

City of Key West
Structural Visual Assessment

KEY WEST DIESEL PLANT

Prepared for:

City of Key West, Engineering Director
1300 White Street, Key West, FL, 33040

Project No: 6788-18-3057

July 26, 2018



July 26, 2018

Mr. James Bouquet, PE
City of Key West
Engineering Director
1300 White Street
Key West, FL 33040

Subject: Structural Visual Assessment on the
KEY WEST DIESEL PLANT
101 – 111 Geraldine Street, Key West, FL 33040

Dear Mr. Bouquet:

Wood Environment & Infrastructure Solutions, Inc. (hereafter referred to as WEIS), is pleased to present this report in accordance with our submitted proposal 18 PROP-MIAM-6788-08 dated 3/8/2018, P.O. #086540.

We appreciate this opportunity to offer our professional services on this project. We look forward to working with you, and are committed to providing the services you require for successful completion of this important project within the time frame required. If you have any questions or comments regarding this report, please let us know. You may feel free to contact us at (305) 826-5588.

Sincerely,

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.

Augusto Poitevin, PhD, PE
Associate Structural Engineer

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Principal Engineer

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1.0 INTRODUCTION

In accordance with our submitted proposal dated 3/8/2018, Wood Environment & Infrastructure Solutions, Inc (WEIS) performed a Visual Building Assessment of the Key West Diesel Plant (KWDP) existing facility located on 101-111 Geraldine Street in Key West, Florida on 5/01/2018. In general, the scope of work consists on a site visit to perform in addition to the visual assessment, a laser scanning of the closed facility to document the existing conditions.

The building complex consists of four (4) interconnected buildings and a small structure (Building 5). Refer to Figure 1 & 2 for building name and location. Refer to Appendix (A thru D) for building dimensions, elevations and selected images of the existing conditions.

WEIS used a LiDAR (Laser Scanner) unit to create a three-dimensional virtual environment where we can document the project and used that information at a later time for the purpose of quantifying and creating a building repair cost estimate. In addition, it will help in sharing current and future information with the client.

Based on the evaluation of the obtained data and the visual assessment, a General Cost Estimate is provided (see Appendix E) considering the existing conditions and collected data. Refer to the Building Estimate section 5.0 for the estimating basis and assumptions.

The scope of the Estimate No.1 (Estimate Excluding Structure Steel Wall Reinforcement) is the restoration of the building complex to the original conditions and make it water tight. The latest edition of Florida Building Code Existing Building Edition (FBCEB), where used and it is assumed that the building complex occupancy remains the same as original, with the facility closed to the public. The second estimate, Estimate No. 2 (Estimate Including Structure Steel Wall Reinforcing) considers a change of occupancy and a complete compliance of the current Florida Building Code Building Edition (FBC). Refer to the Estimate section 5.0 and Appendix E.



Figure 1: Aerial view of the KWDP from the South-East of the property.



Figure 2: Aerial view of the KWDP from the West of the property.

2.0 BUILDING PARTIAL HISTORY AND BACKGROUND

The brick structures were built as a gas plant in 1884 and were the first large scale source of power in Key West. Electric power was in its infancy during the late 1800s. In the early years of gas plant operations, the goal of a utility gas works was to produce the greatest amount of illuminating gas from coal.



Figure 3: Historical picture of the Key West Diesel Plant facility.

The coal gas produced in this plant was smoky and proved to be an inefficient and inadequate lighting source. The company foundered until, in 1890, John Jay Philbrick acquired a controlling interest in the plant and transformed the facility to a steam powered electric power plant. It was renamed the Key West Coal and Electric Power Company.

Upon J.J. Philbrick's death, his heirs consolidated the plant with William Curry's power plant. Curry's plant had been the sole large-scale competitor of Philbrick's plant. A few years later, the combined power plants were purchased by Stone and Webster, an electrical engineering company based out of Stoughton, Massachusetts.

(www.keywesthistoricmarkertour.org/Markers_Detail.php?ProductID=523)

At the present time the facility is closed. The City is in the process of evaluation and determination for possible repair alternatives.

3.0 BUILDING ASSESSMENT

WEIS performed a site visit on 5/1/2018 to perform a laser scanning of the facility. The existing elements were digitally captured on a virtual environment with the use of a BLK360 tripod based, terrestrial scanner manufactured by Leica Geosystems with an accuracy of +/- 1/4" over 66' as indicated by the manufacturer specifications which projected and recorded the position of over 360 million points of measurable information per second. The technology is based on the use of millions of laser beams projected from the device that will bounce off existing surfaces on the areas being scanned. The scanner then records the coordinates in all three axes, (X, Y, Z) locations of those surfaces along with color information.



Figure 4: BLK360 Laser Scanner by Leica Geosystems.

The data collection was made one building at a time. The scanner was located on the concrete slab and re-located to ensure adequate exposure of the existing elements in order to capture a comprehensive point cloud. The proprietary software allows to combine all the scanned locations in order to create a complete three-dimensional point cloud model of the interior of the structure. (Refer to Figure 5 & 6).

This is an efficient and cost-effective way to collect and record existing condition of the site. This allows to capture a great amount of data and obtain measurements from areas that would not be accessible.

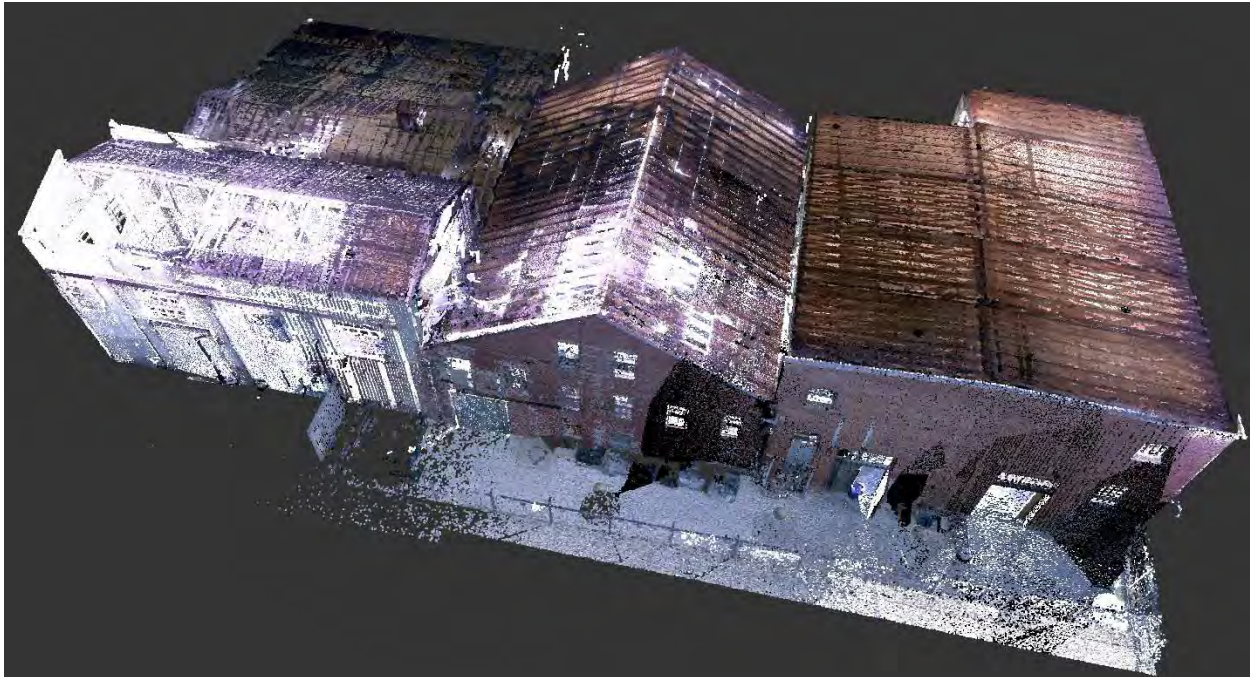


Figure 5: Image showing the complete facility created from a 3D point cloud.

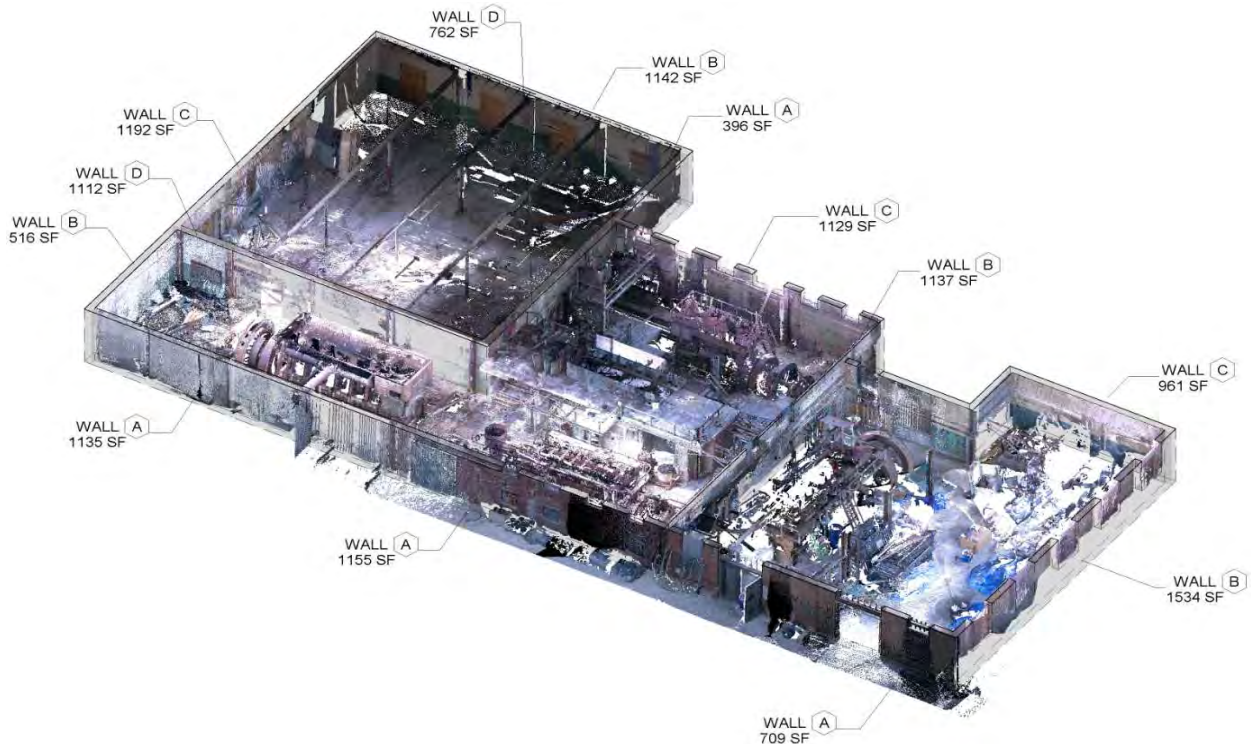


Figure 6: Partial image showing the interior location of the remaining equipment and stored items.

4.0 BUILDING FINDINGS AND RECOMMENDATIONS

The Key West Diesel Plant (KWDP) has been previously investigated. An Environmental Report, Material testing investigating lead and asbestos and a Structural Assessment (Structural Condition Assessment, Key West Diesel Plant, Key West by Atlantic Engineering Services) was done as recent as 2016. We have reviewed the previous Structural Assessment and we have included the drawings as part of our report (See Appendix F) to complement our building findings. No material testing, or structural analysis has been done for use in this report. The findings and recommendations are based on professional experience, site visit, visual assessments and laser scanning.

Based on our visual assessment and site visit of the facility, these are our building findings and recommendations. It should not be considered as a final absolute of all the building deficiencies, but they are included in the following section as a guidance recommendation. Additional testing materials on the facility is recommended (Walls, geotechnical, etc.), accompanied of structural analysis of the facility based on the final decision of the City in terms of the level of restoration, occupancy use and historical requirements.

Refer to Appendix A thru D for interior elevations and pictures of each of the building elevations. The Figures are organized based on a plan view showed on the first figure of each of the buildings.

Building 1 (Appendix A)

- We found that the original roof of the existing Building 1 was replaced. New pre-fabricated wood joists were installed in place. The newly replaced roof deck shows signs of corrosion. The roof screws and recently installed gutters shows signs of corrosion. The recently installed roof screws and gutters need to be replaced if deteriorated.
- The steel beams and columns are riveted. They consist of a composite section composed of double angles riveted to a center plate. Some of the columns are heavily corroded at the base. The plates and anchor exhibits signs of corrosion and they need to be cleaned and if the base material is excessively deteriorated, repair of the elements would be necessary.
- Slab on grade is cracked in multiple locations. Repair or replacement of some to the cracked areas is necessary.
- Most of the windows and doors are broken. Replacement of those windows and doors with Miami-Dade NOA certification is necessary (NOA, Notice of Acceptance from Miami Dade County).
- Windows sills are spalled and cracked in multiple locations. The cracks show signs of rebar corrosion. Replacement and reinforcement of those sills to also accommodate the new or restored windows is necessary.
- Multiple cracks on the masonry brick walls, interior and exterior was noticed on our visual assessment. Evaluation and repair of the existing cracks is necessary.

- Repointing of the masonry brick walls is necessary to restore capacity and stability to the existing walls.
- Cracks at the foundation level on the NW portion of the building (exterior) were noticed. It is assumed minor foundation settlement on that portion of the structure. Repair of those cracks is necessary.
- The existing equipment rests on existing pits that are full of water and debris. Necessary to fill and repair those pits to prevent any further water accumulation and deterioration of the existing equipment.

Building 2 (Appendix B)

- The roof deck and supporting members are extremely deteriorated in Building 2. The existing steel deck and wood roof panels have caved in multiple locations and the remaining material is not in good condition. The existing roof panels and wood joists need to be replaced. Multiple members shown levels of deterioration and decay.
- The main transversal trusses and supports shows signs of deterioration. The main wood trusses need to be replaced.
- Some of the columns are heavily corroded at the base. The plates and anchor exhibits signs of corrosion and they need to be cleaned and if the base material is excessively deteriorated, repair of the elements would be necessary.
- The main interior frame columns and beams exhibits signs of corrosion. The affected areas need to be cleaned from corrosion and repainted. Possible lead could be present at those locations.
- The interior concrete platform shows signs of concrete cracking and spalling. Restoration of the spalled and cracked areas will be necessary.
- Some areas of the platform slab are already shored. Those concrete areas need to be repaired and restored to original conditions.
- Steel ladder to access the interior concrete platform needs to be replaced or repaired.
- Slab on grade is cracked in multiple locations. Repair or replacement of some to the cracked areas is recommended.
- Multiple cracks on the masonry brick walls, interior and exterior were noticed on our visual assessment. Evaluation and repair of the existing cracks is necessary.
- The existing equipment rests on existing pits that are full of water and debris. It is necessary to fill and repair those pits to prevent any further water accumulation and deterioration of the existing equipment.
- Repointing of the masonry brick walls is necessary to restore capacity and stability to the existing walls.

Building 3 (3a & 3b, Appendix C)

- The roof deck on the Eastern portion of the building has caved in and is open to the elements. On the western portion of the building, it shows a newer steel deck roof panels.

The secondary and primary support elements (wood purlins, trusses) show signs of deterioration and they need to be replaced.

- Slab on grade is cracked in multiple locations. Repair or replacement of some to the cracked areas is necessary.
- Multiple cracks on the masonry brick walls, interior and exterior was noticed on our visual assessment. Evaluation and repair of the existing cracks is necessary.
- The exterior wall on the South portion of Building 3 shows excessive number of cracks. The wall is a combination of CMU and masonry bricks and need to be restore to original conditions.
- Repointing of the masonry brick walls is necessary to restore the original strength capacity to the existing walls.
- Some of the columns are heavily corroded at the base. The plates and anchor exhibits signs of corrosion and they need to be cleaned and the corroded material replaced. If the section is excessively deteriorated, replacement of the elements would be necessary.
- The main interior frame columns and beams exhibits signs of corrosion. The affected areas need to be cleaned from corrosion and repainted. Possible lead could be present at those locations.
- Exterior wall buttresses are cracked and shows signs of deterioration. Evaluation and repair of the signs of deterioration are necessary.

Building 4 (Appendix C)

- Almost half of the roof deck on Building 4 has caved in and is open to the elements. The secondary and primary support elements (wood purlins, trusses) are deteriorated and they need to be replaced.
- Deteriorated roof trusses need to be replaced. The top and bottom cords, web elements and connections between the elements and walls shows signs of deterioration and decay.
- Interior brick wall between buildings 3 and 4 shows a big opening that has been done without any perimeter support of the opening. Loose masonry bricks put in danger the stability of the wall. This opening and wall needs to be repair.
- Some of the columns are heavily corroded at the base. The plates and anchor exhibits signs of corrosion and they need to be cleaned and if the base material is excessively deteriorated, repair of the elements would be necessary.
- Repointing of the masonry brick walls is necessary to restore capacity and stability to the existing walls.
- Multiple cracks on the masonry brick walls, interior and exterior was noticed on our visual assessment. Evaluation and repair of the existing cracks is necessary. Some of the walls have been previously repaired with reinforced concrete that needs to be evaluated and repaired due to cracks and concrete spalling due to steel reinforcement corrosion.
- Slab on grade is cracked in multiple locations. Repair or replacement of some to the cracked areas is recommended.

- The existing equipment rests on existing pits that are full of water and debris. Necessary to fill and repair those pits to prevent any further water accumulation and deterioration of the existing equipment.
- The main interior frame columns and beams exhibits signs of corrosion. The affected areas need to be cleaned from corrosion and repainted. Possible lead could be present at those locations

Building 5 (Appendix D)

- Cracked perimeter walls, concrete spalling, needs to be repaired. Stucco needs to be restored to original condition.
- Interior steel members, supports and exhaust needs to be replaced or eliminated.
- The existing pits that are full of water and debris. Necessary to fill and repair those pits to prevent any further water accumulation and deterioration of the existing equipment.

5.0 BUILDING ESTIMATE

The Building Estimate is located in Appendix E. The basis for preliminary cost Estimate No. 1, it was assumed that the goal of this restoration project is to get the structure structurally sound and water tight. Estimate No. 2 basis assumes the current building use is changed and the Current Florida Existing Building Code 2017 and Florida Building Code 2017 Edition will be used for future structural remediation.

The Estimate No.1 is based on the Florida Building Code Existing Building Edition (FBCEB), Section 606.2, Repairs to damaged buildings. Based on the definition of substantial structural damage:

- 1) The vertical elements of the LFRS (Lateral Force Resisting System) have suffered damage such that the lateral load-carrying capacity of any story in any horizontal direction has been reduced by more than 33 percent from its pre-damage condition.
- 2) The capacity of any vertical component carrying gravity load, or any group of such components, that supports more than 30 percent of the total area of the structure's floor and roof has been reduced more than 20 percent of its pre-damage condition and the remaining capacity of such affected elements with respect to all dead and live loads, is less than 75 percent of that required by this code for new buildings of similar structure, purpose and location.

FBCEB on section 606.2.1, Repairs for less than substantial structural damage, the damaged elements shall be permitted to be restored to their pre-damage condition.

Based on the previous FBCEB sections, some of the existing structural components have suffered substantial structural damage and need to be replaced, and need to comply with the current Florida Building Code Edition (2017). Some other structural components, for example the existing

walls, based on the visual assessment and the FBCEB, they can be restored to their pre-damaged condition.

Restoration to the original conditions, does not mean that the performed restoration or repair is in compliance of the current Building Codes. The original capacity will be in place in the repaired element, but not necessarily the element or elements will be able to resist loads generated by more restrictive and newer codes, as the current version of the FBC.

Estimate No. 2 is based on the assumption and recommendation from the Draft from the Historic Architectural Review Commission (HARC), that if structural repairs will be in place for the Facility, change of occupancy would be necessary and recommended. As the Draft report from HARC states” pursue rehabilitation focused on a new use that is compatible and sensitive to the historic character of the site”

FBCEB Section 407 states that if there is a change of occupancy on the structure, the repaired or restored building need to comply with the requirements of the Florida Building Code Building Edition (FBC2017). That means that if the building facility is open to the public, the structure repairs and improvements, they all need to comply with the current FBC edition. Future additional testing of existing materials is recommended and necessary on both estimate assumptions.

The following are additional assumptions incorporated on the submitted building’s estimate and applies to Estimate No.1 and Estimate No.2:

Building 1 Restoration Items:

- Remediation: Asbestos and lead paint are present. Note that the lead paint is on steel and is to be abated and primed. The cost does not reflect sand blasting of steel. Large Industrial Turbines will remain in place as historical items.
- Roof: The roof requires no work, except minor corroded gutters and connectors.
- Exterior walls: The exterior walls are made up metal panels that need repair.
- Windows: Windows are currently made up of plywood infills. Each opening will require reinforcing of the opening, with an aluminum window meeting Florida hurricane codes.
- Exterior Doors: Doors and hardware are replaced with door openings to be modified as required to meet Egress door size requirements.
- Interior Walls: Any non-essential wiring, tubing, hangers, etc will be removed. The walls will be repointed and repaired.
- Floor Slab: The floor slab will have pits and trenches 2 feet or less deep filled with concrete. Pits and trenches greater than 2 feet with be filled with structural fill, have dowels inserted at the perimeter edges of the pit and then a reinforced capping slab placed.
- Fire Protection: One ABC Fire extinguisher on a hook.
- Mechanical: There is no mechanical work required for building 1.

- Electrical: There will be minimal electrical work incorporated for minimal use. A breaker box will provide power for minimal life support illumination.
- The premises will be broom clean.

Building 2 Restoration Items:

- Remediation: Asbestos and lead paint are present. Note that the lead paint is on steel and is to be abated and primed. The cost does not reflect sand blasting of steel. Large Industrial Turbines will remain in place as historical items.
- Roof: The roof requires a complete demolition and replacement. The roof will be demolished leaving the existing structural steel components. Timber beam pads will be thru bolted to the steel. A new roof frame will be constructed of dimensional lumber and sheathed with 5/8" plywood. Building parapets will be repaired and wood framing sheathed with plywood will encapsulate the brick parapet. Crickets will be framed to redirect water runoff. The parapets will then be wrapped in galvalume sheet metal that will be in-kind with a new galvalume metal standing seam metal roof. Gutters will be added for water control
- Exterior walls: The exterior walls are made brick that need total repointing and restoration.
- Windows: Windows are currently made up of plywood infills. Each opening will require reinforcing of the opening, with an aluminum window meeting Florida hurricane codes.
- Exterior Doors: Doors and hardware are replaced with door openings to be modified as required to meet Egress door size requirements. Exterior overhead door openings are infilled with a structural cold formed stud infill with sheathings to be made water tight.
- Interior Walls: Any non-essential wiring, tubing, hangers, etc will be removed. The walls will be repointed and repaired.
- Floor Slab: The floor slab will have pits and trenches 2 feet or less deep filled with concrete. Pits and trenches greater than 2 feet will be filled with structural fill, have dowels inserted at the perimeter edges of the pit and then a reinforced capping slab placed.
- Fire Protection: One ABC Fire extinguisher on a hook.
- Mechanical: There is no mechanical work required for Building 2.
- Electrical: There will be minimal electrical work incorporated for minimal use. A breaker box will provide power for minimal life support illumination.
- The premises will be broom clean.

Building 3 (3a & 3b) Restoration Items:

- Remediation: Asbestos and lead paint are present. Note that the lead paint is on steel and is to be abated and primed. The cost does not reflect sand blasting of steel. Large Industrial Turbines will remain in place as historical items.
- Roof: The roof requires a complete demolition and replacement. The roof will be demolished leaving the existing structural steel components. Timber beam pads will be thru bolted to the steel. A new roof frame will be constructed of dimensional lumber and sheathed with 5/8" plywood. Building parapets will be repaired and wood framing

sheathed with plywood will encapsulate the brick parapet. Crickets will be framed to redirect water runoff. The parapets will then be wrapped in galvalume sheet metal that will be in-kind with a new galvalume metal standing seam metal roof. Gutters will be added for water control

- Exterior walls: The exterior walls are made brick that need total repointing and restoration.
- Windows: Windows are currently made up of plywood infills. Each opening will require reinforcing of the opening, with an aluminum window meeting Florida hurricane codes.
- Exterior Doors: Doors and hardware are replaced with door openings to be modified as required to meet Egress door size requirements. Exterior overhead door openings are infilled with a structural cold formed stud infill with sheathings to be made water tight.
- Interior Walls: Any non-essential wiring, tubing, hangers, etc will be removed. The walls will be repointed and repaired.
- Floor Slab: The floor slab will have pits and trenches 2 feet or less deep filled with concrete. Pits and trenches greater than 2 feet will be filled with structural fill, have dowels inserted at the perimeter edges of the pit and then a reinforced capping slab placed.
- Fire Protection: One ABC Fire extinguisher on a hook.
- Mechanical: There is no mechanical work required for Building 3.
- Electrical: There will be minimal electrical work incorporated for minimal use. A breaker box will provide power for minimal life support illumination.
- The premises will be broom clean.

Building 4 Restoration Items:

- Remediation: Asbestos and lead paint are present. Note that the lead paint is on steel and is to be abated and primed. The cost does not reflect sand blasting of steel. Large Industrial Turbines will remain in place as historical items.
- Roof: The roof requires a complete demolition and replacement. The roof will be demolished leaving the existing structural steel components. Timber beam pads will be thru bolted to the steel. A new roof frame will be constructed of dimensional lumber and sheathed with 5/8" plywood. Building parapets will be repaired and wood framing sheathed with plywood will encapsulate the brick parapet. Crickets will be framed to redirect water runoff. The parapets will then be wrapped in galvalume sheet metal that will be in-kind with a new galvalume metal standing seam metal roof. Gutters will be added for water control
- Exterior walls: The exterior walls are made brick that need total repointing and restoration.
- Windows: Windows are currently made up of plywood infills. Each opening will require reinforcing of the opening, with an aluminum window meeting Florida hurricane codes.
- Exterior Doors: Doors and hardware are replaced with door openings to be modified as required to meet Egress door size requirements. Exterior overhead door openings are infilled with a structural cold formed stud infill with sheathings to be made water tight.
- Interior Walls: Any non-essential wiring, tubing, hangers, etc will be removed. The walls will be repointed and repaired.

- Floor Slab: The floor slab will have pits and trenches 2 feet or less deep filled with concrete. Pits and trenches greater than 2 feet will be filled with structural fill, have dowels inserted at the perimeter edges of the pit and then a reinforced capping slab placed.
- Fire Protection: One ABC Fire extinguisher on a hook.
- Mechanical: There is no mechanical work required for Building 4.
- Electrical: There will be minimal electrical work incorporated for minimal use. A breaker box will provide power for minimal life support illumination.
- The premises will be broom clean.

Building 5 Restoration Items:

- Exterior walls: The exterior walls are made brick that need total repointing and restoration.
- Mechanical: There is no mechanical work required for Building 5.

6.0 CONCLUSIONS

WEIS performed a visual assessment of the Building Complex located on 101-111 Geraldine Street in Key West on 5/1/2018. Based on the evaluation of the existing information, site visit and processed data from the laser scanning, the following are the conclusions from our previous sections:

- 1) Roof panels and wood purlins need to be replaced on Buildings 2,3 and 4.
- 2) Portions of the roof steel panels on Building 1 need to be replaced and restored to original conditions due to excessive corrosion.
- 3) Interior roof truss systems on Buildings 2,3 and 4 need to be replaced.
- 4) Structural steel columns and beams that are corroded, need to be cleaned and restored to original conditions.
- 5) Exterior and interior walls need to be restored for cracks and deterioration. Repointing on the walls is necessary and recommended to restore wall loading capacity.
- 6) Interior concrete mezzanine at Building 2, need to be repaired and restored to original conditions.
- 7) All equipment pits need to be dewatered, filled and capped.
- 8) Due to safety reasons we recommend the immediate shoring of the South wall of Building 3 & 4. We urge the city to expedite the structural repairs on the structure in order to prevent further damage and deterioration on the structure.
- 9) Multiple cracks on the concrete floor slabs need to be repaired.
- 10) Door and windows on the facility need to be replaced to Miami Dade (NOA) standards.
- 11) Interior wall between Buildings 3 & 4 has an opening that needs to be repaired. It shows loose bricks and needs to be shored and repaired.
- 12) The Estimate No. 1 or Opinion of Probable cost is based on making the Buildings structurally sound and water tight. Costs can vary depending on final design based on

latest edition of the Florida Building Cost. Refer to Appendix E for final costs and breakdown per Building.

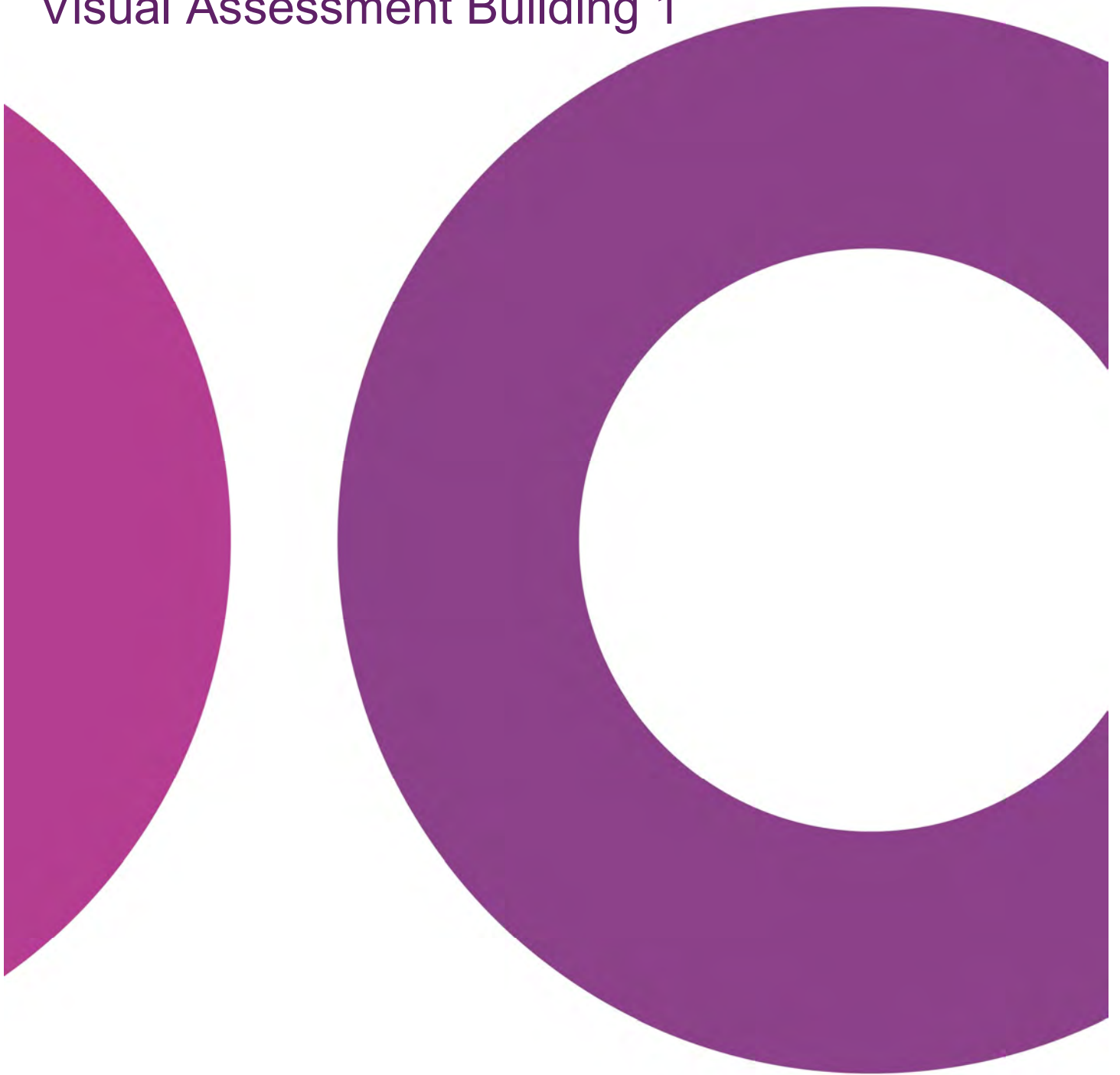
- 13) The Estimate No. 2 or Opinion of Probable Cost includes the assumptions for wall reinforcement to comply with the new edition of the FBC. Refer to Appendix E for final costs and breakdown per Building.
- 14) Further material testing, exploration and structural analysis will be necessary once the City decides on the level of repair based on the new occupancy category assigned to the facility.

7.0 REFERENCES

- 1) Summary Report of Historical Environmental Assessments Key West Diesel Plant Property, August 9, 2016,
- 2) Structural Condition Assessment Key West Diesel Plant, August 3, 2016, AES
- 3) Lead Based Paint Survey, The Structures Located at 100 Angela Street, Key West, FL, July 18, 2013, PSI
- 4) Pre-Renovation Asbestos Containing Materials Survey, 101-111 Geraldine Street, Key West, Florida, July 26, 2013
- 5) Florida Building Code, 2017 Edition
- 6) Florida Building Code, Existing Buildings, 2017 Edition
- 7) www.keywesthistoricmarkertour.org/Markers_Detail.php?ProductID=523
- 8) Draft Resolution of the Historic Architectural Review Commission (HARC)

Appendix A
Visual Assessment Building 1

wood.



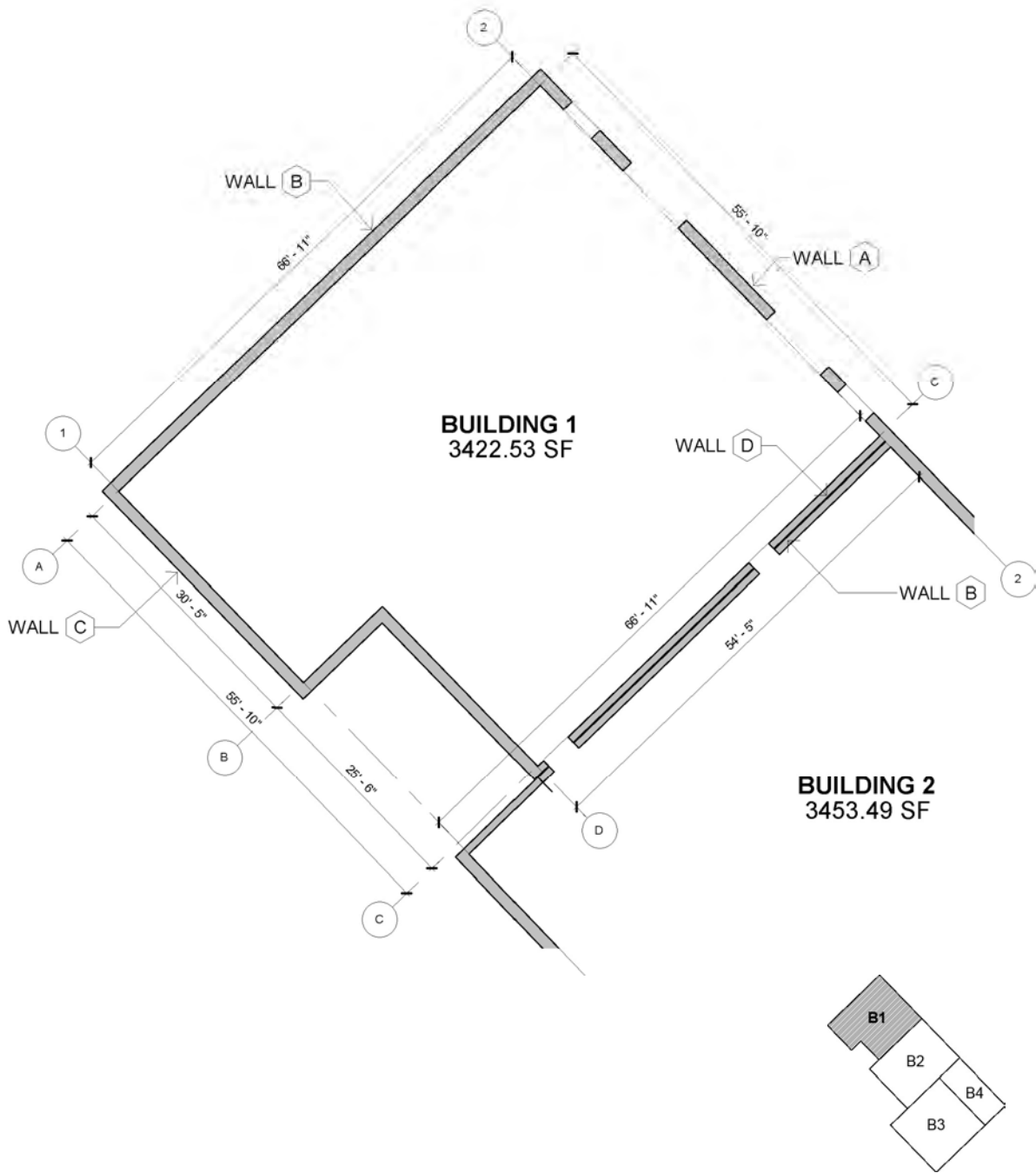


Figure A1: Building 1 Plan view.



Figure A2: Building 1, Interior Wall A elevation from Point Cloud view.



Figure A2.1: Building 1, Interior Wall A Elevation from 3D view.



Figure A3: Building 1, Interior Wall B elevation from Point Cloud view.



Figure A3.1: Building 1, Interior Wall B elevation from 3D view.

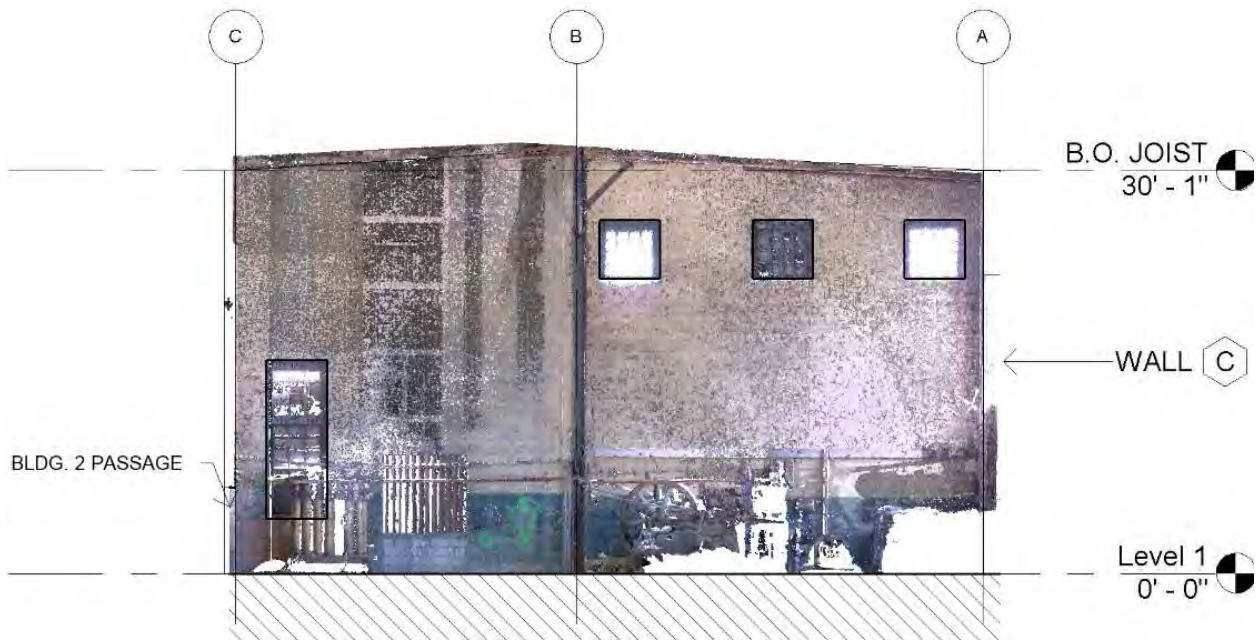


Figure A4: Building 1, Interior Wall C elevation from Point Cloud view.



Figure A4.1: Building 1, Interior Wall C elevation from 3D view.

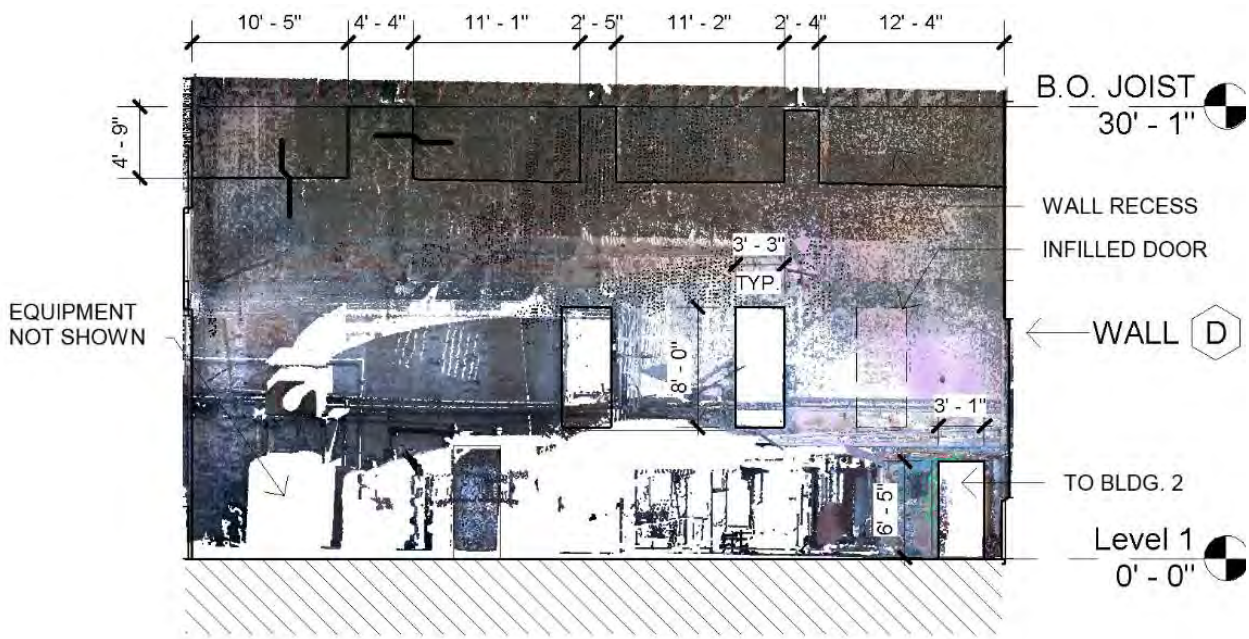


Figure A5: Building 1, Interior Wall D elevation from Point Cloud View.



Figure A5.1: Building 1, Interior Wall D elevation from 3D view.



Figure A6: Building 1 isometric view.

Appendix B
Building 2

wood.



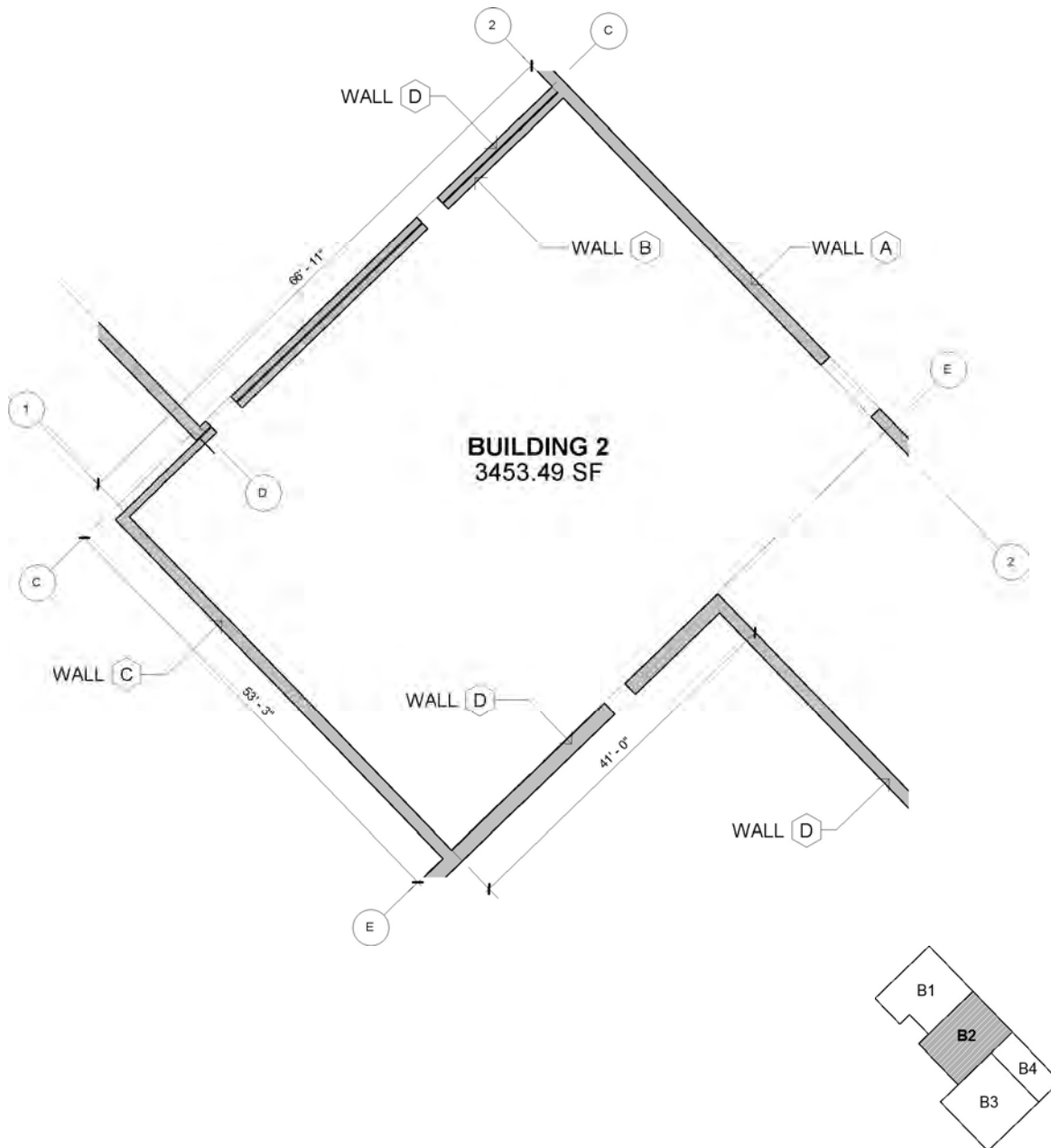


Figure B1: Building 2 Plan view.



Figure B2: Building 2, Wall A from Point Cloud View.



Figure B2.1: Building 2, Wall A interior elevation from 3D view.

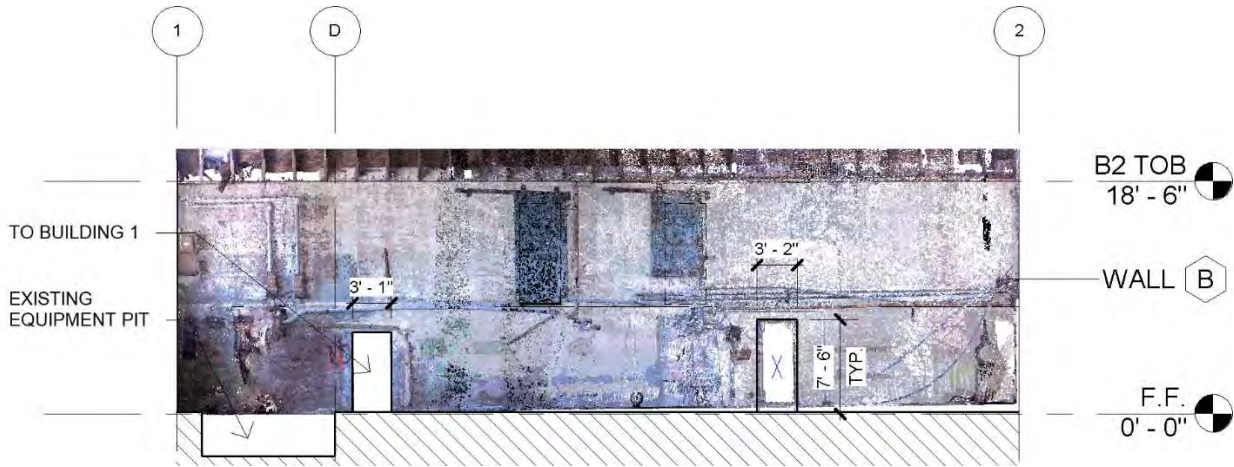


Figure B3: Building 2, Wall B from Point Cloud View.



Figure B3.1: Building 2, Wall B interior elevation from 3D view.

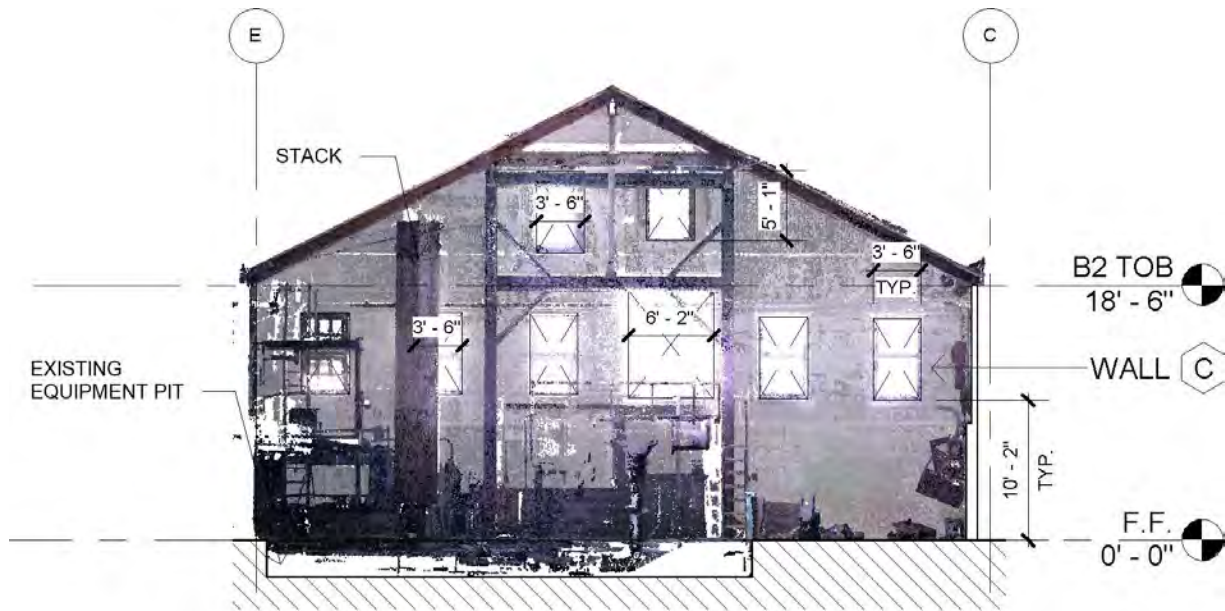


Figure B4: Building 2, Wall C from Point Cloud View.



Figure B4.1: Building 2, Wall C, interior elevation from 3D view.

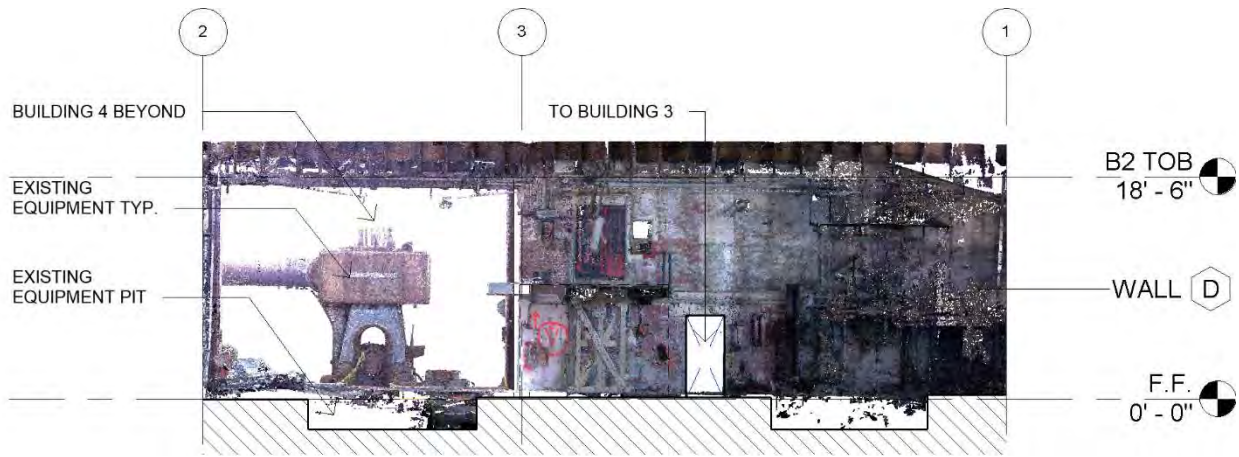


Figure B5: Building 2, Wall D from Point Cloud view.



Figure B5.1: Building 2, Wall D interior elevation from 3D view.

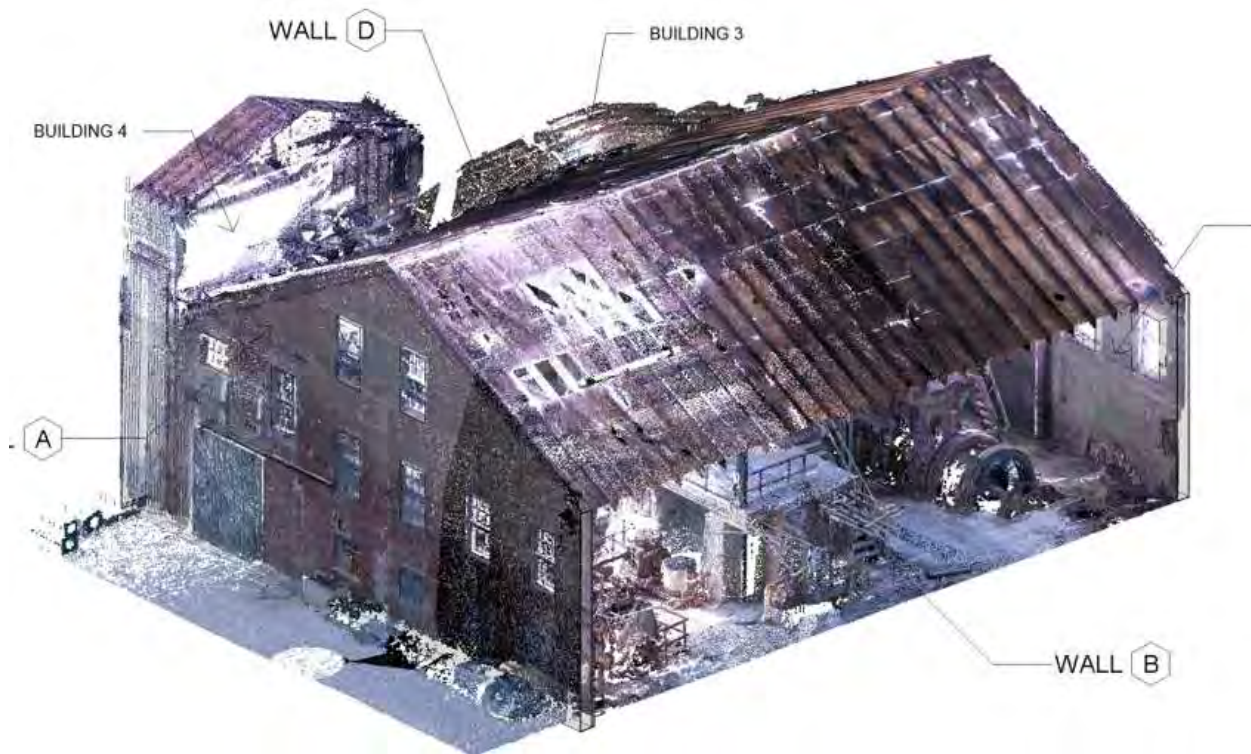
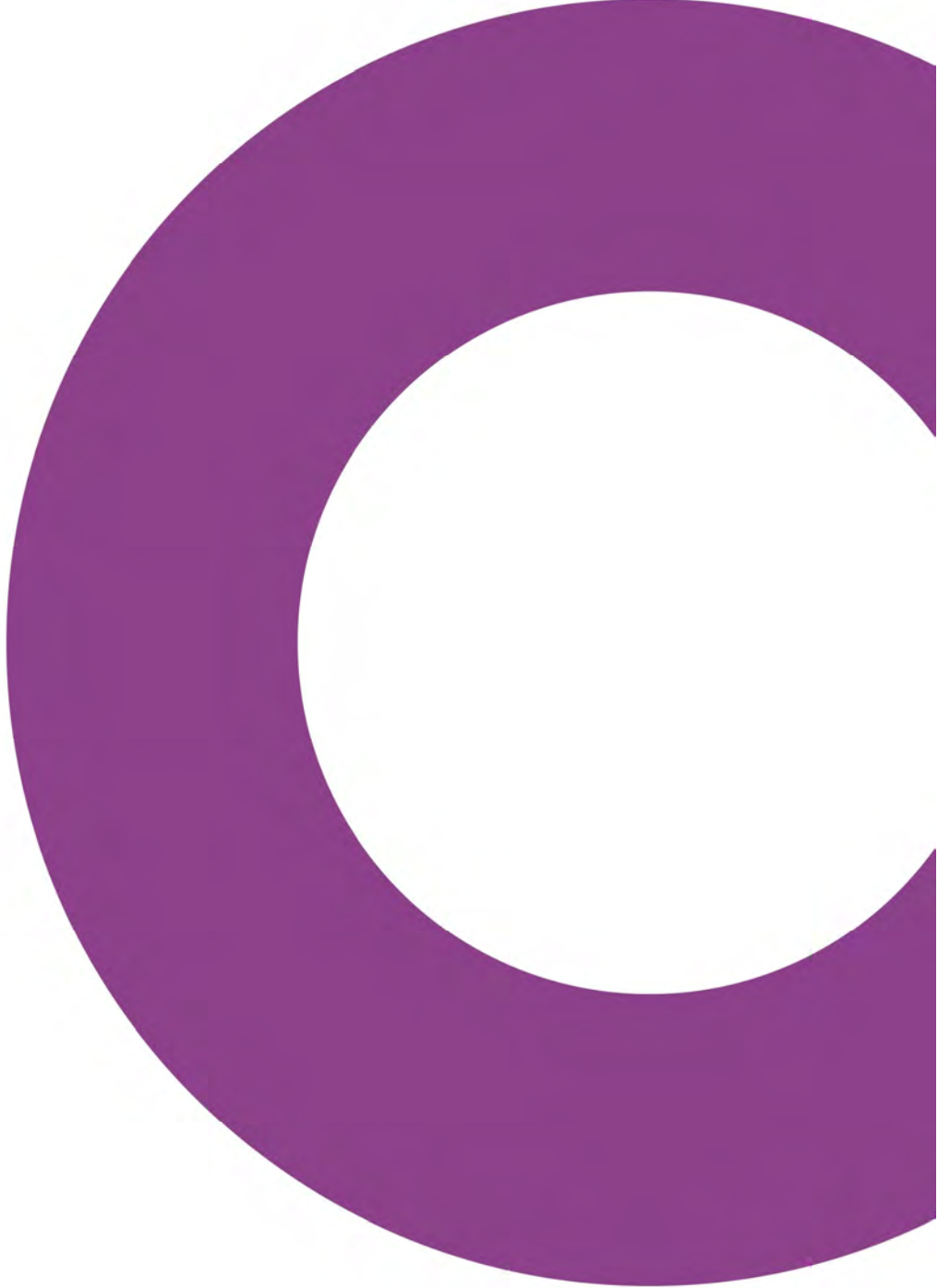


Figure B6: Building 2 Isometric View.

Appendix C
Building 3 - 4

wood.



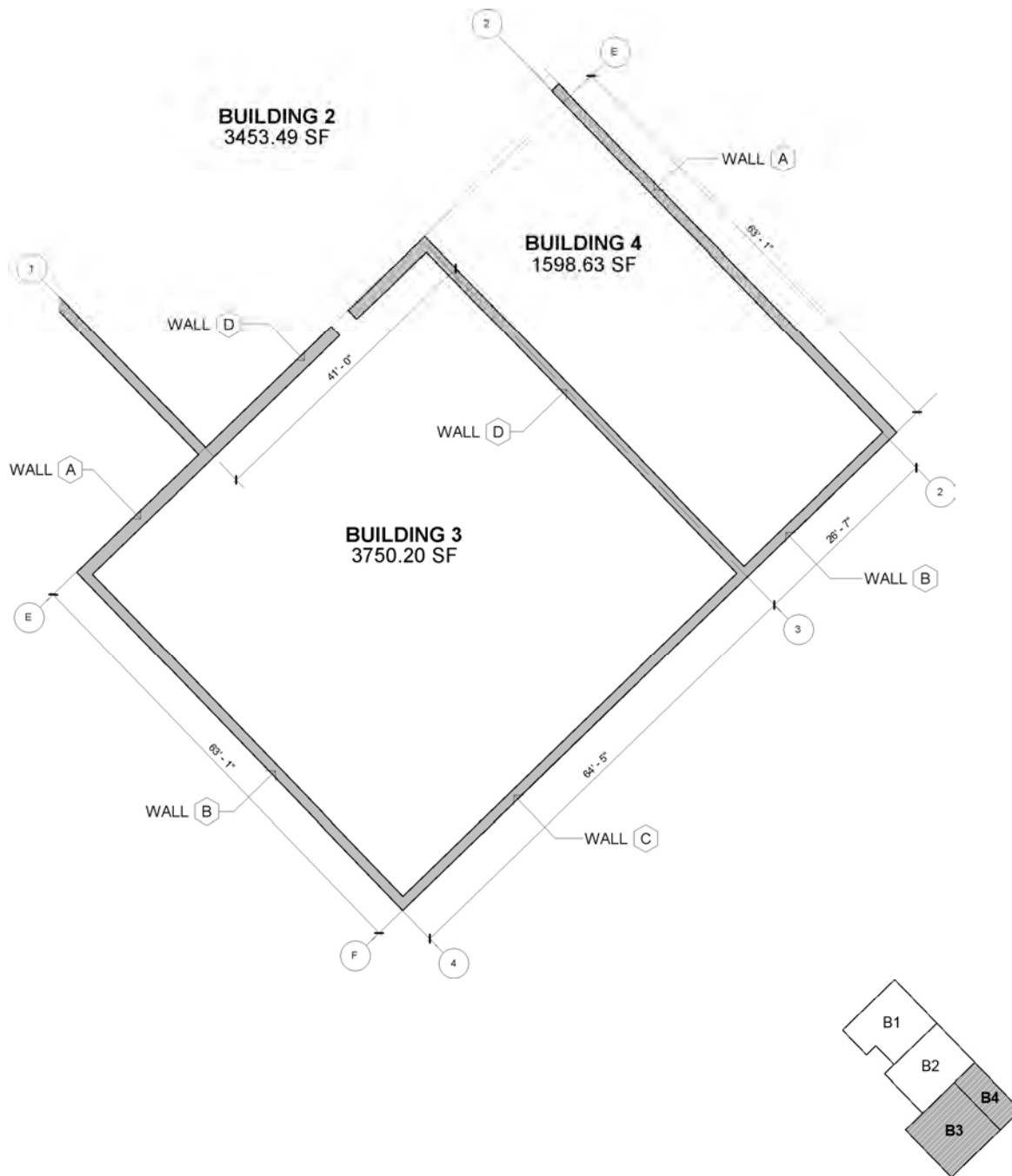


Figure C1: Building 3 & 4 Site Plan.

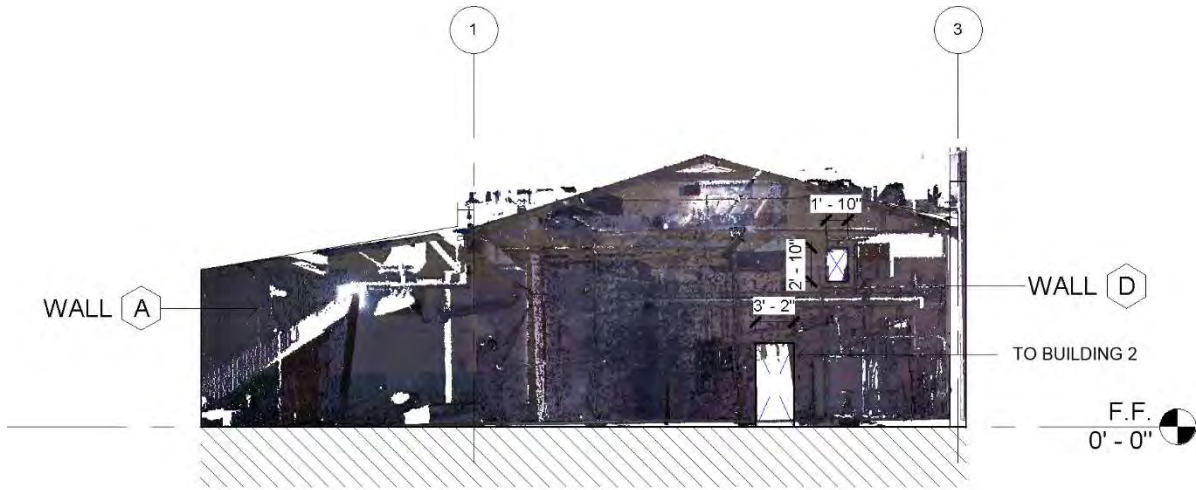


Figure C2: Building 3, Wall A & D from Point Cloud view.



Figure C2.1: Building 3, Wall A&D interior elevation from 3D view.

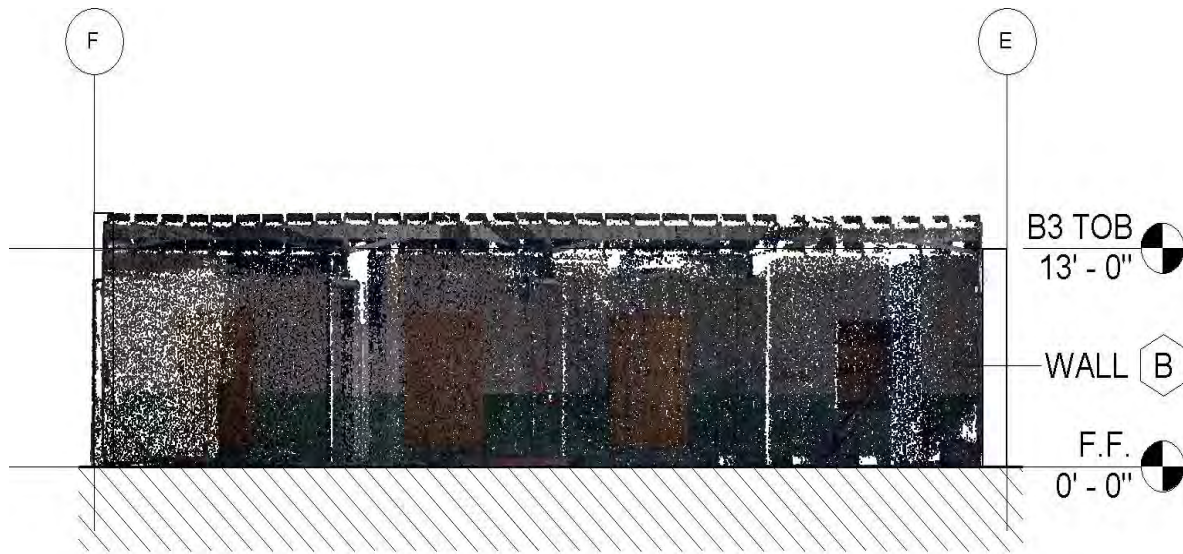


Figure C3: Building 3, Wall B from Point Cloud view.



Figure C3.1: Building 3, Wall B interior elevation from 3D view.

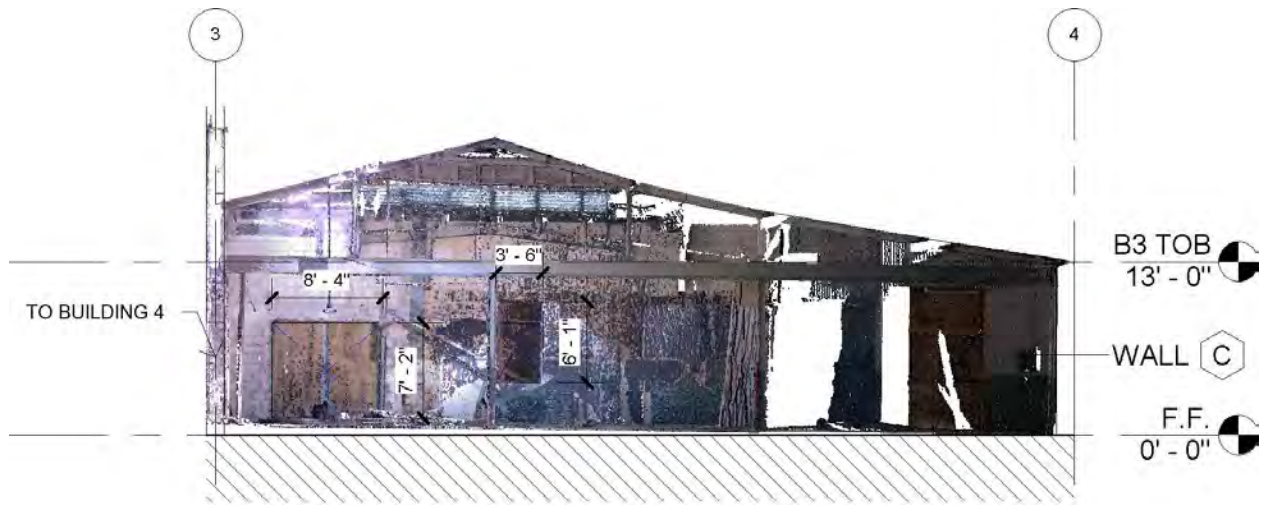


Figure C4: Building 3, Wall C from Point Cloud view.



Figure C4.1: Building 3, Wall C interior elevation from 3D view.

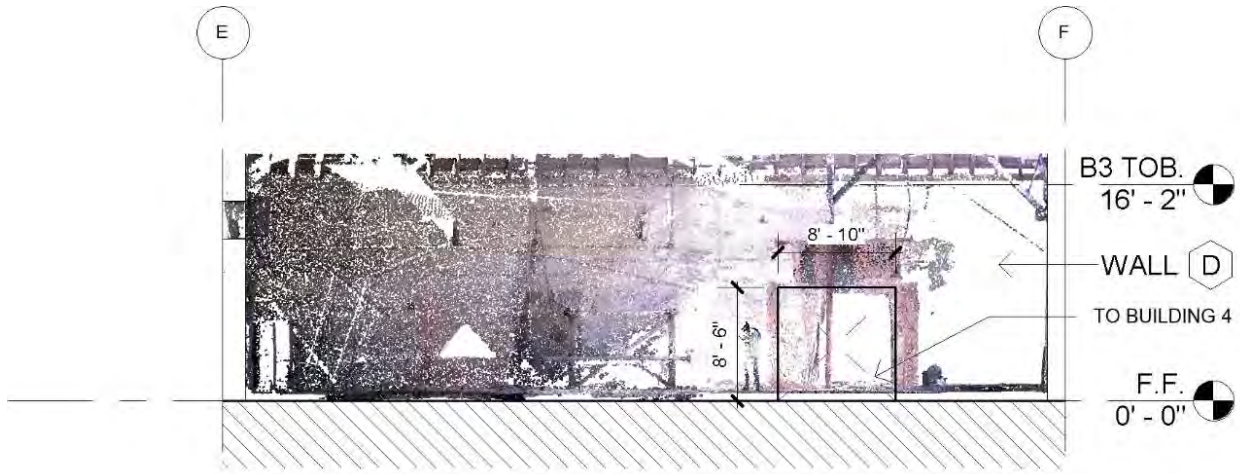


Figure C5: Building 3, Wall D from Point Cloud view.



Figure C5.1: Building 3, Wall D interior elevation from 3D view.

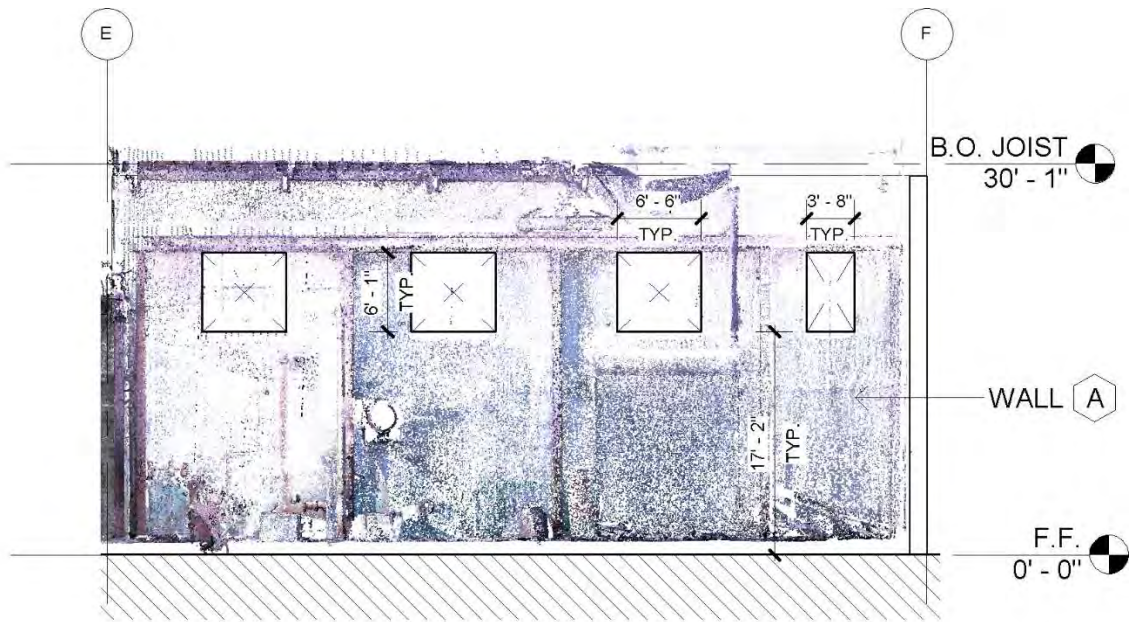


Figure C6: Building 4, Wall A from Point Cloud view.

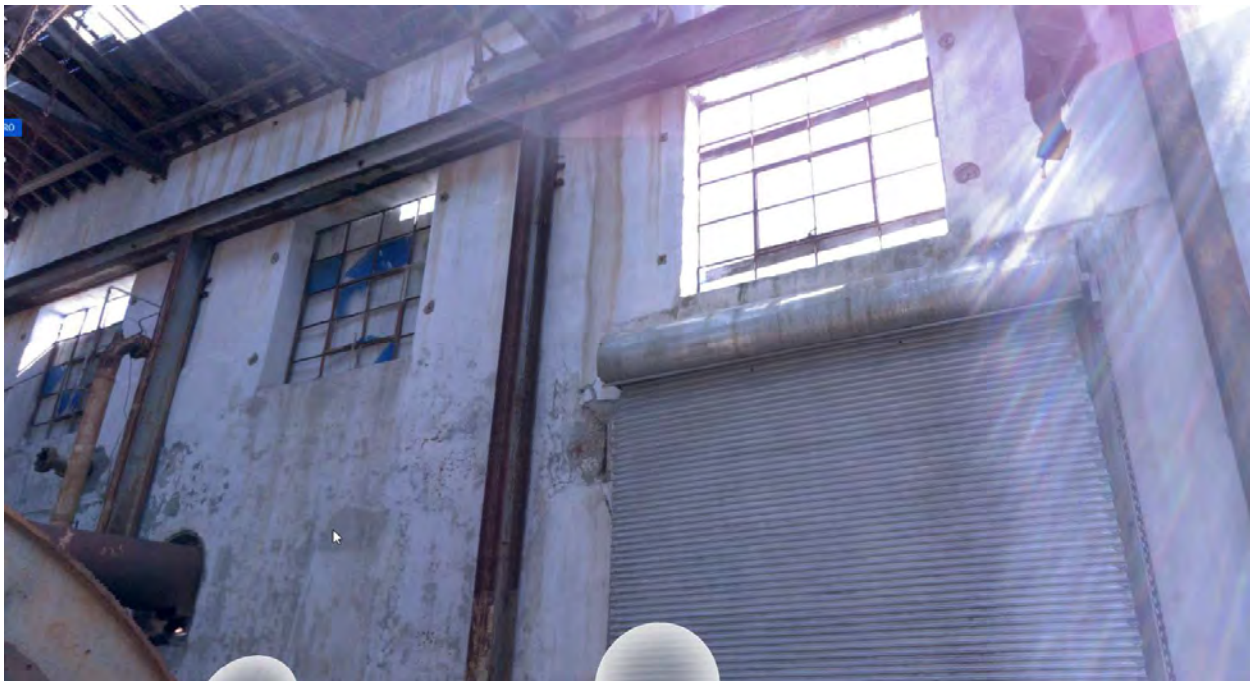


Figure C6.1: Building 4, Wall A interior elevation from 3D view.

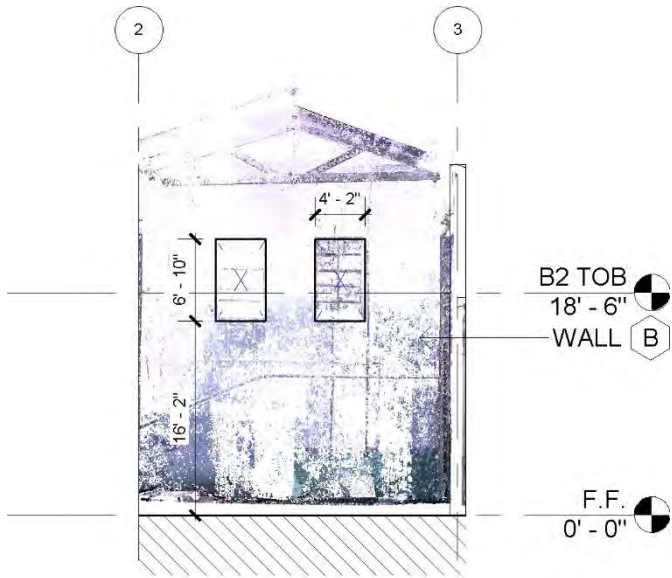


Figure C7: Building 4, Wall C from Point Cloud view.



Figure C7.1: Building 4, Wall C interior elevation from 3D view.

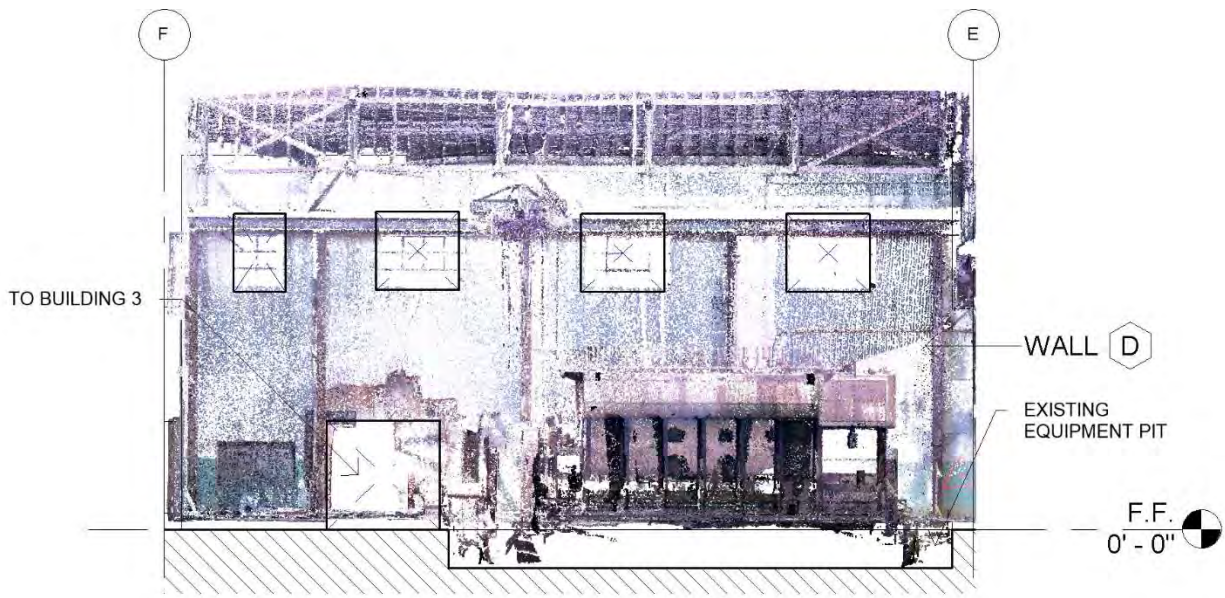


Figure C8: Building 4, Wall D from Point Cloud view.



Figure C8.1: Building 4, Wall D interior elevation from 3D view.

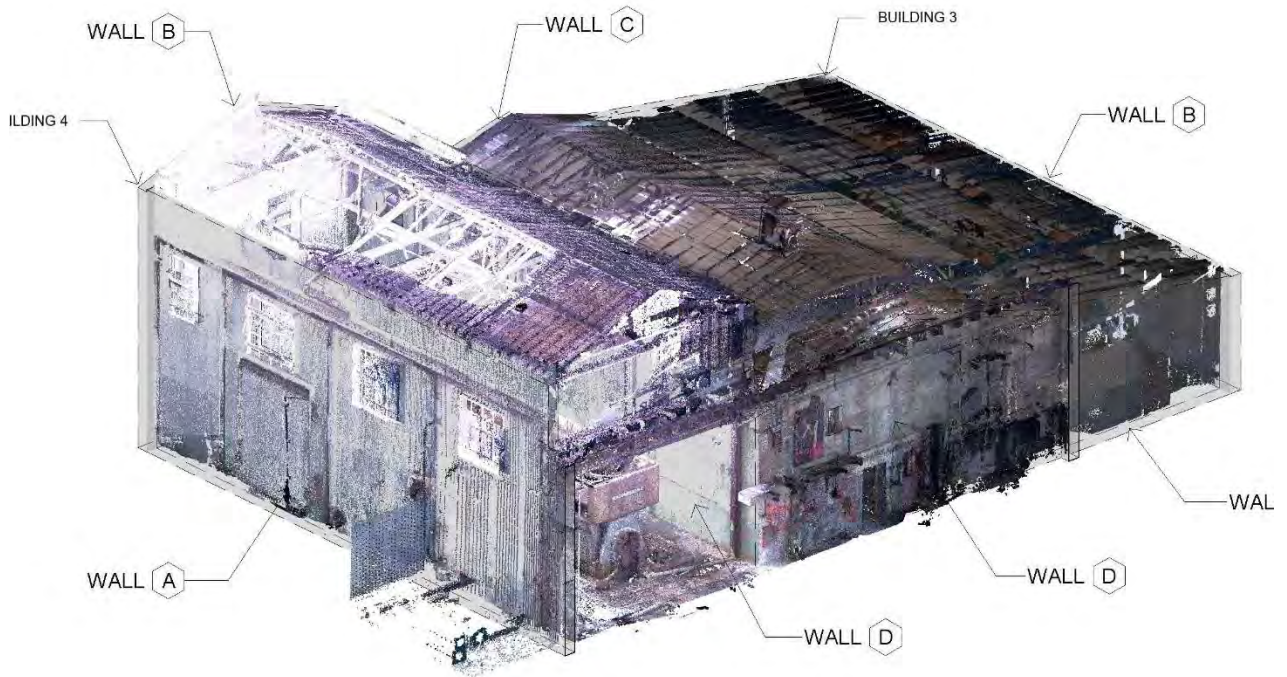


Figure C9: Isometric view Building 3-4.

Appendix D
Building 5

wood.





Figure D1: Building 5 from the South East.



Figure D2: Building 5 from the North East.



Figure D3: Plan view of Building 5.

Appendix E
Building Estimate

wood.



wood.

511 Congress Street
Portland, Maine 04101
Phone: (207) 828-2618



Project: Monroe County Diesel Plant - Restoration Budget Development
Location: Key West, Florida
Prepared By: Wood.
Date: May 30, 2018

	Stackwall Repair	Steelwall Repair
Building 1	\$ 509,020	\$ 806,073
Building 2	\$ 747,729	\$ 980,744
Building 3	\$ 938,455	\$ 1,223,670
Building 4	\$ 453,546	\$ 648,433
Building 5	\$ 62,278	\$ 62,278
Total	\$ 2,711,028	\$ 3,721,198

BASIS FOR COST ESTIMATE

- 1 The cost estimate is based upon drawings and information supplied by the Client, Architects, and Engineers. The architects and engineers have made a site visit to the project location.
- 2 Material Unit Costs are based on multiple sources including in-house, estimating publications, estimating programs such as R. S. Means 2018, and National Estimator 2018.
- 3 Craft rates and crew mixes are developed with assistance from multiple sources including in-house, estimating programs such as R. S. Means 2018 and National Estimator 2018. Commercial and industrial wage rates to satisfy Davis Bacon Wage Rate requirements.
- 4 Equipment costs based on latest rental rates from multiple sources including in-house, estimating programs such as R. S. Means 2018 and National Estimator 2018.
- 5 Estimating procedures and practices are adhered to as established by the American Society of Professional Estimators, Association for Advancement of Cost Engineering and Unified Facility Criteria UFC 3-710-01, UFC 3-710-a and UFC 3-740-05.
- 6 Overtime and night differential pay has been considered or included within this cost estimate.
- 7 The contractor profile is of a small contractor that self performs most of the work while subcontracting MEP.
- 8 Items which may change the estimated construction costs include but are not limited to:
 - a. Additions, deletions or modifications to the project work without repricing
 - b. Unforeseen phasing requirements
 - c. Any specified items which cannot be obtained from at least three (3) alternate sources
- 9 Office furnishings, art, and office equipment are not included in this estimate.
- 10 This project is a tax-exempt project for materials and equipment.
- 11 NOTE that mechanical and electrical trade contract pricing has been volatile and have experienced escalations on a national basis.
- 12 Crude Oil prices have moved from \$64 per barrel to \$75 per barrel in one month.
- 12 Steel spot prices in southern Florida have ranged from \$2.30 to \$4.50 per pond for commercial work.

wood.

511 Congress Street
Portland, Maine 04101
Phone: (207) 828-2618

Project: Monroe County Diesel Plant - Restoration Budget Development
Subject Location: Key West,
Client: Monroe County Board of Commissioners
Prepared By: wood.

Design Excluding Structure Steel Wall Reinforcing

	Building 1	Building 2	Building 3	Building 4	Building 5	Total
Building Square Feet	3,425	3,657	3,720	1,620	170	12,592
Division 1 - General Conditions	see G&A/GC below	see G&A/GC below	see G&A/GC below	see G&A/GC below	see G&A/GC below	see G&A/GC below
Division 2 - Existing Conditions	\$ 45,659	\$ 46,482	\$ 46,706	\$ 39,251	\$ 12,104	\$ 190,202
Division 3 - Concrete	\$ 4,414	\$ 4,649	\$ 5,975	\$ 2,452	\$ 2,769	\$ 20,260
Division 4 - Masonry	\$ 124,552	\$ 122,864	\$ 111,797	\$ 63,299	\$ -	\$ 422,511
Division 5 - Metals	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 6 - Wood & Plastics	\$ -	\$ 124,815	\$ 125,002	\$ 64,454	\$ -	\$ 314,271
Division 7 - Thermal & Moisture Protection	\$ 19,800	\$ 75,942	\$ 88,800	\$ 41,916	\$ 3,514	\$ 229,972
Division 8 - Doors & Windows	\$ 85,643	\$ 57,070	\$ 173,484	\$ 36,267	\$ -	\$ 352,464
Division 9 - Finishes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 10 - Specialties	\$ 441	\$ 441	\$ 441	\$ 441	\$ 441	\$ 2,205
Division 11 - Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 12 - Furnishings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 13 - Special Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 14 - Conveyors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 21 - Sprinkler	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 22 - Plumbing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 23 - Mechanical - HVAC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 26 - Electrical	\$ 27,206	\$ 27,206	\$ 27,206	\$ 27,206	\$ 9,512	\$ 118,338
Division 31 - Earthwork	\$ 2,881	\$ 1,627	\$ 1,954	\$ 363	\$ 403	\$ 7,228
Division 32 - Exterior Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 33 - Utilities	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
Sub Total	\$ 320,596	\$ 471,097	\$ 591,366	\$ 285,650	\$ 38,743	\$ 1,707,451
G&A and GC's	15% \$ 49,532	\$ 72,784	\$ 91,366	\$ 44,133	\$ 5,986	\$ 263,801
Contractor Fee	8% \$ 27,090	\$ 39,808	\$ 49,970	\$ 24,137	\$ 3,274	\$ 144,280
Contingency	20% \$ 65,562	\$ 96,339	\$ 120,934	\$ 58,415	\$ 7,923	\$ 349,174
Sub Total	\$ 462,780	\$ 680,029	\$ 853,637	\$ 412,335	\$ 55,925	\$ 2,464,706
P & P Bond	Y \$ 6,579	\$ 9,440	\$ 11,697	\$ 5,873	\$ 1,500	\$ 35,089
Total Probable Cost to Construct	\$ 469,359	\$ 689,469	\$ 865,335	\$ 418,208	\$ 57,425	\$ 2,499,795
Architectural & Engineering Service	8% \$ 39,661	\$ 58,260	\$ 73,121	\$ 35,339	\$ 4,852	\$ 211,233
Probable Project Cost	\$ 509,020	\$ 747,729	\$ 938,455	\$ 453,546	\$ 62,278	\$ 2,711,028

Cost per Square Foot \$148.62 \$204.47 \$252.27 \$279.97 \$366.34 \$215.30

wood.

Design Including Structure Steel Wall Reinforcing

	Building 1	Building 2	Building 3	Building 4	Building 5	Total
Building Square Feet	3,425	3,657	3,720	1,620	170	12,592
Division 1 - General Conditions	see G&A/GC below	see G&A/GC below	see G&A/GC below	see G&A/GC below	see G&A/GC below	see G&A/GC below
Division 2 - Existing Conditions	\$ 45,659	\$ 46,482	\$ 46,706	\$ 39,251	\$ 12,104	\$ 190,202
Division 3 - Concrete	\$ 4,414	\$ 4,649	\$ 5,975	\$ 2,452	\$ 2,769	\$ 20,260
Division 4 - Masonry	\$ 124,552	\$ 122,864	\$ 111,797	\$ 63,299	\$ -	\$ 422,511
Division 5 - Metals	\$ 187,292	\$ 146,936	\$ 179,998	\$ 122,833	\$ -	\$ 637,059
Division 6 - Wood & Plastics	\$ -	\$ 124,815	\$ 125,002	\$ 64,454	\$ -	\$ 314,271
Division 7 - Thermal & Moisture Protection	\$ 19,800	\$ 75,942	\$ 88,800	\$ 41,916	\$ 3,514	\$ 229,972
Division 8 - Doors & Windows	\$ 85,643	\$ 57,070	\$ 173,484	\$ 36,267	\$ -	\$ 352,464
Division 9 - Finishes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 10 - Specialties	\$ 441	\$ 441	\$ 441	\$ 441	\$ 441	\$ 2,205
Division 11 - Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 12 - Furnishings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 13 - Special Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 14 - Conveyors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 21 - Sprinkler	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 22 - Plumbing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 23 - Mechanical - HVAC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 26 - Electrical	\$ 27,206	\$ 27,206	\$ 27,206	\$ 27,206	\$ 9,512	\$ 118,338
Division 31 - Earthwork	\$ 2,881	\$ 1,627	\$ 1,954	\$ 363	\$ 403	\$ 7,228
Division 32 - Exterior Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Division 33 - Utilities	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
Sub Total	\$ 507,888	\$ 618,033	\$ 771,365	\$ 408,482	\$ 38,743	\$ 2,344,511
G&A and GC's	15% \$ 78,468.70	\$ 95,486.10	\$ 119,176	\$ 63,111	\$ 5,986	\$ 362,227
Contractor Fee	8% \$ 42,916.54	\$ 52,223.79	\$ 65,180	\$ 34,517	\$ 3,274	\$ 198,111
Contingency	20% \$ 103,863.10	\$ 126,387.75	\$ 157,744	\$ 83,535	\$ 7,923	\$ 479,452
Sub Total	\$ 733,136	\$ 892,131	\$ 1,113,465	\$ 589,644	\$ 55,925	\$ 3,384,301
P & P Bond	Y \$ 10,131	\$ 12,198	\$ 14,862	\$ 8,265	\$ 1,500	\$ 46,955
Total Probable Cost to Construct	\$ 743,267	\$ 904,328	\$ 1,128,327	\$ 597,910	\$ 57,425	\$ 3,431,257
Architectural & Engineering Service	8% \$ 62,806	\$ 76,416	\$ 95,344	\$ 50,523	\$ 4,852	\$ 289,941
Probable Project Cost	\$ 806,073	\$ 980,744	\$ 1,223,670	\$ 648,433	\$ 62,278	\$ 3,721,198
Cost per Square Foot	\$235.35	\$268.18	\$328.94	\$400.27	\$366.34	\$295.52

**Diesel Plant Repair Project
Building 1
Monroe County Board of Commissioners**

3,425 sf

Division 2													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 2 - Existing Conditions													
Abatement													
Asbestos Abatement	1	allw	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Lead Paint Abatement	1	allw	-	-	-	-	3,500.00	3,500.00	-	-	-	-	3,500.00
Contaminated Soils	1	allw	-	-	-	-	5,000.00	5,000.00	-	-	-	-	5,000.00
Shoring - Heavy Duty	1	allw	-	-	-	-	15,000.00	15,000.00	-	-	-	-	15,000.00
Remove all electric and mechanical devices - leave Gen Set	3,425	sf	-	-	-	-	3.25	11,131.25	-	-	-	-	11,131.25
Broom Clean and dump	3,425	sf	-	-	-	-	0.30	1,027.50	-	-	-	-	1,027.50
TOTAL EXISTING CONDITIONS			0.00		0.00		45,658.75		0.00		0.00		45,659

Division 3													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 3 - Concrete													
Building Slab Repair (Cut and Square Edges, Structural Gravel, Dowels, Placement)													
Pit Infill Slab Structure	304	sf											
Ready Mix Materials	4	cy	-	-	145.00	543.65	-	-	-	-	-	-	543.65
Admixtures - mid range	4	cy	-	-	3.00	11.25	-	-	-	-	-	-	11.25
Fiber Mesh	4	cy	-	-	5.00	20.00	-	-	-	-	-	-	20.00
Dowels	70	ea	15.00	1,050.00	3.00	210.00	-	-	-	-	-	-	1,260.00
SOG Concrete Placement	304	sf	2.00	608.00	-	-	-	-	-	-	-	-	608.00
Cure	304	sf	0.05	15.20	0.02	6.08	-	-	-	-	-	-	21.28
Caulk Control Joint & Saw Cuts	0	lf	1.00	-	0.44	-	-	-	-	-	-	-	0.00
Pour Prep	1	ls	450.00	450.00	-	-	-	-	-	-	-	-	450.00
Pumps	1	ea	-	-	-	-	-	-	1,500.00	1,500.00	-	-	1,500.00
TOTAL CONCRETE			2,123.20		790.98		0.00		1,500.00		0.00		4,414

Division 4													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 4 - Masonry													
Exterior Masonry Repair													
Exterior Scaffold	5,670	sf	-	-	-	-	4.50	25,515.00	-	-	-	-	25,515.00
Reinforced Plastic Wrap for Dust Control	5,670	sf	-	-	-	-	3.10	17,577.00	-	-	-	-	17,577.00
Water Hookup	1	ls	-	-	-	-	1,500.00	1,500.00	-	-	-	-	1,500.00
daily													
mason1	54			432									
mason2	36			288									
mason3	36			288									
mason4	36			288									
mason5	36			288									
mixer	36												
Rack Truck	74												
Pickup Truck	46												
	1740	15	days	-	-	-	-	1,740.00	26,100.00	-	-	-	26,100.00
Structure Crack Repair			lf	-	-	-	-	41.00	-	-	-	-	0.00
Interior Masonry Repair													
Interior Scaffold	709	sf	-	-	-	-	4.50	3,190.50	-	-	-	-	3,190.50
Interior Elevation 1 Repoint	1,534	sf	-	-	-	-	8.00	12,272.00	-	-	-	-	12,272.00
Interior Elevation 2.0 Repoint	961	sf	-	-	-	-	8.00	7,688.00	-	-	-	-	7,688.00
Interior Elevation 2.1 Repoint	397	sf	-	-	-	-	8.00	3,176.00	-	-	-	-	3,176.00

Interior Elevation 3 Repoint	692	sf	-	-	-	-	8.00	5,536.00	-	-	-	-	5,536.00
Interior Elevation 4 Repoint	1,614	sf	-	-	-	-	8.00	12,912.00	-	-	-	-	12,912.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	3,485.00
Infills	10	ea	-	-	-	-	560.00	5,600.00	-	-	-	-	5,600.00
TOTAL MASONRY								124,551.50	0.00	0.00	0.00	0.00	124,551.50

Division 5													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 5 - Metals													
OPTION 2 ONLY													
Footing Installation													
Excavate Slab Removal & Excavate	15	ea	-	-	-	-	385.00	5,775.00	-	-	-	-	5,775.00
2'x2'x1.5' Reinforced Concrete	15	ea	-	-	-	-	425.00	6,375.00	-	-	-	-	6,375.00
diamond expansion joint	15	ea	-	-	-	-	120.00	1,800.00	-	-	-	-	1,800.00
Steel Frame													
Materials													
Beams	lf	ea											
W14 x 61	30	15	27450										
W12 x 30	15	27	12150										
		42	39600										
	\$2,500	21	tns	-	-	6,500.00	135,135.00	-	-	-	-	-	135,135.00
Primer		21	tns	-	-	250.00	5,197.50	-	-	-	-	-	5,197.50
	\$2.5 per pd Industrial												
	\$4.30 per pd Commercial												
Bolts	168	ea	-	-	12.25	2,058.00	-	-	-	-	-	-	2,058.00
Shim Stock	1	ls	-	-	500.00	500.00	-	-	-	-	-	-	500.00
Grout	15	sacks	-	-	30.00	450.00	-	-	-	-	-	-	450.00
Welding Gas & Sundry	1	ls	-	-	600.00	600.00	-	-	-	-	-	-	600.00
Labor													
	hr	daily											
Labor foreman	\$65.55	\$524.40											
Steel Erector 1	\$55.00	\$440.00											
Steel Erector 2	\$55.00	\$440.00											
Steel Erector 3	\$55.00	\$440.00											
Pick up truck		\$36.00											
Rack truck		\$101.00											
Hoist & Lifts		\$673.00											
Perdiem		\$1,250.00											
Overhead & Profit		\$875.95											
Daily Burn Rate		\$4,780.35											
	Steel Contractor	5	day	\$4,780.35	23,901.76	-	-	-	-	-	-	-	23,901.76
Crane Service	5	day	-	-	-	-	1,100.00	5,500.00	-	-	-	-	5,500.00
TOTAL METALS								143,940.50	19,450.00	0.00	0.00	0.00	187,292

Division 6													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 6 - Wood & Plastics													
Building Roof Framing rebuild on existing steel													
Beam Pads	3,863	sf	-	-	-	-	-	-	-	-	-	-	0.00
Roof Trusses		ea	-	-	-	-	-	-	-	-	-	-	0.00
Truss Spacers	2x4	lf	-	-	-	-	-	-	-	-	-	-	0.00
Roof Strapping	2x4	3f	-	-	-	-	-	-	-	-	-	-	0.00
Roof Sheathing	5/8" PLY	sheets	-	-	-	-	-	-	-	-	-	-	0.00
Ice & Water Shield		rolls	-	-	-	-	-	-	-	-	-	-	0.00
Roof Soffit		rf	-	-	-	-	-	-	-	-	-	-	0.00
Endwall Framing & Sheathing		sf	-	-	-	-	-	-	-	-	-	-	0.00
Timber Frame Components		ls	-	-	-	-	-	-	-	-	-	-	0.00
Hardware, hangers & fasteners		ls	-	-	-	-	-	-	-	-	-	-	0.00

Carpenter Crew	6 men 2 weeks	0			-	-	-	-	-	-	-	-	-	0.00
TOTAL WOOD & PLASTICS					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0

Division 7														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 7 - Thermal & Moisture Protection														
Exterior Stuccos Finish	0	sf	-	-	-	-	-	-	-	-	-	-	-	0.00
Metal Roofing	0	sf	-	-	-	-	-	-	-	-	-	-	-	0.00
Metal Gutter	0	lf	-	-	-	-	-	-	-	-	-	-	-	0.00
Joint Sealants	0	ls	-	-	-	-	-	-	-	-	-	-	-	0.00
Metal Panel Repair	1,100	ls	-	-	-	-	18.00	19,800.00	-	-	-	-	-	19,800.00
TOTAL THERMO MOISTURE				0.00	0.00	0.00	0.00	19,800.00	0.00	0.00	0.00	0.00	0.00	19,800

Division 8														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 8 - Doors & Windows														
Interior Doors														
None	0	ea	-	-	-	-	-	-	-	-	-	-	-	0.00
Exterior Doors														
Door & Hardware	1	ea	455.00	455.00	1,121.00	1,121.00	-	-	-	-	-	-	-	1,576.00
Windows and Glazing														
Window Opening Rebuild	16	ea	-	-	-	-	500.00	8,000.00	-	-	-	-	-	8,000.00
Materials														
Windows														
1	A Type	21	sf	-	-	44.88	942.51	-	-	-	-	-	-	942.51
2	A Type	21	sf	-	-	44.88	942.51	-	-	-	-	-	-	942.51
3	A Type	21	sf	-	-	44.88	942.51	-	-	-	-	-	-	942.51
4	A Type	21	sf	-	-	44.88	942.51	-	-	-	-	-	-	942.51
5	A Type	21	sf	-	-	44.88	942.51	-	-	-	-	-	-	942.51
1	B Type	62	sf	-	-	44.88	2,782.63	-	-	-	-	-	-	2,782.63
2	B Type	62	sf	-	-	44.88	2,782.63	-	-	-	-	-	-	2,782.63
3	B Type	62	sf	-	-	44.88	2,782.63	-	-	-	-	-	-	2,782.63
4	B Type	62	sf	-	-	44.88	2,782.63	-	-	-	-	-	-	2,782.63
5	B Type	62	sf	-	-	44.88	2,782.63	-	-	-	-	-	-	2,782.63
1	C Type	100	sf	-	-	44.88	4,488.12	-	-	-	-	-	-	4,488.12
2	C Type	100	sf	-	-	44.88	4,488.12	-	-	-	-	-	-	4,488.12
3	C Type	100	sf	-	-	44.88	4,488.12	-	-	-	-	-	-	4,488.12
4	C Type	100	sf	-	-	44.88	4,488.12	-	-	-	-	-	-	4,488.12
5	C Type	100	sf	-	-	44.88	4,488.12	-	-	-	-	-	-	4,488.12
	Tinting	915	sf	-	-	2.00	1,830.00	-	-	-	-	-	-	1,830.00
Window Bucks														
	if													
A Type	18	5	ea	-	-	36.66	183.30	-	-	-	-	-	-	183.30
B Type	31	6	ea	-	-	62.99	377.95	-	-	-	-	-	-	377.95
C Type	40	5	ea	-	-	80.00	400.00	-	-	-	-	-	-	400.00
Fasteners 1/4" x 3 1/4" Concrete Screw Slot Hex Washer Hd Blue Polymer 4" on Ctr														
A Type	275	ea	-	-	0.72	197.97	-	-	-	-	-	-	-	197.97
B Type	567	ea	-	-	0.72	408.19	-	-	-	-	-	-	-	408.19
C Type	600	ea	-	-	0.72	432.00	-	-	-	-	-	-	-	432.00
Caulking														
	1	ls	-	-	300.00	300.00	-	-	-	-	-	-	-	300.00
Window Security Screens														
	915	sf	-	-	-	-	20.00	18,300.00	-	-	-	-	-	18,300.00
Installation Crew														
	hourly	daily												
Foreman	50.00	\$400.00												0.00
journeyman 1	38.00	\$304.00												0.00
journeyman 2	38.00	\$304.00												0.00
journeyman 3	38.00	\$304.00												0.00

Pick up truck	\$35.00					-	-	-	-	-	-	-	-	0.00
Rack Truck	\$125.00					-	-	-	-	-	-	-	-	0.00
Van with tools and parts	\$185.00					-	-	-	-	-	-	-	-	0.00
Per diem	\$1,300.00					-	-	-	-	-	-	-	-	0.00
Daily Sub Total	\$2,957.00	1	Days	\$2,957.00	2,957.00	-	-	-	-	-	-	-	-	2,957.00
	sf													
Barn Door 1	95	1	ea	1,140.00	1,140.00	3,230.00	3,230.00	-	-	-	-	-	-	4,370.00
Barn Door 2	114	1	ea	1,368.00	1,368.00	3,876.00	3,876.00	-	-	-	-	-	-	5,244.00
TOTAL DOORS & WINDOWS					5,920.00		53,422.71		26,300.00		0.00		0.00	85,643

Division 9
Division 10

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 10 - Specialties													
Interior Signage	2	ea	12.00	24.00	150.00	300.00	-	-	-	-	-	-	324.00
Fire Extinguisher on Brackets	1	ea	50.00	50.00	67.00	67.00	-	-	-	-	-	-	117.00
TOTAL SPECIALTIES				74.00		367.00		0.00		0.00		0.00	441

Division 11
Division 12
Division 13
Division 14
Division 21
Division 22
Division 23
Division 26

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 26 - Electrical													
Construction Temp Power	1	ls	-	-	-	-	2,300.00	2,300.00	-	-	-	-	2,300.00
Construction illumination	3,424	sf	-	-	-	-	-	-	-	-	0.50	1,712.00	1,712.00
													0.00
Panel 480Y,270V, 42 circuits	1	ea	4,065.00	4,065.00	1,575.00	1,575.00	-	-	-	-	-	-	5,640.00
Dry Transformer	1	ea	220.00	220.00	340.00	340.00	-	-	-	-	-	-	560.00
2'x4' Fixture	4	ea	74.00	296.00	153.00	612.00	-	-	-	-	-	-	908.00
Emergency ballast, factory installed	2	ea	0.00	0.00	157.00	314.00	-	-	-	-	-	-	314.00
Fixture wiring whip	4	ea	12.40	49.60	15.00	60.00	-	-	-	-	-	-	109.60
Exit light, LED, single face w/battery	2	ea	84.00	168.00	126.00	252.00	-	-	-	-	-	-	420.00
Emergency Light with Battery Backup	4	ea	110.00	440.00	162.00	648.00	-	-	-	-	-	-	1,088.00
Toggle switch, single pole with occupancy sensor	1	ea	14.50	14.50	8.40	8.40	-	-	-	-	-	-	22.90
Receptacle, GFI, 20A	3	ea	14.50	43.50	35.50	106.50	-	-	-	-	-	-	150.00
Electrical metallic tubing, 3/4"	117	lf	3.80	444.60	1.91	223.47	-	-	-	-	-	-	668.07
Wire, #12 solid	2.81	clf	34.00	95.54	15.90	44.68	-	-	-	-	-	-	140.22
Wall plate, 1-gang	4	ea	5.56	22.24	1.34	5.36	-	-	-	-	-	-	27.60
Manual motor starter, 1-pole	3	ea	58.00	174.00	62.50	187.50	-	-	-	-	-	-	361.50
Wire, #1/0	0.6	clf	111.00	66.60	254.00	152.40	-	-	-	-	-	-	219.00
Wire, #6	0.15	clf	57.00	8.55	62.00	9.30	-	-	-	-	-	-	17.85
Wire, #2	2.2	clf	82.00	180.40	155.00	341.00	-	-	-	-	-	-	521.40
Wire, #8	0.55	clf	46.50	25.58	41.50	22.83	-	-	-	-	-	-	48.40
Wire, #4	0.15	clf	70.00	10.50	98.50	14.78	-	-	-	-	-	-	25.28
Grounding	1	ls	-	-	-	-	8,200.00	8,200.00	-	-	-	-	8,200.00
				\$6,324.61		\$4,917.21		\$10,500.00		\$0.00		\$1,712.00	\$23,453.81
Electrical Contractor Overhead	8%			505.97		393.38		840.00				136.96	1,876.31
Profit	8%			505.97		393.38		840.00				136.96	1,876.31
TOTAL ELECTRICAL				7,336.54		5,703.96		12,180.00		0.00		1,985.92	27,206.42

Division 31, 32 and 33

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 31 - Earthwork													

Building interior pit structural fill	85	cy	10.00	847.41	24.00	2,033.78	-	-	-	-	-	-	2,881.19
Sub Total Earthwork			-	847.41	-	2,033.78	-	-	-	-	-	-	2,881.19
Division 32 - Exterior Improvements													
Sidewalks	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Parking	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Landscaping	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sub Total Exterior Improvements			-	-	-	-	-	-	-	-	-	-	-
Division 33 - Utilities													
Water	None	1	ls	-	-	-	-	-	-	-	-	-	0.00
Sanitary	None	1	ls	-	-	-	-	-	-	-	-	-	0.00
Electric	Hook up to exist	1	ls	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Sub Total Utilities			-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
TOTAL EARTHWORK, Exterior Finishes & Utilities				847.41		2,033.78		10,000.00		0.00		0.00	12,881.19

Labor	\$ 40,203
Material	\$ 206,259
Subcontract	\$ 257,940
Equipment	\$ 1,500
Other	\$ 1,986
Total Cost	\$ 507,888
	\$ 507,888

**Diesel Plant Repair Project
Building 2
Monroe County Board of Commissioners**

3,657 sf

Division 2													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 2 - Existing Conditions													
Abatement													
Asbestos Abatement	1	allw	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Lead Paint Abatement	1	allw	-	-	-	-	3,500.00	3,500.00	-	-	-	-	3,500.00
Contaminated Soils	1	allw	-	-	-	-	5,000.00	5,000.00	-	-	-	-	5,000.00
Shoring - Heavy Duty	1	allw	-	-	-	-	15,000.00	15,000.00	-	-	-	-	15,000.00
Remove all electric and mechanical devices - leave Gen Set	3,657	sf	-	-	-	-	3.25	11,885.25	-	-	-	-	11,885.25
Broom Clean and dump	3,657	sf	-	-	-	-	0.30	1,097.10	-	-	-	-	1,097.10
TOTAL EXISTING CONDITIONS				0.00		0.00		46,482.35		0.00		0.00	46,482

Division 3													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 3 - Concrete													
Building Slab Repair (Cut and Square Edges, Structural Gravel, Dowels, Placement)													
Pit Infill Slab Structure	250	sf											
Ready Mix Materials	3	cy	-	-	145.00	447.08	-	-	-	-	-	-	447.08
Admixtures - mid range	3	cy	-	-	3.00	9.25	-	-	-	-	-	-	9.25
Fiber Mesh	3	cy	-	-	5.00	15.42	-	-	-	-	-	-	15.42
Dowels	95	ea	15.00	1,425.00	3.00	285.00	-	-	-	-	-	-	1,710.00
SOG Concrete Placement	250	sf	2.00	500.00	-	-	-	-	-	-	-	-	500.00
Cure	250	sf	0.05	12.50	0.02	5.00	-	-	-	-	-	-	17.50
Caulk Control Joint & Saw Cuts	0	lf	1.00	-	0.44	-	-	-	-	-	-	-	0.00
Pour Prep	1	ls	450.00	450.00	-	-	-	-	-	-	-	-	450.00
Pumps	1	ea	-	-	-	-	-	-	1,500.00	1,500.00	-	-	1,500.00
TOTAL CONCRETE				2,387.50		761.75		0.00		1,500.00		0.00	4,649

Division 4													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 4 - Masonry													
Exterior Masonry Repair													
Exterior Scaffold	3,600	sf	-	-	-	-	4.50	16,200.00	-	-	-	-	16,200.00
Exterior Scaffold Reinforced Plastic Wrap for Dust Control	3,600	sf	-	-	-	-	3.10	11,160.00	-	-	-	-	11,160.00
Exterior Elevation A Repoint	1,107	sf	-	-	-	-	8.00	8,856.00	-	-	-	-	8,856.00
Exterior Elevation B Repoint	1,137	sf	-	-	-	-	8.00	9,096.00	-	-	-	-	9,096.00
Exterior Elevation C Repoint	1,129	sf	-	-	-	-	8.00	9,032.00	-	-	-	-	9,032.00
Exterior Elevation D Repoint	762	sf	-	-	-	-	8.00	6,096.00	-	-	-	-	6,096.00
Grout Masonry Door & Window Jambs	14	ea	-	-	-	-	41.00	574.00	-	-	-	-	574.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	3,485.00
Interior Masonry Repair													
Interior Scaffold	3,600	sf	-	-	-	-	4.50	16,200.00	-	-	-	-	16,200.00
Interior Elevation 1 Repoint	1,107	sf	-	-	-	-	8.00	8,856.00	-	-	-	-	8,856.00
Interior Elevation 2 Repoint	1,137	sf	-	-	-	-	8.00	9,096.00	-	-	-	-	9,096.00
Interior Elevation 3 Repoint	1,129	sf	-	-	-	-	8.00	9,032.00	-	-	-	-	9,032.00
Interior Elevation 4 Repoint	762	sf	-	-	-	-	8.00	6,096.00	-	-	-	-	6,096.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	3,485.00
Infills	10	ea	-	-	-	-	560.00	5,600.00	-	-	-	-	5,600.00
TOTAL MASONRY				0.00		0.00		122,864.00		0.00		0.00	122,864.00

Division 5													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 5 - Metals													
OPTION 2 ONLY													
Excavate Slab Removal & Excavate	11	ea	-	-	-	-	385.00	4,235.00	-	-	-	-	4,235.00
2x2x1.5' Reinforced Concrete	11	ea	-	-	-	-	425.00	4,675.00	-	-	-	-	4,675.00
Diamond expansion joint	11	ea	-	-	-	-	120.00	1,320.00	-	-	-	-	1,320.00
Materials													
Beams	lf	ea											
W14 x 61	30	11	20130										
W12 x 30	15	27	12150										
		38	32280										
	\$2,500	\$95,000	17	tns	-	-	6,500.00	110,155.50	-	-	-	-	110,155.50
Primer			17	tns	-	-	250.00	4,236.75	-	-	-	-	4,236.75
	\$2.5 per pd Industrial												
	\$4.30 per pd Commercial												
Bolts	152	ea	-	-	12.25	1,862.00	-	-	-	-	-	-	1,862.00
Shim Stock	1	ls	-	-	500.00	500.00	-	-	-	-	-	-	500.00
Grout	6	sacks	-	-	30.00	180.00	-	-	-	-	-	-	180.00
Welding Gas & Sundry	1	ls	-	-	600.00	600.00	-	-	-	-	-	-	600.00
Labor													
	hr	daily											
Labor foreman	\$65.55	\$524.40											
Steel Erector 1	\$55.00	\$440.00											
Steel Erector 2	\$55.00	\$440.00											
Steel Erector 3	\$55.00	\$440.00											
Pick up truck		\$36.00											
Rack truck		\$101.00											
Hoist & Lifts		\$673.00											
Perdiem		\$1,250.00											
Overhead & Profit		\$875.95											
Daily Burn Rate		\$4,780.35											
Steel Contractor	5	day	\$4,780.35	23,901.76	-	-	-	-	-	-	-	-	23,901.76
Crane Service	5	day	-	-	-	-	1,100.00	5,500.00	-	-	-	-	5,500.00
TOTAL METALS				23,901.76		117,534.25		5,500.00		0.00		0.00	146,936

Division 6													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 6 - Wood & Plastics													
Building Roof Framing													
<i>rebuild on existing steel</i>													
Replace in Kind Beam Pads	40	ea	-	-	24.00	960.00	-	-	-	-	-	-	960.00
Roof Joist	2x10x12	144	ea	-	24.00	3,456.00	-	-	-	-	-	-	3,456.00
Truss Spacers	2x4	100	lf	-	0.63	63.00	-	-	-	-	-	-	63.00
Roof Strapping	2x4	300	3f	-	0.63	189.00	-	-	-	-	-	-	189.00
Roof Sheathing	5/8" PLY	117	sheets	-	30.00	3,524.06	-	-	-	-	-	-	3,524.06
Roof Soffit		250	rf	-	65.00	16,250.00	-	-	-	-	-	-	16,250.00
Parapet Endwell Framing & Sheathing	eframe parapet	240	sf	-	45.00	10,800.00	-	-	-	-	-	-	10,800.00
<i>Crickets</i>	Roof Rafters	2x6x12	104	ea	-	24.00	2,496.00	-	-	-	-	-	2,496.00
	Truss Spacers	2x4	85	lf	-	0.63	53.55	-	-	-	-	-	53.55
	Roof Strapping	2x4	125	lf	-	0.63	78.75	-	-	-	-	-	78.75
	Roof Sheathing	5/8" PLY	39	sheets	-	30.00	1,173.51	-	-	-	-	-	1,173.51
	Ice & Water Shield	200 sf per roll	19	rolls	-	120.00	2,255.40	-	-	-	-	-	2,255.40
	Roof Soffit		140	rf	-	65.00	9,100.00	-	-	-	-	-	9,100.00
	Parapit Endwall Framing & Sheathing	eframe perrapit	552	sf	-	45.00	24,840.00	-	-	-	-	-	24,840.00
Timber Frame Componets	1	ls	-	-	10,000.00	10,000.00	-	-	-	-	-	-	10,000.00
Hardware, hangers & fasteners	1	ls	-	-	15,000.00	15,000.00	-	-	-	-	-	-	15,000.00
Carpenter Crew	6 men 2 weeks	480	man hrs	53.20	25,536.00	-	-	-	-	-	-	-	25,536.00

None Required	1	ea	-	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL MECHANICAL					0.00		0.00		0.00		0.00		0.00	0

Division 22														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 22 - Plumbing														
See Demolition in Division 2														
Plumbing Contractor Overhead	8%			-		-		-		-		-		-
Profit	8%			-		-		-		-		-		-
TOTAL PLUMBING				0.00		0.00		0.00		0.00		0.00		0.00

Division 23														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 23 - Mechanical - HVAC														
See Demolition in Division 2	1	ls	-	-	-	-	-	-	-	-	-	-	-	0.00
HVAC Contractor Overhead	8%			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Profit	8%			-		-		-		-		-		-
TOTAL HVAC				0.00		0.00		0.00		0.00		0.00		0.00

Division 26														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 26 - Electrical														
Construction Temp Power	1	ls	-	-	-	-	2,300.00	2,300.00	-	-	-	-	-	2,300.00
Construction illumination	3,424	sf	-	-	-	-	-	-	-	-	0.50	1,712.00	-	1,712.00
Panel 480Y,270V, 42 circuits	1	ea	4,065.00	4,065.00	1,575.00	1,575.00	-	-	-	-	-	-	-	5,640.00
Dry Transformer	1	ea	220.00	220.00	340.00	340.00	-	-	-	-	-	-	-	560.00
2'x4' Fixture	4	ea	74.00	296.00	153.00	612.00	-	-	-	-	-	-	-	908.00
Emergency ballast, factory installed	2	ea	0.00	0.00	157.00	314.00	-	-	-	-	-	-	-	314.00
Fixture wiring whip	4	ea	12.40	49.60	15.00	60.00	-	-	-	-	-	-	-	109.60
Exit light, LED, single face w/battery	2	ea	84.00	168.00	126.00	252.00	-	-	-	-	-	-	-	420.00
Emergency Light with Battery Backup	4	ea	110.00	440.00	162.00	648.00	-	-	-	-	-	-	-	1,088.00
Toggle switch, single pole with occupancy sensor	1	ea	14.50	14.50	8.40	8.40	-	-	-	-	-	-	-	22.90
Receptacle, GFI, 20A	3	ea	14.50	43.50	35.50	106.50	-	-	-	-	-	-	-	150.00
Electrical metallic tubing, 3/4"	117	lf	3.80	444.60	1.91	223.47	-	-	-	-	-	-	-	668.07
Wire, #12 solid	2,81	clf	34.00	95.54	15.90	44.68	-	-	-	-	-	-	-	140.22
Wall plate, 1-gang	4	ea	5.56	22.24	1.34	5.36	-	-	-	-	-	-	-	27.60
Manual motor starter, 1-pole	3	ea	58.00	174.00	62.50	187.50	-	-	-	-	-	-	-	361.50
Wire, #1/0	0.6	clf	111.00	66.60	254.00	152.40	-	-	-	-	-	-	-	219.00
Wire, #6	0.15	clf	57.00	8.55	62.00	9.30	-	-	-	-	-	-	-	17.85
Wire, #2	2.2	clf	82.00	180.40	155.00	341.00	-	-	-	-	-	-	-	521.40
Wire, #8	0.55	clf	46.50	25.58	41.50	22.83	-	-	-	-	-	-	-	48.40
Wire, #4	0.15	clf	70.00	10.50	98.50	14.78	-	-	-	-	-	-	-	25.28
Grounding	1	ls	-	-	-	-	8,200.00	8,200.00	-	-	-	-	-	8,200.00
Electrical Contractor Overhead	8%			\$6,324.61		\$4,917.21		\$10,500.00		\$0.00		\$1,712.00		\$23,453.81
Profit	8%			505.97		393.38		840.00		-		136.96		1,876.31
TOTAL ELECTRICAL				7,336.54		5,703.96		12,180.00		0.00		1,985.92		27,206.42

Division 31, 32 and 33														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 31 - Earthwork														
Building interior pit structural fill	48	cy	10.00	478.52	24.00	1,148.44	-	-	-	-	-	-	-	1,626.96
Sub Total Earthwork				478.52		1,148.44		-		-		-		1,626.96

Division 32 - Exterior Improvements												
Sidewalks	0	If	-	-	-	-	-	-	-	-	-	0.00
Parking	0	ea	-	-	-	-	-	-	-	-	-	0.00
Landscaping	0	ls	-	-	-	-	-	-	-	-	-	0.00
Sub Total Exterior Improvements												0.00
Division 33 - Utilities												
Water	None	1	ls	-	-	-	-	-	-	-	-	0.00
Sanitary	None	1	ls	-	-	-	-	-	-	-	-	0.00
Electric	Hook up to exis	1	ls	-	-	-	-	10,000.00	10,000.00	-	-	10,000.00
Sub Total Utilities									10,000.00			10,000.00
TOTAL EARTHWORK, Exterior Finishes & Utilities				478.52	1,148.44	10,000.00	0.00	0.00	11,626.96			

Labor	\$	76,791
Material	\$	248,307
Subcontract	\$	289,448
Equipment	\$	1,500
Other	\$	1,986
Total Cost	\$	618,033
	\$	618,033

**Diesel Plant Repair Project
Building 3
Monroe County Board of Commissioners**

3,720 sf

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 2													
Division 2 - Existing Conditions													
Abatement													
Asbestos Abatement	1	allw	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Lead Paint Abatement	1	allw	-	-	-	-	3,500.00	3,500.00	-	-	-	-	3,500.00
Contaminated Soils	1	allw	-	-	-	-	5,000.00	5,000.00	-	-	-	-	5,000.00
Shoring - Heavy Duty	1	allw	-	-	-	-	15,000.00	15,000.00	-	-	-	-	15,000.00
Remove all electric and mechanical devices - leave Gen Set	3,720	sf	-	-	-	-	3.25	12,090.00	-	-	-	-	12,090.00
Broom Clean and dump	3,720	sf	-	-	-	-	0.30	1,116.00	-	-	-	-	1,116.00
TOTAL EXISTING CONDITIONS				0.00		0.00		46,706.00		0.00		0.00	46,706

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 3													
Division 3 - Concrete													
Building Slab Repair (Cut and Square Edges, Structural Gravel, Dowels, Placement)													
Pit Infill Slab Structure	344	sf											
Ready Mix Materials	4	cy	-	-	145.00	615.19	-	-	-	-	-	-	615.19
Admixtures - mid range	4	cy	-	-	3.00	12.73	-	-	-	-	-	-	12.73
Fiber Mesh	4	cy	-	-	5.00	21.21	-	-	-	-	-	-	21.21
Dowels	148	ea	15.00	2,220.00	3.00	444.00	-	-	-	-	-	-	2,664.00
SOG Concrete Placement	344	sf	2.00	688.00	-	-	-	-	-	-	-	-	688.00
Cure	344	sf	0.05	17.20	0.02	6.88	-	-	-	-	-	-	24.08
Caulk Control Joint & Saw Cuts	0	lf	1.00	-	0.44	-	-	-	-	-	-	-	0.00
Pour Prep	1	ls	450.00	450.00	-	-	-	-	-	-	-	-	450.00
Pumps	1	ea	-	-	-	-	-	-	1,500.00	1,500.00	-	-	1,500.00
TOTAL CONCRETE				3,375.20		1,100.01		0.00		1,500.00		0.00	5,975

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 4													
Division 4 - Masonry													
Exterior Masonry Repair													
Exterior Scaffold	4,530	sf	-	-	-	-	4.50	20,385.00	-	-	-	-	20,385.00
Exterior Scaffold Reinforced Plastic Wrap for Dust Control	4,530	sf	-	-	-	-	3.10	14,043.00	-	-	-	-	14,043.00
Exterior Elevation A Repoint	396	sf	-	-	-	-	4.50	1,782.00	-	-	-	-	1,782.00
Exterior Elevation B Repoint	1,142	sf	-	-	-	-	4.50	5,139.00	-	-	-	-	5,139.00
Exterior Elevation C Repoint	1,192	sf	-	-	-	-	4.50	5,364.00	-	-	-	-	5,364.00
Exterior Elevation D Repoint	1,112	sf	-	-	-	-	4.50	5,004.00	-	-	-	-	5,004.00
Grout Masonry Door & Window Jamb	14	ea	-	-	-	-	41.00	574.00	-	-	-	-	574.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	3,485.00
Interior Masonry Repair													
Interior Scaffold	3,600	sf	-	-	-	-	4.50	16,200.00	-	-	-	-	16,200.00
Interior Elevation 1 Repoint	396	sf	-	-	-	-	8.00	3,168.00	-	-	-	-	3,168.00
Interior Elevation 2 Repoint	1,142	sf	-	-	-	-	8.00	9,136.00	-	-	-	-	9,136.00
Interior Elevation 3 Repoint	1,192	sf	-	-	-	-	8.00	9,536.00	-	-	-	-	9,536.00
Interior Elevation 4 Repoint	1,112	sf	-	-	-	-	8.00	8,896.00	-	-	-	-	8,896.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	3,485.00
Infills	10	ea	-	-	-	-	560.00	5,600.00	-	-	-	-	5,600.00
TOTAL MASONRY				0.00		0.00		111,797.00		0.00		0.00	111,797.00

ITEM DESCRIPTION	Quantity	Labor Cost	Material Cost	Subcontractor	Equipment	Other	TOTAL
Division 5							

ITEM DESCRIPTION	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
Division 5 - Metals												
OPTION 2 ONLY												
Excavate Slab Removal & Excavate	30	ea	-	-	-	-	385.00	11,550.00	-	-	-	11,550.00
2'x2'x1.5' Reinforced Concrete	30	ea	-	-	-	-	425.00	12,750.00	-	-	-	12,750.00
Diamond expansion joint	30	ea	-	-	-	-	120.00	3,600.00	-	-	-	3,600.00
Materials												
Beams	lf	ea										
W14 x 61	30	13	23790									
W12 x 30	15	39	17550									
		52	41340									
	\$2,500	\$130,000	22	tns	-	-	6,500.00	141,072.75	-	-	-	141,072.75
Primer			22	tns	-	-	250.00	5,425.88	-	-	-	5,425.88
	\$2.5 per pd Industrial											
	\$4.30 per pd Commercial											
Bolts	208	ea	-	-	12.25	2,548.00	-	-	-	-	-	2,548.00
Shim Stock	1	ls	-	-	500.00	500.00	-	-	-	-	-	500.00
Grout	15	sacks	-	-	30.00	450.00	-	-	-	-	-	450.00
Welding Gas & Sundry	1	ls	-	-	600.00	600.00	-	-	-	-	-	600.00
Labor												
	hr	daily										
Labor foreman	\$65.55	\$524.40										
Steel Erector 1	\$55.00	\$440.00										
Steel Erector 2	\$55.00	\$440.00										
Steel Erector 3	\$55.00	\$440.00										
Pick up truck		\$36.00										
Rack truck		\$101.00										
Hoist & Lifts		\$673.00										
Perdiem		\$1,250.00										
Overhead & Profit		\$875.95										
Daily Burn Rate		\$4,780.35										
Steel Contractor	5	day	\$4,780.35	23,901.76	-	-	-	-	-	-	-	23,901.76
Crane Service	5	day	-	-	-	-	1,100.00	5,500.00	-	-	-	5,500.00
TOTAL METALS				23,901.76	150,596.63	5,500.00	0.00	0.00	0.00	0.00	179,998	

Division 6													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 6 - Wood & Plastics													
Building Roof Framing rebuild on existing steel													
Replace in Kind Beam Pads	44	ea	-	-	24.00	1,056.00	-	-	-	-	-	-	1,056.00
Roof Joist	2x10x12	144	ea	-	-	24.00	3,456.00	-	-	-	-	-	3,456.00
Truss Spacers	2x4	100	lf	-	-	0.63	63.00	-	-	-	-	-	63.00
Roof Strapping	2x4	300	3f	-	-	0.63	189.00	-	-	-	-	-	189.00
Roof Sheathing	5/8" PLY	121	sheets	-	-	30.00	3,618.75	-	-	-	-	-	3,618.75
Roof Soffit		250	rf	-	-	65.00	16,250.00	-	-	-	-	-	16,250.00
Parapit Endwall Framing & Shea	reframe perrapits	240	sf	-	-	45.00	10,800.00	-	-	-	-	-	10,800.00
Crickets													
Roof Rafters	2x6x12	104	ea	-	-	24.00	2,496.00	-	-	-	-	-	2,496.00
Truss Spacers	2x4	85	lf	-	-	0.63	53.55	-	-	-	-	-	53.55
Roof Strapping	2x4	125	lf	-	-	0.63	78.75	-	-	-	-	-	78.75
Roof Sheathing	5/8" PLY	40	sheets	-	-	30.00	1,205.04	-	-	-	-	-	1,205.04
Ice & Water Shield	200 sf per roll	19	rolls	-	-	120.00	2,316.00	-	-	-	-	-	2,316.00
Roof Soffit		140	rf	-	-	65.00	9,100.00	-	-	-	-	-	9,100.00
Parapit Endwall Framing & Shea	reframe perrapits	552	sf	-	-	45.00	24,840.00	-	-	-	-	-	24,840.00
Timber Frame Componets		1	ls	-	-	10,000.00	10,000.00	-	-	-	-	-	10,000.00
Hardware, hangers & fasteners		1	ls	-	-	15,000.00	15,000.00	-	-	-	-	-	15,000.00
Carpenter Crew	6 men 2 weeks	480	man hrs	53.20	25,536.00	-	-	-	-	-	-	-	25,536.00

TOTAL WOOD & PLASTICS			25,536.00		99,466.09		0.00		0.00		0.00		125,002
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Division 7													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 7 - Thermal & Moisture Protection													
Exterior Stuccos Finish	2,208	sf	-	-	-	-	5.00	11,040.00	-	-	-	-	11,040.00
Metal Roofing	3,860	sf	-	-	-	-	18.00	69,480.00	-	-	-	-	69,480.00
Galv Metal Gutter	480	lf	-	-	-	-	16.00	7,680.00	-	-	-	-	7,680.00
Joint Sealants	1	ls	-	-	-	-	600.00	600.00	-	-	-	-	600.00
TOTAL THERMO MOISTURE				0.00		0.00		88,800.00		0.00		0.00	88,800

Division 8													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 8 - Doors & Windows													
Interior Doors													
None	0	ea	-	-	-	-	-	-	-	-	-	-	0.00
Exterior Doors													
Door & Hardware	1	ea	455.00	455.00	1,121.00	1,121.00	-	-	-	-	-	-	1,576.00
Windows and Glazing													
Window Opening Rebuild													
Materials	291	55	-	-	-	-	500.00	145,455.84	-	-	-	-	145,455.84
Windows													
1 A Type	18	sf	-	-	44.88	807.86	-	-	-	-	-	-	807.86
1 B Type	25	sf	-	-	44.88	1,122.03	-	-	-	-	-	-	1,122.03
journeyman 2			38.00	\$304.00									0.00
journeyman 3			38.00	\$304.00									0.00
Pick up truck				\$35.00									0.00
Rack Truck				\$125.00									0.00
Van with tools and parts				\$185.00									0.00
Per diem				\$1,300.00									0.00
Daily Sub Total				\$2,957.00									8,871.00
sf													
Barn Door 1	77	1 ea	924.00	924.00	2,618.00	2,618.00	-	-	-	-	-	-	3,542.00
Barn Door 2	114	1 ea	1,368.00	1,368.00	3,876.00	3,876.00	-	-	-	-	-	-	5,244.00
Hard Ceilings													
None	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Fire Extinguisher on Brackets													
Not Used	1	ea	50.00	50.00	67.00	67.00	-	-	-	-	-	-	117.00
1 ls													0.00
TOTAL SPECIAL CONSTRUCTION				0.00		0.00		0.00		0.00		0.00	0

Division 21													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 21 - Fire Protection													
None Required	1	ea	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL MECHANICAL				0.00		0.00		0.00		0.00		0.00	0

Division 22													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 22 - Plumbing													
See Demolition in Division 2		Assembly											
Plumbing Contractor Overhead		8%		-		-		-		-		-	-
Profit		8%		-		-		-		-		-	-
TOTAL PLUMBING				0.00		0.00		0.00		0.00		0.00	0.00

Division 23													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 23 - Mechanical - HVAC													
See Demolition in Division 2	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
HVAC Contractor Overhead	8%			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Profit	8%			-		-		-		-		-	-
TOTAL HVAC				0.00		0.00		0.00		0.00		0.00	0.00

Division 26													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 26 - Electrical													
Construction Temp Power	1	ls	-	-	-	-	2,300.00	2,300.00	-	-	-	-	2,300.00
Construction illumination	3,424	sf	-	-	-	-	-	-	-	-	0.50	1,712.00	1,712.00
Panel 480Y,270V, 42 circuits	1	ea	4,065.00	4,065.00	1,575.00	1,575.00	-	-	-	-	-	-	5,640.00
Dry Transformer	1	ea	220.00	220.00	340.00	340.00	-	-	-	-	-	-	560.00
2'x4' Fixture	4	ea	74.00	296.00	153.00	612.00	-	-	-	-	-	-	908.00
Emergency ballast, factory installed	2	ea	0.00	0.00	157.00	314.00	-	-	-	-	-	-	314.00
Fixture wiring whip	4	ea	12.40	49.60	15.00	60.00	-	-	-	-	-	-	109.60
Exit light, LED, single face w/battery	2	ea	84.00	168.00	126.00	252.00	-	-	-	-	-	-	420.00
Emergency Light with Battery Backup	4	ea	110.00	440.00	162.00	648.00	-	-	-	-	-	-	1,088.00
Toggle switch, single pole with occupancy sensor	1	ea	14.50	14.50	8.40	8.40	-	-	-	-	-	-	22.90
Receptacle, GFI, 20A	3	ea	14.50	43.50	35.50	106.50	-	-	-	-	-	-	150.00
Electrical metallic tubing, 3/4"	117	lf	3.80	444.60	1.91	223.47	-	-	-	-	-	-	668.07
Wire, #12 solid	2.81	clf	34.00	95.54	15.90	44.68	-	-	-	-	-	-	140.22
Wall plate, 1-gang	4	ea	5.56	22.24	1.34	5.36	-	-	-	-	-	-	27.60
Manual motor starter, 1-pole	3	ea	58.00	174.00	62.50	187.50	-	-	-	-	-	-	361.50
Wire, #1/0	0.6	clf	111.00	66.60	254.00	152.40	-	-	-	-	-	-	219.00
Wire, #6	0.15	clf	57.00	8.55	62.00	9.30	-	-	-	-	-	-	17.85
Wire, #2	2.2	clf	82.00	180.40	155.00	341.00	-	-	-	-	-	-	521.40
Wire, #8	0.55	clf	46.50	25.58	41.50	22.83	-	-	-	-	-	-	48.40
Wire, #4	0.15	clf	70.00	10.50	98.50	14.78	-	-	-	-	-	-	25.28
Grounding	1	ls	-	-	-	-	8,200.00	8,200.00	-	-	-	-	8,200.00
				\$6,324.61		\$4,917.21		\$10,500.00		\$0.00		\$1,712.00	\$23,453.81
Electrical Contractor Overhead	8%			505.97		393.38		840.00		-		136.96	1,876.31
Profit	8%			505.97		393.38		840.00		-		136.96	1,876.31
TOTAL ELECTRICAL				7,336.54		5,703.96		12,180.00		0.00		1,985.92	27,206.42

Division 31, 32 and 33													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 31 - Earthwork													
Building interior pit structural fill	57	cy	10.00	574.81	24.00	1,379.56	-	-	-	-	-	-	1,954.37
Sub Total Earthwork				574.81		1,379.56		-		-		-	1,954.37
Division 32 - Exterior Improvements													
Sidewalks	0	lf	-	-	-	-	-	-	-	-	-	-	0.00
Parking	0	ea	-	-	-	-	-	-	-	-	-	-	0.00
Landscaping	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sub Total Exterior Improvements				-		-		-		-		-	0.00
Division 33 - Utilities													
Water None	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sanitary None	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
Electric Hook up to existing	1	ls	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Sub Total Utilities				-		-		10,000.00		-		-	10,000.00
TOTAL EARTHWORK, Exterior Finishes & Utilities				574.81		1,379.56		10,000.00		0.00		0.00	11,954.37

Labor \$ 72,416

Material	\$ 272,664
Subcontract	\$ 422,799
Equipment	\$ 1,500
Other	\$ 1,986
Total Cost	\$ 771,365
	\$ 771,365

**Diesel Plant Repair Project
Building 4
Monroe County Board of Commissioners**

1,620 sf

Division 2														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 2 - Existing Conditions														
Abatement														
Asbestos Abatement	1	allw	-	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Lead Paint Abatement	1	allw	-	-	-	-	-	3,500.00	3,500.00	-	-	-	-	3,500.00
Contaminated Soils	1	allw	-	-	-	-	-	5,000.00	5,000.00	-	-	-	-	5,000.00
Shoring - Heavy Duty	1	allw	-	-	-	-	-	15,000.00	15,000.00	-	-	-	-	15,000.00
Remove all electric and mechanical devices - leave Gen Set	1,620	sf	-	-	-	-	-	3.25	5,265.00	-	-	-	-	5,265.00
Broom Clean and dump	1,620	sf	-	-	-	-	-	0.30	486.00	-	-	-	-	486.00
TOTAL EXISTING CONDITIONS				0.00		0.00		39,251.00		0.00		0.00		39,251

Division 3														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 3 - Concrete														
Building Slab Repair (Cut and Square Edges, Structural Gravel, Dowels, Placement)														
Pit Infill Slab Structure	36	sf												
Ready Mix Materials	0.44	cy	-	-	145.00	64.38	-	-	-	-	-	-	-	64.38
Admixtures - mid range	0.44	cy	-	-	3.00	1.33	-	-	-	-	-	-	-	1.33
Fiber Mesh	0.44	cy	-	-	5.00	2.22	-	-	-	-	-	-	-	2.22
Dowels	20	ea	15.00	300.00	3.00	60.00	-	-	-	-	-	-	-	360.00
SOG Concrete Placement	36	sf	2.00	72.00	-	-	-	-	-	-	-	-	-	72.00
Cure	36	sf	0.05	1.80	0.02	0.72	-	-	-	-	-	-	-	2.52
Caulk Control Joint & Saw Cuts	0	lf	1.00	-	0.44	-	-	-	-	-	-	-	-	0.00
Pour Prep	1	ls	450.00	450.00	-	-	-	-	-	-	-	-	-	450.00
Pumps	1	ea	-	-	-	-	-	-	1,500.00	1,500.00	-	-	-	1,500.00
TOTAL CONCRETE				823.80		128.65		0.00		1,500.00		0.00		2,452

Division 4														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 4 - Masonry														
Exterior Masonry Repair														
Exterior Scaffold	2,610	sf	-	-	-	-	4.50	11,745.00	-	-	-	-	0.00	11,745.00
Exterior Scaffold Reinforced Plastic Wrap for Dust Control	2,610	sf	-	-	-	-	3.10	8,091.00	-	-	-	-	0.00	8,091.00
Exterior Elevation A Repoint	1,135	sf	-	-	-	-	3.25	3,688.75	-	-	-	-	0.00	3,688.75
Exterior Elevation B Repoint	516	sf	-	-	-	-	3.25	1,677.00	-	-	-	-	0.00	1,677.00
Grout Masonry Door & Window Jambs	14	ea	-	-	-	-	41.00	574.00	-	-	-	-	0.00	574.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	0.00	3,485.00
Interior Masonry Repair														
Interior Scaffold	2,610	sf	-	-	-	-	4.50	11,745.00	-	-	-	-	-	11,745.00
Interior Elevation 1 Repoint	1,135	sf	-	-	-	-	8.00	9,080.00	-	-	-	-	-	9,080.00
Interior Elevation 2 Repoint	516	sf	-	-	-	-	8.00	4,128.00	-	-	-	-	-	4,128.00
Structure Crack Repair	85	lf	-	-	-	-	41.00	3,485.00	-	-	-	-	-	3,485.00
Infills	10	ea	-	-	-	-	560.00	5,600.00	-	-	-	-	-	5,600.00
TOTAL MASONRY				0.00		0.00		63,298.75		0.00		0.00		63,298.75

Division 5														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 5 - Metals														
OPTION 2 ONLY														
Excavate Slab Removal & Excavate	8	ea	-	-	-	-	385.00	3,080.00	-	-	-	-	-	3,080.00

2'x2'x1.5'	Reinforced Concrete	8	ea	-	-	-	-	425.00	3,400.00	-	-	-	-	3,400.00
	Diamond expansion joint	8	ea	-	-	-	-	120.00	960.00	-	-	-	-	960.00
Materials														
Beams		lf	ea											
W14 x 61	30	8	14640											
W12 x 30	15	24	10800											
		32	25440											
	\$2,500	\$80,000	13	tns	-	-	6,500.00	86,814.00	-	-	-	-	-	86,814.00
Primer	\$2.5 per pd Industrial		13	tns	-	-	250.00	3,339.00	-	-	-	-	-	3,339.00
	\$4.30 per pd Commercial													
Labor														
	hr	daily												
Labor foreman	\$65.55	\$524.40												
Steel Erector 1	\$55.00	\$440.00												
Steel Erector 2	\$55.00	\$440.00												
Steel Erector 3	\$55.00	\$440.00												
Pick up truck		\$36.00												
Rack truck		\$101.00												
Hoist & Lifts		\$673.00												
Perdiem		\$1,250.00												
Overhead & Profit		\$875.95												
Daily Burn Rate		\$4,780.35												
	Steel Contractor		5	day	\$4,780.35	23,901.76	-	-	-	-	-	-	-	23,901.76
Crane Service			5	day	-	-	-	-	1,100.00	5,500.00	-	-	-	5,500.00
TOTAL METALS					23,901.76	93,431.00	5,500.00	0.00	0.00	0.00	122,833			

Division 6														
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL	
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total		
Division 6 - Wood & Plastics														
Building Roof Framing	rebuild on existing steel													
Replace in Kind	Beam Pads	20	ea	-	-	24.00	480.00	-	-	-	-	-	480.00	
	Roof Joist	72	ea	-	-	24.00	1,728.00	-	-	-	-	-	1,728.00	
	Truss Spacers	50	lf	-	-	0.63	31.50	-	-	-	-	-	31.50	
	Roof Strapping	150	3f	-	-	0.63	94.50	-	-	-	-	-	94.50	
	Roof Sheathing	50	sheets	-	-	30.00	1,513.13	-	-	-	-	-	1,513.13	
	Roof Soffit	87	rf	-	-	65.00	5,655.00	-	-	-	-	-	5,655.00	
	Parapet End wall Framing & Sheathin	240	sf	-	-	45.00	10,800.00	-	-	-	-	-	10,800.00	
	Timber Frame Components	1	ls	-	-	10,000.00	10,000.00	-	-	-	-	-	10,000.00	
	Hardware, hangers & fasteners	1	ls	-	-	15,000.00	15,000.00	-	-	-	-	-	15,000.00	
	Carpenter Crew	6 men 2 weeks	360	man hrs	53.20	19,152.00	-	-	-	-	-	-	19,152.00	
TOTAL WOOD & PLASTICS					19,152.00	45,302.13	0.00	0.00	0.00	0.00	0.00	64,454		

Division 7													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 7 - Thermal & Moisture Protection													
	Exterior Stuccos Finish	2,208	sf	-	-	-	-	5.00	11,040.00	-	-	-	11,040.00
	Metal Roofing	1,614	sf	-	-	-	-	14.00	22,596.00	-	-	-	22,596.00
	Galv Metal Gutter	480	lf	-	-	-	-	16.00	7,680.00	-	-	-	7,680.00
	Joint Sealants	1	ls	-	-	-	-	600.00	600.00	-	-	-	600.00

TOTAL THERMO MOISTURE	0.00	0.00	41,916.00	0.00	0.00	41,916
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Division 8													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 8 - Doors & Windows													
Interior Doors													
None	0	ea	-	-	-	-	-	-	-	-	-	-	0.00
Exterior Doors													
Door & Hardware	1	ea	455.00	455.00	1,121.00	1,121.00	-	-	-	-	-	-	1,576.00
Windows and Glazing													
Installation Crew													
hourly													
daily													
Foreman	50.00		\$400.00										0.00
Journeyman 1	38.00		\$304.00										0.00
Journeyman 2	38.00		\$304.00										0.00
Journeyman 3	38.00		\$304.00										0.00
Pick up truck			\$35.00										0.00
Rack Truck			\$125.00										0.00
Van with tools and parts			\$185.00										0.00
Per diem			\$1,300.00										0.00
Daily Sub Total		2	\$2,957.00	5,914.00									5,914.00
Division 10 - Specialties													
ITEM DESCRIPTION													
ITEM DESCRIPTION													
Not Used	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL CONVEYORS													
0.00 0.00 0.00 0.00 0.00 0													

Division 21													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 21 - Fire Protection													
None Required	1	ea	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL MECHANICAL													
0.00 0.00 0.00 0.00 0.00 0													

Division 22													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 22 - Plumbing													
See Demolition in Division 2		Assembly											
Plumbing Contractor Overhead	8%												-
Profit	8%												-
TOTAL PLUMBING													
0.00 0.00 0.00 0.00 0.00 0.00													

Division 23													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 23 - Mechanical - HVAC													
See Demolition in Division 2	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
HVAC Contractor Overhead	8%			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Profit	8%												-
TOTAL HVAC													
0.00 0.00 0.00 0.00 0.00 0.00													

Division 26													
ITEM DESCRIPTION	Quantity	Labor Cost	Material Cost	Subcontractor	Equipment	Other	TOTAL						

ITEM DESCRIPTION	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 26 - Electrical													
Construction Temp Power	1	ls	-	-	-	-	2,300.00	2,300.00	-	-	-	2,300.00	
Construction Illumination	3,424	sf	-	-	-	-	-	-	-	0.50	1,712.00	1,712.00	
Panel 480Y,270V, 42 circuits	1	ea	4,065.00	4,065.00	1,575.00	1,575.00	-	-	-	-	-	5,640.00	
Dry Transformer	1	ea	220.00	220.00	340.00	340.00	-	-	-	-	-	560.00	
2'x4' Fixture	4	ea	74.00	296.00	153.00	612.00	-	-	-	-	-	908.00	
Emergency ballast, factory installed	2	ea	0.00	0.00	157.00	314.00	-	-	-	-	-	314.00	
Fixture wiring whip	4	ea	12.40	49.60	15.00	60.00	-	-	-	-	-	109.60	
Exit light, LED, single face w/battery	2	ea	84.00	168.00	126.00	252.00	-	-	-	-	-	420.00	
Emergency Light with Battery Backup	4	ea	110.00	440.00	162.00	648.00	-	-	-	-	-	1,088.00	
Toggle switch, single pole with occupancy sensor	1	ea	14.50	14.50	8.40	8.40	-	-	-	-	-	22.90	
Receptacle, GFI, 20A	3	ea	14.50	43.50	35.50	106.50	-	-	-	-	-	150.00	
Electrical metallic tubing, 3/4"	117	lf	3.80	444.60	1.91	223.47	-	-	-	-	-	668.07	
Wire, #12 solid	2.81	clf	34.00	95.54	15.90	44.68	-	-	-	-	-	140.22	
Wall plate, 1-gang	4	ea	5.56	22.24	1.34	5.36	-	-	-	-	-	27.60	
Manual motor starter, 1-pole	3	ea	58.00	174.00	62.50	187.50	-	-	-	-	-	361.50	
Wire, #1/0	0.6	clf	111.00	66.60	254.00	152.40	-	-	-	-	-	219.00	
Wire, #6	0.15	clf	57.00	8.55	62.00	9.30	-	-	-	-	-	17.85	
Wire, #2	2.2	clf	82.00	180.40	155.00	341.00	-	-	-	-	-	521.40	
Wire, #8	0.55	clf	46.50	25.58	41.50	22.83	-	-	-	-	-	48.40	
Wire, #4	0.15	clf	70.00	10.50	98.50	14.78	-	-	-	-	-	25.28	
Grounding	1	ls	-	-	-	-	8,200.00	8,200.00	-	-	-	8,200.00	
				6,324.61		4,917.21		10,500.00		0.00		1,712.00	23,453.81
Electrical Contractor Overhead	8%			505.97		393.38		840.00		-		136.96	1,876.31
Profit	8%			505.97		393.38		840.00		-		136.96	1,876.31
TOTAL ELECTRICAL				7,336.54		5,703.96		12,180.00		0.00		1,985.92	27,206.42

ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 31 - Earthwork													
Building interior pit structural fill	11	cy	10.00	106.67	24.00	256.00	-	-	-	-	-	-	362.67
Sub Total Earthwork				106.67		256.00							362.67
Division 32 - Exterior Improvements													
Sidewalks	0	lf	-	-	-	-	-	-	-	-	-	-	0.00
Parking	0	ea	-	-	-	-	-	-	-	-	-	-	0.00
Landscaping	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sub Total Exterior Improvements													
Division 33 - Utilities													
Water	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sanitary	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
Electric	1	ls	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Sub Total Utilities								10,000.00					10,000.00
TOTAL EARTHWORK, Exterior Finishes & Utilities				106.67		256.00		10,000.00		0.00		0.00	10,362.67

Labor	\$ 58,688
Material	\$ 157,023
Subcontract	\$ 189,286
Equipment	\$ 1,500
Other	\$ 1,986
Total Cost	\$ 408,482
	\$ 408,482

**Diesel Plant Repair Project
Building 5
Monroe County Board of Commissioners**

170 sf

Division 2													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 2 - Existing Conditions													
Abatement													
Asbestos Abatement	1	allw	-	-	-	-	3,000.00	3,000.00	-	-	-	-	3,000.00
Lead Paint Abatement	1	allw	-	-	-	-	3,500.00	3,500.00	-	-	-	-	3,500.00
Contaminated Soils	1	allw	-	-	-	-	5,000.00	5,000.00	-	-	-	-	5,000.00
Shoring - Heavy Duty	1	allw	-	-	-	-	-	-	-	-	-	-	0.00
Remove all electric and mechanical devices - leave Gen Set	170	sf	-	-	-	-	3.25	552.50	-	-	-	-	552.50
Broom Clean and dump	170	sf	-	-	-	-	0.30	51.00	-	-	-	-	51.00
TOTAL EXISTING CONDITIONS				0.00		0.00		12,103.50		0.00		0.00	12,104

Division 3													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 3 - Concrete													
Building Slab Repair (Cut and Square Edges, Structural Gravel, Dowels, Placement)													
Pit Infill Slab Structure	40	sf											
Ready Mix Materials	13	cy	-	-	145.00	1,931.40	-	-	-	-	-	-	1,931.40
Admixtures - mid range	13	cy	-	-	3.00	39.96	-	-	-	-	-	-	39.96
Fiber Mesh	13	cy	-	-	5.00	66.60	-	-	-	-	-	-	66.60
Dowels	14	ea	15.00	210.00	3.00	42.00	-	-	-	-	-	-	252.00
SOG Concrete Placement	14	sf	2.00	28.00	-	-	-	-	-	-	-	-	28.00
Cure	14	sf	0.05	0.70	0.02	0.28	-	-	-	-	-	-	0.98
Caulk Control Joint & Saw Cuts	0	lf	1.00	-	0.44	-	-	-	-	-	-	-	0.00
Pour Prep	1	ls	450.00	450.00	-	-	-	-	-	-	-	-	450.00
TOTAL CONCRETE				688.70		2,080.24		0.00		0.00		0.00	2,769

Division 4													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 4 - Masonry													
Exterior Masonry Repair													
Exterior Scaffold		sf	-	-	-	-	4.50	-	-	-	-	-	0.00
Exterior Scaffold Reinforced Plastic Wrap for Dust Control		sf	-	-	-	-	2.00	-	-	-	-	-	0.00
Exterior Elevation 1 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 2 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 3 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 4 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Grout Masonry Door & Window Jamb		ea	-	-	-	-	41.00	-	-	-	-	-	0.00
Structure Crack Repair		lf	-	-	-	-	41.00	-	-	-	-	-	0.00
Interior Masonry Repair													
Exterior Scaffold		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 1 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 2 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 3 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Exterior Elevation 4 Repoint		sf	-	-	-	-	1.00	-	-	-	-	-	0.00
Grout Masonry Door & Window Jamb		ea	-	-	-	-	41.00	-	-	-	-	-	0.00
Structure Crack Repair		lf	-	-	-	-	41.00	-	-	-	-	-	0.00
Infills		ea	-	-	-	-	560.00	-	-	-	-	-	0.00
TOTAL MASONRY				0.00		0.00		0.00		0.00		0.00	0.00

Division 5													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 5 - Metals													
OPTION 2 ONLY													
Not Used	0	ea	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL METALS				0.00		0.00		0.00		0.00		0.00	0

Division 8													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 8 - Doors & Windows													
Interior Doors													
None		ea	-	-	-	-	-	-	-	-	-	-	0.00
Exterior Doors													
None		ea	-	-	-	-	-	-	-	-	-	-	0.00
Division 9 - Finishes													
Paint				-	-	-	-	-	-	-	-	-	0.00
Division 10 - Specialties													
ITEM DESCRIPTION	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
ITEM DESCRIPTION	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Not Used	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL CONVEYORS				0.00		0.00		0.00		0.00		0.00	0

Division 21													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 21 - Fire Protection													
None Required	1	ea	-	-	-	-	-	-	-	-	-	-	0.00
TOTAL MECHANICAL				0.00		0.00		0.00		0.00		0.00	0

Division 22													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 22 - Plumbing													
See Demolition in Division 2		Assembly											
Plumbing Contractor Overhead	8%			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Profit	8%			-		-		-		-		-	-
TOTAL PLUMBING				0.00		0.00		0.00		0.00		0.00	0.00

Division 23													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 23 - Mechanical - HVAC													
See Demolition in Division 2	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
HVAC Contractor Overhead	8%			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Profit	8%			-		-		-		-		-	-
TOTAL HVAC				0.00		0.00		0.00		0.00		0.00	0.00

Division 26													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 26 - Electrical													
Grounding	1	ls		-		-		8,200.00		8,200.00		-	8,200.00

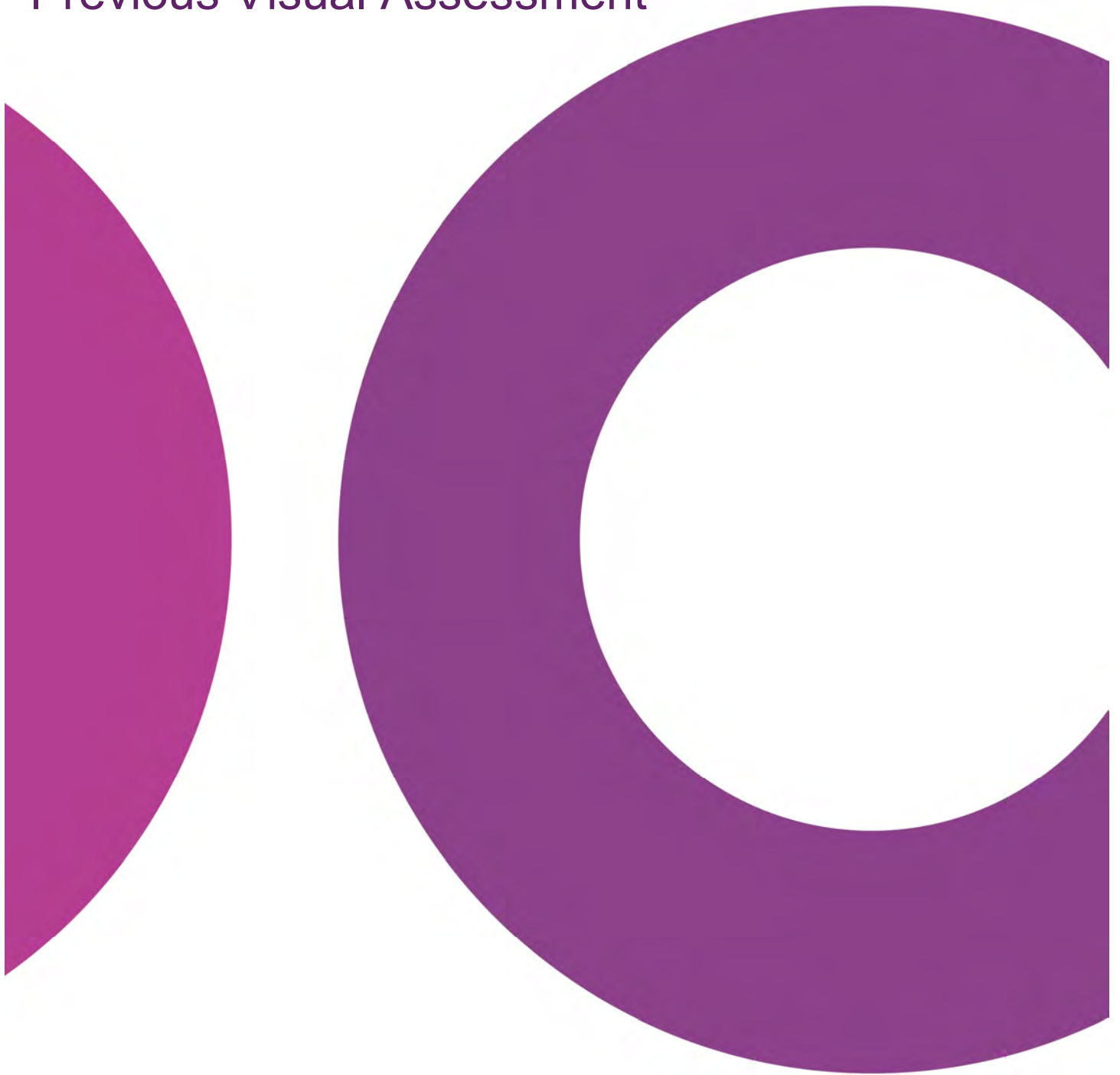
				\$0.00		\$0.00		\$8,200.00		\$0.00	-	\$0.00	8,200.00
Electrical Contractor Overhead	8%			-		-		656.00		-		-	656.00
Profit	8%			-		-		656.00		-		-	656.00
TOTAL ELECTRICAL				0.00		0.00		9,512.00		0.00		0.00	9,512.00

Division 31, 32 and 33													
ITEM DESCRIPTION	Quantity		Labor Cost		Material Cost		Subcontractor		Equipment		Other		TOTAL
	Number	Unit	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	
Division 31 - Earthwork													
Building interior pit structural fill	12	cy	10.00	118.52	24.00	284.44	-	-	-	-	-	-	402.96
Sub Total Earthwork			-	118.52	-	284.44	-	-	-	-	-	-	402.96
Division 32 - Exterior Improvements													
Sidewalks	0	lf	-	-	-	-	-	-	-	-	-	-	0.00
Parking	0	ea	-	-	-	-	-	-	-	-	-	-	0.00
Landscaping	0	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sub Total Exterior Improvements			-	-	-	-	-	-	-	-	-	-	0.00
Division 33 - Utilities													
Water	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
Sanitary	1	ls	-	-	-	-	-	-	-	-	-	-	0.00
Electric	1	ls	-	-	-	-	10,000.00	10,000.00	-	-	-	-	10,000.00
Sub Total Utilities			-	-	-	-	-	10,000.00	10,000.00	-	-	-	10,000.00
TOTAL EARTHWORK, Exterior Finishes & Utilities				118.52		284.44		10,000.00		0.00		0.00	10,402.96

Labor	\$	881
Material	\$	2,732
Subcontract	\$	35,130
Equipment	\$	-
Other	\$	-
Total Cost	\$	38,743
	\$	38,743

Appendix F
Previous Visual Assessment

wood.



DIESEL PLANT STRUCTURAL SURVEY
KEY WEST, FLORIDA

Project Status

SEAL: MARK J KEISTER PE 37435

REVISED / ISSUED FOR:

REV	DATE	DESCRIPTION

PROJECT NO. 316-048

DATE: 08.03.2016

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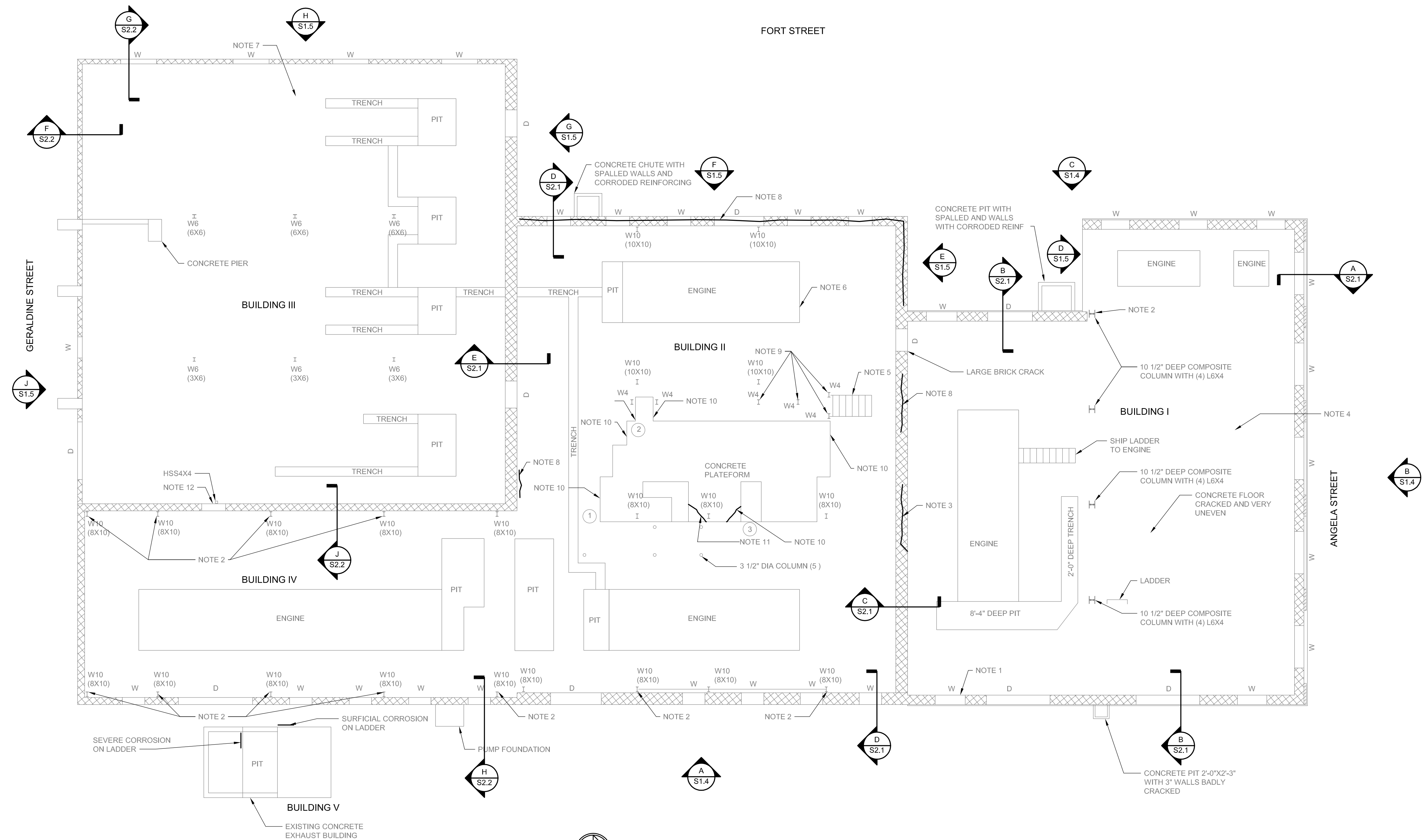
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SHEET TITLE:

EXISTING FLOOR PLAN

SHEET NO.

S1.1



EXISTING FLOOR PLAN
SCALE: 1/8"=1'-0"

- SURVEY NOTES:
1. DETERIORATED FACE OF BRICK
 2. BADLY CORRODED COLUMN BASE AND OR COLUMN
 3. CRACKS IN BRICK AT WALL PENETRATIONS AND ELEVATED OPENINGS
 4. CONCRETE FLOOR CRACKED AND UNEVEN
 5. BADLY CORRODED STAIR STRINGERS AT BASE OF STAIR
 6. TRENCH AND PIT EDGE ANGLE BADLY CORRODED
 7. CONCRETE FLOOR CRACKED AND UNEVEN - TRENCH AND PIT EDGE ANGLES ARE BADLY CORRODED
 8. DETERIORATED MORTAR JOINTS
 9. BADLY CORRODED POST BASE
 10. LARGE SPALL WITH EXPOSED CORRODING REINFORCING
 11. SEVERE CRACK AT CONCRETE BASE
 12. BADLY DETERIORATED BRICK AT WALL OPENING
 13. SURFICIAL CORROSION ON ALL STRUCTURAL STEEL.
- # CARBONATION AND CHLORIDE TEST

Project Status

SEAL: MARK J KEISTER PE 37435

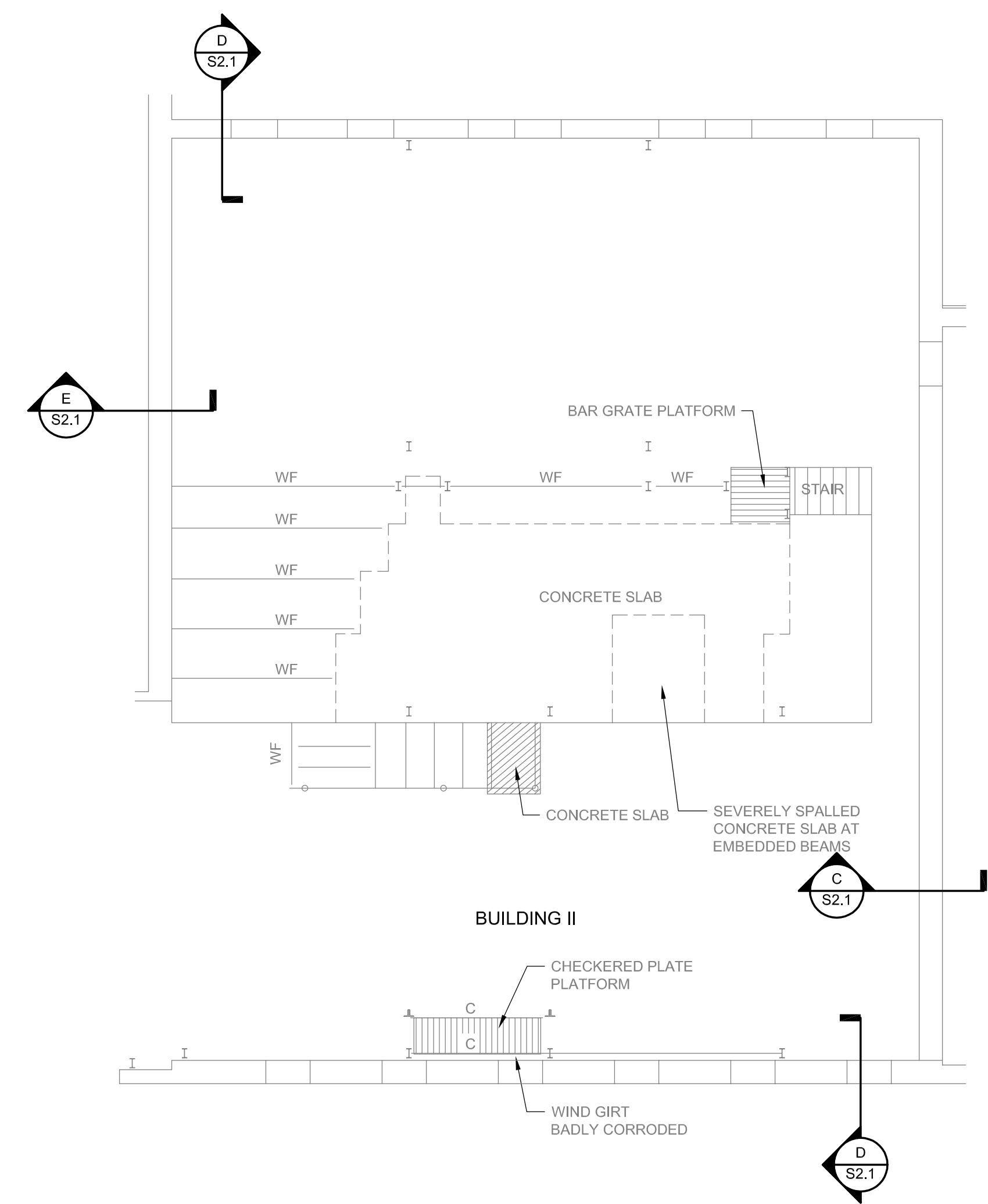
REVISED / ISSUED FOR:	
REV DATE	DESCRIPTION

PROJECT NO. 316-048
DATE: 08.03.2016
DRAWN BY: JEM
CHECKED BY: MJK

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EXISTING MEZZANINE FLOOR PLAN

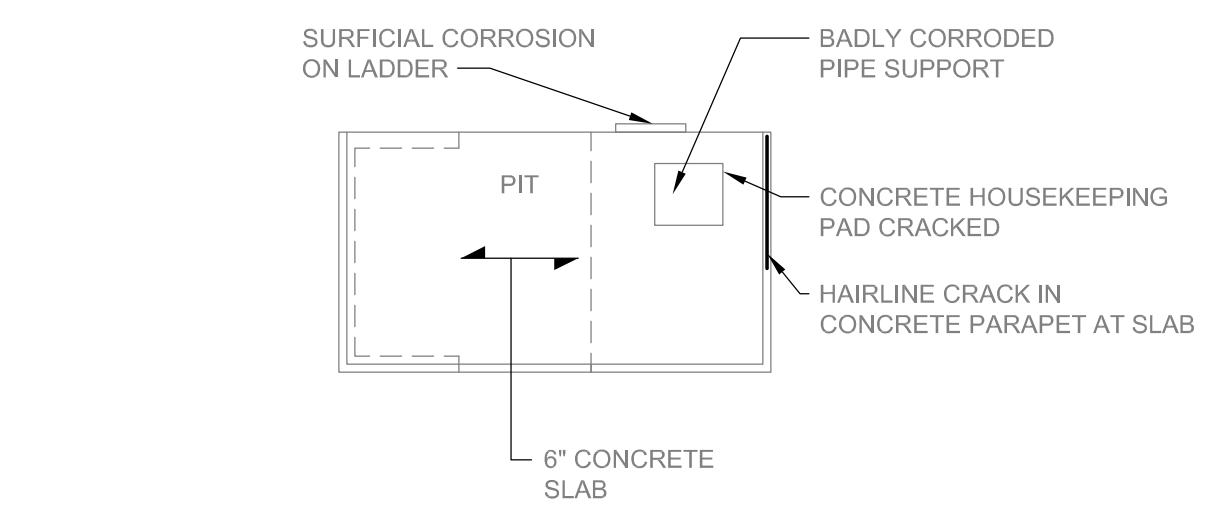
SHEET NO.

S1.2



 **EXISTING MEZZANINE FLOOR PLAN BUILDING II**
SCALE: 1/8"=1'-0"

SURVEY NOTES:
1. SURFICIAL CORROSION ON ALL STRUCTURAL STEEL.



 **EXISTING CONCRETE EXHAUST ROOF PLAN BUILDING V**
SCALE: 1/8"=1'-0"

DIESEL PLANT STRUCTURAL SURVEY
 KEY WEST, FLORIDA

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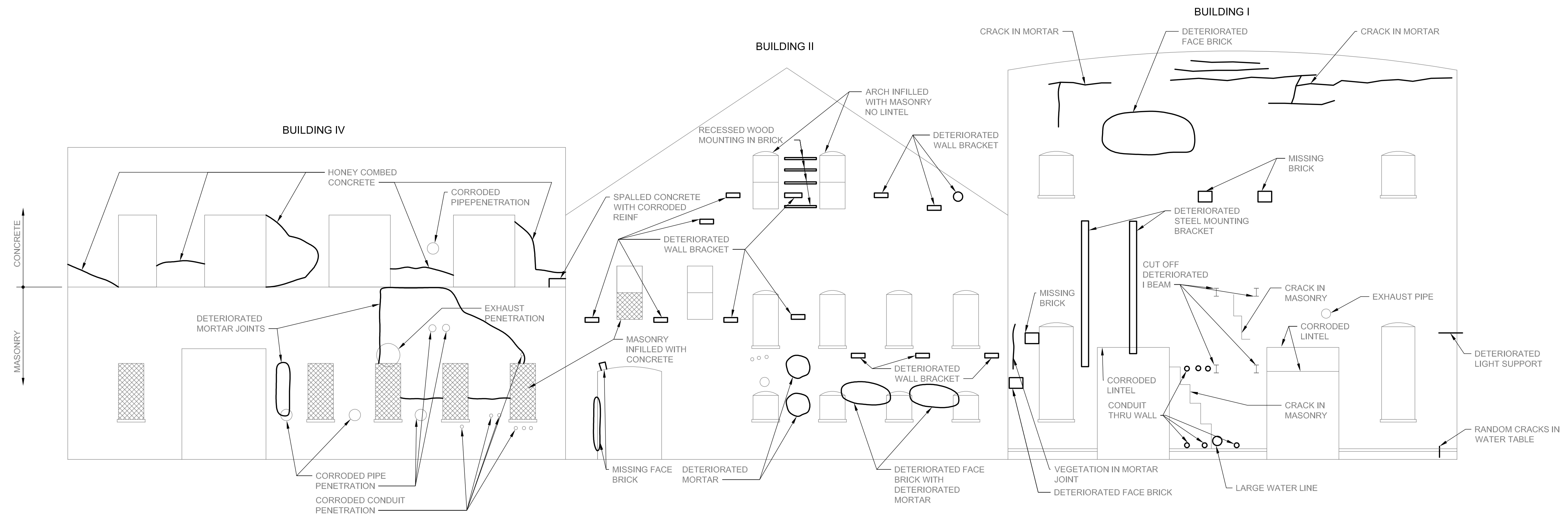
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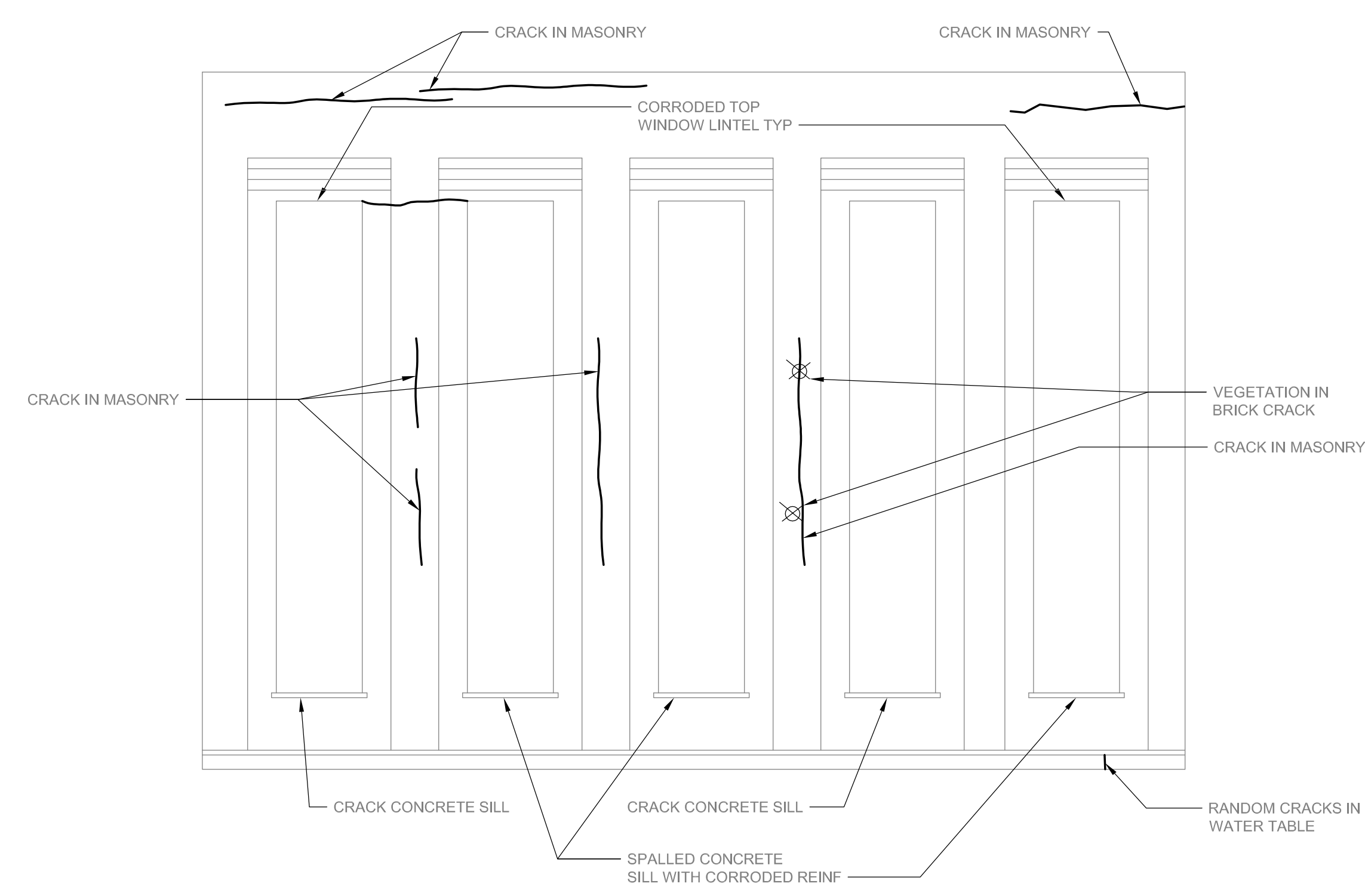
EXISTING ELEVATIONS

SHEET NO.

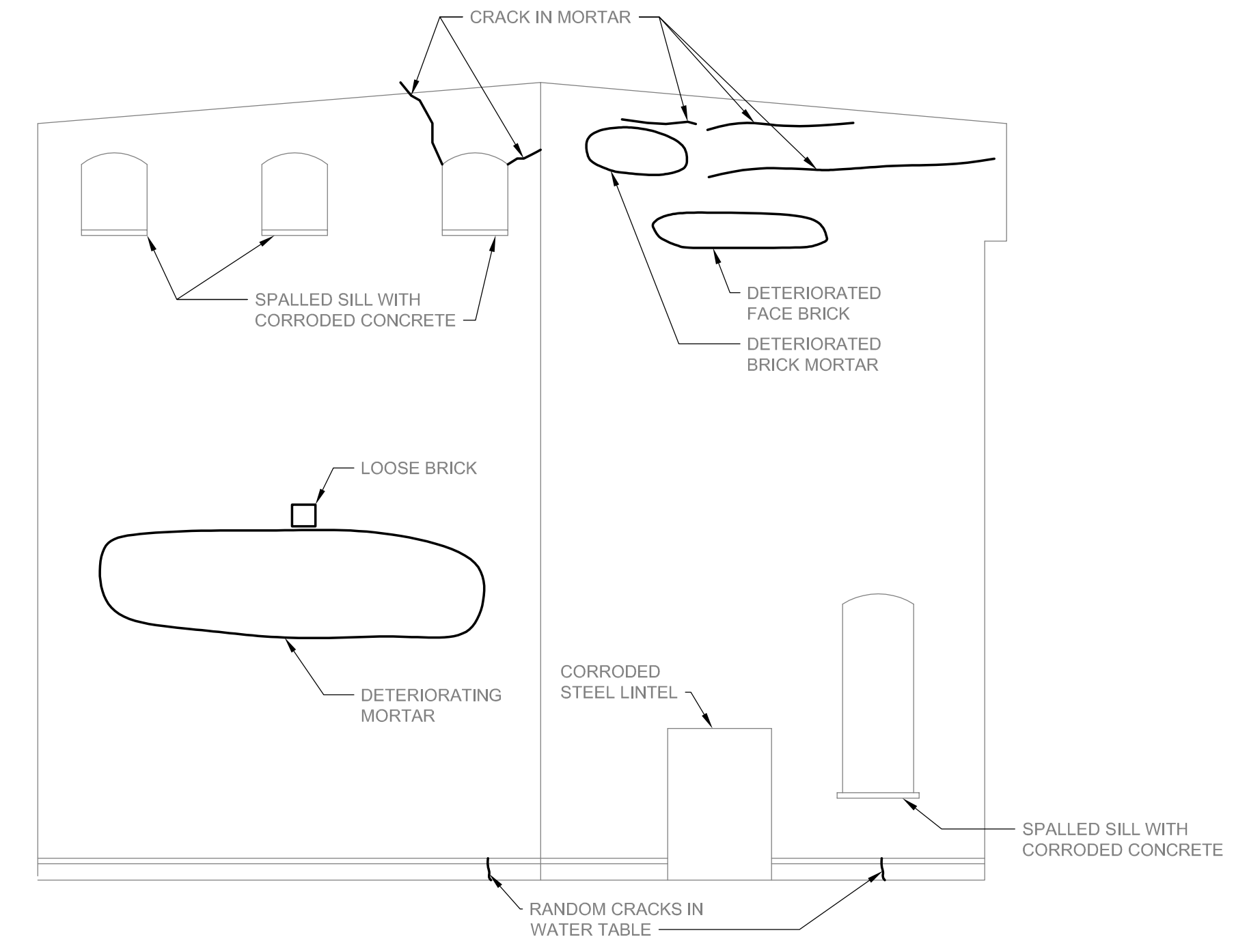
S1.4



ELEVATION A
 SCALE: 1/8"=1'-0" S1.4



ELEVATION BUILDING III B
 SCALE: 1/8"=1'-0" S1.4



ELEVATION BUILDING I C
 SCALE: 1/8"=1'-0" S1.4

DIESEL PLANT STRUCTURAL SURVEY
KEY WEST, FLORIDA

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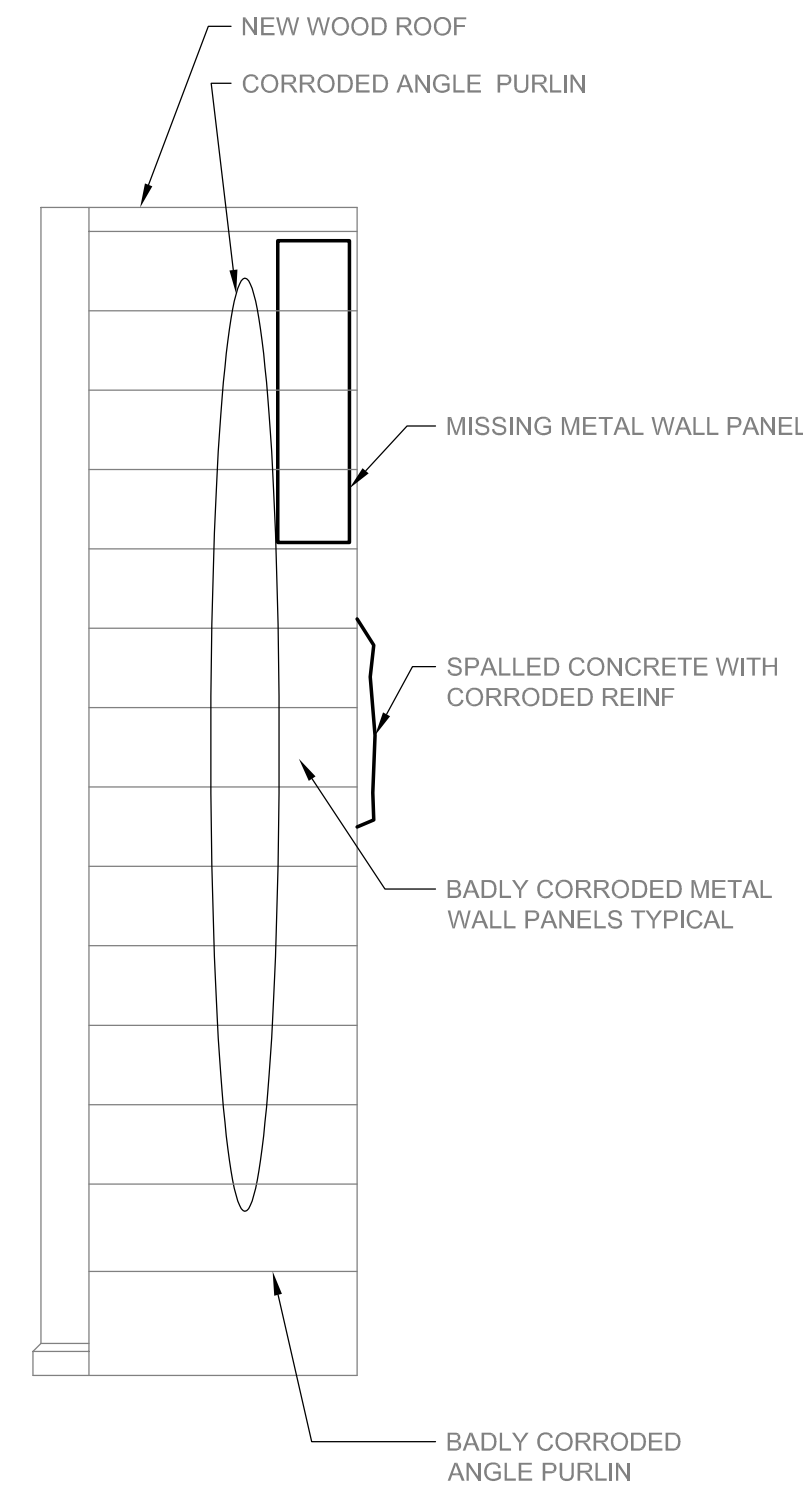
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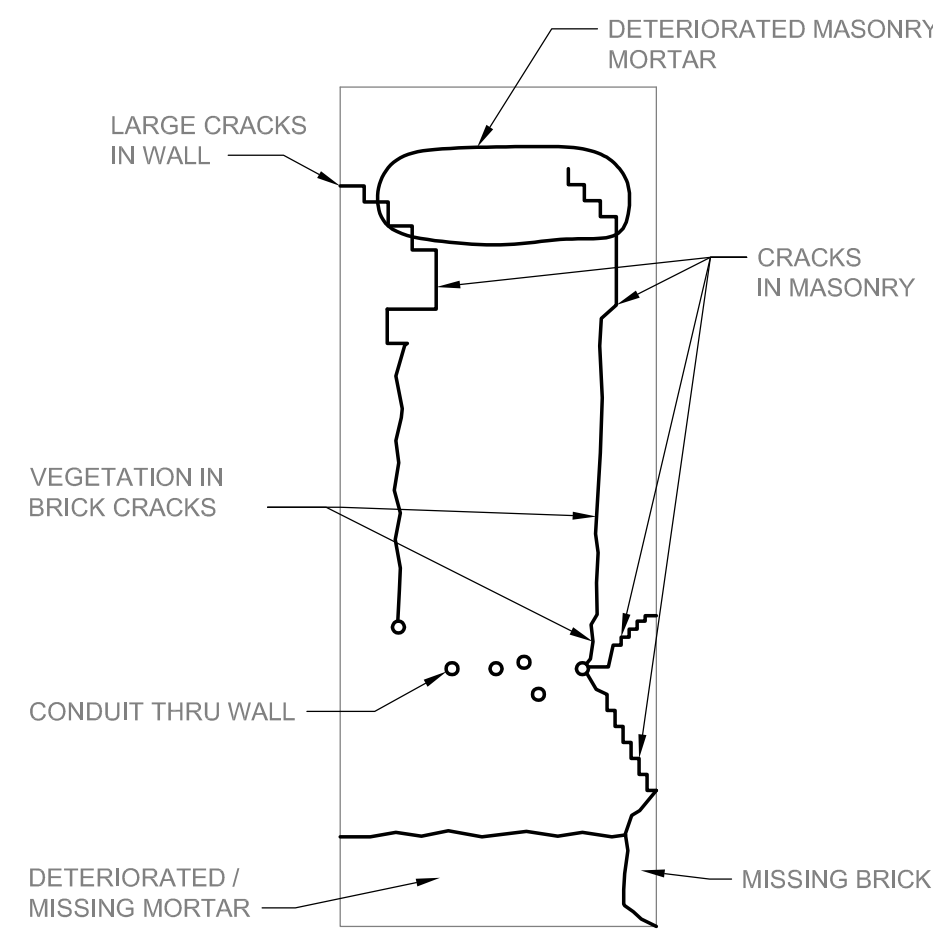
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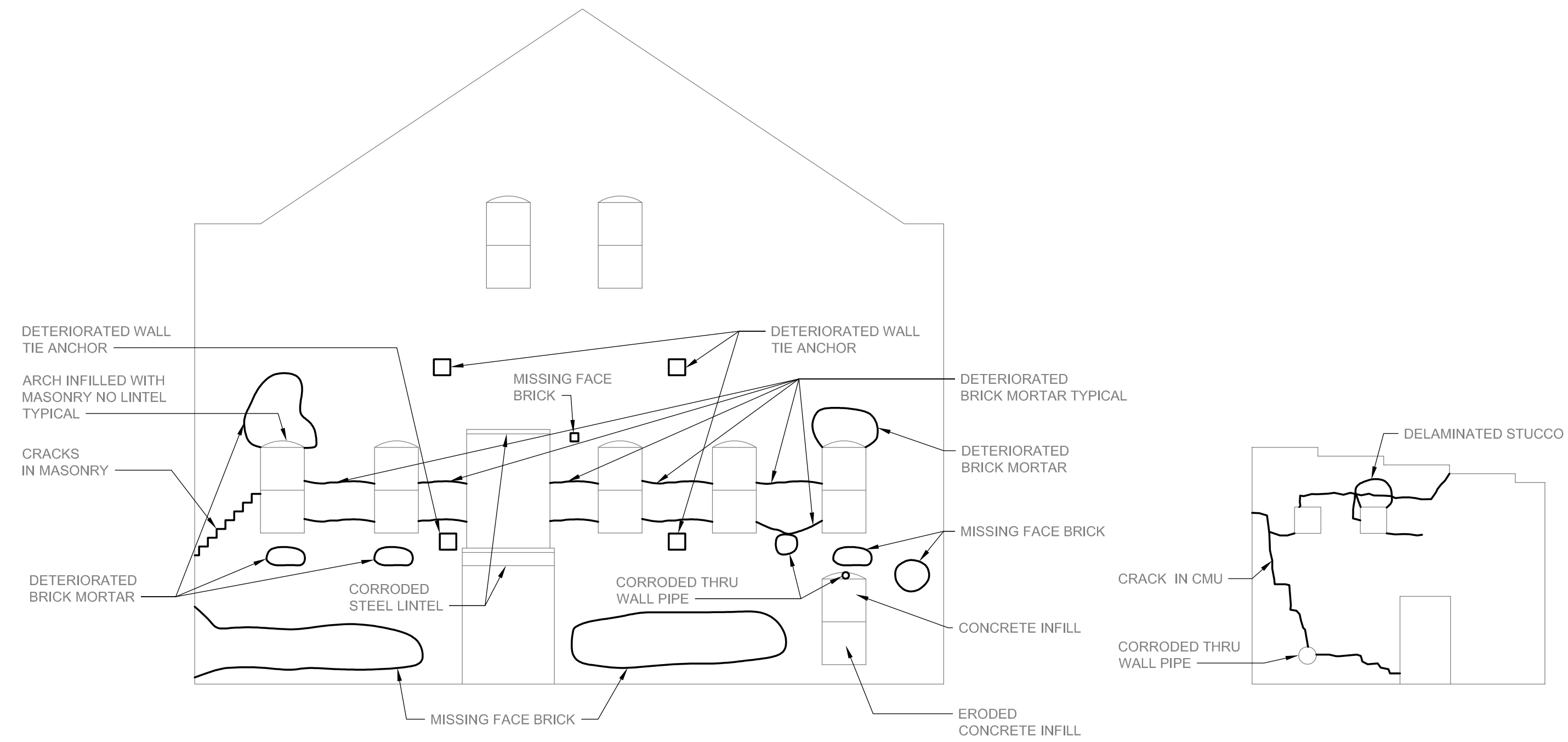
S1.5



ELEVATION BUILDING I (D) S1.5
SCALE: 1/8"=1'-0"

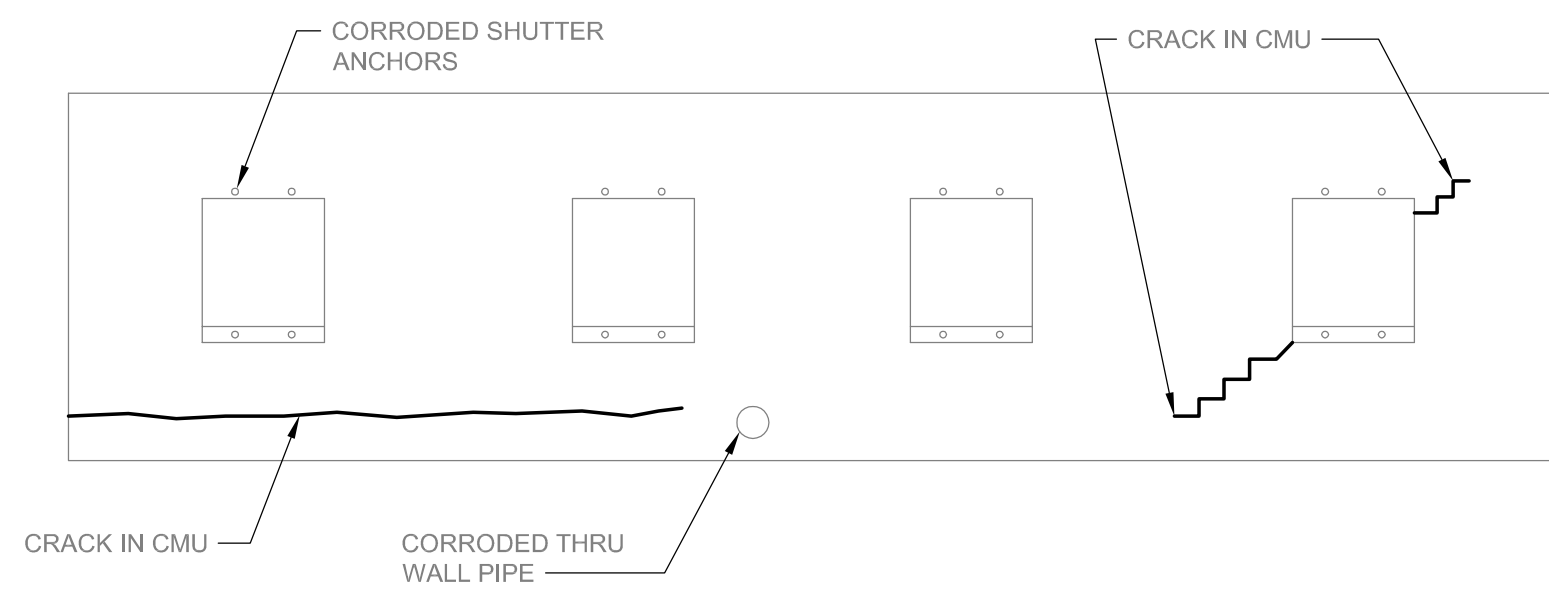


ELEVATION BUILDING II (E) S1.5
SCALE: 1/8"=1'-0"

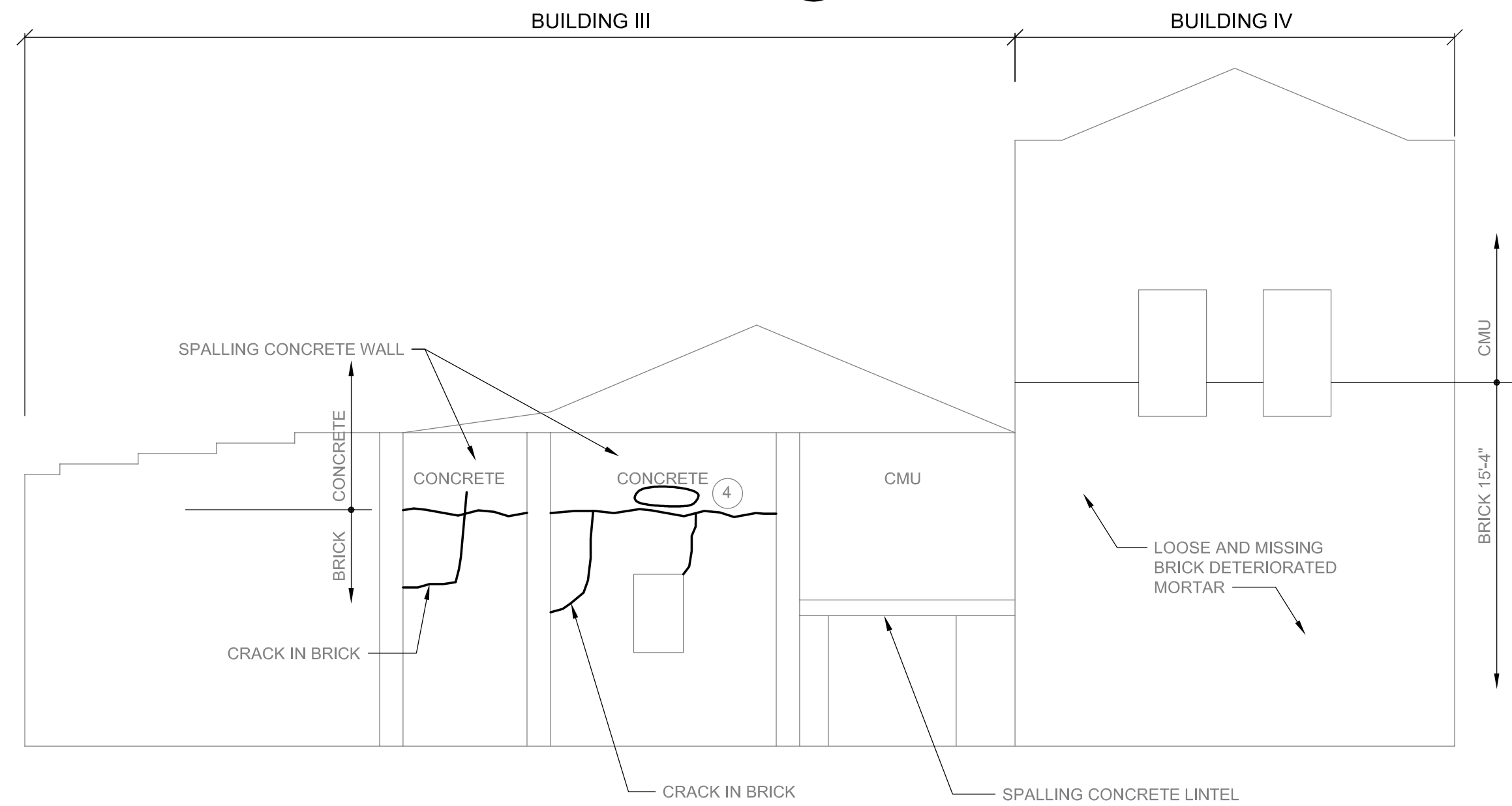


ELEVATION BUILDING II (F) S1.5
SCALE: 1/8"=1'-0"

ELEVATION BUILDING III (G) S1.5
SCALE: 1/8"=1'-0"



ELEVATION BUILDING III (H) S1.5
SCALE: 1/8"=1'-0"



ELEVATION (J) S1.5
SCALE: 1/8"=1'-0"

(#) CARBONATION AND CHLORIDE TEST



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DIESEL PLANT STRUCTURAL SURVEY
 KEY WEST, FLORIDA

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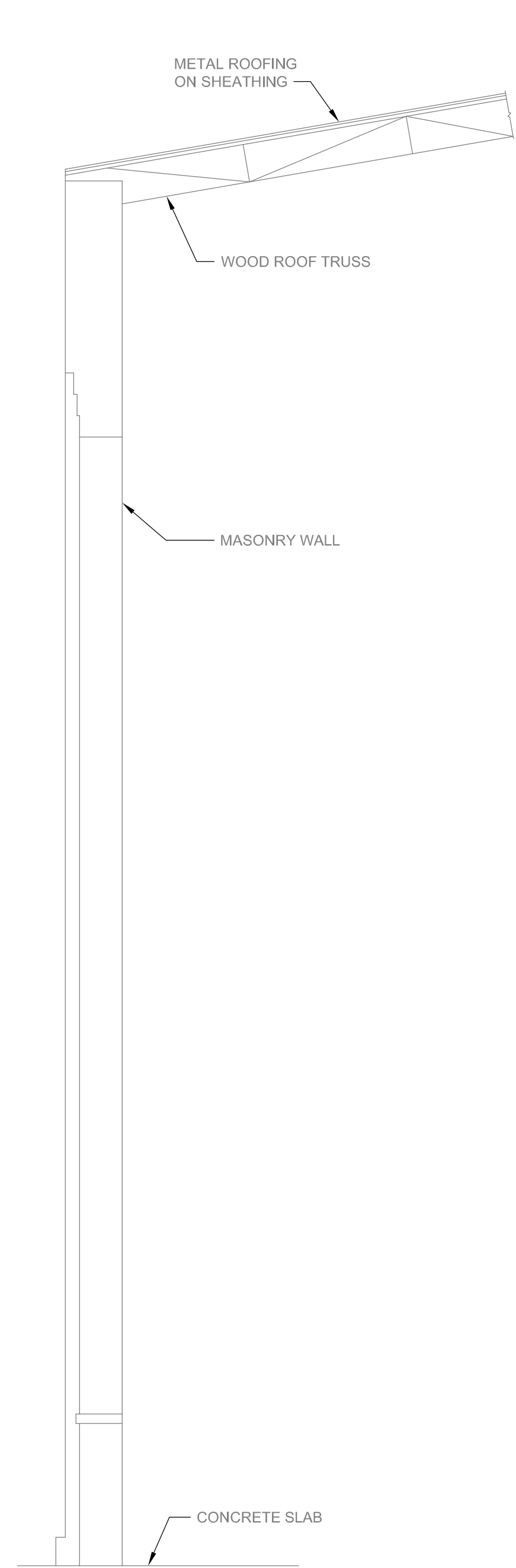
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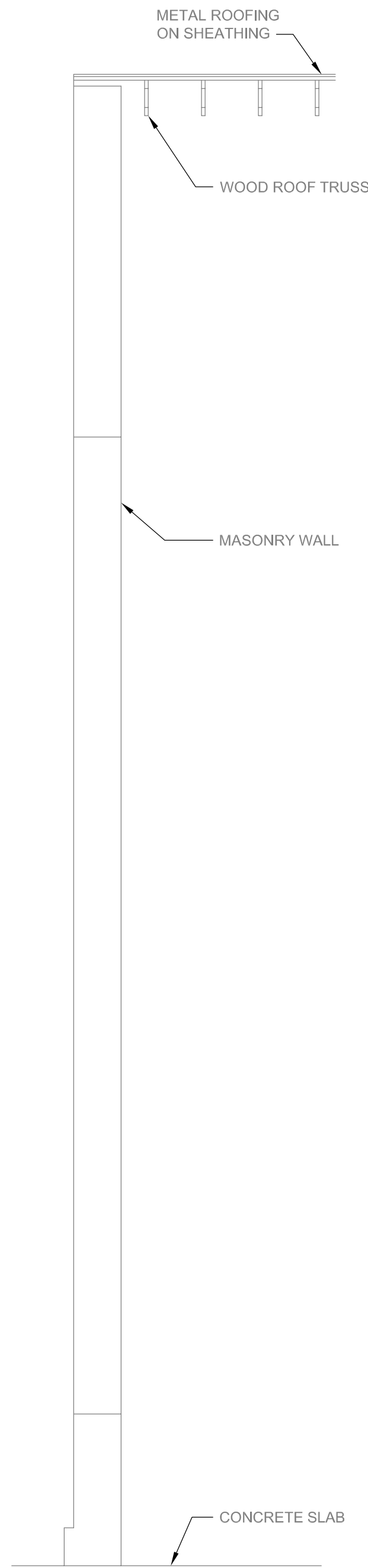
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SHEET NO.

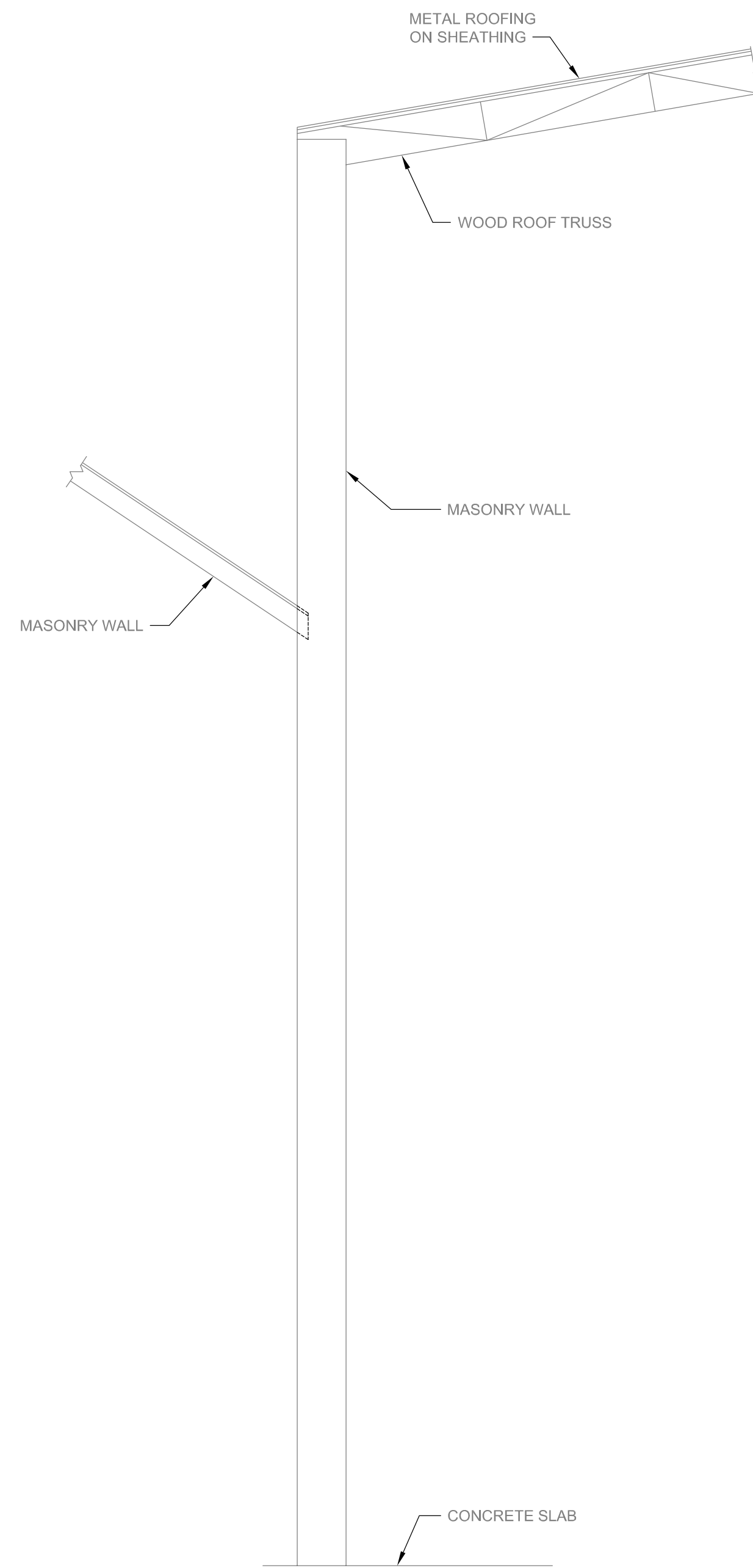
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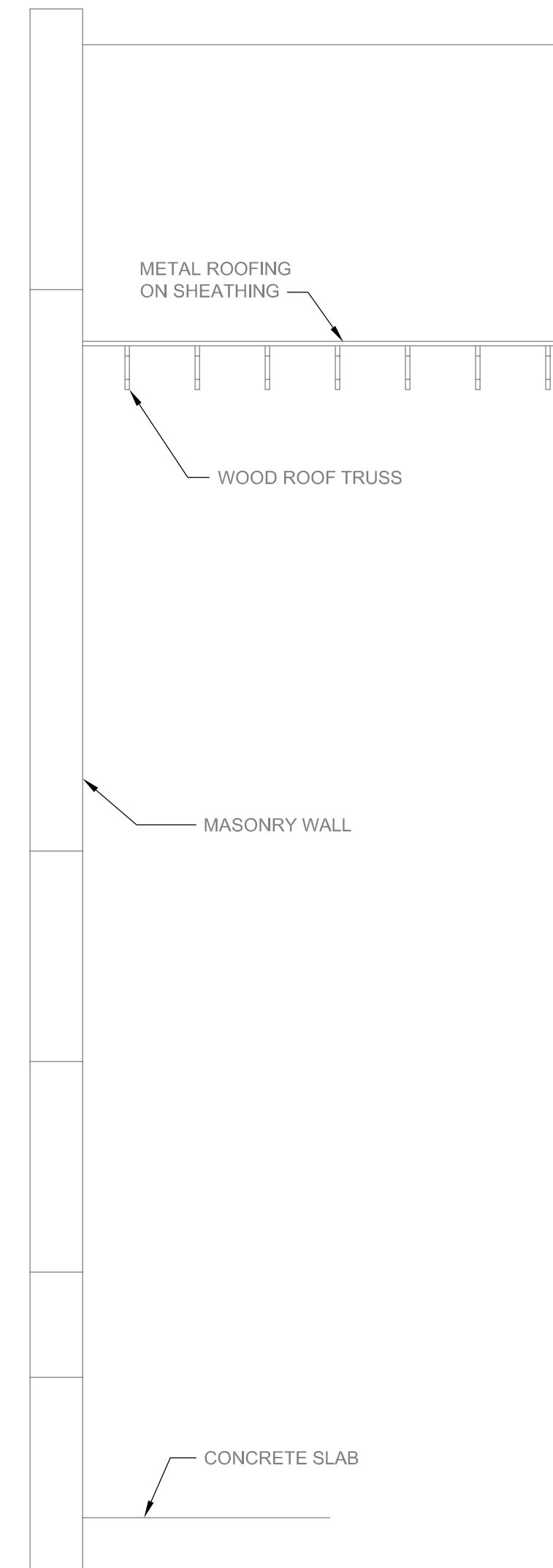
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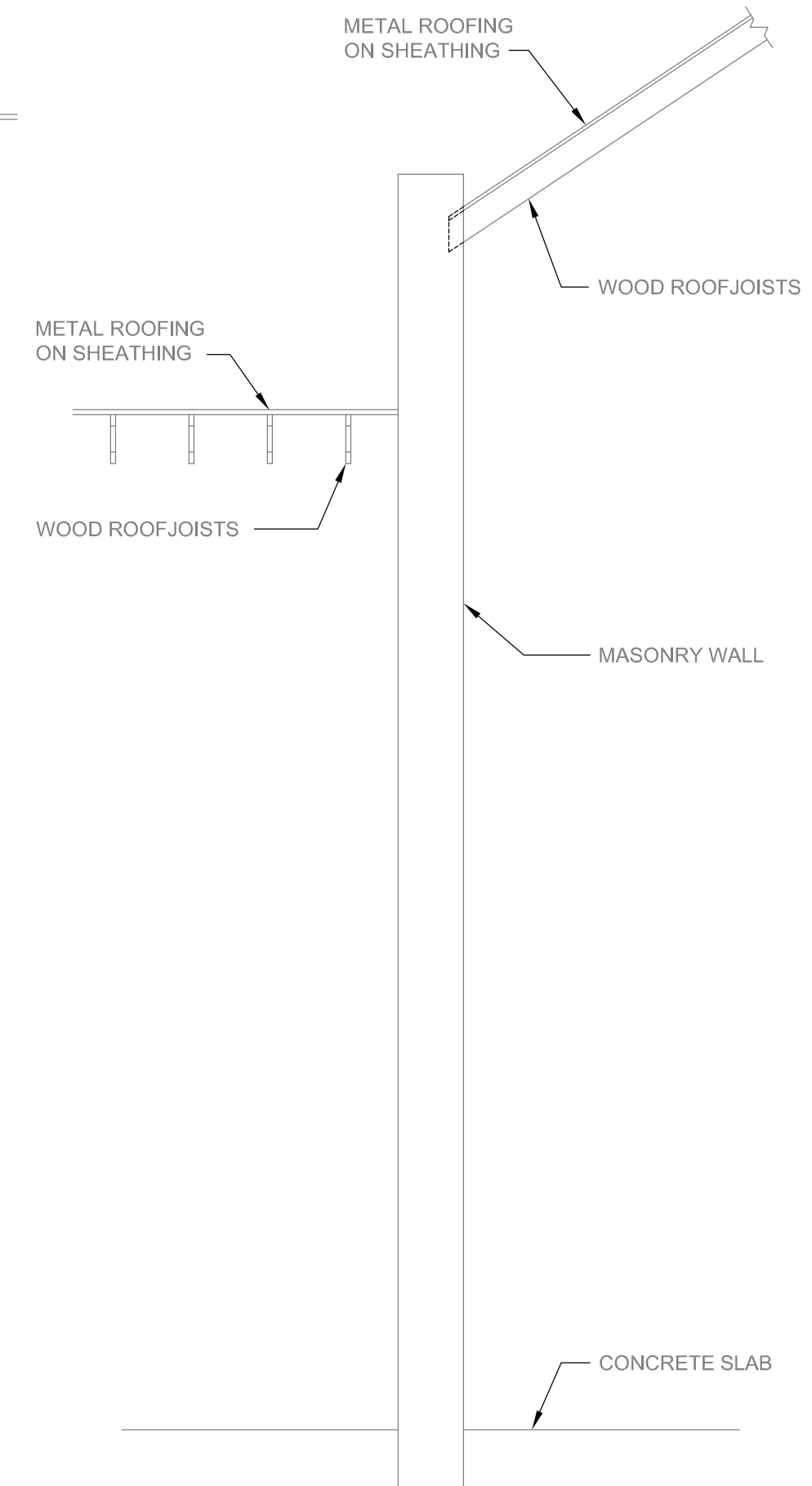
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 SCALE: 1/4" = 1'-0" S2.1



SECTION **C**
 SCALE: 1/4" = 1'-0" S2.1



SECTION **D**
 SCALE: 1/4" = 1'-0" S2.1



SECTION **E**
 SCALE: 1/4" = 1'-0" S2.1



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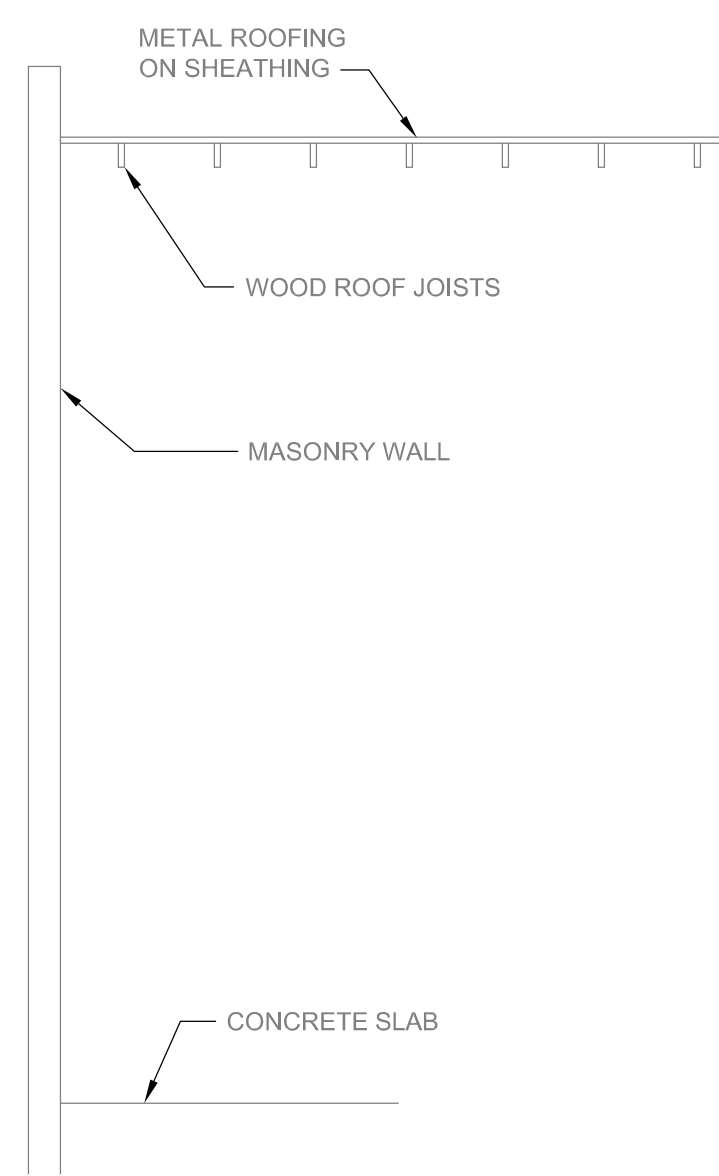
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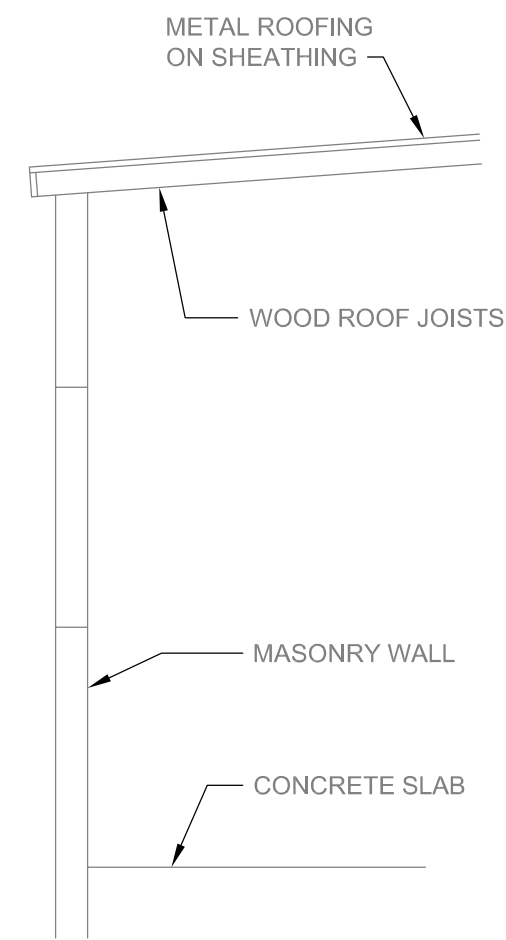
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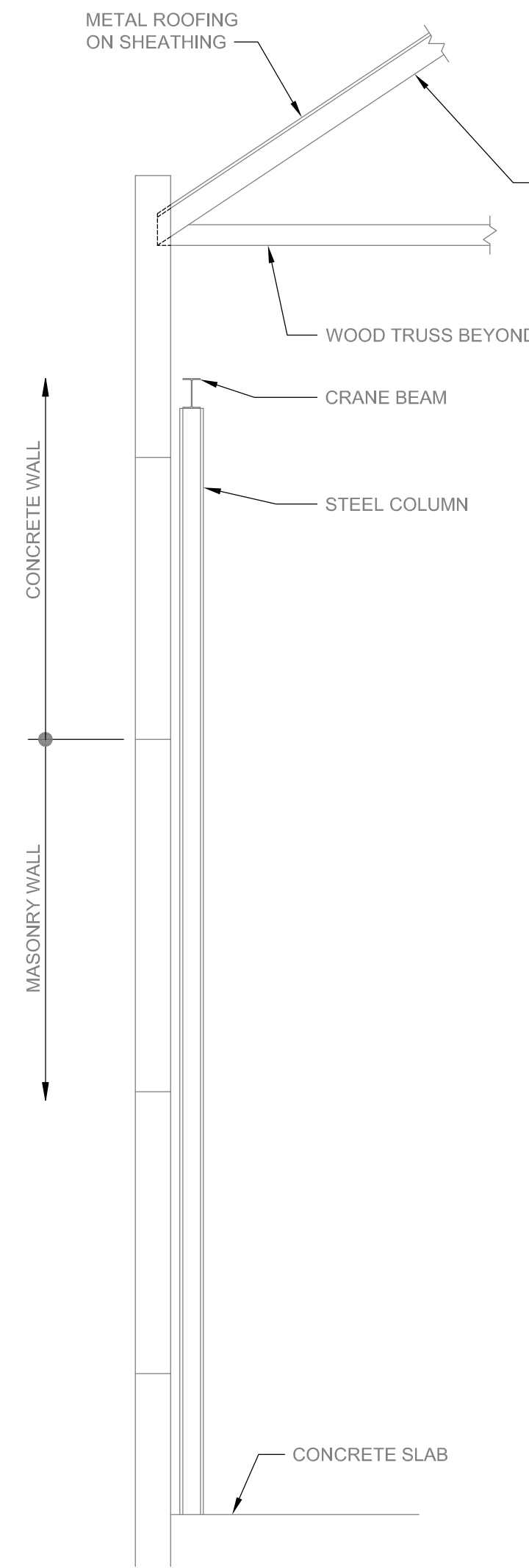
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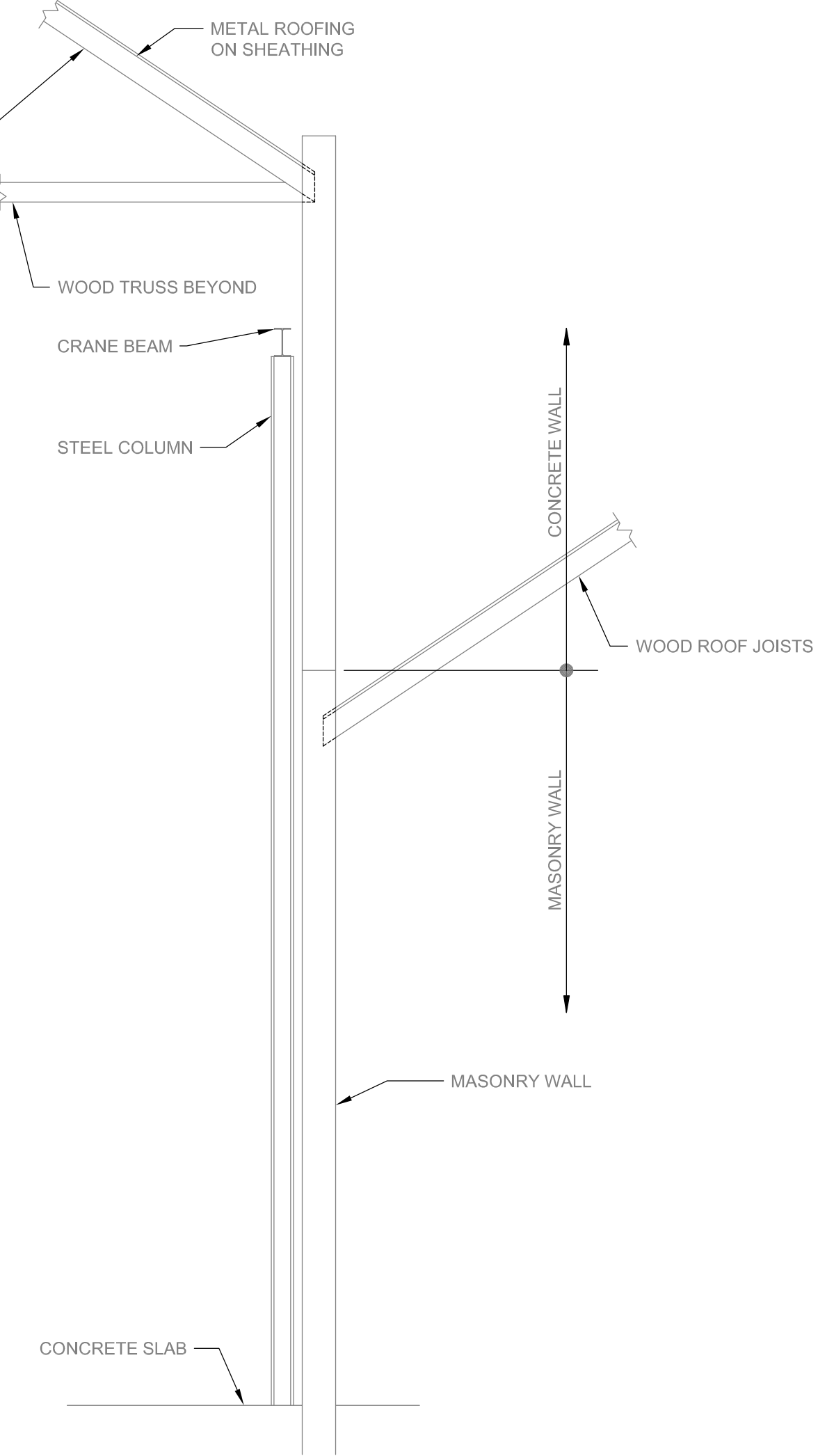
SECTION **F**
 SCALE: 1/4" = 1'-0"



SECTION **G**
 SCALE: 1/4" = 1'-0"



SECTION **H**
 SCALE: 1/4" = 1'-0"



SECTION **J**
 SCALE: 1/4" = 1'-0"