

# CLEAR CREEK COUNTY SHOOTING SPORTS PARK CLEAR CREEK COUNTY COLORADO

PROJECT LOCATION



VICINITY MAP

SCALE: 1" = 2,000'±



## PREPARED FOR:

CLEAR CREEK COUNTY  
405 ARGENTINE STREET  
GEORGETOWN, CO 80444

## PREPARED BY:

C.VARGAS & ASSOCIATES, LTD.  
CONSULTING ENGINEERS  
8808 ARLINGTON EXPRESSWAY  
JACKSONVILLE, FLORIDA 32211  
PHONE: (904) 722-2294  
E-MAIL cvargas@cvaltd.com

FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY SHOOTING SPORTS PARK

C. VARGAS & ASSOCIATES, LTD.  
CONSULTING ENGINEERS  
8808 ARLINGTON EXPRESSWAY  
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# ABBREVIATIONS

|        |                                       |          |                                       |        |                                        |
|--------|---------------------------------------|----------|---------------------------------------|--------|----------------------------------------|
| A      | ARC LENGTH                            | F        | FIELD                                 | P.O.E. | POINT OF ENDING                        |
| AC.    | ACRE                                  | FT.      | FEET                                  | P.O.C. | POINT ON CURVE                         |
| ACT.   | ACTUAL DATA                           | F/H      | FIRE HYDRANT                          | P.O.T. | POINT OF TERMINUS                      |
| ADD'L  | ADDITIONAL                            | F.B.     | FIELD BOOK                            | P.O.T. | POINT ON TANGENT                       |
| A.P.   | ANGLE POINT                           | F.L.     | FIRING LINE                           | P.V.C. | POLYVINYL CHLORIDE                     |
| AUTH.  | AUTHORITY                             | F/L      | FLOW LINE                             | P.P.   | POWER POLE                             |
| AVE.   | AVENUE                                | FD.      | FOUND                                 | P.L.S. | PROFESSIONAL LAND SURVEYOR             |
| BK.    | BOOK                                  | FRM.     | FRAME                                 | PROJ.  | PROJECT                                |
| B/L    | BASE LINE                             | GOV.     | GOVERNMENT                            | PL     | PROPERTY LINE                          |
| B.M.   | BENCHMARK                             | GOV.     | GOVERNMENT                            | PROP.  | PROPOSED                               |
| BLK.   | BLOCK                                 | H/W      | HEADWALL                              | R      | RADIUS                                 |
| BRK.   | BRICK                                 | N.C.     | HIGH CURB                             | R.     | RECORD                                 |
| BLDG.  | BUILDING                              | HWY.     | HIGHWAY                               | R.C.P. | REINFORCED CONCRETE PIPE               |
| BLVD.  | BOULEVARD                             | INV.     | INVERT                                | RD.    | ROAD                                   |
| B.R.L. | BUILDING RESTRICTION LINE             | I.P.     | IRON PIPE                             | R.E.   | REAL ESTATE NUMBER                     |
| CAL.   | CALCULATED                            | LN.      | LANE                                  | REC.   | RECORD                                 |
| CA     | CAMPOR                                | LT.      | LEFT                                  | REF.   | REFERENCE                              |
| C.I.   | CAST IRON                             | L        | LENGTH OF CURVE                       | RES.   | RESIDENCE                              |
| C.B.   | CATCH BASIN                           | L.W.     | LIGHT WOOD                            | RP     | RADIUS POINT                           |
| C      | CEDAR TREE                            | L.A.     | LIMITED ACCESS                        | RT.    | RIGHT                                  |
| C.L.   | CENTER LINE                           | L.O.C.   | LIMITS OF CONVEYANCE                  | R/R    | RAILROAD                               |
| C.L.F. | CHAIN LINK FENCE                      | LK.      | LINK                                  | R/W    | RIGHT OF WAY                           |
| CH     | CHAINED                               | L.C.     | LOW CURB                              | S      | SOUTH                                  |
| CH.    | CHORD LENGTH                          | M        | MAGNOLIA                              | SA     | SANITARY                               |
| C.E.P. | CITY ELEC. POLE                       | M/H      | MANHOLE                               | SEC.   | SECTION                                |
| C.M.U. | CONCRETE MANSORY UNIT                 | MTR.     | METER                                 | SP.    | SPACES                                 |
| CH.    | CHAINS                                | M.O.     | MIDDLE ORDINATE                       | SQ.    | SQUARE                                 |
| CIR.   | CIRCLE                                | MON.     | MONUMENT                              | S.R.D. | STATE ROAD DEPARTMENT                  |
| C.O.   | CLEANOUT                              | N&C      | NAIL AND CAP                          | ST     | STREET                                 |
| CONC.  | CONCRETE                              | N&T      | NAIL AND TAP                          | ST     | STATE                                  |
| CONS'T | CONSTRUCTION                          | N&W      | NAIL AND WASHER                       | STA.   | STATION                                |
| COR.   | CORNER                                | N.G.V.D. | NATIONAL GEODETIC VERTICAL DATUM      | STY.   | STORY                                  |
| C.M.P. | CORRUGATED METAL PIPE                 | N.V.D.   | NATIONAL VERTICAL DATUM               | SUB'D. | SUBDIVISION                            |
| CT.    | COURT                                 | N        | NORTH                                 | S/L    | SURVEY LINE                            |
| CTR.   | CENTER                                | N.T.S.   | NOT TO SCALE                          | S/W    | SIDEWALK                               |
| C&G    | CURB AND GUTTER                       | NO.      | NUMBER                                | T      | TANGENT LENGTH                         |
| D      | DEGREE OF CURVE                       | O        | OAK TREE                              | T.     | TOWNSHIP                               |
| D.B.   | DEED BOOK                             | O.R.V.   | OFFICIAL RECORDS VOLUME               | TB     | TANGENT BEARING                        |
| DEF.   | DEFLECTION                            | O-H      | OVERHEAD                              | T.B.M. | TEMPORARY BENCHMARK                    |
| D.E.P. | DEPARTMENT OF ENVIRONMENTAL RESOURCES | PA       | PALM                                  | T.C.E. | TEMPORARY CONSTRUCTION EASEMENT        |
| D.N.R. | DEPARTMENT OF NATURAL RESOURCES       | P.G.     | PAGE                                  | TELE.  | TELEPHONE                              |
| D.O.T. | DEPARTMENT OF TRANSPORTATION          | P.V.M'T  | PAVEMENT PERMANENT REFERENCE MONUMENT | TRAV.  | TRAVERSE                               |
| DR.    | DRIVE                                 | P.R.M.   | PERMANENT REFERENCE MONUMENT          | T/L    | TRAVERSE LINE                          |
| D/W    | DRIVEWAY                              | PL       | PLACE                                 | T.L.   | TARGET LINE                            |
| E      | EAST                                  | PLAT     | PLAT                                  | U-G    | UNDERGROUND                            |
| E.A.   | ELECTRIC AUTHORITY                    | P.B.     | PLAT BOOK                             | USC&GS | UNITED STATE COAST AND GEODETIC SURVEY |
| EDM    | ELECTRONIC DISTANCE METER             | P.O.B.   | POINT OF BEGINNING                    | UTIL.  | UTILITY                                |
| ELEC.  | ELECTRIC                              | P.O.C.   | POINT OF COMMENCEMENT                 | W      | WEST                                   |
| ELEV.  | ELEVATION                             | P.C.C.   | POINT OF COMPOUND CURVE               | W/M    | WATER METER                            |
| E.P.   | EDGE OF PAVEMENT                      | P.C.     | POINT OF CURVATURE                    | W/V    | WATER VALVE                            |
| EQ.    | EQUATION                              | P.I.     | POINT OF INTERSECTION                 | W.W.D. | WATER WORKS DEPARTMENT                 |
| ESM'T  | EASEMENT                              | P.R.C.   | POINT OF REVERSE CURVE                | YD     | YARD                                   |
| EXST.  | EXISTING                              | P.T.     | POINT OF TANGENCY                     |        |                                        |

# GENERAL NOTES

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| <b>FIRING RANGE LOCATIONS</b> |                               |          |
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| FR-06                         | LONGITUDNAL SECTION D RANGE 4 | 14 of 25 |
| FR-07                         | LONGITUDNAL SECTION E RANGE 5 | 15 of 25 |

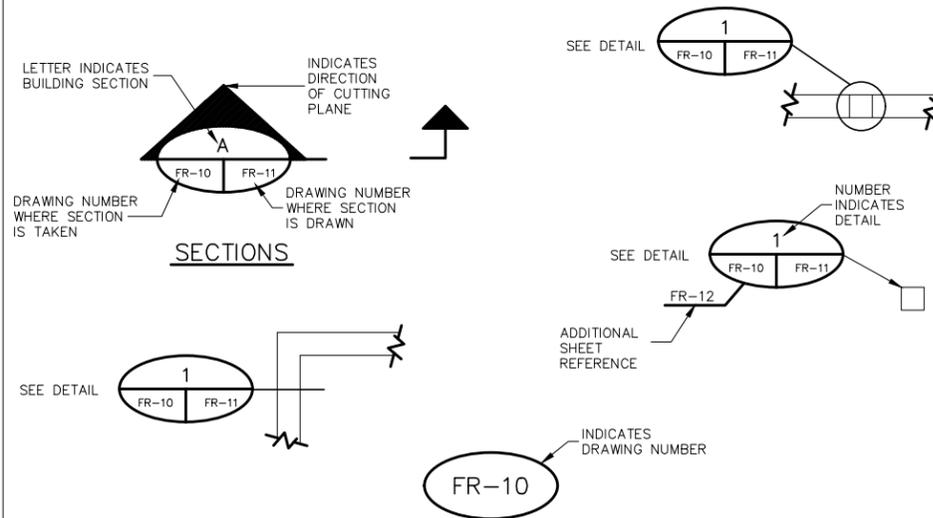
| <b>FIRING RANGE</b> |                                                     |          |
|---------------------|-----------------------------------------------------|----------|
| FR-10               | RANGES 4 AND 5 COVERED FIRING LINE PLAN AND DETAILS | 16 of 25 |
| FR-11               | COVERED FIRING LINE DETAILS AND SECTIONS            | 17 of 25 |
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| <b>ARCHITECTURAL</b> |                      |          |
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| A-1                  | CLUBHOUSE FLOOR PLAN | 24 of 25 |
| <b>CIVIL BY JVA</b>  |                      |          |
| C-1                  | CIVIL SITE PLAN      | 25 of 25 |

# SYMBOLS

|   |                     |
|---|---------------------|
| └ | INDICATES 90° ANGLE |
| # | DENOTES NUMBER      |
| Δ | DELTA ANGLE         |
| ° | DEGREES             |
| ' | MINUTES (ANGLES)    |
| " | SECONDS (ANGLES)    |
| " | INCHES (DISTANCE)   |
| ' | FEET (DISTANCES)    |

# DRAWING SYMBOLS



FINAL SCHEMATIC SET DATED 12/08/2020

LEGEND, INDEX OF DRAWINGS, ABBREVIATIONS, AND GENERAL NOTES

CLEAR CREEK COUNTY SPORTS SHOOTING COMPLEX CLEAR CREEK COUNTY, COLORADO

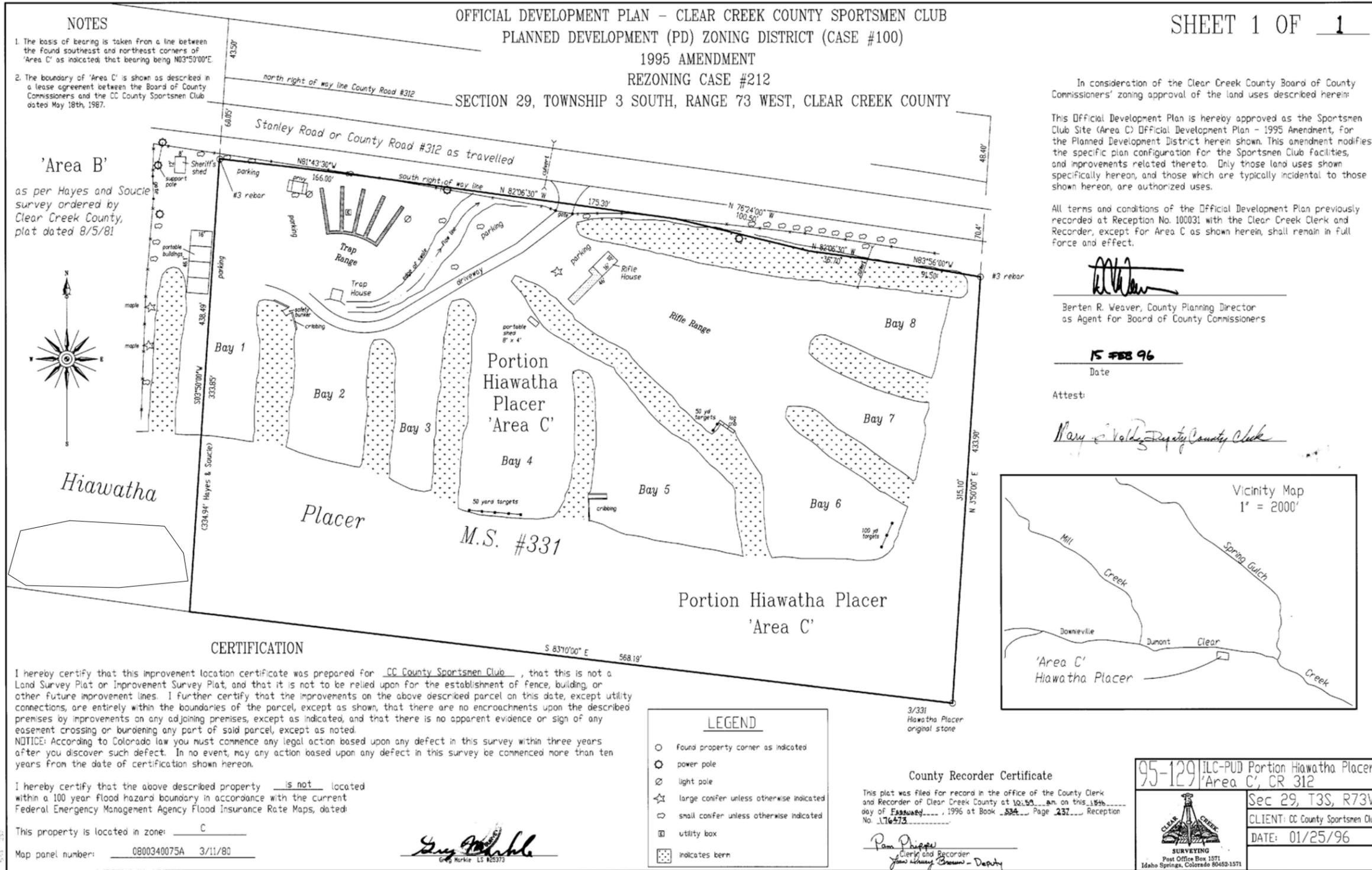
C. VARGAS & ASSOCIATES, LTD.

DRAWN BY: DN  
SUBMITTED BY: \_\_\_\_\_  
CHECKED BY: CLARK VARGAS  
DATE: \_\_\_\_\_

C.A.D.D. FILE  
PROJECT NO. 19011.01  
SHEET 2 OF 25

G-2

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SHEET 1 OF 1

In consideration of the Clear Creek County Board of County Commissioners' zoning approval of the land uses described herein:

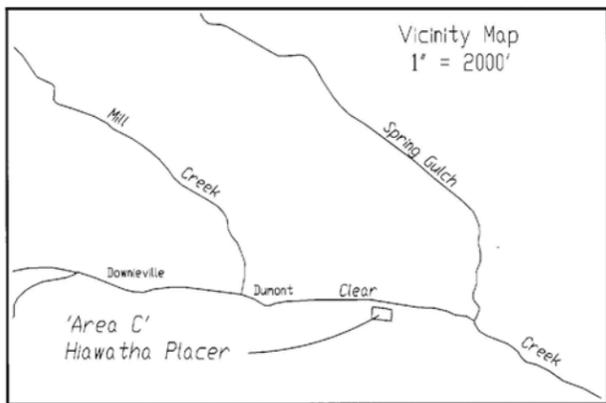
This Official Development Plan is hereby approved as the Sportsmen Club Site (Area C) Official Development Plan - 1995 Amendment, for the Planned Development District herein shown. This amendment modifies the specific plan configuration for the Sportsmen Club facilities, and improvements related thereto. Only those land uses shown specifically hereon, and those which are typically incidental to those shown hereon, are authorized uses.

All terms and conditions of the Official Development Plan previously recorded at Reception No. 100031 with the Clear Creek Clerk and Recorder, except for Area C as shown herein, shall remain in full force and effect.

*Berten R. Weaver*  
Berten R. Weaver, County Planning Director  
as Agent for Board of County Commissioners

15 FEB 96  
Date

Attest:  
*Mary E. Valdez*  
Mary E. Valdez, Deputy County Clerk



FINAL SCHEMATIC SET DATED 12/08/2020

SURVEY 'AREA C'  
ILC - PUD PORTION  
HIAWATHA PLACER

CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO

C. VARGAS & ASSOCIATES, LTD.  
1000 ARLINGTON EXPRESSWAY  
DENVER, COLORADO 80202  
PHONE 303.733.2254 FAX 303.733.2297

PROJECT NO. 19011.01  
SHEET 3 OF 25

NOT APPROVED FOR CONSTRUCTION DATE: \_\_\_\_\_ REG. ENGR. NO. \_\_\_\_\_

DATE: \_\_\_\_\_

DO NOT SCALE DRAWINGS

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
|     |          |      |    |

G-3

ILC-PUD PORTION HIAWATHA PLACER 'AREA C' SURVEY

SCALE: 1" = 40'

GRAPHIC SCALE



( IN FEET )  
1 inch = 40 ft.

# TOPOGRAPHIC MAP

A PART OF THE HIAWATHA PLACER, M.S. No. 331, AREA C  
 LOCATED IN SECTION 29,  
 TOWNSHIP 3 SOUTH, RANGE 73 WEST OF THE 6TH PRINCIPAL MERIDIAN  
 COUNTY OF CLEAR CREEK, STATE OF COLORADO

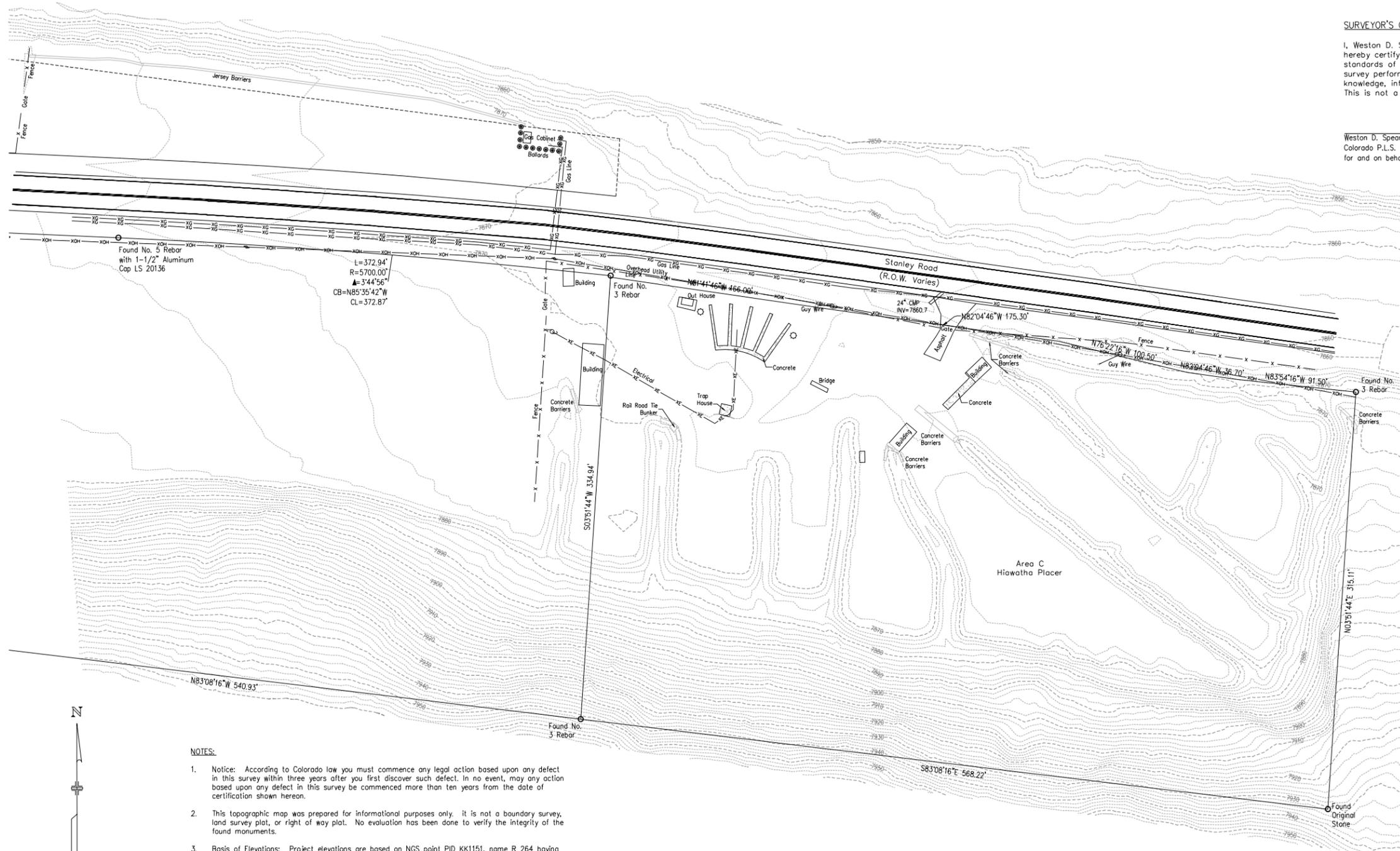
**DESCRIPTION:**

A part of the Hiawatha Placer, M.S. No. 331, Area C, located in Section 29, Township 3 South, Range, 73 West of the 6th Principal Meridian, County of Clear Creek, State of Colorado

**SURVEYOR'S CERTIFICATION:**

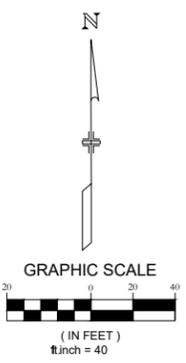
I, Weston D. Spears, a Professional Land Surveyor registered in the State of Colorado, hereby certify that this topographic survey was made in accordance with applicable standards of practice, was prepared under my responsible charge based on a field survey performed on September 13, 2020 and to the best of my professional knowledge, information and belief is an accurate representation of that field survey. This is not a guaranty or warranty, either expressed or implied.

Weston D. Spears, Professional Land Surveyor  
 Colorado P.L.S. No. 38056  
 for and on behalf of Weston Surveying



**NOTES:**

1. Notice: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years from the date of certification shown hereon.
2. This topographic map was prepared for informational purposes only. It is not a boundary survey, land survey plat, or right of way plat. No evaluation has been done to verify the integrity of the found monuments.
3. Basis of Elevations: Project elevations are based on NGS point PID KK1151, name R 264 having a NAVD 88 elevation of 7948.78 feet.
4. Basis of Bearings: Bearings are grid, based on the Colorado State Plane Coordinate System, Central Zone, North American Datum 1983 from gps observations having the location derived from an opus solution.



G-4

G:\Users\Weston\OneDrive\Documents\Survey\Projects\2020\20GEN25\_S29\_135\_R73W\_Shooting\_Complex\Office\CAD\Bases\Files\20GEN25\_TOPO.dwg September 16, 2020 - 4:26pm

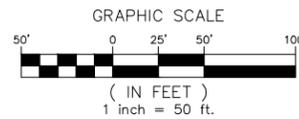
|                                                                                                                                                                                      |  |                                                                                  |                                                                                                     |                                                                                |                             |                        |                |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|------------------------|----------------|--------------------|
| <b>REVISIONS</b><br>Date _____ By _____ Description _____<br>Date _____ By _____ Description _____<br>Date _____ By _____ Description _____<br>Date _____ By _____ Description _____ |  | Field Date _____ TECH _____<br>Party Chief _____ PM _____<br>PLS _____ WDS _____ | CLIENT<br>CLEAR CREEK COUNTY SPORTS<br>SHOOTING COMPLEX<br>COUNTY OF CLEAR CREEK, STATE OF COLORADO | WESTON SURVEYING<br>P.O. BOX 3184<br>IDAHO SPRINGS, CO 80452<br>(303) 681-1519 | TITLE<br>TOPOGRAPHIC SURVEY | PROJECT NO.<br>20GEN25 | SHEET NO.<br>1 | NO. OF SHEETS<br>1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------|------------------------|----------------|--------------------|

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**EXISTING RANGES SITE PLAN**

SCALE: 1" = 50'



**NOTES:**

1. SEE DRAWING G-8 FOR RANGE RECOMMENDATIONS.
2. IMAGE SHOWN HEREON WAS TAKEN FROM GOOGLE EARTH.
3. ADJOINING PROPERTY OWNER INFORMATION WAS TAKEN FROM THE CLEAR CREEK COUNTY PROPERTY APPRAISER'S WEBSITE.

G-5

**FINAL SCHEMATIC SET DATED 12/08/2020**

**C. VARGAS & ASSOCIATES, LTD.**  
1000 ARLINGTON EXPRESSWAY  
 BOULDER, COLORADO 80504  
 PHONE 303.440.2254 FAX 303.440.2297

PROJECT NO. 19011.01  
 SHEET 5 OF 25

DATE: \_\_\_\_\_  
 REG. ENGR. NO. \_\_\_\_\_

CLEAR CREEK COUNTY  
 SPORTS SHOOTING COMPLEX  
 CLEAR CREEK COUNTY,  
 COLORADO

EXISTING RANGES  
 SITE PLAN

| NO. | REVISION | DATE | BY |
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NOT APPROVED FOR CONSTRUCTION DATE: \_\_\_\_\_ DO NOT SCALE DRAWINGS



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G-7

EXPECTED RANGE REMEDIATION AREAS

NOT TO SCALE



NOTE: DRAWING WAS TAKEN FROM A SOUND STUDY PREPARED BY WAVE ENGINEERING.

FINAL SCHEMATIC SET DATED 12/08/2020

**C. VARGAS & ASSOCIATES, LTD.**  
 8008 ARLINGTON EXPRESSWAY  
 FORT COLLINS, COLORADO 80526  
 PHONE 970.722.2254 FAX 970.722.2297

DRAWN BY: DN CHECKED BY: CLARK VARGAS DATE: \_\_\_\_\_  
 SUBMITTED BY: \_\_\_\_\_ REG. ENGR. NO. \_\_\_\_\_

C.A.D.D. FILE \_\_\_\_\_  
 PROJECT NO. 19011.01  
 SHEET 7 OF 25

CLEAR CREEK COUNTY  
 SPORTS SHOOTING COMPLEX  
 CLEAR CREEK COUNTY,  
 COLORADO

EXPECTED RANGE  
 REMEDIATION AREAS

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
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G-7

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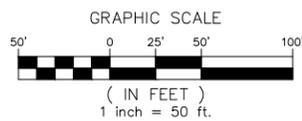


**LEGEND**

- 2 FT. CONTOUR
- 10 FT. CONTOUR
- GRANT BOUNDARY
- PARCEL BOUNDARY

**PROPOSED MASTER PLAN**

SCALE: 1" = 50'



**PARKING**

(30±) + 19 ASSURED PARKING 49±  
IF CDOT AGREES 18  
**TOTAL 67±**

NOTE:  
1. CONTOURS AND PARCEL LINES SHOWN HEREON WERE SUPPLIED BY CLEAR CREEK COUNTY MAPPING DEPARTMENT ON 11/14/19.

2. 70 REGULAR PARKING SPACES & 2 HANDICAPPED.

**PROPOSED PROGRAM SPACE**

| SPACE #      | ACTIVITY                               | # LANES   | LANE SPACE |
|--------------|----------------------------------------|-----------|------------|
| 1            | 45' ACTION BAY A                       | 9         | AT 5'      |
| 2            | 100 YD. STATIC AND DYNAMIC             | 12        | AT 6'      |
| 3            | 35' ACTION BAY B                       | 7         | AT 5'      |
| 4            | 50 YD. RIFLE/PISTOL STATIC AND DYNAMIC | 24        | AT 4'      |
| 5            | 25 YD. PISTOL STATIC AND DYNAMIC       | 9         | AT 4'      |
| <b>TOTAL</b> |                                        | <b>61</b> |            |

**PARKING: 67**

G-8

**FINAL SCHEMATIC SET DATED 12/08/2020**

**CLEAR CREEK COUNTY SPORTS SHOOTING COMPLEX CLEAR CREEK COUNTY, COLORADO**

**PROPOSED MASTER PLAN**

**C. VARGAS & ASSOCIATES, LTD.**

1908 ARLINGTON EXPRESSWAY  
BOULDER, CO 80501  
PHONE 303.440.2254 FAX 303.440.2297

C.A.D.D. FILE

PROJECT NO. 19011.01

SHEET 8 OF 25

DRAWN BY: DN  
SUBMITTED BY: \_\_\_\_\_  
CHECKED BY: CLARK VARGAS  
DATE: \_\_\_\_\_

REG. ENGR. NO. \_\_\_\_\_  
DATE: \_\_\_\_\_

APPROVED FOR CONSTRUCTION DATE: \_\_\_\_\_

| NO. | REVISION | DATE | BY |
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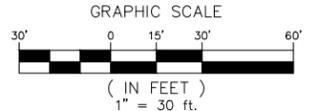
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PROPOSED MASTER PLAN  
SCALE: 1" = 30'



NOTE: SEE CIVIL DWG C-1 FOR WASTEWATER.

FR-01

FINAL SCHEMATIC SET DATED 12/08/2020

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
|     |          |      |    |
|     |          |      |    |
|     |          |      |    |

PROPOSED  
MASTER PLAN EAST

CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO

C. VARGAS & ASSOCIATES, LTD.  
1901 ARLINGTON EXPRESSWAY  
BOULDER, CO 80501  
PHONE 970.722.2254 FAX 970.722.2297

DRAWN BY: DN  
CHECKED BY: CLARK VARGAS  
DATE: \_\_\_\_\_  
SUBMITTED BY: \_\_\_\_\_  
REG. ENGR. NO.: \_\_\_\_\_

C.A.D.D. FILE  
PROJECT NO. 19011.01  
SHEET 9 OF 25

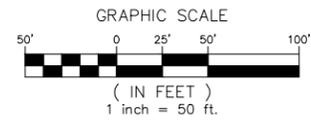
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**PROPOSED MASTER PLAN**  
SCALE: 1" = 30'



NOTE: SEE DWG C-1  
FOR COORDINATION.

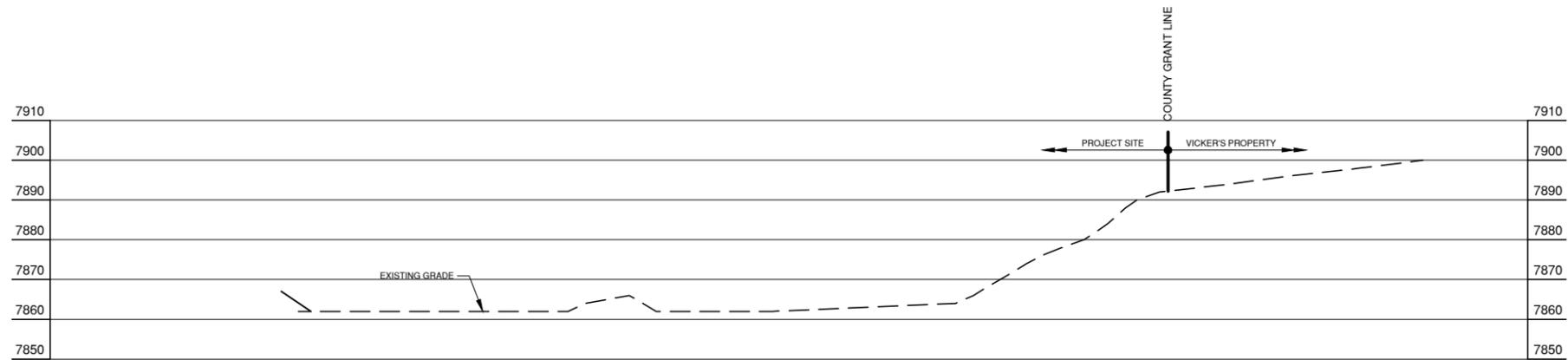
FR-02

**FINAL SCHEMATIC SET DATED 12/08/2020**

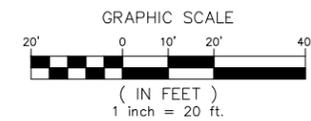
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| <b>C. VARGAS &amp; ASSOCIATES, LTD.</b><br><small>1000 ARLINGTON EXPRESSWAY<br/>         BOULDER, COLORADO 80501<br/>         PHONE 970.722.2254 FAX 970.722.2297</small> |  | <b>PROPOSED<br/>MASTER PLAN WEST</b> |      |
| CLEAR CREEK COUNTY<br>SPORTS SHOOTING COMPLEX<br>CLEAR CREEK COUNTY,<br>COLORADO                                                                                          |  | NO.                                  | DATE |
| DRAWN BY: DN<br>CHECKED BY: CLARK VARGAS<br>SUBMITTED BY: _____<br>DATE: _____                                                                                            |  | REVISION                             | BY   |
| C.A.D.D. FILE<br>PROJECT NO.<br>19011.01<br>SHEET<br>10 OF 25                                                                                                             |  |                                      |      |

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SECTION **A**  
 SCALE: 1" = 20'  
 RANGE #1  
 ACTION BAY A



FR-03

FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY  
 SPORTS SHOOTING COMPLEX  
 CLEAR CREEK COUNTY,  
 COLORADO

LONGITUDINAL  
 SECTION A  
 RANGE 1

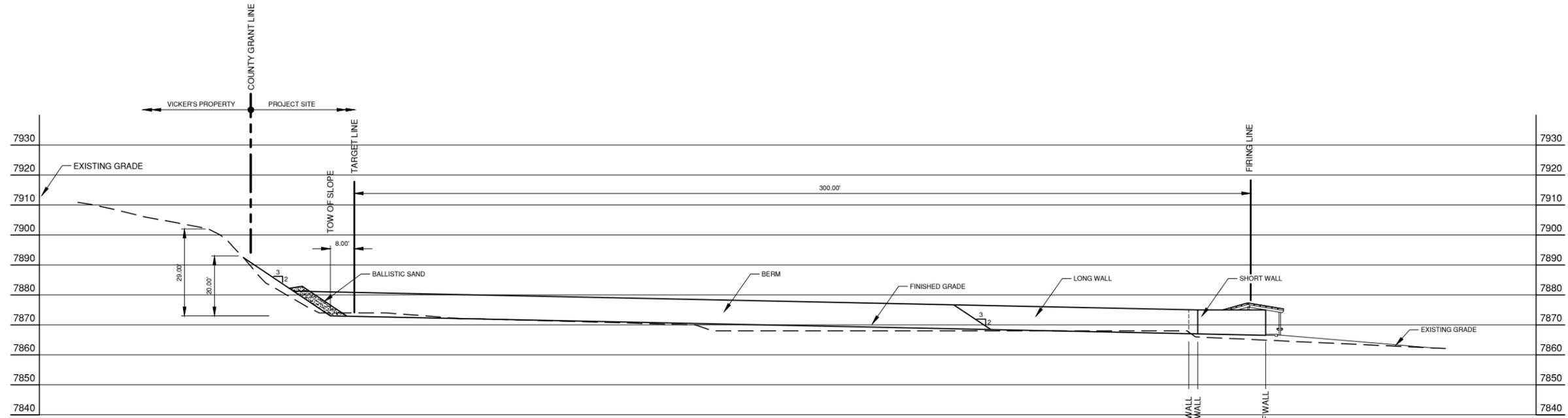
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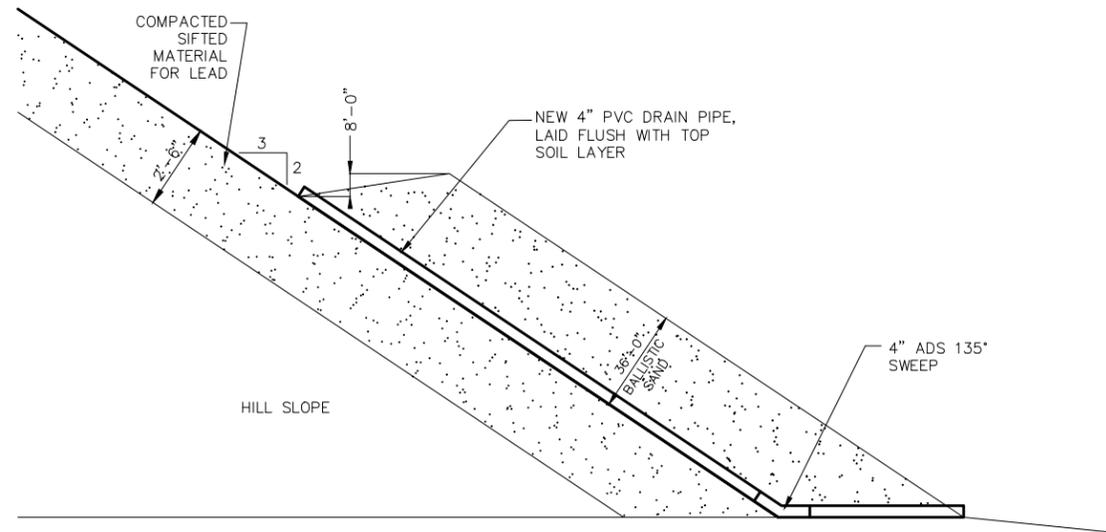
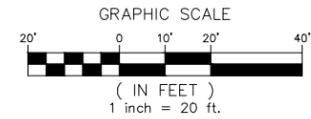
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 PROJECT NO. 19011.01  
 SHEET 11 OF 25

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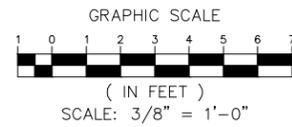
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SECTION B  
 SCALE: 1" = 20'  
 FR-01 FR-04  
 RANGE #2  
 100 YD. RANGE AT WALL AND SIDEBERM



BALLISTIC SAND DETAIL 1  
 SCALE: 3/8" = 1'-0"  
 FR-04 FR-04



FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY  
 SPORTS SHOOTING COMPLEX  
 CLEAR CREEK COUNTY,  
 COLORADO

LONGITUDINAL  
 SECTION B  
 RANGE 2

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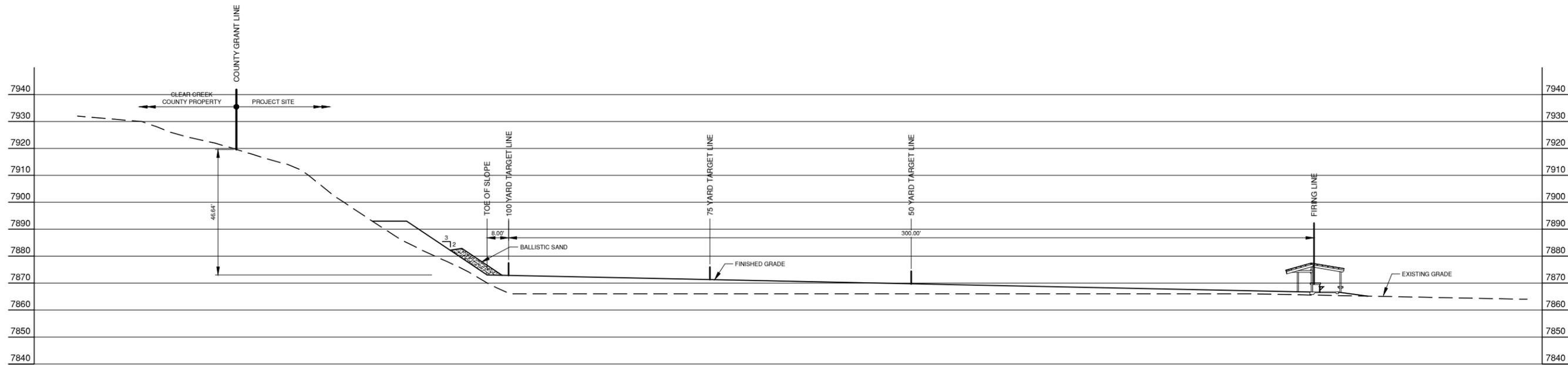
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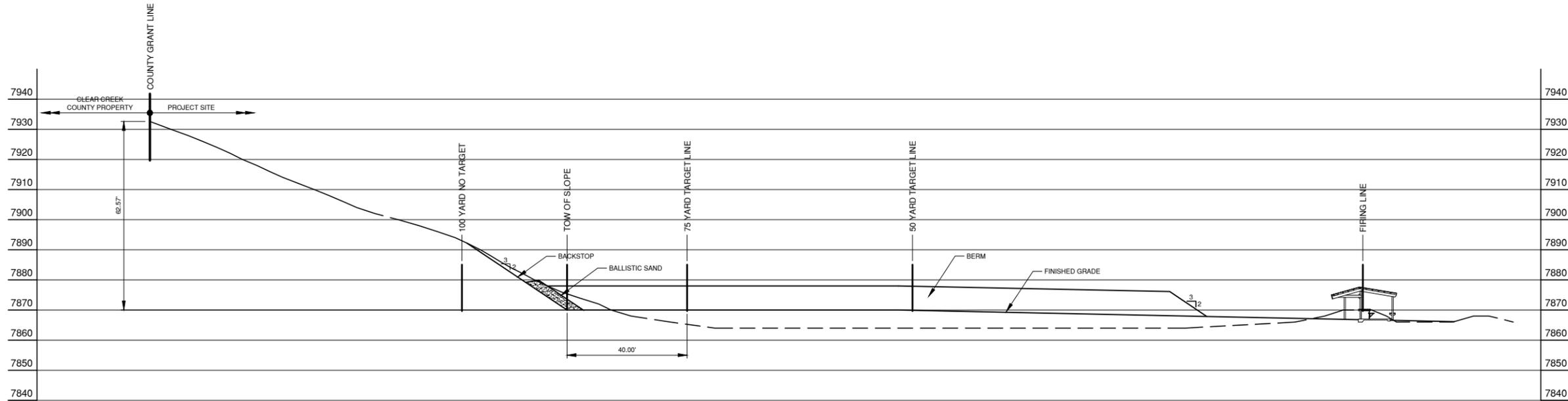
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 SHEET 12 OF 25

FR-04

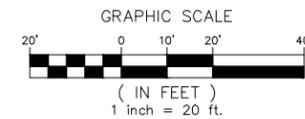
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SECTION C  
SCALE: 1" = 20'  
FR-01 | FR-05  
RANGE #2  
100 YD. RANGE



SECTION C-1  
SCALE: 1" = 20'  
FR-01 | FR-05  
RANGE #2  
100 YD. RANGE



FR-05

FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO

LONGITUDINAL  
SECTION C  
RANGE 2

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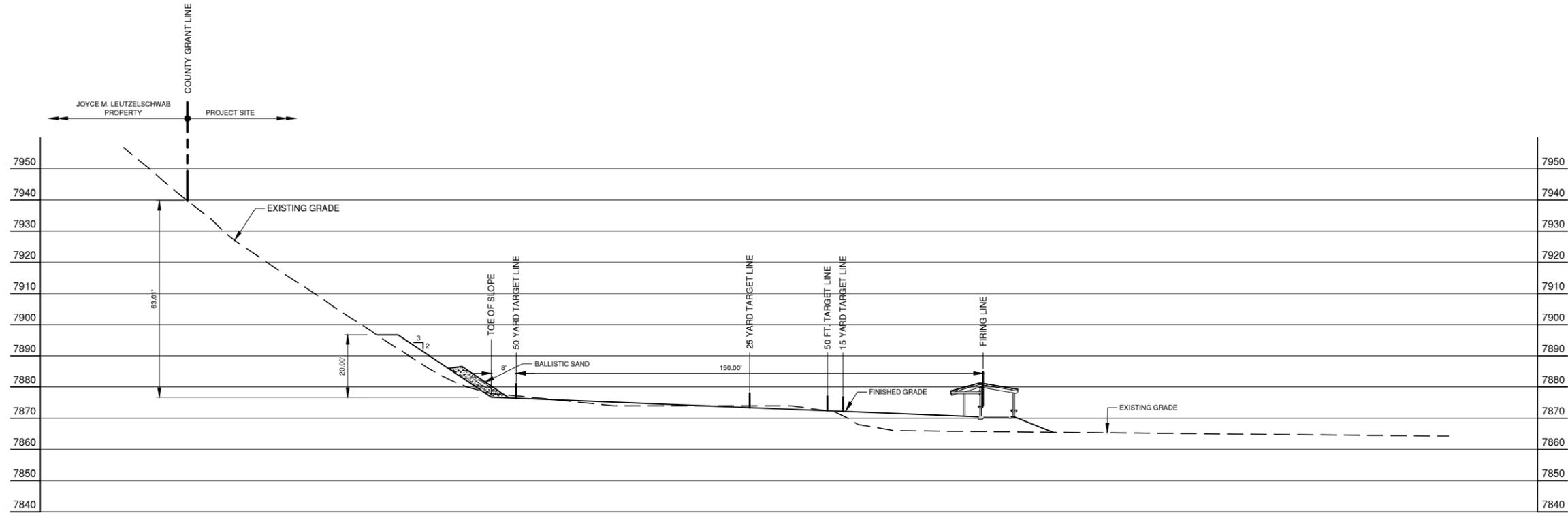
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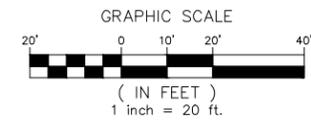
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SECTION D  
 SCALE: 1" = 20'  
 RANGE #4  
 50 YD. STATIC RANGE



FR-06

FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO

LONGITUDINAL  
SECTION D  
RANGE #4

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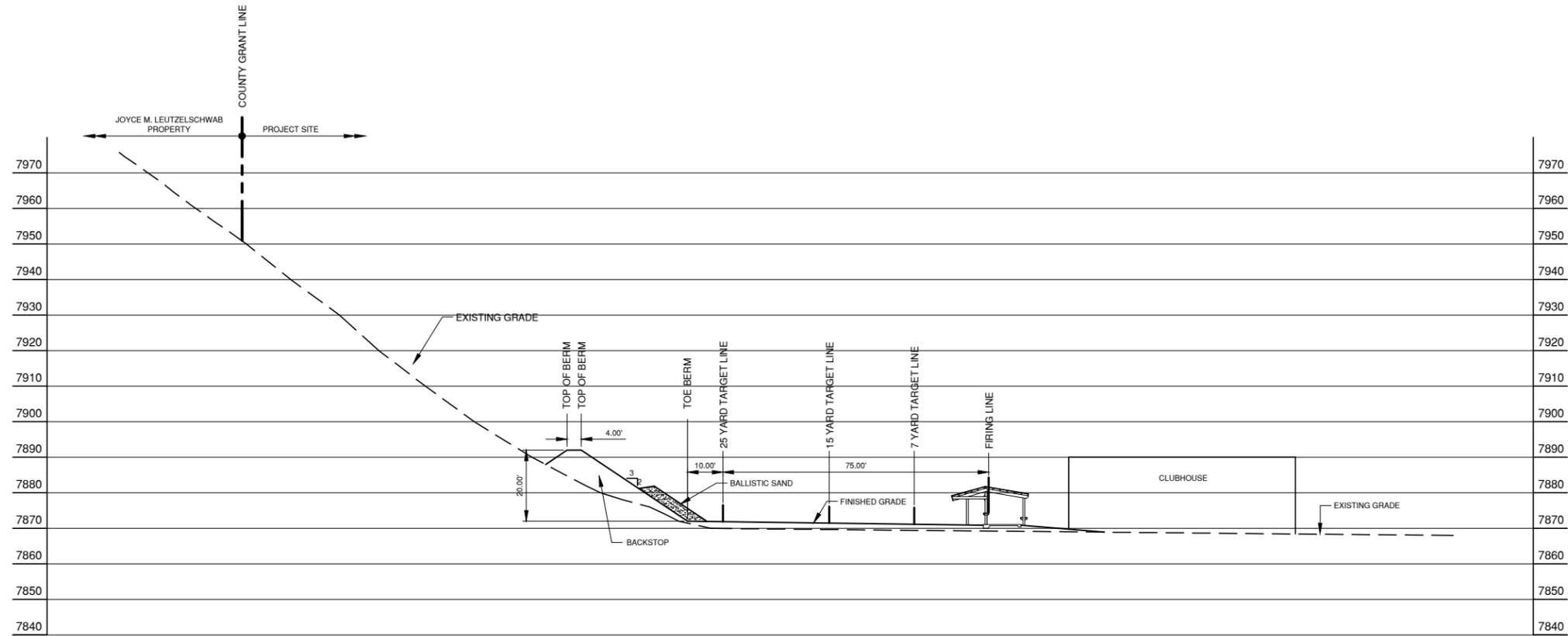
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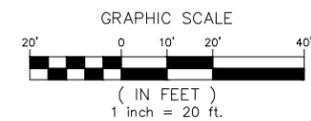
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SECTION **E**  
 SCALE: 1" = 20'  
 RANGE #4  
 25 YD. STATIC RANGE



FR-07

FINAL SCHEMATIC SET DATED 12/08/2020

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CLEAR CREEK COUNTY  
 SPORTS SHOOTING COMPLEX  
 CLEAR CREEK COUNTY,  
 COLORADO

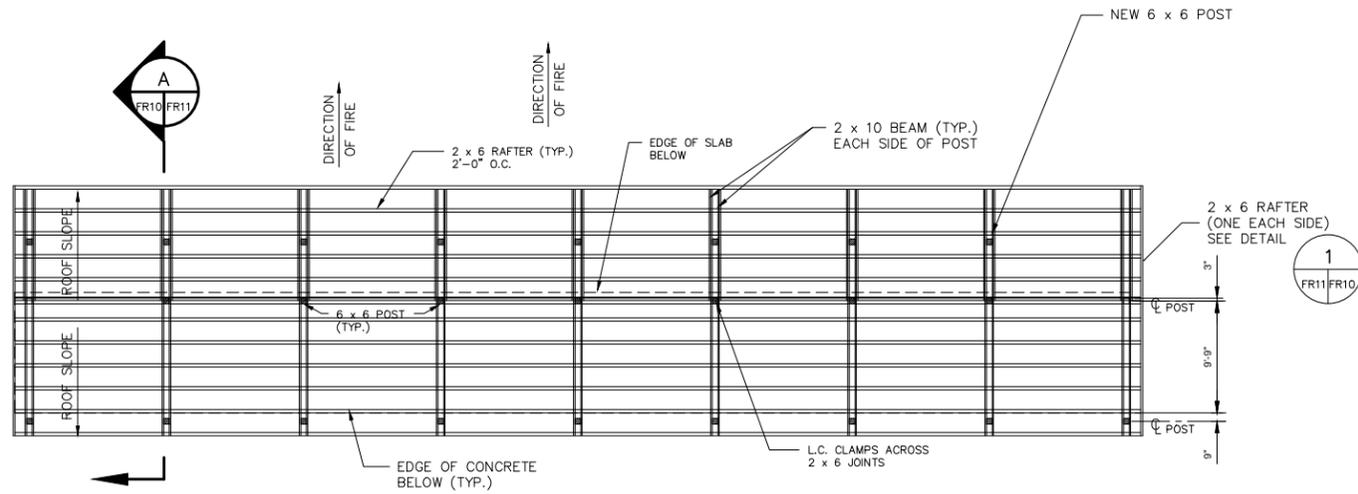
LONGITUDINAL  
 SECTION E  
 RANGE 5

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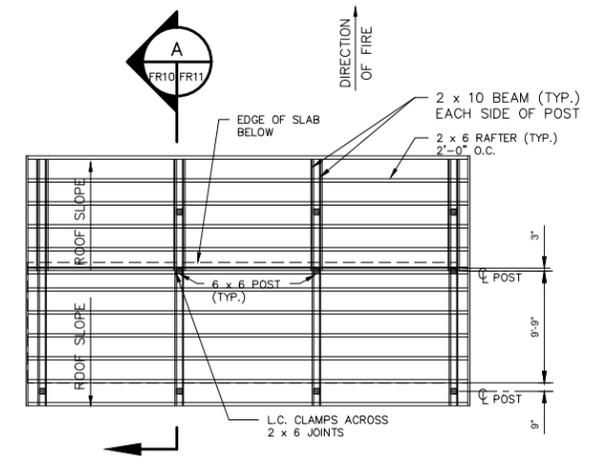
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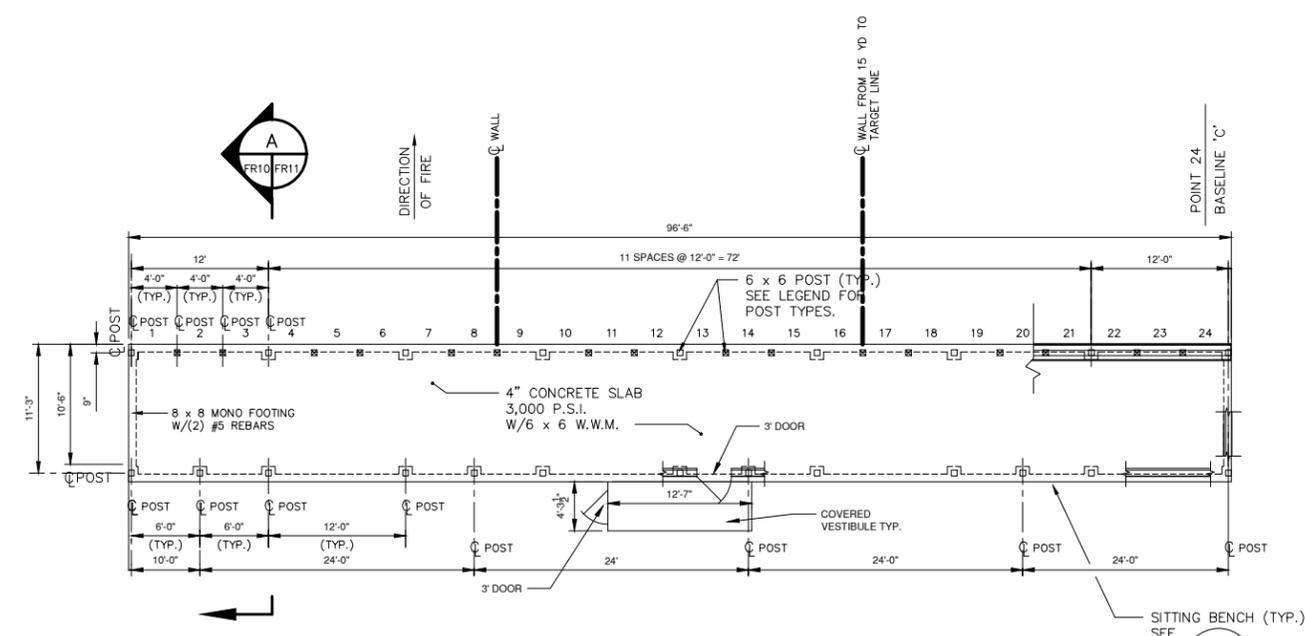
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**24 POSITION**  
**50 YD. RIFLE/PISTOL RANGE ROOF FRAMING PLAN**  
 SCALE: 1/8" = 1'-0"

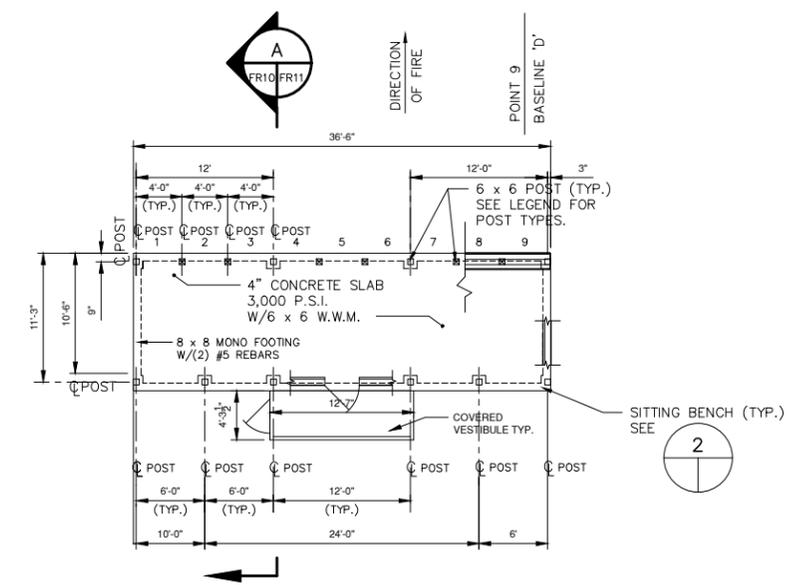


**9 POSITION**  
**25 YD. PISTOL RANGE ROOF FRAMING PLAN**  
 SCALE: 1/8" = 1'-0"



**24 POSITIONS RANGE 4**  
**50 YD. RIFLE/PISTOL RANGE FOUNDATION PLAN**  
 SCALE: 1/8" = 1'-0"

- LEGEND**
- SHORT POST FOR SHOOTING OR SITTING BENCH
  - ROOF SUPPORT POST



**9 POSITIONS RANGE 5**  
**25 YD. PISTOL RANGE FOUNDATION PLAN**  
 SCALE: 1/8" = 1'-0"

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**COVERED FIRING LINE  
 PLAN AND DETAILS**

**CLEAR CREEK COUNTY  
 SPORTS SHOOTING COMPLEX  
 CLEAR CREEK COUNTY,  
 COLORADO**

**C. VARGAS & ASSOCIATES, LTD.**  
 19011.01  
 BOISE ARIZONA EXPRESSWAY  
 BOISE, IDAHO 83725  
 PHONE 208-722-2254 FAX 208-722-2297

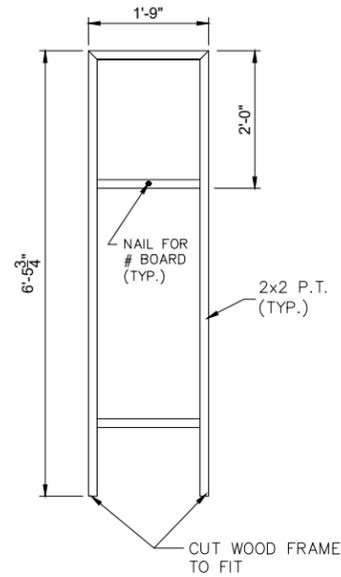
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FR-10

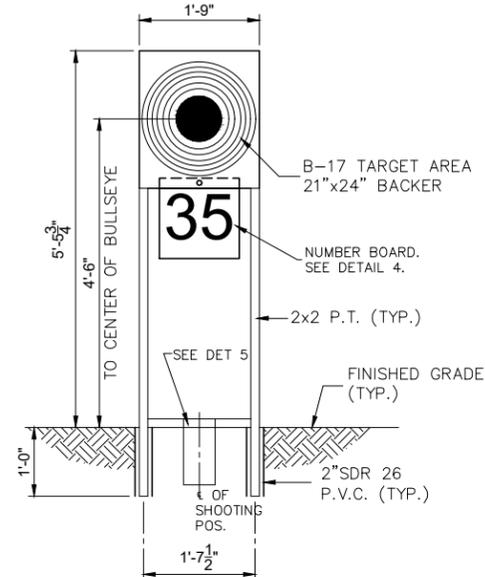




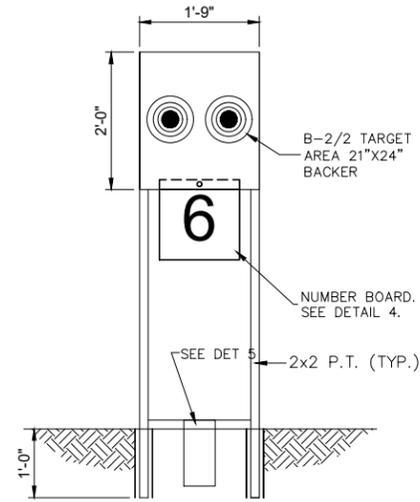
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**TARGET HOLDER FRAME**  
SCALE: 3/4" = 1'-0"  
1 R-073



**25 YD. TARGET HOLDER DETAIL**  
SCALE: 3/4" = 1'-0"  
2 R-073



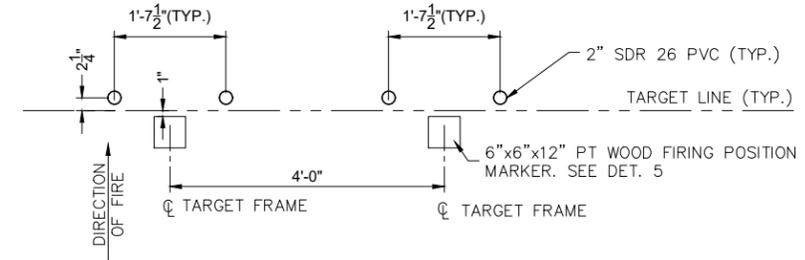
**50 FT. TARGET HOLDER DETAIL**  
SCALE: 3/4" = 1'-0"  
3 R-073

**TARGET NOTES:**

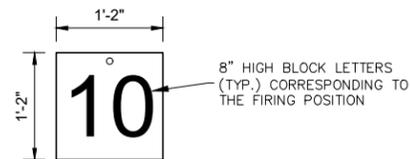
1. CARDBOARD TARGET BACKER TYPICAL SIZES:

| BACKER TYPE          | WIDTH (IN.) | HEIGHT (IN.) | REMARKS          |
|----------------------|-------------|--------------|------------------|
| BULLSEYE (B-6 & B-8) | 28          | 28           | PISTOL SLIDE-IN  |
| PPC (B-27)           | 35          | 45           | PISTOL SLIDE-IN  |
| TOMBSTONE            | 18          | 30           | STAPLED TO FRAME |
| I.P.S.I.C.           | 17 3/4      | 29 1/2       | STAPLED TO FRAME |

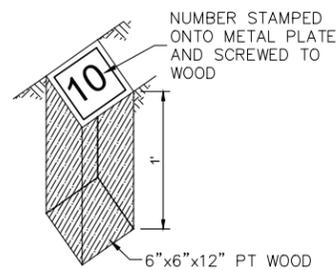
- THE CONTRACTOR SHALL CONFIRM WITH THE OWNER THE SIZE OF THE BACKERS THE OWNER INTENDS TO USE PRIOR THE MANUFACTURING TARGET HOLDERS.
- PROVIDE 80 TARGET HOLDERS FOR BOTH PISTOL RANGES.
- ALL WOOD SHOWN HEREON SHALL BE PRESSURE TREATED WOOD.



**PISTOL RANGE TARGET HOLDER PLAN**  
SCALE: 3/4" = 1'-0"



**NUMBER BOARD DETAIL**  
SCALE: 1" = 1'-0"  
4 R-073



**FIRING POSITION NUMBER MARKER**  
SCALE: 1 1/2" = 1'-0"  
5 R-073

PROVIDE THE FOLLOWING SETS OF NUMBER BOARDS:

- 2 SETS NUMBERED 1 TO 36 FOR 50 FT. PISTOL RANGE (1 SET FOR TARGET FRAMES AND 1 SET FOR MOUNTING OVERHEAD AT FIRING POSITION) AND 5 UNNUMBERED BOARDS AS SPARES
- 2 SETS NUMBERED 1 TO 24 FOR 25 YD. PISTOL RANGE (1 SET FOR TARGET FRAMES AND 1 SET FOR MOUNTING OVERHEAD AT FIRING POSITION) AND 5 UNNUMBERED BOARDS AS SPARES

FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY SPORTS SHOOTING COMPLEX CLEAR CREEK COUNTY, COLORADO

C. VARGAS & ASSOCIATES, LTD.

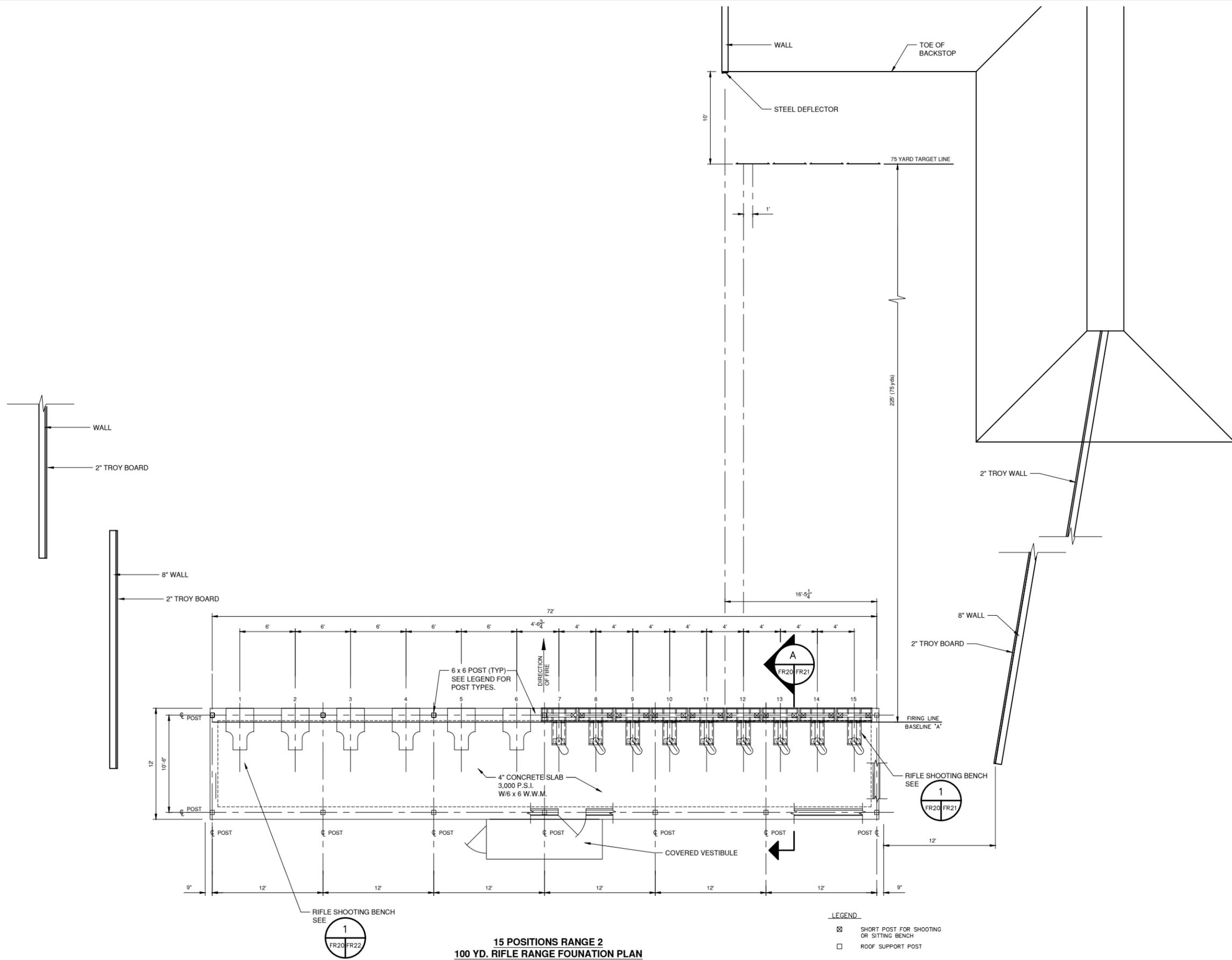
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PISTOL TARGET DETAILS

FR-13

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**15 POSITIONS RANGE 2  
100 YD. RIFLE RANGE FOUNDATION PLAN**

- LEGEND**
- ☒ SHORT POST FOR SHOOTING OR SITTING BENCH
  - ☐ ROOF SUPPORT POST

FR-20

**FINAL SCHEMATIC SET DATED 12/08/2020**

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**COVERED RIFLE  
FIRING LINE PLAN**

**CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO**

**C. VARGAS & ASSOCIATES, LTD.**

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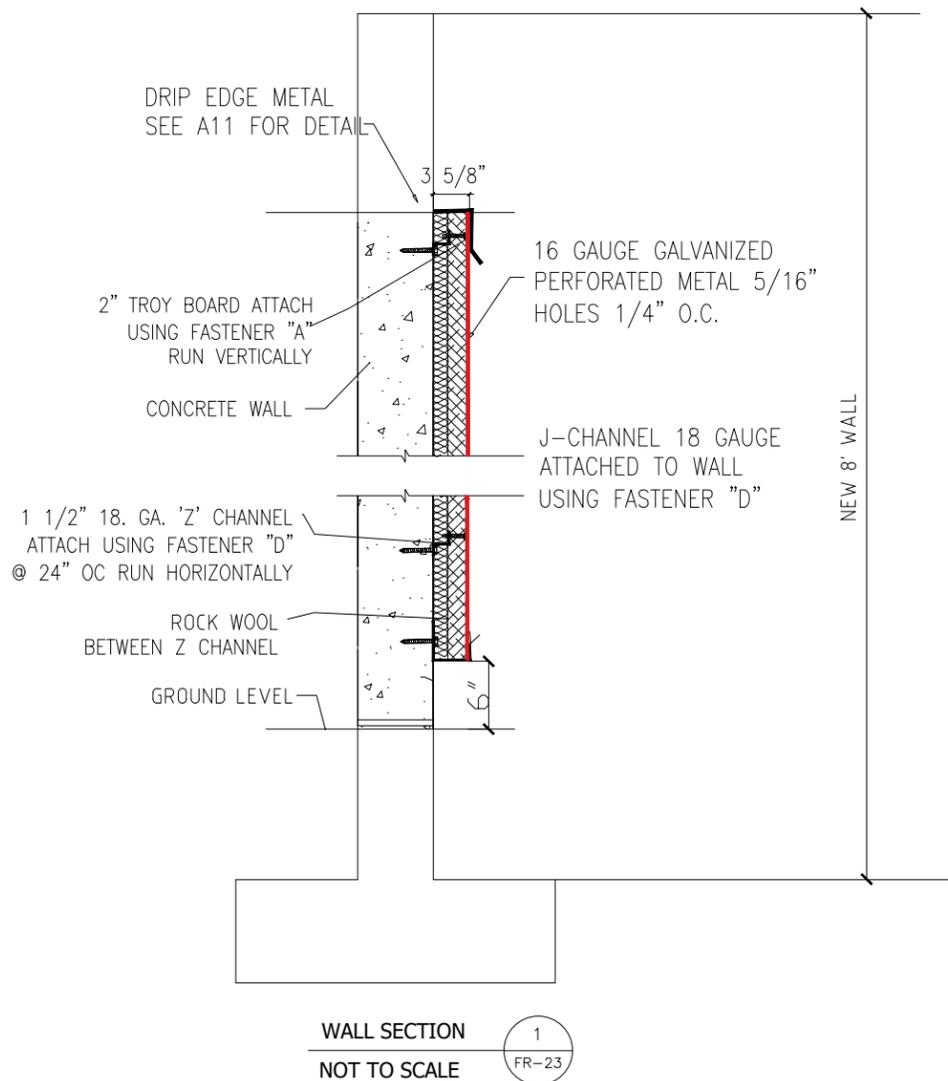
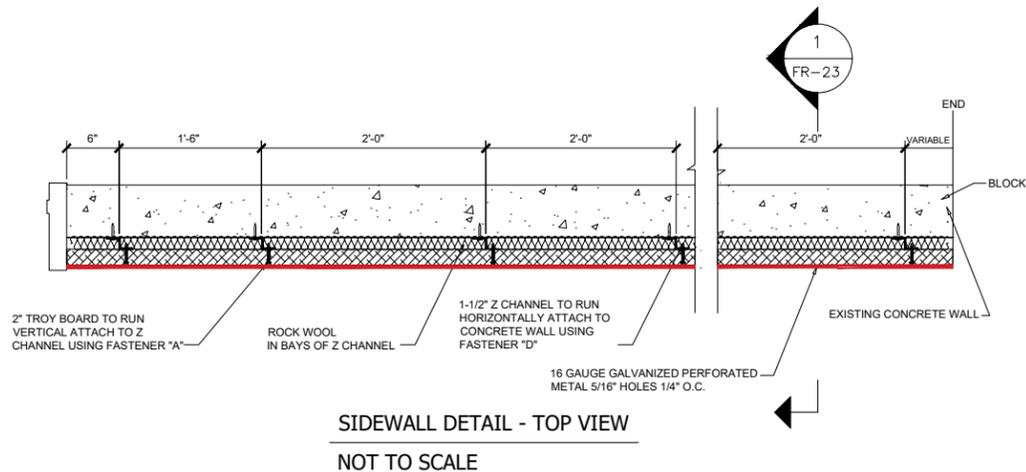
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**Wall Install Procedure (Troy Board HORIZONTAL finish)**

\* Note if "J-channel" is called out, it should be installed before furring channels in the same method.

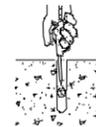
- On the sidewalls and starting from left to right, lay out for the furring channel will run VERTICAL. Spacing for furring strips is 2' o.c. Start layout at 6" from floor, or start of treatment, for first furring channel. Then follow spacing of 2' o.c. Attachment of furring channel to wall is per detail provided. The furring channels are attached to all walls to be covered with Troy System.
- Attachment of 2" Troy Wool to wall surface using a spray adhesive (3M-90 or equal). The spray adhesive is to hold the Troy Wool in place until the Troy Board material is attached. The 2' width of the Troy Wool should fit snug in the bays of the furring channel. Use a 10" serrated bread knife to cut the Troy Wool. Cover entire designated surface with Troy Wool.
- Start layout of Troy Board perpendicular to furring channel. Start the first course with the end (2' width side) of Troy Board flush against wall and the top side of Troy Board MUST BE LEVEL. DO NOT RELY ON FLOOR TO BE LEVEL. All cuts will be on floor side, thus leaving factory side for second course to set upon. DO NOT INSTALL CUT SIDE UP. Using the supplied Troy Board fasteners, attach Troy Board to furring strips with fasteners every 3" from all edges and side. Field placement is at every furring element in a straight line. There are typically 10 fasteners per Troy Board. Troy Board is a finish acoustic material. Make sure joints are tight. Troy Board is to be installed without edges damaged. Troy Board may be cut using a circular saw, hand saw, or reciprocating saw type. The Troy Board is manufactured with Portland cement; thereby dust will be created when using a circular saw.
- The Troy Board material is 7'-10 1/2" long and WILL NOT fall on lay out of the furring strips. Therefore, attach two (2) additional furring strips, no longer than 8" ea, to wall surface located at end of Troy Board. These furring channels will keep the Troy Board flat and even from end to end. Spacing of furring channels at end of Troy Boards are to be at least 16" apart from each other, with 4" under the Troy Board just installed, and the other 4" is for the attachment of the next Troy Board.
- Continue installation of Troy Board material as per plans and details. In same manner cut in around angled baffles. The piece should be of a triangle shape. This shape to be cut out of a Troy Board in one piece. The triangular shaped piece is to be attached to the furring strips with the smaller point located to the lowest baffle point and the larger portion of the triangular shape to finish flush and plum with the baffle or safety ceiling to its left.

**MUSHROOM HEAD INSTALL PROCEDURE**

Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required.



Blow the hole clean of dust and other material.



Hammer the anchor through the J or Z channels into the anchor hole until the head is firmly against the metal. Be sure the anchor is driven to the required embedment depth.



**FASTENERS**

- A #14 X 3 " SELF TAPPING HEX HEAD SCREW USED TO FASTEN BOARD TO Z-BAR
- B #14 X 2 " SELF TAPPING HEX HEAD SCREW USED TO FASTEN BOARD TO Z-BAR
- C 1/4" X 2" LAG SCREW USED FOR CEILING APPLICATIONS
- D 1/4" X 1 1/2" MUSHROOM HEAD SPIKE USED TO FASTEN Z-BAR, J CHANNEL & CLIPS TO CONCRETE STRUCTURE
- E FENDER WASHER USED FOR CEILING APPLICATIONS

**ABBREVIATIONS**

|       |                       |
|-------|-----------------------|
| AB    | ANCHOR BOLT           |
| AFF   | ABOVE FINISHED FLOOR  |
| BLKG  | BLOCKING              |
| CMU   | CONCRETE MASONRY UNIT |
| (E)   | EXISTING              |
| GA    | GAUGE                 |
| (N)   | NEW                   |
| NTS   | NOT TO SCALE          |
| OC    | ON CENTER             |
| SQ    | SQUARE                |
| STAGG | STAGGERED             |
| TB    | □□□□ □□□□□□           |
| TBD   | TO BE DETERMINED      |
| TW    | □□□□ □□□□□□           |
| TYP   | TYPICAL               |
| W/    | WITH                  |

**GENERAL NOTES**

ALL CONDUITS, JUNCTION BOXES, ELECTRICAL BOXES AND PANELS ARE TO BE SURFACED MOUNTED TO THE TROY SYSTEM. NO CUT OUTS FOR THESE TO BE PERFORMED. (U.O.N)

SCREWS USED TO FASTEN TROY BOARD ARE TO LIE FLUSH WITH THE PANEL.

PAINT INSTRUCTIONS: USE AN AIRLESS SPRAYER WITH ACRYLIC LATEX BASE PAINT (2 - 3 COATS MAX). DO NOT FILL IN VOIDS.

INSTALLATION OF PANELS SHOULD BEGIN WITH A 2'-0" X 7'-10 1/2" PANEL ON THE BOTTOM INSIDE CORNER OF WALL CONTINUING DOWN THE END OF RANGE.

2" THICK TROY BOARD USED FOR WALLS.

1" THICK TROY BOARD USED FOR BAFFLES AND CEILING UNLESS OTHERWISE NOTED.

Z-CHANNELS ON BAFFLES RUN LONGITUDINALLY (UP AND DOWN RANGE). TROY BOARD WILL RUN ACROSS (LEFT TO RIGHT).

**MATERIALS**

- TROY BOARD
- TROY WOOL
- CONCRETE/CMU

FINAL SCHEMATIC SET DATED 12/08/2020

CLEAR CREEK COUNTY SPORTS SHOOTING COMPLEX CLEAR CREEK COUNTY, COLORADO

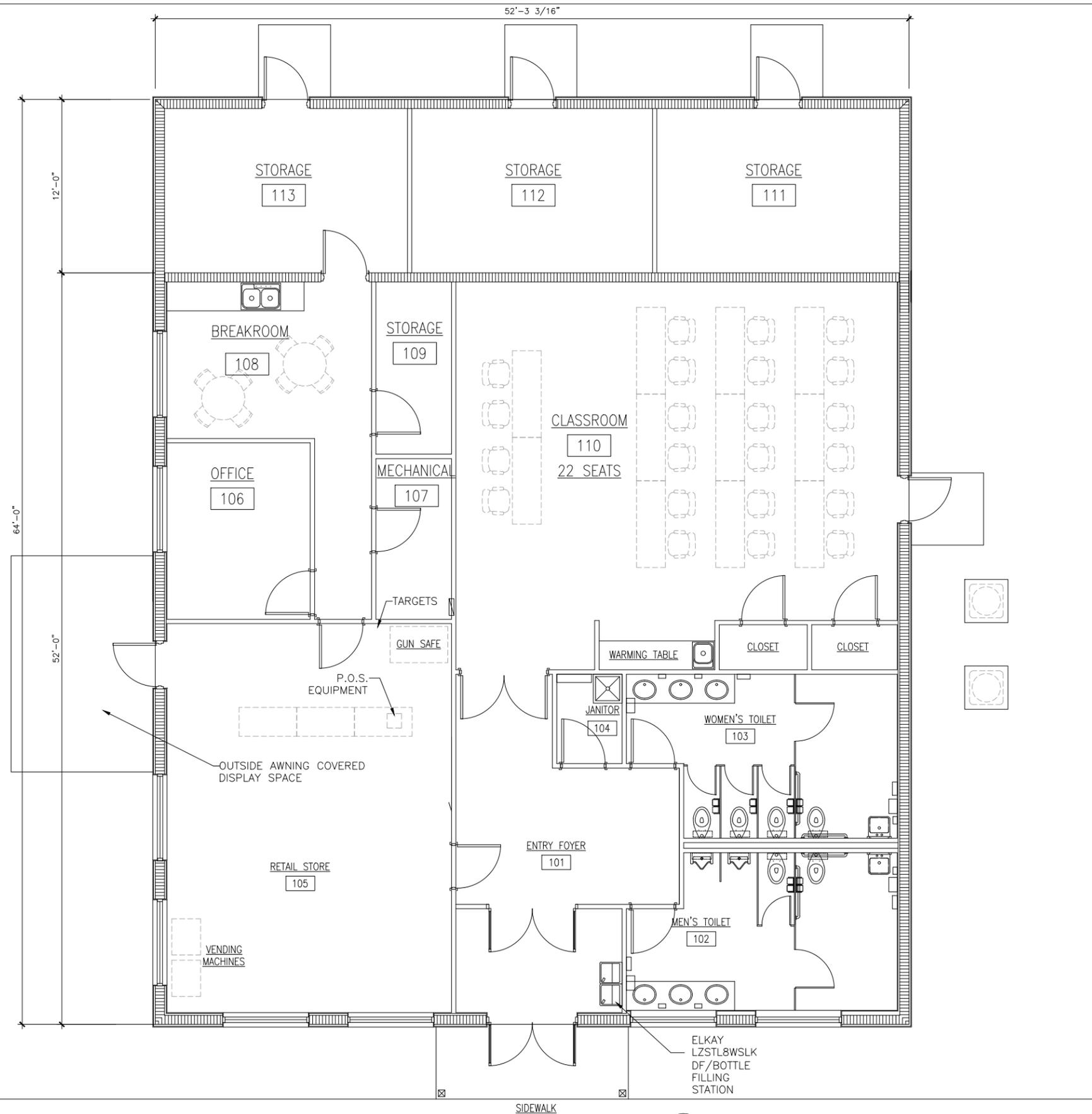
C. VARGAS & ASSOCIATES, LTD.  
1908 ARLINGTON EXPRESSEWAY  
BOISE ARIZONA 85714  
PHONE 908-722-2254 FAX 908-722-2297

DRAWN BY: DN CHECKED BY: CLARK VARGAS DATE: \_\_\_\_\_  
SUBMITTED BY: \_\_\_\_\_ REG. ENGR. NO. \_\_\_\_\_  
C.A.D.D. FILE PROJECT NO. 19011.01 SHEET 23 OF 25

FR-23

NOTE: If this drawing is printed 11"x17", this drawing is NOT TO SCALE or 1/2 SCALE

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CLUBHOUSE FLOOR PLAN  
SCALE: 1/4" = 1'-0"

CLUBHOUSE  
PROPOSED PROGRAM SPACE

| SPACE #      | SPACE NAME     | S.F.            |
|--------------|----------------|-----------------|
| 100          | ENTRY FOYER    | 276             |
| 102          | MEN'S TOILET   | 189             |
| 103          | WOMEN'S TOILET | 193             |
| 104          | JANITOR        | 28              |
| 105          | RETAIL STORE   | 531             |
| 106          | OFFICE         | 121             |
| 107          | MECHANICAL     | 58              |
| 108          | BREAKROOM      | 154             |
| 109          | STORAGE        | 62              |
| 110          | CLASSROOM      | 822             |
| 111          | STORAGE        | 191             |
| 112          | STORAGE        | 190             |
| 113          | STORAGE        | 191             |
| <b>TOTAL</b> |                | <b>3,290 SF</b> |

FINAL SCHEMATIC SET DATED 12/08/2020

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
|     |          |      |    |
|     |          |      |    |
|     |          |      |    |

CLUBHOUSE  
FLOOR PLAN

CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO

C. VARGAS & ASSOCIATES, LTD.  
1901 ARLINGTON EXPRESSWAY  
DENVER, COLORADO 80202  
PHONE 303.722.2254 FAX 303.722.2297

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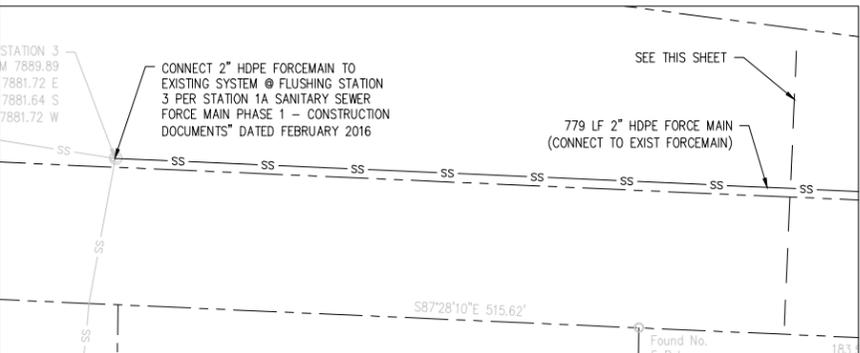
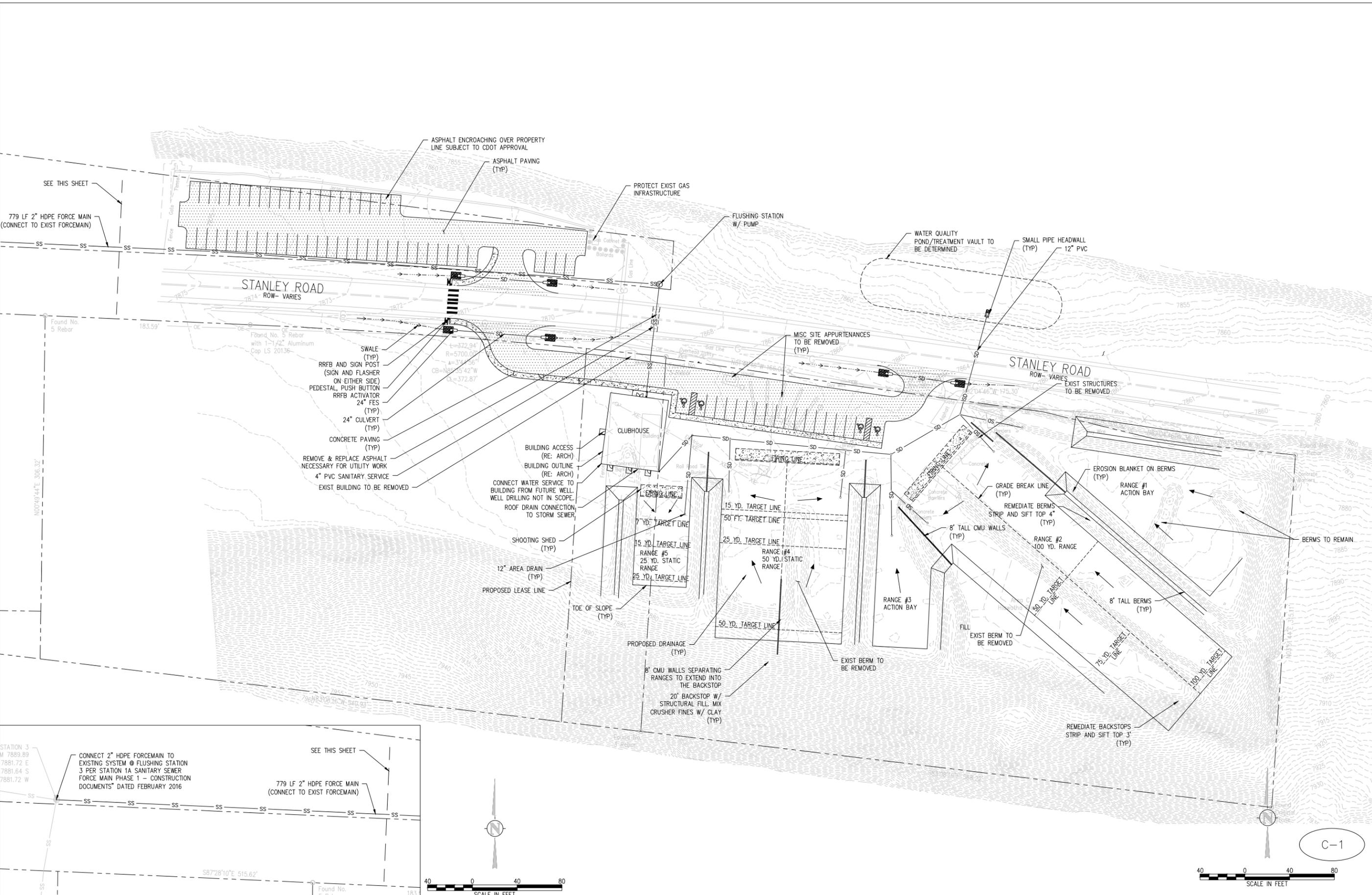
C.A.D.D. FILE  
PROJECT NO. 19011.01  
SHEET 24 OF 25

DO NOT SCALE DRAWINGS

APPROVED FOR CONSTRUCTION DATE: \_\_\_\_\_

A-1

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| NO. | REVISION                           | DATE     | BY  |
|-----|------------------------------------|----------|-----|
| 0   | 50% SD SUBMITTAL - CIVIL SITE PLAN | 10/09/20 | JVA |



CLEAR CREEK COUNTY  
SPORTS SHOOTING COMPLEX  
CLEAR CREEK COUNTY,  
COLORADO

C. VARGAS & ASSOCIATES, LTD.  
CONSULTING ENGINEERS  
8908 ARADON DRIVE  
ARADON, CO 80424  
PHONE 304.722.2254 FAX 304.722.2297

|                   |                |      |
|-------------------|----------------|------|
| DRAWN BY          | CHECKED BY     | DATE |
| SUBMITTED BY      | REG. ENGR. NO. | DATE |
| C.A.D.D. FILE     |                |      |
| PROJECT NO. 3199c |                |      |
| SHEET 25 OF 25    |                |      |

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APPROVED FOR CONSTRUCTION

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