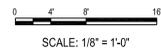
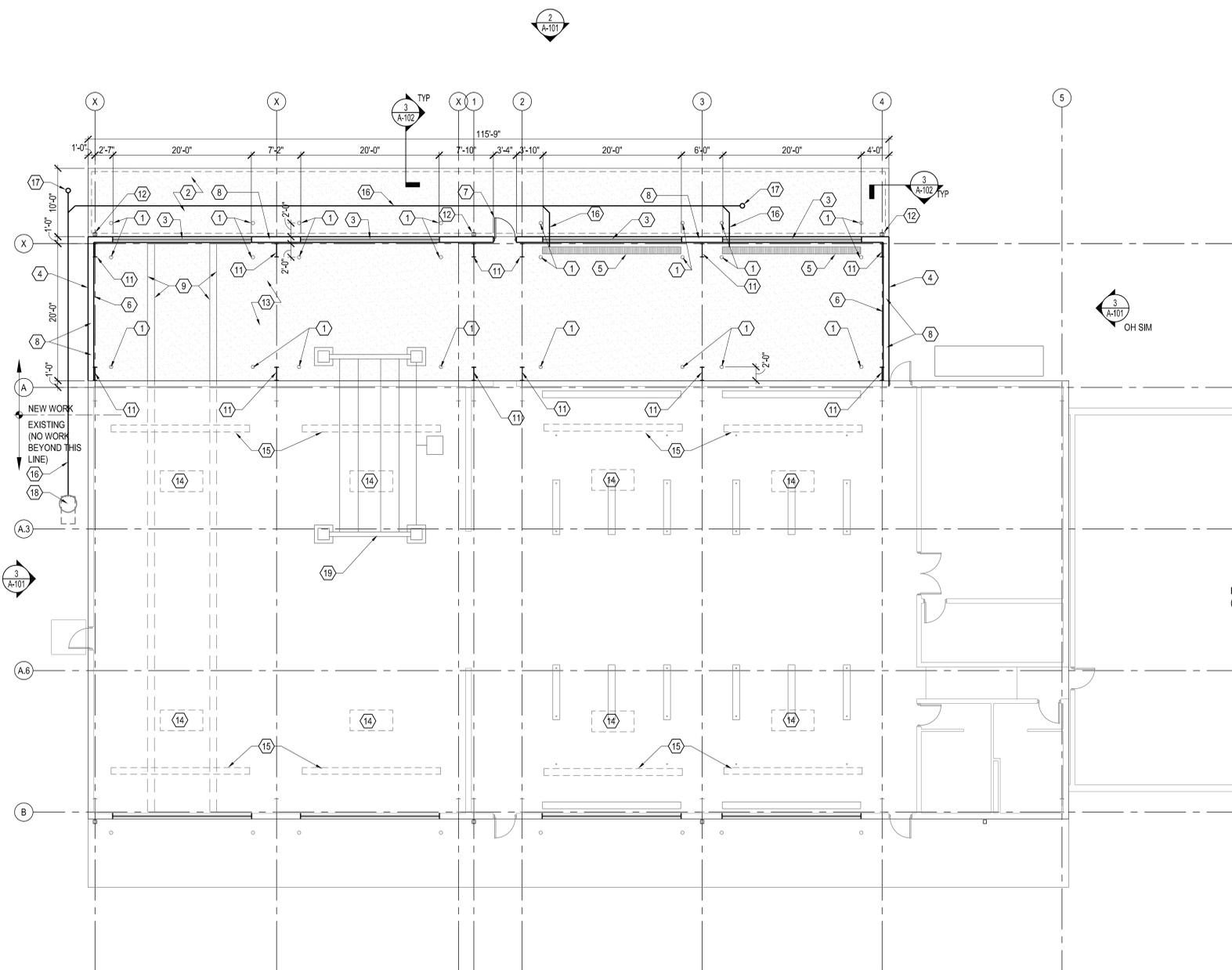


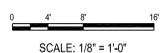
2 WEST ELEVATION
1/8"=1'-0"



3 SOUTH ELEVATION
1/8"=1'-0"



1 FLOOR PLAN
1/8"=1'-0"



- CONSTRUCTION NOTES:**
1. NEW BOLLARDS (SEE 4/AD101).
 2. NEW CONC. APRON (SEE 2/A-102 FOR DETAILS). SLOPE @ 1:12 AWAY FROM BUILDING.
 3. RELOCATED EXISTING 20'X20' OVERHEAD DOOR.
 4. NEW METAL WALL PANEL. MATCH EXISTING GAGE, CONFIGURATION AND COLOR. TIE INTO EXISTING METAL WALL PANEL.
 5. NEW TRENCH DRAIN (TIE INTO EXISTING DRAINAGE LINE).
 6. NEW 3/4" PLYWOOD INTERIOR WALL LINING ON 2X4 SUPPORT.
 7. RELOCATE EXISTING HOLLOW METAL DOOR AND HARDWARE INTO NEW HOLLOW METAL DOOR FRAME (SEE 3/AD101 FOR DOOR FRAME INFORMATION).
 8. NEW WALL INSULATION (MATCH EXISTING).
 9. NEW HEAVY DUTY STEEL RAILS IMBEDDED INTO NEW CONC. SLAB. MATCH EXISTING RAILS (SEE STRUCTURAL).
 10. NEW SKYLIGHTS (MATCH EXISTING).
 11. NEW MTL. BUILDING FRAME (SEE STRUCT).
 12. NEW PREFIN. MTL. GUTTER & DOWNSPOUT (MATCH EXISTING COLOR & FINISH).
 13. NEW CONC. SLAB (SEE STRUCT).
 14. EXISTING EXHAUST SYSTEM TO REMAIN.
 15. EXISTING OVERHEAD HEATERS TO REMAIN.
 16. TRENCH DRAIN PIPING TO BE 6" SCHEDULE 40 CAST IRON.
 17. PROVIDE CLEANOUTS TO GRADE AT EACH CHANGE OF DIRECTION OF PIPING.
 18. CONNECT & SLOPE TRENCH DRAIN PIPING TO EXISTING MAN HOLE.
 19. RELOCATED TRUCK LIFT, CONFIRM FINAL LOCATION WITH OWNER, MATCH EXISTING ANCHOR BOLT SIZE, LOCATION & EMBED DEPTH AT PEDESTALS - INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL ELECTRICAL CONNECTIONS & CONTROL STATION & ALL RELATED COMPONENTS AS REQUIRED.

- GENERAL NOTES:**
1. NO SNOW GUARDS TO BE INSTALLED AT NEW ROOF.
 2. MILL FINISH STRUCTURAL STEEL COMPONENTS.
 3. NO FINISH ON PLYWOOD. PLYWOOD TO BE 4x8' TYP.
 4. WITH BLANKET-TYPE INSULATION, A THERMAL SPACER (BREAK) SHALL SEPARATE THE ROOF SUPPORT MEMBER FROM THE ROOF PANEL. EXCEPT AT EACH CONCEALED STRUCTURAL FASTENER, THE SPACER SHALL BE OF MATERIAL HAVING A R-VALUE OF NOT LESS THAN 8, A DENSITY OF NOT LESS THAN 2 PCF AND, IF OF A COMBUSTIBLE MATERIAL, SHALL BE CLASSIFIED (ASTM E84) AS HAVING A FLAME SPREAD RATING NO GREATER THAN 25. THE BLANKET TYPE INSULATION, OF REQUIRED THICKNESS AND DENSITY, SHOULD BE PLACED OVER THE ROOF SUPPORT MEMBER. THE VAPOR MEMBRANE SHALL ALWAYS BE PLACED NEAREST THE INTERIOR OF THE BUILDING, WHETHER IT BE EXPOSED OR NON-EXPOSED. ALL JOINTS SHALL BE LAPPED, TAPED OR FOLDED AND STAPLED IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S STANDARD. THE VAPOR MEMBRANE SHALL HAVE A PERM RATING OF NOT MORE THAN 0.03, PROVIDING AN OVERALL R-VALUE OF R-30 FOR ROOF AND R-19 FOR EXTERIOR WALLS.

1 06/20/15 1/8"=1'-0" Description

1 06/20/15 1/8"=1'-0" Description

REGISTERED ARCHITECTS
C-98
ARKANSAS

REGISTERED ARCHITECT
MARK LITRELL
3881
07-20-2015
ARKANSAS

CONSTRUCTION DOCUMENTS

**CITY OF LITTLE ROCK
LANDFILL WORKSHOP EXPANSION**

CROMWELL

101 south spring street little rock, ar 72201
501.372.2900 cromwell.com

Issue Date 21-JULY-2015 Project Number 2015-019

Drawing Title
FLOOR PLAN & ELEVATIONS

Drawing Number
A-101

SECTION 312316

EXCAVATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Excavating for building volume below grade, footings, slabs-on-grade, and paving.

1.02 QUALITY ASSURANCE

- A. Engage and pay for a Geotechnical Consultant, approved by Architect Engineer for the following services:
 1. Perform applicable laboratory and field tests.
 2. Provide professional judgment in determining the limits of undercutting. This judgment shall be to the satisfaction of Architect Engineer.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PREPARATION

- A. Identify required lines, levels, contours, and datum locations.

3.02 EXCAVATING

- A. Excavate to accommodate new structures, pavements, and other construction operations.
- B. Notify Architect Engineer of unexpected subsurface conditions and discontinue affected Work in area until notified to resume work.
- C. Slope sides of excavations to comply with local codes and ordinances having jurisdiction. Shore and brace where sloping is not possible because of space restrictions or stability of material excavated.
 1. Maintain sides and slopes of excavations in safe condition until completion of backfilling.
- D. Comply with Occupational Safety and Health Administration (OSHA) Safety and Health Regulations for Construction, 29 CFR 1926, Subpart P - Excavations.
- E. Frost Protection: When freezing temperature may be expected, do not excavate to the full depth indicated unless the footings or slabs are to be poured immediately after the excavation has been completed. If placing of concrete is delayed, protect the bottoms of excavations from frost until concrete is placed.
- F. Do not interfere with 45 degree bearing splay of foundations.
- G. Hand trim excavations. Remove loose matter.
- J. Correct areas that are over-excavated and load-bearing surfaces that are disturbed.
- K. Grade top perimeter of excavation to prevent surface water from draining into excavation.
- L. Remove excavated material that is unsuitable for re-use from site.
- M. Remove excess excavated material from site.

3.03 PROOF-ROLLING UNDER THE BUILDING AND PAVEMENTS

- A. Following clearing, stripping, and/or excavating, all subgrade soils are to be proof-rolled under the supervision of Geotechnical Consultant with at least a 10 ton roller or similar mechanical compactor, to verify that any localized soft, compressible soils are detected. If soft or unstable soils are detected, Geotechnical Consultant, after obtaining approval from the Architect Engineer, shall determine the course of action.

3.04 PROTECTION

- A. Prevent displacement of banks and keep loose soil from falling into excavation; maintain soil stability.
- B. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.

END OF SECTION

SECTION 312323

FILL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Filling, backfilling, and compacting for building volume below grade, footings, slabs-on-grade, paving, site structures, utilities within the building, and lawns.
- B. Backfilling and compacting for utilities outside the building to utility main connections.
- C. Filling holes, pits, and excavations generated as a result of removal (demolition) operations.

1.02 DEFINITIONS

- A. Finish Grade Elevations: Indicated on drawings.
- B. Subgrade Elevations: Indicated on drawings.

1.03 REFERENCE STANDARDS

- A. ASTM D1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method; 2007.
- B. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN m/m³); 2009.
- C. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method; 2008.
- D. ASTM D2487 - Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System); 2010.
- E. ASTM D6938 - Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth); 2010.

1.04 SUBMITTALS

- A. Proposed Fill Material: For each soil type proposed for use, include the following:
 1. Classification per ASTM D 2487-00, Plasticity Index (PI), and Liquid Limit (LL).
 2. Proctor tests results.
- B. Fill Composition Test Reports: Results of laboratory tests on actual materials used.
- C. Compaction Density Test Reports.

1.05 QUALITY ASSURANCE

- A. Engage a Geotechnical Consultant, approved by Architect Engineer for the following services:
 1. Develop filling and compaction techniques best suitable to site conditions at the time of construction.
 2. Analyze soil materials proposed to be used as fill.
 3. Perform applicable laboratory and field tests.
- B. Perform all testing work in accordance with the following:
 1. Fill Properties:
 - a. Plasticity Index shall be determined as per ASTM D4318-00 "Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils".
 - b. Sieve Analysis shall be as per ASTM D422-63(1998) "Standard Test Method for Particle-Size Analysis of Soils".
 - c. Water Content Density Relationship shall be determined as per ASTM D 1557 "Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³) Modified Proctor Test".
 - d. Relative density shall be determined as per ASTM D4253-00 "Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table".
 2. Compacted fill that does not reach the required density may be rejected by Geotechnical Consultant with approval from Architect Engineer. Recompact the Work to the required density, or remove the material in the area(s) affected, and replace removed material with fill compacted to the required density.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. When necessary, store materials on site in advance of need.
- B. Review size of earthmoving equipment with Geotechnical Consultant. Ensure that the silty clay soils on site will not lose strength during earthmoving operations.

PART 2 PRODUCTS

2.01 FILL MATERIALS

- A. General Fill: Imported borrow or local borrow capable of forming a stable embankment and free of roots and other unsatisfactory debris.
 1. Do not use with 5 feet of building or pavement.
 2. Free of lumps larger than 3 inches, rocks larger than 2 inches, and debris.
- B. Structural Fill: Imported borrow or local borrow.
 1. Graded.
 2. Free of debris and rocks larger than 3.
 3. Conforming to ASTM D2487 Group Symbol GC, SC and CL.
 4. Imported borrow requires Plasticity Index less than 16, Liquid Limit less than 40. Local borrow may be clayey sand/clayey gravel with a maximum of 35 percent passing the No. 200 sieve.
- C. Concrete for Fill: Compressive strength of 3000 psi.
- D. Granular Fill: Graded from 1/4 inch to 1-1/2 inch.
- E. Topsoil: Friable loam; imported borrow or local borrow.
 1. Free of roots, rocks larger than 1 inch, subsoil, debris, large weeds and foreign matter.

2.02 SOURCE QUALITY CONTROL

- A. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.
- B. If tests indicate materials do not meet specified requirements, change material and retest.
- C. Provide materials of each type from same source throughout the Work.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that survey bench marks and intended elevations for the Work are as indicated.
- B. Identify required lines, levels, contours, and datum locations.

3.02 PREPARATION

- A. Scarify subgrade surface to a depth of 6 inches to identify soft spots.
- B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with structural fill.
- C. Compact subgrade to density equal to or greater than requirements for subsequent fill material.
- D. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

3.03 FILLING

- A. Fill to contours and elevations indicated using unfrozen materials.
- B. Employ a placement method that does not disturb or damage other work.
- C. Maintain optimum moisture content of fill materials to attain required compaction density.
 1. Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to specified density.
 2. Soil material that has been removed because it is too wet to permit compaction may be stockpiled or spread and allowed to dry. Assist drying by discing, harrowing or pulverizing until moisture content is reduced to a satisfactory value.
 3. Correct areas that are over-excavated.
- D. Correct areas that are over-excavated.
 1. Load-bearing foundation surfaces: Fill with concrete.
 2. Under pavement, slabs-on-grade, walks and similar construction: Use structural fill, flush to required elevation, compacted to minimum 95 percent of maximum dry density within minus 2% to plus 3% of optimum moisture content.
 3. Other areas: Use general fill, flush to required elevation, compacted to minimum 90 percent of maximum dry density.
- E. Compaction Density Unless Otherwise Specified or Indicated:
 1. Under pavement, slabs-on-grade, walks and similar construction: Use structural fill, flush to required elevation, compacted to minimum 95 percent of maximum dry density within minus 2% to plus 3% of optimum moisture content.
 2. Other areas: Use general fill, flush to required elevation, compacted to minimum 90 percent of maximum dry density.
- F. Reshape and re-compact fills subjected to vehicular traffic.

3.04 FIELD QUALITY CONTROL

- A. Perform compaction density testing on compacted fill in accordance with ASTM D1556, ASTM D2167, or ASTM D6938.
- C. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D1557 ("modified Proctor").
- D. If tests indicate work does not meet specified requirements, remove work, replace and retest.
- E. Frequency of Tests (Structural fill or Aggregate base course): One for each 2500 sq. ft. of lift.

3.05 PROTECTION AND MAINTENANCE

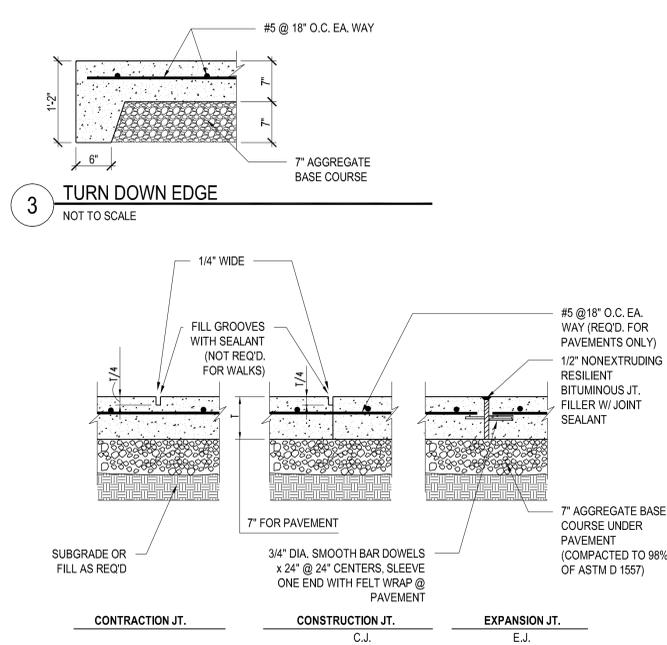
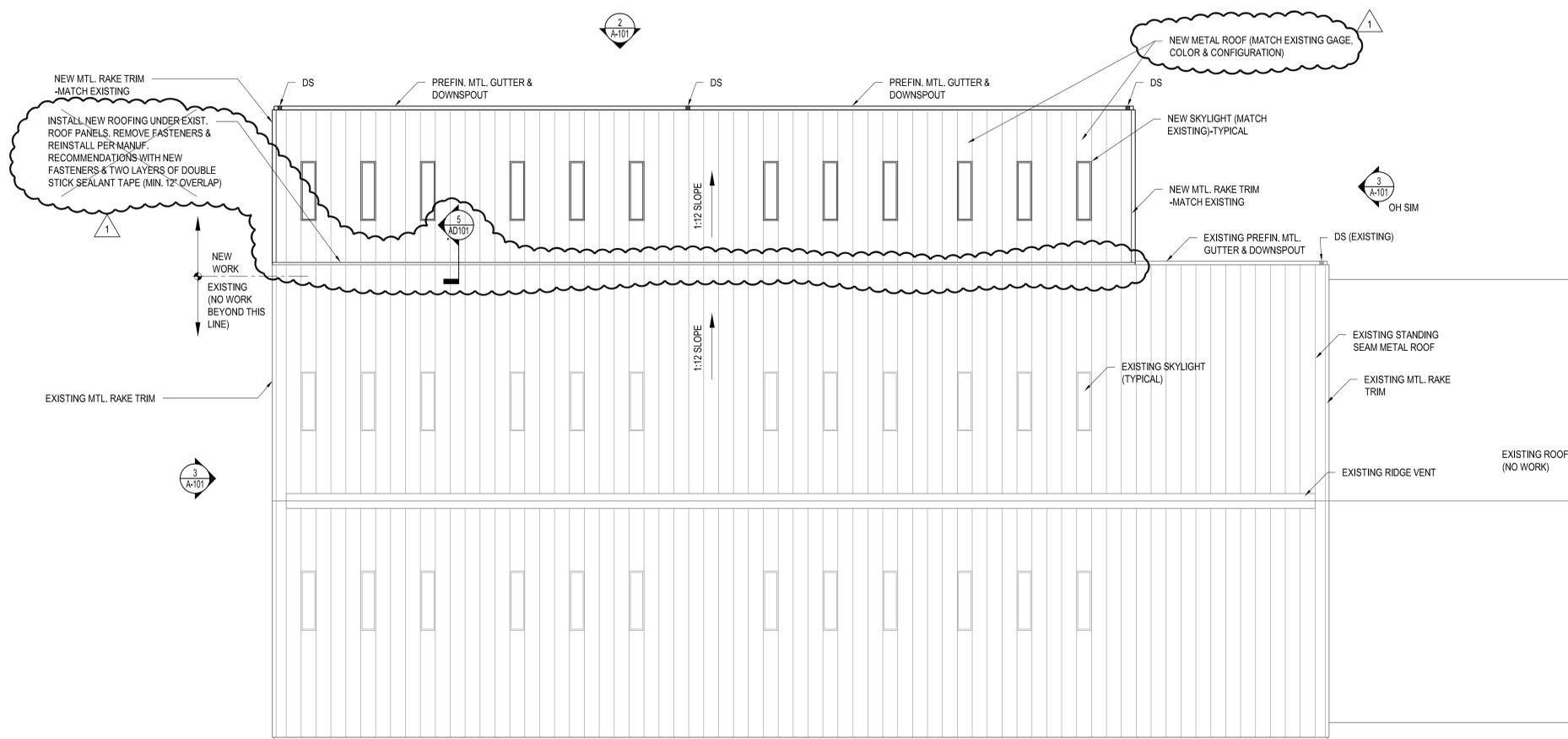
- A. Protection Of Graded Areas: Protect newly graded areas from traffic, erosion, and effects of ponding of water. Keep free of trash and debris.
 1. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
 2. Provide and maintain positive surface drainage to prevent ponding and subsequent saturation of excavation or fill materials. Saturated soils shall be removed and replaced or shall be dried to specified moisture content and recompact without additional charge to Owner.
- B. Reconditioning Compacted And/or Excavated Areas: When completed areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, and compact to required density prior to further construction. Failure of the disturbed soil to reach the required density, as evidenced by density tests, is cause for rejection by Geotechnical Consultant after obtaining approval from Architect Engineer of the work in the affected area(s). Remove and replace soils which cannot recompact to the required density.
- C. Settling: Where settling is measurable or observable at fill areas during general project warranty period, remove surface (pavement, lawn or other finish), add backfill material, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.06 CLEANING

- A. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.

END OF SECTION

4 CIVIL SPECIFICATIONS

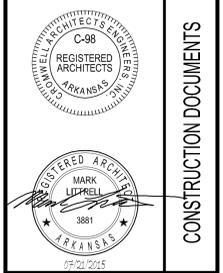


- NOTES:
 1) PLACE EXPANSION JOINT @ BUILDING FOUNDATION EDGE
 2) SPACE CONSTRUCTION JOINT @ 15'-0" O.C. MAX

2 CONCRETE JOINT DETAILS
NOT TO SCALE

1 ROOF PLAN
1/8"=1'-0"
SCALE: 1/8" = 1'-0"

1	18-07-2015	ADDITIONAL
		DESCRIPTION



CONSTRUCTION DOCUMENTS

CITY OF LITTLE ROCK LANDFILL WORKSHOP EXPANSION

CROMWELL

101 south spring street little rock, ar 72201
501.372.2900 cromwell.com

Issue Date: 21-JULY-2015 Project Number: 2015-019

Drawing Title: **ROOF PLAN, CIVIL DETAILS & CIVIL SPECS**

Drawing Number: **A-102**

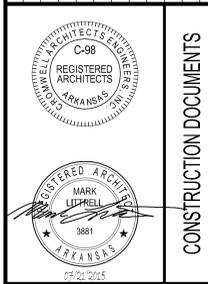
CITY OF LITTLE ROCK LANDFILL WORKSHOP ADDITION

10805 IRONTON CUTOFF RD, LITTLE ROCK, AR

DRAWING NO.	TITLE	REVISION NO.	DATE
GENERAL			
G-001	TITLE SHEET AND INDEX	08-07-2015	07-21-2015
STRUCTURAL			
S-001	GENERAL NOTES		07-21-2015
S-002	WIND UPLIFT PLAN		07-21-2015
S-101	FOUNDATION AND SLAB PLAN	08-07-2015	07-21-2015
S-301	FOUNDATION SECTIONS AND DETAILS		07-21-2015
S-302	FOUNDATION SECTIONS AND DETAILS		07-21-2015
ARCHITECTURAL			
AD101	DEMOLITION PLAN & NEW CONST. DETAILS	08-07-2015	07-21-2015
A-101	FLOOR PLAN & ELEVATIONS	08-07-2015	07-21-2015
A-102	ROOF PLAN, CIVIL DETAILS & CIVIL SPECS	08-07-2015	07-21-2015
ELECTRICAL			
E-101	ELECTRICAL PLAN		07-21-2015

CONSTRUCTION DATA	
PROJECT NAME:	LANDFILL WORKSHOP EXPANSION FOR THE CITY OF LITTLE ROCK
ADDRESS:	10805 IRONTON CUTOFF RD, LITTLE ROCK, AR
BUILDING AREA:	OFFICE AREA - FIRST FLOOR: NO WORK & SEPARATED FROM WORKSHOP WORKSHOP FIRST FLOOR ORIGINAL: 9,072 GROSS SF WORKSHOP FIRST FLOOR ADDITION: 2,431 GROSS SF WORKSHOP TOTAL SQUARE FOOTAGE: 11,503 GROSS SF (17,500 SF ALLOWED)
OCCUPANCY:	STORAGE - S1
CONSTRUCTION TYPE:	III(B), UNPROTECTED & UNSPRINKLERED.
OWNER:	CITY OF LITTLE ROCK
ALL REQUIRED TESTING AND INSPECTION WILL BE PAID FOR BY THE CONTRACTOR.	

No.	Date	Description
1	08/21/2015	ADDITION 001



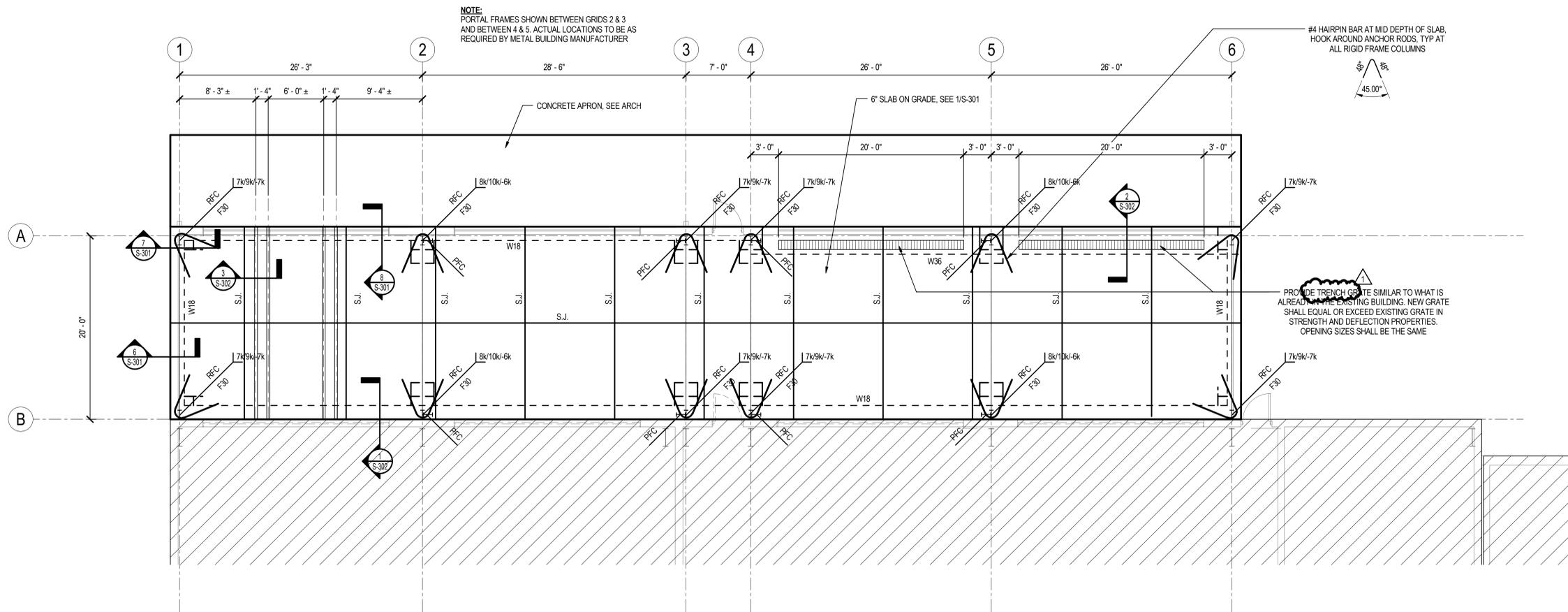
CITY OF LITTLE ROCK
LANDFILL WORKSHOP EXPANSION



CROMWELL	
101 south spring street little rock, ar 72201 501.372.2900 cromwell.com	
Issue Date	Project Number
21-JULY-2015	2015-049
Drawing Title	
TITLE SHEET AND INDEX	
Drawing Number	
G-101	

I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention Code for the State of Arkansas.

07 / 21 / 2015
 Date
 MARK LITRELL, AIA
 Architect
 CROMWELL ARCHITECTS ENGINEERS, INC.
 Architects Engineers
 101 S. Spring Street
 Little Rock, Arkansas



NOTE:
 PORTAL FRAMES SHOWN BETWEEN GRIDS 2 & 3
 AND BETWEEN 4 & 5. ACTUAL LOCATIONS TO BE AS
 REQUIRED BY METAL BUILDING MANUFACTURER

#4 HAIRPIN BAR AT MID DEPTH OF SLAB,
 HOOK AROUND ANCHOR RODS. TYP AT
 ALL RIGID FRAME COLUMNS

PROVIDE TRENCH GRATE SIMILAR TO WHAT IS
 ALREADY IN THE EXISTING BUILDING. NEW GRATE
 SHALL EQUAL OR EXCEED EXISTING GRATE IN
 STRENGTH AND DEFLECTION PROPERTIES.
 OPENING SIZES SHALL BE THE SAME

1 FOUNDATION AND FIRST FLOOR SLAB PLAN
 3/16" = 1'-0"



FOUNDATION LEGEND

- INDICATES METAL BUILDING FRAMING
- RFC = RIGID FRAME COLUMN
- PFC = PORTAL FRAME COLUMN
- INDICATES MAX. UNFACTORED COLUMN LOAD
- INDICATES MAX. UNFACTORED FOOTING DESIGN LOAD.
- 100k/00k/00k ← INDICATES NET MAX. UNFACTORED COLUMN UPLIFT
- INDICATES FOOTING SIZE (SEE DETAILS)
- INDICATES METAL BUILDING STEEL COLUMN
- INDICATES COLUMN FOOTING.
- INDICATES CONTINUOUS FOOTING.
- INDICATES CONTINUOUS FOOTING SIZE (SEE DETAILS)

CROMWELL ARCHITECTS ENGINEERS, INC.
 STATE OF ARKANSAS ENGINEER
 No. 13222
 07/21/2015

CONSTRUCTION DOCUMENTS

CITY OF LITTLE ROCK
LANDFILL WORKSHOP EXPANSION



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Issue Date: 21-JULY-2015 Project Number: 2015-049

FOUNDATION AND SLAB PLAN

Drawing Number: **S-101**