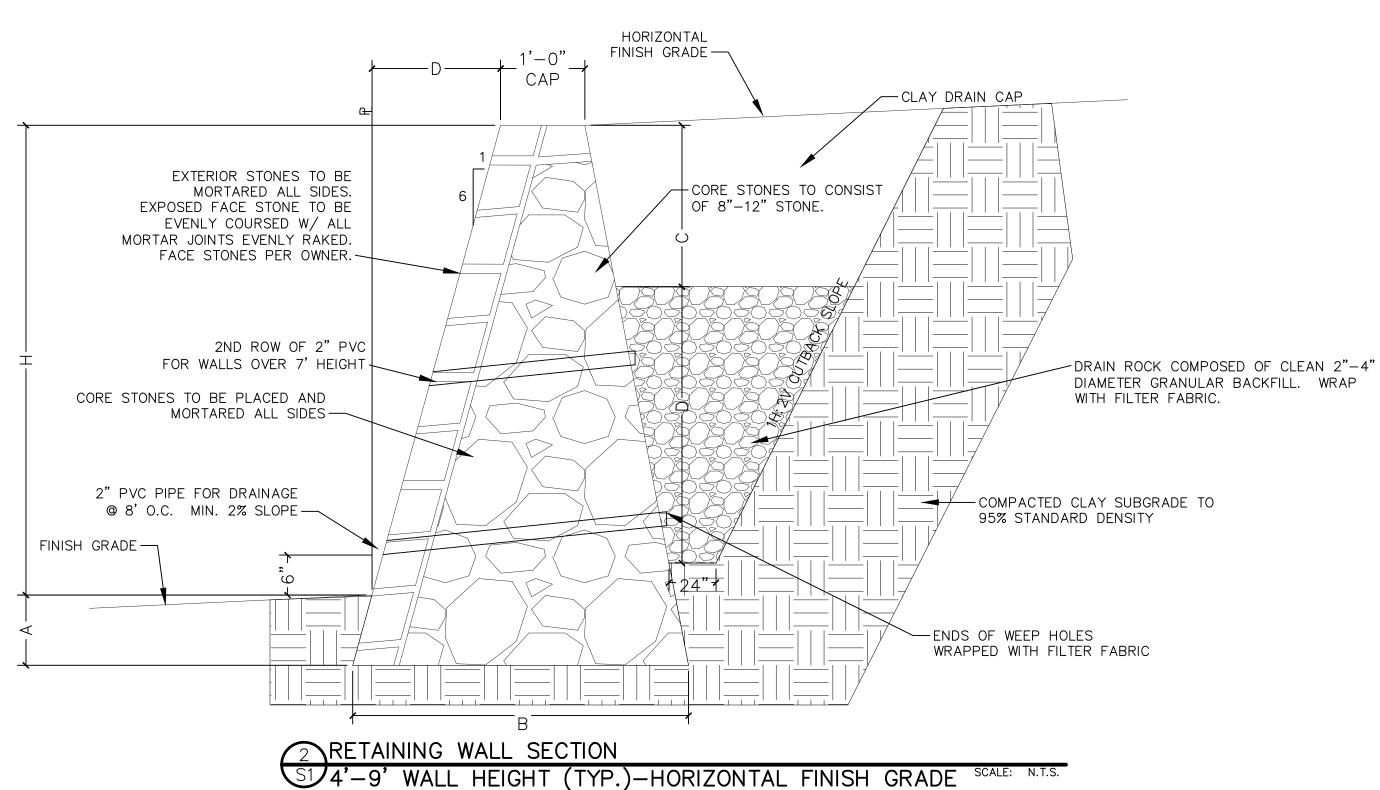


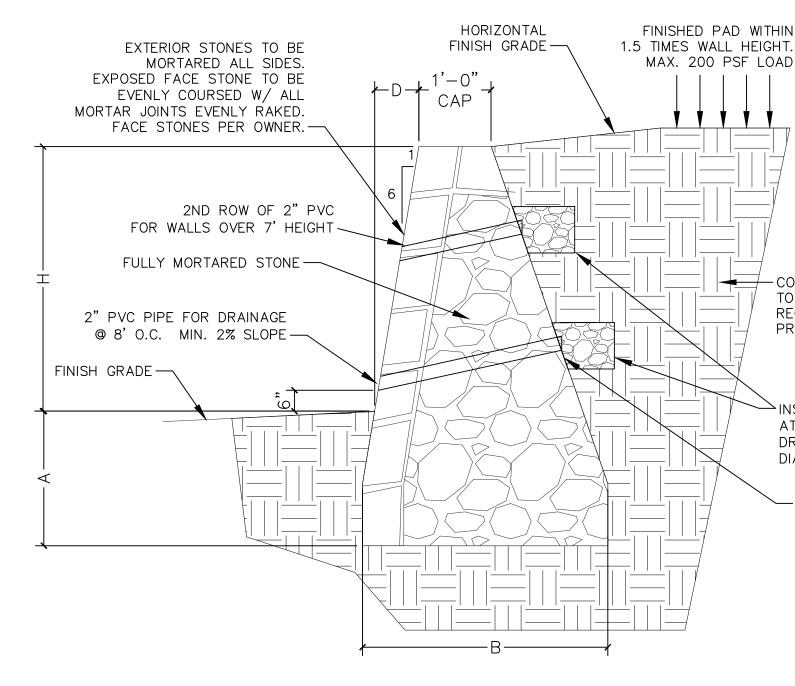
TYPICAL SIDE & REAR RETAINING WALLS W/ HORIZONTAL FINISH GRADE AT TOP OF WALL-DETAILS 1/S1 & 2/S1 WALL DIMENSION SCHEDULE (BASED ON CLAY (CH) SOIL)

| HEIGHT (H) | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' |
|------------------|------|------|-----|-----|-----|-----|-----|-----|-------------|
| BASE DEPTH (A) | 12" | 12" | 15" | 18" | 20" | 21" | 24" | 27" | 30" |
| BASE WIDTH (B) | 14" | 16" | 18" | 27" | 36" | 42" | 48" | 54" | 60 " |
| CAP DEPTH (C) | FULL | FULL | 24" | 24" | 24" | 24" | 28" | 32" | 36" |
| GRAVEL DEPTH (D) | N/A | N/A | 12" | 24" | 36" | 48" | 56" | 64" | 72" |
| BATTER | 2" | 4" | 6" | 8" | 10" | 12" | 14" | 16" | 18" |
| | | | | | | | | | |

<u>GENERAL NOTES:</u>

- DESIGN IS BASED ON WALL HEIGHTS AND LOCATIONS AS SHOWN ON GRADING AND RETAINING WALL PLANS BY MCADAMS DATED 3/11/19, GRADING REVISIONS DATED 4/17/19, AND GEOTECHNICAL REPORT NO. IG184795R (REVISED TO INCLUDE GLOBAL STABILITY ANALYSIS) DATED 3/27/19 BY EWI AS PROVIDED BY CLIENT/CONTRACTOR. CONSTRUCTION STAKING TO BE PERFORMED BY OWNER'S ENGINEER/SURVEYOR.
- FINISH GRADES LABELED AS "HORIZONTAL FINISH GRADE" OR "4:1 TOP OF WALL FINISH GRADE" ARE SHOWN WITH RESPECT TO RETAINING WALL DESIGN PARAMETERS AND MAY NOT NECESSARILY REFLECT ACTUAL CIVIL GRADING SLOPES. 3. SHEET SIA HAD BEEN ADDED TO SET TO REPRESENT 6" TOP OF WALL EXTENSION AND 6" GRADING SWALE FOR WALL "E" PER CIVIL GRADING
- REVISIONS AS REQUESTED BY CITY OF ROCKWALL. CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH ALL INFORMATION CONTAINED WITHIN THE GSA REPORT IN REGARDS TO WALL CONSTRUCTION,
- COMPACTION, TESTING, ETC. WALLS NOT DESIGNED FOR SURCHARGE LOADS, UNLESS SPECIFICALLY SHOWN. NO SURCHARGE LOAD ANTICIPATED FOR STRUCTURES LOCATED
- GREATER THAN 1.5 TIMES WALL HEIGHT. 6. DESIGN ONLY APPLICABLE TO RETAINING WALLS REFERENCED ON THESE PLANS. ALL OTHER RETAINING WALLS NOT SPECIFICALLY SHOWN ON THESE PLANS TO BE DESIGNED BY OTHERS.
- ALL RETAINING WALLS TO BE CONSTRUCTED OUTSIDE RIGHT OF WAY.
- 8. MAXIMUM 4:1 TOE SLOPES FOR ALL SECTIONS OF WALL UNLESS SPECIFICALLY SHOWN OTHERWISE. 9. INSTALL WEEP HOLES FOR ALL WALLS 3' HEIGHT AND OVER. SECOND ROW OF PVC WEEP HOLES AT 4.5' HEIGHT ABOVE TOE REQUIRED FOR ALL WALLS OVER 7' HEIGHT.
- 10. CONTRACTOR TO PROVIDE FENCE SLEEVES AS REQUESTED BY OWNER.
- 11. FACE STONES TO BE SELECTED BY OWNER. 12. MINIMUM 5,000 psi FACE STONES AND TYPE S MORTAR REQUIRED.
- 13. CONTROL JOINTS SHALL BE SPACED AT 25' MAXIMUM.
- 14. CONSTRUCTION JOINTS SHALL BE INSTALLED BETWEEN WALLS SUPPORTED ON DIFFERENT FOUNDATION TYPES WITH FILTER FABRIC (MIRAFI 160N OR APPROVED EQUAL) BEING USED AT ALL CONSTRUCTION JOINTS.
- 15. CORE STONES SHALL CONSIST OF 8"-12" STONE WHICH MAY CONSIST OF FACE STONE RUBBLE OR RIP-RAP.
- 16. DRAIN CAP TO CONSIST OF COMPACTED NATIVE CLAY SOILS WITH MINIMUM PI=25 TO LIMIT ABSORPTION OF SURFACE RUNOFF. 17. WALLS CONSTRUCTED ON UNIMPROVED FILL AREAS SHALL BE CONSTRUCTED WITH FOOTINGS EXTENDED THROUGH FILL MATERIAL AND BEARING ON NATIVE CLAY OR SHALY LIMESTONE.
- 18. WALL SUBGRADE SHOULD BE CLOSELY MONITORED DURING EXCAVATION. UNSUITABLE MATERIALS AT THE FOUNDATION LEVEL SHOULD BE REMOVED AND REPLACED WITH LEAN CONCRETE (MIN. 2000 PSI @ 28 DAYS) OR STRUCTURAL CONCRETE PER GEOTECHNICAL REPORT RECOMMENDATIONS. 19. ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF SITE CONDITIONS CONFLICT WITH CONSTRUCTION OF WALL.
- 20. PERIODIC OBSERVATION BY ENGINEER OF RECORD DURING CONSTRUCTION IS RECOMMENDED IN ORDER TO PROVIDE OVERALL OPINION AS TO CONTRACTOR'S ADHERENCE TO PLANS AND SPECIFICATIONS. THIS IN NO WAY IS A GUARANTEE OR WARRANTY AS TO CONTRACTOR'S WORK. 21. DUE TO EXPANSIVE CLAY SOILS IN THIS AREA IT IS RECOMMENDED THAT PROPERTY OWNER(S) MAINTAIN GOOD WATERING PRACTICES TO LIMIT SOIL MOVEMENTS AND EXCESSIVE PRESSURES ON WALL.





3 RETAINING WALL SECTION W/ POTENTIAL SURCHARGE SU1'-11' WALL HEIGHT-HORIZONTAL FINISH GRADE

NOTE: PAD SURCHARGE ANTICIPATED FOR THE FOLLOWING WALL SECTIONS: 1-RETAINING WALL "D" ALONG SIDE YARD OF LOT 39.

4'

39"

39"

FULL

N/A

8"

5'

42"

48"

FULL

N/A

10"

6'

48"

60"

FULL

N/A

12"

2-PORTION OF RETAINING WALL "E" AT REAR OF ACTIVITY CENTER. (SEE SHEET S/1A

3-PORTION OF RETAINING WALL "K" ALONG SIDE YARD OF LOT 77.

3'

30"

32"

FULL

N/A

2'

24"

24"

FULL

N/A

*NOTE: 1' WALL HEIGHTS NOT ANTICIPATED TO EXPERIENCE SURCHARGE BUT ARE

4"

WALL DIMENSION SCHEDULE (BASED ON CLAY (CH) SOIL)

*1

12"

18"

FULL

N/A

SHOWN TO MAINTAIN A HOMOGENEOUS WALL SECTION.

2"

HEIGHT (H)

BASE DEPTH (A)

BASE WIDTH (B)

CAP DEPTH (C)

BATTER

GRAVEL DEPTH (D)

NOTE: CONTRACTOR MAY ENCOUNTER PLASTIC SHEETING EXTENDING BEYOND PAD PERIMETER IF FINAL GRADING & PAD PREPARATIONS ARE COMPLETE AT TIME OF CONSTRUCTION. RETAINING WALL CONTRACTOR RESPONSIBLE FOR PROPER COMPACTION OF WALL BACKFILL TO MEET FOUNDATION SUBGRADE REQUIREMENTS. COMPACTED CLAY BACKFILL. COMPACTION TO REMAIN CONSISTENT WITH GEOTECHNICAL REQUIREMENTS FOR SUBGRADE IMPROVEMENT PROCEDURES. ightarrowINSTALL 8"X8"X8" DRAIN POCKET AT BACK OF EACH WEEP HOLE. DRAIN ROCK TO BE COMPOSED OF CLEAN $2^{"}-4"$ DIAMETER GRANULAR ROCK. WRAP WITH FILTER FABRIC. - ENDS OF WEEP HOLES WRAPPED WITH FILTER FABRIC F-10826 TE OF TEL RICHARD REAVES 19: 91128 CENSEON ONAL ENGINE REAVES CONSULTING SCALE: N.T.S. REAVES CONSULTING 831 ARROWHEAD DRIVE PROSPER. TEXAS 75078 972.347.3908 April 18, 2019 PLAN REVIEW REVISIONS **REVISED PER CIVIL GRADING REVISIONS** TYPICAL RETAINING WALLS W/ 200 psf SURCHARGE & HORIZONTAL GRADE-DETAIL 3/S1 CONSTRUCTION REVISIONS 7' 8' 9' 10' 11' 105" 60" 64" 69" 84" 72" 84" 60" 84" 84" FULL FULL FULL FULL FULL **Retaining Wall Details** N/A N/A N/A N/A N/A LADERA ROCKWALL 14" 16" 18" 20" 22" SITE RETAINING WALLS-13' MAX

BY DATE

BY DATE

PROJECT

HRK-172

SHEET

S1 of 4

City of Rockwall, Rockwall County, Texas

RR 4/18/19