



# GEO WALL



"BUILT FROM THE GROUND UP"

# FOX DEN APARTMENTS WAUKESHA, WI

RETAINING WALL (RW) CONSTRUCTION ADDRESSED BY THESE DRAWINGS ARE PART OF A SIGNIFICANTLY LARGER PROJECT BEING BUILT BY THE GENERAL CONTRACTOR, WHO HAS SEPARATELY RETAINED AN EARTHWORK GRADING CONTRACTOR TO ASSIST IN DEVELOPING THE SITE FOR THE OWNER. THE OWNER HAS RETAINED A PROJECT GEOTECHNICAL ENGINEER TO ADVISE IT ON MATTERS RELATIVE TO CONSTRUCTION AND WHO WILL BE PROVIDING QUALITY ASSURANCE TESTING AND OBSERVATION OF THE RW CONSTRUCTION WORK FOR THE OWNER. OUTLINED BELOW IS A BRIEF SUMMARY OF THE RESPONSIBILITIES OF EACH OF THE PARTIES REQUIRED BY THE RW CONSTRUCTION, AS OUTLINED IN THESE DRAWINGS, TO ENSURE A QUALITY CONSTRUCTION PROJECT:

- A. GENERAL/EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR OVERALL SITE GRADING AND STORM WATER CONTROL, BEFORE, DURING, AND AFTER RW CONSTRUCTION, UNTIL THE PERMANENT PAVING AND STORM WATER DRAINAGE CONTROLS ARE ALL IN PLACE AND OPERATIONAL. DAMAGE TO EXISTING RW CONSTRUCTION BY POORLY CONTROLLED STORM WATER DRAINAGE SHALL NOT BE THE RESPONSIBILITIES THE RW CONTRACTOR OR RW DESIGNER.
- B. GENERAL/EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL, BEFORE, DURING, AND AFTER RW CONSTRUCTION.
- C. OWNER AND/OR GENERAL CONTRACTOR SHALL PROVIDE SURVEYING SERVICES SUFFICIENT TO LOCATE THE WALL, HORIZONTALLY AND VERTICALLY ON THE SITE FOR CONSTRUCTION PURPOSES.
- D. GENERAL/EARTHWORK CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A BEARING SURFACE AT THE BOTTOM RETAINING WALL ELEVATION THAT MEETS THE BEARING REQUIREMENTS SHOWN ON THESE DRAWINGS. THE BEARING SURFACE AND ALL AREAS INTO WHICH THE RW CONTRACTOR WILL PLACE AND COMPACT FILL MUST BE CLEARED, GRUBBED AND ALL DELETERIOUS SOILS AND/OR ORGANIC MATTER REMOVED TO PROJECT GEOTECHNICAL ENGINEER'S SATISFACTION, AS PROVIDED IN THEIR DAILY PROJECT REPORTING.
- E. THE OWNER'S PROJECT GEOTECHNICAL ENGINEER SHALL OBSERVE AND PROVIDE WRITTEN APPROVAL THAT THE "ALLOWABLE" BEARING CAPACITY AT THE BOTTOM RETAINING WALL ELEVATION AND WITHIN THE ENTIRE REINFORCED (GEOGRID) ZONE IN EACH LOCATION MEETS OR EXCEEDS THE MINIMUM REQUIREMENTS SHOWN ON THESE DRAWINGS. THE RW CONTRACTOR WILL NOT BEGIN CONSTRUCTION WITHOUT THE APPROVAL.
- F. THE OWNER AND/OR GENERAL CONTRACTOR SHALL PROVIDE THE FILL SOILS TO THE RW CONTRACTOR TO UTILIZE FOR RW CONSTRUCTION. THOSE FILL SOILS SHOULD BE TESTED PRIOR TO STARTING RW CONSTRUCTION, AND PERIODICALLY THROUGHOUT THE PROJECT, TO ENSURE THEY MEET THE SPECIFICATION OUTLINED HEREIN. RW CONTRACTOR WILL NOTIFY THE OWNER'S GEOTECHNICAL ENGINEER AND/OR THE GENERAL/EARTHWORK CONTRACTOR WHEN A CHANGE IN FILL SOIL APPEARANCE, CONSISTENCY, OR GRADATION LOOKS TO BE DETRIMENTAL, OR HAS REASON TO BELIEVE THE SOIL BEING PROVIDED DOES NOT MEET THE PROJECT SPECIFICATIONS. HOWEVER, THE OWNER'S GEOTECHNICAL ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING WHETHER THE FILL MATERIALS MEET AND ARE PLACED ACCORDING TO THE SPECIFICATIONS IN THESE DRAWINGS.
- G. THE OWNER AND/OR PROJECT GEOTECHNICAL ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING SUFFICIENT DATA THROUGHOUT THE RW CONSTRUCTION TO SATISFY THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY TO SECURE APPROVAL OF THE RETAINING WALL CONSTRUCTION AND ULTIMATELY THE "CERTIFICATE OF OCCUPANCY" FOR THE BUILDING ITSELF.

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| RW-3.0  | WALL LOCATION PLAN VIEW |
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| RW-6.0  | CONSTRUCTION DETAILS    |

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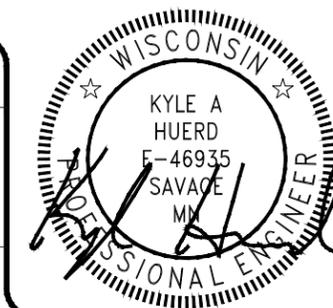


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|   |                       |                  |                     |
|---|-----------------------|------------------|---------------------|
| Title: TITLE SHEET  |                       |                  |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI<br>SEGMENTAL RETAINING WALL PLANS |                       |                  |                     |
| Project No:<br>21CMC017   | Date:<br>15 JULY 2021 | Scale:<br>N.T.S. | Sheet No:<br>RW-1.0 |



1.0 MATERIALS

1.1 BACKFILL SOILS

1.1.1 REINFORCED FILL 1 MATERIALS SHALL BE APPROVED IN WRITING BY GEOWALL DESIGNS AND THE OWNER'S REPRESENTATIVE AND SHALL MEET THE STRENGTH REQUIREMENTS AS DEFINED IN SECTION 6.0. THE REINFORCED BACKFILL MATERIAL SHALL MEET THE FOLLOWING GRADATION:

| SIEVE SIZE | PERCENT PASSING |
|------------|-----------------|
| 2"         | 100%            |
| 3/4"       | 75-100%         |
| No. 4      | 30-100%         |
| No. 40     | 0-60%           |
| No. 200    | 0-25%           |

PLASTICITY INDEX (PI) LESS THAN 10

THE PH SHALL BE BETWEEN 3 AND 9.

1.1.2 REINFORCED BACKFILL AND RETAINED SOIL/FILL MATERIALS SHALL BE FREE OF EXCESS MOISTURE, ROOTS, MUCK, SOD, SNOW, FROZEN LUMPS, ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS. ALL ROCK PARTICLES AND HARD EARTH CLODS SHALL BE LESS THAN FOUR INCHES IN THE LONGEST DIMENSION. REINFORCED BACKFILL MATERIALS WHICH DO NOT MEET THIS CRITERIA SHALL BE CONSIDERED UNSUITABLE AND REMOVED.

1.1.3 DRAINAGE FILL SHALL CONSIST OF CLEAN CRUSHED STONE OR CRUSHED GRAVEL MEETING THE FOLLOWING GRADATION TESTED IN ACCORDANCE WITH ASTM C-136:

| SIEVE SIZE | PERCENT PASSING |
|------------|-----------------|
| 1.5"       | 100%            |
| 1.0"       | 95-100%         |
| 1/2"       | 25-60%          |
| No. 4      | 0-10%           |
| No. 8      | 0-5%            |

LOSS BY WASHING 2.0% MAX

1.1.4 LEVELING PAD SHALL CONSIST OF DENSE-GRADED OR WELL-GRADED CRUSHED STONE OR CRUSHED GRAVEL.

1.2 GEOGRID REINFORCING TYPE SHALL BE AS SHOWN OR APPROVED EQUAL. THE GEOGRID MANUFACTURER SHALL PROVIDE A MATERIAL CERTIFICATION THAT THE PRODUCT SHIPPED TO THE PROJECT MEETS OR EXCEEDS THE STRENGTHS USED IN THE DESIGN.

1.3 BLOCK FACING SHALL BE COUNTY INTEGRITY, 8" UNITS. UNITS SHALL MEET ASTM C1372, EXCEPT MANUFACTURED CONCRETE VERTICAL DIMENSIONAL TOLERANCE SHALL BE +/- 1/16". THE MINIMUM COMPRESSIVE STRENGTH SHALL BE 4,500 PSI AND MAXIMUM ABSORPTION SHALL BE 5% WHEN TESTED IN ACCORDANCE WITH ASTM C140.

1.4 FILTER FABRIC SHALL BE 4 oz/sy (MIN.) NON-WOVEN, NEEDLE PUNCHED, POLYPROPYLENE GEOTEXTILE - ERS 400N OR EQUAL.

1.5 DRAIN PIPE SHALL BE 4" DIAMETER FLEX-DRAIN WITHOUT FILTER SOCK. FLEX-DRAIN AND PIPE FITTINGS SHALL MEET ASTM F405-05, EXCEPT ELONGATION REQUIREMENT SHALL BE WAIVED DUE TO FLEX-DRAIN EXPANDABLE DESIGN. FLEX-DRAIN AND PIPE FITTINGS SHALL MEET CPPA 100-97.

2.0 TECHNICAL REQUIREMENTS

2.1 THE OWNER'S REPRESENTATIVE OR GRADING CONTRACTOR SHALL SUBMIT TO GEOWALL DESIGNS THE GRADATION AND STRENGTH PARAMETERS OF THE REINFORCED BACKFILL MATERIAL, RETAINED SOIL/FILL AND FOUNDATION SOIL, FOR APPROVAL, PRIOR TO PROCEEDING WITH CONSTRUCTION. WORK SHALL NOT PROCEED UNTIL THIS SUBMITTAL IS APPROVED BY GEOWALL DESIGNS.

2.2 PRIOR TO CONSTRUCTION OF THE WALLS, THE GRADING CONTRACTOR SHALL CLEAR AND GRUB THE REINFORCED BACKFILL ZONE AREA, REMOVING TOP SOILS, BRUSH, SOD OR OTHER ORGANIC OR DELETERIOUS MATERIALS. ANY UNSUITABLE SOILS SHALL BE OVER-EXCAVATED, REPLACED AND COMPACTED WITH REINFORCED BACKFILL MATERIAL TO PROJECT SPECIFICATIONS OR OTHERWISE DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER.

2.3 THE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE SITE HAS BEEN PROPERLY PREPARED AND THE DESIGN PARAMETERS IN SECTION 6.0 ARE APPROPRIATE PRIOR TO FILL PLACEMENT. A WRITTEN CONFIRMATION SHALL BE PROVIDED TO GEOWALL DESIGNS PRIOR TO FILL PLACEMENT.

2.4 FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 10" (INCHES) IN UNCOMPACTED THICKNESS FOR HEAVY COMPACTION EQUIPMENT. FOR ZONES WHERE COMPACTION IS ACCOMPLISHED WITH HAND OPERATED EQUIPMENT, FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6" (INCHES) IN UNCOMPACTED THICKNESS. ONLY HAND-OPERATED EQUIPMENT SHALL BE ALLOWED WITHIN THREE FEET OF THE BACK FACE OF WALL FACING.

2.5 FILL MATERIALS SHALL BE PLACED FROM THE BACK OF THE FACING UNITS TOWARDS THE ENDS OF THE GEOGRID TO ENSURE FURTHER TENSIONING.

2.6 TESTING METHODS AND VERIFICATION OF FILL SHALL BE COMPACTED AS SPECIFIED BY PROJECT SPECIFICATIONS OR TO A MINIMUM 95% (PERCENT) OF THE MAXIMUM DRY DENSITY AND WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH STANDARD PROCTOR (ASTM D698). MATERIAL SPECIFICATIONS AND COMPACTION TESTING IS THE RESPONSIBILITY OF THE OWNER'S REPRESENTATIVE. COMPACTION OF CRUSHED STONE BACKFILL SHALL BE FIELD VERIFIED BY THE PROJECT GEOTECHNICAL ENGINEER USING MATERIAL APPROPRIATE METHODS OF VERIFICATION.

2.6.1 WHERE COMPACTION OF STONE BACKFILL CANNOT BE VERIFIED USING IN-SITU FIELD DENSITY TEST METHODS, THE FILL SHALL BE COMPACTED USING APPROPRIATE VIBRATORY EQUIPMENT AS APPROVED BY THE SITE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL MAKE A SUFFICIENT NUMBER OF PASSES WITH APPROVED ROLLING EQUIPMENT UNTIL THE SURFACE SHOWS NO VISIBLE SIGN OF FURTHER CONSOLIDATION. THE SITE GEOTECHNICAL ENGINEER SHALL APPROVE MEANS AND METHODS AND VERIFY COMPACTION.

2.7 WHERE REQUIRED, CAP UNITS SHALL BE PERMANENTLY SECURED TO THE BLOCK UNITS USING AN OUTDOOR CONSTRUCTION ADHESIVE FOR CONCRETE MASONRY OR HARDSCAPES SUCH AS LIQUID NAILS (OR EQUIVALENT).

2.8 AN APPROVED SET OF CONSTRUCTION DRAWINGS AND CONTRACT SPECIFICATIONS SHALL BE ON-SITE AT ALL TIMES, DURING CONSTRUCTION OF THE RETAINING WALLS.

3.0 GEOGRID PLACEMENT

3.1 GEOGRID SHALL BE PLACED AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS.

3.2 GEOGRID LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. GEOGRID LENGTH IS MEASURED FROM THE FRONT FACE OF WALL UNITS TO THE TAIL OF GEOGRID.

3.2.1 GEOGRID REINFORCEMENT SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTH(S).

3.3 PRIOR TO PLACING FILL, THE GEOGRID MATERIALS SHALL BE PLACED IN BETWEEN BLOCK COURSES. REMOVE GEOGRID SLACK AND ANCHOR GEOGRID PRIOR TO FILL PLACEMENT AND COMPACTION.

3.4 CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM FILL THICKNESS OF SIX INCHES IS REQUIRED FOR OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT DISPLACING THE FILL AND/OR THE GEOGRID.

3.5 GEOGRID SHALL BE ROLLED OUT WITH THE LONG AXIS OF THE APERTURES (MACHINE DIRECTION) PERPENDICULAR TO THE WALL FACE.

3.6 A MINIMUM OF 3 INCHES OF FILL MATERIAL SHALL BE REQUIRED BETWEEN OVERLAPPING LAYERS OF GEOGRID AND FILTER FABRIC, UNLESS OTHERWISE SHOWN.

4.0 CHANGES

4.1 NO CHANGES TO THE GEOGRID LAYOUT, INCLUDING, BUT NOT LIMITED TO, LENGTH, GEOGRID TYPE, OR ELEVATION, SHALL BE MADE WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF GEOWALL DESIGNS.

4.2 NO CHANGES TO THE WALL FACING TYPE SHALL BE MADE WITHOUT THE EXPRESSED PRIOR WRITTEN CONSENT OF GEOWALL DESIGNS.

5.0 DRAINAGE

5.1 AT THE END OF EACH WORK DAY, BACKFILL SURFACE SHALL BE COMPACTED WITH A SMOOTH PLATE COMPACTOR TO MINIMIZE PONDING OF WATER AND SATURATION OF THE BACKFILL.

5.2 PERMANENT AND TEMPORARY SURFACE WATER DIVERSION SHALL BE AS REQUIRED AND PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. SURFACE WATER SHALL BE DIVERTED AWAY FROM THE REINFORCED FILL ZONE AND WALL FACE DURING WALL CONSTRUCTION OR AT THE END OF EACH WORK DAY.

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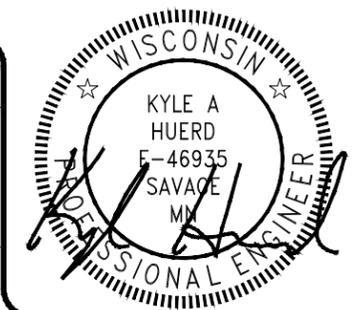


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| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                  |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                  |                     |
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**6.0 DESIGN PARAMETERS**

6.1 DESIGN OF THE REINFORCED SOIL STRUCTURE IS BASED ON THE FOLLOWING EFFECTIVE PARAMETERS:

| ZONE              | DESCRIPTION     | φ   | C'    | γ       |
|-------------------|-----------------|-----|-------|---------|
| REINFORCED SOIL 1 | SILTY SAND - SM | 30° | 0 PSF | 120 PCF |
| RETAINED SOIL 1   | SILTY SAND - SM | 30° | 0 PSF | 120 PCF |
| RETAINED SOIL 2   | CRUSHED STONE   | 38° | 0 PSF | 110 PCF |
| FOUNDATION SOIL 1 | SILTY SAND - SM | 30° | 0 PSF | 120 PCF |

6.1.1 DESIGN METHODOLOGY: NCMA GUIDELINES, THIRD EDITION

6.2 FACTORS OF SAFETY

6.2.1 INTERNAL STABILITY:

STATIC

MIN. FACTOR OF SAFETY FOR GEOGRID PULLOUT = 1.5  
 MIN. FACTOR OF SAFETY FOR BLOCK CONNECTION = 1.5  
 MIN. FACTOR OF SAFETY FOR FACING STABILITY = 1.5  
 MIN. FACTOR OF SAFETY FOR SLIDING AT LOWEST GEOGRID = 1.5  
  
 SOIL-GEOGRID INTERACTION COEFFICIENT = 0.8  
 PERCENT COVERAGE OF GEOGRID = 100%

6.2.2 EXTERNAL STABILITY:

STATIC

MIN. FACTOR OF SAFETY FOR OVERTURNING (GRAVITY) = 1.5  
 MIN. FACTOR OF SAFETY FOR OVERTURNING (MSE) = 2.0  
 MIN. FACTOR OF SAFETY FOR SLIDING = 1.5

6.2.3 OVERALL / GLOBAL STABILITY:

STATIC

MIN. FACTOR OF SAFETY FOR GLOBAL STABILITY = 1.3

SEISMIC

MIN. FACTORS OF SAFETY ARE 75% OF STATIC CONDITIONS  
 1-SECOND DESIGN PEAK GROUND ACCELERATION = N/A

6.3 SURCHARGE LOADING

LIVE LOAD (LANDSCAPE AREAS) = 100 PSF  
 LIVE LOAD (ROAD/PARKING AREAS) = 150 PSF

6.4 MAXIMUM APPLIED BEARING PRESSURE = (SEE ELEVATION VIEWS)

6.5 FENCE LOADING

WALLS ARE NOT DESIGNED FOR ANY CONCENTRATED FENCE LOADS. SLEEVE-ITS SHALL BE USED WHERE POSTS CANNOT BE PLACED A MINIMUM OF 3.00' FROM WALL FACE.

6.6 PHREATIC WATER SURFACE OR HYDROSTATIC WATER PRESSURE

THE DESIGN DOES NOT CONSIDER PHREATIC WATER SURFACE OR HYDROSTATIC WATER PRESSURE AND ASSUME WATER IS SUFFICIENTLY BELOW BOTTOM OF STRUCTURE SO AS NOT TO INFLUENCE STRUCTURE STABILITY.

6.7 WIND LOADING (ASD)

WIND LOAD HAS NOT BEEN EVALUATED IN THE DESIGN OF THE PROPOSED REINFORCED SOIL (MECHANICALLY STABILIZED EARTH) STRUCTURE.

**7.0 SPECIAL PROVISIONS**

7.1 THE DESIGN PRESENTED HEREIN IS BASED ON SOIL PARAMETERS, FOUNDATION CONDITIONS, GROUNDWATER CONDITIONS, AND LOADINGS STATED IN SECTION 6.0., AND INTERPOLATED FROM INFORMATION PROVIDED BY OTHERS. GEOTECHNICAL DATA IS INTERPOLATED FROM REPORT PREPARED BY GILES ENGINEERING ASSOCIATES, INC., REPORT #: 1G-2009018, DATED 11/4/2020.

7.2 WALL ELEVATION VIEWS AND LOCATIONS AND GEOMETRY OF EXISTING STRUCTURES AND GRADE ABOVE AND BELOW THE WALLS MUST BE VERIFIED BY THE CONTRACTOR, TO MATCH ELEVATIONS SHOWN IN THE CONTRACT DOCUMENTS, PRIOR TO CONSTRUCTION.

7.3 GEOWALL DESIGNS ASSUMES NO LIABILITY FOR INFORMATION SUPPLIED BY OTHERS SUCH AS GEOTECHNICAL REPORT, SITE PLAN, AND WATER ELEVATIONS.

7.4 THE SOIL DESIGN PARAMETERS STATED IN SECTION 6.0 SHALL BE VERIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. WRITTEN VERIFICATION OF DESIGN PARAMETERS SHALL BE SUBMITTED TO GEOWALL DESIGNS AND THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH CONSTRUCTION.

7.5 IF ANY ROCK FORMATIONS AND/OR GROUNDWATER ARE ENCOUNTERED DURING THE CONSTRUCTION OF THIS WALL, IMMEDIATELY CONTACT GEOWALL DESIGNS AT 952-303-4190 AND THE OWNER'S REPRESENTATIVE.

7.6 ANY REVISIONS TO DESIGN PARAMETERS STATED IN SECTION 6.0 OR STRUCTURE GEOMETRY SHALL REQUIRE DESIGN MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

7.7 ALL PIPES AND UTILITIES WITHIN 100 FEET OF THE RETAINING WALL MUST BE CONSTRUCTED WITH WATER TIGHT JOINTS.

7.8 THE SITE GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR EVALUATING TOTAL AND DIFFERENTIAL SETTLEMENTS.

7.9 THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE SELECTION OF PERMANENT EROSION PROTECTION AND PERMANENT VEGETATION FOR SLOPES LOCATED ABOVE OR BELOW THE PROPOSED RETAINING WALL(S).

**8.0 QUALITY ASSURANCE**

8.1 DUTIES OF THE SPECIAL INSPECTOR:

8.1.1 THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK REQUIRING SPECIAL INSPECTION FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

8.1.2 THE SPECIAL INSPECTOR SHALL FURNISH REPORTS TO BE KEPT AT THE SITE FOR USE BY THE BUILDING OFFICIAL, THE CONTRACTOR, AND THE ENGINEER OF RECORD. IF SPECIAL INSPECTION IS PROVIDED BY ANYONE OTHER THAN THE ENGINEER OF RECORD, REPORTS SHALL BE SUBMITTED TO THE OFFICE OF THE ENGINEER OF RECORD ON A WEEKLY BASIS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

8.1.3 UPON COMPLETION OF THE ASSIGNED WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS/HER KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

8.2 SEE THE "SPECIAL INSPECTION SCHEDULE" FOR THE TYPES, EXTENTS, AND FREQUENCY OF SPECIFIC ITEMS REQUIRING SPECIAL INSPECTIONS AS PART OF THIS PROJECT.

| SPECIAL INSPECTION SCHEDULE        |                      |          |  |
|------------------------------------|----------------------|----------|--|
| REQUIRED SPECIAL INSPECTION AREAS: | FREQUENCY OF TESTING |          | COMMENTS:  |
|                                    | CONTINUOUS           | PERIODIC |  |
| <b>RETAINING WALLS</b>             |                      |          |  |
| GEOGRID                            |                      | X        | INSPECTION SHALL BE MADE OF THE TYPE, LOCATION, ORIENTATION, AND EXTENT OF GEOGRID PLACEMENT IN EACH WALL        |
| DRAIN TILE INSTALLATION            |                      | X        | INSPECTION SHALL BE MADE OF THE PLACEMENT, LOCATION, AND VENTING TO DAYLIGHT                                     |
| <b>SOILS</b>                       |                      |          |  |
| EXCAVATIONS                        |                      | X        | VERIFY EXCAVATION ARE EXTENDED TO PROPER DEPTHS AND HAVE REACHED REQUIRED MATERIAL                               |
| FIELD DENSITY                      |                      | X        | IN ACCORDANCE WITH ASTM D-6938 OR ASTM D-1556  |
| MOISTURE-DENSITY RELATIONSHIPS     |                      | X        | IN ACCORDANCE WITH AASHTO OR ASTM CRITERIA AS SPECIFIED FOR SUBGRADE, LEVELING PAD, AND REINFORCED BACKFILL      |
| GRADATION ANALYSIS                 |                      | X        | IN ACCORDANCE WITH ASTM D-422  |
| WALL BACKFILL                      |                      | X        | VERIFY USE OF PROPER MATERIALS, DENSITIES, LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF REINFORCED BACKFILL |

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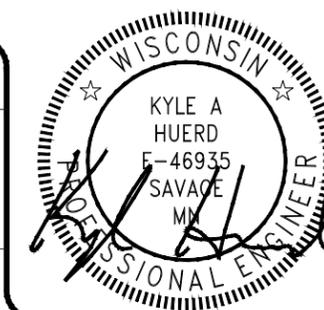


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SEE CB#3, WALL 1  
NOW BLENDS INTO AN  
AREA WELL. DISTANCE  
WILL BE REDUCED

BEGIN WALL 1  
RW-STA. 00.00

BEGIN WALL 2  
RW-STA. 00.00

END WALL 2  
RW-STA. 26.25

BEGIN WALL 7  
RW-STA. 00.00

END WALL 7  
RW-STA. 45.75

END WALL 9  
RW-STA. 34.5

END WALL 3  
RW-STA. 60.75

END WALL 6  
RW-STA. 37.5

END WALL 4  
RW-STA. 88.5

BEGIN WALL 6  
RW-STA. 00.00

END WALL 8  
RW-STA. 44.25

BEGIN WALL 9  
RW-STA. 00.00

BEGIN WALL 3  
RW-STA. 00.00

BEGIN WALL 4  
RW-STA. 00.00

BEGIN WALL 5  
RW-STA. 00.00

END WALL 5  
RW-STA. 33.75

END WALL 1  
RW-STA. 285.00



Know what's BELOW.  
CALL before you dig.

NOTE:

1. SITE PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY AND IS TAKEN FROM THE CONTRACT PLANS PREPARED BY PINNACLE ENGINEERING GROUP LAST DATED 11/18/2020.
2. NORTH ARROW DIRECTION IS APPROXIMATE, REFER TO CONTRACT PLANS FOR ACTUAL HEADING.
3. REFER TO CONTRACT PLANS FOR ALL HORIZONTAL ALIGNMENT AND ACTUAL SITE GEOMETRY.

LEGEND:

- TOP OF WALL
- APPROXIMATE GEOGRID COVERAGE



SEE CIVIL PLANS LAST REVISED  
07-14-21, CB #3. SAME COMMENT  
THROUGHOUT THIS DOCUMENT.

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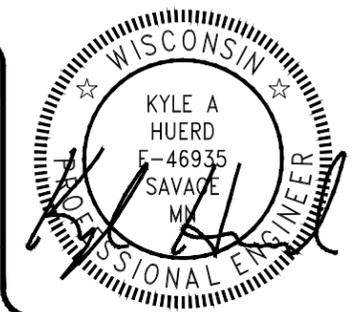


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|---|-----------------------|--------------------|---------------------|
| Title: WALL LOCATION PLAN VIEW              |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 50' | Sheet No:<br>RW-3.0 |



**GENERAL NOTES:**

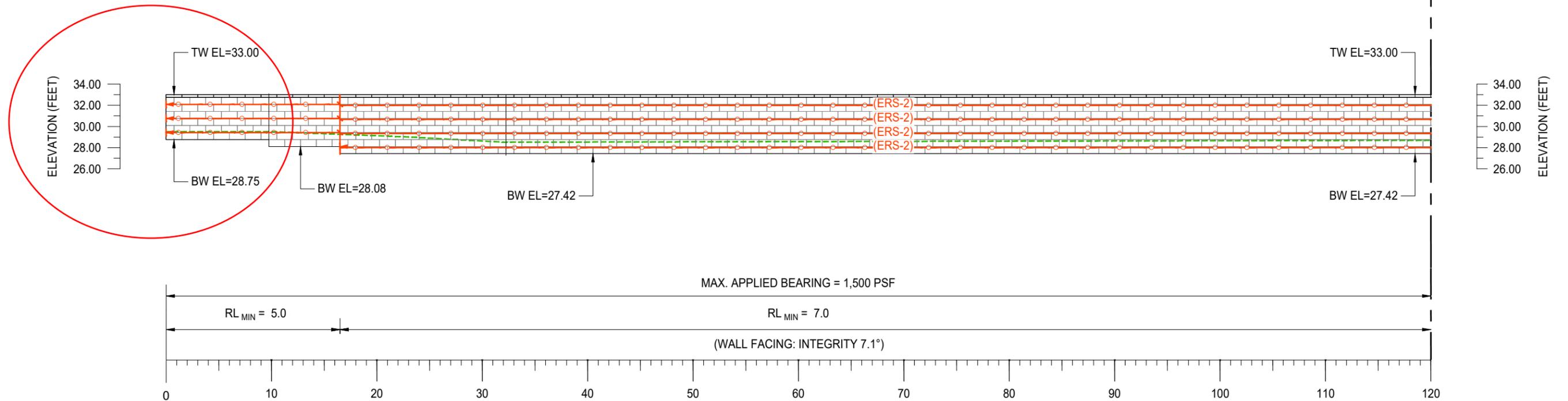
1. ALL ELEVATIONS AND DISTANCES ARE SHOWN IN FEET ALONG FACE OF WALL.
2. MINIMUM REINFORCEMENT LENGTH ( $RL_{MIN}$ ) IS LISTED ALONG WALL FRONT FACE PROFILE. MINIMUM LENGTH IS MEASURED FROM FRONT FACE OF BLOCK TO TAIL OF GEOGRID.
3. THE WALLS SHALL BE CONSTRUCTED USING COUNTY: INTEGRITY 8" UNITS AND ERS-2 GEOGRID SOIL REINFORCEMENT. SEE SHEET RW-2.0 FOR MATERIAL SPECIFICATIONS.
4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE 
- ERS-2 GEOGRID 



SEE CB#3, WALL 1  
NOW BLENDS INTO AN  
AREA WELL. DISTANCE  
WILL BE REDUCED



**WALL 1 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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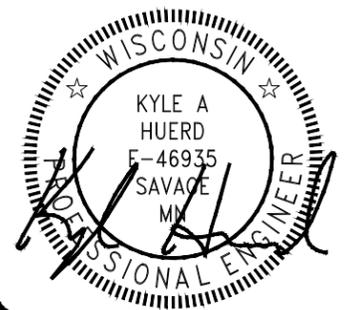


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|---|-----------------------|--------------------|---------------------|
| Title: WALL 1 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.0 |

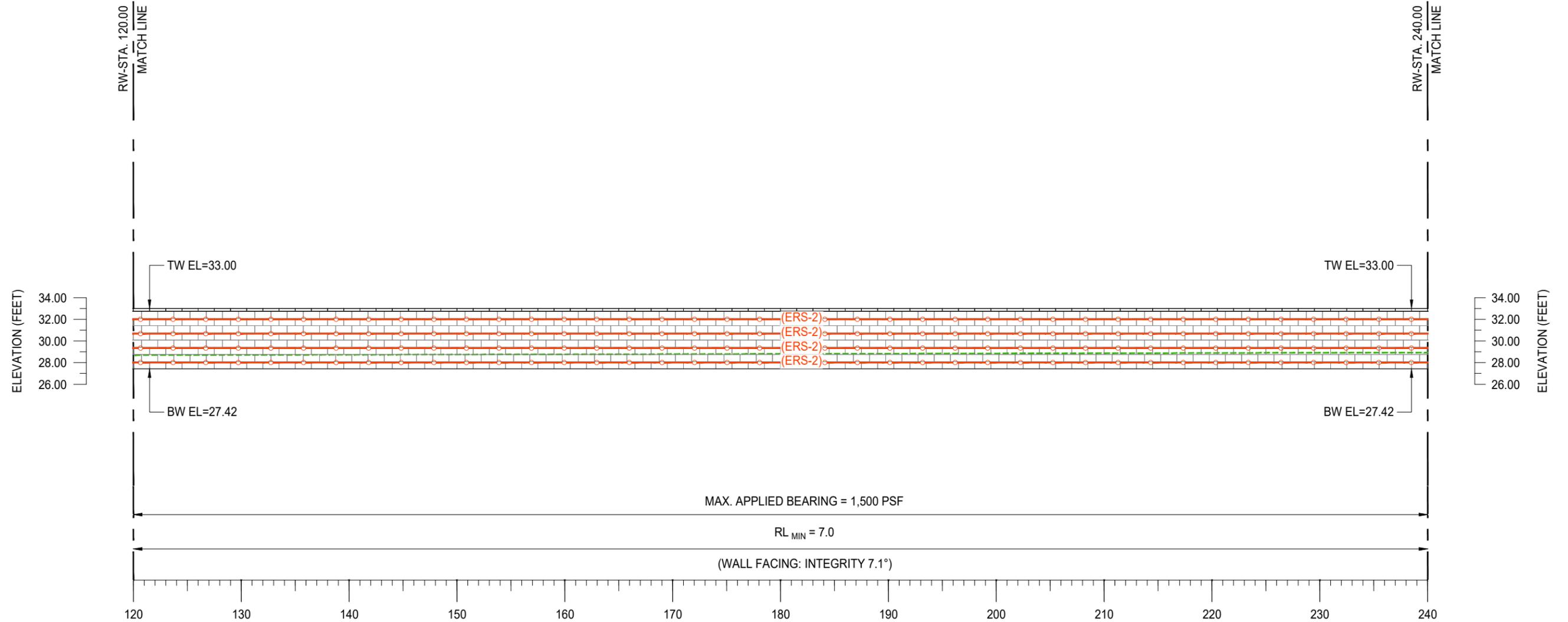


**GENERAL NOTES:**

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**LEGEND:**

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- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE 
- ERS-2 GEOGRID 



**WALL 1 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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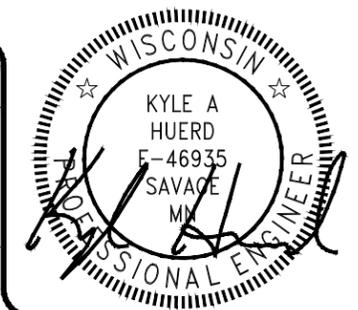


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| Title: WALL 1 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.1 |

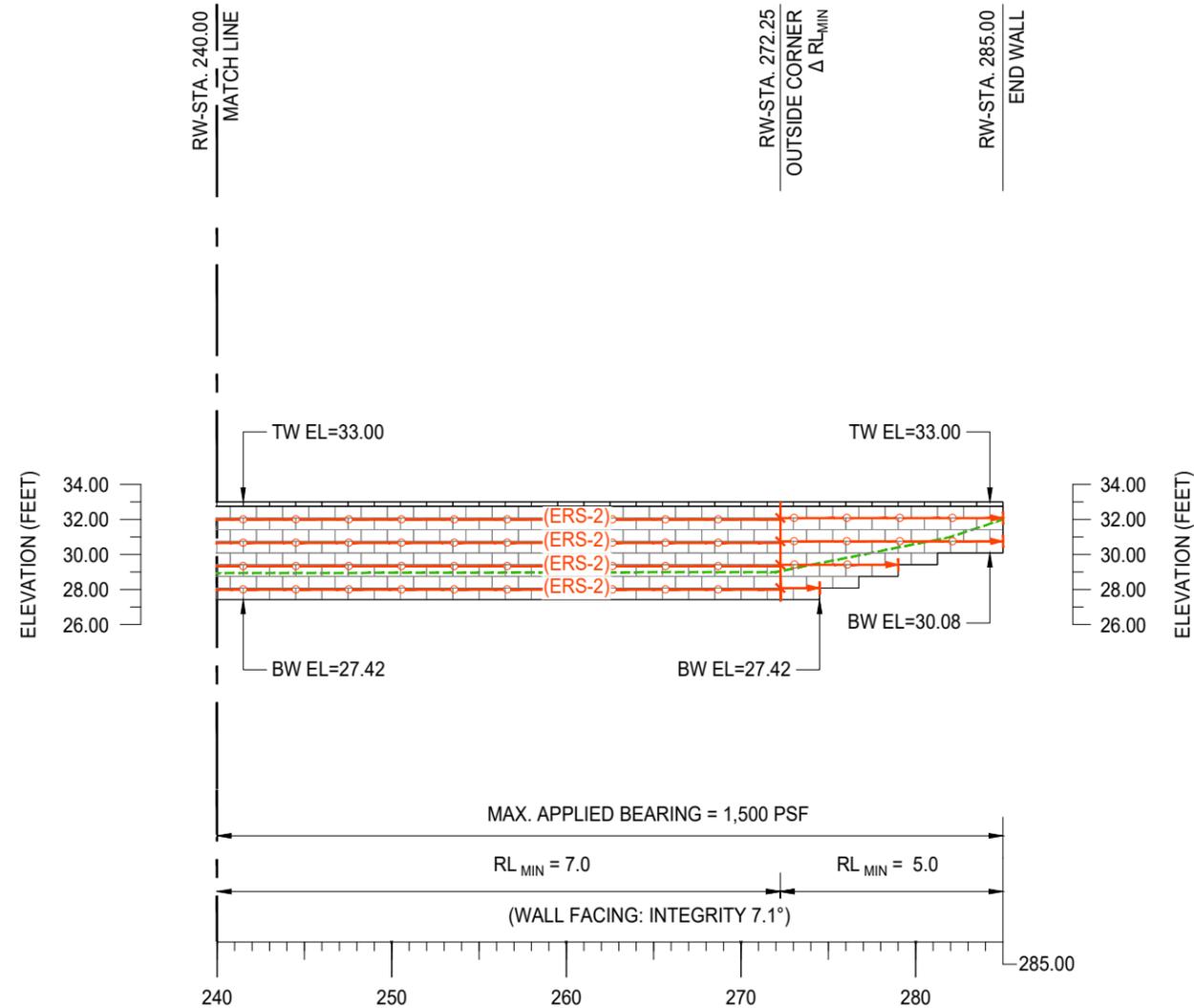


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4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID (ERS-2)



**WALL 1 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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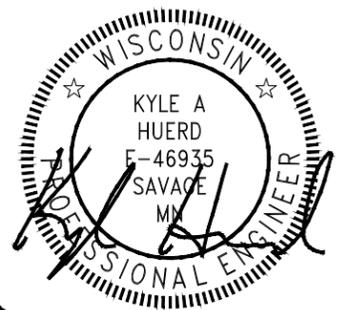


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|---|-----------------------|--------------------|---------------------|
| Title: WALL 1 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.2 |



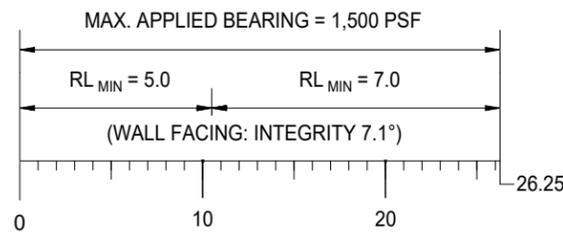
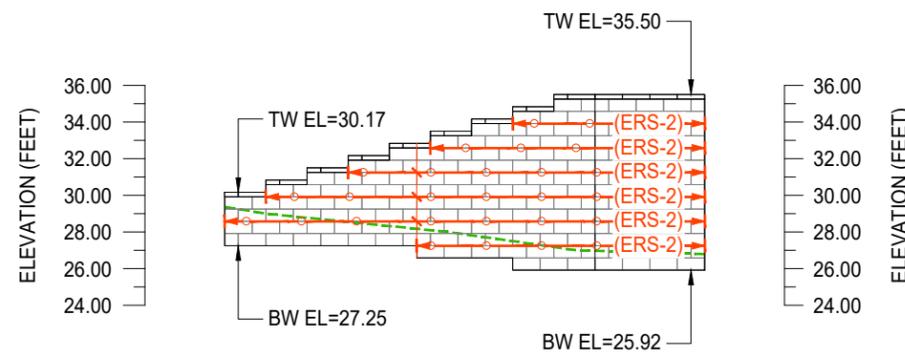
**GENERAL NOTES:**

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4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID (ERS-2)

RW-STA. 0.00  
 BEGIN WALL  
 BEGIN RADIUS  
  
 RW-STA. 10.50  
 $\Delta RL_{MIN}$   
  
 RW-STA. 20.25  
 END RADIUS  
  
 RW-STA. 26.25  
 END WALL  
 ABUT FOUNDATION



**WALL 2 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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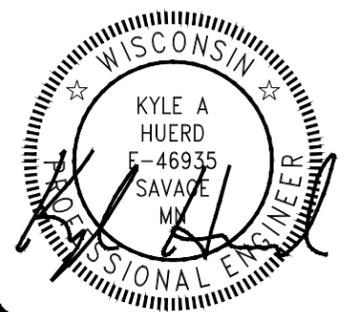


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|---|-----------------------|--------------------|---------------------|
| Title: WALL 2 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.3 |

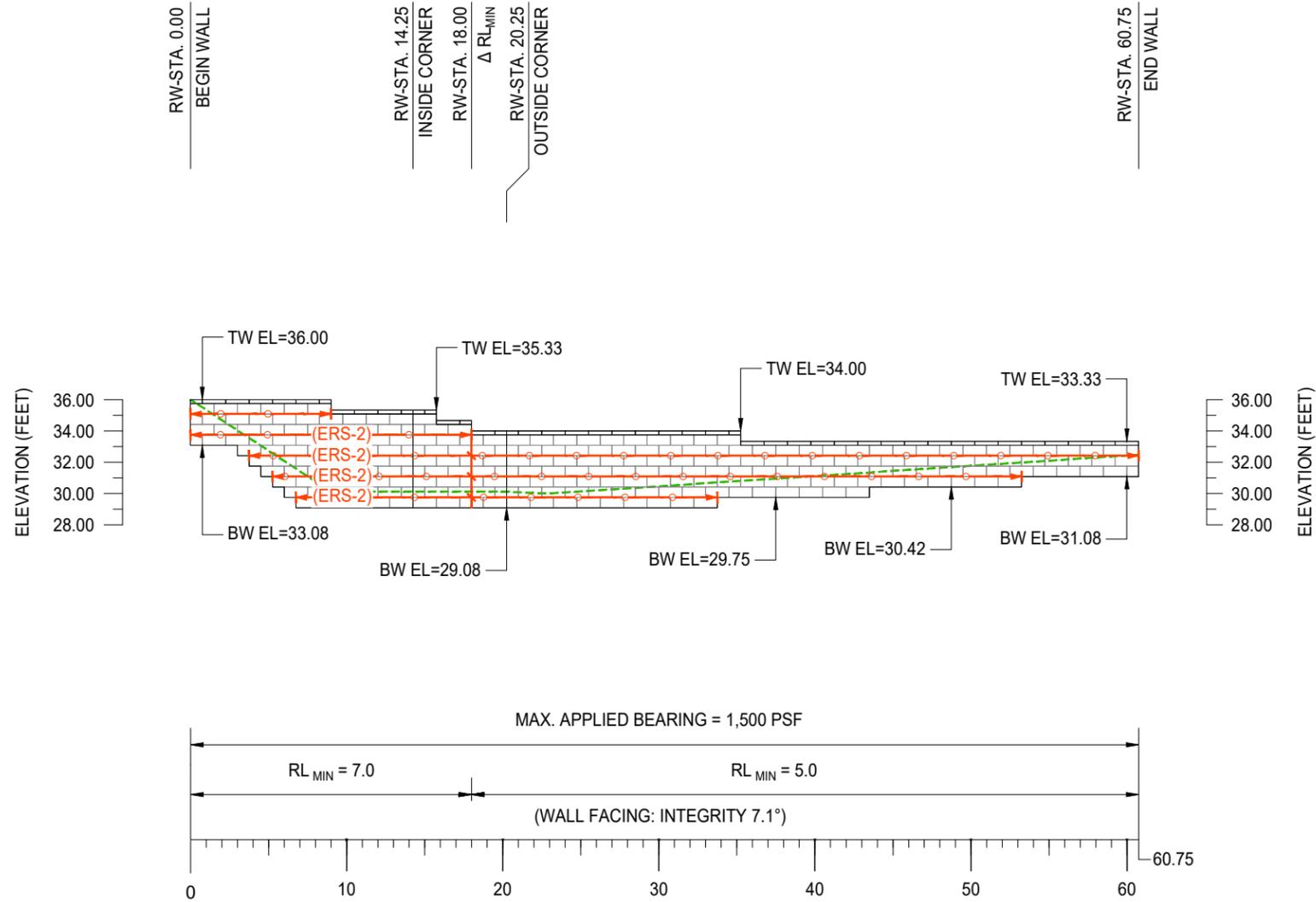


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4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID (ERS-2)



**WALL 3 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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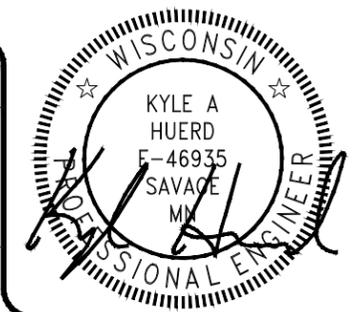
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|---|-----------------------|--------------------|---------------------|
| Title: WALL 3 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.4 |

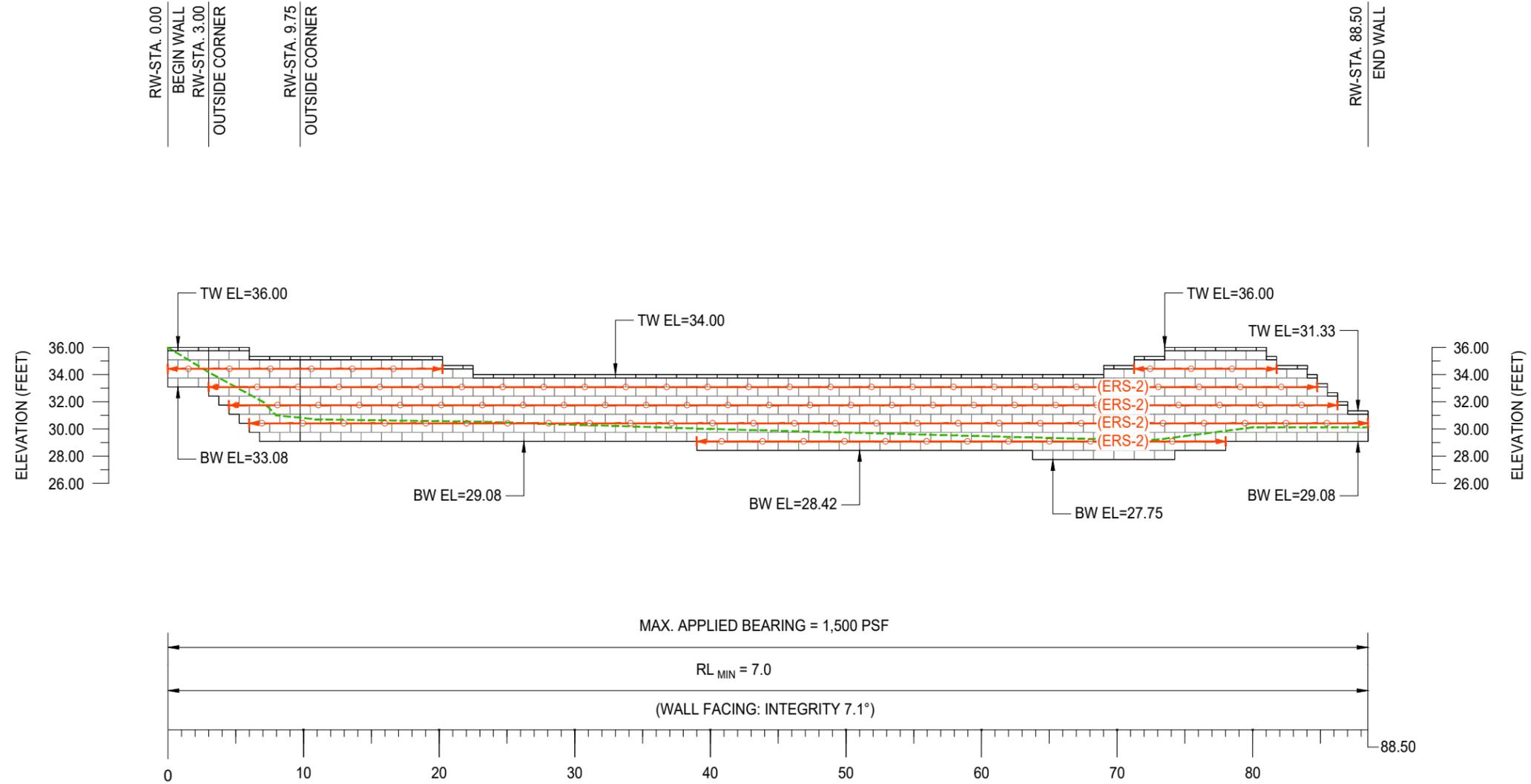


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- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID



**WALL 4 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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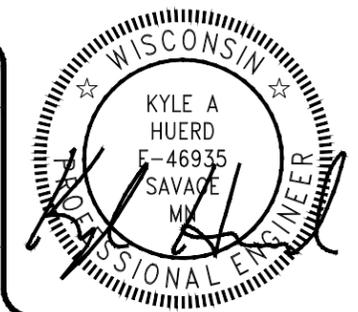


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|---|-----------------------|--------------------|---------------------|
| Title: WALL 4 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.5 |



**GENERAL NOTES:**

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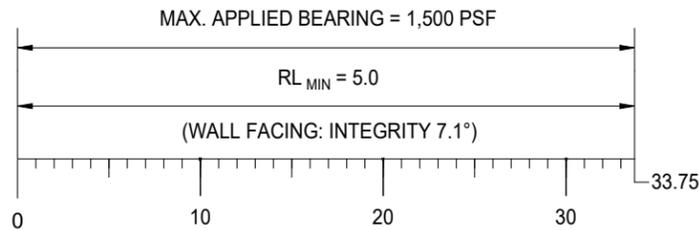
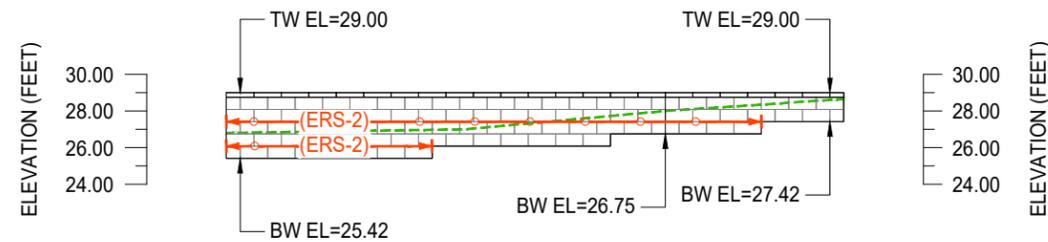
**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID (ERS-2)

RW-STA. 0.00  
 BEGIN WALL  
 ABUT FOUNDATION

RW-STA. 24.00  
 BEGIN RADIUS

RW-STA. 33.75  
 END WALL



**WALL 5 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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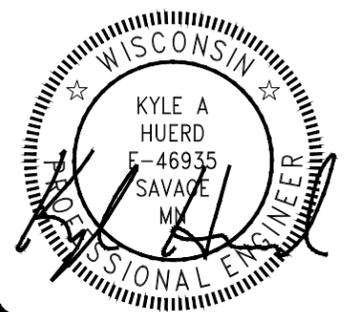


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|---|-----------------------|--------------------|---------------------|
| Title: WALL 5 ELEVATION                     |                       |                    |                     |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.6 |

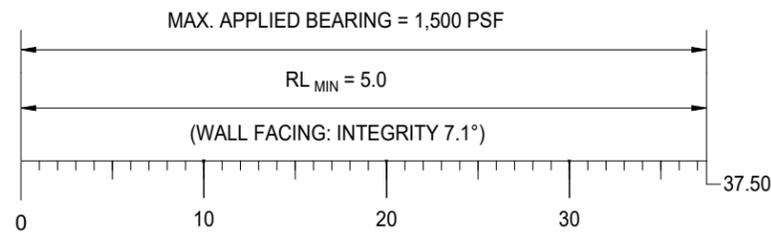
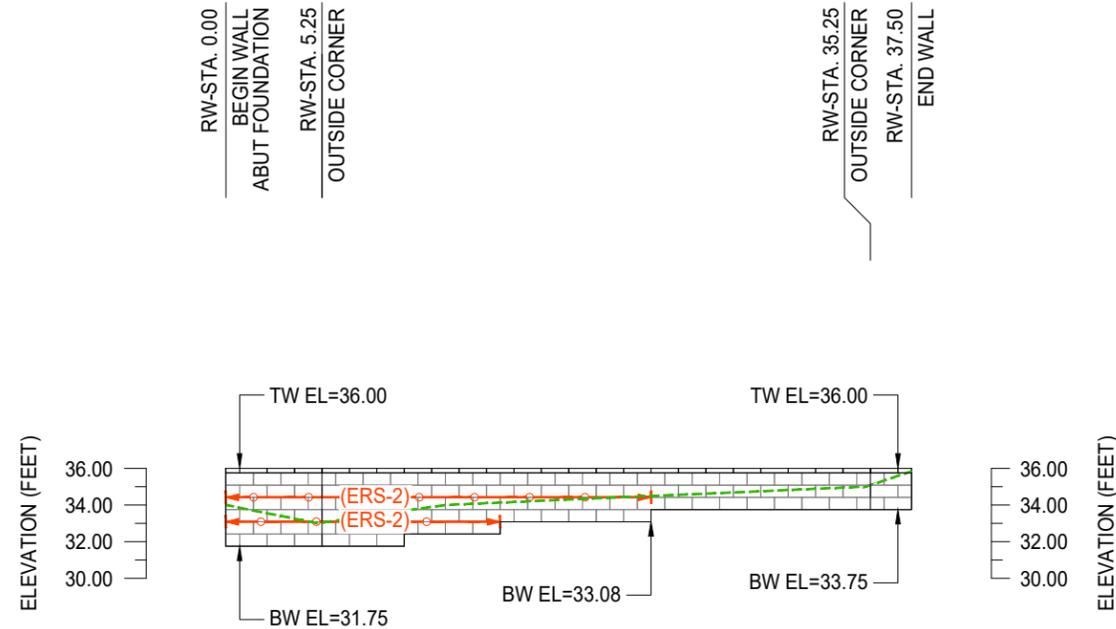


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4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE 
- ERS-2 GEOGRID 



**WALL 6 ELEVATION**  
 DISTANCE SHOWN IN FEET ALONG FRONT FACE

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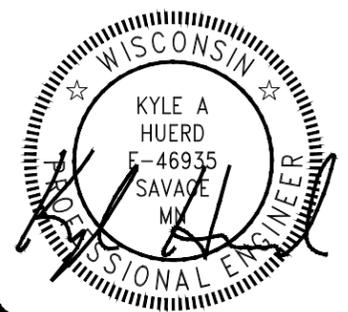


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|--|-----------------------|--------------------|---------------------|
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| Project: FOX DEN APARTMENTS WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS           |                       |                    |                     |
| Project No:<br>21CMC017                  | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.7 |

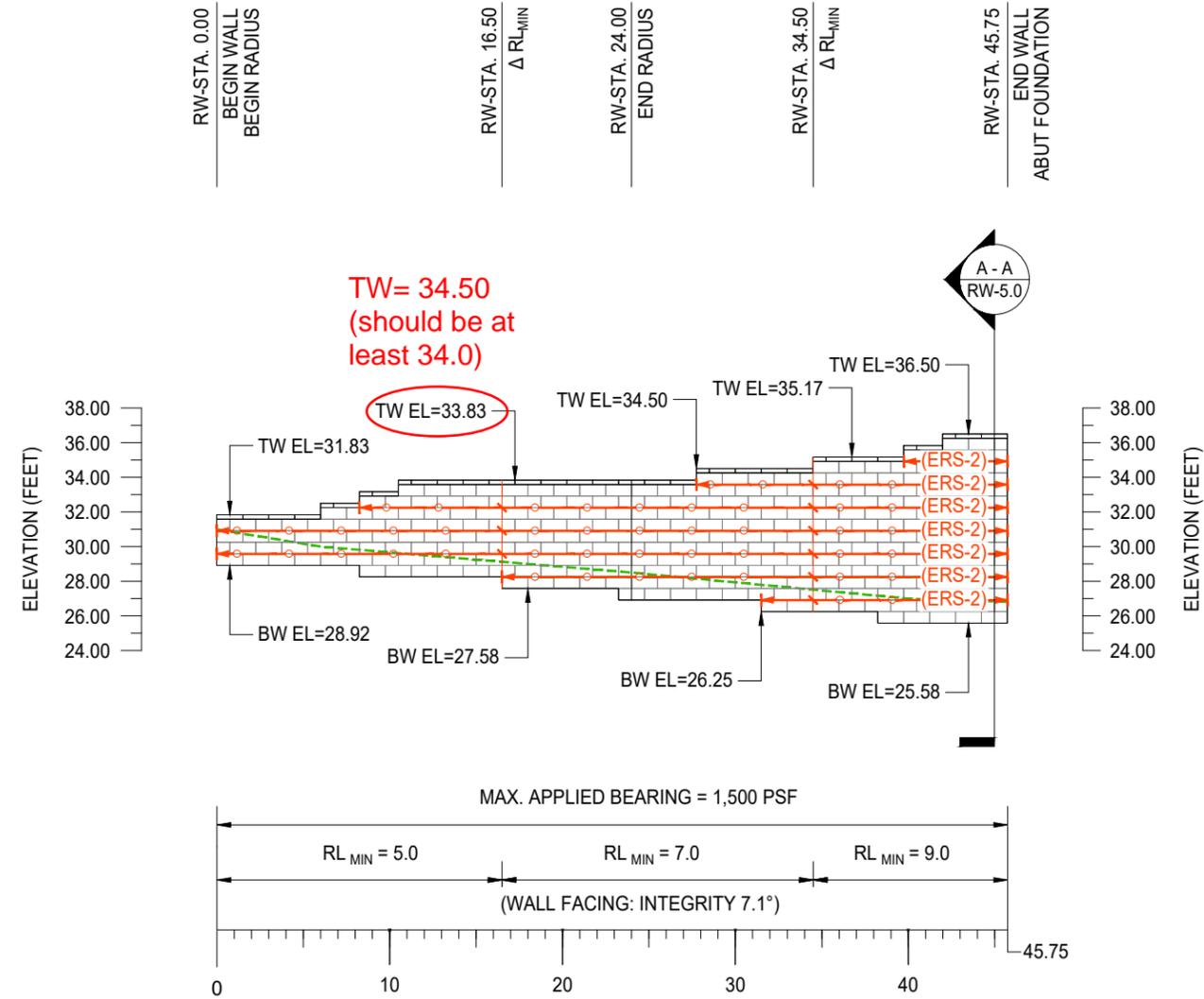


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1. ALL ELEVATIONS AND DISTANCES ARE SHOWN IN FEET ALONG FACE OF WALL.
2. MINIMUM REINFORCEMENT LENGTH ( $RL_{MIN}$ ) IS LISTED ALONG WALL FRONT FACE PROFILE. MINIMUM LENGTH IS MEASURED FROM FRONT FACE OF BLOCK TO TAIL OF GEOGRID.
3. THE WALLS SHALL BE CONSTRUCTED USING COUNTY: INTEGRITY 8" UNITS AND ERS-2 GEOGRID SOIL REINFORCEMENT. SEE SHEET RW-2.0 FOR MATERIAL SPECIFICATIONS.
4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE 
- ERS-2 GEOGRID 



**WALL 7 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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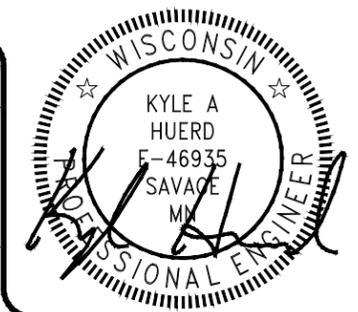


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| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                     |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
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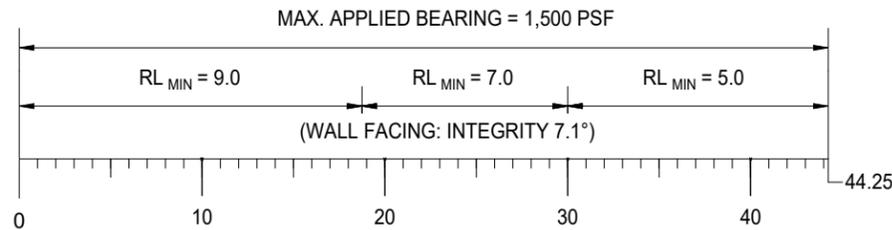
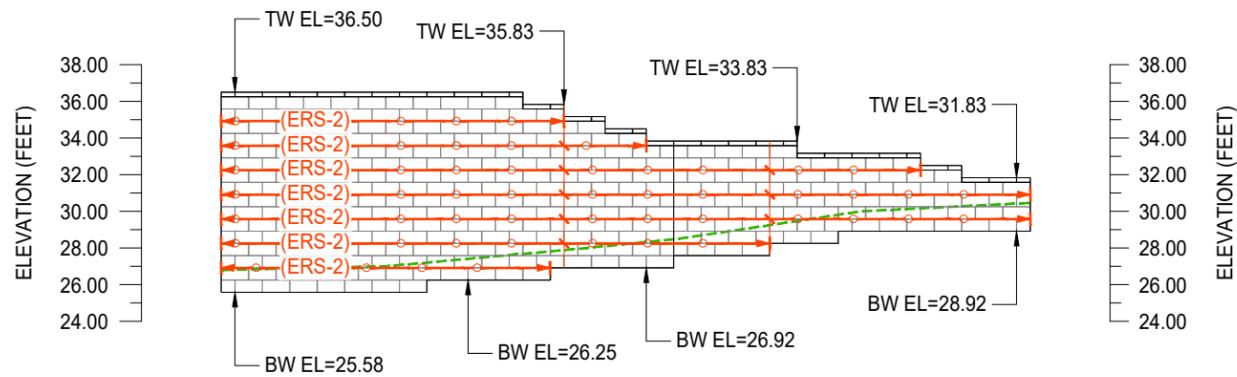
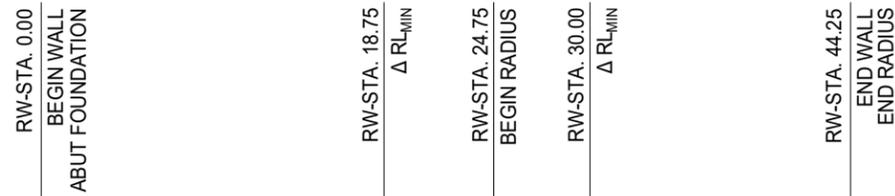


**GENERAL NOTES:**

1. ALL ELEVATIONS AND DISTANCES ARE SHOWN IN FEET ALONG FACE OF WALL.
2. MINIMUM REINFORCEMENT LENGTH ( $RL_{MIN}$ ) IS LISTED ALONG WALL FRONT FACE PROFILE. MINIMUM LENGTH IS MEASURED FROM FRONT FACE OF BLOCK TO TAIL OF GEOGRID.
3. THE WALLS SHALL BE CONSTRUCTED USING COUNTY: INTEGRITY 8" UNITS AND ERS-2 GEOGRID SOIL REINFORCEMENT. SEE SHEET RW-2.0 FOR MATERIAL SPECIFICATIONS.
4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID (ERS-2)



**WALL 8 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

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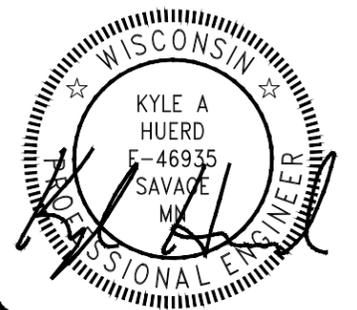


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| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.9 |

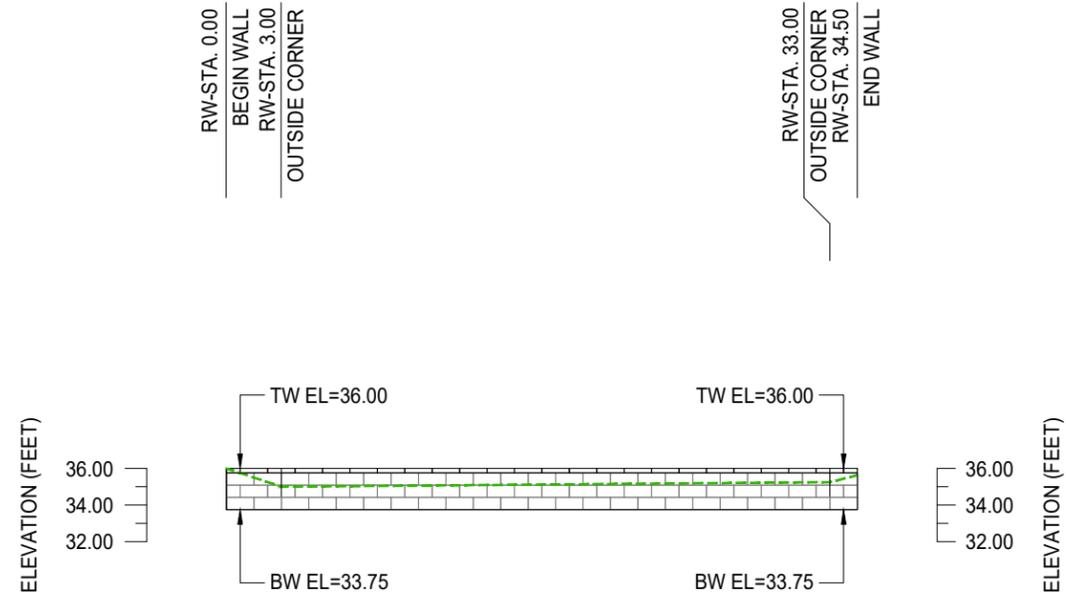


**GENERAL NOTES:**

1. ALL ELEVATIONS AND DISTANCES ARE SHOWN IN FEET ALONG FACE OF WALL.
2. MINIMUM REINFORCEMENT LENGTH ( $R_{L_{MIN}}$ ) IS LISTED ALONG WALL FRONT FACE PROFILE. MINIMUM LENGTH IS MEASURED FROM FRONT FACE OF BLOCK TO TAIL OF GEOGRID.
3. THE WALLS SHALL BE CONSTRUCTED USING COUNTY: INTEGRITY 8" UNITS AND ERS-2 GEOGRID SOIL REINFORCEMENT. SEE SHEET RW-2.0 FOR MATERIAL SPECIFICATIONS.
4. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE BLOCK SYSTEM SHOWN.

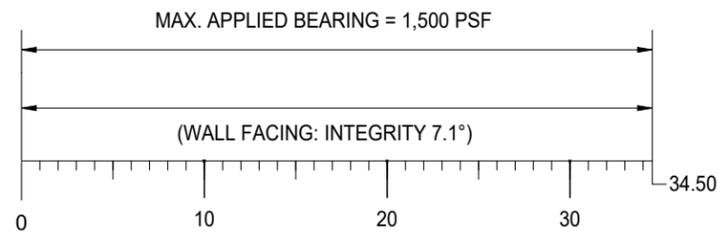
**LEGEND:**

- TOP OF WALL ELEVATION (TOP OF CAP) TW EL= XX.XX
- BOTTOM OF WALL ELEVATION (BOTTOM OF BLOCK) BW EL= XX.XX
- FINISHED GRADE LINE
- ERS-2 GEOGRID



RW-STA. 0.00  
 BEGIN WALL  
 RW-STA. 3.00  
 OUTSIDE CORNER

RW-STA. 33.00  
 OUTSIDE CORNER  
 RW-STA. 34.50  
 END WALL



**WALL 9 ELEVATION**  
DISTANCE SHOWN IN FEET ALONG FRONT FACE

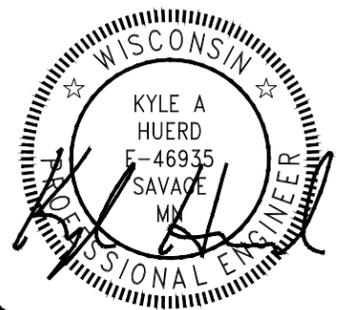
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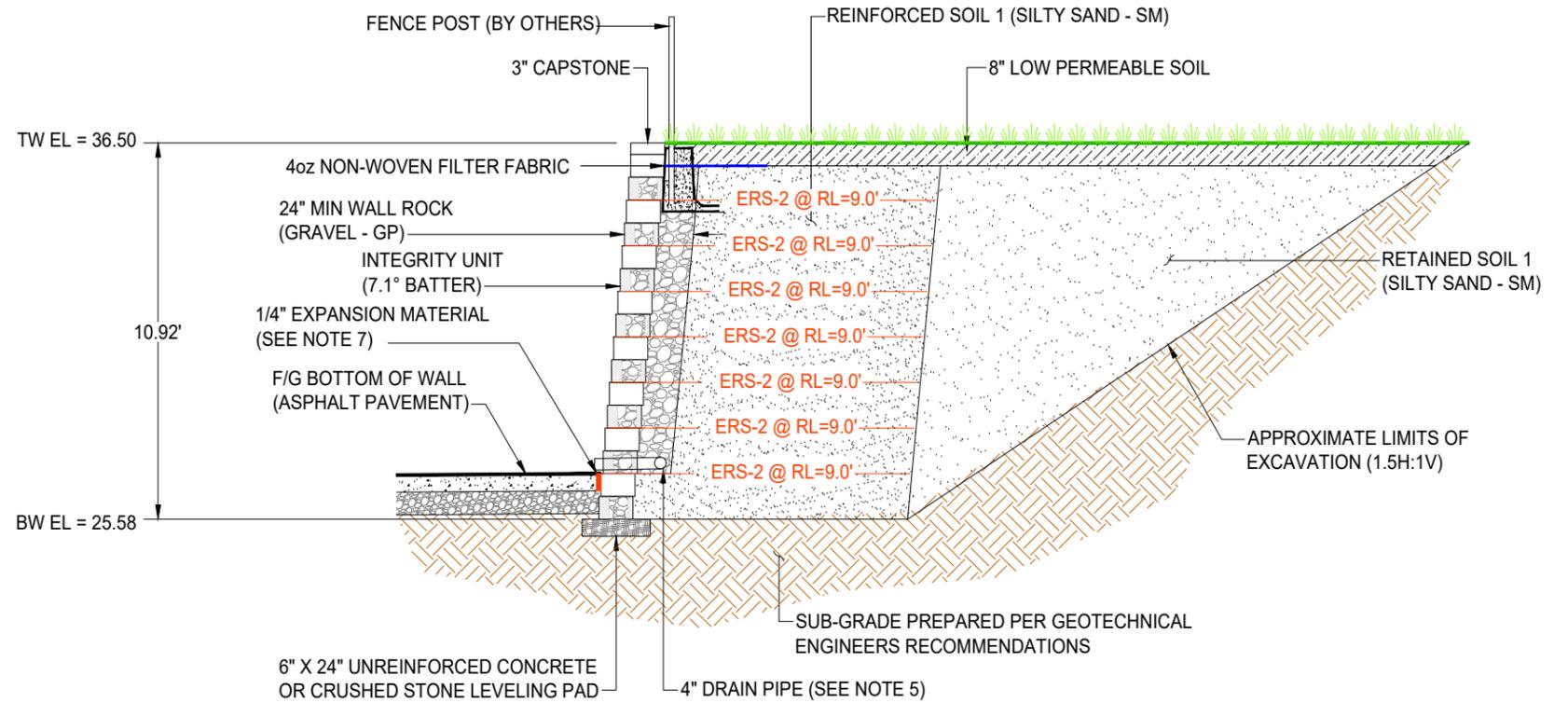
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|   |                       |                    |                      |
|---|-----------------------|--------------------|----------------------|
| Title: WALL 9 ELEVATION                     |                       |                    |                      |
| Project: FOX DEN APARTMENTS<br>WAUKESHA, WI |                       |                    |                      |
| SEGMENTAL RETAINING WALL PLANS              |                       |                    |                      |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 10' | Sheet No:<br>RW-4.10 |



**GENERAL NOTES:**

1. THE SECTION SHOWN IS A REPRESENTATIVE WALL SECTION. THE WALL HEIGHTS, ELEVATIONS, TOE SLOPES, AND BACK SLOPES VARY ACCORDING TO THE ELEVATION PLAN AND SITE PLAN RESPECTIVELY.
2. UPON EXCAVATION, WHERE UNSUITABLE SOILS ARE FOUND, SUBCUT AS REQUIRED BY THE ONSITE GEOTECHNICAL ENGINEER AND REPLACE WITH SUITABLE COMPACTED STRUCTURAL FILL TO ACHIEVE THE REQUIRED BEARING CAPACITY. THE STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY.
3. APPROXIMATE LIMITS OF EXCAVATION VARIES WHERE SUBCUT IS REQUIRED. ACTUAL LIMITS AND SIDE SLOPES SHALL BE DETERMINED BY OSHA REGULATIONS AND MATCH FIELD CONDITIONS AS DETERMINED BY THE CONTRACTOR.
4. THE WALL IS DESIGNED AS A REINFORCED WALL REQUIRING ERS-2 REINFORCEMENT AT THE ELEVATIONS SHOWN AND SHALL BE CONSTRUCTED WITH COUNTY INTEGRITY 8" UNITS USING THE 7.1° BATTER.
5. 4" CORRUGATED PERFORATED DRAINPIPE INSTALLED AS LOW AS POSSIBLE WITH POSITIVE DRAINAGE. OUTLET INTO ONSITE DRAINAGE OR THROUGH WALL FACE AT 50.0' O.C. AND LOW ENDS OF WALL. SEE DETAIL 2/RW-6.0.
6. INSPECT EXCAVATION SLOPES FOR ACTIVE SEEPAGE AND PLACE ADDITIONAL DRAINS WHERE SEEPAGE OCCURS.
7. 1/4" EXPANSION MATERIAL SHALL BE PLACED BETWEEN THE MODULAR BLOCK RETAINING WALL UNITS AND ANY CONCRETE PLACED AFTER CONSTRUCTION OF THE MODULAR BLOCK RETAINING WALL.
8. DO NOT BRING HEAVY COMPACTION OR PAVING EQUIPMENT WITHIN 3' OF THE BACK OF THE COUNTY RETAINING WALL.
9. SEE MANUFACTURER'S INFORMATION FOR ADDITIONAL DETAILS ON THE COUNTY RETAINING WALL SYSTEM.



**WALL SECTION A - A**  
(SECTION CUT: WALL 7 AT RW-STA. 44.00)

| LEGEND |                                     |
|--------|-------------------------------------|
|        | LOW PERMEABLE SOIL                  |
|        | WALL ROCK (GRAVEL - GP)             |
|        | REINFORCED SOIL 1 (SILTY SAND - SM) |
|        | RETAINED SOIL 1 (SILTY SAND - SM)   |
|        | LEVELING PAD (GRAVEL - GP)          |
|        | IN-SITU/STRUCTURAL FILL             |
|        | ERS-2 GEOGRID                       |
|        | 4 oz NON-WOVEN FILTER FABRIC        |

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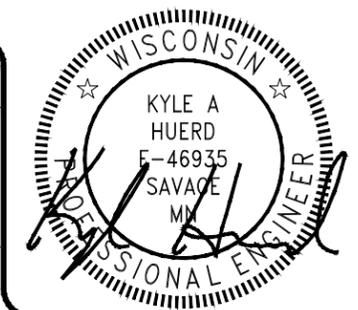


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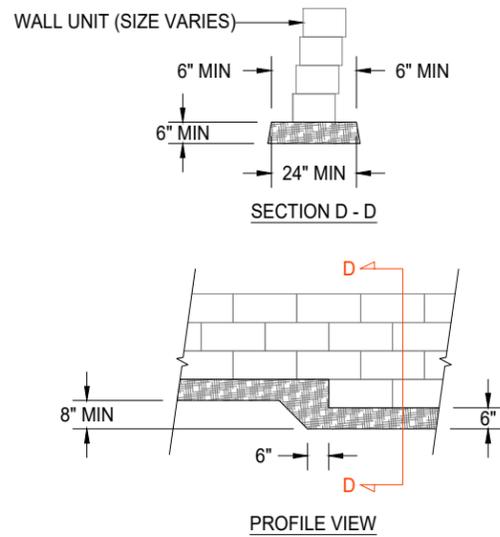
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|---|-----------------------|-------------------|---------------------|
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| SEGMENTAL RETAINING WALL PLANS              |                       |                   |                     |
| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>1" = 5' | Sheet No:<br>RW-5.0 |



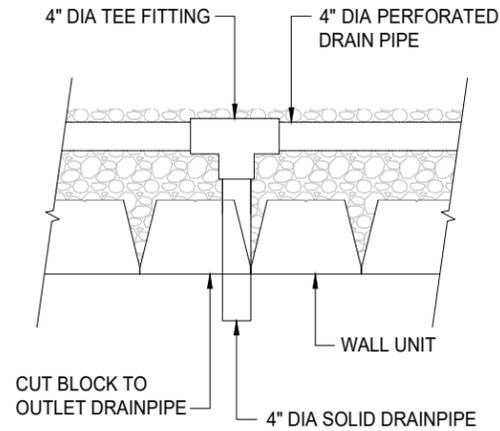
**NOTES:**

1. FOUNDATION SOILS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.
2. LEVELING PAD SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN USING CRUSHED STONE OR 2,000 PSI UNREINFORCED CONCRETE.



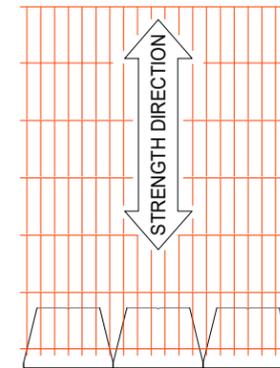
**NOTES:**

1. THE DRAINAGE SYSTEM SHALL CONSIST OF A 4" MINIMUM DIAMETER CORRUGATED PERFORATED PLASTIC DRAINPIPE.



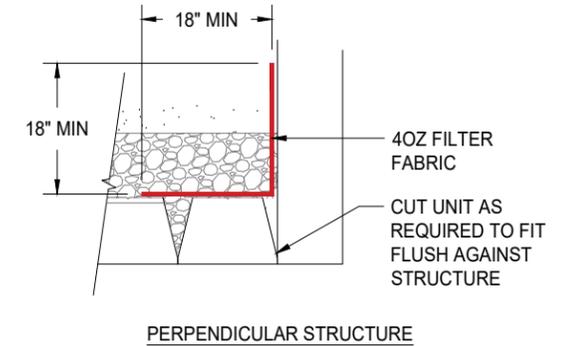
**NOTES:**

1. GEOGRID SHALL BE PLACED WITHIN 1" OF THE FRONT FACE OF RETAINING WALL UNITS.
2. GEOGRID SHALL LAY FLAT ON THE WALL UNITS AND COMPACTED BACKFILL SOILS BEHIND RETAINING WALL UNITS UNLESS DEFLECTION IS REQUIRED. GEOGRID SOIL REINFORCEMENT MAY DEFLECT VERTICALLY A MAXIMUM OF 15°.
3. PLACE THE NEXT COURSE OF RETAINING WALL UNITS. PULL GEOGRID TAUT TO REMOVE SLACK AND WRINKLES.
4. STAKE AS REQUIRED TO KEEP GEOGRID TAUT DURING BACKFILL PLACEMENT.



**NOTES:**

1. PLACE 4OZ FILTER FABRIC ALONG VERTICAL ABUTMENT JOINTS TO ENSURE BACKFILL RETENTION.
2. FABRIC SHALL EXTEND 18" MINIMUM ON BOTH SIDES OF THE ABUTMENT JOINT.



1 LEVELING PAD DETAIL - N.T.S

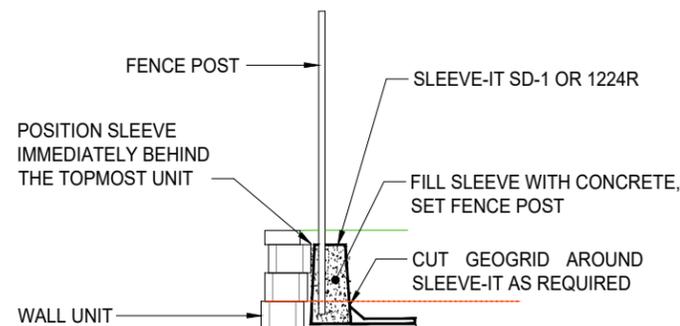
2 DRAIN PIPE OUTLET DETAIL - N.T.S

3 GEOGRID ORIENTATION DETAIL - N.T.S

4 TYPICAL ABUTMENT DETAIL - N.T.S

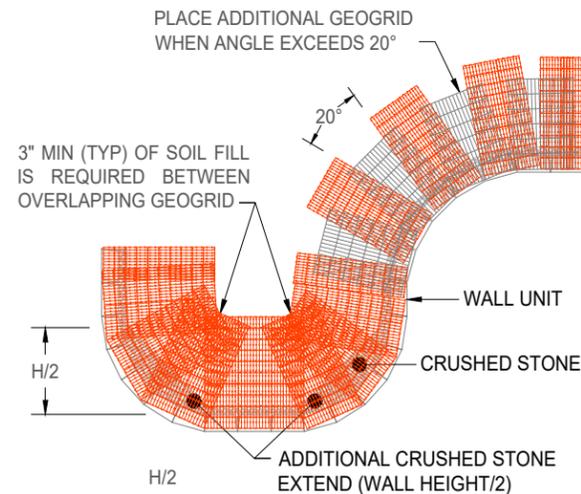
**NOTES:**

1. SLEEVE-IT FENCE POST FOOTING SHALL BE USED WHERE POST MUST BE PLACED WITHIN 3-FEET OF THE FACE OF WALL. WHERE POSTS ARE LOCATED 3-FEET OR GREATER FROM FACE OF WALL SONO-TUBES SHALL BE USED FOR POST INSTALLATION.
2. FENCING SYSTEMS APPROVED FOR USE WITH THE SLEEVE-IT SD-1 OR 1224R ARE LIMITED TO THE FOLLOWING HEIGHTS: CHAIN LINK UP TO 8 FT, PRIVACY UP TO 6 FT (WOODEN, PVC, METAL). MAXIMUM POST SIZE 4" X 4".



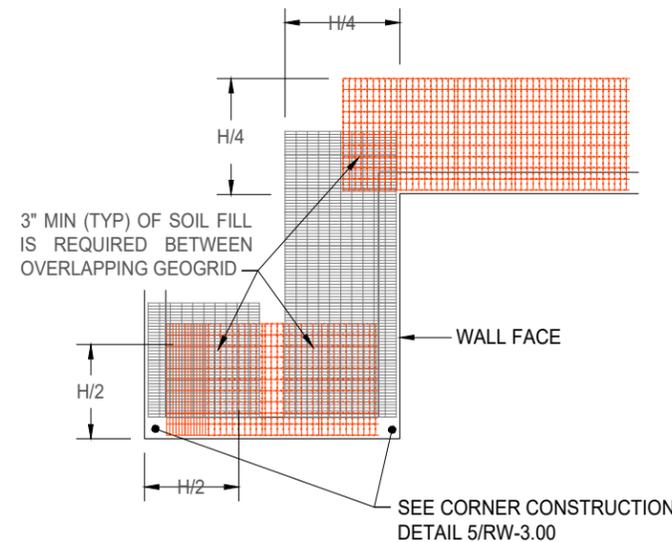
**NOTES:**

1. INSTALL GEOGRID IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND CONSTRUCTION DRAWINGS.
2. "H" IS EQUAL TO TOTAL WALL HEIGHT.



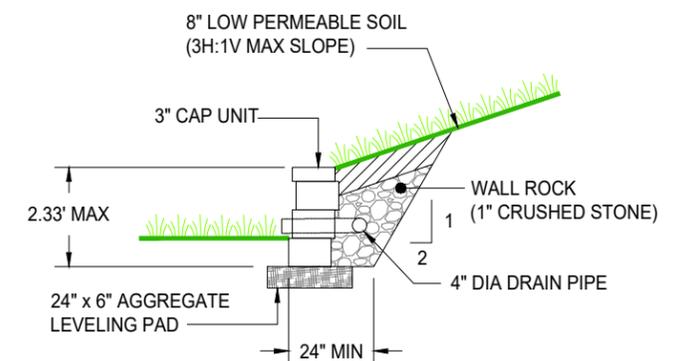
**NOTES:**

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2. "H" IS EQUAL TO TOTAL WALL HEIGHT.



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2. THE WALL IS DESIGNED AS A GRAVITY WALL CONSTRUCTED WITH COUNTY INTEGRITY: 8" UNITS USING THE 7.1° BATTER.
3. 4" CORRUGATED PERFORATED DRAINPIPE WRAPPED WITH GEOTEXTILE INSTALLED AS LOW AS POSSIBLE WITH POSITIVE DRAINAGE. OUTLET INTO ONSITE DRAINAGE OR THROUGH WALL FACE AT 50.0' O.C. AND LOW ENDS OF WALL.



5 TYPICAL POST DETAIL - N.T.S

6 GEOGRID INSTALLATION ON CURVES DETAIL - N.T.S

7 GEOGRID INSTALLATION ON CORNERS DETAIL - N.T.S

8 TYPICAL GRAVITY WALL DETAIL - N.T.S

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| Project No:<br>21CMC017                     | Date:<br>15 JULY 2021 | Scale:<br>AS NOTED | Sheet No:<br>RW-6.0 |

