION AS DETERMINED BY THE MEDICAL FACILITY COR. TEXT SIZE SHALL BE MAXIMUM SIZE PROPORTIONAL TO WIDTH/HEIGHT OF SIGN. TEXT WILL BE PROVIDED BY MEDICAL FACILITY COR.
6. THERE SHALL BE AT ALL TIMES WHEN WORK IS BEING DONE, A COMPETENT PERSON WHO IS APPRISED OF THE CONDITION AND PROGRESS OF ALL AREAS OF WORK ON SITE. THIS PERSON SHALL BE ABLE TO SPEAK FOR AND ACT IN THE BEHALF OF THE CONTRACTOR. THEY SHALL BE AWARE AND KNOWLEDGEABLE OF ALL THE SAFETY CONCERNS ON THE JOB SITE. THEY SHALL BE EMPOWERED TO IMMEDIATELY AND EFFECTIVELY MITIGATE THE ACTIONS OF ANY WORKMAN ON SITE.

CONSTRUCTION NOTES:

1. THE CONTRACTING OFFICER REPRESENTATIVE AND THE CONTRACTOR ARE RESPONSIBLE FOR REVIEWING THE CONSTRUCTION DOCUMENTS PRIOR TO CONSTRUCTION AND NOTIFYING THE U.S. DEPARTMENT OF VETERANS AFFAIRS OF ANY CIRCUMSTANCES FOUND WITHIN THESE PLANS IN NEED OF VERIFICATION SO THAT APPROPRIATE REVISIONS CAN BE MADE, IF WARRANTED.
2. DEVELOPMENT OF THE SITE INCLUDING CONSTRUCTION AND MATERIALS SHALL BE IN CONFORMANCE WITH THE U.S. DEPARTMENT OF VETERANS AFFAIRS REQUIREMENTS AND THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHERE APPLICABLE.
3. THE CONTRACTOR SHALL CONTACT PENNSYLVANIA 811 AND OBTAIN A DIG PERMIT FROM THE VA A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR OTHER EARTH DISTURBING ACTIVITIES WITHIN AREAS SERVED BY UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE PRESENCE OF ANY UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. EXISTING UNDERGROUND UTILITIES SHOWN HEREIN HAVE BEEN LOCATED FROM VISIBLE EVIDENCE AND RECORD DRAWINGS. THE UTILITIES SHOWN MAY OR MAY NOT REFLECT ALL UNDERGROUND UTILITIES IN SERVICE OR ABANDONED. UTILITIES SHOULD BE VERIFIED BY APPROPRIATE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. INTEGRITY FEDERAL SERVICES DOES NOT CERTIFY TO THE LOCATION OR THE EXISTENCE OF EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING CONSTRUCTION. THESE TEST HOLES WILL BE MADE TO VERIFY ALL CROSSINGS BETWEEN NEW AND EXISTING FACILITIES AND AT CRITICAL GRADE CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER AND COR IMMEDIATELY. ALSO, THE CONTRACTOR SHALL NOTIFY INTEGRITY FEDERAL SERVICES SO THAT APPROPRIATE REVISIONS, IF WARRANTED, CAN BE MADE TO THE PLANS AT THE GOVERNMENT'S EXPENSE.
5. CONTRACTOR MUST OBTAIN DIG PERMIT FROM BUTLER VAMC BEFORE ANY EXCAVATION TAKES PLACE. ANY EXCAVATIONS OVER 3'-11" WILL REQUIRE A CONFIDED SPACE PERMIT.
6. INTEGRITY FEDERAL SERVICES DOES NOT CERTIFY TO THE SUB-SURFACE CONDITIONS OF THE SITE, THE LOCATION OF UNDERLYING ROCK, OR THE LOCATION OF POTENTIAL SINKHOLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES TO VERIFY SUB-SURFACE CONDITIONS PRIOR TO BEGINNING ANY CONSTRUCTION. IF SINKHOLES ARE FOUND IN THE FIELD, REMEDIATION WILL BE REQUIRED AS SPECIFIED BY A QUALIFIED GEOTECHNICAL ENGINEERING FIRM.
7. ALL TESTS, STUDIES, ETC., REQUIRED DURING CONSTRUCTION WILL BE CARRIED OUT BY A THIRD PARTY ENGINEERING FIRM AND PAID FOR BY THE CONTRACTOR.
8. ALL PROPOSED GRADES AS SHOWN HEREIN ARE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLAN.
9. EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION. REFER TO EROSION AND SEDIMENT CONTROL PLANS FOR PHASING AND DETAILS.
10. ALL LAND ON OR OFF-SITE WHICH IS DISTURBED BY CONSTRUCTION AND WHICH IS NOT BUILT UPON OR SURFACED SHALL BE ADEQUATELY STABILIZED TO CONTROL EROSION AND SEDIMENTATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CONTRACTING OFFICER AND COR OF ANY CHANGES OR CONDITIONS ATTACHED TO PERMITS REQUIRED FOR CONSTRUCTION.
12. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR EQUIPMENT OF MUD AND DEBRIS, PRIOR TO ENTERING PAVED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS OF MUD AND/OR LAYING DUST AND TO TAKE ALL APPROPRIATE MEASURES NECESSARY TO ENSURE THAT STREETS ARE KEPT IN A CLEAN AND DUST FREE CONDITION AT ALL TIMES.
13. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CONTRACTING OFFICER OF ANY CONDITIONS FOUND IN THE FIELD PRIOR TO STAKEOUT THAT VARY FROM THE APPROVED PLANS OR THAT MAKE CONSTRUCTABILITY IMPOSSIBLE. ANY OBSERVATIONS REGARDING APPARENT INCONSISTENCIES IN THE PLANS SHALL BE BROUGHT TO THE CONTRACTING OFFICER'S AND COR ATTENTION FOR VERIFICATION PRIOR TO STAKEOUT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PERFORMANCE OF ITS WORK AND THE WORK OF ITS SUBCONTRACTORS. THE VA SHALL NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE WORK AREA AT ALL TIMES. TEMPORARY BARRICADES, ROAD CLOSURE SIGNAGE, FENCES AND OTHER WARNING DEVICES SHALL BE USED TO PREVENT PUBLIC ACCESS TO CONSTRUCTION WORK AREAS. VA MAINTENANCE OPERATIONS SHALL NOT BE UNDULY IMPEDED BY THE CONTRACTOR'S OPERATIONS.
17. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER AND COR SEVEN DAYS BEFORE ANY DEMOLITION WORK BEGINS. ANY PLANNED INTERRUPTIONS IN SERVICES SHALL BE COORDINATED WITH THE CONTRACTING OFFICER AT LEAST SEVEN DAYS IN ADVANCE.
18. THE CONTRACTOR SHALL CONFINE HIS EQUIPMENT AND OPERATIONS TO THE LIMITS OF CONSTRUCTION SHOWN. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE SAFETY AND SECURITY OF ALL MATERIALS AND EQUIPMENT ON SITE.
19. THE CONTRACTOR SHALL USE ONLY APPROVED ROADWAYS FOR CONSTRUCTION AND DELIVERY ACCESS. DAMAGE TO ANY AREAS OUTSIDE OF LIMITS OF WORK SHALL BE REPAIRED AT NO COST TO THE OWNER.
20. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF EXISTING GROUNDS DUE TO CONSTRUCTION ACTIVITY.THE CONTRACTOR SHALL OBTAIN ALL PERMITS PRIOR TO CONSTRUCTION ACTIVITY.
21. THE CONTRACTOR SHALL PHASE CONSTRUCTION TO MAINTAIN ACCESS TO ALL BUILDINGS DURING CONSTRUCTION.
22. CONTRACTOR SHALL PROVIDE PHASING PLAN FOR ALL ROAD CLOSURES FOR VAMC APPROVAL. CONTRACTOR SHALL MAINTAIN CAMPUS ACCESS THROUGHOUT CONSTRUCTION. CONTRACTOR TO PROVIDE TRAFFIC CONTROL SIGNAGE WHEN REQUIRED.
23. ALL EXCAVATION IN THE IMMEDIATE AREA OF EXISTING UTILITIES SHALL BE PERFORMED BY HAND AND WITH THE UTMOST CARE TO PROTECT EXISTING UTILITIES.
24. WORK WITH EXTREME CARE NEAR EXISTING DUCTS, CONDUITS, AND OTHER UTILITIES TO AVOID DAMAGING THEM.
25. PROTECT EXISTING SITE ELEMENTS TO REMAIN (TREES, UTILITIES, SIGNS, CURB, ETC) REPLACE IN KIND, IF DAMAGED. CONTRACTOR SHALL SALVAGE AND REPLACED ANY SITE SIGNS , FIXTURES, ETC. AS NEEDED TO COMPLETE THE INSTALLATION OF UTILITIES SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OR OTHER ITEMS DESIGNATED TO REMAIN.
26. TEST PITS ARE IDENTIFIED AT KNOWN EXISTING UTILITY CROSSINGS, BUT IN NO WAY LIMIT THE AMOUNT AND LOCATION OF TEST PITS REQUIRED TO BE PERFORMED BY THE CONTRACTOR. ELEVATIONS OF ALL EXISTING UTILITIES AT CROSSINGS WITH THE PROPOSED UTILITY PATHWAYS SHALL BE VERIFIED BY THE CONTRACTOR WITH A TEST PIT PRIOR TO ANY EXCAVATION AT NO EXPENSE TO THE GOVERNMENT.
27. COORDINATE ALL TEMPORARY UTILITY DISRUPTIONS WITH VAMC STAFF.
28. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED FOR CONSTRUCTION IN KIND WITHIN 14 DAY CALENDAR DAYS OF COMPLETING WORK IN THE SPECIFIC AREAS.
29. LIMITS OF DISTURBANCE ARE APPROXIMATE. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED. TURF SHALL BE RESTORED WITH A SOD ANYWHERE EXISTING TURF IS DISTURBED.
30. WHERE OPEN CUTTING OF PAVEMENT IS REQUIRED FOR INSTALLATION OF UTILITIES, CONTRACTOR SHALL REPLACE PAVEMENT TO MATCH EXISTING MATERIALS & DEPTHS. NEW PAVEMENT SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACES. ANY PAVEMENT MARKINGS DISTURBED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO EXPENSE TO THE GOVERNMENT.
31. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
32. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION
33. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF EXISTING THRUST BLOCKS WHICH ARE RESTRAINING EXISTING UTILITIES. EXISTING THRUST BLOCKS SHALL NOT BE UNDERMINED. ANY DISTURBED THRUST BLOCKS SHALL BE REPLACED AT NO COST TO THE GOVERNMENT.
34. EXISTING MAINS TO WHICH CONNECTIONS SHALL BE MADE ARE SIZED AND LOCATED IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY SIZE/TYPE OF CONNECTION WITH TEST PIT S AT THE BEGINNING OF THE PROJECT, AND ORDER MATERIALS ACCORDINGLY.
35. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS PRACTICABLE. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE STEEL PLATED WHEN THEY CANNOT BE IMMEDIATELY COVERED. UPON BACKFILLING THE CONTRACTOR SHALL BROOM SWEEP STREETS AND USE APPROPRIATE METHODS TO CONTROL DUST AND HOSE DOWN PAVEMENT TO KEEP SURFACES CLEAN. TRENCHES WITHIN THE ROADWAY SHALL BE BACKFILLED BY THE END OF EACH WORK DAY. WHERE FIRE ACCESS MUST BE MAINTAINED ON A STREET, CONTRACTOR SHALL ASSURE A MINIMUM 15' STABILIZED ROUTE AROUND THE EXCAVATION.
36. THE CONTRACTOR SHALL MAINTAIN RECORD DOCUMENTS OF CONSTRUCTION CHANGES ("AS-BUILT DRAWINGS") AND SHALL PROVIDE SAID DOCUMENTATION TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION IN BOTH DIGITAL AND HARD COPY FORMATS. RECORD DOCUMENTS SHALL ARTICULATE WHERE ACTUAL INSTALLATION OF WORK, PRODUCTS AND/OR SYSTEMS VARY FROM THE DESIGN INTENT EXPRESSED/SPECIFIED IN THE CONTRACTOR DOCUMENTS. **NO EXCEPTION ALLOWED**
37. STANDING WATER (PONDING) ON ANY FINISHED ASPHALT OR CONCRETE SURFACE IS UNACCEPTABLE AND SHALL BE REMOVED AND REPLACED AT NO COST TO THE GOVERNMENT.

CIVIL LEGEND



ABBREVIATIONS:

A	AREA OR ARC	FOY	FOYER	PP	POLYPROPYLENE (PLASTIC)
AC	ACRE	FP	FLAG POLE OR FIRE PROTECTION	PLA	PLASTIC PIPE
ADA	AMERICANS WITH DISABILITIES ACT	FPS	FEET PER SECOND	PPC	PRE-PLACED CRYPT
ADMIN	ADMINISTRATION	FR	FROM	PRC	POINT OF REVERSE CURVE
AGE	ABOVE GROUND ELECTRIC	FS	FILTER SOCK	PRELIM	PRELIMINARY
AGEC	ABOVE GROUND ELECTRIC CONDUIT	FT	FEET	POTW	PUBLICLY-OWNED TREATMENT WORKS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FWS	FLOWER WATERING STATION	PROP	PROPOSED
APPROX	APPROXIMATE			PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECTURAL	G	GAS	PSL	PIPE SLEEVE
ASPH	ASPHALT	GAL	GALLON	PT	POINT OF TANGENCY
AST	ABOVE-GROUND STORAGE TANK	GDR	GUARD RAIL	PTS	PASSIVE TREATMENT SYSTEM
ATS	ACTIVE TREATMENT SYSTEM	GEN	GENERATOR	PV	PRIVATE VAULT
AVE	AVENUE	GFA	GROSS FLOOR AREA	PVC	POLY VINYL CHLORIDE (PLASTIC PIPE)
AWWA	AMERICAN WATER WORKS ASSOCIATION	GIP	GALVANIZED IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
A/C	AIR CONDITIONING	GL	GROUND LEVEL	PVMT	PAVEMENT
		GOVT	GOVERNMENT	PVT	POINT OF VERTICAL TANGENCY
BC	BOTTOM OF CURB	GR	GRADE	P&P	PLAN AND PROFILE
BF	BASEMENT FLOOR	GR	GUARD RAIL		
BFP	BACKFLOW PREVENTER	GS	GROUND SHOT	Q	FLOW, AMOUNT OF RUNOFF
BFV	BUTTERFLY VALVE			Qf	EXTREME FLOOD VOLUME
BITUM	BITUMINOUS	H	HORIZONTAL	Qo	OVERBANK FLOOD PROTECTION VOLUME
BL	BASE LINE	HC	HANDICAP	QTR	QUARTER
BLDG	BUILDING	HCP	HANDICAPPED	QTY	QUANTITY
BLVD	BOULEVARD	HDPE	HIGH DENSITY POLYETHYLENE	QUAD	QUADRANT
BM	BENCHMARK, BASELINE MARKER	HDR	HEADER	QUAL	QUALITY
BMP	BEST MANAGEMENT PRACTICES	HDWL	HEADWALL		
BOE	BOTTOM OF EXCAVATION	HGL	HYDRAULIC GRADE LINE	R	RISER, RADIUS
BOV	BLOW OFF VALVE	HH	HAND HOLE	RAD	RADIANS
BRG	BEARING	HLBC	HOT LAID BITUMINOUS CONCRETE	RCN	RUNOFF CURVE NUMBER
BRL	BUILDING RESTRICTION LINE	HMA	MOT-MIX ASPHALT	RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
BV	BALL VALVE	HP	HIGH POINT OR HIGH PRESSURE	RD	ROAD, ROOF DRAIN
BW	BOTTOM OF WALL	HR	HAND RAIL	RDC	REDUCER
		HT	HEIGHT	RE	RESIDENT ENGINEER
C	COEFFICIENT OF RUNOFF	HW	HOT WATER	REP	REPAIR
CALC	CALCULATE	HWSR	HOT WATER SUPPLY & RETURN	REQ	REQUIRED
CB	CATCH BASIN OR CHORD BEARING	HWY	HIGHWAY	REV	REVISION
CC	CENTER TO CENTER	HYD	HYDRANT	REv	RECHARGE VOLUME
CCTV	CLOSED CIRCUIT TELEVISION	HYDR	HYDRAULIC	RGP	ROUGH GRADING PLAN
CD	CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS OR CHECK DAM	HWS	HOT WATER SUPPLY	RPA	RESOURCE PROTECTION AREA
CDW	CHILLED DRINKING WATER	HWR	HOT WATER RETURN	RR	RAILROAD
CDWR	CHILLED DRINKING WATER RETURN			RTE	ROUTE
CDWS	CHILLED DRINKING WATER SUPPLY	I	RAINFALL INTENSITY	RT	RIGHT
CE	CONSTRUCTION ENTRANCE	ID	INSIDE DIAMETER	RV	RELIEF VALVE
CEM	CEMENT OR CEMETERY	IGC	IN-GROUND CRYPT	RW	RETAINING WALL
CF	CONTRACTOR FURNISHED	IN	INCH	R/W	RIGHT-OF-WAY
CFS	CUBIC FEET PER SECOND OR COMPOST FILTER SOCK	INV	INVERT		
CG	CURB AND GUTTER	IP	IRON PIPE OR INLET PROTECTION	SAN	SANITARY
CHD	CHORD	IPF	IRON PIPE FOUND	SB	SPLASH BLOCK OR SEDIMENT BASIN
CIP	CAST IRON PIPE OR CULVERT INLET PROTECTION	IPS	IRON PIPE SET	SBL	SOUTH BOUND LANE
CJ	CONTRACTION JOINT	IRR	IRRIGATION	SCF	SEDIMENT CONTROL FENCE
CL	CENTERLINE, CLASS	IW	IRRIGATION WATER	SCHED	SCHEDULE
CMP	CORRUGATED METAL PIPE			SD	STORM DRAIN
CMU	CONCRETE MASONRY UNIT	JB	JUNCTION BOX	SDMH	STORM DRAIN MANHOLE
CN	CURVE NUMBER			SEC	SECTION
CND	CONDUIT	K	ONE THOUSAND (KILO)	SEG	SEGMENT
CNR	CORNER	KWY	KEYWAY	SEL	SELECT
CO	CLEANOUT			SEW	SEWER
COL	COLUMN	L	LENGTH	SF	SQUARE FEET OR SILT FENCE
COMM	COMMUNICATIONS	LAT	LATERAL	SSF	SUPER SILT FENCE
CONC	CONCRETE	LF	LINEAR FEET	SJ	SCORED JOINT
COND	CONDITION OR CONDENSER	LOC	LOCATION	SLV	SLEEVE
CONF	CONFERENCE	LONG	LONGITUDE	SM	SECTION MARKER
CONN	CONNECTION	LOS	LINE OF SIGHT	SMH	STEAM MANHOLE
CON	CONTAMINATED	LP	LOW POINT OR LOW PRESSURE	SOV	SHUT OFF VALVE
CONSTR	CONSTRUCTION	LT	LIGHT OR LEFT	SP	SITE PLAN
CONT	CONTINUATION	LL	LOWER LEVEL	SPEC	SPECIFICATION
CONTR	CONTRACT OR CONTRACTOR	LS	LIGHT STRUCTURE	SPKLR	SPRINKLER
COR	CONTRACTING OFFICER'S REPRESENTATIVE			SQ	SQUARE
COTG	CLEANOUT TO GRADE	M	MARKER	SS	SANITARY SEWER, STORM SEWER OR STEAM SUPPLY
COV	COVER OF CUT OFF VALVE	MAINT	MAINTENANCE	ST	STREET OR SEDIMENT TRAP
CPv	CHANNEL PROTECTION VOLUME	MAT	MATERIAL	STA	STATION
CPPE	CONSERVATION PRACTICE PHYSICAL EFFECTS	MAX	MAXIMUM	STD	STANDARD
CPP	CORRUGATED PLASTIC PIPE	MB	MAIL BOX	STE	STEAM
CRN	CROWN	MECH	MECHANICAL	STK	STACK
CSB	CONCRETE SPLASH BLOCK	MED	MEDIUM	STM	STORM
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	MEMO	MEMORANDUM	SUPT	SUPPORT
CSS	COMMITTAL SERVICE SHELTER	MEP	MECHANICAL, ELECTRICAL, PLUMBING	SURV	SURVEY
CSP	CONCRETE SEWER PIPE	MFG	MANUFACTURING	SVC	SERVICE
CT	COURT	MGT	MANAGEMENT	SWM	STORMWATER MANAGEMENT
CTR	CENTER OR CONTOUR	MH	MANHOLE	SW	SIDEWALK
CTRL	CONTROL	MI	MILE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
CTS	COOLING TOWER SUPPLY	MIN	MINIMUM	SWG	SEWAGE
CTV	CABLE TELEVISION	MISC	MISCELLANEOUS	Sx	CROSS SLOPE
CV	CONTROL VALVE	ML	MATERIALS LIST	SYM	SYMBOL
CW	CLOCKWISE OR CONCRETE WASHOUT	MN	MAGNETIC NORTH		
CWP	COLD WATER PIPING	MOD	MODEL OR MODIFY	T	TANGENT
CHWS	CHILLED WATER SUPPLY	MON	MONUMENT	T&M	TIME AND MATERIALS
CHWR	CHILLED WATER RETURN	MS	MEDIAN STRIP	TB	TEST BORE
		MSL	MEAN SEA LEVEL	TC	TOP OF CURB
D	DEPTH	MTG	MEETING	Tc	TIME OF CONCENTRATION
DAT	DATUM	MTL	MATERIAL	TCEQ	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DB	DEED BOOK; DESIGN-BUILD; DRAIN BASIN	MULT	MULTIPLE	TCP	TERRA COTTA PIPE, TRAFFIC CONTROL PLAN
DBL	DOUBLE	MUNIC	MUNICIPAL	TELE	TELEPHONE
DD	DIVERSION DIKE			TH	TEST HOLE
DEG	DEGREE	N	NORTH	TNL	TUNNEL
DEMO	DEMOLITION	N/F	NOW OR FORMERLY	TOB	TOP OF BANK
DEPT	DEPARTMENT	NA	NOT APPLICABLE	TOC	TOP OF CURB
DESC	DESCRIPTION	NAT	NATURAL	TOP	TOP OF PAVEMENT
DET	DETAIL	NATL	NATIONAL	TOPO	TOPOGRAPHY
DI	DROP INLET	NBC	NATIONAL BUILDING CODE	TP	TEST PIT, TELEPHONE POLE, OR TREE PROTECTION
DIA	DIAMETER	NBL	NORTH BOUND LANE	TPDES	TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM
DIFF	DIFFERENCE	NCA	NATIONAL CEMETERY ADMINISTRATION	TW	TOP OF WALL
DIP	DUCTILE IRON PIPE	NCPS	NATIONAL CONSERVATION PRACTICE STANDARDS	TXDOT	TEXAS DEPARTMENT OF TRANSPORTATION
DIST	DISTANCE	NCTCOG	NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS	TYP	TYPICAL
DM	DROP MANHOLE	NE	NOT EXCEEDING		
DOC	DOCUMENT	NFA	NET FLOOR AREA	UD	UNDERDRAIN
DOM	DOMESTIC	NHCP	NATIONAL HANDBOOK OF CONSERVATION PRACTICES	U/G	UNDERGROUND
DR	DRIVE	NIC	NOT IN CONTRACT	UGC	UNDERGROUND COMMUNICATIONS
DRE	DECOMPOSED ROCK ELEVATION	NO	NUMBER	UGE	UNDERGROUND ELECTRIC
DS	DOWNSPOUT	NOI	NOTICE OF INTENT	UFC	UNIFORM FIRE CODE
DWG	DRAWING	NOM	NOMINAL	UL	UPPER LEVEL
D/W	DRIVEWAY	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	UON	UNLESS OTHERWISE NOTED
D	DELTA	NRCP	NON-REINFORCED CONCRETE PIPE	UP	UTILITY POLE
		NRCS	NATURAL RESOURCES CONSERVATION SERVICE	USACE	U.S. ARMY CORPS OF ENGINEERS
EA	EACH	NTP	NOT TO PROCEED	USDA	U.S. DEPARTMENT OF AGRICULTURE
EBL	EAST BOUND LANE	NTS	NOT TO SCALE	UTIL	UTILITY
EC	EDGE OF CONCRETE				
ECL	EROSION CONTROL LOG	OC	ON CENTER	V	VERTICAL
EG	EDGE OF GUTTER	OCEW	ON CENTER EACH WAY	VA	VETERANS ADMINISTRATION, VIRGINIA
EJ	EXPANSION JOINT	OD	OUTSIDE DIAMETER	VAR	VARIES
ELEV	ELEVATION	OFB	ORGANIC FILTER BERM	VC	VERTICAL CURVE
ELEC	ELECTRICAL	OFD	OVERFLOW DRAIN	VEL	VELOCITY
ENTR	ENTRANCE	OFT	ORGANIC FILTER TUBE	VERT	VERTICAL
EOI	END OF INFORMATION	OH	OVERHANG	VF	VERTICAL FOOT
EP	EDGE OF PAVEMENT	OHC	OVERHEAD COMMUNICATIONS	VIC	VICINITY
EPA	ENVIRONMENTAL PROTECTION AGENCY	OHE	OVERHEAD ELECTRIC	VID	VIDEO
E&S	EROSION & SEDIMENT	OP	OUTLET PROTECTION	VIF	VERIFY IN FIELD
ES	END SECTION	OS	OVER-SIZED	VOL	VOLUME
ESMT	EASEMENT	OZ	OUNCE	VLT	VAULT
ETO	EARLY TURNOVER				
EPT	EXTERNAL PIPE THREAD	P	PERIMETER, RAINFALL DEPTH	W	WATER, WEST OR WIDE
EQ	EQUAL	PAR	PARALLEL	W/	WITH
EW	END WALL	PAT	PATTERN	W/O	WITHOUT
EXP	EXPANSION	PB	PULL BOX	WBL	WEST BOUND LANE
EX	EXISTING	PC	POINT OF CURVATURE	WI	WROUGHT IRON
EXT	EXTERIOR	PCA	PORTLAND CEMENT ASSOCIATION	WL	WATER LINE
		PCC	POINT OF COMPOUND CURVE	WM	WATER MAIN OR WATER METER
FAR	FLOOR AREA RATIO	PCEP	POINT OF CURVE, EDGE OF PAVEMENT	WO	WORK ORDER
FC	FACE OF CURB	PCT	PERCENT	WQv	WATER QUALITY VOLUME
FD	FOUNTAIN DRAIN	PCTC	POINT OF CURVE, TOP OF CURB	WSE	WATER SURFACE ELEVATION
FF	FIRST FLOOR OR FINISHED FLOOR	PERF	PERFORATED	WT	WATER TIGHT
FG	FINISHED GRADE	PED	PEDESTAL	WW	WASTE WATER
FH	FIRE HYDRANT	PG	PAGE		
FIN	FINISHED	PGL	POINT OF GRADE LINE	X-ING	CROSSING
FLR	FLOOR	PH	PROFILE HOLE		
FN	FENCE	PI	POINT OF INTERSECTION	YI	YARD INLET
FP	FLOOD PLAIN	PIC	PUBLIC INFORMATION CENTER	YR	YEAR
FOC	FACE OF CURB	PIV	POST INDICATOR VALVE		
FOTG	FIELD OFFICE TECHNICAL GUIDE	PL	PROPERTY LINE	Z	SIDE SLOPES
		POTW	POTABLE WATER		

Revisions	Date

CONSULTANT

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JASON P. GERHART —

Geotechnical Engineering Report
VISN Warehouse | Butler, Pennsylvania
December 18, 2023 | Terracon Project No. N6235192

Site Location

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Facilities | Environmental | **Geotechnical** | Materials

Geotechnical Engineering Report
VISN Warehouse | Butler, Pennsylvania
December 18, 2023 | Terracon Project No. N6235192

Exploration Plan

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Facilities | Environmental | **Geotechnical** | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

Boring Log No. B-1

Location: See Exploration Plan
Latitude: 40.8728° Longitude: -79.9467°

Depth (Ft.)	Elevation: 1284 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
0.5	**TOPSOIL (6")** 1283.5								
3	**LEAN CLAY (CL)**, brown and gray, medium stiff to very stiff, contains rootlets from 1.0-2.5'								
2.8	1278.25								
	Auger Refusal at 5.75 Feet	5		Grab	18	1-1-3 N=4	1.25 (HP)	29.3	41-24-17
					18	4-6-8 N=14	4.5+ (HP)		

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
Grab Dry cave in at 2.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | **Geotechnical** | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

Boring Log No. B-2

Location: See Exploration Plan
Latitude: 40.8726° Longitude: -79.9464°

Depth (Ft.)	Elevation: 1289 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
0.5	**TOPSOIL (6")** 1288.5								
3	**SILT (ML)**, brown, stiff				16	2-3-4 N=7	2.5 (HP)	16.1	35-25-10
3.5	1285.5			Grab					
	LEAN CLAY WITH SAND (CL), brown and gray, hard	5			18	9-11-15 N=26	4.5+ (HP)	15.5	37-24-13
6.0	1283			Grab					
	SANDY LEAN CLAY (CL), brown, hard				18	12-17-20 N=37	4.5+ (HP)	6.4	
8.5	1280.5								
	SHALE, brown and gray, highly weathered, very weak				6	40-50/3"		7.0	NP
10.5	1278.5	10							
	Auger Refusal at 10.5 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
Grab Dry cave in at 4.5'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | **Geotechnical** | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

Boring Log No. B-3

Location: See Exploration Plan
Latitude: 40.8724° Longitude: -79.9470°

Depth (Ft.)	Elevation: 1285 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
0.5	**TOPSOIL (6")** 1284.5								
3	**LEAN CLAY (CL)**, brown and gray, very stiff				16	2-3-8 N=11	4.5+ (HP)		
3.5	1281.5			Grab					
	LEAN CLAY WITH SAND (CL), brown, hard, contains weathered shale fragments	5			18	6-10-14 N=24	4.5+ (HP)		
6.0	1279			Grab					
	SHALE, brown, highly weathered, very weak				18	7-13-30 N=43			
	-gray below 8.5'				6	50/6"			
15.5	1269.5	15			6	50/6"			
	Auger Refusal at 15.5 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
Grab Dry cave in at 4.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | **Geotechnical** | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

Boring Log No. B-4

Location: See Exploration Plan
Latitude: 40.8722° Longitude: -79.9466°

Depth (Ft.)	Elevation: 1290 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
0.5	**TOPSOIL (6")** 1289.5								
3	**LEAN CLAY (CL)**, brown, very stiff				14	4-4-8 N=12	4.5+ (HP)	18.5	
3.5	1286.5			Grab					
	SHALE, gray, highly weathered, very weak	5			18	13-14-14 N=28			
7.5	1282.5			Grab					
	Auger Refusal at 7.5 Feet				9	23-50/3"			33-23-10

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
Grab Dry cave in at 5.5'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | **Geotechnical** | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

Boring Log No. B-5

Location: See Exploration Plan
Latitude: 40.8729° Longitude: -79.9469°

Depth (Ft.)	Elevation: 1283 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
0.5	**TOPSOIL (6")** 1282.5								
3	**LEAN CLAY (CL)**, brown and gray, medium stiff				12	2-2-2 N=4	4.25 (HP)	23.9	
3.5	1279.5			Grab					
	GRAVELLY LEAN CLAY WITH SAND (CL), brown, hard	5			8	4-8-16 N=24	4.25 (HP)	13.5	
6.0	1277			Grab					
	SHALE, brown with gray, highly weathered, very weak				12	6-15-16 N=31			
9.9	1273.08				17	9-18-50/5"			
	Boring Terminated at 9.92 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
Grab Dry cave in at 6.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-21-2023
Boring Completed 11-21-2023

Facilities | Environmental | **Geotechnical** | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

Boring Log No. B-6

Location: See Exploration Plan
Latitude: 40.8724° Longitude: -79.9464°

Depth (Ft.)	Elevation: 1293 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
0.5	**TOPSOIL (6")** 1292.5								
3	**LEAN CLAY WITH SAND (CL)**, brown, stiff				12	2-3-3 N=6	1.5 (HP)		
3.5	1289.5			Grab					
	LEAN CLAY (CL), brown, very stiff	5			18	6-9-10 N=19	3.75 (HP)		
6.0	1287			Grab					
	SHALE, brown and gray, highly weathered, very weak				18	16-24-35 N=59			
10.0	1283	10			18	6-16-16 N=32			
	Boring Terminated at 10 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
Grab Dry cave in at 3.5'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | **Geotechnical** | Materials

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File Path

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	GEOTECHNICAL SOIL BORING LOGS
Phase	BID DOCUMENTS
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number	529-314
Building Number	
Approved:	
Location	BUTLER, PA
Issue Date	06/02/2025
Checked	JPG
Drawn	JMM
Drawing Number	BL001

VA FORM 08 - 6231

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

Terracon
12460 Plaza Dr
Parma, OH

Boring Log No. B-7

Location: See Exploration Plan
Latitude: 40.8725° Longitude: -79.9473°
Elevation: 1282 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Description	Elevation	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
1		0.5	**TOPSOIL (6")**	1281.5							
3			**LEAN CLAY WITH SAND (CL)**, brown with gray, very stiff to hard, contains rootlets				14	2-5-10 N=15	3.75 (HP)		
					▽ DRILL						
							18	6-11-16 N=27	4.25 (HP)		
4		6.0	**SHALE**, brown, highly weathered, very weak	1276			18	18-22-34 N=56			
			-gray below 8.5'								
		10.0	***Boring Terminated at 10 Feet***	1272			18	19-21-32 N=53			

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
▽ DRILL Dry cave in at 3.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

Terracon
12460 Plaza Dr
Parma, OH

Boring Log No. B-8

Location: See Exploration Plan
Latitude: 40.8727° Longitude: -79.9476°
Elevation: 1282 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Description	Elevation	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
1		0.0	**AGGREGATE (12")**	1281							
2		1.0	**FILL - CLAYEY SAND WITH GRAVEL**, gray				12	4-8-8 N=16		14.3	
		1.5	**LEAN CLAY (CL)**, gray, medium stiff, contains rootlets	1278.5							
					▽ DRILL		10	3-2-3 N=5	2.5 (HP)		
3		6.0	**LEAN CLAY WITH SAND (CL)**, brown with gray, very stiff	1276			12	4-7-7 N=14	3.25 (HP)		
		10.0	***Boring Terminated at 10 Feet***	1272			18	4-6-11 N=17	3.5 (HP)		

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
▽ DRILL Dry cave in at 4.5'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-21-2023
Boring Completed 11-21-2023

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

Terracon
12460 Plaza Dr
Parma, OH

Boring Log No. B-9

Location: See Exploration Plan
Latitude: 40.8725° Longitude: -79.9471°
Elevation: 1284 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Description	Elevation	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
1		0.5	**TOPSOIL (6")**	1283.5							
3			**LEAN CLAY (CL)**, brown, very stiff				12	3-5-7 N=12	4.5+ (HP)		
		3.5	**SHALE**, brown, highly weathered, very weak	1280.5	▽ DRILL						
4							18	8-16-19 N=35			
			-gray below 8.5'				18	11-16-39 N=55			
		10.0	***Boring Terminated at 10 Feet***	1274				23-41-50/4"			

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
▽ DRILL Dry cave in at 4.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

Terracon
12460 Plaza Dr
Parma, OH

Boring Log No. I-1

Location: See Exploration Plan
Latitude: 40.8729° Longitude: -79.9467°
Elevation: 1283 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Description	Elevation	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
1		0.3	**TOPSOIL (4")**	1282.67							
3			**LEAN CLAY**, brown and gray, stiff, contains rootlets				18	2-3-4-5 N=7	3.25 (HP)		
					▽ DRILL		18	1-2-4-6 N=6	2.25 (HP)		
		4.0	**SHALE**, brown, highly weathered, very weak	1279							
4		6.0	***Boring Terminated at 6 Feet***	1277			18	5-4-19-21 N=23			

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
Groundwater not encountered
▽ DRILL Dry cave in at 2.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-21-2023
Boring Completed 11-21-2023

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

Terracon
12460 Plaza Dr
Parma, OH

Boring Log No. I-2

Location: See Exploration Plan
Latitude: 40.8724° Longitude: -79.9474°
Elevation: 1282 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Description	Elevation	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	HP (tsf)	Water Content (%)	Atterberg Limits LL-PL-PI
1		0.5	**TOPSOIL (6")**	1281.5							
3			**LEAN CLAY (CL)**, brown, stiff				18	2-2-4-6 N=6	4.25 (HP)		40-23-17
		2.0	**LEAN CLAY WITH SAND (CL)**, brown, hard	1280	▽ DRILL						
							18	3-12-16-17 N=28	4.25 (HP)		
		6.0	***Boring Terminated at 6 Feet***	1276			18	7-12-14-15 N=26	4.0 (HP)		

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.

Notes
Elevation Reference: Elevations taken from US Department of Veteran Affairs Grading Plan dated 8/4/23

Water Level Observations
▽ 3.0' While drilling
▽ DRILL Dry cave in at 2.0'
Advancement Method
3.25" HSA
Abandonment Method
Boring backfilled with auger cuttings upon completion.

Drill Rig CME 55
Hammer Type Automatic
Driller C. Brunmage
Logged by K. Helton
Boring Started 11-22-2023
Boring Completed 11-22-2023

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

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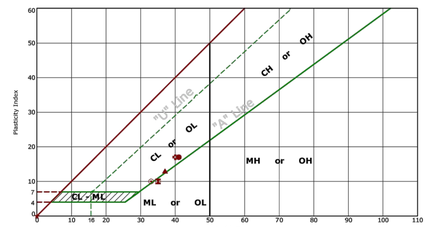
Atterberg Limit Results
ASTM D4318



	Boring ID	Depth (Ft)	LL	PL	PI	Fines	USCS	Description
●	B-1	1 - 2.5	41	24	17	87.5	CL	LEAN CLAY
■	B-2	1 - 2.5	35	25	10			SILT
▲	B-2	3.5 - 5	37	24	13			LEAN CLAY WITH SAND
★	B-2	8.5 - 9.3	NP	NP	NP			SHALE
◎	B-4	6 - 6.8	33	23	10			SHALE
◆	I-2	0 - 2	40	23	17			LEAN CLAY

Laboratory tests are not valid if separated from original report.

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
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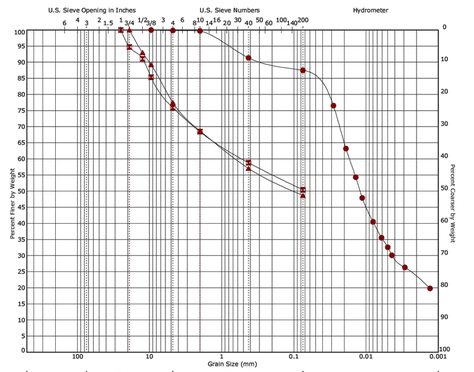
Grain Size Distribution
ASTM D422 / ASTM C136



	Boring ID	Depth (Ft)	Description	LL	PL	PI	Cc	Cu
●	B-1	1 - 2.5	LEAN CLAY	41	24	17		
■	B-5	3.5 - 5	GRAVELLY LEAN CLAY WITH SAND					
▲	B-8	1 - 2.5	CLAYEY SAND WITH GRAVEL					

	Boring ID	Depth (Ft)	D_{100}	D_{60}	D_{30}	D_{10}	%Cobbles	%Gravel	%Sand	%Fines	%Silt	%Clay
●	B-1	1 - 2.5	9.5	0.017	0.004		0.0	0.2	12.4		54.9	32.6
■	B-5	3.5 - 5	25	0.516			0.0	24.1	25.5	50.4		
▲	B-8	1 - 2.5	19	0.63			0.0	22.5	28.8	48.7		

Laboratory tests are not valid if separated from original report.

Facilities | Environmental | Geotechnical | Materials

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

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12460 Plaza Dr
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General Notes

Sampling

Standard Penetration Test

Water Level

- Water Initially Encountered
- Water Level After a Specified Period of Time
- Water Level After a Specified Period of Time
- DRILL Cave In Encountered

Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.

Field Tests

N	Standard Penetration Test Resistance (Blows/Ft.)
(HP)	Hand Penetrometer
(T)	Torvane
(DCP)	Dynamic Cone Penetrometer
UC	Unconfined Compressive Strength
(PID)	Photo-Ionization Detector
(OVA)	Organic Vapor Analyzer

Descriptive Soil Classification

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Location And Elevation Notes

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

Strength Terms

Relative Density of Coarse-Grained Soils (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance		Consistency of Fine-Grained Soils (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance		
Relative Density	**Standard Penetration or N-Value (Blows/Ft.)**	**Consistency**	**Unconfined Compressive Strength Qu (tsf)**	**Standard Penetration or N-Value (Blows/Ft.)**
Very Loose	0 - 3	Very Soft	less than 0.25	0 - 1
Loose	4 - 9	Soft	0.25 to 0.50	2 - 4
Medium Dense	10 - 29	Medium Stiff	0.50 to 1.00	4 - 8
Dense	30 - 50	Stiff	1.00 to 2.00	8 - 15
Very Dense	> 50	Very Stiff	2.00 to 4.00	15 - 30
		Hard	> 4.00	> 30

Relevance of Exploration and Laboratory Test Results

Exploration/field results and/or laboratory test data contained within this document are intended for application to the project as described in this document. Use of such exploration/field results and/or laboratory test data should not be used independently of this document.

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Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title: GEOTECHNICAL SOIL BORING LOGS
Phase: BID DOCUMENTS
Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number: 529-314
Building Number:
Approved:
Location: BUTLER, PA
Drawing Number: BL002
Issue Date: 06/02/2025
Checked: JPG
Drawn: JMM

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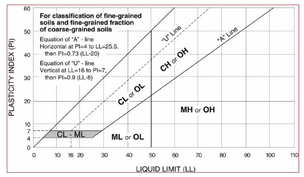
VA FORM 08 - 6231

Unified Soil Classification System

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]			Soil Classification	
			Group Symbol	Group Name [B]
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	**Gravels:** More than 50% of coarse fraction retained on No. 4 sieve	**Clean Gravels:** Less than 5% fines [C]	Cu≥4 and 1≤Cc≤3 [E]	GW	Well-graded gravel [F]
			Cu<4 and/or [Cc<1 or Cc>3.0] [E]	GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH	GM	Silty gravel [F, G, H]
			Fines classify as CL or CH	GC	Clayey gravel [F, G, H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	**Clean Sands:** Less than 5% fines [D]	Cu≥6 and 1≤Cc≤3 [E]	SW	Well-graded sand [I]
			Cu<6 and/or [Cc<1 or Cc>3.0] [E]	SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH	SM	Silty sand [G, H, I]
			Fines classify as CL or CH	SC	Clayey sand [G, H, I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	**Silts and Clays:** Liquid limit less than 50	**Inorganic:**	PI > 7 and plots above "A" line [J]	CL	Lean clay [K, L, M]
			PI < 4 or plots below "A" line [J]	ML	Silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OL	Organic clay [K, L, M, N] Organic silt [K, L, M, O]
	Silts and Clays: Liquid limit 50 or more	**Inorganic:**	PI plots on or above "A" line	CH	Fat clay [K, L, M]
			PI plots below "A" line	MH	Elastic silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OH	Organic clay [K, L, M, P] Organic silt [K, L, M, Q]
Highly organic soils:		Primarily organic matter, dark in color, and organic odor		PT	Peat

[A] Based on the material passing the 3-inch (75-mm) sieve.
[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay. Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
[D] $Cu = D_{60}/D_{10}$ $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
[E] If soil contains ≥ 15% sand, add "with sand" to group name.
[F] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
[G] If fines are organic, add "with organic fines" to group name.
[H] If soil contains ≥ 15% gravel, add "with gravel" to group name.
[I] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
[J] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
[K] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
[L] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
[M] PI ≥ 4 and plots on or above "A" line.
[N] PI < 4 or plots below "A" line.
[O] PI plots on or above "A" line.
[P] PI plots below "A" line.



Rock Classification Notes

WEATHERING	
Term	**Description**
Fresh	Mineral crystals appear bright; show no discoloration. Features show little or now staining on surfaces. Discoloration does not extend into intact rock.
Slightly weathered	Rock generally fresh except along fractures. Some fractures stained and discoloration may extend <0.5 inches into rock.
Moderately weathered	Significant portions of rock are dull and discolored. Rock may be significantly weaker than in fresh state near fractures. Soil zones of limited extent may occur along some fractures.
Highly weathered	Rock dull and discolored throughout. Majority of rock mass is significantly weaker and has decomposed and/or disintegrated; isolated zones of stronger rock and/or soil may occur throughout.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The rock mass or fabric is still evident and largely intact. Isolated zones of stronger rock may occur locally.

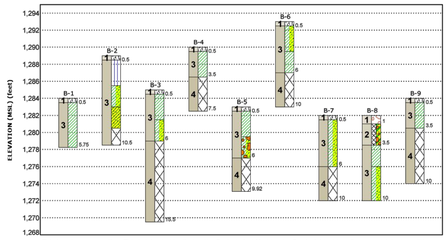
STRENGTH OR HARDNESS		
Description	**Field Identification**	**Uniaxial Compressive Strength, psi**
Extremely strong	Can only be chipped with geological hammer. Rock rings on hammer blows. Cannot be scratched with a sharp pick. Hand specimens require several hard hammer blows to break.	>36,000
Very strong	Several blows of a geological hammer to fracture. Cannot be scratched with a 20d common steel nail. Can be scratched with a geologist's pick only with difficulty.	15,000-36,000
Strong	More than one blow of a geological hammer needed to fracture. Can be scratched with a 20d nail or geologist's pick. Gouges or grooves to ¼ inch deep can be excavated by a hard blow of a geologist's pick. Hand specimens can be detached by a moderate blow.	7,500-15,000
Medium strong	One blow of geological hammer needed to fracture. Can be distinctly scratched with 20d nail. Can be grooved or gouged 1/16 in. deep by firm pressure with a geologist's pick point. Can be fractured with single firm blow of geological hammer. Can be excavated in small chips (about 1-in. maximum size) by hard blows of the point of a geologist's pick;	3,500-7,500
Weak	Shallow indent by firm blow with geological hammer point. Can be gouged or grooved readily with geologist's pick point. Can be excavated in pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.	700-3,500
Very weak	Crumbles under firm blow with geological hammer point. Can be excavated readily with the point of a geologist's pick. Pieces 1-in. or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.	150-700

DISCONTINUITY DESCRIPTION			
Fracture Spacing (Joints, Faults, Other Fractures)		**Bedding Spacing (May Include Foliation or Banding)**	
Description	**Spacing**	**Description**	**Spacing**
Intensely fractured	< 2.5 inches	**Laminated**	< ½ inch
Highly fractured	2.5 – 8 inches	**Very thin**	½ – 2 inches
Moderately fractured	8 inches to 2 feet	**Thin**	2 inches – 1 foot
Slightly fractured	2 to 6.5 feet	**Medium**	1 – 3 feet
Very slightly fractured	> 6.5 feet	**Thick**	3 – 10 feet
		Massive	> 10 feet

ROCK QUALITY DESIGNATION (RQD) [1]	
Description	**RQD Value (%)**
Very Poor	0 - 25
Poor	25 – 50
Fair	50 – 75
Good	75 – 90
Excellent	90 - 100

1. The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percent age of the total core run length.

GeoModel



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Surface Cover	Topsoil or Aggregate
2	Fill	Sand
3	Cohesive Soil	Stiff silt or medium stiff to hard clay
4	Bedrock	Highly weathered and very weak shale

Legend: Topsoil; Lean Clay; Silt; Lean Clay with Sand; Sandy Lean Clay; Weathered Rock; Gravelly Lean Clay with Sand; Aggregate Base Course; Clayey Sand with Gravel

▽ First Water Observation

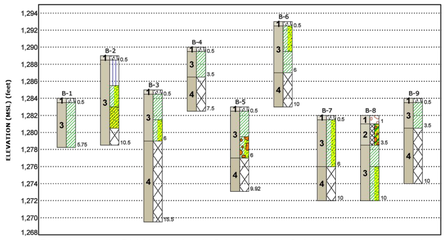
Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time.
Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project.
Numbers adjacent to soil column indicate depth below ground surface.

VISN Warehouse
325 New Castle Road | Butler, PA
Terracon Project No. N6235192

12460 Plaza Dr
Parma, OH

GeoModel



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Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project.
Numbers adjacent to soil column indicate depth below ground surface.

Revisions	Date

File Path: 6/14/2009 12:39:03 PM

VA FORM 08 - 6231

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REGISTERED PROFESSIONAL
JASON P. OSBURN
PE078142
6-2-25

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	GEOTECHNICAL SOIL BORING LOGS
Approved:	
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Location	BUTLER, PA
Issue Date	06/02/2025
Checked	JPG
Drawn	JMM
Project Number	529-314
Building Number	
Drawing Number	BL003

MATCHLINE
SEE SHEET XP102

MATCHLINE
SEE SHEET XP102

GRAPHICAL SCALE: 1"=20'

NORTH

SURVEY NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY EXPLORATION DATED JULY 19, 2023. THE HORIZONTAL COORDINATE SYSTEM IS THE PENNSYLVANIA SOUTH STATE PLANE COORDINATE SYSTEM (NAD83). THE VERTICAL DATUM IS NAVD88.

2. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVATIONS, UTILITY MARKING FOUND IN THE FIELD, AND/OR INFORMATION SUPPLIED BY THE UTILITY COMPANIES. SINCE NO PHYSICAL LOCATION OF UNDERGROUND FACILITIES HAVE BEEN MADE BY THE UNDERSIGNED, NO GUARANTEE IS BEING MADE FOR THEIR COMPLETENESS OR ACCURACY.

EXISTING CONDITIONS LEGEND:

LOC ---------- LIMITS OF CONSTRUCTION

STORM SEWER (BY RECORD) PIPE WAS NOT ABLE TO BE LOCATED WITH A FIELD INVESTIGATION

STORM SEWER (BY RECORD) PIPE WAS NOT ABLE TO BE LOCATED WITH A FIELD INVESTIGATION

Revisions	Date

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JASON P. GERHARD
ENGINEER
PE078142
6-2-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING CONDITIONS PLAN	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
			Building Number:
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Drawing Number: XP101
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	

File Path: 6/14/2009 12:39:03 PM

VA FORM 08 - 6231

20 10 0 20 40 60

GRAPHICAL SCALE: 1"=20'

NORTH

SURVEY NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY EXPLORATION DATED JULY 19, 2023. THE HORIZONTAL COORDINATE SYSTEM IS THE PENNSYLVANIA SOUTH STATE PLANE COORDINATE SYSTEM (NAD83). THE VERTICAL DATUM IS NAVD88.

2. ANY UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVATIONS, UTILITY MARKING FOUND IN THE FIELD, AND/OR INFORMATION SUPPLIED BY THE UTILITY COMPANIES. SINCE NO PHYSICAL LOCATION OF UNDERGROUND FACILITIES HAVE BEEN MADE BY THE UNDERSIGNED, NO GUARANTEE IS BEING MADE FOR THEIR COMPLETENESS OR ACCURACY.

EXISTING CONDITIONS LEGEND:

LOC ---------- LIMITS OF CONSTRUCTION

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File Path

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JASON P. GERHART ENGINEER PE078142 6-2-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING CONDITIONS PLAN	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number:
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	Drawing Number: XP102

SEEDING AND FERTILIZER SPECIFICATIONS

TABLE 11.2
Soil Amendment Application Rate Equivalents

Soil Amendment	Permanent Seeding Application Rate Per Acre	Per 1,000 sq. ft.	Per 1,000 sq. yd.	Notes
Agricultural lime	6 tons	240 lb.	2,480 lb.	Or as per soil test; may not be required in agricultural fields
10-10-20 fertilizer	1,000 lb.	25 lb.	210 lb.	Or as per soil test; may not be required in agricultural fields
Temporary Seeding Application Rate				
Agricultural lime	1 ton	40 lb.	410 lb.	Typically not required for topsoil stockpiles
10-10-10 fertilizer	500 lb.	12.5 lb.	100 lb.	Typically not required for topsoil stockpiles

Adapted from Penn State, "Erosion Control and Conservation Plantings on Noncropland"

NOTE: A compost blanket which meets the standards of this chapter may be substituted for the soil amendments shown in Table 11.2.

TABLE 11.3
Plant Tolerances of Soil Limitation Factors

Species	Growth Habit[1]	Tolerates: Wet Soil	Dry Site	Low Fertility	Acid Soil (pH 5-5.5)[2]	Minimum Seed Specifications[3]: Purity (%)	Ready Germ (%)	Hard Seed (%)	Total Germ (%)	Seeds/lb (1,000s)
Warm-Season Grasses										
Deertongue	bunch	yes	yes	yes	yes	95	75		75	250
Weeping lovegrass	bunch	no	yes	yes	yes	97	75		75	1,500
Switchgrass[4]	bunch	yes	yes	yes	yes		(60 PLS)		(60 PLS)	300
Big bluestem	bunch	no	yes	yes	yes		(60 PLS)		(60 PLS)	150
Cool-Season Grasses										
Tall Fescue	bunch	yes	no	yes	no	95	80		80	227
Redtop	sod	yes	yes	yes	yes	92	80		80	5,000
Fine fescues	sod	no	no	yes	no	95	80		80	400
Perennial ryegrass	bunch	yes	no	yes	no	95	85		85	227
Annual ryegrass	bunch	yes	no	yes	no	95	85		85	227
Kentucky bluegrass	sod	no	no	no	no	85	75		75	2,200
Reed canarygrass	sod	yes	yes	yes	no	95	70		70	520
Orchardgrass	bunch	yes	yes	yes	yes	95	80		80	654
Timothy	bunch	yes	no	yes	yes	95	80		80	1,230
Smooth bromegrass	sod	no	yes	yes	no	95	80		80	136
Legumes[5]										
Crownvetch	sod	no	yes	yes	no	98	40	30	65	120
Birdsfoot trefoil[6]	bunch	yes	no	yes	yes	98	60	20	80	400
Flatpea	sod	no	no	yes	yes	98	55	20	75	10
Sericea lespedeza	bunch	no	yes	yes	yes	98	60	20	80	335
Cereals										
Winter wheat	bunch	no	no	no	no	98	85		85	15
Winter rye	bunch	no	no	yes	yes	98	85		85	18
Spring oats	bunch	no	no	no	no	98	85		85	13
Sundangrass	bunch	no	yes	no	no	98	85		85	55
Japanese millet	bunch	yes	no	yes	yes	98	80		80	156

[1] Growth habit refers to the ability of the species to either form a dense sod by vegetative means (stolons, rhizomes, or roots) or remain in a bunch or single plant form. If seeded heavily enough, even bunch formers can produce a very dense stand. This is sometimes called a sod, but not in the sense of a sod formed by vegetative means.

[2] Once established, plants may grow at a somewhat lower pH, but cover generally is only adequate at pH 6.0 or above.

[3] *Minimum seed lots are truly minimum, and seed lots to be used for revegetation purposes should equal or exceed these standards.* Thus, deertongue grass should germinate 75% or better. Crownvetch should have at least 40% readily germinable seed and 30% hard seed. Commonly, seed lots are available that equal or exceed minimum specifications. Remember that disturbed sites are adverse for plant establishment. Ready germination refers to seed that germinates during the period of the germination test and that would be expected, if conditions are favorable, to germinate rapidly when planted. The opposite of ready germination is dormant seed, of which hard seed is one type.

[4] Switchgrass seed is sold only on the basis of PLS.

[5] Need specific legume inoculant. Inoculant suitable for garden peas and sweetpeas usually is satisfactory for flatpea.

[6] Birdsfoot trefoil is adapted over the entire state, except in the extreme southeast where crown and root rots may injure stands.

TABLE 11.4
Recommended Seed Mixtures

Mixture Number	Species	Seeding Rate - Pure Live Seed[1]: Most Sites	Adverse Sites
1[2]	Spring oats (spring), or	64	96
	Annual ryegrass (spring or fall), or	10	15
	Winter wheat (fall), or	90	120
	Winter rye (fall)	56	112
2[3]	Tall fescue, or	60	75
	Fine fescue, or	35	40
	Kentucky bluegrass, plus	25	30
	Redtop[4], or	3	3
	Perennial ryegrass	15	20
3	Birdsfoot trefoil, plus	6	10
	Tall fescue	30	35
4	Birdsfoot trefoil, plus	6	10
	Reed canarygrass	10	15
	Crownvetch, plus	10	15
5[5]	Tall fescue, or	20	25
	Perennial ryegrass	20	25
6[5,6]	Crownvetch, plus	10	15
	Annual ryegrass	20	25
7[5]	Birdsfoot trefoil, plus	6	10
	Crownvetch, plus	10	15
	Tall fescue	20	30
8	Flatpea, plus	20	30
	Tall fescue, or	20	30
	Perennial ryegrass	20	25
9[5]	Sericea lespedeza, plus	10	20
	Tall fescue, plus	20	25
	Redtop[4]	3	3
10	Tall fescue, plus	40	60
	Fine fescue	10	15
11	Deertongue, plus	15	20
	Birdsfoot trefoil	6	10
12[7]	Switchgrass, or	15	20
	Big Bluestem, plus	15	20
	Birdsfoot trefoil	6	10
13	Orchardgrass, or	20	30
	Smooth bromegrass, plus	25	35
	Birdsfoot trefoil	6	10

Penn State, "Erosion Control and Conservation Plantings on Noncroplans"

1. PLS is the product of the percentage of pure seed times percentage germination divided by 100. For example, to secure the actual planting rate for switchgrass, divide 12 pounds PLS shown on the seed tag. Thus, if the PLS content of a given seed lot is 35%, divide 12 PLS by 0.35 to obtain 34.3 pounds of seed required to plant one acre. All mixtures in this table are shown in terms of PLS.
2. If high-quality seed is used, for most sites seed spring oats at a rate of 2 bushels per acre, winter wheat at 11.5 bushels per acre, and winter rye at 1 bushel per acre. If germination is below 90%, increase these suggested seeding rates by 0.5 bushel per acre.
3. This mixture is suitable for frequent mowing. Do not cut shorter than 4 inches.
4. Keep seeding rate to that recommended in table. These species have many seeds per pound and are very competitive. To seed small quantities of small seeds such as weeping lovegrass and redtop, dilute with dry sawdust, sand, rice hulls, buckwheat hulls, etc.
5. Use for highway slopes and similar sites where the desired species after establishment is crownvetch.
6. Use only in extreme southeastern or extreme southwestern Pennsylvania. *Sericea lespedeza* is not well adapted to most of PA.
7. Do not mow shorter than 6 to 10 inches.
8. Seed mixtures containing crown vetch should not be used in areas adjacent to wetlands or stream channels due to the invasive nature of this species.

TABLE 11.5
Recommended Seed Mixtures for Stabilizing Disturbed Areas

Site Condition	Nurse Crop	Seed Mixture (Select one mixture)
Slopes and Banks (not mowed)		
Well-drained	1 plus	3, 6, 8, or 12[7]
Variable drainage	1 plus	3 or 7
Slopes and Banks (mowed)		
Well-drained	1 plus	2 or 10
Slopes and Banks (grazed/hay)		
Well-drained	1 plus	2, 3, or 13
Gullies and Eroded Areas	1 plus	3, 5, 7, or 12[7]
Erosion Control Facilities (BMPs)		
Sod waterways, spillways, frequent water flow areas	1 plus	2, 3, or 4
Drainage ditches		
Shallow, less than 3 feet deep	1 plus	2, 3, or 4
Deep, not mowed	1 plus	5 or 7
Pond banks, dikes, levees, dams, diversion channels, And occasional water flow areas		
Mowed areas	1 plus	2 or 3
Non-mowed areas	1 plus	5 or 7
For hay or silage on diversion channels and occasional water flow areas	1 plus	3 or 13
Highways [8]		
Non-mowed areas		
Pure crownvetch[5]	1 plus	5 or 9
Well-drained	1 plus	5, 7, 8, 9, or 10
Variable drained	1 plus	3 or 7
Poorly drained	1 plus	3 or 4
Areas mowed several times per year	1 plus	2, 3, or 10
Utility Right-of-way		
Well-drained	1 plus	5, 8, or 12[7]
Variable drained	1 plus	3 or 7
Well-drained areas for grazing/hay	1 plus	2, 3, or 13
Effluent Disposal Areas	1 plus	3 or 4
Sanitary Landfills	1 plus	3, 5, 7, 11[7], or 12[7]
Surface mines		
Spoils, mine wastes, fly ash, slag, settling basin Residues and other severely disturbed areas (time to soil test)	1 plus	3, 4, 5, 7, 8, 9, 11[7], or 12[7]
Severely disturbed areas for grazing/hay	1 plus	3 or 13

Penn State, "Erosion Control and Conservation Plantings on Noncropland"

1. For seed mixtures 11 and 12, only use spring oats or weeping lovegrass (included in mix) as nurse crop.
2. Contact the Pennsylvania Department of Transportation district roadside specialist for specific suggestions on treatment techniques and management practices.
3. Seed mixtures containing crown vetch should not be used in areas adjacent to wetlands or stream channels due to the invasive nature of this species.

MULCH SPECIFICATIONS

Mulches should be applied at the rates shown in Table 11.6

Straw and hay mulch should be anchored or tackified immediately after application to prevent being windblown. A tractor-drawn implement may be used to "crimp" the straw or hay into the soil — about 3 inches. This method should be limited to slopes no steeper than 3H:1V. The machinery should be operated on the contour. Note: Crimping of hay or straw by running over it with tracked machinery is not recommended.

Polymeric and gum tackifiers mixed and applied according to manufacturer's recommendations may be used to tack mulch. Avoid application during rain and on windy days. A 24-hour curing period and a soil temperature higher than 45° F are typically required. Application should generally be heaviest at edges of seeded areas and at crests of ridges and banks to prevent loss by wind. The remainder of the area should have binder applied uniformly. Binders may be applied after mulch is spread or sprayed into the mulch as it is being blown onto the soil. Applying straw and binder together is generally more effective.

Synthetic binders, or chemical binders, may be used as recommended by the manufacturer to anchor mulch provided sufficient coucmentation is provided to show they are non-toxic to native plant and animal species.

Mulch on slopes of 8% or steeper should be held in place with netting. Lightweight plastic, fiber, or paper nets may be stapled over the mulch according to manufacturer's recommendations.

Shredded paper hydromulch should not be used on slopes steeper than 6%. Wood fiber hydromulch may be applied on steeper slopes provided a tackifier is used. The application rate for any hydromulch should be 2,000 lb/acre at a minimum.

TABLE 11.6
Mulch Application Rates

Mulch Type	Application Rate (Min.): Per Acre	Per 1,000 sq. ft.	Per 1,000 sq. yd.	Notes
Straw	3 tons	140 lb.	1,240 lb.	Either wheat or oat straw, free of weeds, not chopped or finely broken
Hay	3 tons	140 lb.	1,240 lb.	Timothy, mixed clover and timothy or other native forage grasses
Wood Chips	4 - 6 tons	185 - 275 lb.	1,650 - 2,500 lb.	May prevent germination of grasses and legumes
Hydromulch	1 ton	47 lb.	415	See limitations above

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE BUTLER TOWNSHIP E&S INSPECTOR SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE BUTLER TOWNSHIP INSPECTOR MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE CONTRACTING OFFICER REPRESENTATIVE (COR) SHALL INVITE ALL CONTRACTORS, THE VA MEDICAL CENTER DIRECTOR, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE E&S PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. THE CONTRACTOR SHALL NOTIFY, AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM BUTLER TOWNSHIP PRIOR TO IMPLEMENTATION.
5. PRIOR TO COMMENCING CLEARING AND GRADING, CONTRACTOR TO INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS.
6. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
7. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
8. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF WORK BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
9. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATIVE. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE BUTLER TOWNSHIP.
11. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE BUTLER TOWNSHIP REGULATIONS.
12. ALL OFF-SITE WASTE AND BORROW AREAS (IF APPLICABLE) MUST HAVE AN E&S PLAN APPROVED BY BUTLER TOWNSHIP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
13. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED Y THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
14. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S SHALL BE MAINTAINED IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED WITHIN 24 HOURS. IF THE E&S BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INITIAL BMP'S, ARE REQUIRED TO CORRECT THE PROBLEM WITHIN 48 HOURS.
16. A LOG SHOWING DATES THAT E&S BMP'S WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL SPECIFICATIONS, REQUIREMENTS, OR CODES.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28. E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE BUTLER TOWNSHIP.
29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE RE/COR SHALL REVIEW SITE FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMP'S.
30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP'S MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMP'S SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE RE/COR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
33. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE BUTLER TOWNSHIP.
34. THE SOIL EROSION WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENTS BY THE CONTRACTOR.

SEQUENCE OF EARTHMOVING ACTIVITIES AND BMP INSTALLATION AND REMOVAL

1. ESTABLISH PERIMETER CONTROL
1.1 PROVIDE ROCK CONSTRUCTION ENTRANCES.
1.2 PROVIDE DIVERSION AND SUPER SILT FENCE AROUND CONSTRUCTION LIMITS

2. SITE PREPARATION
2.1 PROVIDE FOR SITE REMOVALS
2.2 STRIP AND STOCKPILE TOPSOIL

3. EARTHWORK
3.1 BEGIN AT LOW END OF SITE.
3.2 PROVIDE DEWATERING.
3.3 PROVIDE FOR SUB-SURFACE DRAINAGE.
3.4 PROVIDE FOR SWM ITEMS.

4. UPSTREAM CONVEYANCE SYSTEM
4.1 BEGIN AT LOW END OF SITE.
4.2 PROVIDE RIPRAP.

5. SITE STABILIZATION
5.1 PROVIDE EARTHWORK AND GRADING TO SHAPE REMAINDER OF SITE.
5.2 PROVIDE SUBBASE FOR PAVED AREAS.
5.2.2 PROVIDE STABILIZATION BLANKET, TOPSOIL AND SEED FOR ALL SLOPED AREAS STEEPER THAN 1V:4H.

6. SITE IMPROVEMENTS
6.1 PROVIDE ALL PERMANENT LANDSCAPING AS INDICATED
6.2 PROVIDE REMAINING SITE IMPROVEMENTS (INCLUDES FINISHED PAVING) RESTORE ALL DISTURBED AREAS.

7. BMP REMOVALS
7.1 AFTER ALL EXPOSED AREAS ARE STABILIZED AS INDICATED.
7.1.1 REMOVE SUPER SILT FENCE.
7.1.2 REMOVE INLET PROTECTION.

8. MAINTENANCE
8.1 PRIOR TO ANTICIPATED RAIN EVENTS AND AFTER ALL RAIN EVENTS CHECK BMP MEASURES AND RESTORE INTEGRITY OF SAME.
8.2 BARE SPOTS OR WASHED OUT AREAS SHALL BE REWORKED TO ENSURE PROPER SEED GERMINATION AND STABILIZATION.
8.3 PROVIDE FOR REMOVAL OF SEDIMENT ALONG ROADWAYS.

9. DURATION
9.1 ESTABLISH PERIMETER CONTROLS 10 TO 15 DAYS
9.2 SITE PREPARATION 5 TO 10 DAYS
9.3 EARTHWORK 20 TO 45 DAYS
9.4 UPSTREAM CONVEYANCE SYSTEM 20 TO 45 DAYS
9.5 SITE STABILIZATION 15 TO 20 DAYS
9.6 SITE IMPROVEMENTS 25 TO 35 DAYS
9.7 BMP REMOVALS 10 TO 15 DAYS

BMP MAINTENANCE PROGRAM CONSTRUCTION PHASE

ROCK CONSTRUCTION ENTRANCE - RCE

1 RESPONSIBILITY
1.1 CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE ROCK CONSTRUCTION ENTRANCE DURING THE CONSTRUCTION PHASE

2. MAINTENANCE REQUIREMENTS
2.1 INSPECTION
INSPECT CONDITION OF ROCK CONSTRUCTION ENTRANCE DAILY.
2.2 MAINTAIN SPECIFIED THICKNESS AND DIMENSIONS OF ROCK CONSTRUCTION ENTRANCE.
2.3 PROVIDE ROCK STOCKPILE FOR REPLENISHING ROCK.
2.4 ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.
2.5 THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND.
2.6 ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.
2.7 WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES.
2.8 ALL OTHER ENTRANCE POINTS, WHICH ARE NOT STABILIZED, SHALL BE BLOCKED OFF.

3. DISPOSAL
3.1 RETURN ALL ACCUMULATED SEDIMENT BACK TO THE CONSTRUCTION SITE, USE IN AREAS THAT REQUIRE COMMON FILL AND STABILIZE WITH VEGETATIVE COVER.
3.2 DISPOSE OF TRASH AND DELETERIOUS MATERIAL IN A LAWFUL MANNER.

BMP MAINTENANCE PROGRAM CONSTRUCTION PHASE

INLET PROTECTION - INP

1. RESPONSIBILITY
1.1 CONTRACTOR IS RESPONSIBLE FOR MAINTAINING INLET PROTECTION DURING THE CONSTRUCTION PHASE.

2. MAINTENANCE REQUIREMENTS
2.1 INSPECTION
INSPECT CONDITION OF INLET PROTECTION WEEKLY AND AFTER EACH RUNOFF EVENT. NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER THE INSPECTION.
2.2 CLEAN AND/OR REPLACE FILTER BAGS WHEN THE BAG IS ONE HALF FULL.
2.3 REPLACE DAMAGED FILTER BAGS.

3. DISPOSAL
3.1 RETURN ALL ACCUMULATED SEDIMENT BACK TO THE CONSTRUCTION SITE. USE IN AREAS THAT REQUIRE COMMON FILL AND STABILIZE WITH VEGETATIVE COVER. DISPOSE OF TRASH AND DELETERIOUS MATERIAL IN A LAWFUL MANNER.

VEGETATIVE COVER - VC

1. RESPONSIBILITY
1.1 CONTRACTOR IS RESPONSIBLE FOR MAINTAINING VEGETATIVE COVER THE CONSTRUCTION PHASE.

2. MAINTENANCE REQUIREMENTS
2.1 INSPECTION
INSPECTION CONDITION OF VEGETATIVE COVER WEEKLY AND AFTER EACH RUNOFF EVENT. NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER THE INSPECTION.
2.2 REPAIR NEWLY FORMED CHANNELS OR GULLIES.
2.3 RE-SEED OR SOD BARE SPOTS.
2.4 MOW TO A MINIMUM HEIGHT OF 4 INCHES.
2.5 REMOVE ALL UNWANTED VEGETATION, TRASH AND DELETERIOUS MATERIAL.

3. DISPOSAL
3.1 RETURN ALL ACCUMULATED SEDIMENT BACK TO THE CONSTRUCTION SITE. USE IN AREAS THAT REQUIRE COMMON FILL AND STABILIZED WITH VEGETATIVE COVER.
3.2 DISPOSE OF TRASH AND DELETERIOUS MATERIAL IN A LAWFUL MANNER.

CLEAN FILL NOTE

1. CONTRACTOR SHALL CONFORM TO THE PADEP CLEAN FILL POLICY. ALL FILL IS SUBJECT TO ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF IT IS CLEAN FILL.

2. CLEAN FILL IS DEFINED BY THE PADEP AS UNCONTAMINATED, NON-WATER-SOLUBLE, NONDECOMPOSABLE INERT SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH. (25 PA CODE SECTIONS 271.101 AND 287.101) THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED.

3. ENVIRONMENTAL DUE DILIGENCE IS DEFINED BY THE PADEP AS INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF OWNERSHIP AND USE HISTORY OF PROPERTY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

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File Path

Revisions	Date

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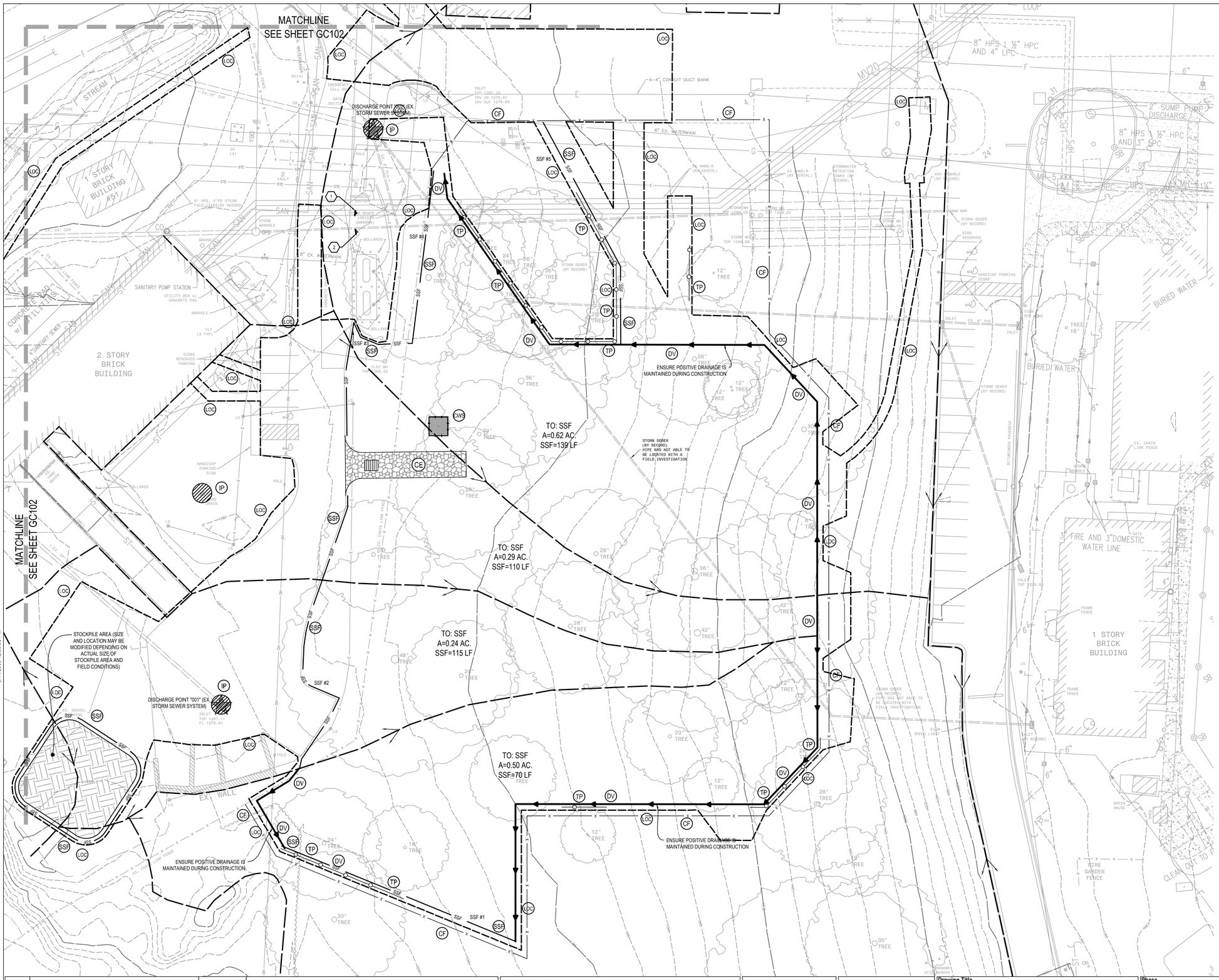
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	EROSION AND SEDIMENT CONTROL NOTES
Phase	BID DOCUMENTS
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number	529-314
Approved:	
	FULLY SPRINKLERED
Location	BUTLER, PA
Building Number	
Issue Date	06/02/2025
Checked	JPG
Drawn	JMM
Drawing Number	GC100

VA FORM 08 - 6231



EROSION CONTROL NOTES:

1. IN AREAS WHERE NO STABILIZED CONSTRUCTION IS PROVIDED: PRIOR TO VEHICLES LEAVING THE WORK AREAS SITE OR ENTERING A PUBLIC RIGHT-OF-WAY, WHEELS SHALL BE CLEANED OR WASHED TO REMOVE SEDIMENT. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING, OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.
2. TRANSPORTATION OF CONSTRUCTION MATERIAL ARE TO BE COORDINATED WITH THE COR. ALL CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE STORED OFFSITE.
3. CONTRACTOR TO COORDINATE CONSTRUCTION SIGN, SAFETY SIGNS, AND TRAFFIC CIRCULATION WITH THE COR.
4. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION FENCE AND THE LOCATION SHALL FOLLOW THE LIMITS OF WORK AS SHOWN ON THE DEMOLITION PLAN. ANY ADDITIONAL AREAS NEEDED SHALL BE COORDINATED WITH THE COR.
5. NON-PAVED AREAS SHOULD BE STABILIZED WITH PERMANENT SEEDING AND STRAW. THE GRASS SHOULD MATCH THE EXISTING SPECIES. CONTRACTOR TO INSTALL SIX MONTH BIODEGRADABLE MESH OVER SCARIFIED SOIL, SEED, AND STRAW.
6. REFER TO EROSION AND SEDIMENT CONTROL NARRATIVE ON CG100.

EROSION AND SEDIMENT CONTROL LEGEND

GRAPHIC	DESCRIPTION	DETAIL/PG
	DRAINAGE DIVIDE	
LOC	LIMITS OF CONSTRUCTION	
CE	STONE CONSTRUCTION ENTRANCE WITH WASH RACK	1/2 QC501
CWS	CONCRETE WASHOUT	1 QC502
IP	INLET PROTECTION	5/6 QC501
DV	DIVERSION DIKE	3 QC501
TP	TREE PROTECTION	7/8 QC501
SSF	REINFORCED SILT FENCE	4 QC501
CF	TEMPORARY CONSTRUCTION FENCE	3 QC502
1	CONSTRUCTION SIGN	4 QC507
2	SAFETY SIGN	5 QC502
	DISCHARGE POINT	
SSF 3SS	STOCKPILE AREA	

RECEIVING SURFACE WATER
LITTLE CONNOQUENESSING CREEK - CH. 93 CLASS: CWF

Revisions	Date

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REGISTERED PROFESSIONAL
JASON P. GERHARD
ENGINEER
PE037814?
2-25

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: EROSION AND SEDIMENT CONTROL PLAN	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number:
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	Drawing Number: GC101

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GRAPHICAL SCALE: 1"=20'

NORTH

EROSION CONTROL NOTES:

1. IN AREAS WHERE NO STABILIZED CONSTRUCTION IS PROVIDED: PRIOR TO VEHICLES LEAVING THE WORK AREAS SITE OR ENTERING A PUBLIC RIGHT-OF-WAY, WHEELS SHALL BE CLEANED OR WASHED TO REMOVE SEDIMENT. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING, OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.
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5. NON-PAVED AREAS SHOULD BE STABILIZED WITH PERMANENT SEEDING AND STRAW. THE GRASS SHOULD MATCH THE EXISTING SPECIES. CONTRACTOR TO INSTALL SIX MONTH BIODEGRADABLE MESH OVER SCARIFIED SOIL, SEED, AND STRAW.
6. REFER TO EROSION AND SEDIMENT CONTROL NARRATIVE ON CG100.

EROSION AND SEDIMENT CONTROL LEGEND

GRAPHIC	DESCRIPTION	DETAIL/PG
	DRAINAGE DIVIDE	
LOC	LIMITS OF CONSTRUCTION	
CE	STONE CONSTRUCTION ENTRANCE WITH WASH RACK	1/2 QC501
CWS	CONCRETE WASHOUT	1 QC502
IP	INLET PROTECTION	5/6 QC501
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TP	TREE PROTECTION	7/8 QC501
SSF	REINFORCED SILT FENCE	4 QC501
CF	TEMPORARY CONSTRUCTION FENCE	3 QC502
1	CONSTRUCTION SIGN	4 QC502
2	SAFETY SIGN	5 QC502
	DISCHARGE POINT	
SSS	STOCKPILE AREA	

RECEIVING SURFACE WATER
LITTLE CONNOQUENESSING CREEK - CH. 93 CLASS: CWF

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File Path:

Revisions	Date

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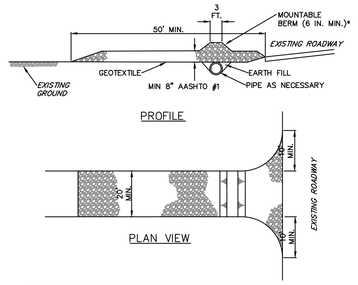
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	EROSION AND SEDIMENT CONTROL PLAN
Phase	BID DOCUMENTS
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number	529-314
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	BUTLER, PA
Issue Date	06/02/2025
Checked	JPG
Drawn	JMM
Drawing Number	GC102



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

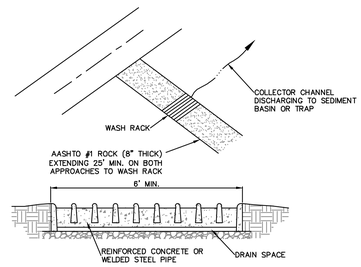
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE

1 NOT TO SCALE



NOTES:

WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

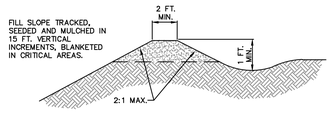
WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-2
ROCK CONSTRUCTION ACCESS WITH WASH RACK

2 NOT TO SCALE



SECTION VIEW

NOTES:

TEMPORARY BERMS SHALL BE PLACED, MAINTAINED, AND ADJUSTED CONTINUOUSLY UNTIL 90% VEGETATIVE GROWTH IS ESTABLISHED ON THE EXTERIOR SLOPES WITH PERMANENT STORM DRAINAGE FACILITIES FUNCTIONING.

BERMS SHALL OUTLET TO SLOPE PIPES, CHANNELS, OR OTHER APPROVED MEANS OF CONVEYING RUNOFF TO A SEDIMENT TRAP, SEDIMENT BASIN, OR COLLECTOR CHANNEL.

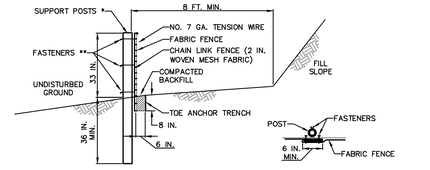
CHANNEL BEHIND BERM SHALL HAVE POSITIVE GRADE TO OUTLET AND AN APPROPRIATE PROTECTIVE LINING.

BERM SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.

AN ACCEPTABLE ALTERNATIVE TO TOP-OF-SLOPE BERM IS TO CONTINUOUSLY GRADE THE TOP OF FILL TO DIRECT RUNOFF AWAY FROM THE FILLSLOPE TO A COLLECTOR CHANNEL, SEDIMENT TRAP, OR SEDIMENT BASIN.

STANDARD CONSTRUCTION DETAIL #6-4
TOP OF SLOPE BERM

3 NOT TO SCALE



SECTION VIEW JOINING FENCE SECTIONS

* POSTS SPACED AT 10 FT. MAX. USE 2-1/2 IN. DIA HEAVY DUTY GALVANIZED OR ALUMINUM POSTS.

** CHAIN LINK TO POST FASTENERS SPACED AT 14 IN. MAX. USE NO. 9 GA. ALUMINUM WIRE OR NO. 9 GALVANIZED STEEL WIRE. FABRIC TO SHAIN FASTENERS SPACED AT 24 IN. MAX. ON CENTER.

NOTES:

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 42 IN. MINIMUM.

POSTS SHALL BE INSTALLED USING A POSTHOLE DRILL.

CHAIN LINK SHALL BE GALVANIZED NO. 11.5 GA. STEEL WIRE WITH 2-1/4 IN. OPENING, NO. 11 GA. ALUMINUM COATED STEEL WIRE IN ACCORDANCE WITH ASTM-A-491, OR GALVANIZED NO. 9 GA. STEEL WIRE TOP AND BOTTOM WITH GALVANIZED NO. 11 GA. STEEL INTERMEDIATE WIRES. NO. 7 GAGE TENSION WIRE TO BE INSTALLED HORIZONTALLY THROUGH HOLES AT TOP AND BOTTOM OF CHAIN-LINK FENCE OR ATTACHED WITH HOG RINGS AT 5 FT MAX. CENTERS.

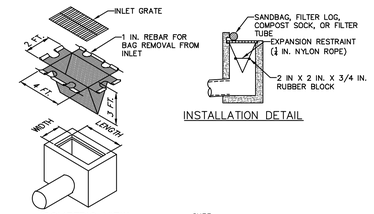
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

STANDARD CONSTRUCTION DETAIL #4-10
SUPER SILT FENCE

4 NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

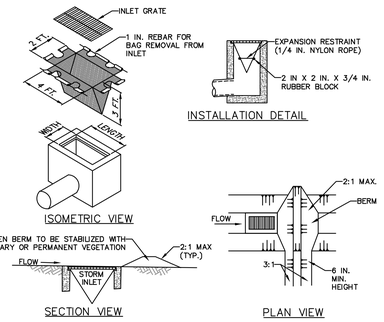
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE. BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-15
FILTER BAG INLET PROTECTION - TYPE C INLET

5 NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

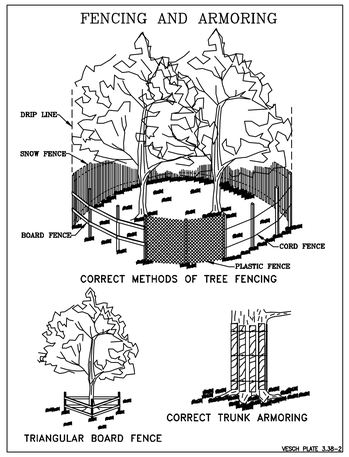
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

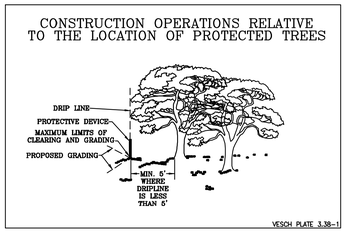
STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET

6 NOT TO SCALE



TREE PROTECTION DETAIL

7 NOT TO SCALE



TREE PROTECTION DETAIL

8 NOT TO SCALE

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON P. GERHART
Sackett
PE078142
6-2-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

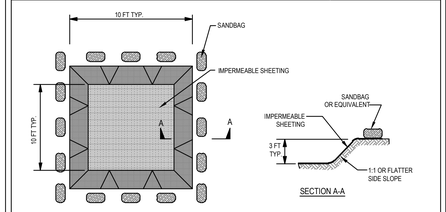
Drawing Title	EROSION AND SEDIMENT CONTROL DETAILS
Approved:	
Phase	BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Location	BUTLER, PA
Issue Date	06/02/2025
Checked	JPG
Drawn	JMM
Project Number	529-314
Building Number	
Drawing Number	GC501

File Path: 6/14/2009 12:39:03 PM

VA FORM 08 - 6231

DETAIL H-6 ONSITE CONCRETE WASHOUT STRUCTURE

STANDARD SYMBOL: CWS

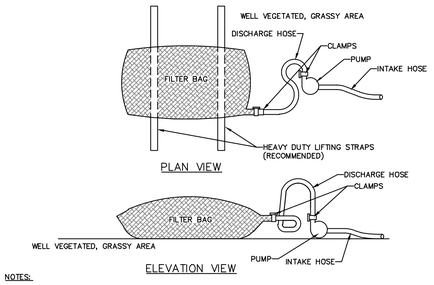


1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

1 CONCRETE WASHOUT
NOT TO SCALE



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

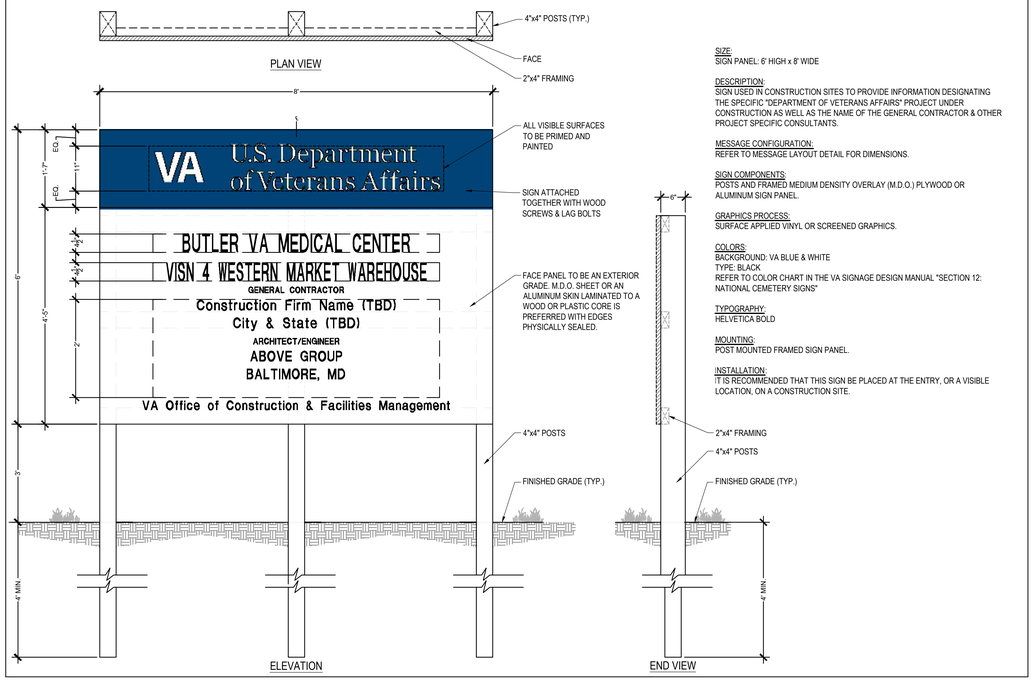
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG

2 NOT TO SCALE



SIZE:
SIGN PANEL: 6' HIGH x 8' WIDE

DESCRIPTION:
SIGN USED IN CONSTRUCTION SITES TO PROVIDE INFORMATION DESIGNATING THE SPECIFIC "DEPARTMENT OF VETERANS AFFAIRS" PROJECT UNDER CONSTRUCTION AS WELL AS THE NAME OF THE GENERAL CONTRACTOR & OTHER PROJECT SPECIFIC CONSULTANTS.

MESSAGE CONFIGURATION:
REFER TO MESSAGE LAYOUT DETAIL FOR DIMENSIONS.

SIGN COMPONENTS:
POSTS AND FRAMED MEDIUM DENSITY OVERLAY (M.D.O.) PLYWOOD OR ALUMINUM SIGN PANEL.

GRAPHICS PROCESS:
SURFACE APPLIED VINYL OR SCREENED GRAPHICS.

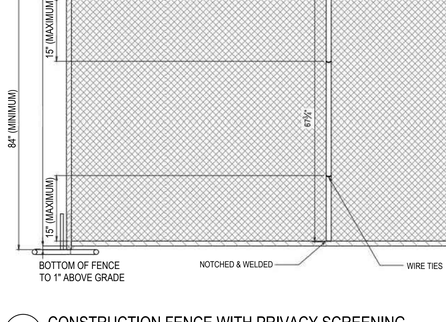
COLORS:
BACKGROUND: VA BLUE & WHITE
TYPE: BLACK
REFER TO COLOR CHART IN THE VA SIGNAGE DESIGN MANUAL "SECTION 12: NATIONAL CEMETERY SIGNS"

TYPOGRAPHY:
HELVETICA BOLD

MOUNTING:
POST MOUNTED FRAMED SIGN PANEL.

INSTALLATION:
IT IS RECOMMENDED THAT THIS SIGN BE PLACED AT THE ENTRY, OR A VISIBLE LOCATION, ON A CONSTRUCTION SITE.

4 CONSTRUCTION SIGN
NOT TO SCALE



CONSTRUCTION FENCE NOTES:

1. BEFORE CONSTRUCTION OPERATIONS BEGIN, THE CONTRACTOR SHALL PROVIDE A CHAIN LINK CONSTRUCTION FENCE, SEVEN FEET MINIMUM HEIGHT, AROUND AREAS OF ACTIVE CONSTRUCTION. THE TEMPORARY FENCING SHALL ENCOMPASS THE CONSTRUCTION WORK AREA(S) TO SERVE AS A PEDESTRIAN BARRIER TO ALERT VA PATRONS OF THE CONSTRUCTION SITE.

2. THE CONSTRUCTION FENCE SHALL BE PROVIDED WITH PRIVACY SCREENING MATERIALS TO PRODUCE A VISUAL BARRIER TO THE PUBLIC FROM THE ADJOINING BUILDINGS INTO THE CONTRACTOR WORK AREAS. THE VISUAL BARRIER SHALL ACCOMMODATE WIND LOADING WITHOUT CAUSING THE FENCE TO BEND OR FALL OVER.

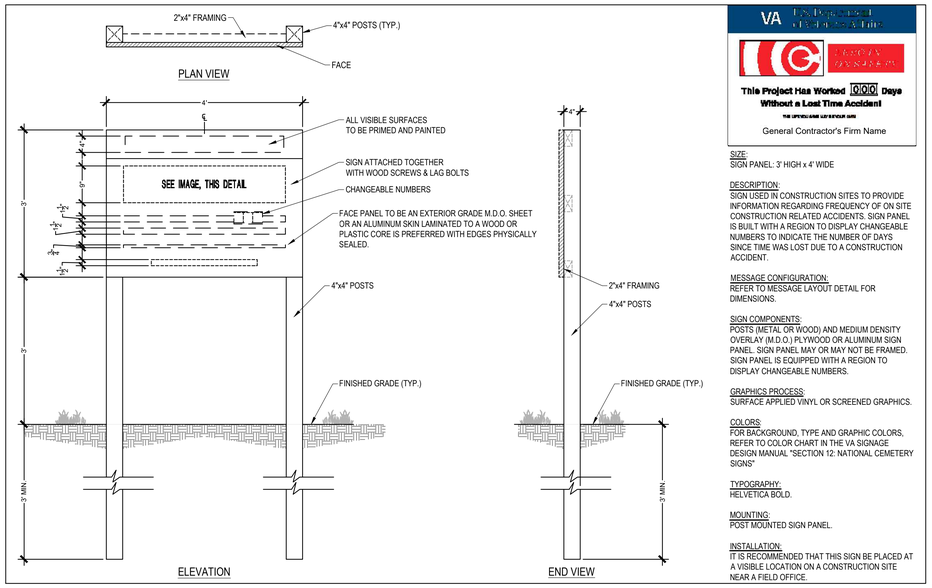
3. PROVIDE GATES AS REQUIRED FOR ACCESS WITH NECESSARY HARDWARE, INCLUDING HASPS AND PADLOCKS.

4. FASTEN FENCE FABRIC TO TERMINAL POSTS WITH TENSION BANDS AND TO LINE POSTS AND TOP AND BOTTOM RAILS WITH TIE WIRES SPACED AT MAXIMUM 15 INCHES.

5. BOTTOM OF FENCES SHALL EXTEND TO ONE INCH ABOVE GRADE. REMOVE THE FENCE WHEN DIRECTED BY RE/COR.

6. DETAIL PROVIDED IS FOR ILLUSTRATIVE PURPOSES ONLY. FENCING WITH EQUIVALENT FORM/FUNCTION SHALL BE SUBMITTED AND CONSIDERED FOR APPROVAL.

3 CONSTRUCTION FENCE WITH PRIVACY SCREENING
NOT TO SCALE



SIZE:
SIGN PANEL: 3' HIGH x 4' WIDE

DESCRIPTION:
SIGN USED IN CONSTRUCTION SITES TO PROVIDE INFORMATION REGARDING FREQUENCY OF ON SITE CONSTRUCTION RELATED ACCIDENTS. SIGN PANEL IS BUILT WITH A REGION TO DISPLAY CHANGEABLE NUMBERS TO INDICATE THE NUMBER OF DAYS SINCE TIME WAS LOST DUE TO A CONSTRUCTION ACCIDENT.

MESSAGE CONFIGURATION:
REFER TO MESSAGE LAYOUT DETAIL FOR DIMENSIONS.

SIGN COMPONENTS:
POSTS (METAL OR WOOD) AND MEDIUM DENSITY OVERLAY (M.D.O.) PLYWOOD OR ALUMINUM SIGN PANEL. SIGN PANEL MAY OR MAY NOT BE FRAMED. SIGN PANEL IS EQUIPPED WITH A REGION TO DISPLAY CHANGEABLE NUMBERS.

GRAPHICS PROCESS:
SURFACE APPLIED VINYL OR SCREENED GRAPHICS.

COLORS:
FOR BACKGROUND, TYPE AND GRAPHIC COLORS, REFER TO COLOR CHART IN THE VA SIGNAGE DESIGN MANUAL "SECTION 12: NATIONAL CEMETERY SIGNS"

TYPOGRAPHY:
HELVETICA BOLD.

MOUNTING:
POST MOUNTED SIGN PANEL.

INSTALLATION:
IT IS RECOMMENDED THAT THIS SIGN BE PLACED AT A VISIBLE LOCATION ON A CONSTRUCTION SITE NEAR A FIELD OFFICE.

5 SAFETY SIGN
NOT TO SCALE

6/14/2009 12:39:03 PM

File Path

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JASON P. GERHART ENGINEER PE078142 6-2-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EROSION AND SEDIMENT CONTROL DETAILS	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number:
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	Drawing Number: GC502

VA FORM 08 - 6231

DEMOLITION NOTES:

1. WHERE A PORTION OF A CONCRETE AND ASPHALT AREA IS BEING DEMOLISHED ALL EDGES TO BE SAW CUT.
2. ALL CONCRETE AND ASPHALT REMOVAL TO INCLUDE PAVEMENT SUB BASE. REPLACE IN KIND.
3. EXISTING GRASSED AREAS IMPACTED BY THIS PROJECT TO BE REMOVED. ANY AREAS DISTURBED BY THIS PROJECT SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION AND PERMANENTLY STABILIZED AT THE END OF CONSTRUCTION.
4. ALL EXISTING SITE FEATURES, UTILITIES, AND OTHER EXISTING CONDITIONS NOT PROPOSED TO BE REMOVED OR DEMOLISHED ARE TO REMAIN OR BE REPLACED IN KIND IF DAMAGED.
5. ALL UTILITIES PROPOSED TO BE DEMOLISHED ARE TO BE REMOVED WITHIN THE LIMITS OF DISTURBANCE AND THE ENDS SHOULD BE CAPPED OR TERMINATED.
6. ALL EXCAVATED MATERIAL SHOULD BE REMOVED. ONSITE STORAGE OF MATERIALS IS NOT PROPOSED.
7. TEST PITS FOR LOCATING EXITING UTILITIES ARE PROVIDED ON THE SITE PLAN.
8. CONTRACTOR IS REQUIRED TO USE A PRIVATE UTILITY LOCATOR TO IDENTIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF DISTURBANCE.
9. CONTACT PENNSYLVANIA ONE CALL SYSTEM 1-800-242-1776 OR 811 "BEFORE YOU DIG" FOR UNDERGROUND UTILITY CLEARANCE AND MARKOUT BEFORE EXCAVATION, NOTIFY COR 72 HRS BEFORE EXCAVATION BEGINS. MARK OUT ALL UTILITIES BEFORE EXCAVATING.
10. HAND DIG ALL EXCAVATION FOR TEST PITS AND AROUND EXISTING UTILITIES.
11. DEMOLITION DEBRIS AND EXCAVATED MATERIAL SHALL BE DISPOSED OFFSITE.
12. PROVIDE SAFETY CONTROL PLAN. PROVIDE 7' HIGH CHAIN LINK FENCE AROUND WORK AREAS. ALL DUMPSTERS SHALL BE INSIDE THE FENCED WORK AREA.
13. ALL ROOF DRAINS WITHIN THE LOD TO BE CLEANED PER ARCH PLANS.

DEMOLITION KEYNOTE LEGEND: (#)

KEY	DESCRIPTION
1.	REMOVE FENCE
2.	REMOVE STORM SEWER
3.	SAWCUT EDGE OF PAVEMENT
4.	RELOCATE LIGHT STRUCTURE

DEMOLITION LEGEND:

(LOC) LIMITS OF CONSTRUCTION

REMOVE TREE

NOTES:
1. THE DEMOLITION PLAN IS A GENERAL GUIDE OF WHAT NEEDS TO BE DEMOLISHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL ITEMS THAT REQUIRE DEMOLITION TO COMPLETE THE PROPOSED CONSTRUCTION.
2. SITE FEATURES SHOWN IN BOLD TO BE REMOVED.

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE DEMOLITION PLAN	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number:
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	Drawing Number: CD101

File Path: 6/4/2009 12:39:03 PM

VA FORM 08 - 6231

20 10 0 20 40 60

GRAPHICAL SCALE: 1"=20'

NORTH

DEMOLITION NOTES:

1. WHERE A PORTION OF A CONCRETE AND ASPHALT AREA IS BEING DEMOLISHED ALL EDGES TO BE SAW CUT.
2. ALL CONCRETE AND ASPHALT REMOVAL TO INCLUDE PAVEMENT SUB BASE. REPLACE IN KIND.
3. EXISTING GRASSED AREAS IMPACTED BY THIS PROJECT TO BE REMOVED. ANY AREAS DISTURBED BY THIS PROJECT SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION AND PERMANENTLY STABILIZED AT THE END OF CONSTRUCTION.
4. ALL EXISTING SITE FEATURES, UTILITIES, AND OTHER EXISTING CONDITIONS NOT PROPOSED TO BE REMOVED OR DEMOLISHED ARE TO REMAIN OR BE REPLACED IN KIND IF DAMAGED.
5. ALL UTILITIES PROPOSED TO BE DEMOLISHED ARE TO BE REMOVED WITHIN THE LIMITS OF DISTURBANCE AND THE ENDS SHOULD BE CAPPED OR TERMINATED.
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13. ALL ROOF DRAINS WITHIN THE LOD TO BE CLEANED PER ARCH PLANS.

DEMOLITION KEYNOTE LEGEND: (#)

KEY	DESCRIPTION
1.	REMOVE FENCE
2.	REMOVE STORM SEWER
3.	SAWCUT EDGE OF PAVEMENT
4.	RELOCATE LIGHT STRUCTURE

DEMOLITION LEGEND:

(LOC) ---------- LIMITS OF CONSTRUCTION

REMOVE TREE

NOTES:
1. THE DEMOLITION PLAN IS A GENERAL GUIDE OF WHAT NEEDS TO BE DEMOLISHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL ITEMS THAT REQUIRE DEMOLITION TO COMPLETE THE PROPOSED CONSTRUCTION.
2. SITE FEATURES SHOWN IN BOLD TO BE REMOVED.

Revisions	Date

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REGISTERED PROFESSIONAL
JASON P. OSBURN
PE078142
6-2-25

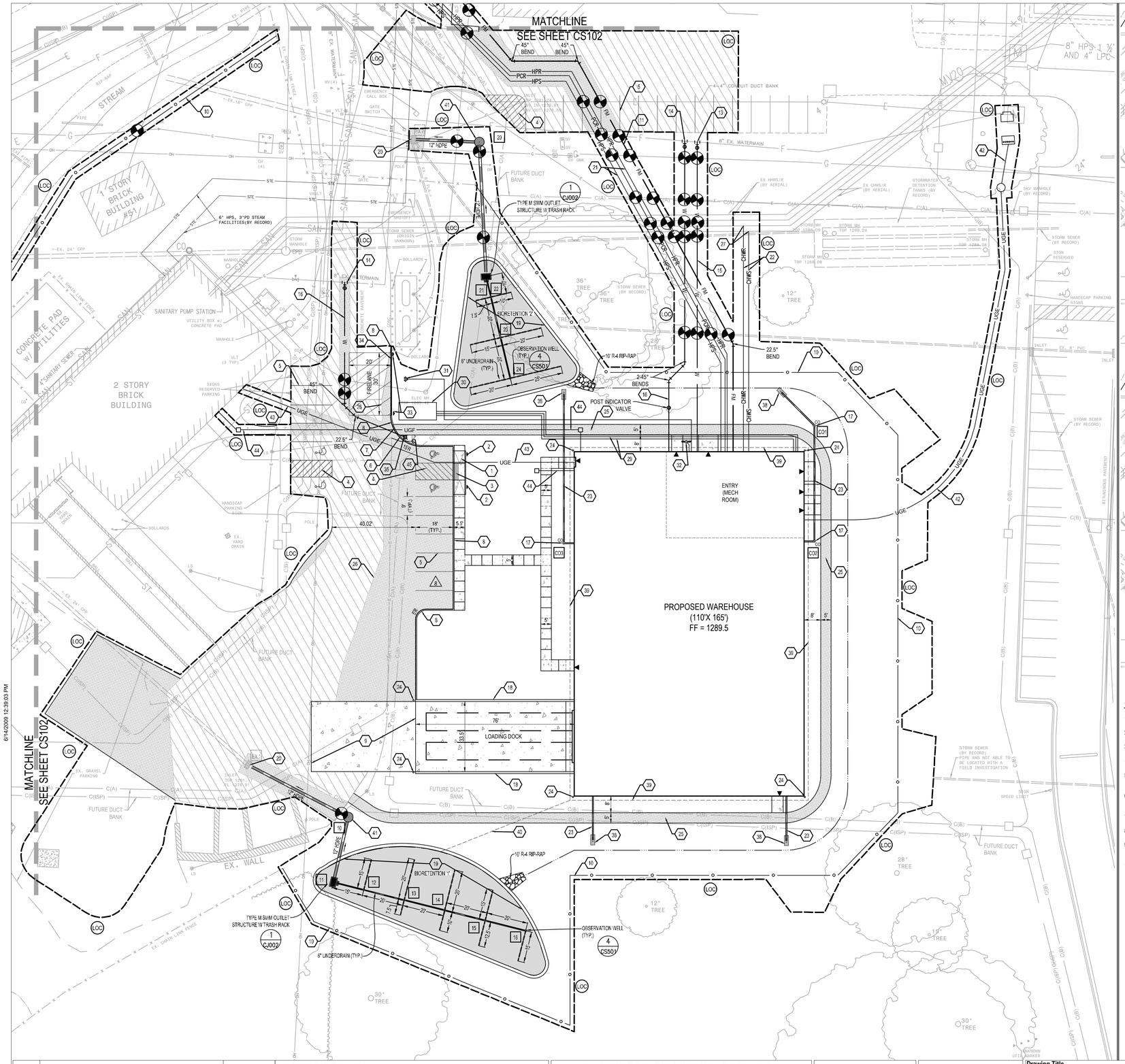
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE DEMOLITION PLAN	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number:
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	Drawing Number: CD102

File Path: 6/4/2009 12:39:03 PM

VA FORM 08 - 6231


MATCHLINE
SEE SHEET CS102
MATCHLINE
SEE SHEET CS102
1 STORY BRICK BUILDING #51
2 STORY BRICK BUILDING
CONCRETE PAD W/ UTILITIES
SANITARY PUMP STATION
PROPOSED WAREHOUSE
(110'X 165')
FF = 1289.5
ENTRY
(MECH
ROOM)
LOADING DOCK
BIORETENTION 'Z'
BIORETENTION '1'
TYPE M SWM OUTLET STRUCTURE W TRASH RACK
OBSERVATION WELL (TYP.)
6" UNDERDRAIN (TYP.)
10' R-4 RIP-RAP
POST INDICATOR VALVE
22.5° BEND
45° BEND
2-45° BENDS
12" HDPE
6" HPS, 3"PD STEAM FACILITIES (BY RECORD)
4-4" CONDUIT DUCT BANK
8" EX. WATERMAIN
8" HPS 1 ½" AND 4" LPC
FUTURE DUCT BANK
EX. WALL
EX. GRAVEL PARKING
EX. YARD DRAIN
STORM SEWER (BY RECORD)
STORM MANHOLE
SANITARY MANHOLE
BOLLARDS
SIGNS RESERVED PARKING
HANDICAP PARKING SIGN
SKY MANHOLE (BY RECORD)
STORMWATER DETENTION TANKS (BY RECORD)
EX. HHW/R (BY AERIAL)
EX. CHW/S/R (BY AERIAL)
STORM MH TOP 1288.24
STORM MH TOP 1288.09
STORM MH TOP 1288.08
SIGN RESERVED
HANDICAP PARKING SIGNS
STORM SEWER (BY RECORD) PIPE WAS NOT ABLE TO BE LOCATED WITH A FIELD INVESTIGATION
SIGN SPEED LIMIT
EX. 8" PVC
EX. 24" CPP
EX. 12" CPP
EX. 18" CPP
EX. CMP
EX. DRAIN LINE FENCE
EX. WATERMAIN
EX. SANITARY SEWER
EX. STORM SEWER
EX. GAS LINE
EX. OHW
EX. UGE
EX. UGT
EX. STE
EX. CHWR
EX. CHWS
EX. FM
EX. HPR
EX. HPS
EX. PCR
EX. W
EX. SAN
EX. STM
EX. GAS
EX. OH
EX. UGE

20 10 0 20 40 60

GRAPHICAL SCALE: 1"=20'

NORTH

SITE PLAN KEYNOTE LEGEND: (#)

KEY	DESCRIPTION	DETAIL/PG
1.	VA CURB RAMP	8 / CS501
2.	POST MOUNTED ADA SIGN	1 / CS501
3.	DETECTABLE WARNING SURFACE	1 / CS502
4.	STRIPED AREA - WHITE 4" WIDTH, 24" SPACE, ANGLED STRIPING AREA	
5.	PARKING SPACE - WHITE 4" WIDTH, SOLID PARKING STRIPING LINE	
6.	NOSE DOWN CURB	3 / CS501
7.	CONCRETE DEPRESSED CURB	3 / CS501
8.	CONCRETE HEADER CURB	7 / CS501
9.	CONCRETE LOADING PAD	10 / CS501
10.	8' TALL BLACK CHAIN LINK FENCE	12 / CS501
11.	2" SANITARY FORCEMAIN	
12.	CONNECT SANITARY FORCEMAIN TO EXISTING SEWER MANHOLE	
13.	WET TAP 8" x 6" TEE, 6" GATE VALVE, 1-MJ PLUG TAPPED, 2" DOMESTIC SERVICE LINE	7 / CS503
14.	WET TAP 8" x 8" TEE, 8" GATE VALVE, 8" FIRE LINE	6 / CS503
15.	2" COPPER TYPE-K DOMESTIC SERVICE LINE	
16.	8" DIP FIRE LINE	
17.	CLEANOUT	4 / CS501
18.	MASONRY WALLS, SEE STRUCTURAL DESIGN	
19.	BIORETENTION	
20.	CONNECT STORM SEWER PIPE TO EXISTING DRAIN STRUCTURE	
21.	STEAM PIPE	
22.	CHILLED WATER LINE	
23.	6" HDPE ROOF DRAIN	
24.	BOLLARD	11 / CS501
25.	5 FT ASPHALT ACCESS PATH	
26.	SAW CUT EXISTING PAVEMENT	5 / CS501
27.	CONNECT TO CHILLED WATER LINE, SEE ARCHITECTURAL / MECHANICAL PLANS FOR DETAILS	
28.	CONNECT TO HIGH PRESSURE STEAM LINE, SEE ARCHITECTURAL/MECHANICAL PLANS FOR DETAILS	
29.	UNDERGROUND FUEL TANK LINES	
30.	UNDERGROUND FUEL TANK, SEE ARCHITECTURAL / MECHANICAL PLANS FOR DETAILS	
31.	FDC WITH 6" FM U/G TO WAREHOUSE, SEE ARCHITECTURAL / MECHANICAL PLANS FOR DETAILS	
32.	FREE STANDING FIRE PUMP TEST HEADER, SEE ARCHITECTURAL/MECHANICAL PLANS FOR DETAILS	
33.	FIRE LANE SIGNS	13 / CS501
34.	FIRE LANE YELLOW PAINTED CURB	
35.	FIRE HYDRANT	9 / CS503
36.	WET TAP 8" x 6" TEE, 1-6" VALVE	
37.	6" DIP WATER LINE	
38.	SLOPE WALL	2 / CS502
39.	FOUNDATION 6" UNDERDRAIN, SEE ARCHITECTURAL PLANS FOR DETAILS	
40.	FOUNDATION 6" UNDERDRAIN DAYLIGHT PIPE TO BIO 1	
41.	STORM MANHOLE STRUCTURE	1 / CS504
42.	ELECTRICAL DUCTBANK, SEE ARCHITECTURAL / MECHANICAL PLANS FOR DETAILS	
43.	FIRE ALARM DUCTBANK, SEE ARCHITECTURAL / MECHANICAL PLANS FOR DETAILS	
44.	FIBER DUCTBANK, SEE ARCHITECTURAL / MECHANICAL PLANS FOR DETAILS	
45.	EXISTING LIGHT POLE RELOCATION	

SITE PLAN NOTES:

1. CONTRACTOR TO MITIGATE AIR AND NOISE POLLUTION.
2. A GEOTECHNICAL REPORT WAS PROVIDED BY TERRACON DATED DECEMBER 18,2023.
3. CONTRACTOR TO PROVIDE A CONSTRUCTION PHASING, PEDESTRIAN CIRCULATION AND TRAFFIC CONTROL PLAN.
4. ADA/ABA ACCESS AND EMERGENCY ACCESS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
5. CONTRACTOR TO COORDINATE WITH VAMC AND COR ON MAINTAINING PARKING, DELIVERIES, AND ACCESS TO BUILDING DURING CONSTRUCTION.
6. CONTRACTOR MUST OBTAIN APPROVAL FROM THE VAMC AND COR PRIOR TO ANY DISRUPTION IN DAILY ACTIVITIES, UTILITIES, OR CIRCULATION PATTERNS.
7. CONTRACTOR TO ENSURE POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
8. PROVIDE SIGNAGE FOR TRAFFIC PERSONNEL SAFETY AND CONSTRUCTION SIGN FOR THE PROJECT.
9. EXISTING UTILITIES MAY NEED TO BE ADJUSTED VERTICALLY AND OR HORIZONTALLY TO ACCOMMODATE THE PROPOSE IMPROVEMENTS.
10. OPTION 1 BASE BID WORK SHOWN AS EHRM PROJECT IS NOT BUILT, REFER TO SHEET T-100 FOR OPTION 2 ALTERNATE.

SITE PLAN LEGEND:

- LOC — LIMITS OF CONSTRUCTION
- ASPHALT PAVEMENT — 6 / CS501
- MILL AND OVERLAY — 9 / CS501
- CONTROL JOINT (TYP.) / EXPANSION JOINT (TYP.) — CONCRETE SIDEWALK — 2 / CS501
- HEAVY DUTY CONCRETE — 10 / CS501
- TEST PIT

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JASON P. GORHAM — PE078142 — 6-2-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

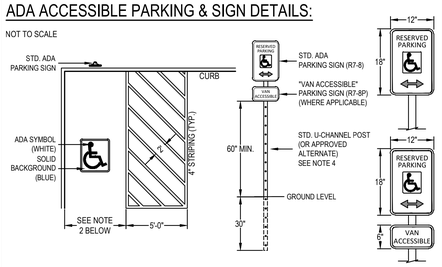
Drawing Title	SITE LAYOUT AND UTILITY PLAN
Phase	BID DOCUMENTS
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number	529-314
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	BUTLER, PA
Issue Date	06/02/2025
Checked	JPG
Drawn	JMM
Drawing Number	CS102

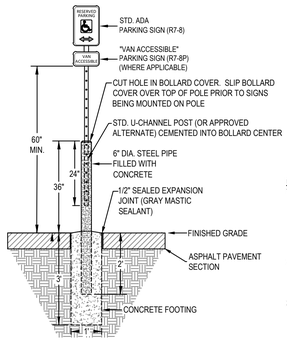
File Path: 6/14/2009 12:39:03 PM

VA FORM 08 - 6231

ADA ACCESSIBLE PARKING & SIGN DETAILS:

NOT TO SCALE

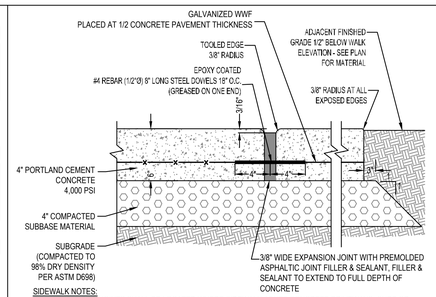




BOLLARD MOUNTING DETAIL

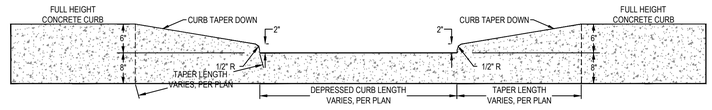
NOTES:
1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND LOCAL AND STATE CODES.
2. 8' MINIMUM STALL WIDTH TYPICAL FOR STANDARD ADA SPACES. 11' MINIMUM STALL WIDTH TYPICAL FOR VAN-ACCESSIBLE ADA SPACES.
3. FOR MORE EXTENSIVE STANDARDS REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS 2009 EDITION.
4. ALL SIGNAGE LOCATED WITHIN PAVED AREAS TO BE MOUNTED IN A CONCRETE BOLLARD. SEE BOLLARD MOUNTING DETAIL ABOVE.

1 ADA MARKING AND SIGNAGE DETAILS
NOT TO SCALE

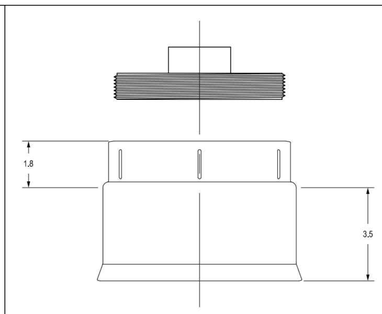


SIDEWALK NOTES:
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
2. CONTROL AND EXPANSION JOINTS TO BE SPACED PER PLANS. IF SPACING IS NOT NOTED, UTILIZE THE FOLLOWING SPACING:
   MAX SPACING FOR CONTROL JOINTS = 5'
   MAX SPACING FOR EXPANSION JOINTS = 30'
3. CONCRETE TO HAVE BROOM FINISH WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.

2 SIDEWALK DETAIL
NOT TO SCALE



3 NOSE DOWN / DEPRESSED CURB DETAIL
NOT TO SCALE



1 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION
2 - DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY
3 - DIMENSIONS ARE IN INCHES

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DRAWN BY	JJC	MATERIAL	PVC
DATE	3-18-11		
APPD BY	JJC	PROJECT NO./NAME	
DATE	3-18-11		
DWG SIZE	A	SCALE 1:3	SHEET 1 OF 1

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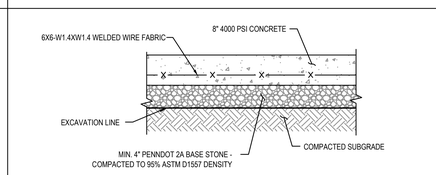
TITLE: 6 IN ADS N12/HANCOR DUAL WALL CLEANOUT

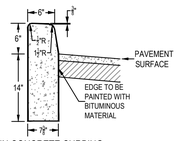
DWG NO. 0674AG REV B

4 6" STORM SEWER CLEANOUT
NOT TO SCALE.



NOTES:
1. SOILS TESTS OF SUBGRADE MUST BE SUBMITTED FOR ACTUAL DETERMINATION BASED ON CBR OF REQUIRED PAVEMENT SECTION THICKNESS PRIOR TO CONSTRUCTION.
2. ALL BASE AND SUBGRADE MATERIAL SHALL BE COMPACTED TO 98% THEORETICAL MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698.

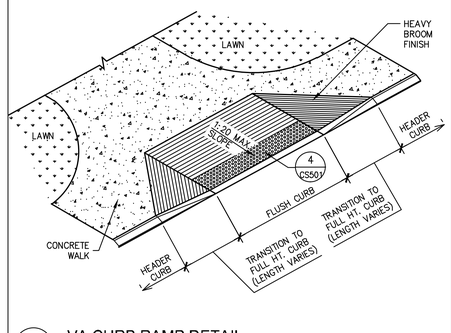
6 ASPHALT PAVEMENT DETAIL
NOT TO SCALE



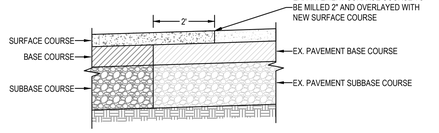
PLAIN CONCRETE CURBING
TYPE I-BARRIER TYPE
(HEADER CURB)

NOTES:
1. 6" GRADED AGGREGATE BASE AND COMPACTED SUBGRADE SHALL BE INSTALLED UNDER CURB CONSISTENT WITH PAVEMENT TYPICAL SECTIONS.
2. CONCRETE SHALL BE GRADE A 3,000 PSI.
3. CONSTRUCTION OF CONCRETE CURBING SHALL BE BY THE "SEPARATE METHOD" WHEN SAWED JOINTS ARE CONSTRUCTED IN THE PAVEMENT.
4. ALL CURB JOINTS SHALL BE MADE BY ACCEPTABLE FORMING METHODS.
5. "WHEN ABUTTING CONCRETE PAVEMENT, THICKNESS SHALL MATCH THICKNESS OF CONCRETE PAVEMENT.
6. **WHENE ABUTTING CONCRETE PAVEMENT, A LONGITUDINAL JOINT WITH TIE BARS OR TIE BOLT ASSEMBLIES SHALL BE CONSTRUCTED AT THIS LOCATION IN LIEU OF PAINTED BITUMINOUS MATERIAL.
7. PROVIDE CONTROL JOINTS AT 10' MAXIMUM SPACING. PROVIDE EXPANSION JOINTS AT 60' MAXIMUM SPACING.

7 HEADER CURB DETAIL
NOT TO SCALE



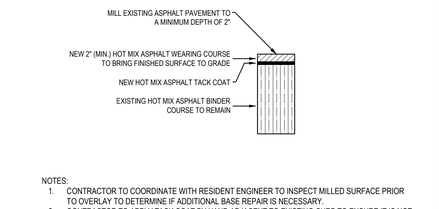
8 VA CURB RAMP DETAIL
NOT TO SCALE



NOTES:
1. SAW CUT EX. PAVEMENT. BOTTOM AND ALL SIDES OF SAW CUT TO BE PAINTED WITH BITUMINOUS MATERIAL PRIOR TO PLACING PAVEMENT SURFACE.
2. CONTRACTOR SHALL ENSURE THAT NO WATER IS TRAPPED BETWEEN EXISTING AND PROPOSED PAVEMENT AFTER THE CUTTING OPERATIONS HAVE BEEN PERFORMED.

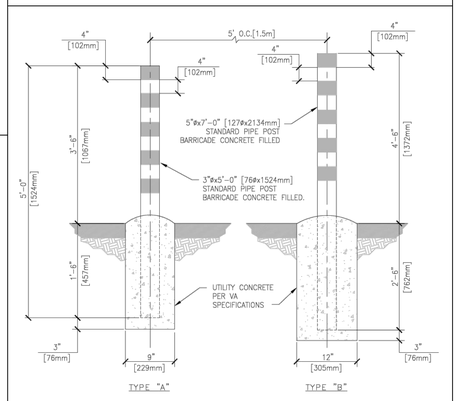
5 PAVEMENT SAWCUT DETAIL
NOT TO SCALE

10 CONCRETE PAVEMENT SECTION
NOT TO SCALE



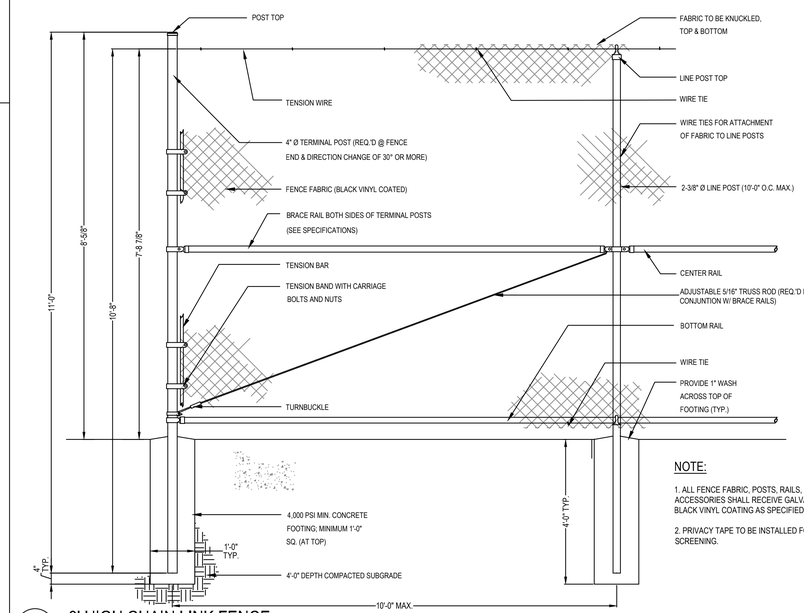
NOTES:
1. CONTRACTOR TO COORDINATE WITH RESIDENT ENGINEER TO INSPECT MILLED SURFACE PRIOR TO OVERLAY TO DETERMINE IF ADDITIONAL BASE REPAIR IS NECESSARY.
2. CONTRACTOR TO APPLY TACK COAT BY HAND ADJACENT TO EXISTING CURB TO ENSURE IT IS NOT DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.

9 MILL AND OVERLAY DETAIL
NOT TO SCALE



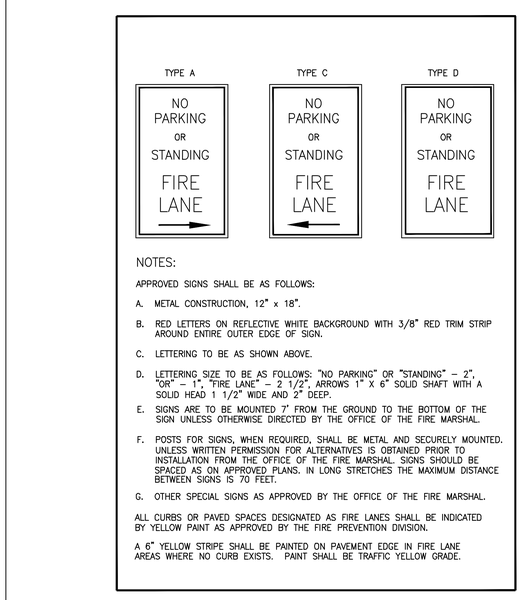
NOTES:
1. POST BARRICADES WILL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS, AND STRIPES CONSISTING OF 4" [102mm] BANDS OF YELLOW REFLECTORIZED TAPE WILL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, WILL BE SUBMITTED TO THE AGENCY FOR APPROVAL.

11 CONCRETE BOLLARD DETAIL
NOT TO SCALE



NOTE:
1. ALL FENCE FABRIC, POSTS, RAILS, GATES, AND ACCESSORIES SHALL RECEIVE GALVANIZING AND BLACK VINYL COATING AS SPECIFIED.
2. PRIVACY TAPE TO BE INSTALLED FOR SCREENING.

12 8' HIGH CHAIN LINK FENCE
NOT TO SCALE



NOTES:

APPROVED SIGNS SHALL BE AS FOLLOWS:

A. METAL CONSTRUCTION, 12" x 18".

B. RED LETTERS ON REFLECTIVE WHITE BACKGROUND WITH 3/8" RED TRIM STRIP AROUND ENTIRE OUTER EDGE OF SIGN.

C. LETTERING TO BE AS SHOWN ABOVE.

D. LETTERING SIZE TO BE AS FOLLOWS: "NO PARKING" OR "STANDING" – 2", "OR" – 1", "FIRE LANE" – 2 1/2", ARROWS 1" X 6" SOLID SHAFT WITH A SOLID HEAD 1 1/2" WIDE AND 2" DEEP.

E. SIGNS ARE TO BE MOUNTED 7' FROM THE GROUND TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE OFFICE OF THE FIRE MARSHAL.

F. POSTS FOR SIGNS, WHEN REQUIRED, SHALL BE METAL AND SECURELY MOUNTED. UNLESS WRITTEN PERMISSION FOR ALTERNATIVES IS OBTAINED PRIOR TO INSTALLATION FROM THE OFFICE OF THE FIRE MARSHAL. SIGNS SHOULD BE SPACED AS ON APPROVED PLANS. IN LONG STRETCHES THE MAXIMUM DISTANCE BETWEEN SIGNS IS 70 FEET.

G. OTHER SPECIAL SIGNS AS APPROVED BY THE OFFICE OF THE FIRE MARSHAL.

ALL CURBS OR PAVED SPACES DESIGNATED AS FIRE LANES SHALL BE INDICATED BY YELLOW PAINT AS APPROVED BY THE FIRE PREVENTION DIVISION.

A 6" YELLOW STRIPE SHALL BE PAINTED ON PAVEMENT EDGE IN FIRE LANE AREAS WHERE NO CURB EXISTS. PAINT SHALL BE TRAFFIC YELLOW GRADE.

13 FIRE LANE SIGNAGE DETAIL
NOT TO SCALE

Revisions	Date

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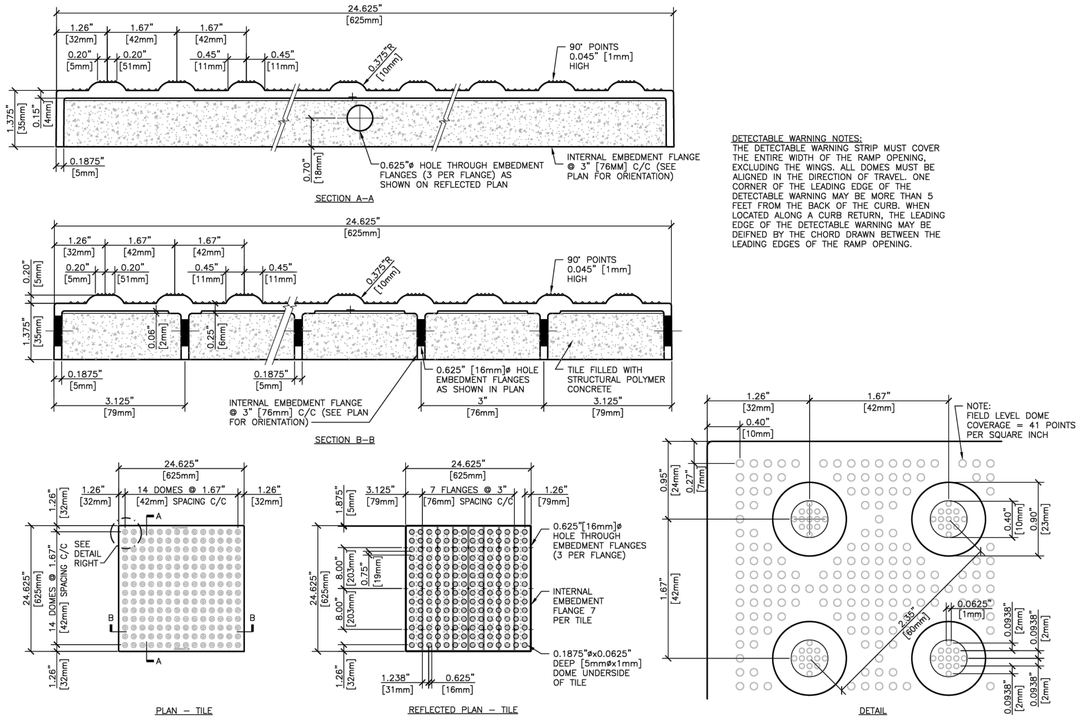
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE DETAILS	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:			Building Number:
	FULLY SPRINKLERED	Location: BUTLER, PA	Drawing Number: CS501
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	

File Path: 6/14/2009 12:39:03 PM

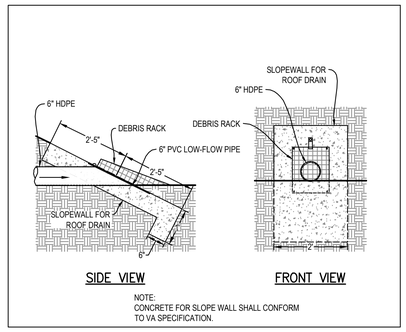
VA FORM 08 - 6231



DETECTABLE WARNING NOTES:
THE DETECTABLE WARNING STRIP MUST COVER THE ENTIRE WIDTH OF THE RAMP OPENING, EXCLUDING THE WINGS. ALL DOMES MUST BE ALIGNED IN THE DIRECTION OF TRAVEL. ONE CORNER OF THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE MORE THAN 5 FEET FROM THE BACK OF THE CURB. WHEN LOCATED ALONG A CURB RETURN, THE LEADING EDGE OF THE DETECTABLE WARNING MAY BE DEIFNED BY THE CHORD DRAWN BETWEEN THE LEADING EDGES OF THE RAMP OPENING.

1 TRUNCATED DOME TACTILE - WARNING STRIP DETAIL

NOT TO SCALE



NOTE:
CONCRETE FOR SLOPE WALL SHALL CONFORM TO VA SPECIFICATION.

2 SLOPE WALL DETAIL

NOT TO SCALE

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6-2-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Revisions	Date

Drawing Title: SITE DETAILS
Phase: BID DOCUMENTS
Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Project Number: 529-314
Building Number:
Approved:
Location: BUTLER, PA
Issue Date: 06/02/2025
Checked: JPG
Drawn: JMM
Drawing Number: CS502

FULLY SPRINKLERED

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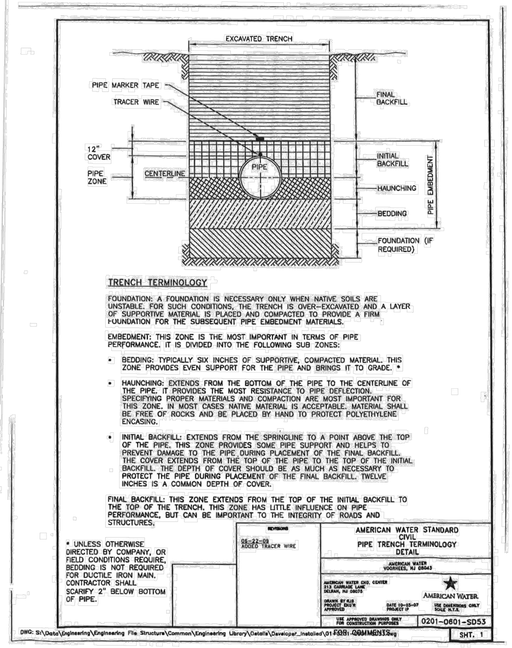
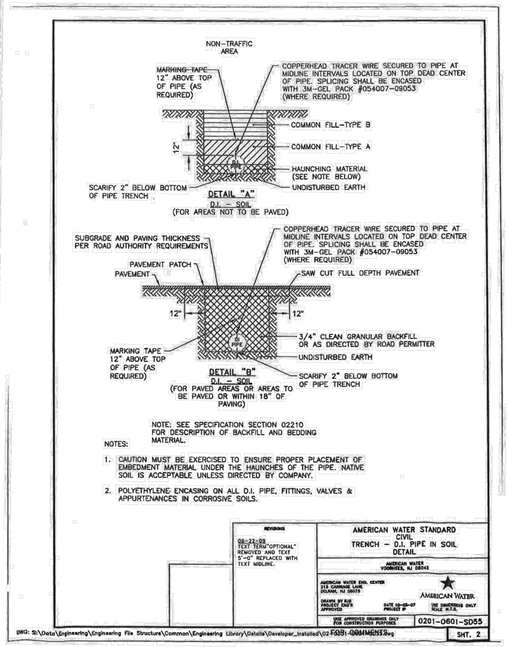
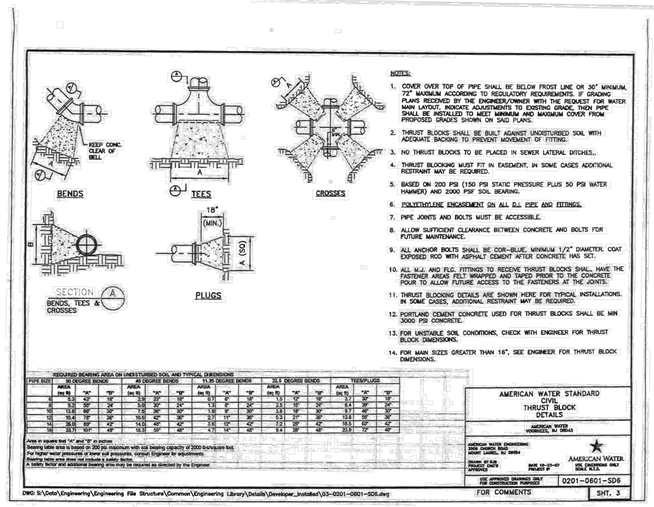


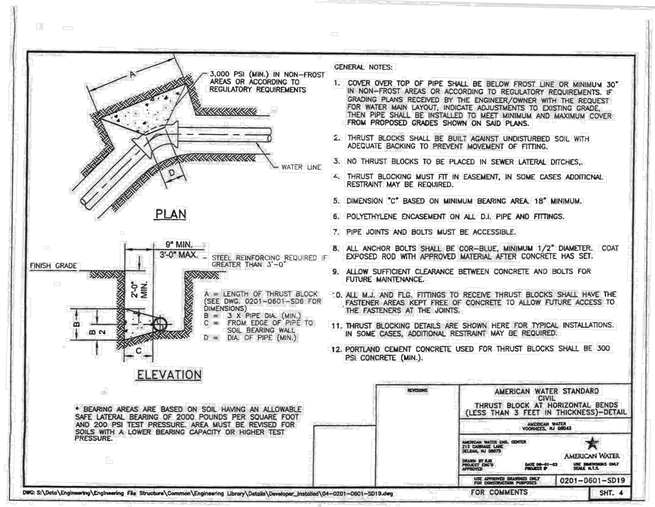
1 PIPE TRENCH DETAIL
NOT TO SCALE



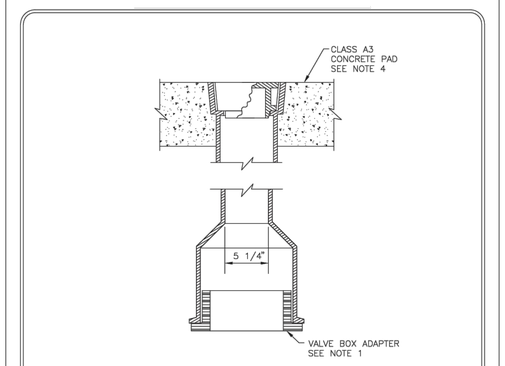
2 PIPE TRENCH BEDDING DETAIL
NOT TO SCALE



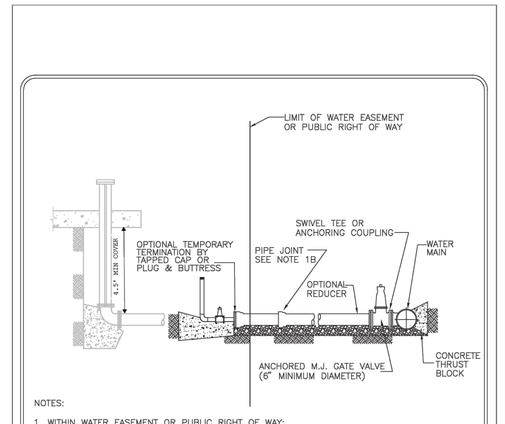
3 THRUST BLOCK DETAL
NOT TO SCALE



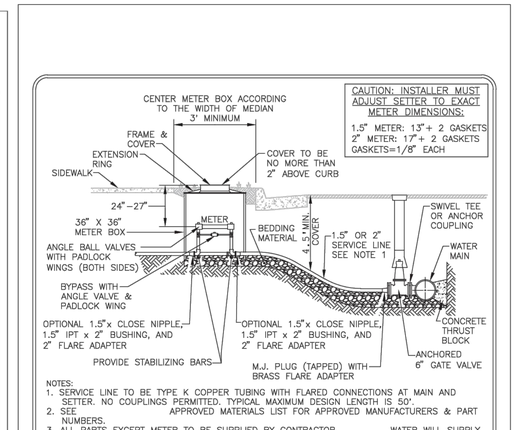
4 THRUST BLOCK DETAL
NOT TO SCALE



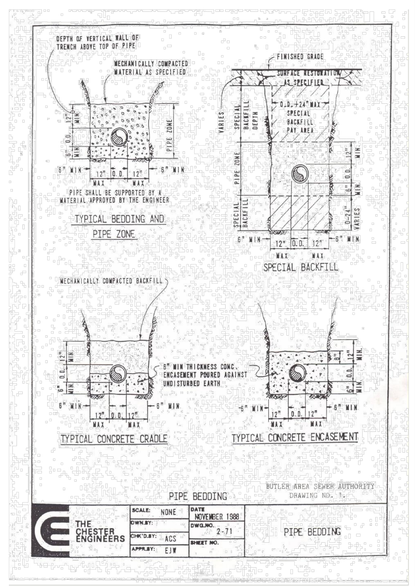
5 VALVE BOX DETAL
NOT TO SCALE

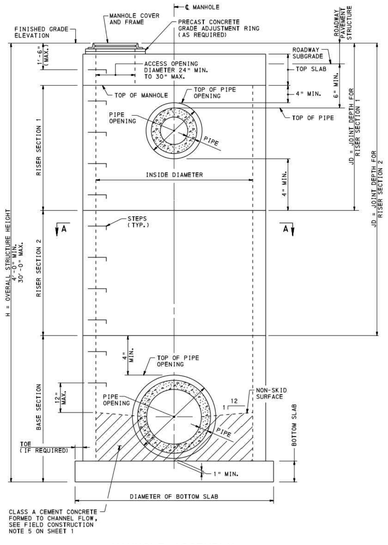


6 FIRE SERVICE CONNECTION DETAIL
NOT TO SCALE



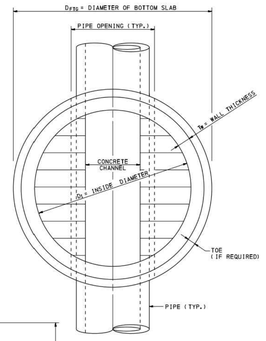
7 2" DOMESTIC SERVICE CONNECTION DETAIL
NOT TO SCALE


DEPTH OF VERTICAL WALL OF TRENCH ABOVE TOP OF PIPE
MECHANICALLY COMPACTED MATERIAL AS SPECIFIED
PIPE ZONE
PIPE SHALL BE SUPPORTED BY A MATERIAL APPROVED BY THE ENGINEER
TYPICAL BEDDING AND PIPE ZONE
FINISHED GRADE
SURFACE RESTORATION AS SPECIFIED
SPECIAL BACKFILL
SPECIAL BACKFILL PAY AREA
SPECIAL BACKFILL
SPECIAL BACKFILL
SPECIAL BACKFILL

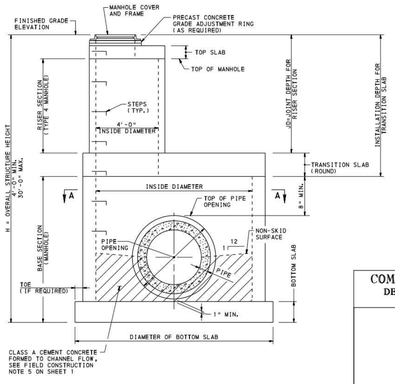


MANHOLE ASSEMBLY

JOINT DEPTH = FINISHED GRADE ELEVATION - JOINT ELEVATION



SECTION A-A



MANHOLE ASSEMBLY WITH TRANSITION SLAB

NOTES:

1. FOR NOTES, SEE SHEETS 1 - 3.
2. FOR PIPE LOCATION AND PIPE OPENING NOTES SEE SHEET 2.
3. FOR MANHOLE TYPES, SEE SHEET 4.
4. FOR ADDITIONAL MANHOLE ASSEMBLIES, SEE SHEET 6.
5. FOR PRECAST GRADE ADJUSTMENT RING DETAILS, SEE SHEET 8.
6. FOR MANHOLE COVER AND FRAME DETAILS, SEE SHEET 9.
7. FOR STEP DETAILS, SEE SHEET 10.
8. FOR TOP SLAB DETAILS, SEE SHEETS 11 - 15.
9. FOR ROUND TRANSITION SLAB DETAILS, SEE SHEETS 16 & 17.
10. FOR SQUARE TRANSITION SLAB DETAILS, SEE SHEETS 18 & 19.

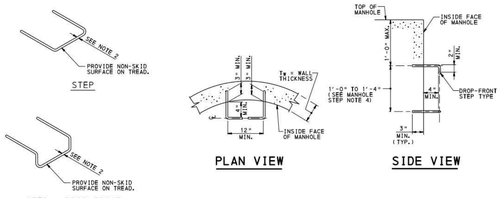
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STORM WATER MANHOLES
MANHOLE ASSEMBLIES - 1

RECOMMENDED SEPT.15, 2016	RECOMMENDED SEPT.15, 2016	SHT 5 OF 30
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-39M

1 MANHOLE ASSEMBLIES

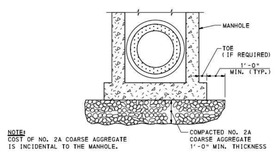
NOT TO SCALE



TYPICAL STEP CONFIGURATION
MANHOLE STEPS

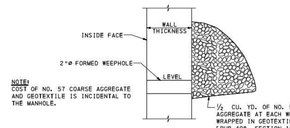
MANHOLE STEP NOTES:

1. PROVIDE MANHOLE STEPS SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15.
2. PROVIDE MINIMUM 1" SECTION DIMENSION FOR METAL STEPS. PROVIDE ¾" SECTION DIMENSION FOR NON-DETERIORATING MATERIAL STEPS.
3. SECURELY EMBED MANHOLE STEPS INTO INSERTS CAST INTO THE WALLS OR PREFORMED HOLES.
4. PROVIDE UNIFORM SPACING OF MANHOLE STEPS WITHIN A MANHOLE/INLET ASSEMBLY.
5. SEE GENERAL NOTE 12 ON SHEET 1.



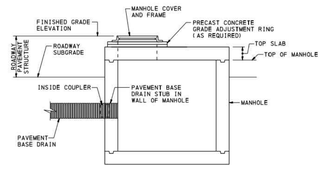
NOTE:
COST OF NO. 2A COARSE AGGREGATE IS INCIDENTAL TO THE MANHOLE.

MANHOLE SUBBASE PREPARATION DETAIL
(SEE FIELD CONSTRUCTION NOTES ON SHEET 1)



NOTE:
COST OF NO. 57 COARSE AGGREGATE AND GEOTEXTILE IS INCIDENTAL TO THE MANHOLE.

WEEPHOLE DETAIL
(SEE GENERAL NOTE 11 ON SHEET 1)



OPTIONAL CONNECTION DETAIL
FOR PAVEMENT BASE DRAIN

NOTES:

1. FOR NOTES, SEE SHEETS 1 - 3.

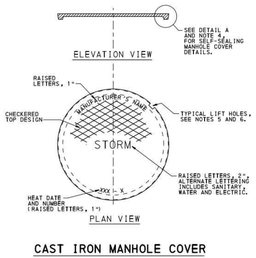
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STORM WATER MANHOLES
MISCELLANEOUS DETAILS

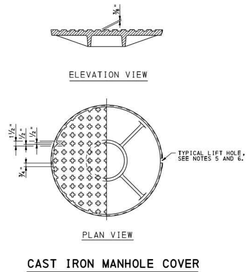
RECOMMENDED SEPT.15, 2016	RECOMMENDED SEPT.15, 2016	SHT 10 OF 30
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-39M

3 MANHOLE MISC. DETAILS

NOT TO SCALE



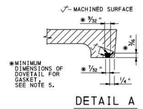
CAST IRON MANHOLE COVER
(PLATEN COVER)



CAST IRON MANHOLE COVER
(RIBBED COVER)

(PLAIN COVER SHOWN, SEE PLATEN COVER DETAIL FOR LETTERING REQUIREMENTS)

ELEVATION VIEW
OF MANHOLE FRAME



DETAIL A
GASKET SEALING SYSTEM

MANHOLE COVER AND FRAME NOTES:

1. PROVIDE MANHOLE COVERS AND FRAMES MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 605.2(b).
2. DESIGN MANHOLE COVERS AND FRAMES FOR PHL-93 OR HS-25 LOADINGS. IF MANHOLES ARE NOT IN OR ADJACENT TO ROADWAY, DESIGN FOR ALL POSSIBLE LIVE LOADS AS APPROVED BY THE DEPARTMENT.
3. PROVIDE GRAY CAST IRON CONFORMING TO AASHTO M105, CLASS 35B AND AASHTO M306.
4. PROVIDE MANHOLE COVERS AND FRAMES SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15. FOR DEVIATIONS OR MODIFICATIONS OF THE STANDARDS, SUBMIT SHOP DRAWINGS TO THE BUREAU OF PROJECT DELIVERY, HIGHWAY DELIVERY DIVISION CHIEF FOR REVIEW AND ACCEPTANCE.
5. PROVIDE A GASKET SEALING SYSTEM, DOVETAIL GROOVE AND CONTINUOUS GASKET, AS INDICATED IN DETAIL A, TO PREVENT INFLOW THROUGH THE BEARING SURFACES, OF SURFACE RUNOFF WATER INTO THE MANHOLE SYSTEM, WHEN SPECIFIED. PROVIDE ½" DIAMETER CLOSED CELL NEOPRENE ROUND GASKET, 40 DUROMETER GLUED IN MILLED GROOVE. PROVIDE TWO (2) LIFT HOLES AT 180 DEGREES TO FACILITATE COVER REMOVAL FOR SELF-SEALING MANHOLE COVER.
6. PROVIDE TWO (2) LIFT HOLES AT 180 DEGREES TO FACILITATE COVER REMOVAL FOR NON-SEALING MANHOLE COVER.
7. FRAME TO HAVE A MINIMUM BEARING SEAT OF 1" FOR MANHOLE COVER.
8. LOCATE TOP OF FRAME ¼" BELOW THE TOP OF THE ROADWAY SURFACE.
9. ATTACH FRAME AND/OR PRECAST CONCRETE GRADE ADJUSTMENT RINGS RIGIDLY TO THE TOP OF THE MANHOLE, USE 3-½" THREADED STUDS (MINIMUM) WITH HEX HEAD NUTS AND WASHERS, INSERTED THROUGH 34" DIAMETER HOLES (MINIMUM) THROUGH THE FRAME AND/OR RING. SPACE HOLES AT 120 DEGREES (MAXIMUM) AND 2" (MINIMUM) FROM OUTSIDE EDGE OF FRAME/RING. EMBED STUDS 4" MINIMUM INTO MANHOLE. GROUT STUDS INTO MANHOLE.
10. SET THE BASE OF THE FRAME ON A NON-SHRINK GROUT PAD TO PROVIDE FULL BEARING ON THE SUPPORTING SURFACE. NON-SHRINK GROUT IS ALSO PERMITTED FOR CROSS SLOPE AND LONGITUDINAL GRADE ADJUSTMENTS.
    - PROVIDE NON-SHRINK GROUT IN ACCORDANCE WITH PUBLICATION 408, SECTION 1001.2(d):
    - MINIMUM GROUT DEPTH = ½"
    - MAXIMUM GROUT DEPTH = 1"

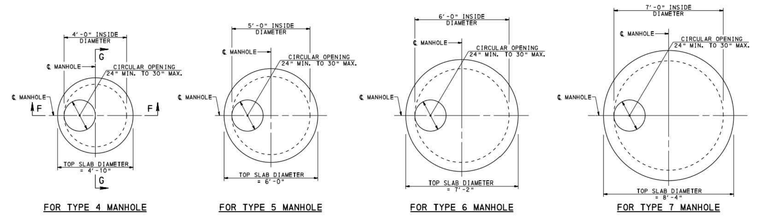
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STORM WATER MANHOLES
COVERS AND FRAMES

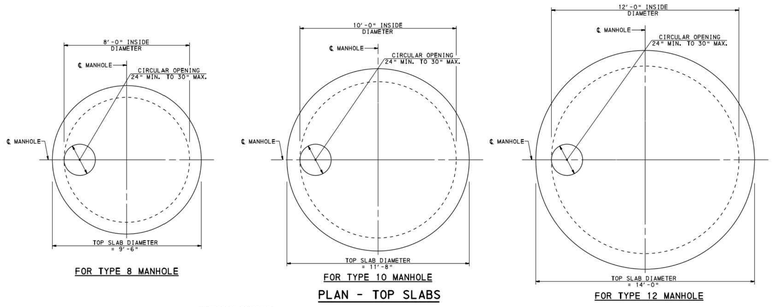
RECOMMENDED SEPT.15, 2016	RECOMMENDED SEPT.15, 2016	SHT 9 OF 30
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-39M

2 MANHOLE COVERS AND FRAMES

NOT TO SCALE



FOR TYPE 4 MANHOLE | FOR TYPE 5 MANHOLE | FOR TYPE 6 MANHOLE | FOR TYPE 7 MANHOLE

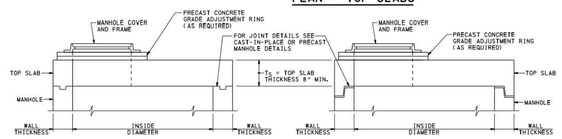


FOR TYPE 8 MANHOLE | FOR TYPE 10 MANHOLE | FOR TYPE 12 MANHOLE

PLAN - TOP SLABS

NOTES:

1. FOR NOTES, SEE SHEETS 1 - 3.
2. DIAMETER OF TOP SLAB TO MATCH OUTSIDE DIAMETER OF MANHOLE.
3. ALIGN OPENING WITH INSIDE FACE OF MANHOLE.
4. FOR SECTION G-G AND REINFORCEMENT REQUIREMENTS, SEE SHEET 12.



TOP SLAB WITH KEYED JOINT | TOP SLAB WITH SHIPLAP JOINT (PRECAST ONLY)

SECTION F-F
(TYPICAL)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STORM WATER MANHOLES
TOP SLABS - 1

RECOMMENDED SEPT.15, 2016	RECOMMENDED SEPT.15, 2016	SHT 11 OF 30
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-39M

4 MANHOLE TOPS

NOT TO SCALE

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE DETAIL	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number:
		Issue Date: 06/02/2025 / Checked: JPG / Drawn: JMM	Drawing Number: CS504

File Path: 6/4/2009 12:39:03 PM

VA FORM 08-6231

MATCHLINE
SEE SHEET CG102

MATCHLINE
SEE SHEET CG102

GRAPHICAL SCALE: 1"=20'

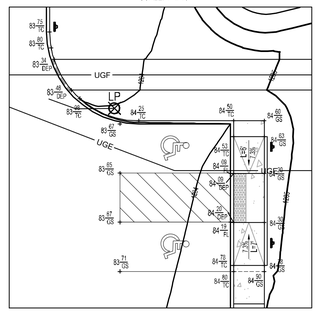
NORTH

SITE LAYOUT AND UTILITY LEGEND

GRAPHIC	DESCRIPTION
23	PROPOSED MINOR CONTOUR
25	PROPOSED MAJOR CONTOUR
23	EXISTING MINOR CONTOUR
25	EXISTING MAJOR CONTOUR

ADA RAMP GRADING DETAIL:

SCALE: 1" = 10'



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE GRADING PLAN	Phase: BID DOCUMENTS	Project Title: CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION	Project Number: 529-314
Approved:	FULLY SPRINKLERED	Location: BUTLER, PA	Building Number
		Issue Date: 06/02/2025 · Checked: JPG · Drawn: JMM	Drawing Number: CG101

Revisions	Date

File Path: 6/14/2009 12:39:03 PM

VA FORM 08 - 6231

SITE LAYOUT AND UTILITY LEGEND

GRAPHIC	DESCRIPTION
23	PROPOSED MINOR CONTOUR
25	PROPOSED MAJOR CONTOUR
23	EXISTING MINOR CONTOUR
25	EXISTING MAJOR CONTOUR

Revisions	Date

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REGISTERED PROFESSIONAL
JASON P. GERHART
ENGINEER
PE078142
6-2-25

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	SITE GRADING PLAN
Phase	BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	CONSTRUCT A WAREHOUSE FOR VISN 4 WESTERN MARKET DISTRIBUTION
Location	BUTLER, PA
Issue Date	06/02/2025
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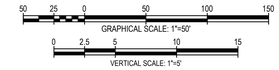
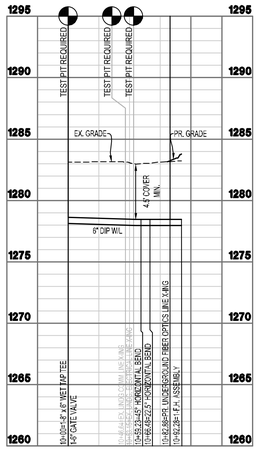
VA FORM 08 - 6231




TEST PIT REQUIRED
EX. GRADE
PR. GRADE
4.5' COVER MIN.
8" DIP W/L
10+00+8" x 8" WET TAP TEE
8" GATE VALVE
10+15.13<45° HORIZONTAL BEND
10+56.45<22.5° HORIZONTAL BEND
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