CITY OF Grand Junction COLORADO

**Purchasing Division**

# ADDENDUM NO. 1

**DATE:** **December 10, 2019**
**FROM:** **City of Grand Junction Purchasing Division**
**TO:** **All Offerors**
**RE:** **Suplizio Stadium Structural Repairs IFB-4729-20-DH**

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Can Contractors have a second opportunity to view the project site?

   A. Yes, the project site shall be available for contractors to view a second time on Wednesday, December 11, 2019 from 10:00am – 2:00pm.

2. Q. Can you provide the Thunder Mountain testing results?

   A. Yes. See attached.

3. Q. What are the schedules for use of the stadium during construction timeframe?

   A. The GJ baseball schedule is still to be determined, however, the CMU schedule is attached.

4. See attached corrected project drawings.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

# THUNDER MOUNTAIN TESTING

**2970 N. Ronlin Avenue / Grand Junction, Colorado 81504**
**Office (970) 256-9965 / Cell (970) 210-7008 / Fax (970) 314-7067**
**E-Mail: kxkid39@aol.com / www.thundermountaintesting.com**

City of Grand Junction – Parks & Recreation
2529 High Country Court
Grand Junction, CO 81501

February 19, 2019

ATTN: Mr. Marc Mancuso

RE: Suplizio Field
North Avenue & 12th Street
Grand Junction, CO
*Ultrasonic Thickness Inspection – Bleacher Seats

As requested by you, ultrasonic thickness inspection was conducted on both the North and West bleacher seating for material thickness loss due to visible corrosion areas. I met with you on site to review project requirements and scope of work as detailed in our cost proposal to you dated January 14, 2019 listed as "REVISION 1".

Ultrasonic thickness inspection began on the North-East corner of the stadium seating and progressed in a western direction along the seating and concluding at the south seating areas. Inspection was conducted utilizing a Dakota Ultrasonics Model CMX Material and Coating Thickness Gauge – S/N 7030. The transducer used was a 5 MHz, ¼" Diameter dual element transducer. Calibration was conducted daily and verified to be within .001". The baseline average wall thickness for the bleacher seating listed below was observed to be approximately .189", unless otherwise noted. A total of approximately 25% of the visually evident corroded areas including the seating, stair threads and riser threads were inspected for remaining material thickness. Prior to testing, all inspection sites were power wire brushed from the back side to remove all foreign material to include rusted material and paint. Between 2 – 3 tests per site were taken to get an overall average of remaining material thickness. Material thickness was marked directly adjacent to each inspection site with blue permanent markings. Both single point and/or multiple point readings are listed below. Thickness readings documented are in 1/1000 of an inch increment. The following thickness readings were observed at the following Sections and Row Numbers. All number marked in red indicate equal or greater than 25% Original Material Loss:

| SECTION | ROW | LOCATION | TEST THICKNESS(S) |
|---|---|---|---|
| U – V | K | Above Support Beam | .142 |
| U – V | M | Bleacher Mid-Span: East | .158 |
| U – V | M | Bleacher Mid-Span: West | .153 |
| U – V | B | Bleacher Mid-Span: East | .142 |

| SECTION | ROW | LOCATION | TEST THICKNESS(S) |
|---|---|---|---|
| U – V | B | Bleacher Mid-Span: West | .165 |
| U – V | B | Above Support Beam | .142 |
| S – T | K | Above Support Beam | .174 |
| S – T | O | Above Support Beam | .165 |
| S – T | B | Bleacher Mid-Span: East | .111 |
| S – T | B | Bleacher Mid-Span: West | .126 |
| S – T | C | Bleacher Mid-Span: East | .126 |
| S – T | F | Bleacher Mid-Span: East | .126 - .153 |
| S – T | C | Bleacher Mid-Span: West | .059 - .096 |
| S – T | D | Bleacher Mid-Span: East | .126 |
| S – T | D | Bleacher Mid-Span: West | .126 - .158 |
| S – T | G | Bleacher Mid-Span: West | .096 - .136 |
| S – T | Stair Handrail | West Corner: 4th Picket Up | Broken |
| S – T | Between A – B | Stair Landing @ S: Vertical Plt. | Thru Holes |
| R – S | H | Stair Landing @ Vertical Plt. | Thru Holes |
| R – S | C | Bleacher Mid-Span: East | .117 - .127 |
| R – S | D | Bleacher Mid-Span: East | .117 - .127 |
| R – S | S | Bleacher Mid-Span: East | .155 |
| R – S | F | Bleacher Mid-Span: East | .127 - .157 |
| R – S | A | Stair Landing @ A: Vertical Plt. | Thru Holes |
| Q – R | A, C, D, G, N | Thru Holes in Horizontal and/or Vert. Plate | |
| Q – R | A | Bleacher Mid-Span: East | .079 - .114 |
| Q – R | C | Bleacher Mid-Span: East | .077 - .154 |
| Q – R | D | Bleacher Mid-Span: East | .077 - .154 |
| Q – R | F | Bleacher Mid-Span: East | .077 - .122 |
| P – Q | S | Bleacher Mid-Span: West | .127 - .154 |
| P – Q | D | Bleacher Mid-Span: East | .096 - .122 |
| P – Q | F | Bleacher Mid-Span: East | .109 - .158 |
| P – Q | Below Handrail | Stair Down @ Vertical Plt. | Thru Holes |
| P – Q | Below Handrail | Concrete Level @ Vertical Plt. | Thru Holes |
| P – Q | Landing to A | 2 Step Stair @ Vertical Plt. | Thru Holes |
| P – Q | G, H | Stair Landing @ Vertical Plt. | Thru Holes |
| P – Q | A | Bleacher Mid-Span: West | .082 - .142 |
| P – Q | B | Bleacher Mid-Span: West | .127 |
| P – Q | D | Bleacher Mid-Span: West | .142 |

Respectfully Submitted,

Scott L. Maxwell
AWS CWI #91040201
ASNT NDT Level III #30242
Thunder Mountain Testing

AWS Scott L Maxwell
CWI 91040201
QC1 EXP. 4/1/2021

# THUNDER MOUNTAIN TESTING

**2970 N. Ronlin Avenue / Grand Junction, Colorado 81504**
**Office (970) 256-9965 / Cell (970) 210-7008 / Fax (970) 314-7067**
**E-Mail: kxkid39@aol.com / www.thundermountaintesting.com**

City of Grand Junction – Parks & Recreation
2529 High Country Court
Grand Junction, CO 81501

February 20, 2019

ATTN: Mr. Marc Mancuso

RE: Suplizio Field
North Avenue & 12th Street
Grand Junction, CO
*Ultrasonic Thickness Inspection – Bleacher Seats

As requested by you, ultrasonic thickness inspection was conducted on both the North and West bleacher seating for material thickness loss due to visible corrosion areas. I met with you on site to review project requirements and scope of work as detailed in our cost proposal to you dated January 14, 2019 listed as "REVISION 1".

Ultrasonic thickness inspection began on the North-East corner of the stadium seating and progressed in a western direction along the seating and concluding at the south seating areas. Inspection was conducted utilizing a Dakota Ultrasonics Model CMX Material and Coating Thickness Gauge – S/N 7030. The transducer used was a 5 MHz, ¼" Diameter dual element transducer. Calibration was conducted daily and verified to be within .001". The baseline average wall thickness for the bleacher seating listed below was observed to be approximately .189", unless otherwise noted. A total of approximately 25% of the visually evident corroded areas including the seating, stair threads and riser threads were inspected for remaining material thickness. Prior to testing, all inspection sites were power wire brushed from the back side to remove all foreign material to include rusted material and paint. Between 2 – 3 tests per site were taken to get an overall average of remaining material thickness. Material thickness was marked directly adjacent to each inspection site with blue permanent markings. Both single point and/or multiple point readings are listed below. Thickness readings documented are in 1/1000 of an inch increment. The following thickness readings were observed at the following Sections and Row Numbers. All number marked in red indicate equal or greater than 25% Original Material Loss:

| SECTION | ROW | LOCATION | TEST THICKNESS(S) |
|---|---|---|---|
| O – P | B | Bleacher Mid-Span: East | .112 |
| O – P | D | Bleacher Mid-Span: East | .127 |
| O – P | F | Bleacher Mid-Span: East | .142 |
| O – P | B | Bleacher Mid-Span: West | .111 - .126 |

| SECTION | ROW | LOCATION | TEST THICKNESS(S) |
|---|---|---|---|
| O – P | C | Bleacher Mid-Span: West | .064 - .097 |
| O – P | C | Bleacher Mid-Span: East | .077 - .126 |
| O – P | E | Bleacher Mid-Span: West | .142 |
| O – P | G | Bleacher Mid-Span: East | .064 - .095 |
| O – P | G, J, L | Stair Landing: Holes in Horiz. & Vert. Plt. | |
| N – O | S | Bleacher Mid-Span: East | .127 - .154 |
| N – O | B | Bleacher Mid-Span: East | .112 - .127 |
| N – O | E | Bleacher Mid-Span: East | .127 |
| N – O | G, H | Stair Landing: Holes in Vertical Plt. | |
| N – O | C | Bleacher Mid-Span: East | .095 |
| N – O | D | Bleacher Mid-Span: East | .095 |
| M – N | N | Bleacher Mid-Span: West | .127 |
| L – M | C | Bleacher Mid-Span: East | .059 - .079 |
| L – M | C | Bleacher Mid-Span: West | .079 |
| L – M | E | Bleacher Mid-Span: West | .111 |
| K – L | E | Bleacher Mid-Span: East | .059 |
| K – L | B | Above Support Beam | .155 |
| K – L | O | Bleacher Mid-Span: Center | .067 - .096 |
| K – L | H | Stair Landing @ L: Vertical Plt. Thru Hole | |
| J – K | R | Bleacher Mid-Span: Center | .104 - .111 |
| J – K | D | Bleacher Mid-Span: East | .111 |
| J – K | N, W | Thru Holes in Vertical Plt. | |
| J – K | A | Thru Holes in Vertical Plt. | |

**Baseline Average Wall Thickness Change to .215**

| | | | |
|---|---|---|---|
| D | K | Bleacher Mid-Span: North | .015 |
| D | B | Bleacher Mid-Span: North | .120 - .145 |
| B – C | A | Bleacher Mid-Span: North | .095 - .115 |
| B – C | C | Bleacher Mid-Span: North | .110 - .137 |
| B – C | B | Stair Landing @ Vertical Plt. | |
| A – B | B | Bleacher Mid-Span: North | .137 |
| A – B | A | Bleacher Mid-Span: South | .115 |

Respectfully Submitted,

Scott L. Maxwell
AWS CWI #91040201
ASNT NDT Level III #30242
Thunder Mountain Testing

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QC1 EXP. 4/1/2021

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City of Grand Junction – Parks & Recreation
2529 High Country Court
Grand Junction, CO 81501

March 20, 2019

ATTN: Mr. Marc Mancuso

RE: Stocker Stadium
North Avenue & 12th Street
Grand Junction, CO
*Ultrasonic Thickness Inspection – Bleacher Seats

As requested by you, ultrasonic thickness inspection was conducted the West bleacher seating for material thickness loss due to visible corrosion areas. I met with you on site to review project requirements and scope of work as detailed in our cost proposal to you dated January 14, 2019 listed as "REVISION 1".

Ultrasonic thickness inspection began on the North corner of the stadium seating and progressed in a southern direction along the seating. Inspection was conducted utilizing a Dakota Ultrasonics Model CMX Material and Coating Thickness Gauge – S/N 7030. The transducer used was a 5 MHz, ¼" Diameter dual element transducer. Calibration was conducted daily and verified to be within .001". The baseline average wall thickness for the bleacher seating listed below was observed to be approximately .182", unless otherwise noted. A total of approximately 25% of the visually evident corroded areas including the seating, stair threads and riser threads were inspected for remaining material thickness. Prior to testing, all inspection sites were power wire brushed from the back side to remove all foreign material to include rusted material and paint. Since the section number was all the same (Section S), below I listed the areas as "Bays", starting from the North and progressing South, including the Stairs. Bays are distinguished by the back-side East-West support seating main framing beams. Between 2 – 3 tests per site were taken to get an overall average of remaining material thickness. Material thickness was marked directly adjacent to each inspection site with blue permanent markings. Both single point and/or multiple point readings are listed below. Thickness readings documented are in 1/1000 of an inch increment. The following thickness readings were observed at the following Sections and Row Numbers. All number marked in red indicate equal or greater than 25% Original Material Loss:

| BAY | ROW | LOCATION | TEST THICKNESS(S) |
|---|---|---|---|
| 1 | B | North End | .136 |
| 1 | I | North End | .120 - .136 |

| BAY | ROW | LOCATION | TEST THICKNESS(S) |
|---|---|---|---|
| 1 | J | North End | .088 - .120 |
| 2 | J | Mid-Span | .105 - .132 |
| 3 | K | Mid-Span | .120 - .135 |
| | **Baseline Average Wall Thickness Change to .195"** | | |
| 3 | E | South End | .152 |
| 5 | C | Mid-Span | .132 |
| 6 | E | South End | .010 - .118 |
| 6 | F | South End | .085 - .118 |
| 7 | D | South End | .100 |
| 10 | K | North End | .039 - .150 |
| 10 | K | Mid-Span | .102 - .147 |
| 11 | K | North End | .150 |
| 11 | K | Mid-Span | .145 |
| 11 | K | South End | .102 |
| 12 | K | South End | .105 - .160 |
| 13 | F | Mid-Span | .125 - .148 |
| 15 | E | North End | .102 |
| 17 | C | North End | .133 |
| 17 | L | North End | .161 |
| 17 | L | Mid-Span | .102 - .133 |
| 17 | L | South End | Thru Holes |
| 19 | M | North End | .148 |
| 19 | M | Mid-Span | .137 - .140 |
| 19 | M | South End | .148 |
| 19 | J | North End | .103 - .137 |
| 20 | M | North End | .070 |
| 20 | M | Mid-Span | .085 |
| 20 | J | North End | .137 |
| 20 | J | Mid-Span | .137 |
| 20 | J | South End | .152 |
| *Stair 1 from North | S | Horizontal & Vertical Thread – Holes in Both | |
| *Stair 1 from North | V | Horizontal & Vertical Thread – Holes in Both | |
| *Stair 3 from North | J | North Side Floor Plate | .038 |
| *Stair 3 from North | L | North Side Floor Plate | .095 - .104 |
| *Stair 3 from North | K | South Side Floor Plate | .075 |
| *Stair 3 from North | J | South Side Floor Plate | .102 |
| *Stair 4 from North | K | South Side Floor Plate | .148 |

Respectfully Submitted,

Scott L. Maxwell
AWS CWI #91040201
ASNT NDT Level III #30242
Thunder Mountain Testing

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CWI 91040201
QC1 EXP. 4/1/2021

## Colorado Mesa University Athletics

### 2020 Baseball Schedule

| | | |
|---|---|---|
| Feb 7 (Fri) 4pm | at Nova Southeastern University | Fort Lauderdale, FL NSU Baseball Complex |
| Feb 8 (Sat) 11am | at Nova Southeastern University | Fort Lauderdale, FL NSU Baseball Complex |
| Feb 9 (Sun) 10am | at Nova Southeastern University | Fort Lauderdale, FL NSU Baseball Complex |
| Feb 14 (Fri) 2:30pm | vs Southern New Hampshire University | Grand Junction, CO Suplizio Field |
| Feb 15 (Sat) 1pm | vs Southern New Hampshire University | Grand Junction, CO Suplizio Field |
| Feb 16 (Sun) Noon | vs Southern New Hampshire University | Grand Junction, CO Suplizio Field |
| Feb 20 (Thu) 2:30pm | vs Northwest Nazarene University | Grand Junction, CO Suplizio Field |
| Feb 21 (Fri) Noon | vs Northwest Nazarene University (DH) | Grand Junction, CO Suplizio Field |
| Feb 21 (Fri) 3:30pm | vs Northwest Nazarene University (DH) | Grand Junction, CO Suplizio Field |
| Feb 22 (Sat) 1pm | vs Northwest Nazarene University | Grand Junction, CO Suplizio Field |
| Feb 28 (Fri) 2:30pm | vs Minot State University | Grand Junction, CO Suplizio Field |
| Feb 29 (Sat) Noon | vs Minot State University (DH) | Grand Junction, CO Suplizio Field |
| Feb 29 (Sat) 3:30pm | vs Minot State University (DH) | Grand Junction, CO Suplizio Field |
| Mar 1 (Sun) Noon | vs Minot State University | Grand Junction, CO Suplizio Field |
| Mar 6 (Fri) 3pm | vs Regis University | Grand Junction, CO Suplizio Field |
| Mar 7 (Sat) 1pm | vs Regis University (DH) | Grand Junction, CO Suplizio Field |
| Mar 7 (Sat) 3:30pm | vs Regis University (DH) | Grand Junction, CO Suplizio Field |
| Mar 8 (Sun) Noon | vs Regis University | Grand Junction, CO Suplizio Field |
| Mar 13 (Fri) 3pm | at Colorado School of Mines | Golden, CO Darden Baseball Field |
| Mar 14 (Sat) 1pm | at Colorado School of Mines (DH) | Golden, CO Darden Baseball Field |
| Mar 14 (Sat) 3:30pm | at Colorado School of Mines (DH) | Golden, CO Darden Baseball Field |
| Mar 15 (Sun) Noon | at Colorado School of Mines | Golden, CO Darden Baseball Field |
| Mar 20 (Fri) 6:05pm | vs UCCS | Grand Junction, CO Suplizio Field |
| Mar 21 (Sat) 1pm | vs UCCS (DH) | Grand Junction, CO Suplizio Field |
| Mar 21 (Sat) 3:30pm | vs UCCS (DH) | Grand Junction, CO Suplizio Field |
| Mar 22 (Sun) Noon | vs | Grand Junction, CO Suplizio Field |

| | | |
|---|---|---|
| | UCCS | |
| Mar 27 (Fri) 3pm | at Colorado Christian University | Lakewood, CO All Star Park |
| Mar 28 (Sat) Noon | at Colorado Christian University (DH) | Lakewood, CO All Star Park |
| Mar 28 (Sat) 2:30pm | at Colorado Christian University (DH) | Lakewood, CO All Star Park |
| Mar 29 (Sun) Noon | at Colorado Christian University | Lakewood, CO All Star Park |
| Apr 3 (Fri) 6:05pm | vs CSU - Pueblo | Grand Junction, CO Suplizio Field |
| Apr 4 (Sat) 1pm | vs CSU - Pueblo (DH) | Grand Junction, CO Suplizio Field |
| Apr 4 (Sat) 3:30pm | vs CSU - Pueblo (DH) | Grand Junction, CO Suplizio Field |
| Apr 5 (Sun) Noon | vs CSU - Pueblo | Grand Junction, CO Suplizio Field |
| Apr 9 (Thu) 3pm | at Adams State University | Alamosa, CO ASU Baseball Field |
| Apr 10 (Fri) 1pm | at Adams State University (DH) | Alamosa, CO ASU Baseball Field |
| Apr 10 (Fri) 3:30pm | at Adams State University (DH) | Alamosa, CO ASU Baseball Field |
| Apr 11 (Sat) Noon | at Adams State University | Alamosa, CO ASU Baseball Field |
| Apr 17 (Fri) 3pm | at New Mexico Highlands University | Las Vegas, NM Brandt Field |
| Apr 18 (Sat) 1pm | at New Mexico Highlands University (DH) | Las Vegas, NM Brandt Field |
| Apr 18 (Sat) 3:30pm | at New Mexico Highlands University (DH) | Las Vegas, NM Brandt Field |
| Apr 19 (Sun) Noon | at New Mexico Highlands University | Las Vegas, NM Brandt Field |
| Apr 24 (Fri) 6:05pm | vs MSU Denver | Grand Junction, CO Suplizio Field |
| Apr 25 (Sat) 1pm | vs MSU Denver (DH) | Grand Junction, CO Suplizio Field |
| Apr 25 (Sat) 3:30pm | vs MSU Denver (DH) | Grand Junction, CO Suplizio Field |
| Apr 26 (Sun) Noon | vs MSU Denver | Grand Junction, CO Suplizio Field |
| Apr 30 (Thu) 6pm | at Dixie State University | St. George, UT Bruce Hurst Field |
| May 1 (Fri) 3:30pm | at Dixie State University (DH) | St. George, UT Bruce Hurst Field |
| May 1 (Fri) 6pm | at Dixie State University (DH) | St. George, UT Bruce Hurst Field |
| May 2 (Sat) Noon | at Dixie State University | St. George, UT Bruce Hurst Field |

RMAC Baseball Tournament

| | | |
|---|---|---|
| · May 6 (Wed) | vs RMAC Tournament | TBD |

NCAA Regionals

| | |
|---|---|
| · May 14 (Thu) | vs NCAA Regional Tournament |

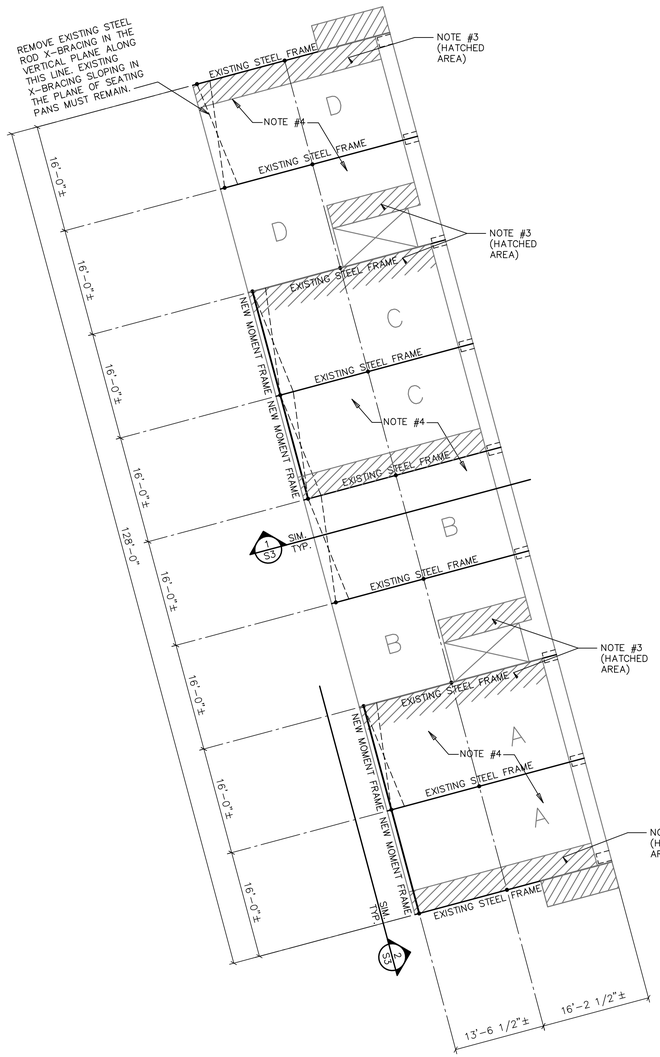
NCAA Super Regionals

| | | | |
|---|---|---|---|
| · May 22 (Fri) | vs<br>NCAA Super Regionals | | |

NCAA Championships

| | | |
|---|---|---|
| · May 30 (Sat) | NCAA Championships | Cary, N.C. USA Baseball Training Complex |

All game times are listed in Mountain
Dates and times are subject to change without notice




## EXISTING SOUTH (RIGHT FIELD) SEATING PLAN 3/32"=1'-0" NORTH

1. DIMENSIONS AND ORIENTATION OF SEATING STRUCTURE ARE APPROXIMATE. VERIFY DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO FABRICATION AND CONSTRUCTION.
2. EXISTING SEATING PANS CONSIST OF BENT 3/16" PLATE STEEL, PAINTED, SPANNING BETWEEN SLOPED STEEL FRAMES. STAIRS CONSIST OF STEEL DIAMOND PLATE TREADS, RISERS, AND SIDE CLOSURES INSTALLED ON TOP OF THE SEATING PANS.
3. REPLACE STAIR TREAD AND RISER PLATES WITH NEW MATERIAL, WHERE CORROSION OF THE EXISTING STEEL RISERS AND TREADS HAS REDUCED THE PLATE THICKNESS TO LESS THAN 1/8" (ALTERNATIVE #1).
4. REPLACE SEATING PANS EXHIBITING CORROSION WHERE THE PLATE THICKNESS HAS BEEN REDUCED TO LESS THAN 1/8" THICKNESS. LOCATIONS OF REDUCED THICKNESS HAVE BEEN SURVEYED BY THUNDER MOUNTAIN TESTING, AND ARE LISTED IN REPORTS DATED FEBRUARY 19 AND FEBRUARY 20, 2019. THESE REPORTS SHOULD BE USED TO IDENTIFY SEATING PANS THAT NEED TO BE REPLACED (ALTERNATIVE #2 – SECTIONS P–S).
5. NEW STEEL MATERIAL SHALL BE PRIMED WITH A ZINC RICH OR OTHERWISE RUST INHIBITIVE PRIMER SUCH AS TNEMEC SERIES V10, AND PAINTED WITH A CORROSION PROTECTING COATING SUCH AS TNEMEC SERIES 30.

### GENERAL NOTES

1. CODES USED FOR DESIGN: 2018 INTERNATIONAL BUILDING CODE, ASCE/SEI 7–16
2. LIVE LOADS USED IN DESIGN:
   - A. STADIUM SEATING AND STAIRS——100 PSF
   - B. WIND:
     - EXPOSURE——C
     - RISK CATEGORY——III
     - $V_{ULT}$——115 MPH
     - $V_{ASD}$——89 MPH
     - INTERNAL PRESSURE COEFFICIENT $GC_{pi}$ (OPEN BUILDING)—— 0
   - C. SEISMIC:

     SEISMIC DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH N.E.H.R.P. PROVISIONS AND THE REQUIREMENTS OF ASCE/SEI 7–16.
     - RISK CATEGORY——III
     - IMPORTANCE FACTOR $I_e$——1.25
     - R COEFFICIENT——3.0
     - SPECTRAL RESPONSE COEFFICIENTS:
       - $S_s$——0.239
       - $S_1$——0.066
       - $S_{DS}$——0.255
       - $S_{D1}$——0.106

     SEISMIC RESPONSE COEFFICIENTS
     - Cs ——0.106
     - SITE CLASS——D
     - SEISMIC DESIGN CATEGORY——B
     - BASIC SEISMIC:
       - FORCE RESISTING SYSTEM——ORDINARY STEEL MOMENT FRAMES
       - DESIGN BASE SHEAR V ——25K
       - ANALYSIS PROCEDURE——EQUIVALENT LATERAL FORCE PROCEDURE
3. CONCRETE (IF APPLICABLE):
   - A. ALL CONCRETE SHALL DEVELOP 4,000 P.S.I. COMPRESSIVE STRENGTH IN 28 DAYS. USE TYPE I/11 CEMENT WITH MAXIMUM WATER/CEMENT RATIO = 0.45, AND 3/4" MAX. COARSE AGGREGATE.
   - B. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT COLUMN TIES AND DOWELS TO SLABS ON GRADE MAY BE GRADE 40.
   - C. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 36 BAR DIAMETERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
   - D. STAGGER SPLICES A MINIMUM OF 4'–0 FOR TOP AND BOTTOM CONTINUOUS BARS IN FOUNDATION, UNLESS OTHERWISE SHOWN OR NOTED.
   - E. DETAIL BARS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITIONS.
   - F. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE DRAWINGS. DO NOT ATTEMPT TO LOCATE REINFORCING DURING CONCRETE PLACEMENT.
   - G. REINFORCEMENT PROTECTION SHALL BE AS FOLLOWS:
     - (1) CONCRETE POURED AGAINST EARTH——3"
     - (2) FORMED CONCRETE EXPOSED TO EARTH OR WEATHER——2"
     - (3) FORMED STAIRS OR WALLS NOT EXPOSED TO WEATHER——3/4"
   - H. PLACE 2–#5 (ONE EACH FACE) WITH 2'–0 PROJECTION AROUND ALL OPENINGS IN CONCRETE UNLESS OTHERWISE SHOWN OR NOTED.
   - I. SLABS, BEAMS, AND GRADE BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT MIDDLE OF SPAN WITH KEYS AS INDICATED IN THE TYPICAL CONCRETE WALL CONSTRUCTION JOINT DETAIL. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE STRUCTURAL ENGINEER.
   - J. WIRE FABRIC REINFORCEMENT MUST LAP ON FULL MESH +2" AT SIDE AND END LAPS, AND SHALL BE TIED TOGETHER.
3. STEEL:
   - A. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 ($F_y$ = 50 ksi). ALL RECTANGULAR AND SQUARE HSS SHAPES SHALL CONFORM TO ASTM A500 GRADE B ($F_y$ = 46 ksi). ALL PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B ALL STEEL PLATES, CHANNELS, AND ANGLES SHALL CONFORM TO ASTM A36, LATEST EDITIONS.
   - B. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.
   - C. USE FRAMED BEAM CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS, OR WELDED EQUIVALENT, UNLESS OTHERWISE SHOWN OR NOTED. FOR BEAMS WITHOUT DESIGNATED LOADS ON DRAWING, SELECT CONNECTIONS TO SUPPORT 50% OF TOTAL UNIFORM LOAD CAPACITY IN BENDING FOR EACH GIVEN BEAM AND SPAN, PLUS THE REACTION DUE TO ANY CONCENTRATED LOADS, MINIMUM OF (2) BOLTS PER CONNECTION.
   - D. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE A.W.S. STANDARD QUALIFICATION TESTS.

Lindauer•Dunn, Inc.
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# SUPLIZIO STADIUM

BASEBALL SEATING REMEDIATION

GRAND JUNCTION, COLORADO

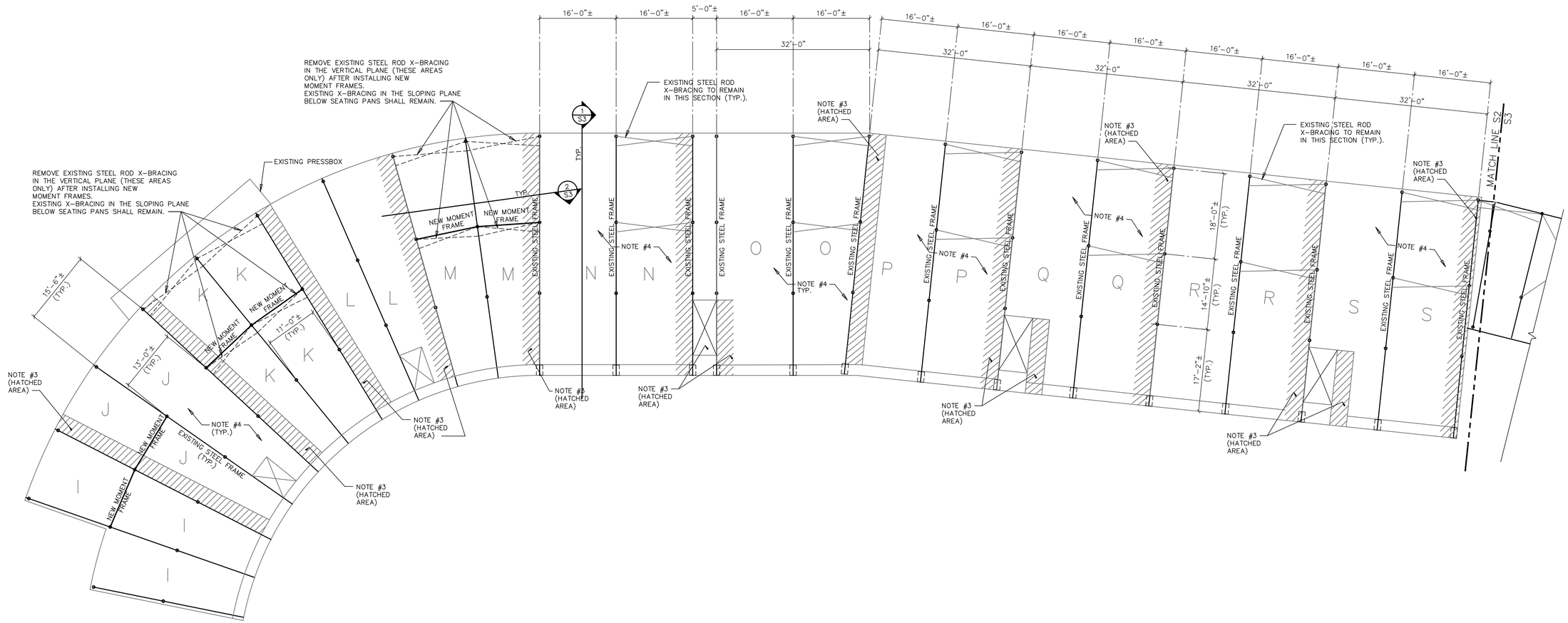
FOR: CITY OF GRAND JUNCTION PARKS DEPARTMENT

REVISIONS:

| | |
|---|---|
| JOB # | 19.033 |
| DRAWN BY: | KDN |
| CHECKED BY: | JAD |
| DATE: | 11/21/19 |

SHEET #

S1




## EXISTING NORTH SEATING PLAN

3/32"=1'-0"

NORTH

1. DIMENSIONS AND ORIENTATION OF SEATING STRUCTURE ARE APPROXIMATE. VERIFY DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO FABRICATION AND CONSTRUCTION.
2. EXISTING SEATING PANS CONSIST OF BENT 3/16" PLATE STEEL, PAINTED, SPANNING BETWEEN SLOPED STEEL FRAMES. STAIRS CONSIST OF STEEL DIAMOND PLATE TREADS, RISERS, AND SIDE CLOSURES INSTALLED ON TOP OF THE SEATING PANS.
3. REPLACE STAIR TREAD AND RISER PLATES WITH NEW MATERIAL, WHERE CORROSION OF THE EXISTING STEEL RISERS AND TREADS HAS REDUCED THE PLATE THICKNESS TO LESS THAN 1/8" (ALTERNATIVE #1).
4. REPLACE SEATING PANS EXHIBITING CORROSION WHERE THE PLATE THICKNESS HAS BEEN REDUCED TO LESS THAN 1/8" THICKNESS. LOCATIONS OF REDUCED THICKNESS HAVE BEEN SURVEYED BY THUNDER MOUNTAIN TESTING, AND ARE LISTED IN REPORTS DATED FEBRUARY 19 AND FEBRUARY 20, 2019. THESE REPORTS SHOULD BE USED TO IDENTIFY SEATING PANS THAT NEED TO BE REPLACED (ALTERNATIVE #2 – SECTIONS P–S).
5. NEW STEEL MATERIAL SHALL BE PRIMED WITH A ZINC RICH OR OTHERWISE RUST INHIBITIVE PRIMER SUCH AS TNEMEC SERIES V10, AND PAINTED WITH A CORROSION PROTECTING COATING SUCH AS TNEMEC SERIES 30.

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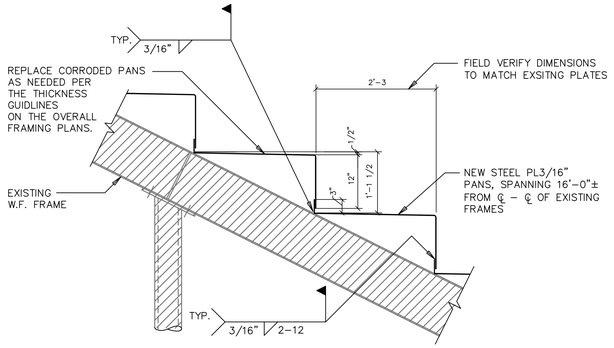
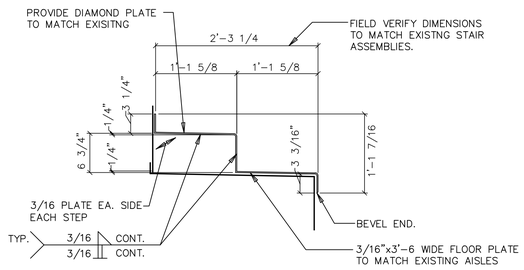
SHEET #

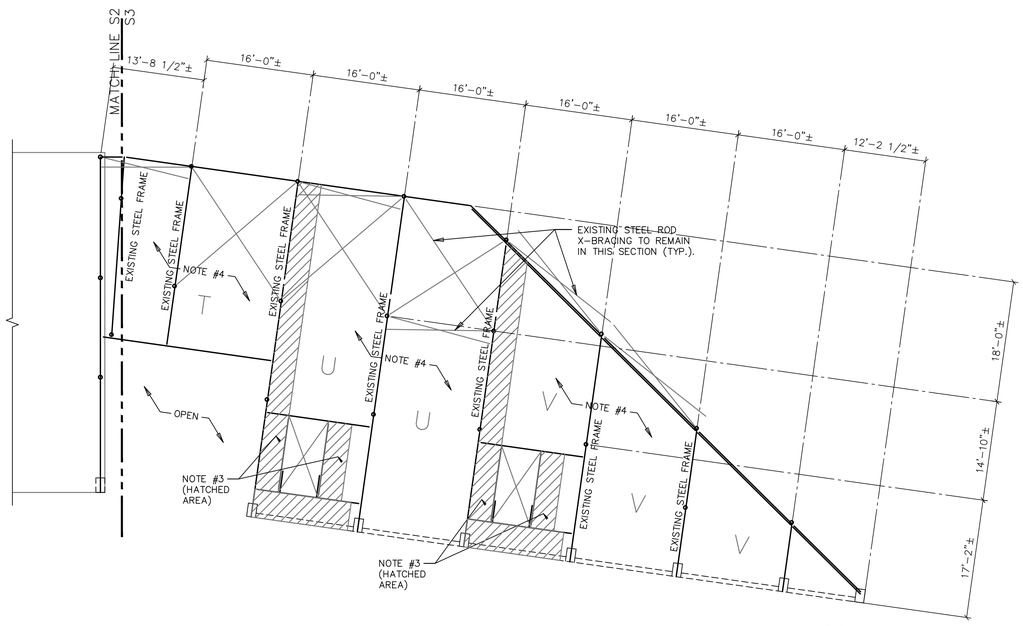
S2




DETAIL (A / S3) 3/4"=1'-0"



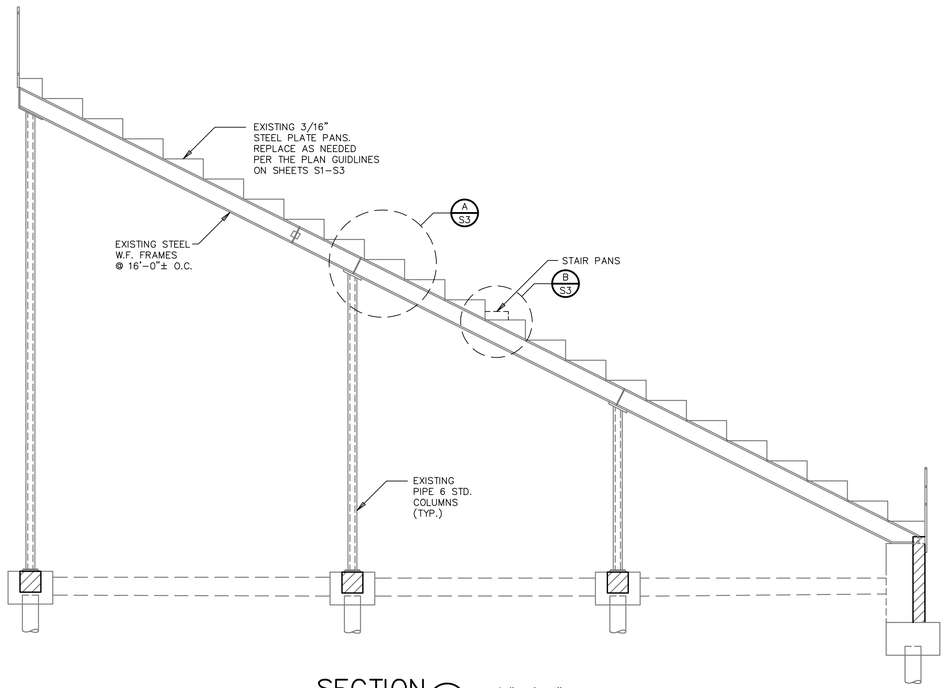

DETAIL (B / S3) 1"=1'-0"



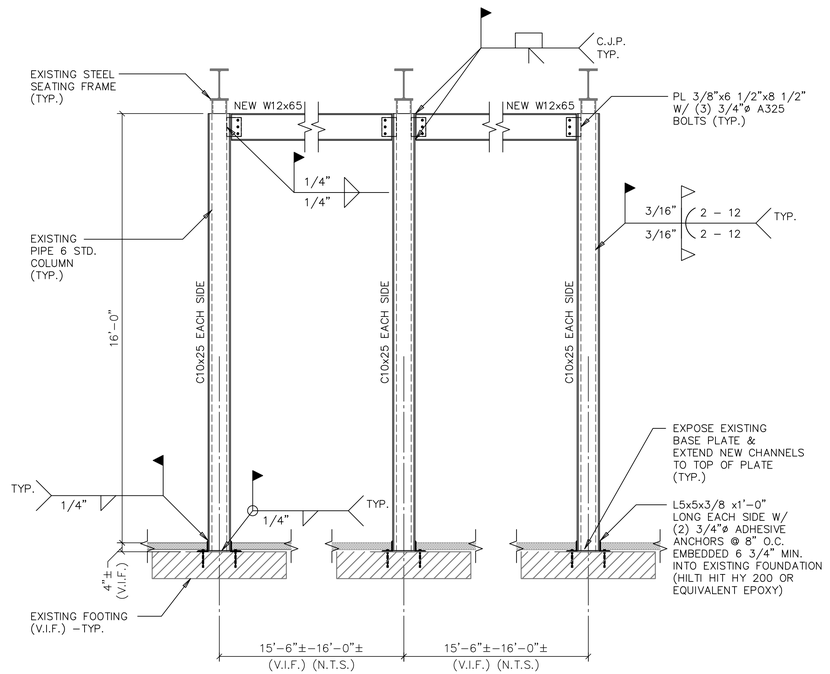

## EXISTING NORTHEAST SEATING PLAN

3/32"=1'-0" NORTH

1. DIMENSIONS AND ORIENTATION OF SEATING STRUCTURE ARE APPROXIMATE. VERIFY DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO FABRICATION AND CONSTRUCTION.
2. EXISTING SEATING PANS CONSIST OF BENT 3/16" PLATE STEEL, PAINTED, SPANNING BETWEEN SLOPED STEEL FRAMES. STAIRS CONSIST OF STEEL DIAMOND PLATE TREADS, RISERS, AND SIDE CLOSURES INSTALLED ON TOP OF THE SEATING PANS.
3. REPLACE STAIR TREAD AND RISER PLATES WITH NEW MATERIAL, WHERE CORROSION OF THE EXISTING STEEL RISERS AND TREADS HAS REDUCED THE PLATE THICKNESS TO LESS THAN 1/8" (ALTERNATIVE #1).
4. REPLACE SEATING PANS EXHIBITING CORROSION WHERE THE PLATE THICKNESS HAS BEEN REDUCED TO LESS THAN 1/8" THICKNESS. LOCATIONS OF REDUCED THICKNESS HAVE BEEN SURVEYED BY THUNDER MOUNTAIN TESTING, AND ARE LISTED IN REPORTS DATED FEBRUARY 19 AND FEBRUARY 20, 2019. THESE REPORTS SHOULD BE USED TO IDENTIFY SEATING PANS THAT NEED TO BE REPLACED (ALTERNATIVE #2 - SECTIONS P-S).
5. NEW STEEL MATERIAL SHALL BE PRIMED WITH A ZINC RICH OR OTHERWISE RUST INHIBITIVE PRIMER SUCH AS TNEMEC SERIES V10, AND PAINTED WITH A CORROSION PROTECTING COATING SUCH AS TNEMEC SERIES 30.




SECTION (1 / S3) 1/4"=1'-0"




SECTION (2 / S3) 3/8"=1'-0"

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SHEET # S3