

**HARDY COUNTY PUBLIC SERVICE DISTRICT
HARDY COUNTY, WEST VIRGINIA**

PROPOSED NEW OFFICE FACILITY

ADDENDUM #2

September 13, 2022

THRASHER PROJECT #060-00958

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Tuesday, August 30, 2022 on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following is general information and clarifications for contractors interested in the above reference project.

A. GENERAL
None on this Addendum.

B. SPECIFICATIONS
None on this Addendum.

C. DRAWINGS
None on this Addendum.

D. QUESTIONS AND RESPONSES

Question 1. Please confirm the scope for Alternate 1. Both the bid form and section 012300 describe Alternate 1 scope to be "Reduce the height of the split face CMU on the office building to 4'-0" height to match the garage and replace with manufacturers standard corrugated metal panels" however Sheet S1.02 describes Alternate 1 as, "Delete pre-engineered metal building structure and associated foundations, replace with CMU bearing walls and steel bar joists as detailed in the drawings".

Response 1. Drawing S1.01 has been deleted. There is no Alternate Bid for a CMU building with a steel framed roof system.

Question 2. If Alternate 1 as described on sheet S1.02 is correct, please provide a specification for the roof system that is to be provided.

Response 2. Refer to Response 1.

Question 3. Please verify the finished floor elevation for the garage and office spaces. An elevation for FFE 0'-00" does not appear to be provided.

Response 3. The FFE tied to the Site Elevations is 998.50 for the Office floor and for the Garage Floor.

Question 4. On sheet C-3.0 a flagpole light is referenced by note however the fixture type is not listed on the light fixture schedule. Please confirm that type of flagpole fixture required.

Response 4. The flagpole light and underground conduit have been deleted. The flagpole is to remain in the contract as clarified in Q7/R7.

Question 5. On sheet C-7.3 a detail is shown for underground utility conduits. Please clarify where the utility conduits originate from (pole, etc.).

Response 5. See Attached Revised C-5.0 Utility Site Plan showing the existing utility pole location and proposed new conduit sizes and locations for new underground electric service conduit and conductors, and new fiber optic conduit with pull cable. Also see the revised Plan Note #4 regarding contacting the utility providers to confirm that these installations comply with their requirements.

Question 6. Please confirm the required quantity or locations for the specified fire extinguishers. None can be located on the Contract Drawings.

Response 6. 4 fire extinguishers are specified. Two will be installed in cabinets in the Office Area, and two will be installed on hanger brackets in the Garage Area. Locations are typically near Required Exit Doors, but field located to allow coordination with other equipment such as light switches and fire alarm pulls which have a high priority for code compliant locations.

Question 7. Please confirm the quantity and size required for the specified flagpoles. Sheet C-7.3 references (1) 40' tall pole by however the specifications refer to (1) 30' pole and (2) 25' poles.

Response 7. Sheet C-7.3 is for the flagpole installation, however the pole has been changed to a 30' pole of the same quality as specified in Section 107516. (See Q5/R5 for deletion of the pole light and underground electric cable.)

Question 8. With the current and anticipated lead-times on the pre-engineered metal building itself, there is no way that a 240-day substantial completion can be met. We request that you extend the required schedule to recognize that critical path schedule item and/or eliminate any liquidated damages.

Response 8. Yes, we can extend the contract from 240 days to 360 which should help with lead times.

Question 9. We would like to request a bid extension of approximately 1 week. With all questions due by September 7th, that only provides 6 working days for contractors to solicit pricing and allow the subcontractors time to get analyze the project.

Response 9. Refer to Addendum #1 for the Bid Extension to Tuesday, September 20, 2022, 10:00 am. There will be NO further extensions.

Question 10. Drawing S1.02 provides some information regarding an Alternate framing plan utilizing full height masonry and bar joist roof framing. There would seemingly be many other influences to the overall project, besides what is shown on the single sheet, that are not being addressed or detailed if one is to consider this Alternate. This Alternate also does not appear anywhere on the Bid Form. Please clarify the intention here.

Response 10. Delete S1.02. Refer to Q1/R1.

Question 11. The Division 13 specification contains some contradictory information to the drawings, but most importantly it is the only place providing specific design criteria on page 7-8 for the building itself. We want to make certain that is the correct criteria for the building design and pricing.

Response 11. The original specifications were for a high-end Butler Building. The current specifications for this bid are intended to provide a standard of the industry PEMB to be more affordable and still provide a high level of performance. The Design Criteria on pages 7 & 8 shall be modified as required to meet the PEMB standards, and all applicable State and Local Codes, with the added requirements of a minimum 30 psf snow load which is higher than most standard metal building specifications, and all roof and wall panel exterior finishes including trim accessories shall be fluoropolymer 2 coat paint system with minimum 30-year finish warranties. The Pre-Engineered Metal Building manufacturer will be required to submit a WV Registered Engineer Certification that the building meets all State and Local Codes, plus the minimum 30 psf snow load.

Question 12. From Addendum #1, can you clarify the window selection that was changed (Item 2 under General)? The only single hung windows for the project are all located in the 'Office' building which includes all conventional stud framing and full

7 height masonry walls at the perimeter, but no pre-engineered metal building secondary framing. Why would you propose the metal building manufacturer's standard window designed for PEMB framing applications for that building?

Response 12. Disregard Item 2 from Addendum 1 and install the Pella Fiberglass windows as originally specified.

Question 13. Please clarify the insulation requirements for both the roof and walls of the pre-engineered metal building at the PEMB framed areas. Page 19 of the Pre-Engineered Metal building specification states 4" blanket insulation in the walls and 6" in the roof, but the drawing sections suggests an R-38 in the roof and R-19 in the walls. I would add that an R-19 blanket is typically the maximum that can be used in the roof when an exposed fastener (screw down) roof has been specified, which Addendum #1 already changed from the originally specified standing seam roof. Also, the standard light transmitting panels proposed in the Garage Bay area matching the ribbed roof panels can only be used with a single layer batt insulation.

Response 13. Basically, you will be required to meet or exceed the PEMB specifications Section 2.04 on page 19 and disregard the Butler MR 24 Roofing and insulation specifications from the previously bid project. The wall insulation shall be the PEMB Manufacturer's minimum 4" fiberglass blanket insulation with vapor barrier, installed in compliance with the PEMB Manufacturer's instructions for a minimum "assembly" R-Value of 13. The roof insulation shall be the PEMB Manufacturer's standard 6" fiberglass blankets with vapor barrier, installed in compliance with the PEMB Manufacturer's instructions for a minimum "assembly" R-Value of 20.

Question 14. Please clarify that the intent of Alternate #1 is to reduce the height of the CMU at the office area to 4'-8" (not 4'-0"), which is the proposed height at the Garage Bays.

Response 14. Correct! The Top of CMU for the Office Area Alternate #1 is to be 4'-8" to match the Garage Building, (NOT 4'-0").

Question 15. A Weathertightness Warranty as specified on page 4 of the Pre-Engineered Metal Building specification cannot be provided for an exposed fastener (screw down) roof as specified in Addendum #1.

Response 15. Delete the Weathertightness Warranty and provide the maximum warrantee available for an exposed fastener Pre Engineered Metal Building.

Question 16. Please eliminate from page 4 of the Pre-Engineered Metal Building specification the item C. Manufacturer's Certification requirement that requires any written certifications prior to the bid date. I am not even certain what this is, nor will the specified exposed fastener panel even qualify for a Weathertightness warranty as mentioned above. The PEMB manufacturer can and will provide a Letter of Certification as described on page 5 of the PEMB specification with the final building documentation.

Response 16. The Masterspec intent is probably to require pre-certification to avoid having to reject a building submittal after a low bidder has been contracted with. The pre-certification required by 1.04 Warrantees, Item C shall be waived, and the selected Bidder will be required to submit the Manufacturer Certifications prior to signing the

Owner/Contractor Agreement. Failure to comply will dismiss the Low Bidder and proceed with the next lowest bidder in the same manor.

Question 17. Please clarify that UL-90 Uplift requirement is the only performance testing required for the project roof. Both pages 5 and 16 lists multiple criteria without specifying which is applicable that cannot be used on the same project (i.e. UL and FM). Also, to my knowledge only a UL-90 rating is the only performance testing available on a screw down roof.

Response 17. UL-Class 90 is the base requirement. FM and ASTM are noted only to avoid excluding PEMB systems that meet or exceed UL-90, but don't have the UL-90 certification. If FM and ASTM aren't available for screw down roofing, then they can't be bid.

Question 18. Please delete the minimum 2":12" roof slope requirement as provided for on page 9 item 1.4 of the PEMB specification. All drawings indicate a 1:12 pitch throughout the project.

Response 18. The roof pitch shall be 1:12.

Question 19. Please clarify the bids will be received in Moorefield, WV.

Response 19. Yes. Bids will be received at the Hardy County Public Library, 102 N Main Street, Moorefield, WV 26836

Question 20. Request approval of Corle Building Systems as a PEMB supplier, reference attachments?

Response 20. Corle Building Systems is acceptable so long as all components meet or exceed the WV State Code, any applicable Local Codes, and any additions to the standard specifications including the UL90 wind load and a minimum 30 psf snow load.

Question 21. Can the bid date be extended an additional week, to September 27th?

Response 21. No, we will be holding the Bid Opening on September 20, 2022.

Question 22. Please further clarify the Alternate #1 DEDUCT. If the masonry is now only running to 4'-8" like the other buildings, can we assume the masonry is to be an 8" CMU like the other buildings? Can we also assume the intent is to have standard wall girts and blanket insulation above the 4'-8" height like the Garage building to support the PEMB wall panels? Is there still to be a stud wall inside the girt plane to support drywall

at the perimeter or is the metal stud framing and drywall eliminated completely? You have ACT ceilings in that building, so something still needs to be there to receive those ceilings at the perimeter.

Response 22. The masonry will be 8" CMU, 4' – 8" above the Office finish floor level.

Question 23. The fence contractors bidding the project say the chain-link fence is not typical of Thrasher. It appears to be a "Tennis Court" fence detail, which is significantly higher in price.

Response 23. Without more specific information, the fencing and gate details shown on Drawing C-7.7 appear to be standard and shall be maintained.

Question 24. The BOD sectional door is "Overhead Door Model 420", which is a non-insulated door. The specification calls for CFC-free insulation, which is polyurethane injected. Please confirm what R or U-value is required if the doors are to be insulated. Both slide and cylinder locking devices are specified, please clarify which is required. Please confirm if control stations are required on both interior and exterior and the number of remote control transmitters required for each door.

Response 24. The Overhead Doors require at least a minimal insulation with a protective liner and a weatherstripping system. Target a U-Value would be U=9.0. Control Stations are to be on both interior and exterior with 3 remotes for each door.

E. CLARIFICATIONS

1. Attached Drawing C-1.0 has an added note 4 under Construction Sequence of Events for utility coordination requirements.
2. The concrete floor slab for the Garage is to be increased in thickness from 4" to 5" with the same wire mesh reinforcing chaired up 1-1/2" from the compacted stone base and vapor barrier. This will allow 1" slopes to draw gratings on drop inlets.
3. Add 2 concrete filled steel pipe bollards at each end of the Electric Service Equipment Panels. See Drawing A1.01, Floor Plan Reference Note #9 for details.
4. The downspout collector drain from the Office Area roof to D.I. #3 shall be 6" schedule 35 PVC. All downspouts are to drop into PVC boots connecting to storm drains.
5. Drop inlets (catch basins) referred to on Drawing P1.02 for Garage Floor drains are to receive truck weight gratings in lieu of the pedestrian weight noted on Detail Section AA on Drawing C-7.4.

If you have any questions or comments, please feel free to contact me at your earliest convenience. **As a reminder, bids will be received until 10:00 a.m. on Tuesday, September 20, 2022 at Hardy County Public Library, 102 N. Main Street, Moorefield, WV 26836.** Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



Lee Gustafson
Architect



GENERAL NOTES:

- 3
- ANY TECHNICAL PROCESS FOR CONSTRUCTION METHOD OR MATERIAL THAT IS NOT COVERED IN THESE CONTRACT DOCUMENTS WILL BE COVERED BY WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, REVISED AUGUST 29, 2016, WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2017 AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, SUPPLEMENTAL SPECIFICATIONS DATED 2022, STANDARD DETAILS VOLUME I DATED MAY, 2016 AND VOLUME II DATED JANUARY 1, 2019. (WVDOH SPECIFICATIONS SHALL BE USED FOR TECHNICAL ASSISTANCE ONLY). THE MEASUREMENT AND PAYMENTS ARE COVERED IN THE CONTRACT DOCUMENTS AND CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.
 - THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE EXISTING UTILITY INFORMATION IS THE BEST AVAILABLE AND MAY NOT BE COMPLETELY ACCURATE OR REPRESENTATIVE OF ACTUAL CONDITIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR TO THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR OWNER IN WRITING, OF ANY EXISTING DAMAGED UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE SHOULD BE ANTICIPATED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A VALID CITY AND STATE CONTRACTOR'S LICENSE AND PAYING ALL STATE AND LOCAL B&O TAXES IF APPLICABLE. ALL PERMITS MUST BE SECURED PRIOR TO CONSTRUCTION. PERMITS PERTAINING TO THE WASTE SITE SHALL ALSO BE ACQUIRED BY THE CONTRACTOR.
 - THE DATUM FOR THIS PROJECT IS NAD83 WV STATE PLANE, NORTH ZONE, US FOOT. EXISTING BASE MAPPING WITH 2' CONTOURS IS A COMBINATION OF AERIAL MAPPING AND SURVEY PROVIDED BY THE THRASHER GROUP, INC. (NOVEMBER 2016).
 - THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS OF THE VARIOUS WORK ITEMS ON THIS PROJECT.
 - THE CONSTRUCTION DRAWINGS REPRESENT THE PROPOSED LINES, GRADES, CROSS SECTIONS, AND APPURTENANCES TO ACCOMPLISH THE INTENT OF THE SCOPE OF WORK. CERTAIN INCIDENTAL ITEMS TO COMPLETE THE SCOPE OF WORK MAY NOT BE SHOWN.
 - ALL WORK PERFORMED AND ALL MATERIAL FURNISHED SHALL CONFORM TO THE LINES, GRADES, CROSS SECTIONS, DIMENSIONS, AND MATERIAL REQUIREMENTS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONSTRUCTION DRAWINGS SHOW THE CONSTRUCTION LINES, GRADES, DEPTHS AND DIMENSIONS ON WHICH ESTIMATED QUANTITIES ARE BASED. THE CONSTRUCTION LINES, GRADES, DEPTHS AND DIMENSIONS ARE SUBJECT TO VARIATION NECESSARY TO OBTAIN SUBGRADE AND/OR FINAL GRADE SATISFACTORY TO THE ENGINEER.
 - THE CONTRACTOR SHALL HAVE ON THE SITE AT ALL TIMES A COMPETENT SUPERINTENDENT CAPABLE OF READING AND UNDERSTANDING THE CONSTRUCTION DOCUMENTS AND THOROUGHLY EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED, AND SHALL BE ABLE TO COORDINATE WITH THE ENGINEER.
 - ALL BROKEN CONCRETE & ASPHALT, TRASH, RUBBISH, ORGANICS & OTHER UNSUITABLE AND EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL NECESSARY PERMITS FOR OFF-SITE DISPOSAL / WASTE AREAS.
 - THE OWNER RESERVES THE RIGHT TO CONTRACT TO AND PERFORM OTHER OR ADDITIONAL WORK ADJACENT TO AND WITHIN THE WORK AREA COVERED BY THIS CONTRACT. WHEN SEPARATE CONTRACTS ARE LET WITHIN THE LIMITS OF ANY ONE PROJECT, EACH CONTRACTOR SHALL CONDUCT THE WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OR THE COMPLETION OF THE WORK BEING COMPLETED BY OTHER CONTRACTORS. THE CONTRACTORS WORKING ON THE SAME PROJECT SHALL COOPERATE WITH EACH OTHER AS ORDERED BY THE OWNER AND/OR ENGINEER.
 - DO NOT DEPOSIT OR BURY ON THE SITE DEBRIS RESULTING FROM THE CLEARING AND GRUBBING. TREES, LOGS, BRANCHES, STUMPS, AND OTHER DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS SHALL NOT BE USED IN STRUCTURAL FILL AND IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
 - STRIP TOPSOIL TO WHATEVER DEPTH IT MAY OCCUR, IF ANY, FROM AREAS TO BE EXCAVATED, FILLED, OR GRADED IN A MANNER TO PREVENT INTERMIXING WITH UNDERLYING SUBSOIL OR WASTE MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE TOPSOIL FROM THE SITE.
 - SUBSEQUENT TO THE REMOVAL OF THE TOPSOIL, AND PRIOR TO PLACEMENT OF FILL, THE EXPOSED SURFACE SHALL BE COMPACTED AND/OR PROOF ROLLED UNTIL A RELATIVELY UNYIELDING SURFACE IS ACHIEVED. PROOF ROLLING SHOULD BE PERFORMED USING A FULLY LOADED, TANDEM-AXLE DUMP TRUCK, UNDER THE SUPERVISION OF QUALIFIED GEOTECHNICAL PERSONNEL. THE PROOF ROLLING EQUIPMENT SHOULD WEIGHT AT LEAST 15 TONS AND MAKE PASSES OVER THE ENTIRE SUBGRADE AREA IN EACH OF TWO PERPENDICULAR DIRECTIONS. LOCALIZED SOFT OR YIELDING AREAS IDENTIFIED DURING THE PROOF ROLLING ACTIVITIES SHOULD THEN BE UNDERCUT AND REPLACED WITH CONTROLLED, COMPACTED, ENGINEERED FILL AS NEEDED, IN ORDER TO PROVIDE A FIRM SUBGRADE. AN ALLOWANCE SHOULD BE MADE FOR UNDERCUTTING APPROXIMATELY 20% OF THE BUILDING PAD SUBGRADE DUE TO SOFT CONDITIONS. THE ONSITE CLAYEY SOILS ARE PRONE TO RUTTING AND PUMPING WHEN SUBJECTED TO CONSTRUCTION TRAFFIC, PARTICULARLY HEAVY RUBBER Tired VEHICLES. THE LIKELIHOOD THAT THESE CONDITIONS WILL DEVELOP CAN BE REDUCED BY PROVIDING ADEQUATE SITE DRAINAGE AND LIMITING CONSTRUCTION TRAFFIC AREAS. SOIL WHICH HAS BECOME OVER-WORKED AND EXCESSIVELY SOFT MUST BE UNDERCUT AND REPLACED WITH COMPACTED BACKFILL PRIOR TO CONSTRUCTION.
 - NO MATERIAL GREATER THAN 4 INCHES IN ITS LARGEST DIMENSION MAY BE UTILIZED INSIDE FILLING OPERATIONS.
 - FILL SHALL BE PLACED IN LIFTS OF MAXIMUM LOOSE DEPTH OF 8 INCHES. THE MATERIAL SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR LABORATORY TEST (ASTM D-698).
 - IF FILL FAILS COMPACTION TESTING, THE CONTRACTOR SHALL REWORK (RE-COMPACT, WATER AND RE-COMPACT, EXCAVATE AND DRY, ETC.) THE MATERIAL TO ACHIEVE THE SPECIFIED COMPACTION. THE CONTRACTOR MAY BE REQUIRED BY THE ENGINEER TO EXCAVATE FILL AND REPLACE WITH MATERIALS CAPABLE OF MEETING THE COMPACTION SPECIFICATIONS.
 - WHERE THE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO THE SURFACE OF THE SUBGRADE, OR LAYER OF SOIL MATERIAL, TO PREVENT FREE WATER APPEARING ON THE SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.
 - REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISKING, HARROWING OR PULVERIZING, UNTIL THE MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE, AS DETERMINED BY MOISTURE-DENSITY RELATION TESTS.
 - IN THE EVENT AN ERROR WITH THE PLANS SEEMS APPARENT, THE MATTER MUST BE TAKEN UP WITH THE OWNER FOR CAREFUL REVIEW BEFORE PROCEEDING WITH CONSTRUCTION.
 - ALL QUALITY CONTROL TESTING AND INSPECTION SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY. TESTING SHALL BE PERFORMED FOR SOILS, SUBGRADE, AGGREGATE BASE COURSE, CONCRETE, AND ASPHALT.
 - ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING THEIR ITEMS OF WORK AND COMPLETION SCHEDULES WITH EACH OTHER AS WELL AS THE GENERAL CONTRACTOR.
 - IF SUBSURFACE DRAINAGE/SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN ORDER TO PROVIDE AN ADEQUATE CONNECTION TO THE EXISTING OR PROPOSED DRAINAGE CONVEYANCE SYSTEM.

EROSION & SEDIMENT CONTROL NOTES

MAINTENANCE AND INSPECTION NOTES

- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL E&S MEASURES INSTALLED IN THIS PROJECT.
- CONTRACTOR SHALL CLEAN OUT SEDIMENT BEHIND THE SUPER SILT FENCE AND/OR COMPOST FILTER SOCKS ONCE IT IS ONE HALF OF THE HEIGHT OF THE FENCE AND/OR SOCK. THE SEDIMENT SHALL BE INCORPORATED INTO THE FILL WITHIN THE DISTURBED AREA.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, AT MINIMUM, ONCE EVERY FOUR (4) CALENDAR DAYS AND WITHIN 24-HOURS AFTER ANY STORM GREATER THAN 0.25-INCHES PER 24-HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

SEEDING AND MULCHING

- TEMPORARY STABILIZATION
DATES: MARCH 1 THROUGH JUNE 15
SEED: OATS @ 168 LB/AC
DATES: AUGUST 15 THROUGH NOVEMBER 1
SEED: RYE @ 120 LB / AC
FERTILIZER: 10-10-10 @ 400 LB / AC

FOR STABILIZATION OUTSIDE SEEDING DATES, USE HAY OR STRAW MULCH AT 3 TONS/AC OR AT 2 TONS/AC IF ASPHALT EMULSION IS APPLIED AT 100 GAL/AC.
- PERMANENT STABILIZATION
DATES: MARCH, APRIL, AUGUST, & AUGUST
SEED: KY-31 TALL FESCUE @ 50 LB / AC
FERTILIZER: 10-20-10 @ 1000 LB / AC
LIME: 3 TONS / AC OR PER SOIL TEST RESULTS
MULCH: HAY OR STRAW @ 2 TONS / AC OR @ 1.5 TONS / AC WITH ASPHALT EMULSION @ 125 GAL / AC
- SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
- SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER. IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.
- TOPSOIL SHALL BE REDISTRIBUTED ON ALL DISTURBED AREAS TO BE STABILIZED PRIOR TO SEEDING.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED, OR 4 DAYS FOR SITES REQUIRED TO USE ENHANCED BMPS.
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 4TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY NATURAL CAUSES, SUCH AS DROUGHT OR FLOOD, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED (e.g., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.

SHEET INDEX

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CONTACT INFORMATION

OWNER
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MOOREFIELD, WV 26836
304-530-3048

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NATURAL GAS
MOUNTAINEER GAS
1-800-834-2070

TELECOMMUNICATIONS
HARDY TELECOMMUNICATIONS
121 SOUTH MAIN STREET
MOOREFIELD, WV 26836
304-530-5000

ELECTRIC
POTOMAC EDISON WV
1-888-544-4877

WATER
HARDY COUNTY PUBLIC
SERVICE DISTRICT
2049 US HIGHWAY 220 S;
MOOREFIELD, WV 26836
304-530-3048

SEWER
HARDY COUNTY RURAL
DEVELOPMENT
AUTHORITY
223 N MAIN ST. STE 102
MOOREFIELD, WV 26836
304-530-3047

MISS UTILITY
1-800-245-4848
http://www.wv811.com

CONSTRUCTION SEQUENCE OF EVENTS:

- LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY MISS UTILITY OF WEST VIRGINIA AT 1-800-245-4848 A MINIMUM OF (2) DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL LOCATION OF LINES, UTILITY METERS, AND TIE IN CONNECTION WITH APPROPRIATE UTILITIES. PRIOR TO BEGINNING OF CONSTRUCTION OPERATIONS, COORDINATE WITH MOUNTAINEER GAS, HARDY TELECOMMUNICATIONS, POTOMAC EDISON, HARDY COUNTY PUBLIC SERVICE DISTRICT, HARDY COUNTY RURAL DEVELOPMENT AND ALL OTHER UTILITY COMPANIES.
- THE CONTRACTOR SHALL CONTACT THE WVDOH PERMIT OFFICE 48 HOURS BEFORE ANY WORK WITHIN WVDOH RIGHT OF WAY AT (304) 289-3521. FAILURE TO COMPLY MAY RESULT IN REDOING THE WORK TO MEET WVDOH PERMIT AT NO COST TO THE WVDOH.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL ALL PERIMETER AND EROSION AND SEDIMENT CONTROLS.
- STRIP AND REMOVE TOPSOIL.
- EXCAVATE AND ROUGH GRADE SITE.
- INSTALL DRAINAGE FACILITIES AND ALL OTHER UTILITIES.
- INSTALL CONCRETE CURB AND SIDEWALKS.
- COMPLETE FINE GRADING AND PREPARATION OF SUBGRADE FOR SUB-BASE MATERIAL. ALL DISTURBED AREAS SHALL BE DRESSED TO A NEAT AND FINISHED APPEARANCE.
- THE CONTRACTOR SHALL CONTACT THE WVDOH PERMIT OFFICE 48 HOURS BEFORE ANY WORK WITHIN WVDOH RIGHT OF WAY AT (304) 289-3521. ALL WORK SUBJECT TO WVDOH APPROVAL. FAILURE TO COMPLY MAY RESULT IN REDOING THE WORK TO MEET WVDOH PERMIT AT NO COST TO THE WVDOH.
- CONSTRUCT BUILDING.
- THE CONTRACTOR SHALL CONTACT THE WVDOH PERMIT OFFICE 48 HOURS BEFORE ANY WORK WITHIN WVDOH RIGHT OF WAY AT (304) 289-3521. FAILURE TO COMPLY MAY RESULT IN REDOING THE WORK TO MEET WVDOH PERMIT AT NO COST TO THE WVDOH.
- COMPLETE PAVING AND PAVEMENT MARKINGS.
- SEED AND MULCH DISTURBED AREAS.
- AFTER COMPLETE STABILIZATION OF THE DRAINAGE AREA, REMOVE EROSION AND SEDIMENT CONTROL FACILITIES AND DRESS AND STABILIZE AS REQUIRED.
- FINAL PROJECT CLEANUP AND DEMOBILIZATION.



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2	JBH	05.13.2022	SHEET INDEX ADDED
3	PAE	07.20.2022	WVDOH SPECIFICATION NOTE UPDATED, WVDOH POC ADDED
4	PAE	09.12.2022	CONSTRUCTION SEQUENCE NUMBERING UPDATED AND UTILITY COORDINATION NOTE ADDED
NO.	BY	DATE	DESCRIPTION

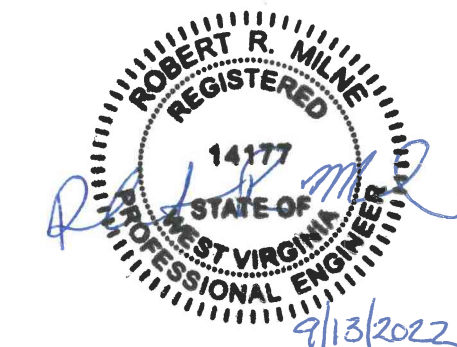
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DRAWN:	DATE:
CHECKED: PAE	DATE: 04.08.2022
APPROVED: RRM	DATE: 04.08.2022
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	



PHASE No.
CONTRACT No.
PROJECT No.
060-0958

CONSTRUCTION PLANS FOR
HARDY COUNTY PSD BUILDING
HARDY COUNTY, WEST VIRGINIA
MARCH 2022
GENERAL NOTES

SHEET No.
C-1.0



A compass rose is located in the upper right corner of the map, with the letter 'N' indicating North. Below the compass rose is a graphic scale bar with markings for 30', 0, 30', and 60'.

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4	PAE	09.12.2022	UTILITIES LOCATION UPDATED AND COORDINATION NOTE 4 ADDED
NO.	BY	DATE	DESCRIPTION

SCALE: AS SHOWN	
DRAWN:	DATE:
CHECKED: PAE	DATE: 04.08.2022
APPROVED: RRM	DATE: 04.08.2022
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

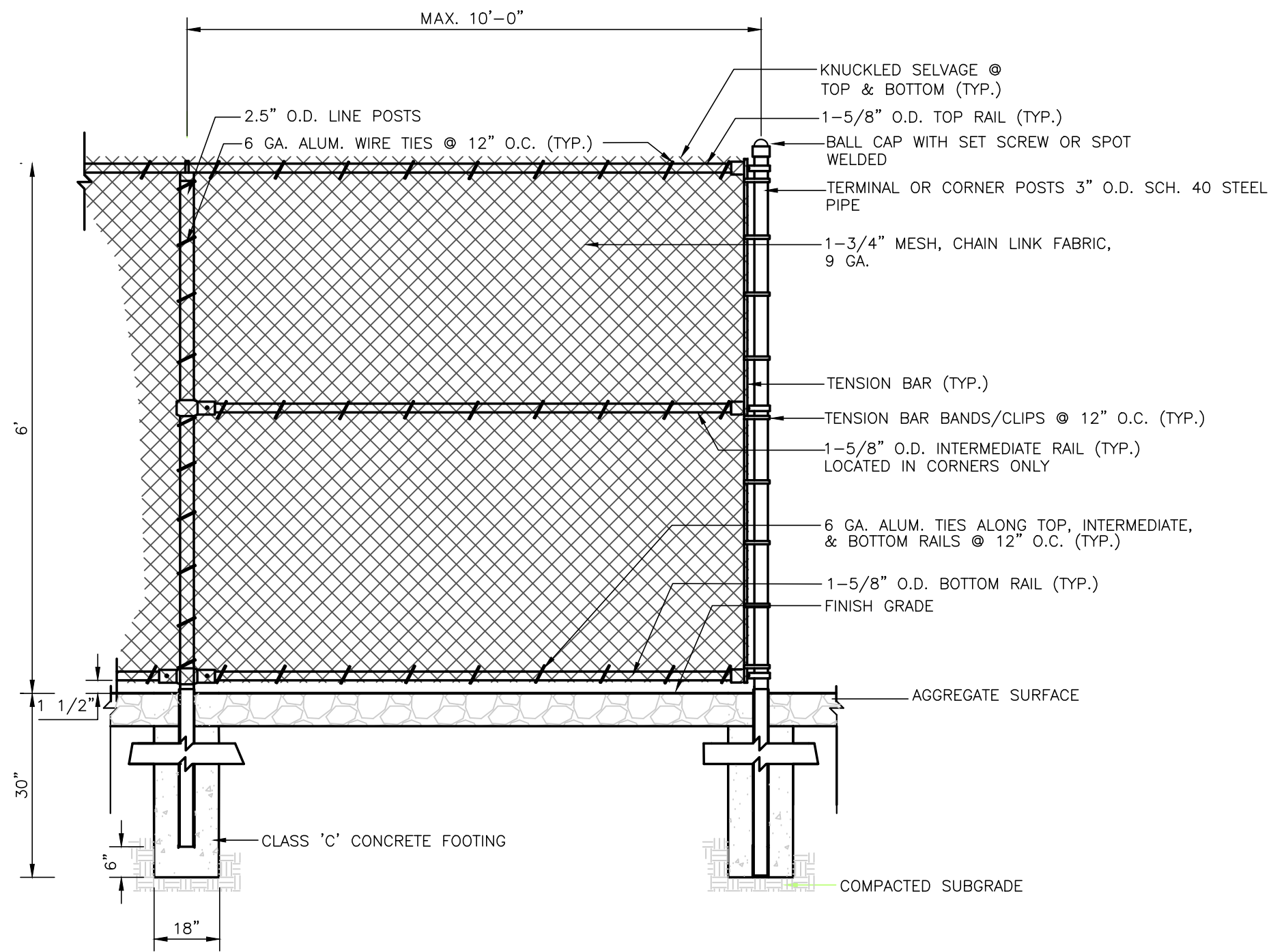
THRASHER
THE THRASHER GROUP, INC.
300 ASSOCIATION DR, CHARLESTON, WV 25311
PHONE (304) 343-7601
FAX (304) 343-7604

PHASE No.
CONTRACT No.
PROJECT No.
060-0958

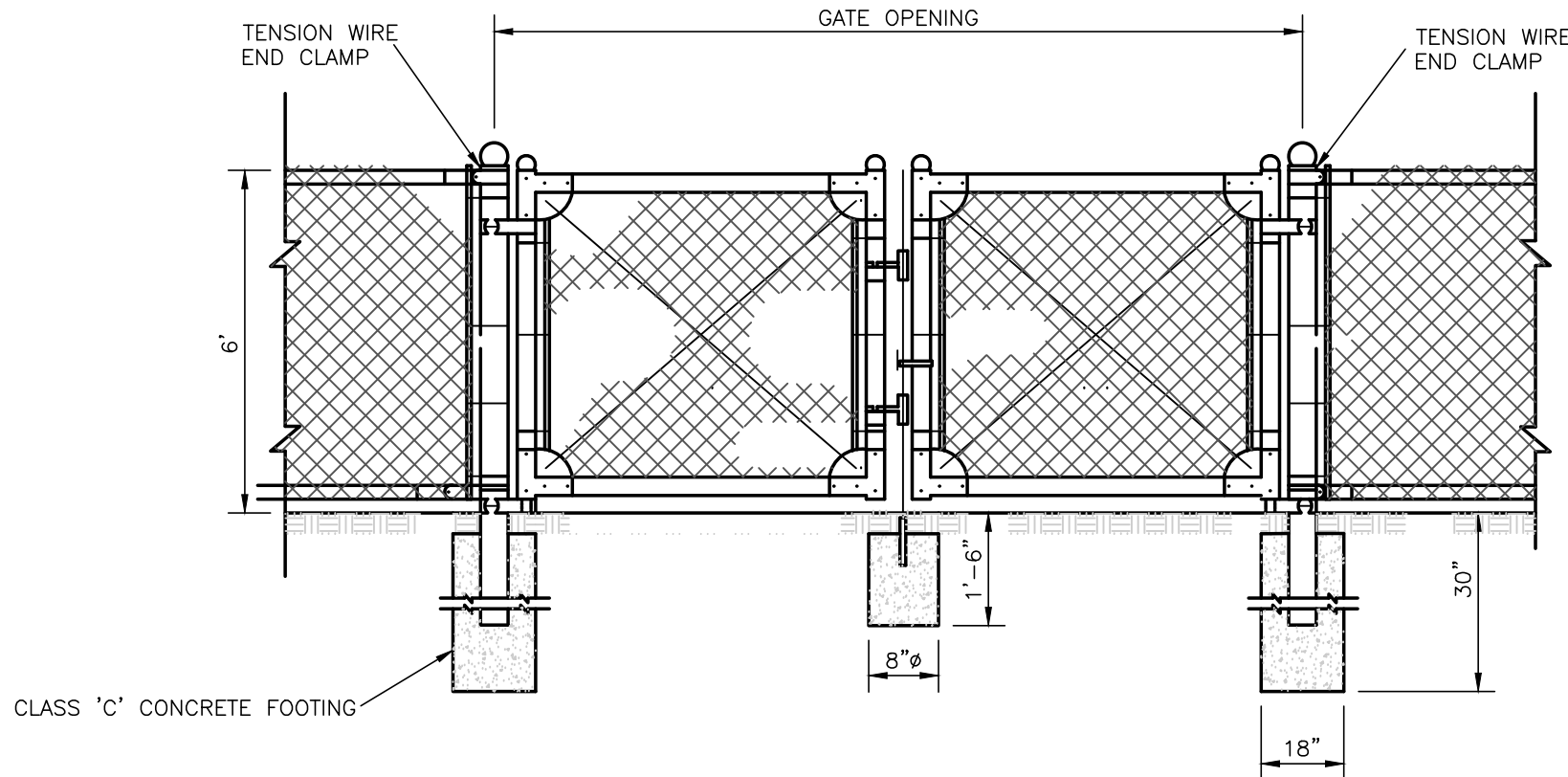
CONSTRUCTION PLANS FOR
HARDY COUNTY PSD BUILDING
HARDY COUNTY, WEST VIRGINIA
MARCH 2022
UTILITY PLAN

SHEET No.

C-5.0



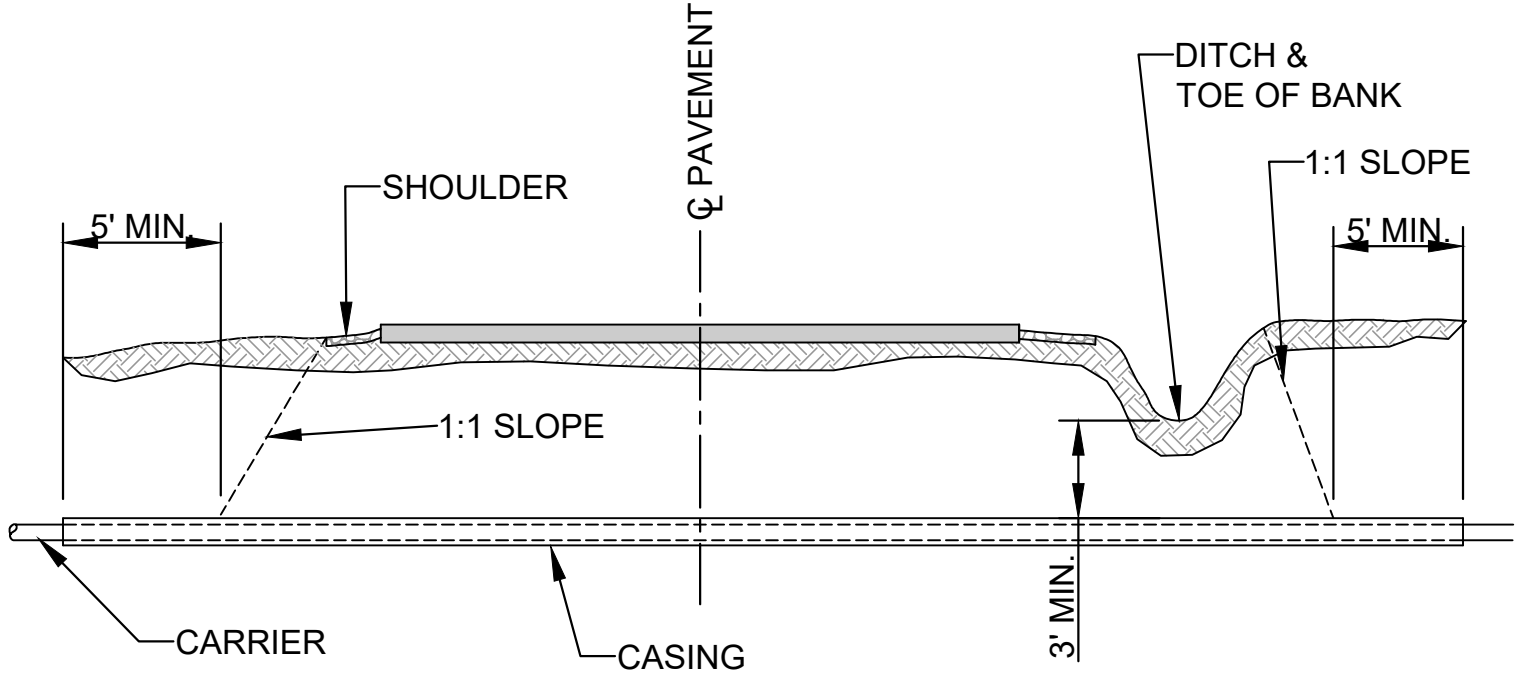
6' CHAIN LINK FENCE
NOT TO SCALE



CHAIN LINK FENCE VEHICLE GATE
NOT TO SCALE

GATE OPENING DIMENSION NOTE:
2-10' GATES FOR 24' ACCESS ENTRANCE
2-6' GATES FOR 15' ACCESS ENTRANCE

NOTE: ALL LINES AND/OR CASINGS SHALL
BE INSTALLED UNDER OR AROUND
DRAINAGE STRUCTURES IN A
MANNER THAT WILL NOT OBSTRUCT
THE MAINTENANCE, REPLACEMENT
OR FREE FLOW OF WATER.



TYPICAL CASING DETAIL FOR ROAD CROSSING
NOT TO SCALE



LAYOUT TAB: D7
CAD FILE: R:\V08\080-0958-OFFICE BUILDING-HARDY COUNTY PSD---Chris\Drawing\Civil\0958-DET\MLS.dwg
PLOT DATE/TIME: 9/12/2022 5:31 PM

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1	PAE	04.08.2022	Addendum 1-Fence height
4	PAE	09.12.2022	Fence height, posts diameter, concrete depth. Gas line bore detail added.
NO.	BY	DATE	DESCRIPTION

SCALE: AS SHOWN	
DRAWN: DATE:	
CHECKED: PAE DATE: 04.08.2022	
APPROVED: RRM DATE: 04.08.2022	
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

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PHASE No.
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PROJECT No.
060-0958

CONSTRUCTION PLANS FOR
HARDY COUNTY PSD BUILDING
HARDY COUNTY, WEST VIRGINIA
MARCH 2022
DETAILS

SHEET No.
C-7.7