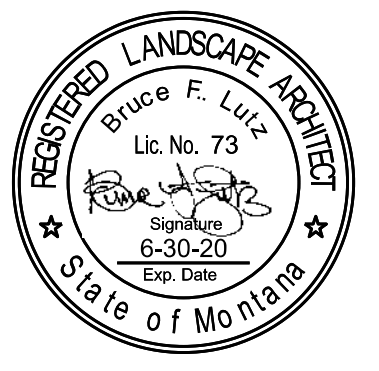


# AINSWORTH COMMUNITY PARK PROJECT THOMPSON FALLS, MONTANA



**COORDINATES:**

BASIS OF BEARINGS: GRID NORTH OF MONTANA STATE PLANE COORDINATE SYSTEM - NAD83(2011)(EPOCH 2010.0000)

HORIZONTAL DATUM AND COORDINATES: NAD83(2011)(EPOCH 2010.0000), MONTANA STATE PLANE COORDINATES AT GROUND

VERTICAL DATUM: NAVD88 FROM OPUS SOLUTION USING GEOID 12B

SITE BENCHMARK AVAILBLE UPON REQUEST FROM WGM GROUP.



**SUMMARY SITE MASTER PLAN**  
NO SCALE

IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST EDITION OF STANDARDS FOR DESIGN AND CONSTRUCTION FOR THE CITY OF THOMPSON FALLS, MONTANA AND THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS. THE CONSTRUCTION PLANS ARE INTENDED TO WORK IN CONJUNCTION WITH THE ABOVE STANDARDS.



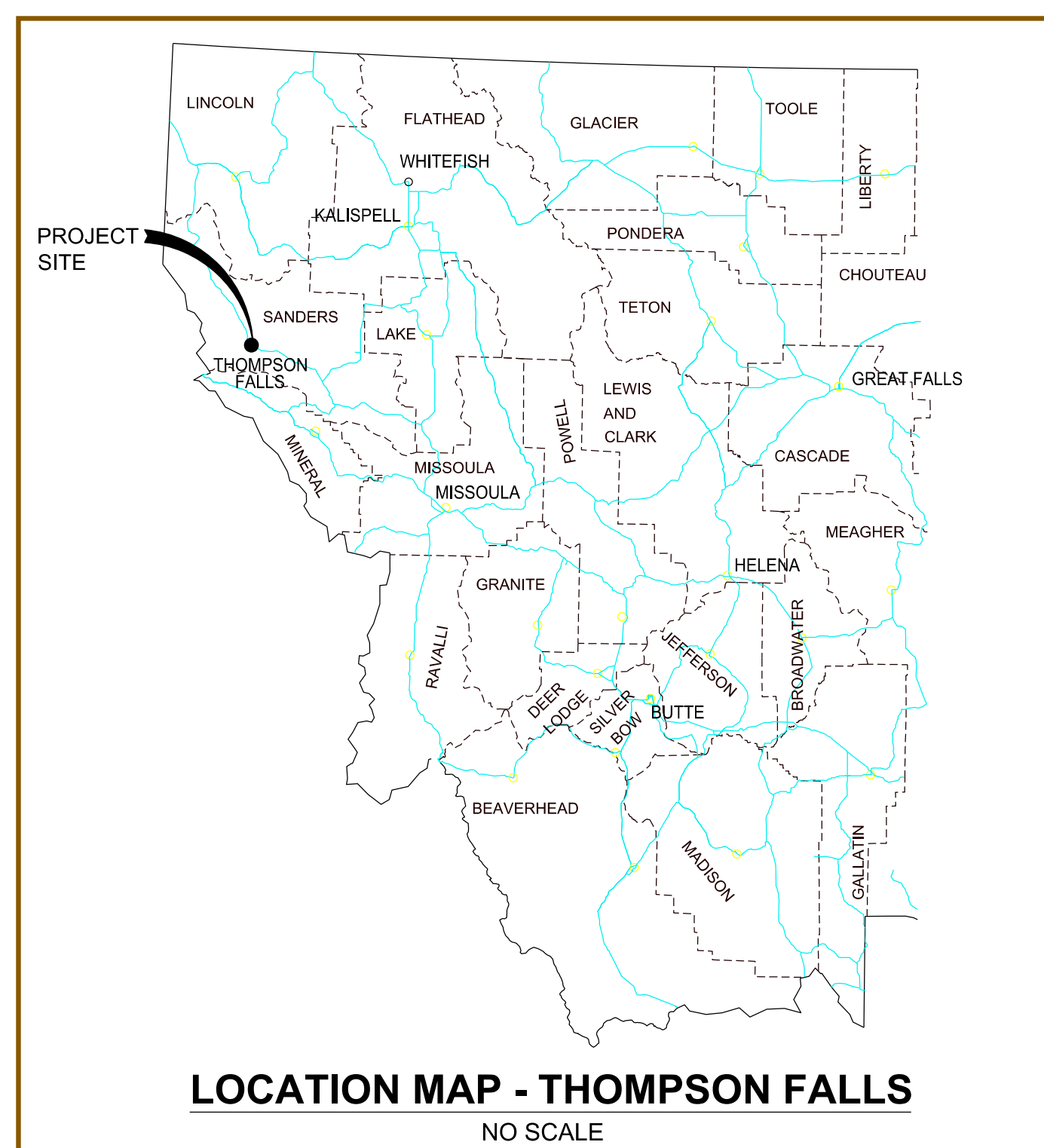
**Know what's below. Call before you dig.**

WGM GROUP, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



**SITE VICINITY PLAN**  
NO SCALE



**LOCATION MAP - THOMPSON FALLS**  
NO SCALE

**Sheet Index**

- Sheet 1 - Cover Sheet
- Sheet 2 - Existing Site Survey
- Sheet 3 - Site Layout Plan
- Sheet 4 - Site Grading Plan
- Sheet 5 - Site Landscape Plan
- Sheet 6 - Site Irrigation Plan - Demolition
- Sheet 7 - Site Irrigation Plan
- Sheet 8 - Landscape Details 1
- Sheet 9 - Landscape Details 2
- Sheet 10 - Irrigation Details
- Sheet 11 - Site Construction Details
- Sheet 12 - Restroom and Pavilion Plans
- Sheet 13 - Stage Shelter Details 1
- Sheet 14 - Stage Shelter Details 2
- Sheet 15 - Stage Shelter Details 3
- Sheet 16 - Stage Shelter Details 4
- Sheet 17 - Stage Shelter Details 5
- Sheet 18 - Electrical - 1
- Sheet 19 - Electrical - 2
- Sheet 20 - Electrical - 3
- Sheet 21 - Electrical - 4

See Note regarding disposition of existing sprinkler heads prior to beginning construction work on this project on Sheet 6, Irrigation Plan - Demolition.

**PROJECT COVER SHEET**  
**AINSWORTH PARK MASTER PLAN**  
**THOMPSON FALLS, MONTANA**

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: BFL  
 DRAFT: BFL  
 APPROVE: -  
 DATE: -

SEPT 6, 2019

SHEET **1** OF **21**

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REVISIONS:

NO.	DESCRIPTION	DATE

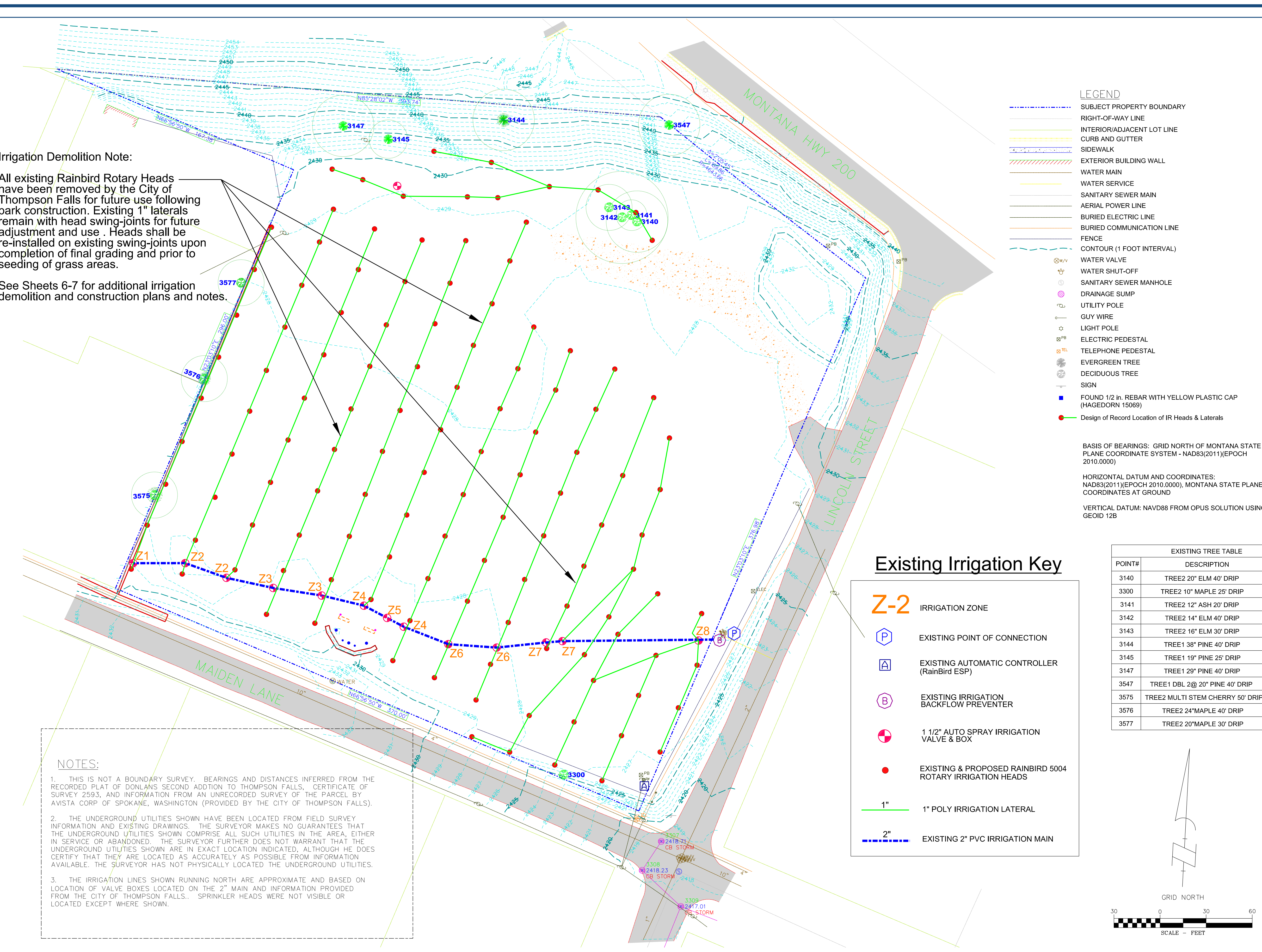
PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: -  
 DRAFT: KLM  
 APPROVE: -  
 DATE: -

**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- RIGHT-OF-WAY LINE
- INTERIOR/ADJACENT LOT LINE
- CURB AND GUTTER
- SIDEWALK
- EXTERIOR BUILDING WALL
- WATER MAIN
- WATER SERVICE
- SANITARY SEWER MAIN
- AERIAL POWER LINE
- BURIED ELECTRIC LINE
- BURIED COMMUNICATION LINE
- FENCE
- CONTOUR (1 FOOT INTERVAL)
- WATER VALVE
- + WATER SHUT-OFF
- SANITARY SEWER MANHOLE
- DRAINAGE SUMP
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- ELECTRIC PEDESTAL
- TELEPHONE PEDESTAL
- EVERGREEN TREE
- DECIDUOUS TREE
- SIGN
- FOUND 1/2 in. REBAR WITH YELLOW PLASTIC CAP (HAGEDORN 15069)
- Design of Record Location of IR Heads & Laterals

BASIS OF BEARINGS: GRID NORTH OF MONTANA STATE PLANE COORDINATE SYSTEM - NAD83(2011)(EPOCH 2010.0000)  
 HORIZONTAL DATUM AND COORDINATES: NAD83(2011)(EPOCH 2010.0000), MONTANA STATE PLANE COORDINATES AT GROUND  
 VERTICAL DATUM: NAVD88 FROM OPUS SOLUTION USING GEOID 12B

**Irrigation Demolition Note:**  
 All existing Rainbird Rotary Heads have been removed by the City of Thompson Falls for future use following park construction. Existing 1" laterals remain with head swing-joints for future adjustment and use. Heads shall be re-installed on existing swing-joints upon completion of final grading and prior to seeding of grass areas.  
 See Sheets 6-7 for additional irrigation demolition and construction plans and notes.



**Existing Irrigation Key**

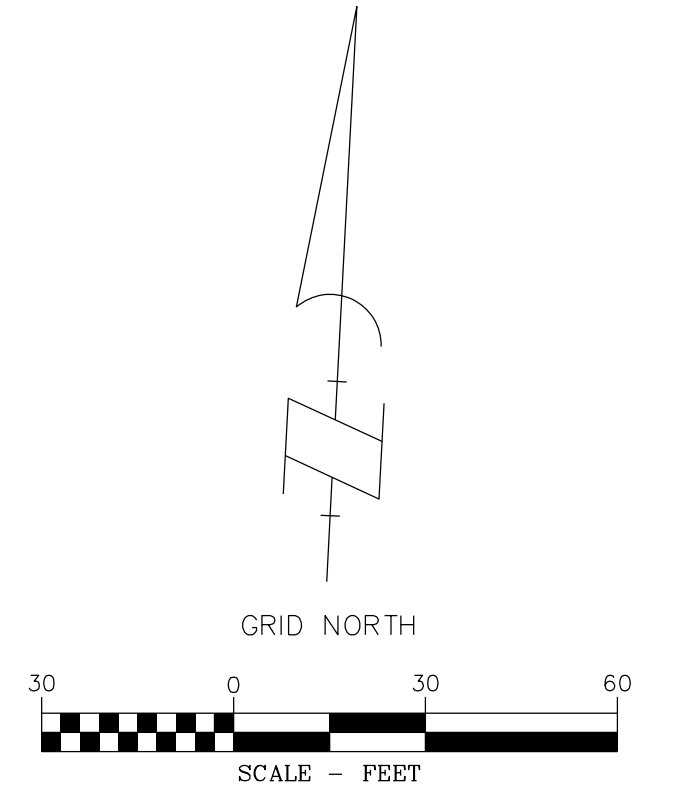
- Z-2 IRRIGATION ZONE
- P EXISTING POINT OF CONNECTION
- A EXISTING AUTOMATIC CONTROLLER (RainBird ESP)
- B EXISTING IRRIGATION BACKFLOW PREVENTER
- 1 1/2" AUTO SPRAY IRRIGATION VALVE & BOX
- EXISTING & PROPOSED RAINBIRD 5004 ROTARY IRRIGATION HEADS
- 1" 1" POLY IRRIGATION LATERAL
- 2" EXISTING 2" PVC IRRIGATION MAIN

**EXISTING TREE TABLE**

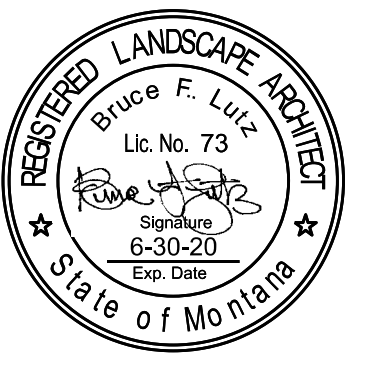
POINT#	DESCRIPTION
3140	TREE2 20" ELM 40' DRIP
3300	TREE2 10" MAPLE 25' DRIP
3141	TREE2 12" ASH 20' DRIP
3142	TREE2 14" ELM 40' DRIP
3143	TREE2 16" ELM 30' DRIP
3144	TREE1 38" PINE 40' DRIP
3145	TREE1 19" PINE 25' DRIP
3147	TREE1 29" PINE 40' DRIP
3547	TREE1 DBL 2@ 20" PINE 40' DRIP
3575	TREE2 MULTI STEM CHERRY 50' DRIP
3576	TREE2 24" MAPLE 40' DRIP
3577	TREE2 20" MAPLE 30' DRIP

**NOTES:**

- THIS IS NOT A BOUNDARY SURVEY. BEARINGS AND DISTANCES INFERRED FROM THE RECORDED PLAT OF DONLANS SECOND ADDITION TO THOMPSON FALLS, CERTIFICATE OF SURVEY 2593, AND INFORMATION FROM AN UNRECORDED SURVEY OF THE PARCEL BY AVISTA CORP OF SPOKANE, WASHINGTON (PROVIDED BY THE CITY OF THOMPSON FALLS).
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- THE IRRIGATION LINES SHOWN RUNNING NORTH ARE APPROXIMATE AND BASED ON LOCATION OF VALVE BOXES LOCATED ON THE 2" MAIN AND INFORMATION PROVIDED FROM THE CITY OF THOMPSON FALLS. SPRINKLER HEADS WERE NOT VISIBLE OR LOCATED EXCEPT WHERE SHOWN.



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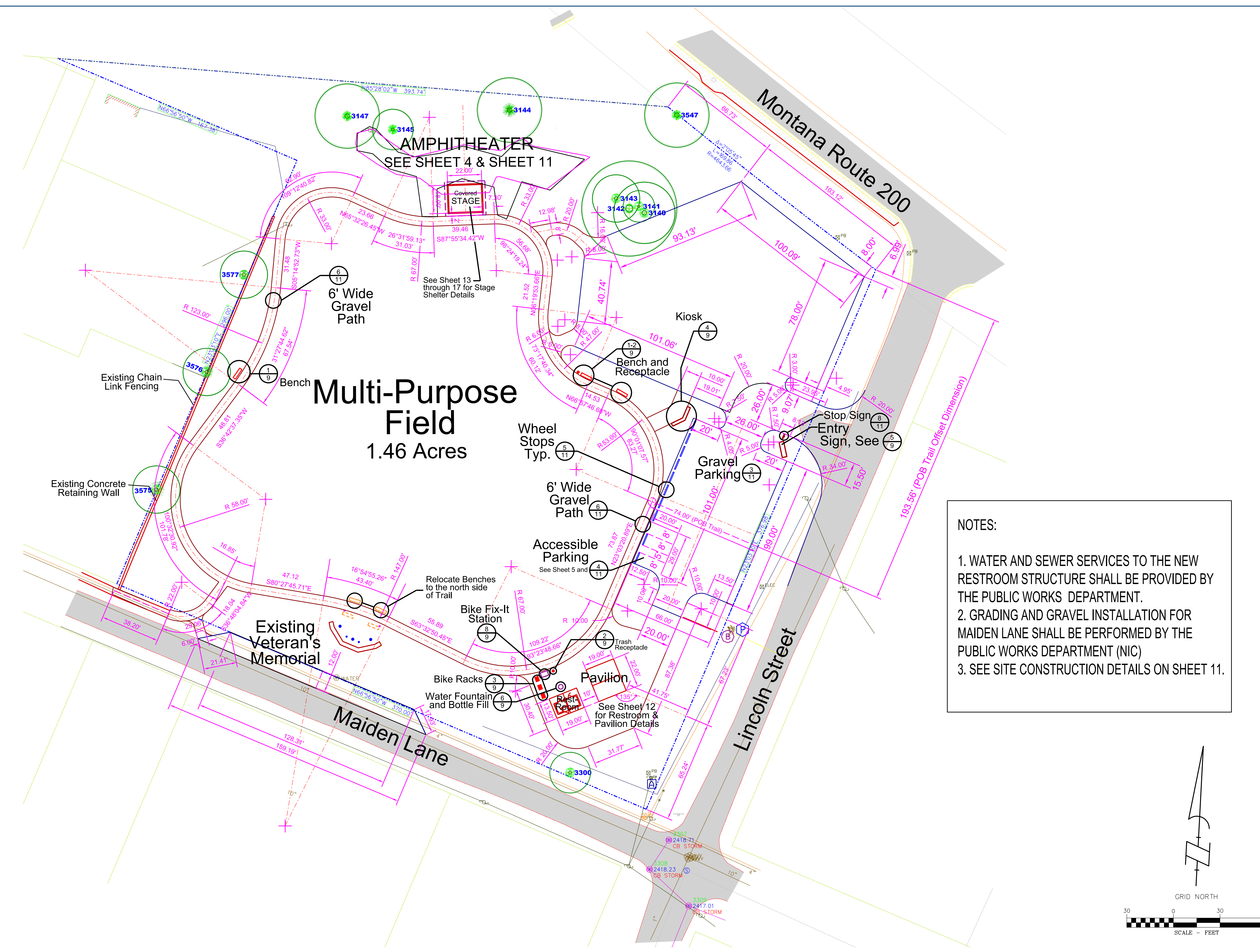
**SITE LAYOUT PLAN**  
**AINSWORTH PARK MASTER PLAN**  
**THOMPSON FALLS, MONTANA**

REVISIONS:

NO.	DESCRIPTION	DATE

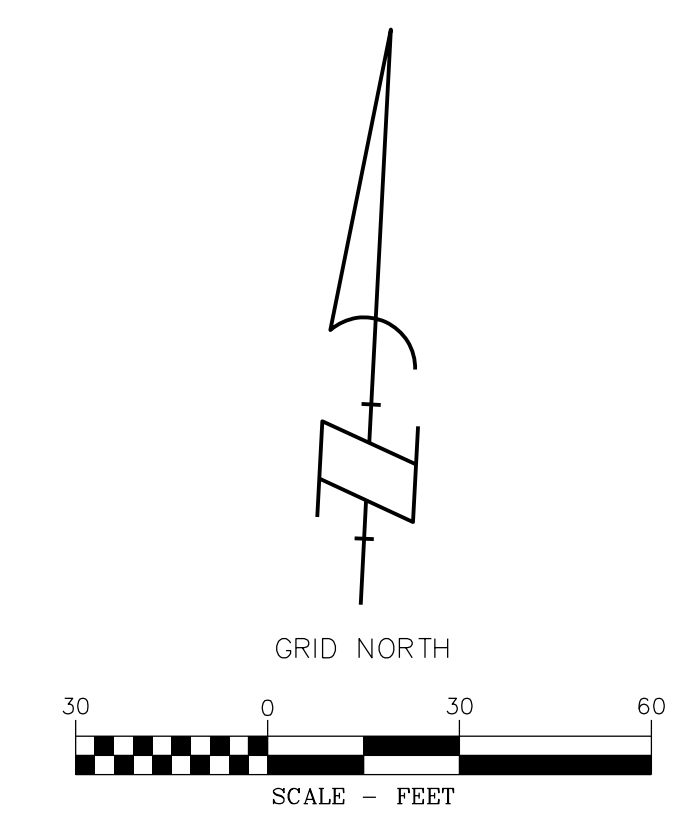
PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: BFL  
 DRAFT: BFL  
 APPROVE: -  
 DATE: -

SEPT 6, 2019  
 SHEET **3 OF 21**

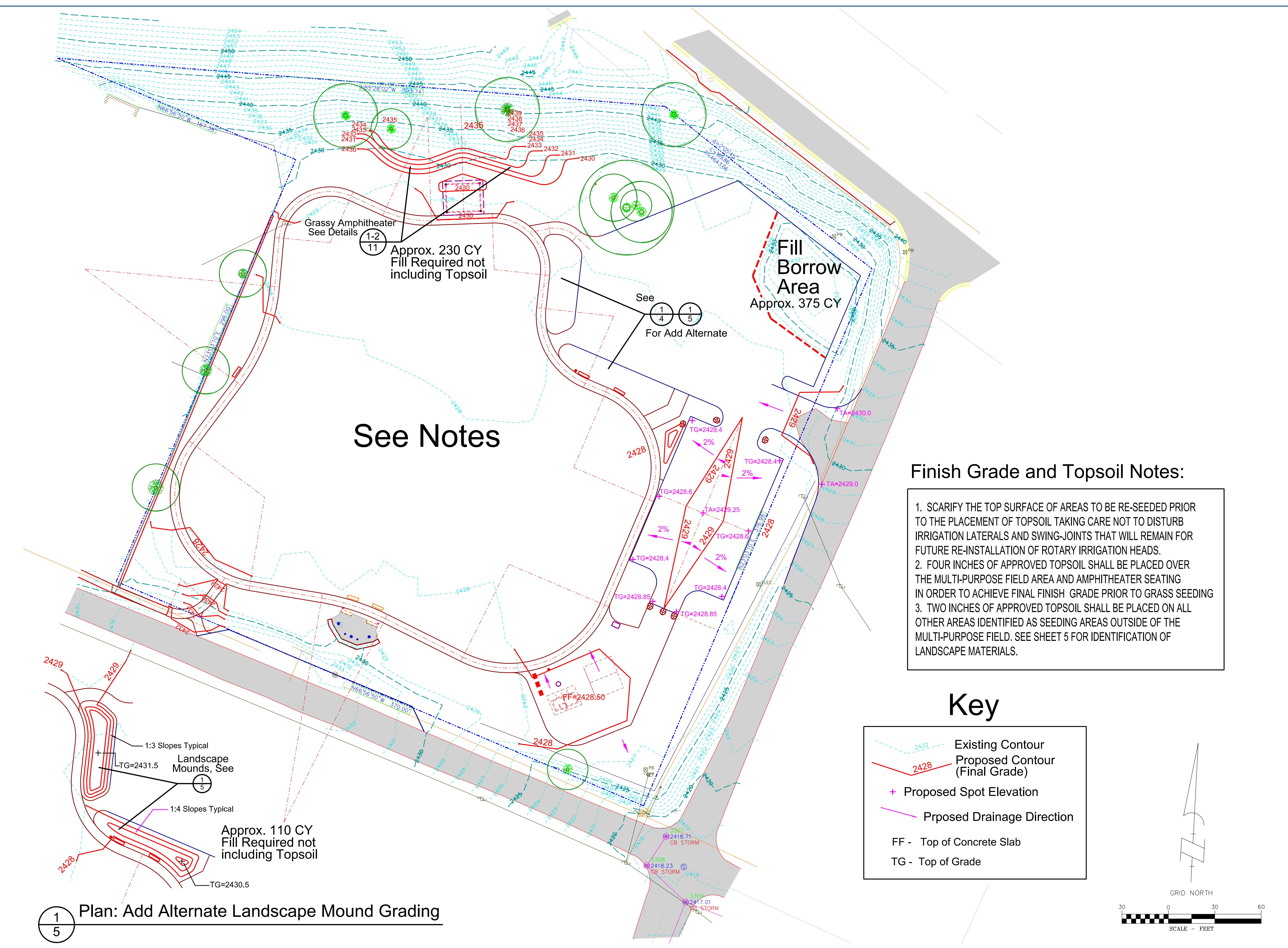


**NOTES:**

1. WATER AND SEWER SERVICES TO THE NEW RESTROOM STRUCTURE SHALL BE PROVIDED BY THE PUBLIC WORKS DEPARTMENT.
2. GRADING AND GRAVEL INSTALLATION FOR MAIDEN LANE SHALL BE PERFORMED BY THE PUBLIC WORKS DEPARTMENT (NIC)
3. SEE SITE CONSTRUCTION DETAILS ON SHEET 11.



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See Notes

**Finish Grade and Topsoil Notes:**

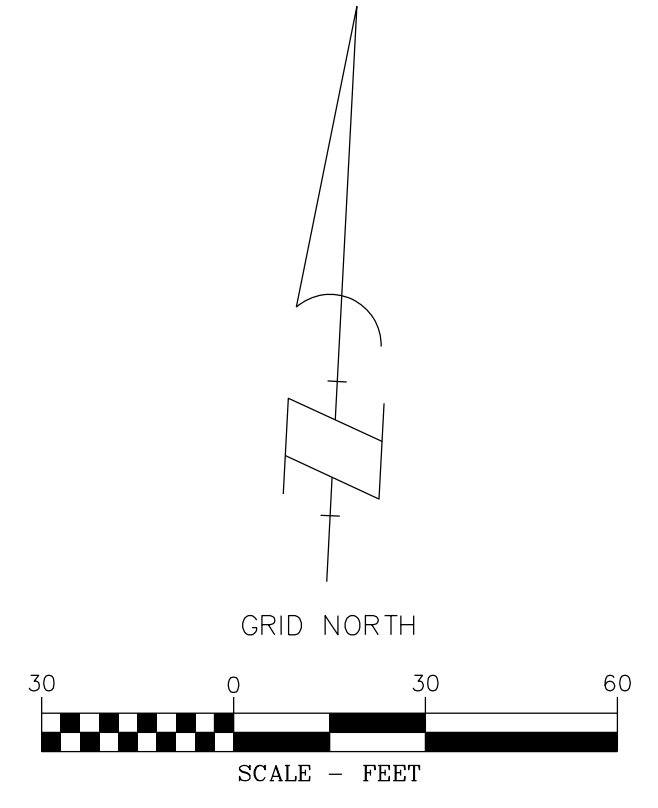
1. SCARIFY THE TOP SURFACE OF AREAS TO BE RE-SEEDING PRIOR TO THE PLACEMENT OF TOPSOIL TAKING CARE NOT TO DISTURB IRRIGATION LATERALS AND SWING-JOINTS THAT WILL REMAIN FOR FUTURE RE-INSTALLATION OF ROTARY IRRIGATION HEADS.
2. FOUR INCHES OF APPROVED TOPSOIL SHALL BE PLACED OVER THE MULTI-PURPOSE FIELD AREA AND AMPHITHEATER SEATING IN ORDER TO ACHIEVE FINAL FINISH GRADE PRIOR TO GRASS SEEDING
3. TWO INCHES OF APPROVED TOPSOIL SHALL BE PLACED ON ALL OTHER AREAS IDENTIFIED AS SEEDING AREAS OUTSIDE OF THE MULTI-PURPOSE FIELD. SEE SHEET 5 FOR IDENTIFICATION OF LANDSCAPE MATERIALS.

**Key**

- Existing Contour
- Proposed Contour (Final Grade)
- Proposed Spot Elevation
- Proposed Drainage Direction
- FF - Top of Concrete Slab
- TG - Top of Grade

1:3 Slopes Typical  
Landscape Mounds, See  
1:4 Slopes Typical  
Approx. 110 CY Fill Required not including Topsoil

1/5 Plan: Add Alternate Landscape Mound Grading

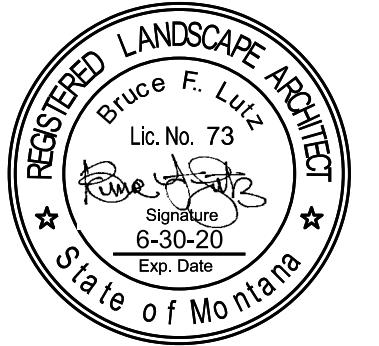


REVISIONS:

NO.	DESCRIPTION	DATE

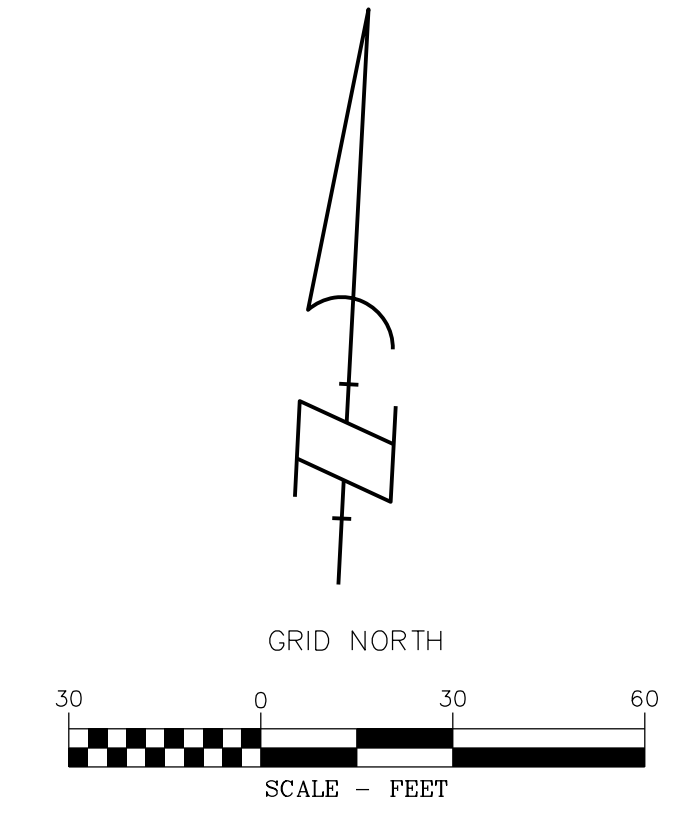
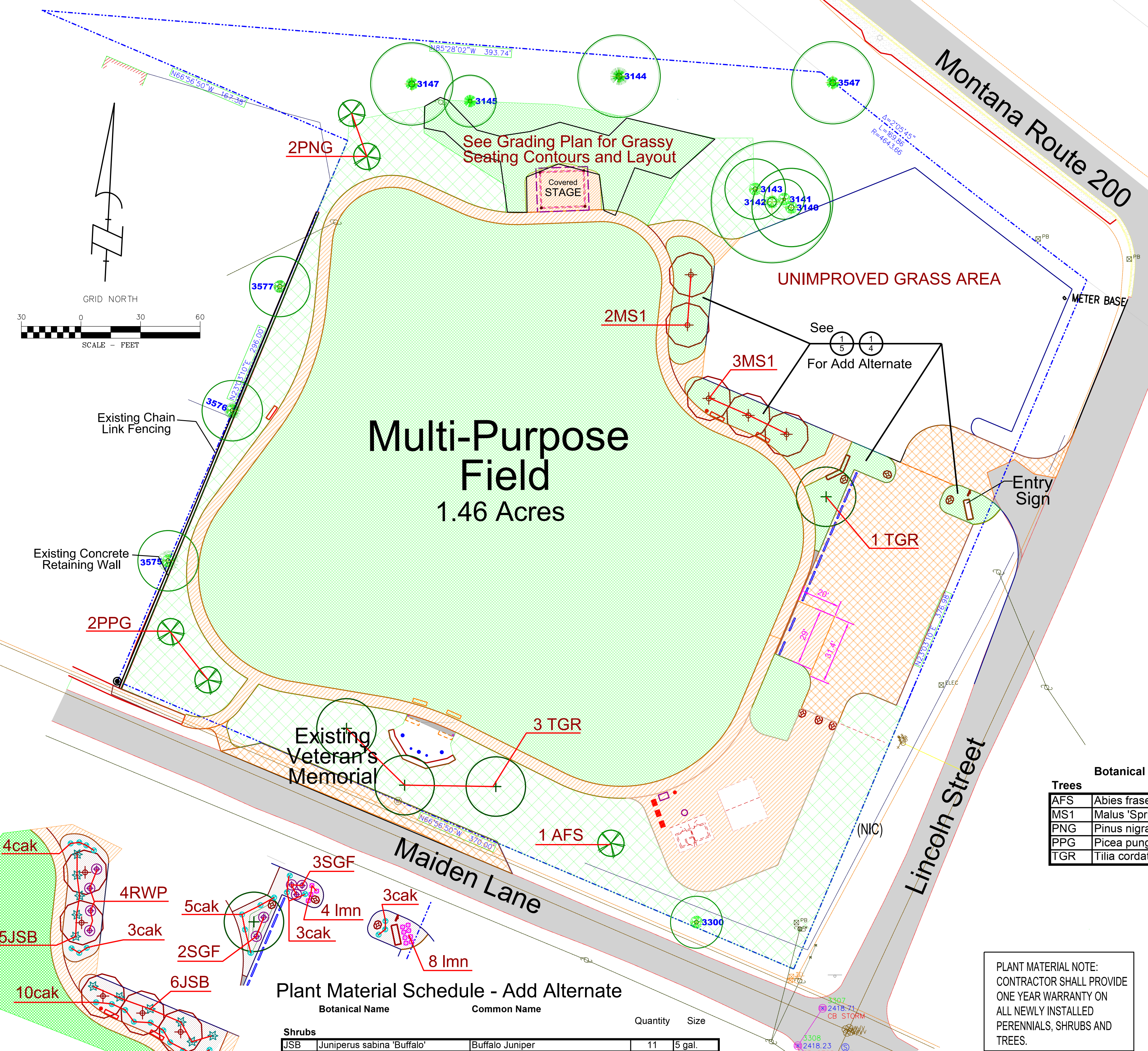
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LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: BFL  
DRAFT: BFL  
APPROVE: -  
DATE: -

FILE: W:\Projects\170725\CAD\_Data\Survey\170725\_BASE\_E.dwg



**Landscape Materials Key**

3PFP	Plant Type
Plant	Plant Symbol
Quantity	
69,938 SF	Drill Seeded Grass 4" Topsoil (See Note Below)
21,511 SF	Drill Seeded Grass 2" Topsoil (See Note Below)
3650 SF	Cedar Shredded Mulch w/ Weed Barrier Fabric SEE ADD ALTERNATE
8,230 SF	3/4" Minus Gravel Parking Surface
12,687 SF	3/8" Minus Gravel Walking Surface
+	Deciduous Tree
⊗	Coniferous Tree
⊕	Small Flowering Tree
☆	Juniper
⊗	Shrub
⊕	Perennial Flower
⊕	Ornamental Grass
—	Aluminum Landscape Edging
⊗	Landscape Boulder 3/4 to 1 Ton Typical (5 Total)



**Plant Material Schedule**

Trees		Botanical Name	Common Name	Quantity	Size
AFS	Abies fraseri	Fraser Fir		1	8' hgt
MS1	Malus 'Spring Snow'	Spring Snow Crabapple		5	2.25" cal.
PNG	Pinus nigra	Austrian Pine		2	7-8' hgt
PPG	Picea pungens glauca	Colorado Blue Spruce		2	7-8' hgt
TGR	Tilia cordata "Greenspire"	Greenspire Little-Leaf Linden		4	2.25 cal.
				TOT	14

**Plant Material Schedule - Add Alternate**

Shrubs		Botanical Name	Common Name	Quantity	Size
JSB	Juniperus sabina 'Buffalo'	Buffalo Juniper		11	5 gal.
RWP	Rosa 'Winnipeg Parks'	Winnipeg Park Shrub Rose		4	5 gal.
SGF	Spiraea x bumalda 'Goldflame'	Goldflame Spirea		5	5 gal.
				TOT	20
Perennials		Botanical Name	Common Name	Quantity	Size
cak	Calamagrostis x acutiflora	Karl Foerster Reed Grass		28	1 gal.
lmn	Lupinus "Gallery Mix"	Gallery Mix Lupines		12	1 gal.
				TOT	28



**PLANT MATERIAL NOTE:**  
CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY ON ALL NEWLY INSTALLED PERENNIALS, SHRUBS AND TREES.

**Grass Seeding Notes:**

- 1) SEE SHEET 4 (GRADING) FOR TOPSOIL NOTES.
- 2) GRASS SEED MIX SHALL CONSIST OF THREE APPROVED KENTUCKY BLUE GRASSES (80% OF TOTAL SEED MIX) AND ONE VARIETY OF PERENNIAL RYEGRASS (20% OF TOTAL SEED MIX) AT A MINIMUM BROADCAST RATE OF 5 POUNDS PER 1000 SQUARE FEET.
- 3) GRASS SEED SHALL BE DRILLED INTO FINAL GRADE SURFACE.
- 4) SEEDED AREAS SHALL BE WATERED AND MAINTAINED THROUGH THE FIRST SEASON OR UNTIL THE CITY OF THOMPSON FALLS ACCEPTS THE FIELD AND TAKES OVER MAINTENANCE.

REVISIONS:

NO.	DESCRIPTION	DATE

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: BFL  
 DRAFT: BFL  
 APPROVE: -  
 DATE: -

**Irrigation Demolition Notes:**

All existing Rainbird Rotary Heads have been removed by the City of Thompson Falls for future use following park construction. Existing 1" laterals remain with head swing-joints for future adjustment and use. Heads shall be re-installed on existing swing-joints upon completion of final grading and prior to seeding of grass areas.

See Sheets 6-7 for additional irrigation demolition and construction plans and notes.

The City of Thompson Falls shall flag all existing irrigation head locations prior to the beginning of construction. It is the contractor's responsibility to protect the head locations and flagging during the course of construction and until heads are re-installed.

**Irrigation Key**

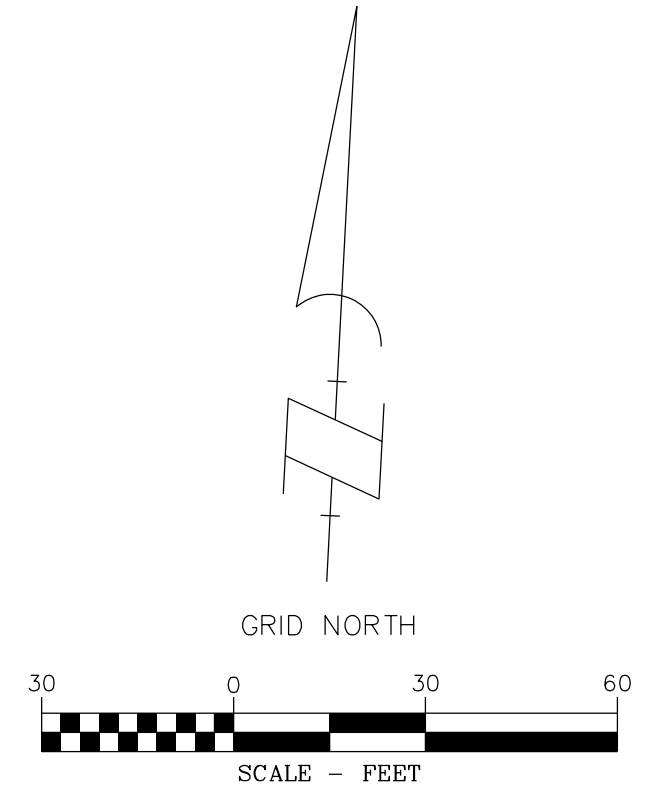
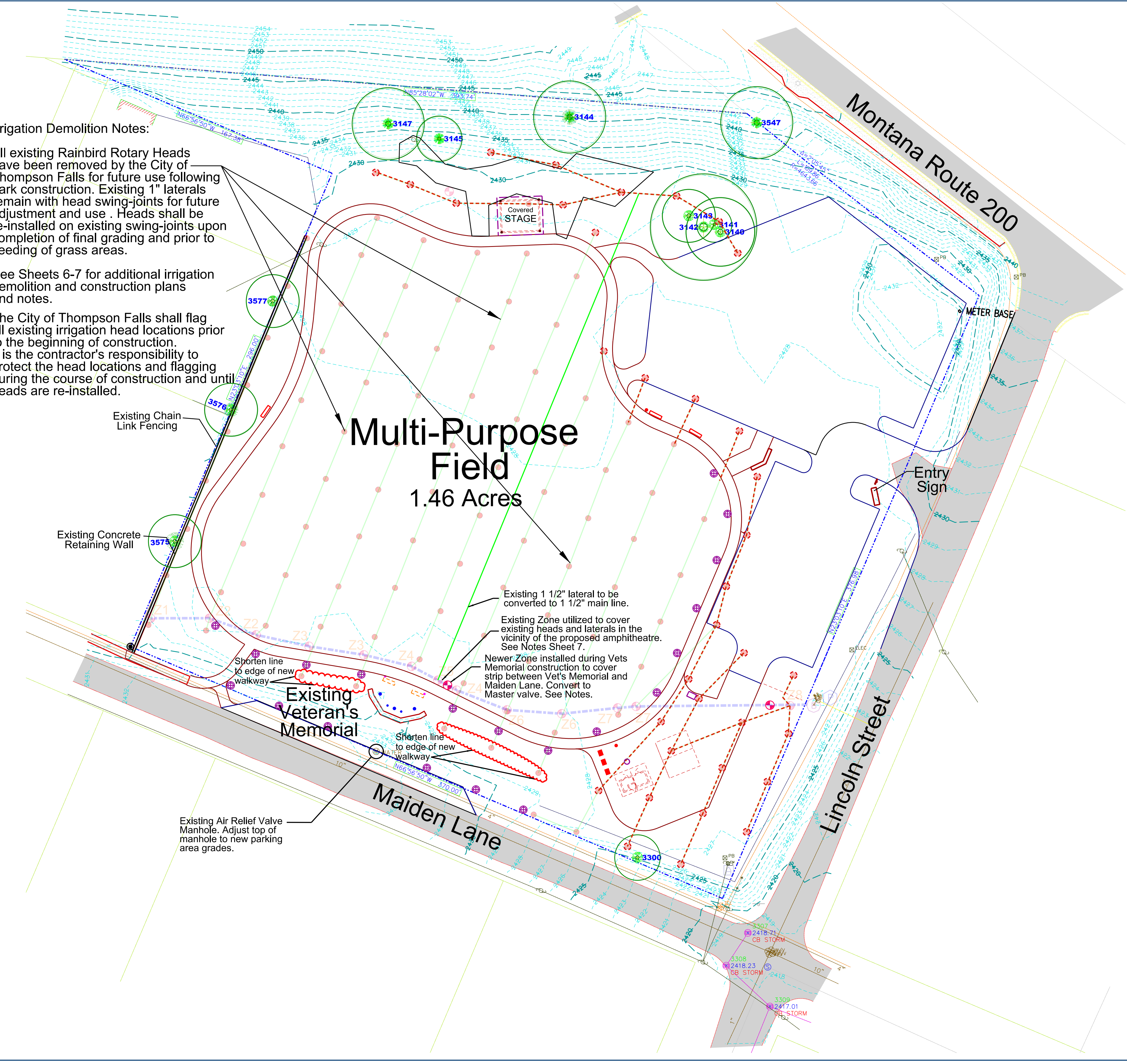
- Z-2** IRRIGATION ZONE
- P** POINT OF CONNECTION
- A** EXISTING AUTOMATIC CONTROLLER
- B** IRRIGATION BACKFLOW PREVENTER
- +** EXISTING 1" AUTO SPRAY IRRIGATION VALVE & BOX
- C** QUICK COUPLER
- \*** FORMER & FUTURE RE-INSTALL LOCATION FOR ROTARY SPRINKLER HEADS
- +** RE-LOCATED RAINBIRD 5004 ROTARY IRRIGATION HEADS (31 Available)
- - -** ABANDON AND CAP EXISTING LATERAL IF PART OF ACTIVE ZONE

**Irrigation Demolition Notes:**

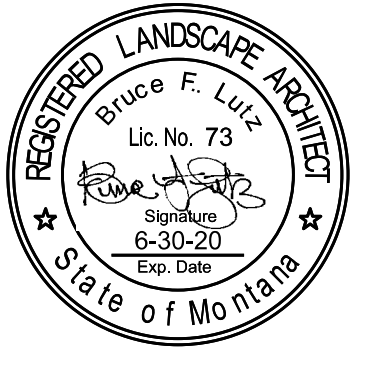
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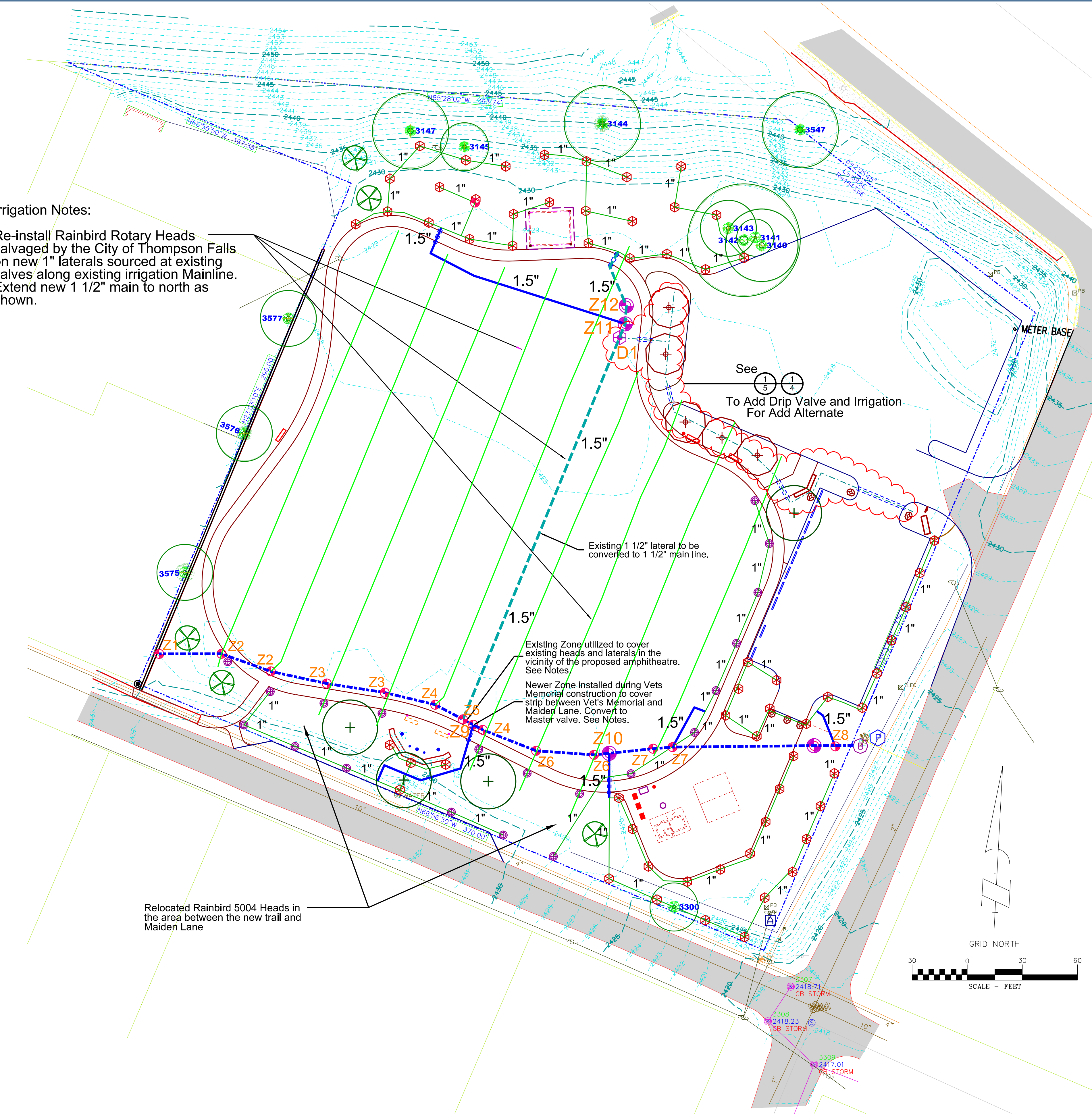


**Irrigation Key**

- Z-2** ROTARY HEAD IRRIGATION ZONE
- D-1** DRIP ZONE
- EXISTING POINT OF CONNECTION
- EXISTING AUTOMATIC CONTROLLER (RainBird ESP)
- EXISTING IRRIGATION BACKFLOW PREVENTER
- EXISTING AUTO SPRAY IRRIGATION VALVE & BOX
- NEW 1.5" AUTO SPRAY IRRIGATION VALVE & BOX
- NEW 1" AUTO DRIP IRRIGATION VALVE & BOX
- QUICK COUPLER
- EXISTING RAINBIRD 5004 ROTARY IRRIGATION HEADS REMOVED BY CITY
- RE-LOCATED RAINBIRD 5004 ROTARY IRRIGATION HEADS (31 Available)
- NEW RainBird R-Van 24 MATCHED PRECIPITATION ROTARY NOZZLE HEAD 17-24' R @45psi
- EXISTING 2" PVC IRRIGATION MAIN
- EXISTING 1 1/2" PVC IRRIGATION LATERAL TO BE CONVERTED TO FUTURE 1 1/2" MAIN
- NEW 1 1/2" PVC IRRIGATION LATERAL
- 1" POLY IRRIGATION LATERAL TO BE USED FOR FUTURE IRRIGATION
- 1" POLY IRRIGATION DRIP IRRIGATION SUPPLY
- DRIP IRRIGATED AREAS
- 4" Sch. 40 IRRIGATION SLEEVING

**Irrigation Notes:**

Re-install Rainbird Rotary Heads salvaged by the City of Thompson Falls on new 1" laterals sourced at existing valves along existing irrigation Mainline. Extend new 1 1/2" main to north as shown.



See To Add Drip Valve and Irrigation For Add Alternate

Existing 1 1/2" lateral to be converted to 1 1/2" main line.

Existing Zone utilized to cover existing heads and laterals in the vicinity of the proposed amphitheatre. See Notes.

Newer Zone installed during Vets Memorial construction to cover strip between Vet's Memorial and Maiden Lane. Convert to Master valve. See Notes.

Relocated Rainbird 5004 Heads in the area between the new trail and Maiden Lane

**Notes:**

- 1) The original installation of the existing irrigation was constructed 4 years ago by Kohler Sprinklers. To the best of our knowledge, Zone 5 was sized as a 1 1/2" lateral (now as a proposed Main) to serve the north portion of the site.
- 2) Please note that all existing heads were installed with funny pipe swing joints in order to facilitate height adjustment for finish grade.  
Contact Info for Dale Kohler, Kohler Sprinklers - ksprinks@hotmail.com
- 3) The City of Thompson Falls shall flag all existing irrigation head locations prior to the beginning of construction. It is the contractor's responsibility to protect the head locations and flagging during the course of construction and until heads are re-installed.

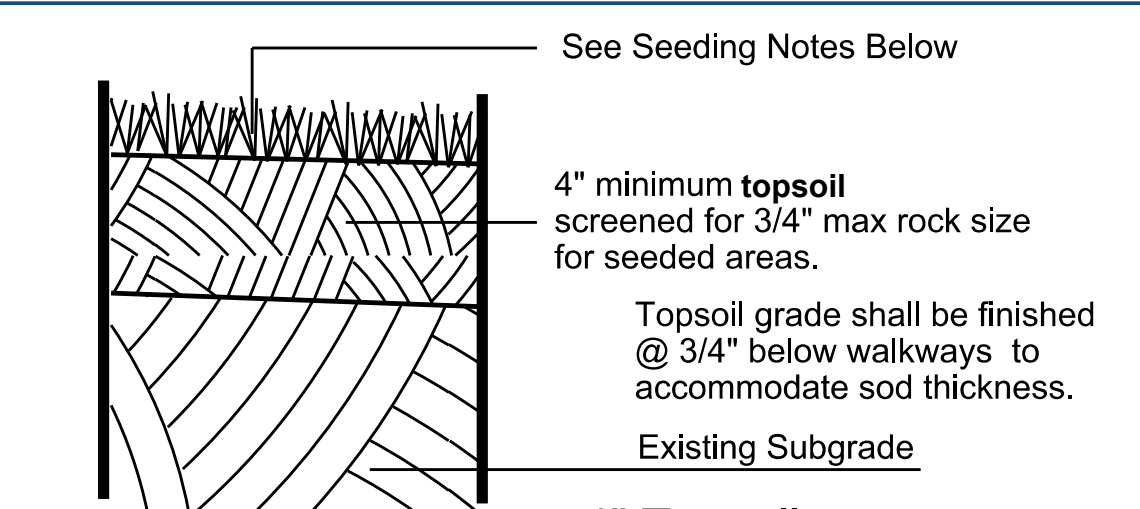
**PROPOSED IRRIGATION PLAN**  
**AINSWORTH PARK MASTER PLAN**  
**THOMPSON FALLS, MONTANA**

REVISIONS:		
NO.	DESCRIPTION	DATE

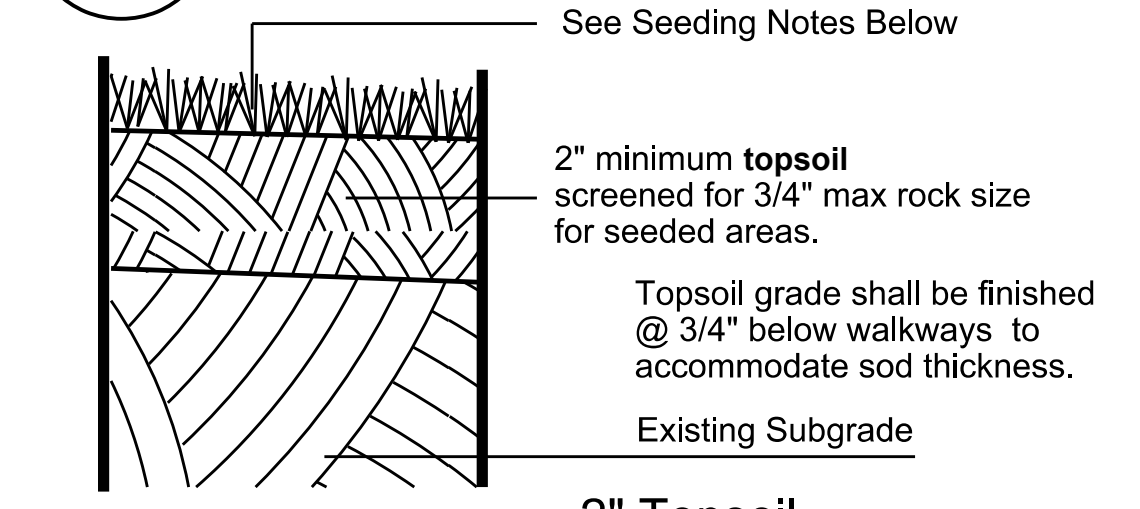
PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: BFL  
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 APPROVE: -  
 DATE: -

SEPT 6, 2019

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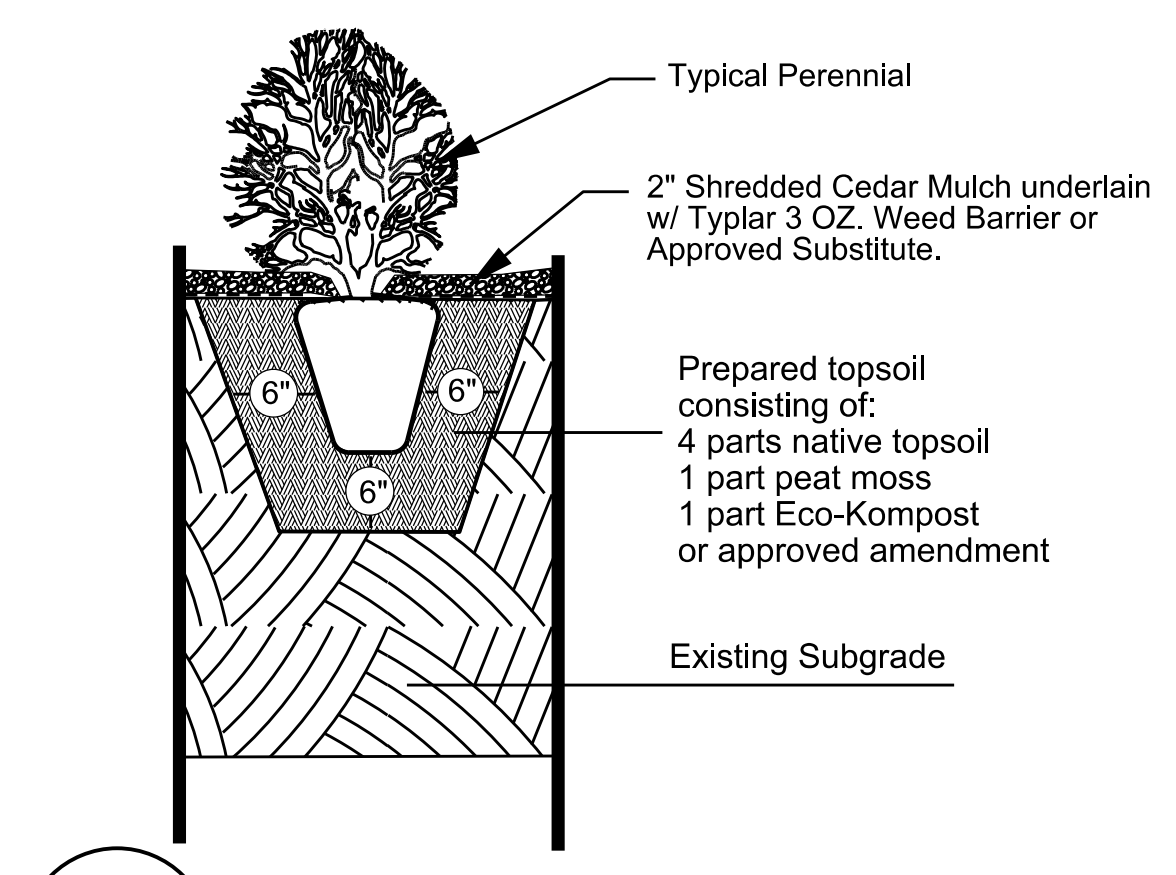
**1A** Typical Section: Seeded Grass Areas  
8 No Scale



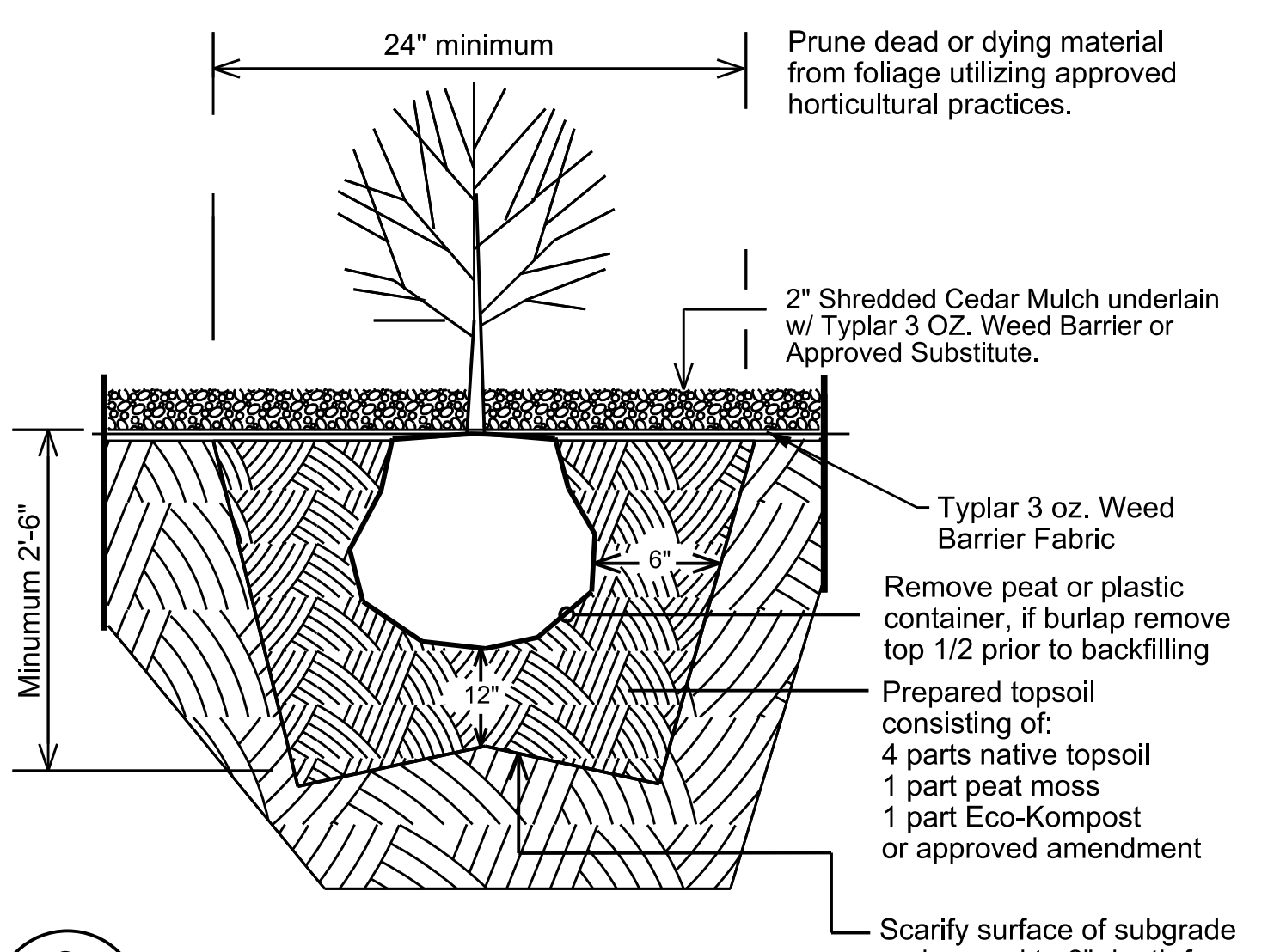
**1B** Typical Section: Seeded Grass Areas  
8 No Scale

**GRASS SEEDING NOTES:**

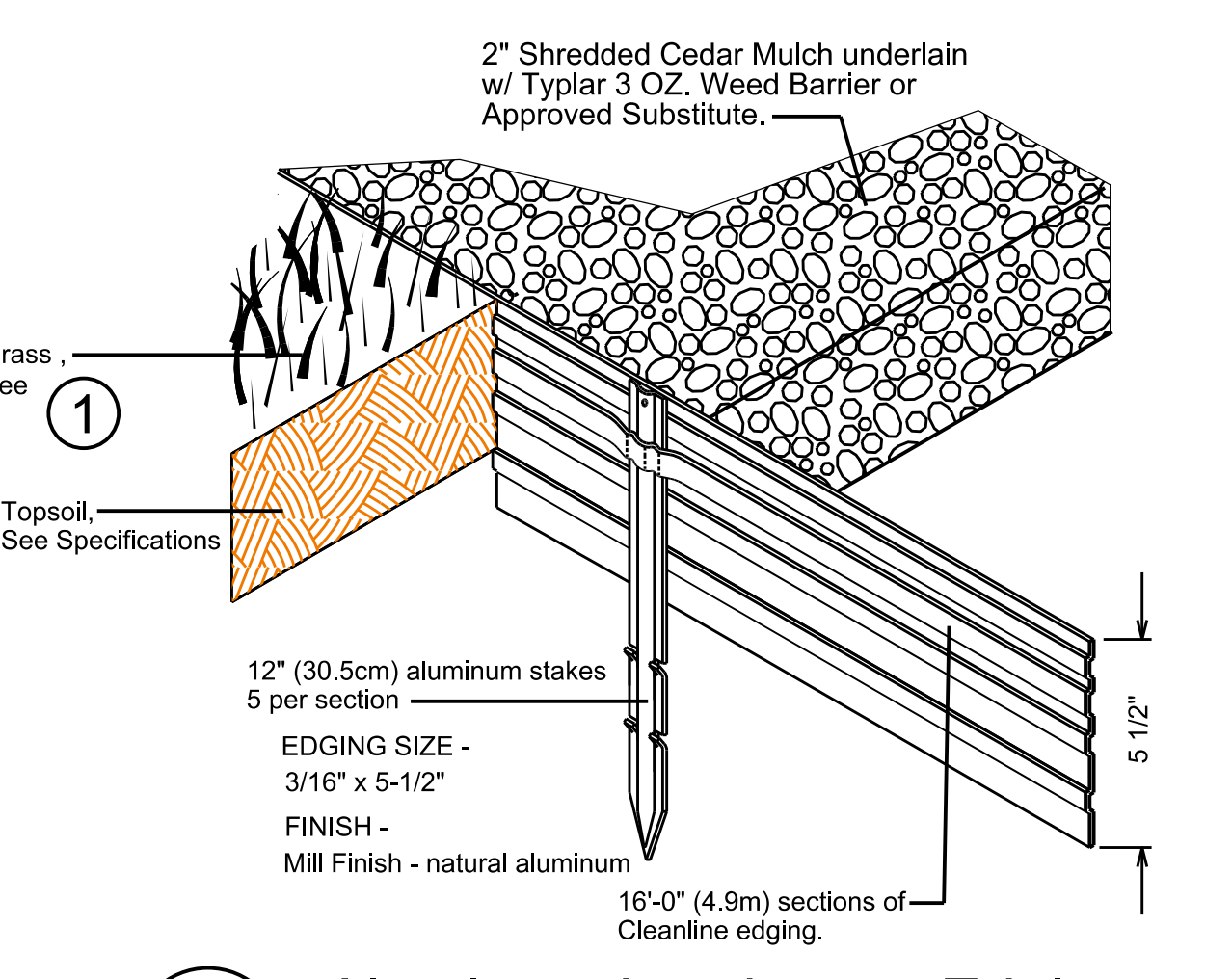
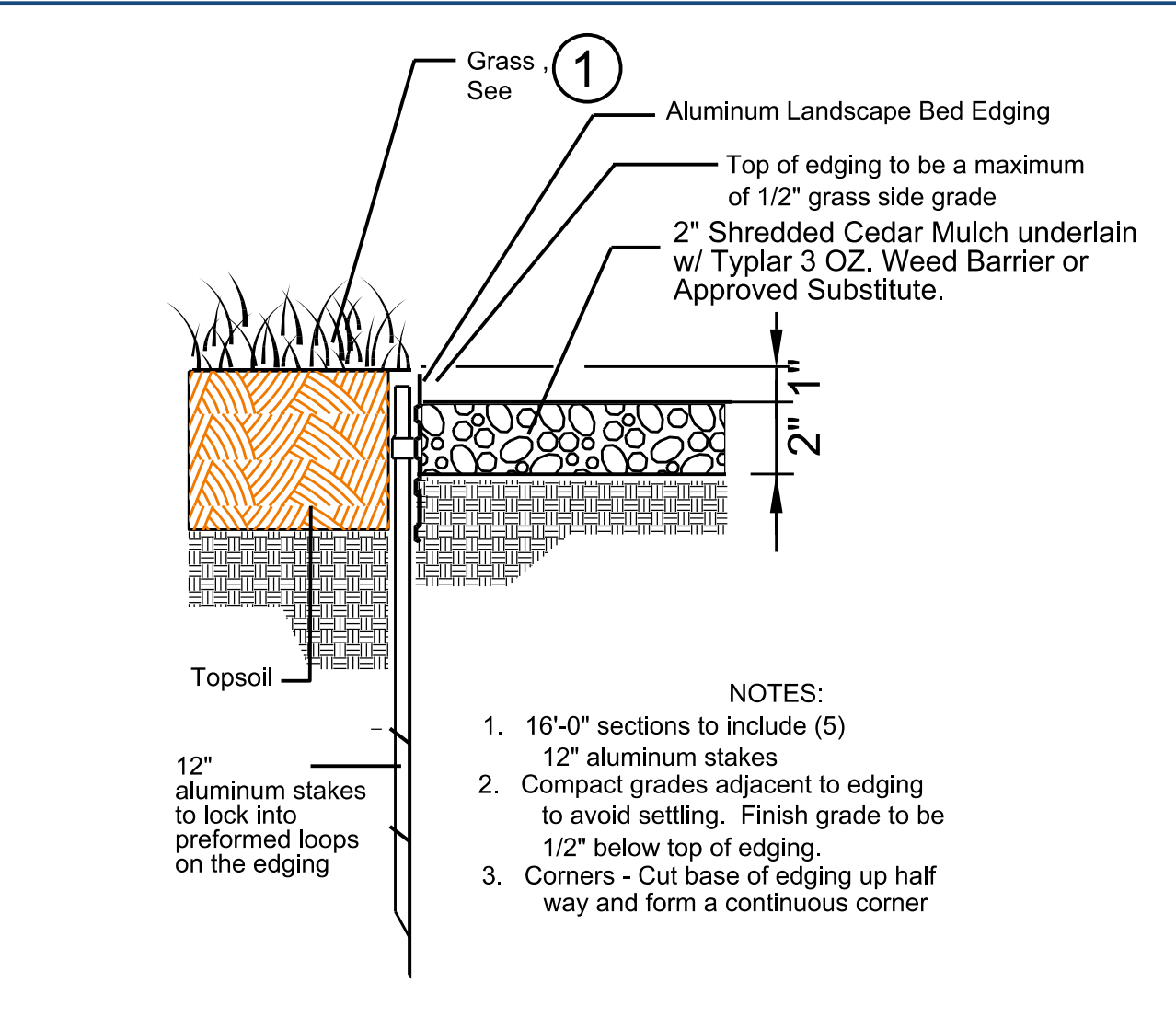
- 1) SEE SHEET 4 (GRADING) FOR TOPSOIL NOTES.
- 2) GRASS SEED MIX SHALL CONSIST OF THREE APPROVED KENTUCKY BLUE GRASSES (80% OF TOTAL SEED MIX) AND ONE VARIETY OF PERENNIAL RYEGRASS (20% OF TOTAL SEED MIX) AT A MINIMUM BROADCAST RATE OF 5 POUNDS PER 1000 SQUARE FEET.
- 3) GRASS SEED SHALL BE DRILLED INTO FINAL GRADE SURFACE.
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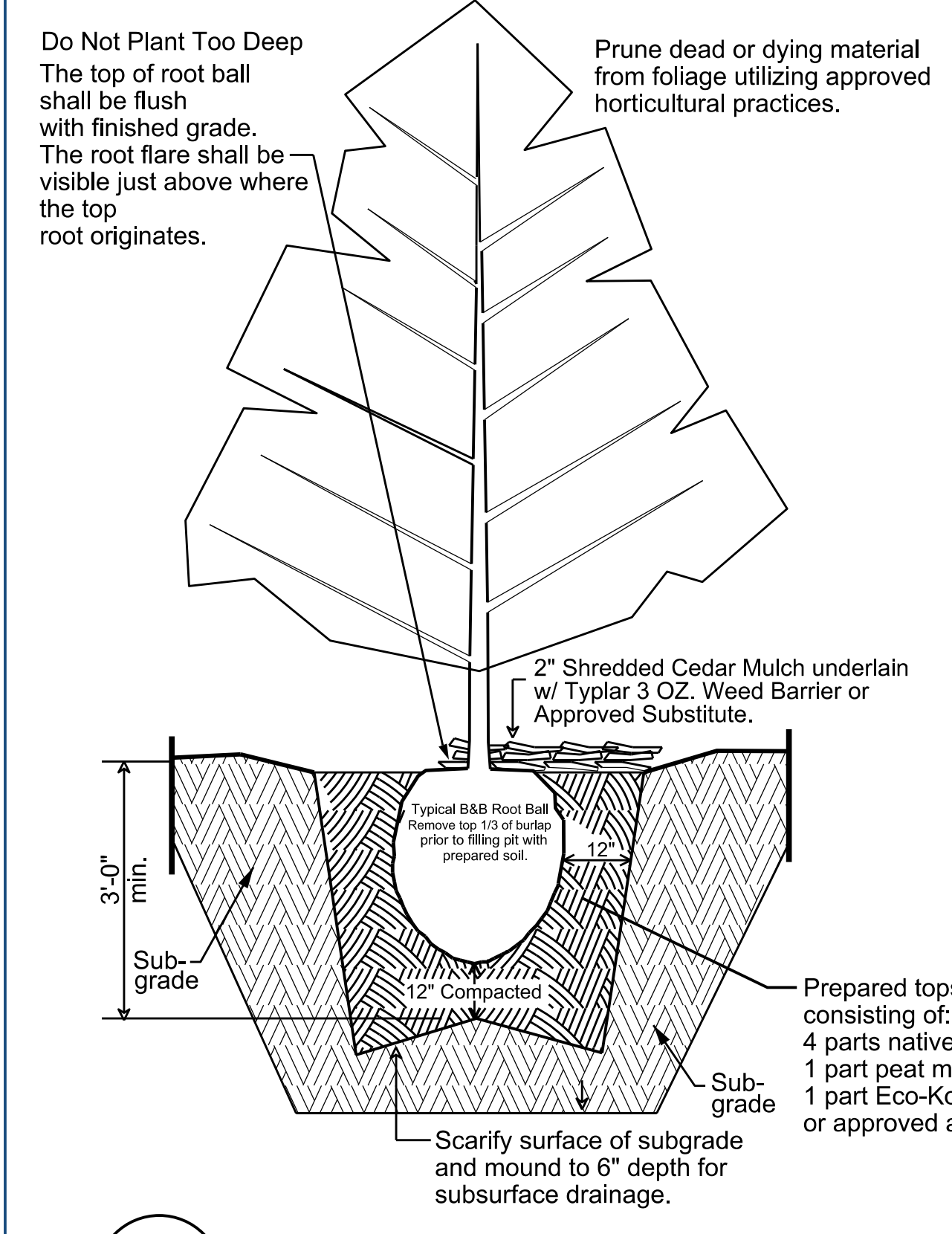
**2** Typical Section - Perennial Planters  
8 No Scale



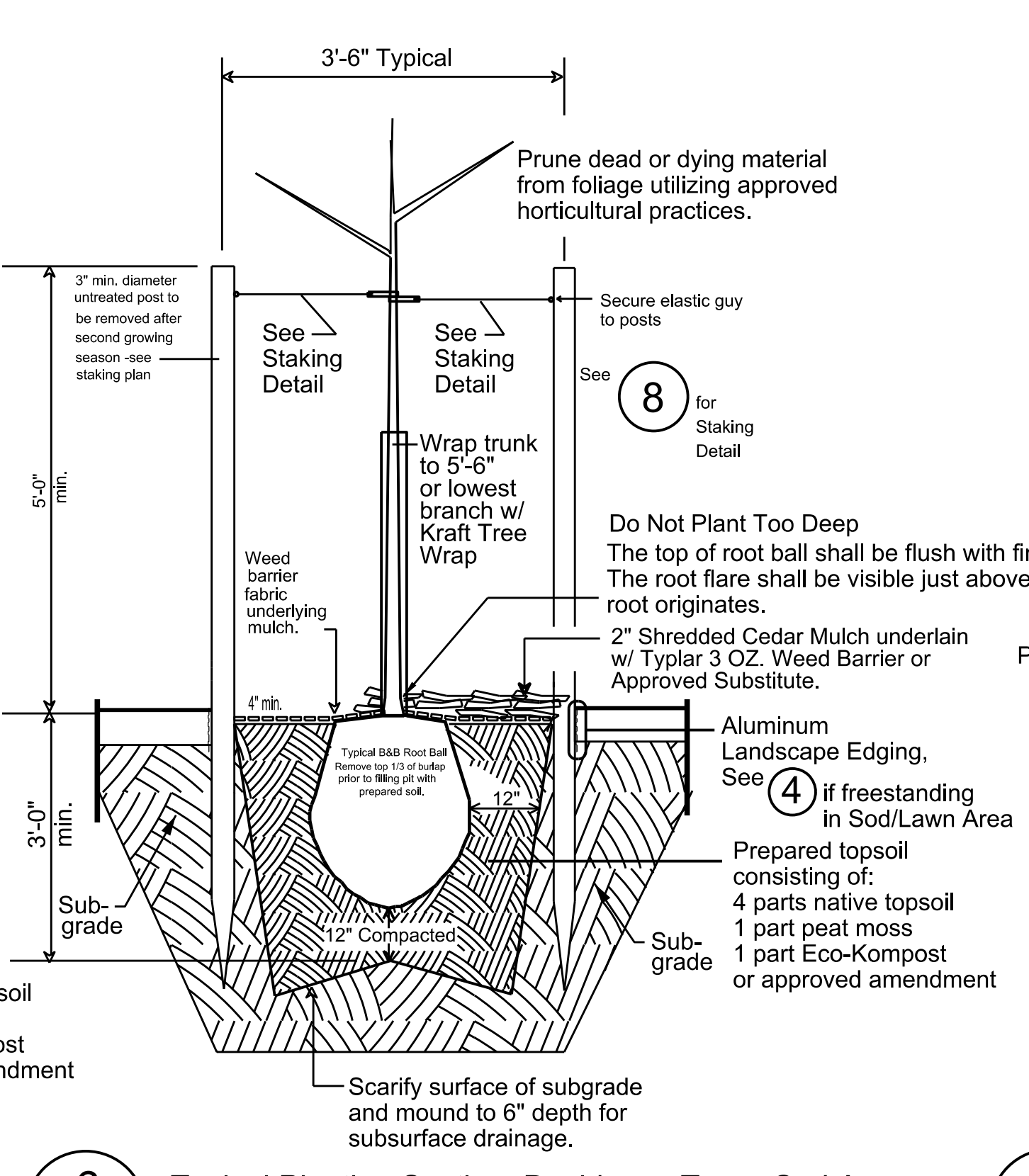
**3** Typical Planting Section- Shrubbery  
8 No Scale



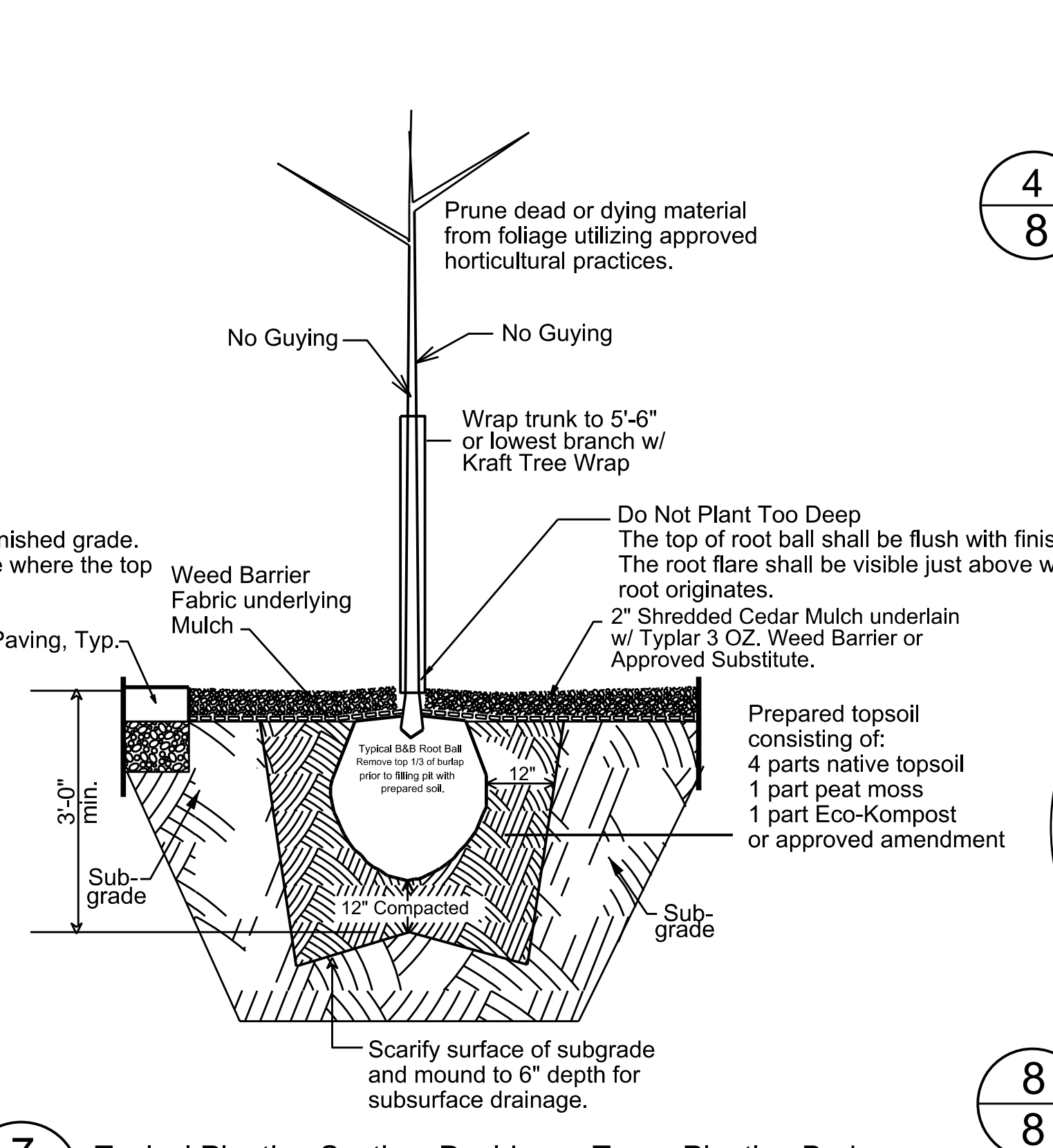
**4** Aluminum Landscape Edging  
8 No Scale



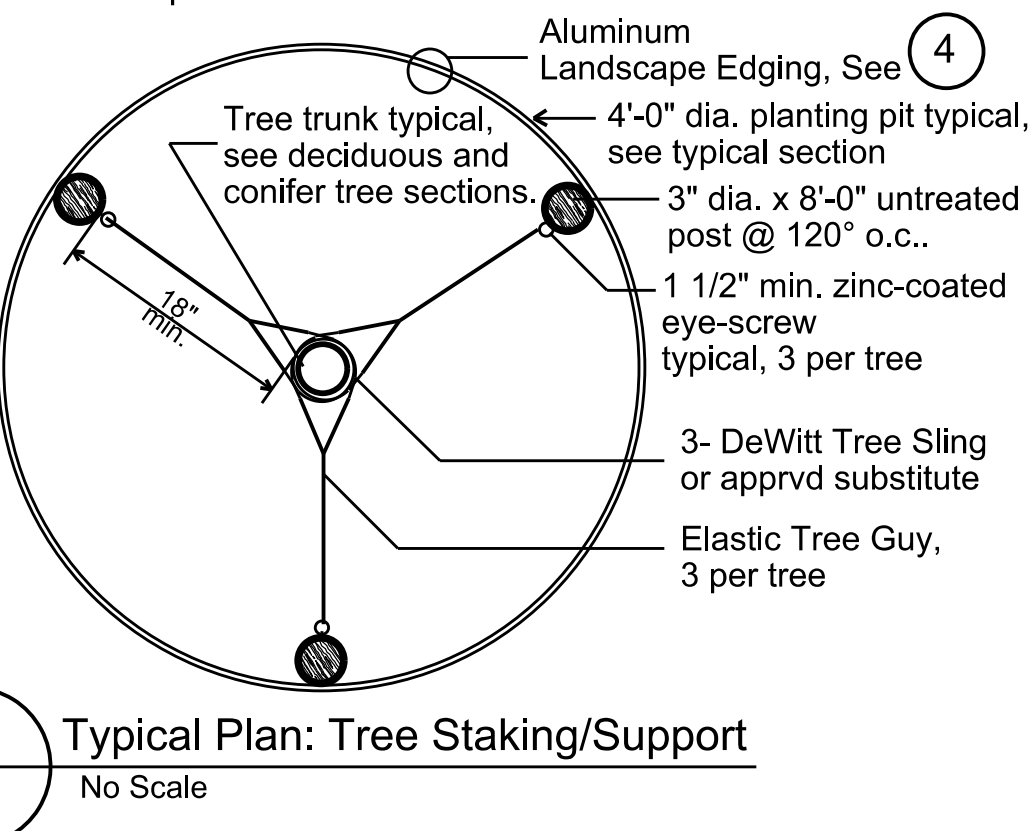
**5** Typical Planting Section: Coniferous Tree  
8 No Scale



**6** Typical Planting Section: Deciduous Tree - Sod Area  
8 No Scale



**7** Typical Planting Section: Deciduous Tree - Planting Beds  
8 No Scale



**8** Typical Plan: Tree Staking/Support  
8 No Scale

LANDSCAPE DETAILS 1  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

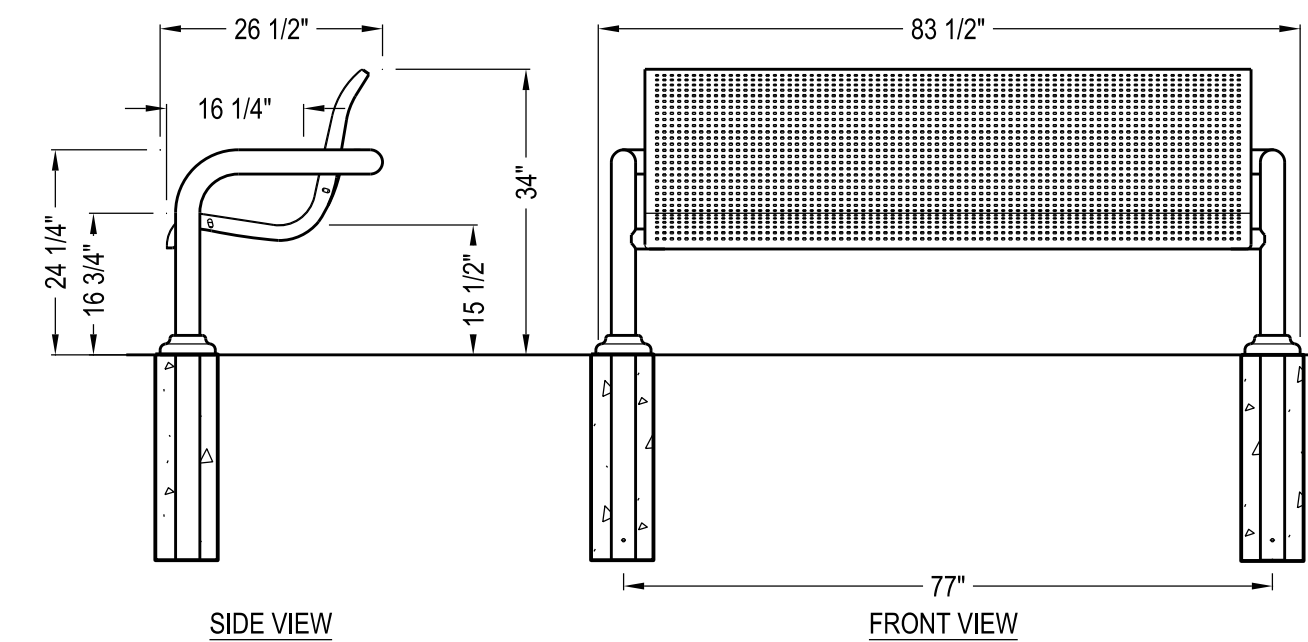
REVISIONS:

NO.	DESCRIPTION	DATE



Material and Color:  
BENCH SURFACE PATTERN: SQUARE PERFORATION  
BENCH COLOR: HUNTER GREEN  
COLOR BENCH LEG: TEXTURED BLACK

WABASH VALLEY  
505 EAST MAIN ST  
SILVER LAKE, IN 46982  
TOLL FREE: 1-800-253-8619  
PHONE: (260) 352-2102



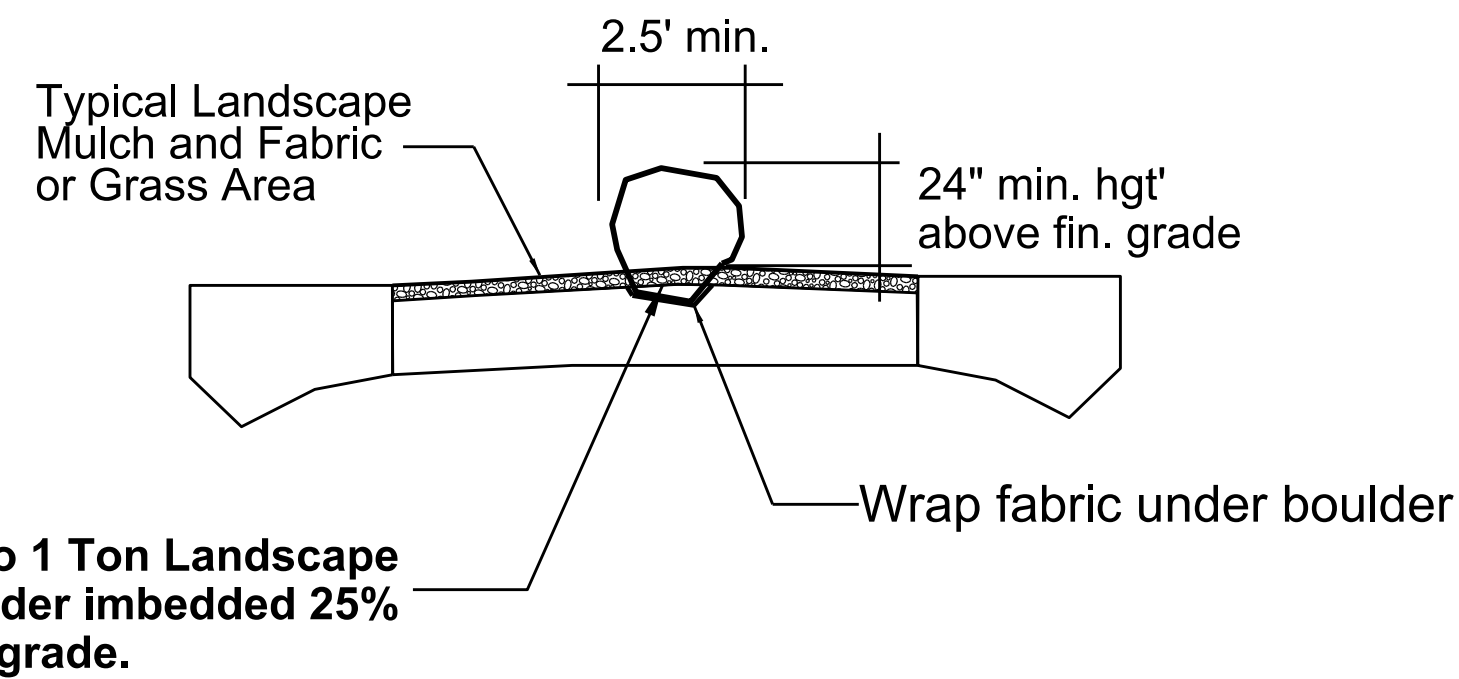
- NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. DO NOT SCALE DRAWING.  
3. PROVIDE ITEM AS SHOWN OR APPROVED EQUAL.

**1** URBANSCAPE POWDER COATED BENCH (WITH BACK)  
**9** CAMDEN 6' BENCH WITH BACK - INGROUND



Note: Replicate Kiosk located at Wild Goose Landing at a future Date 12" concrete sonotube column bases shall be min. 36" deep from top of grade.

**4** SCHEMATIC TYPICAL DETAIL: INFORMATION KIOSK  
**9**



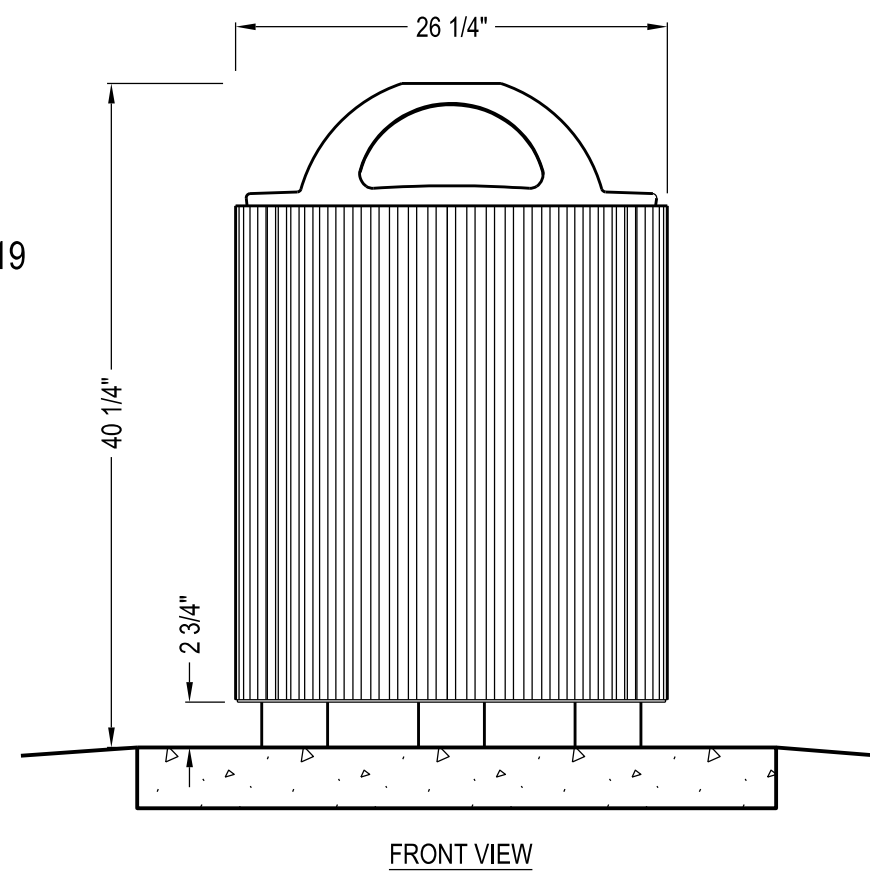
1/2 to 1 Ton Landscape Boulder imbedded 25% into grade.

**7** TYPICAL SECTION: LANDSCAPE BOULDER  
**9** Note: See Sheet 5 for boulder locations.

WABASH VALLEY  
505 EAST MAIN ST  
SILVER LAKE, IN 46982  
TOLL FREE: 1-800-253-8619  
PHONE: (260) 352-2102

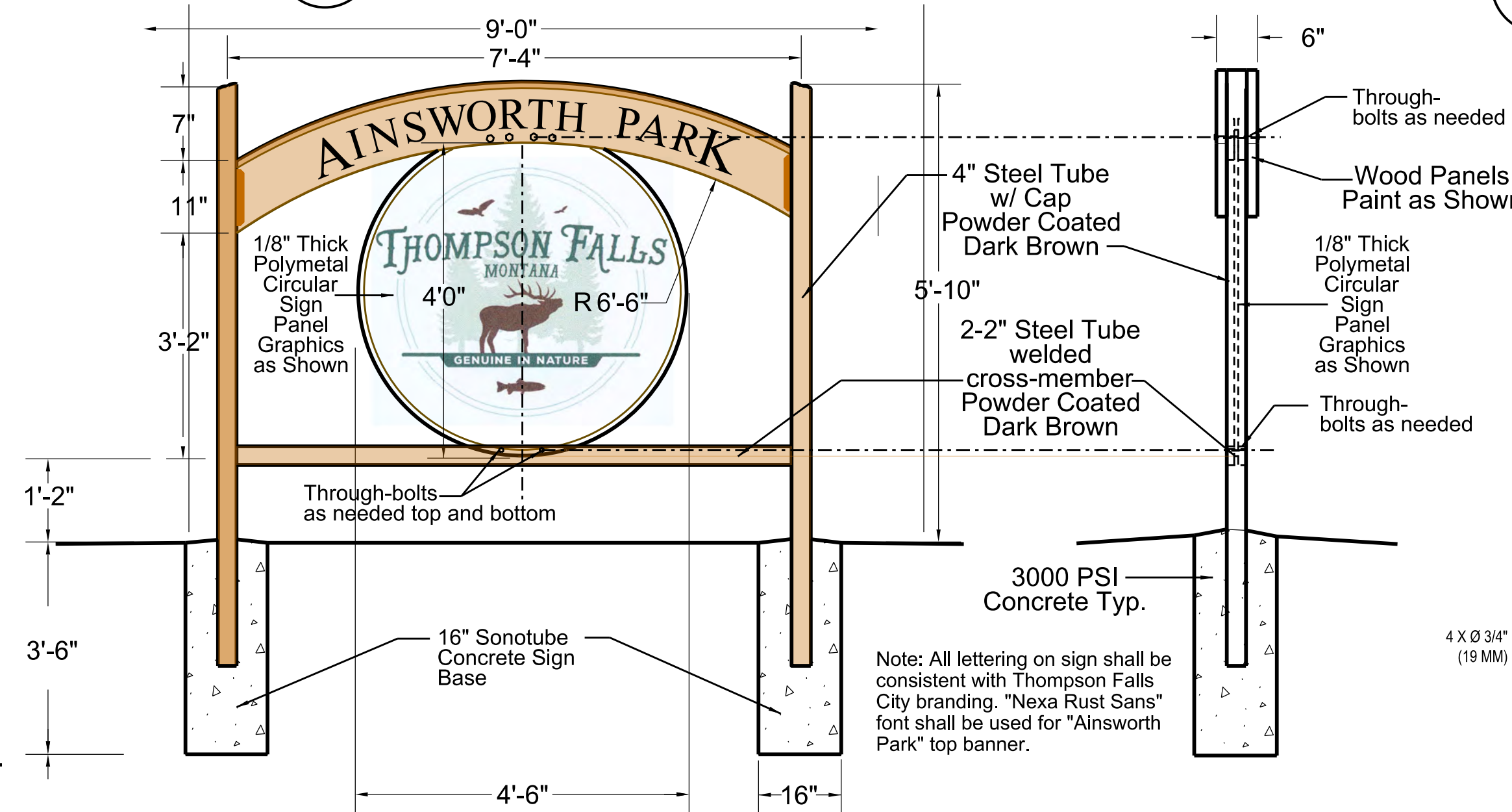
OR APPROVED EQUAL

Material and Color:  
SURFACE PATTERN: SQUARE PERFORATION  
RECEPTACLE COLOR: HUNTER GREEN  
LID COLOR: TEXTURED BLACK  
LID STYLE: DOME  
RECEPTACLE MOUNTING: SURFACE



- NOTES:  
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2. DO NOT SCALE DRAWING.  
3. PROVIDE ITEM AS SHOWN OR APPROVED EQUAL.

**2** URBANSCAPE POWDER COATED RECEPTACLE/ASH URNS  
**9** TRASH RECEPTACLE - SURFACE MOUNT



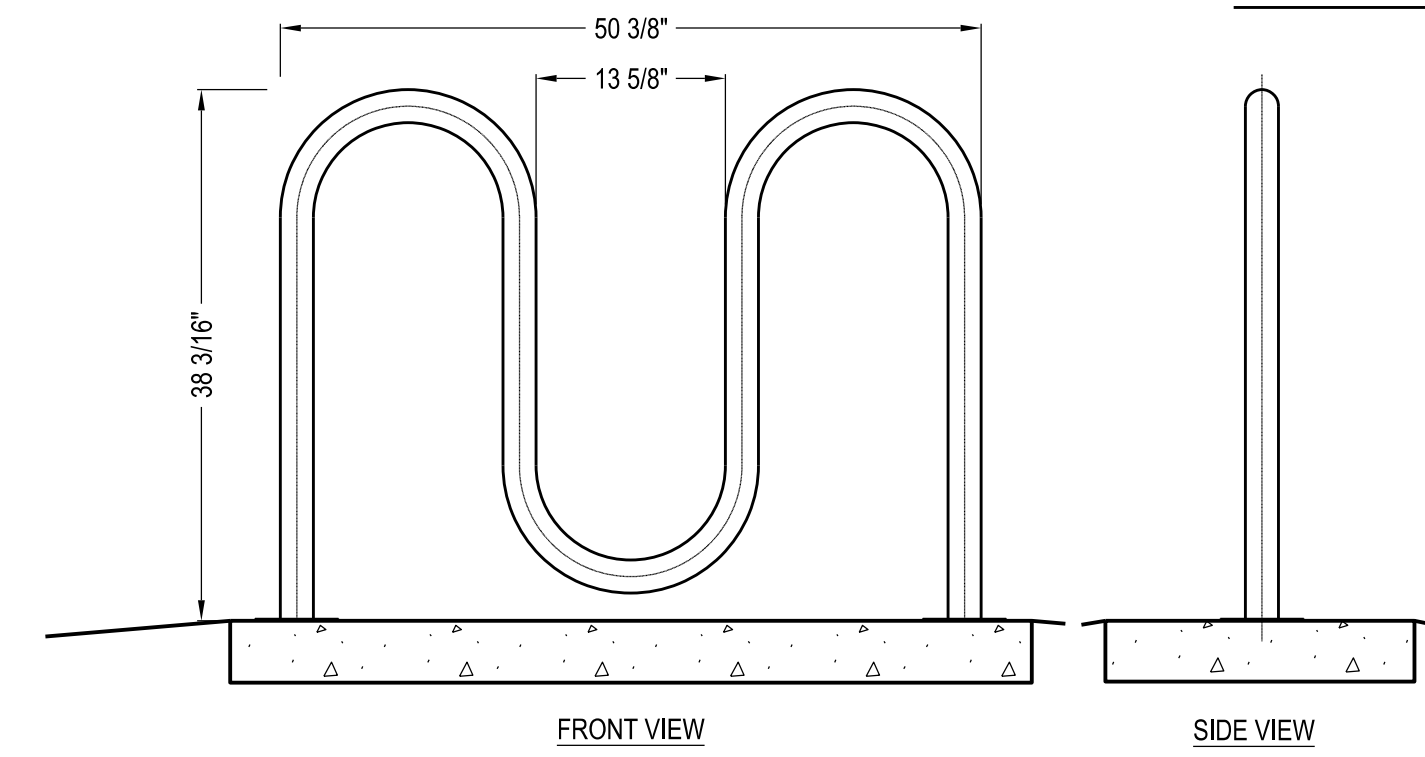
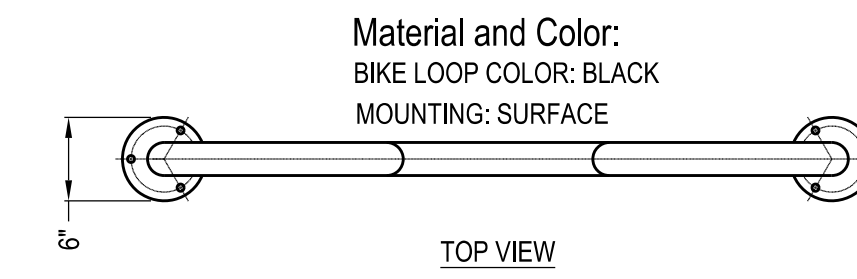
**5** TYPICAL ELEVATION-SECTION: PARK ENTRY SIGN  
**9**



**8** TYPICAL DETAIL: BIKE FIX-IT STATION  
**9**

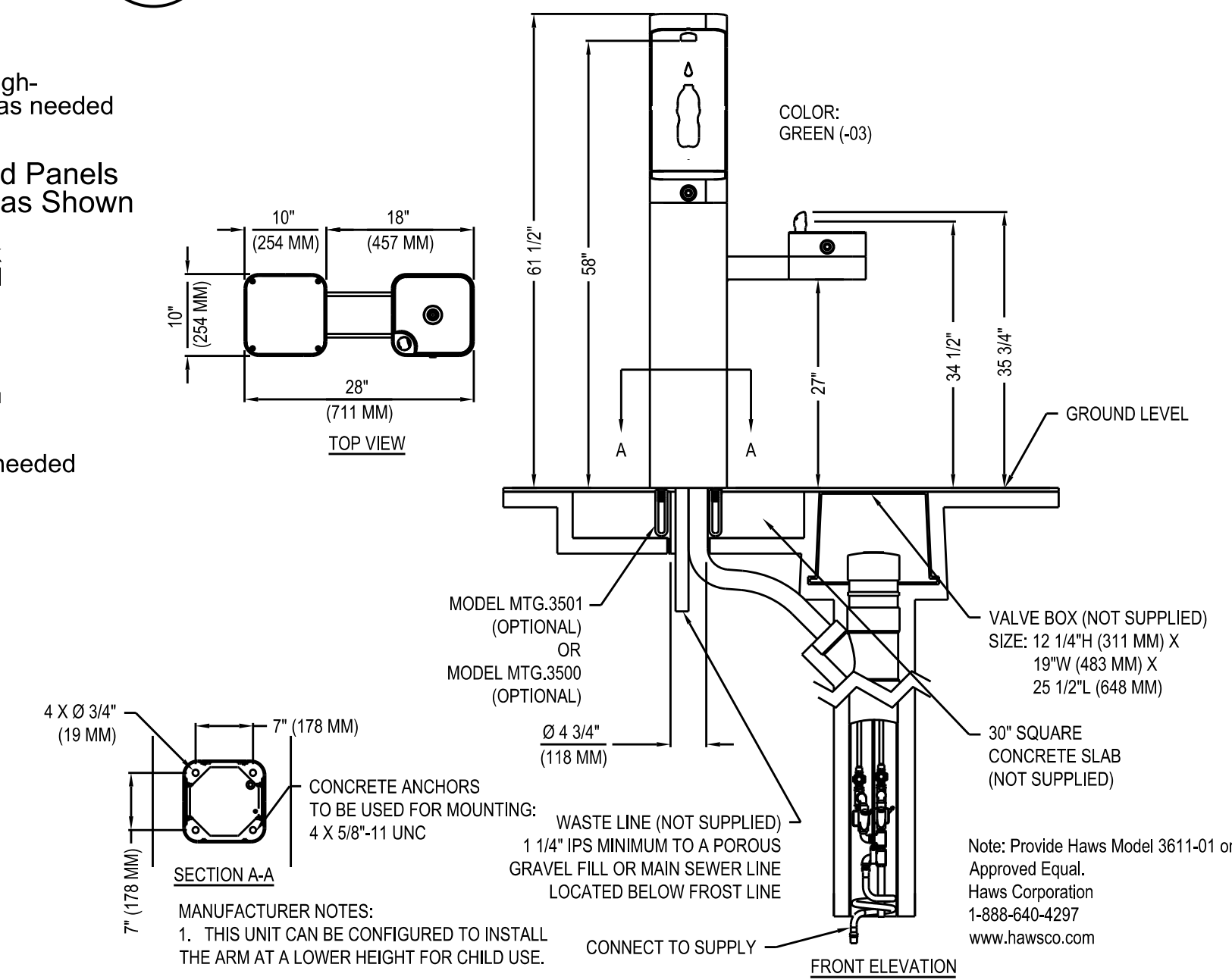


**9** TYPICAL DETAIL: DOG WASTE STATION  
**9**

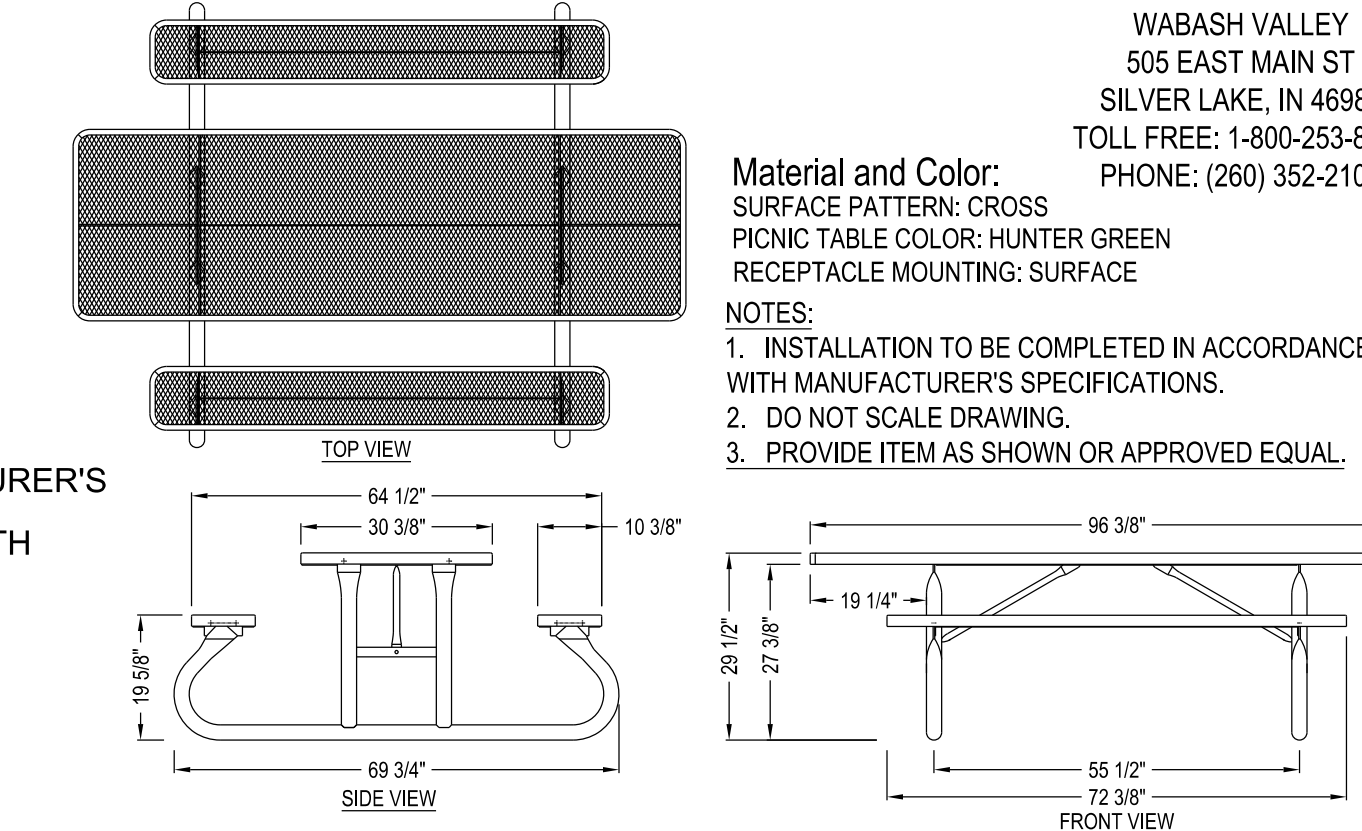


- NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. DO NOT SCALE DRAWING.  
3. PROVIDE ITEM AS SHOWN OR APPROVED EQUAL.

**3** URBANSCAPE POWDER COATED BIKE LOOPS/RACKS  
**9** BIKE RACK - SERPENTINE - SURFACE MOUNT



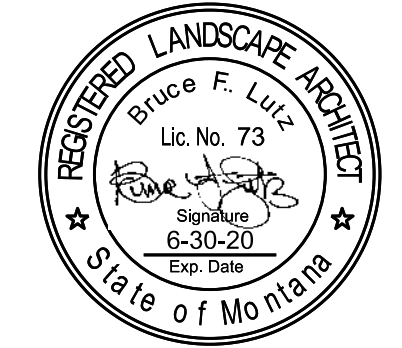
**6** TYPICAL DETAIL: DRINKING FOUNTAIN & BOTTLE FILL  
**9**



**10** TYPICAL DETAIL: PICNIC TABLE  
**9** WABASH PLASTISOL COATED TABLE  
SIGNATURE 8 ADA PICNIC TABLE - PORTABLE

WABASH VALLEY  
505 EAST MAIN ST  
SILVER LAKE, IN 46982  
TOLL FREE: 1-800-253-8619  
PHONE: (260) 352-2102

OR APPROVED EQUAL



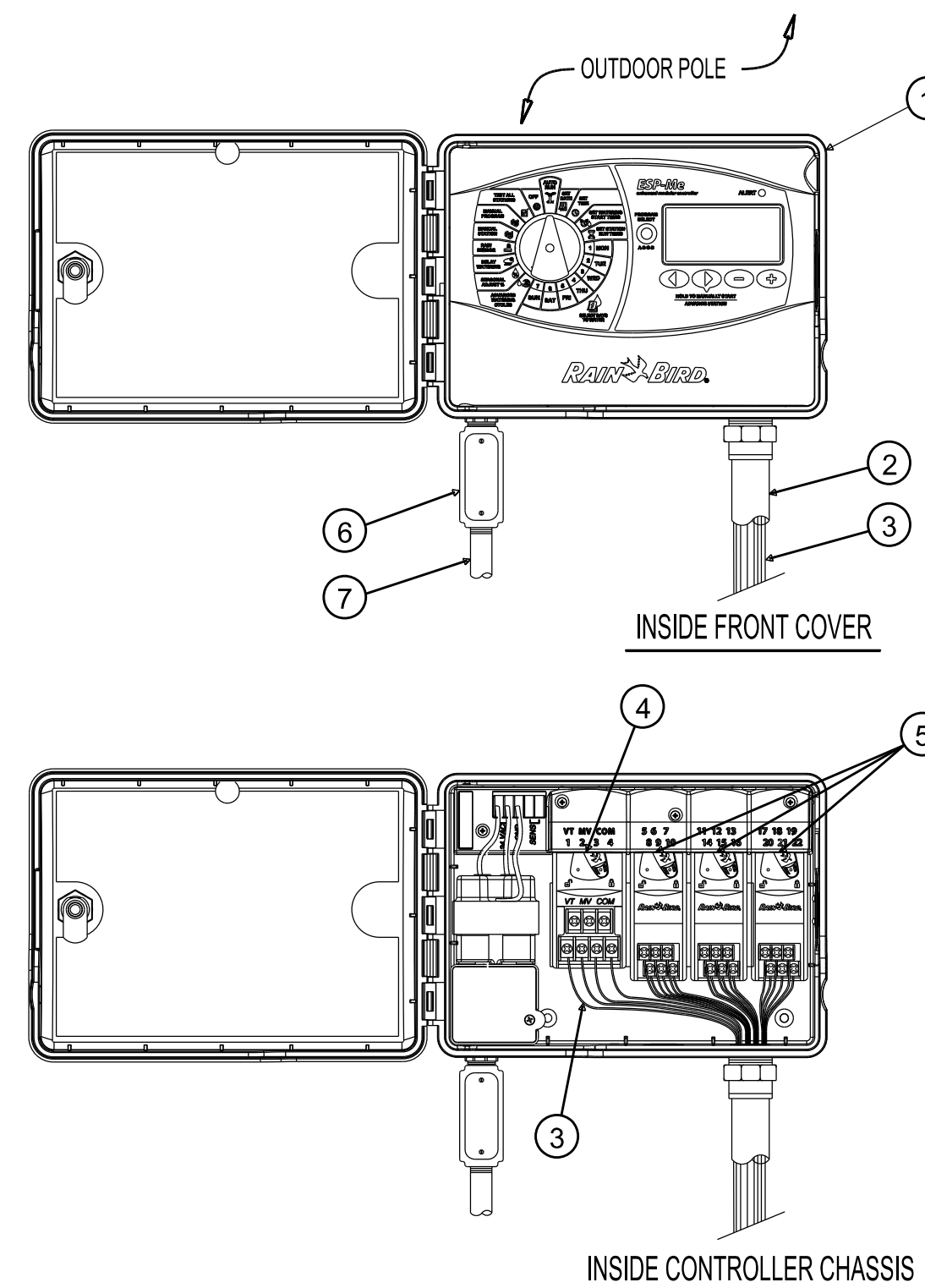
LANDSCAPE DETAILS 2  
AINS WORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: BFL  
DRAFT: BFL  
APPROVE: -  
DATE: -

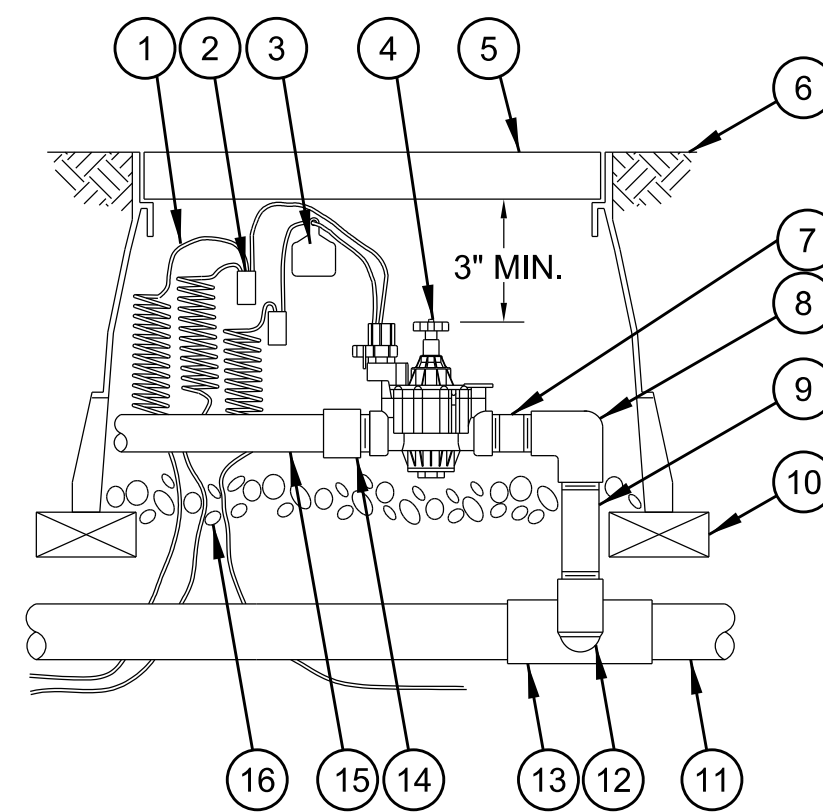
SEPT 6, 2019



**GENERAL NOTES:**

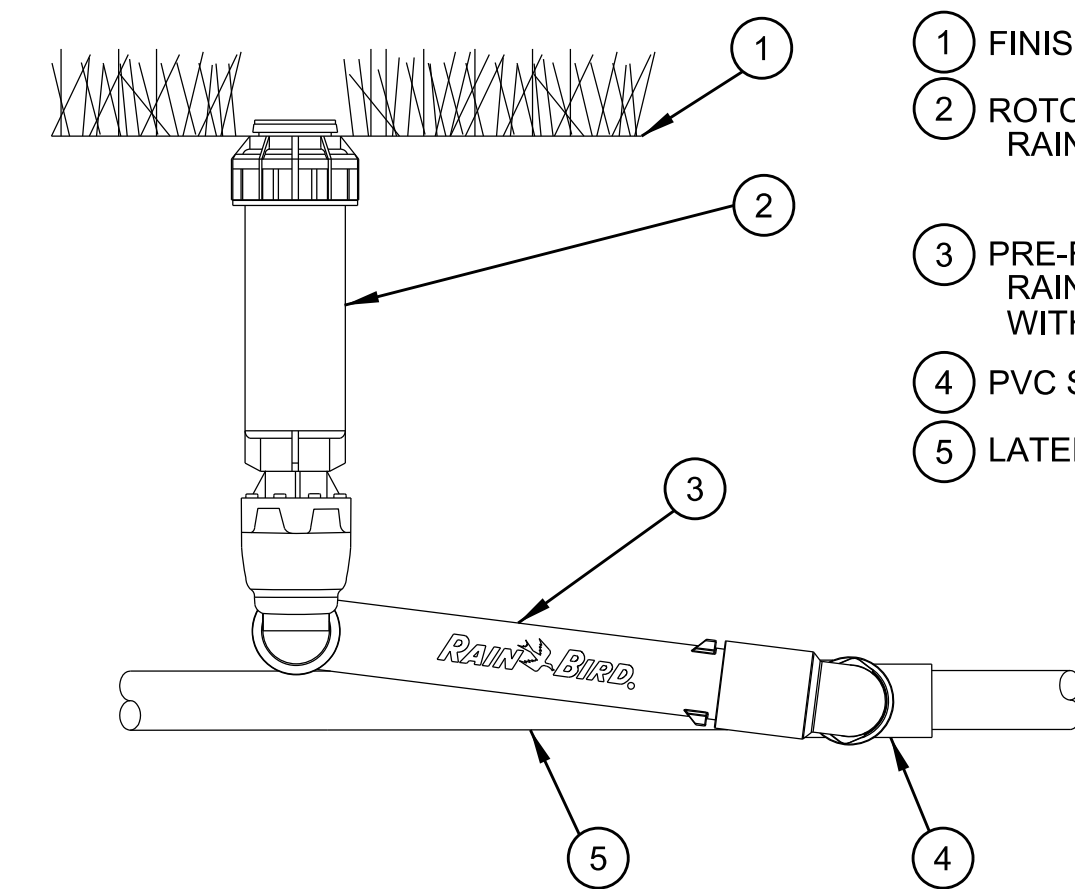
- 1 MODULAR HYBRID CONTROLLER: RAIN BIRD ESP4ME OUTSIDE WALL MOUNT
- 2 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
- 3 WIRES TO REMOTE CONTROL VALVES
- 4 STANDARD MODULE FOR 4-STATION CONTROLLER
- 5 OPTIONAL MODULES FOR 22-STATION CONTROLLER
- 6 JUNCTION BOX
- 7 1/2-INCH PVC SCH 40 CONDUIT TO POWER SUPPLY

1 Existing ESP-M Modular Hybrid Controller  
10 OUTDOOR MODEL No Scale



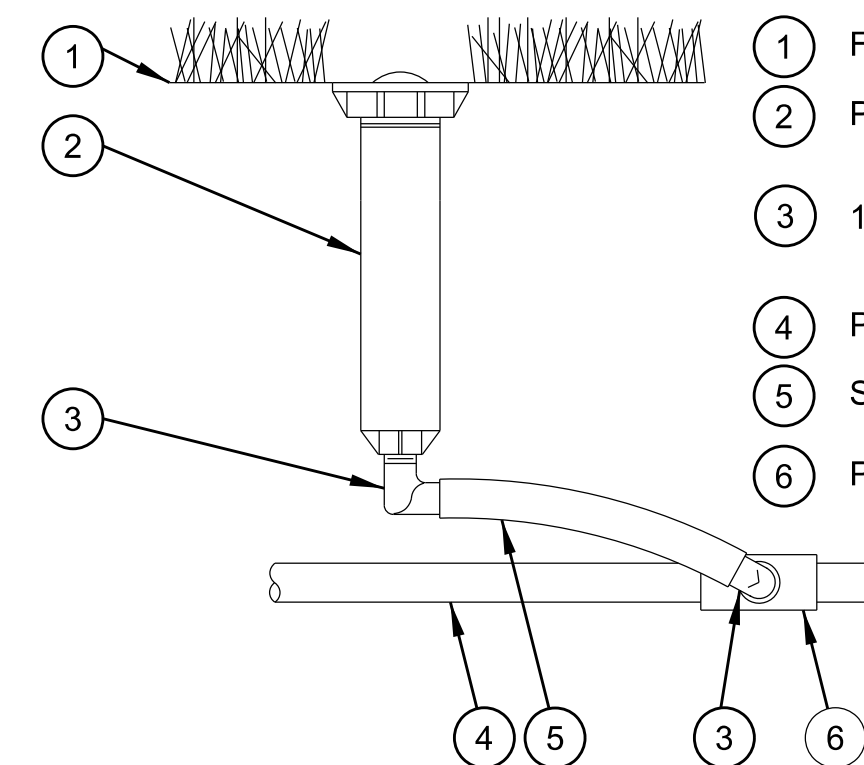
- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
- 3 ID TAG: RAIN BIRD VID SERIES
- 4 REMOTE CONTROL VALVE: RAIN BIRD PGA
- 5 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 6 FINISH GRADE/TOP OF MULCH
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

2 ELECTRIC REMOTE-CONTROL VALVE  
10 PGA SERIES No Scale



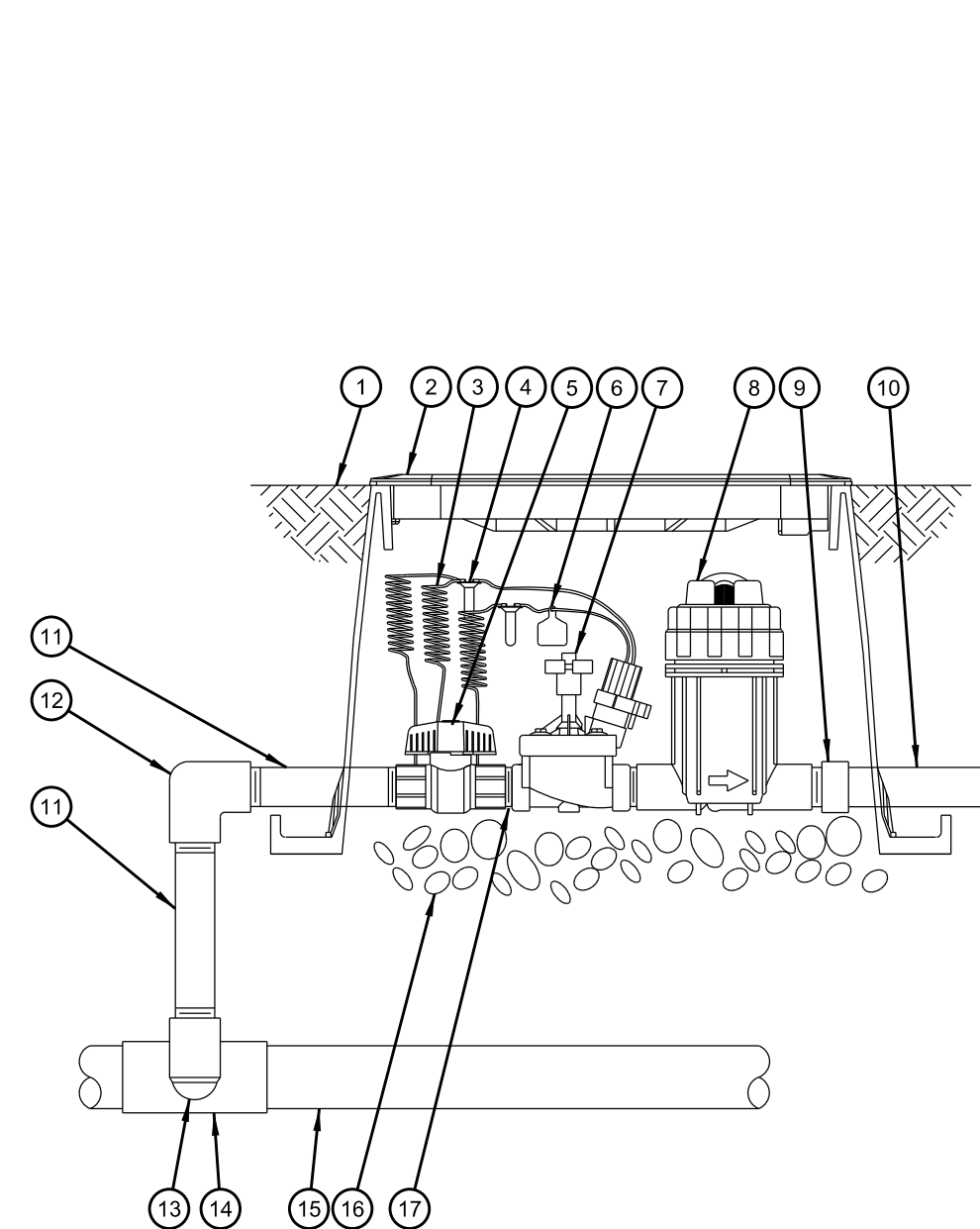
- 1 FINISH GRADE
- 2 ROTOR POP-UP SPRINKLER: RAIN BIRD 5004
- 3 PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-075-PRS WITH 45 PSI PRESSURE REGULATOR
- 4 PVC SCH 40 TEE OR ELL
- 5 LATERAL PIPE

5004 ROTOR POP-UP SPRINKLER



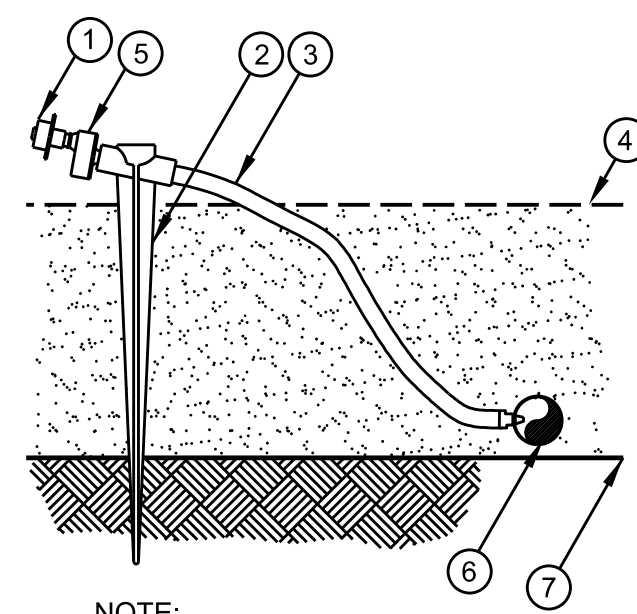
- 1 FINISH GRADE/TOP OF MULCH
- 2 POP-UP SPRAY SPRINKLER: RAIN BIRD 1804 WITH RAIN BIRD ROTARY NOZZLE
- 3 1/2-INCH MALE NPT x .490 INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
- 4 PVC LATERAL PIPE
- 5 SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
- 6 PVC SCH 40 TEE OR ELL

6 1804 POP-UP SPRAY SPRINKLER WITH ROTARY NOZZLE No Scale



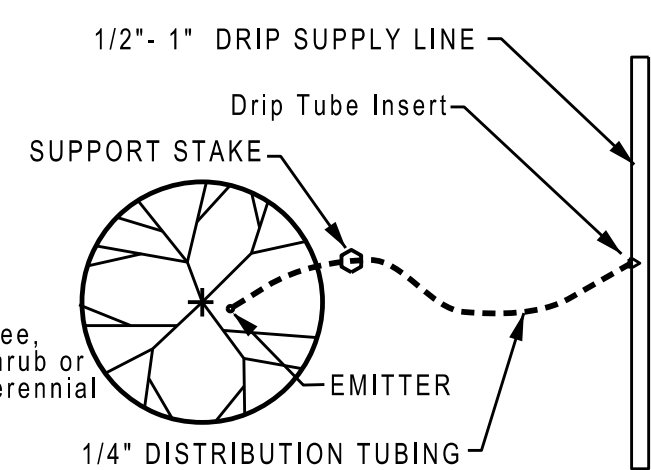
- 1 FINISH GRADE/TOP OF MULCH
- 2 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 3 30-INCH LINEAR LENGTH OF WIRE, COILED
- 4 WATERPROOF CONNECTION: RAIN BIRD DB SERIES
- 5 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
- 6 ID TAG
- 7 REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUDED IN XCZ-PRB-100-COM KIT)
- 8 PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
- 9 PVC SCH 40 FEMALE ADAPTOR
- 10 LATERAL PIPE
- 11 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 12 PVC SCH 40 ELL
- 13 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- 14 PVC SCH 40 TEE OR ELL
- 15 MAINLINE PIPE
- 16 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 17 PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

4 Drip Zone  
1" COMMERCIAL CONTROL ZONE KIT WITH BASKET FILTER  
10 XCZ-100-PRB-COM No Scale

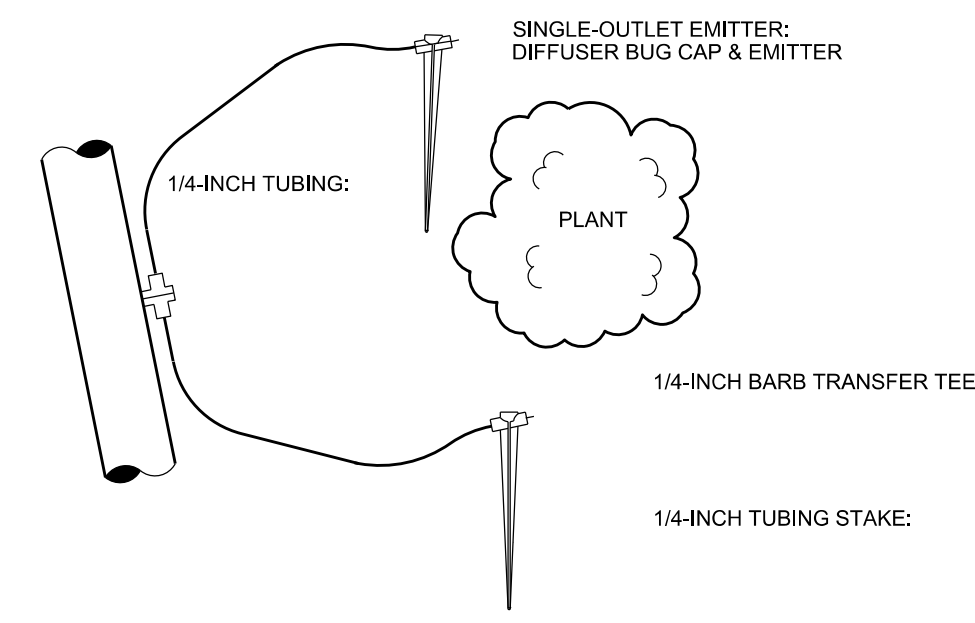


- 1 DIFFUSER BUG CAP & EMITTER
- 2 TUBING STAKE
- 3 1/4" PE DRIP TUBING
- 4 TOP OF MULCH
- 5 SINGLE-OUTLET EMITTER
- 6 1/2" PE PIPE DRIP TUBING TYPICAL
- 7 FINISH GRADE

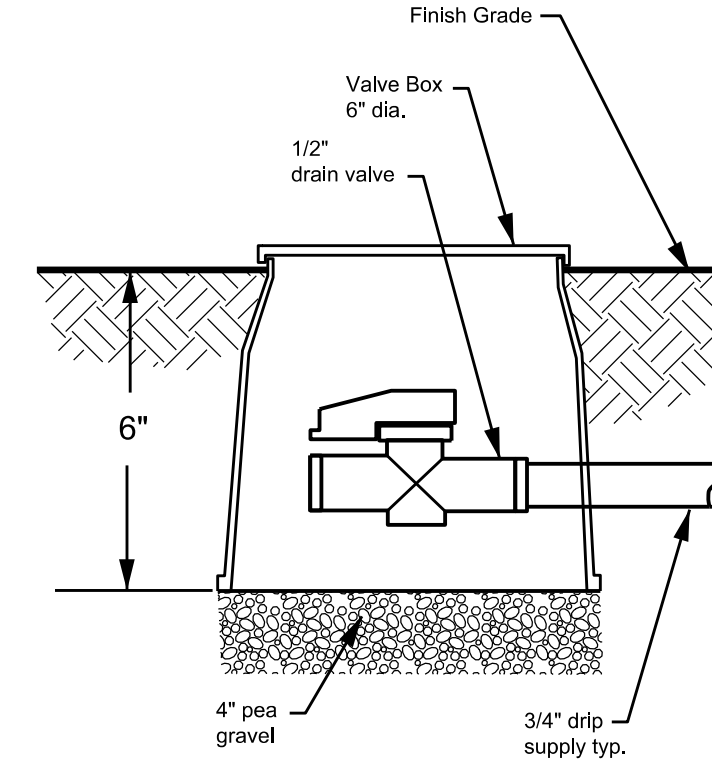
5 Single Drip Emitter Detail No Scale



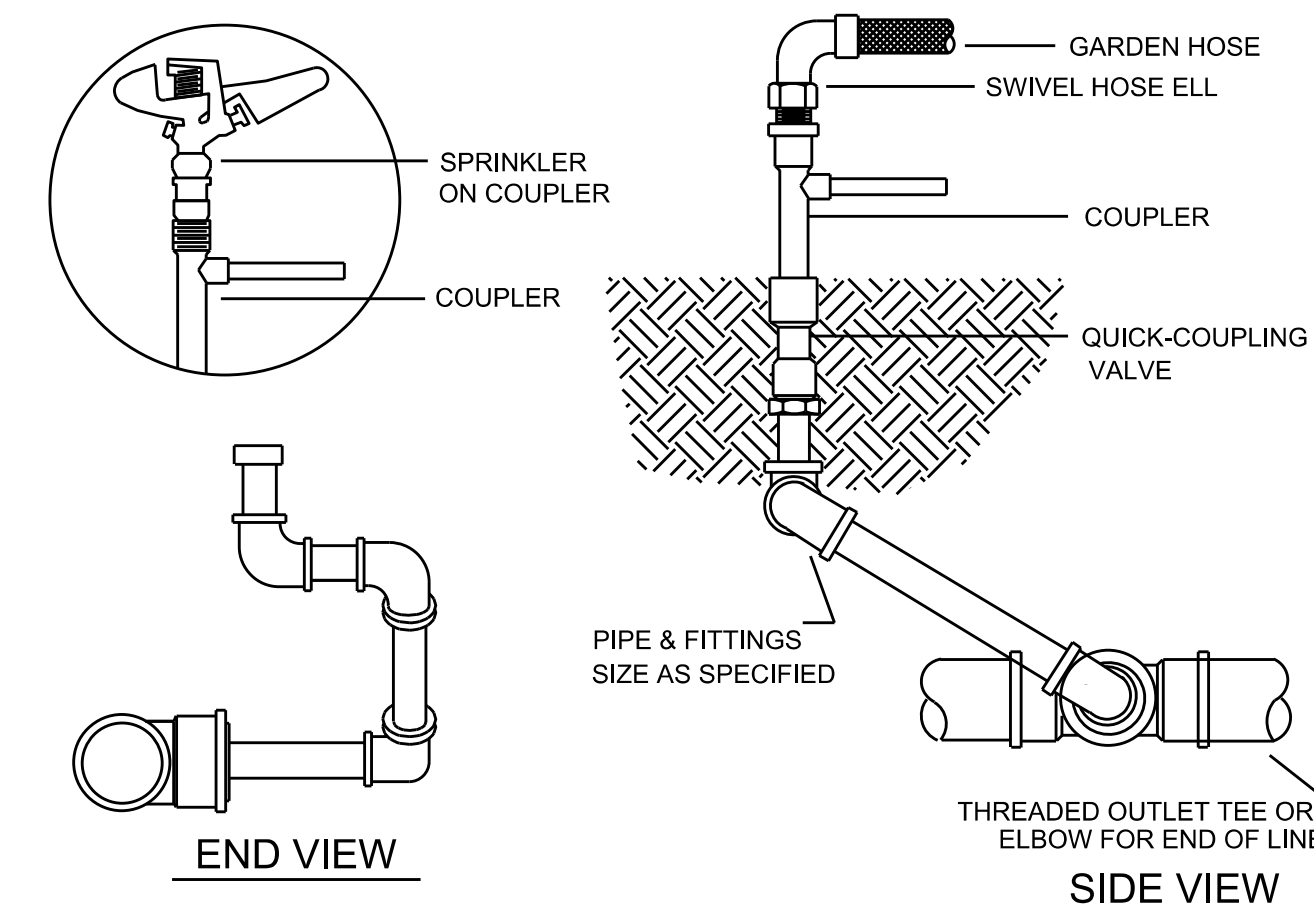
6 Typical Drip Emitter Plan No Scale



7 EMITTERS AROUND PLANT ON 1/4 INCH TUBING SCALE: NOT TO SCALE



8 Drip Drain Valve Detail No Scale



9 TYPICAL QUICK-COUPLING VALVE No Scale



SITE CONSTRUCTION DETAILS 2  
 AINSWORTH PARK MASTER PLAN  
 THOMPSON FALLS, MONTANA

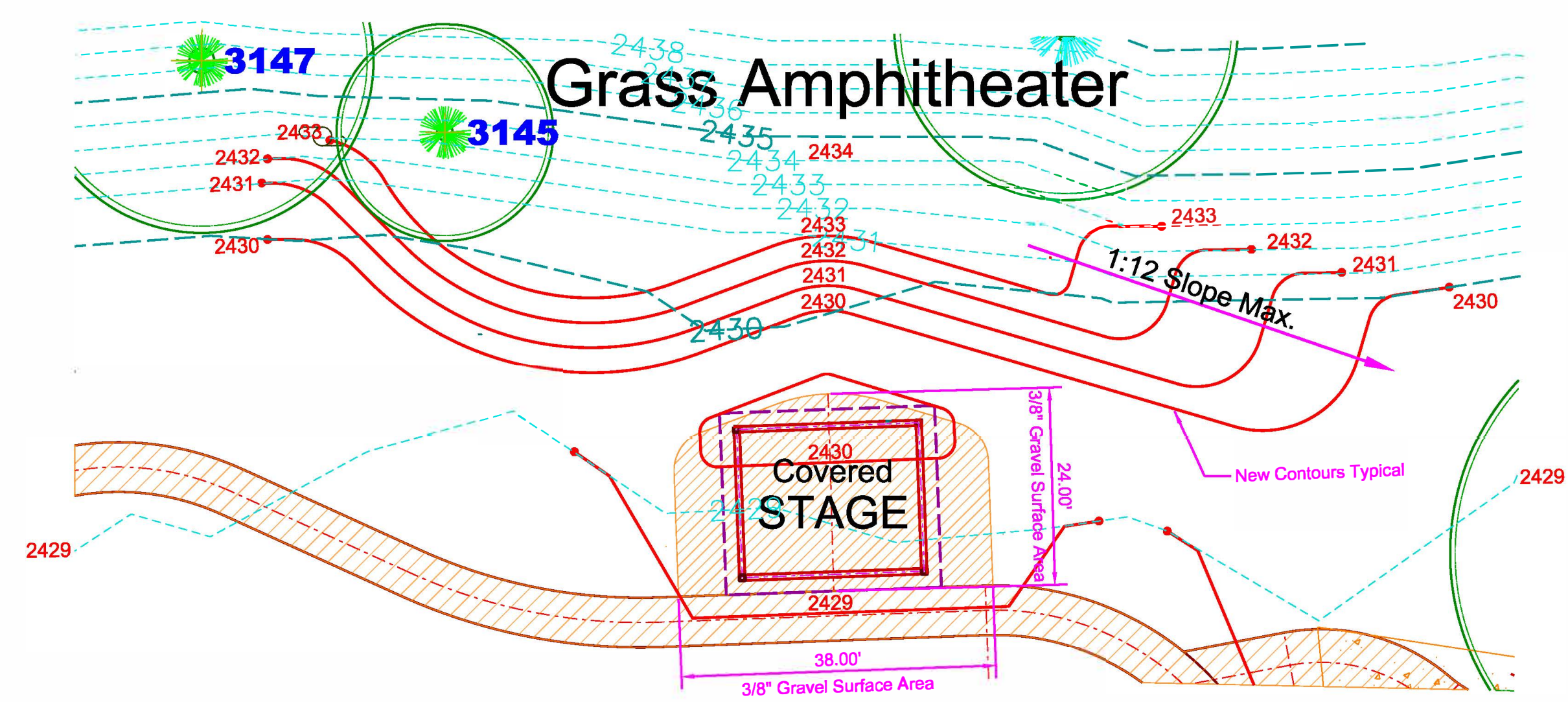
REVISIONS:

NO.	DESCRIPTION	DATE

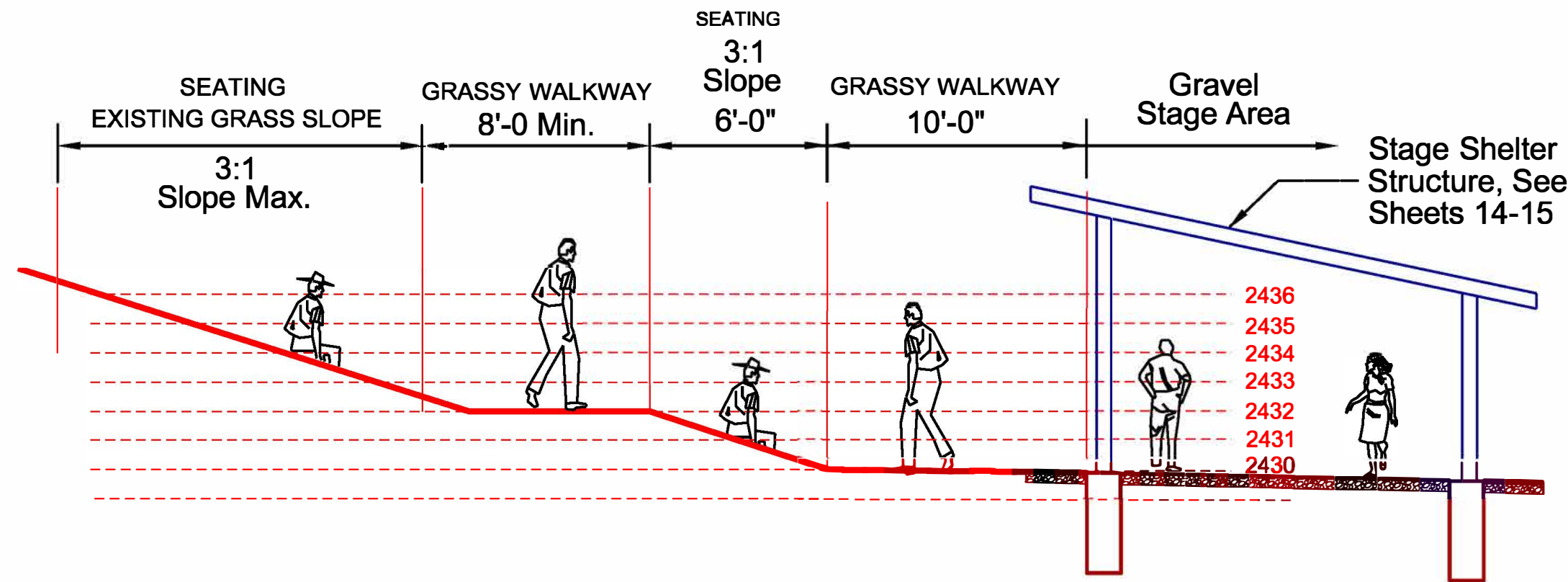
PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: BFL  
 DRAFT: BFL  
 APPROVE: -  
 DATE: -

SEPT 3, 2019  
 SHEET 10 OF 21

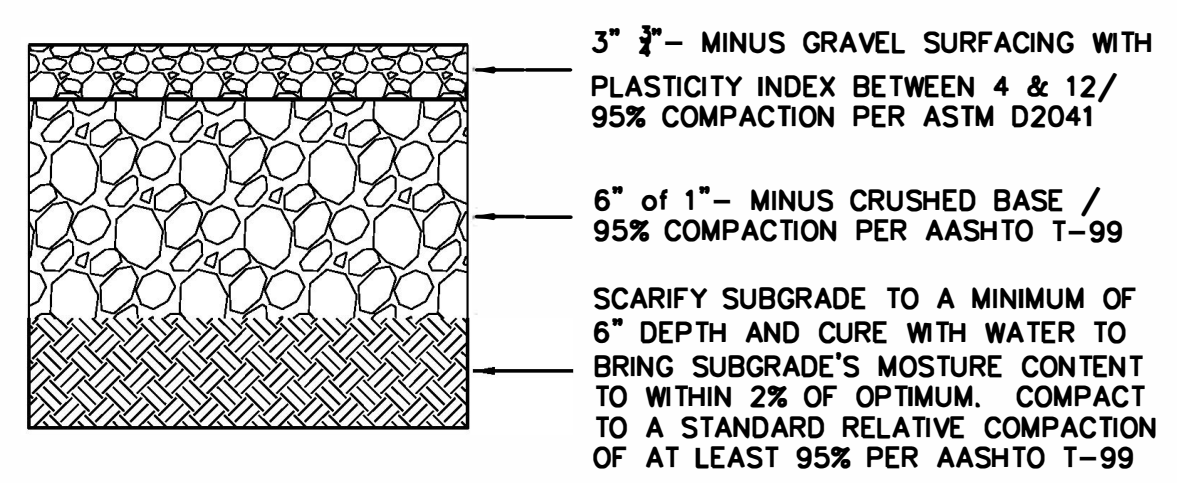
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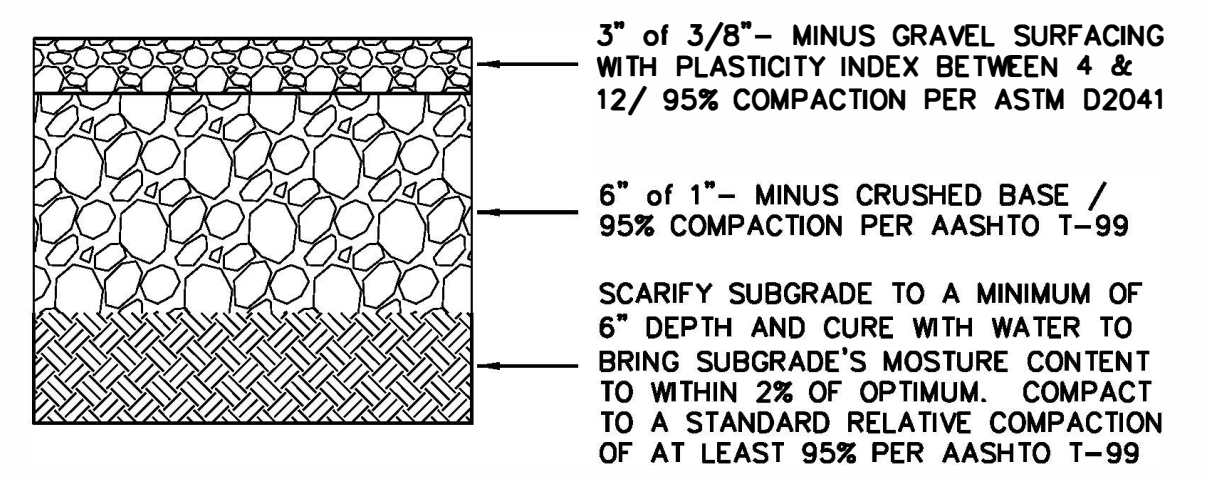
1  
11 Typical Plan: Grassy Seating Slope  
No Scale



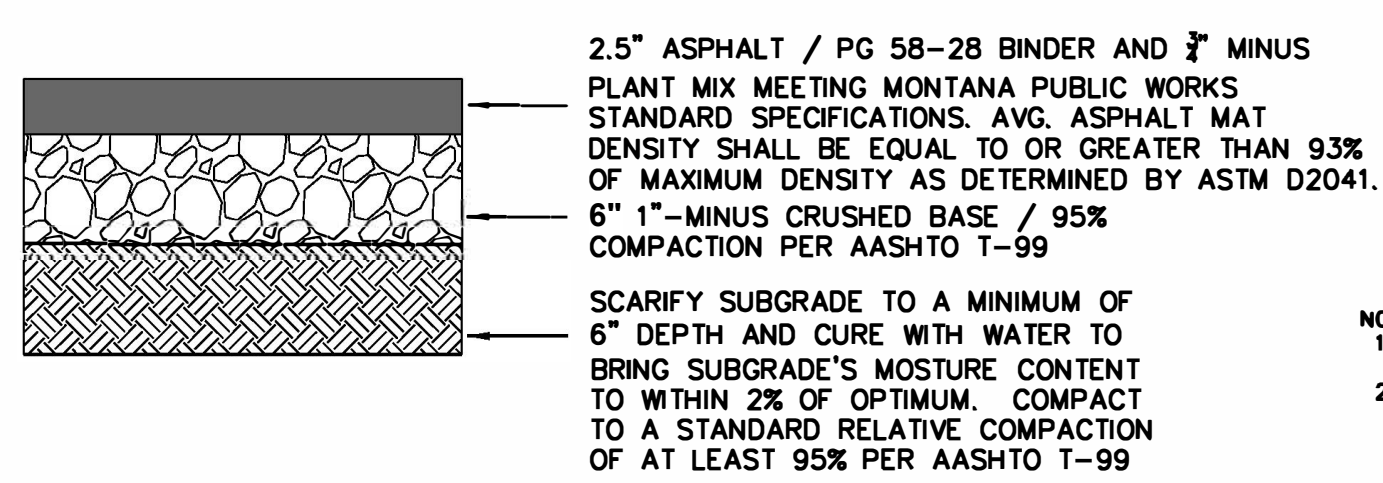
2  
11 Typical Section: Grassy Seating Slope  
No Scale



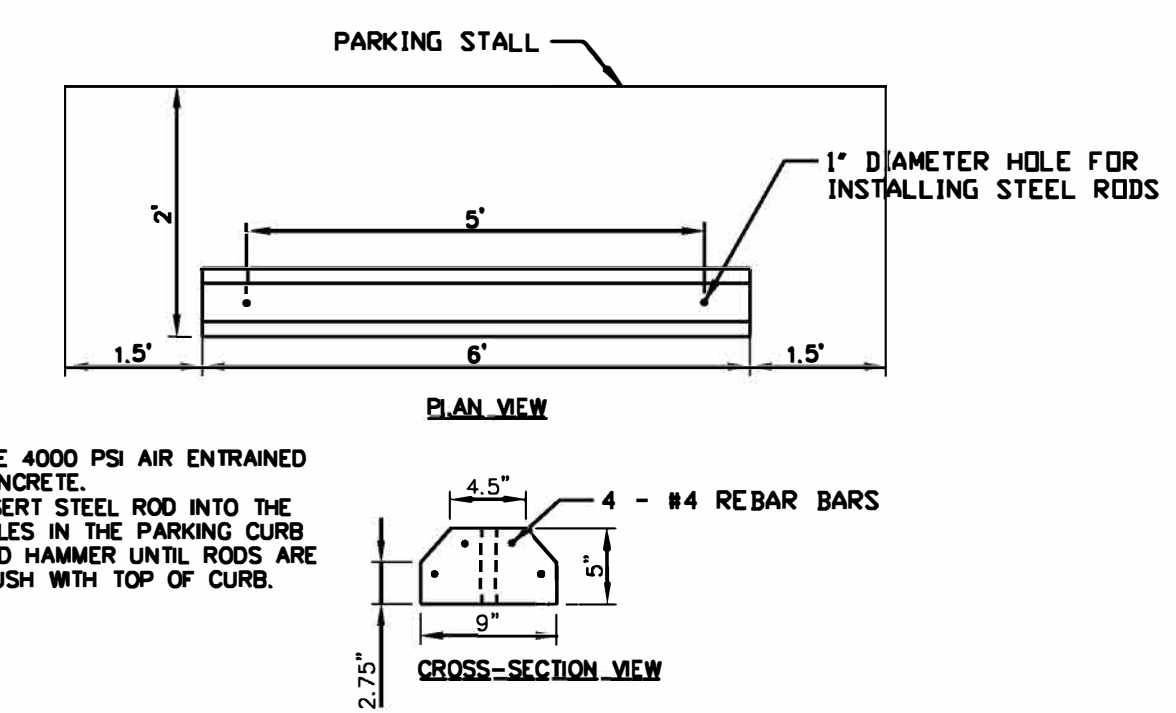
3  
11 Typical Section: 3/4" Gravel Parking  
No Scale



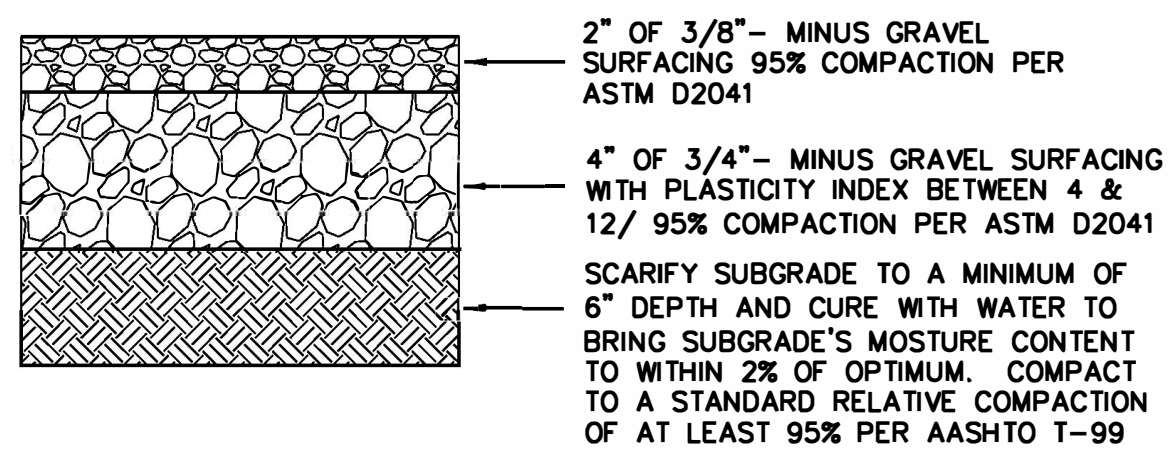
4  
11 Typical Section: 3/8" Gravel Parking  
No Scale



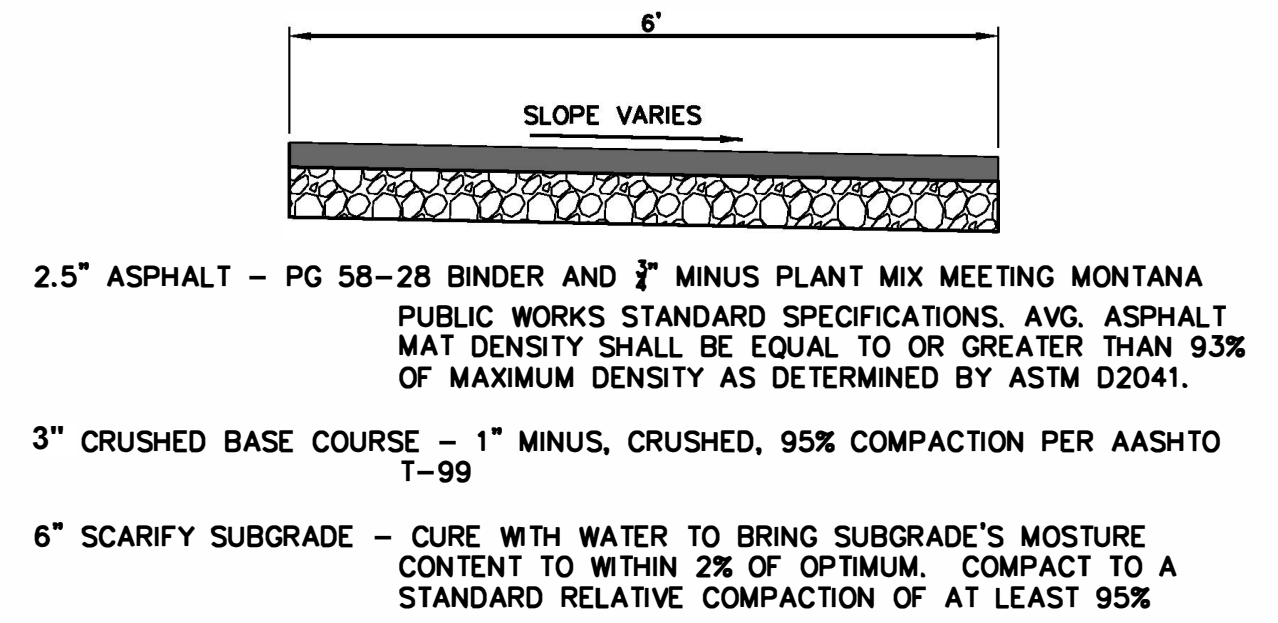
Add Alternate Section: Asphalt Parking  
No Scale



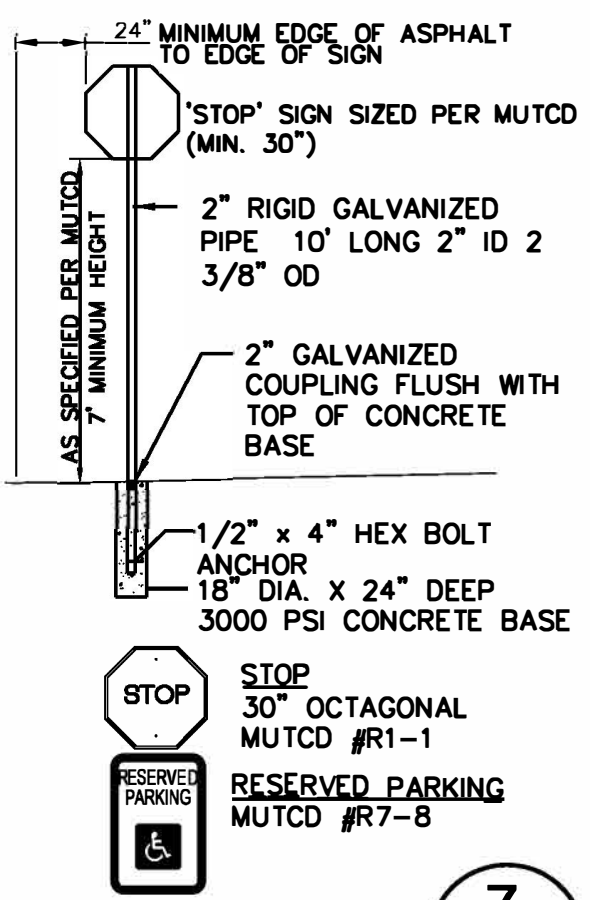
5  
11 Typical Detail: Concrete Wheel Stop  
No Scale



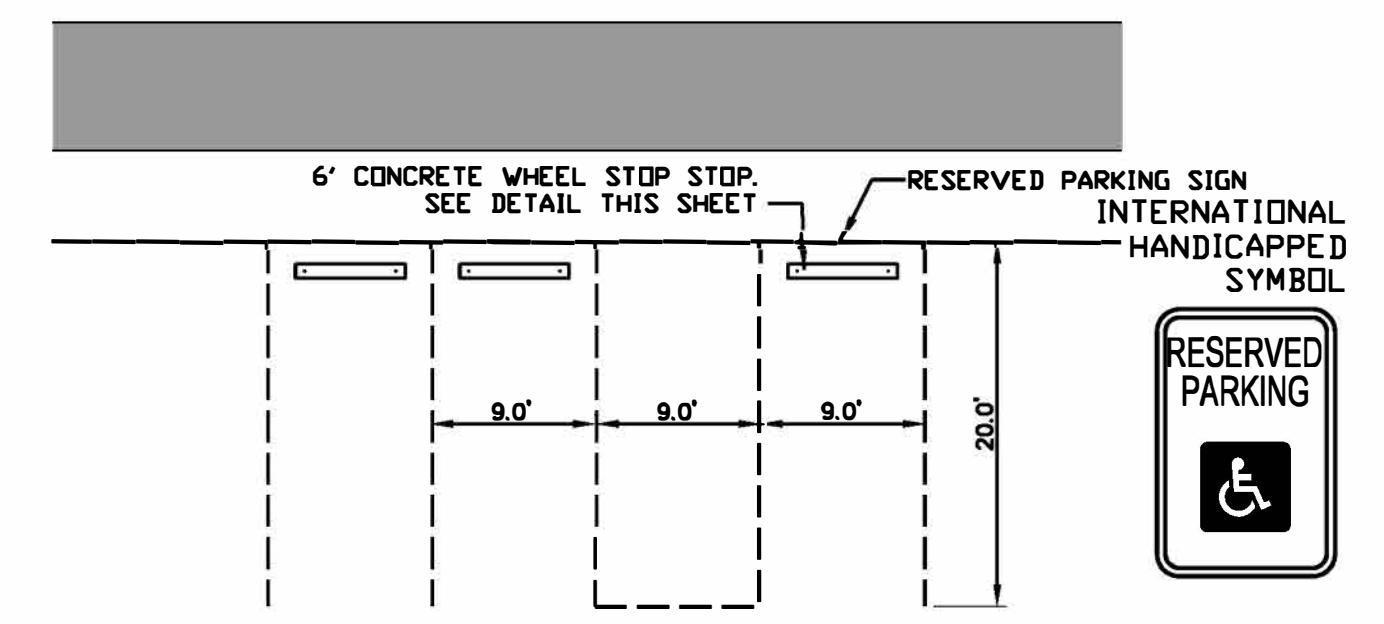
6  
11 Typical Section: 3/8" Gravel Path and Surfacing  
No Scale



Add Alternate Section: Asphalt Path  
No Scale



7  
11 Typical Detail: Street Signs  
No Scale



8  
11 Typical Plan: Reserved Parking Stall  
No Scale

IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST EDITION OF STANDARDS FOR DESIGN AND CONSTRUCTION FOR THE CITY OF THOMPSON FALLS, MONTANA AND THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS. THE CONSTRUCTION PLANS ARE INTENDED TO BE IN CONJUNCTION WITH THE ABOVE STANDARDS.

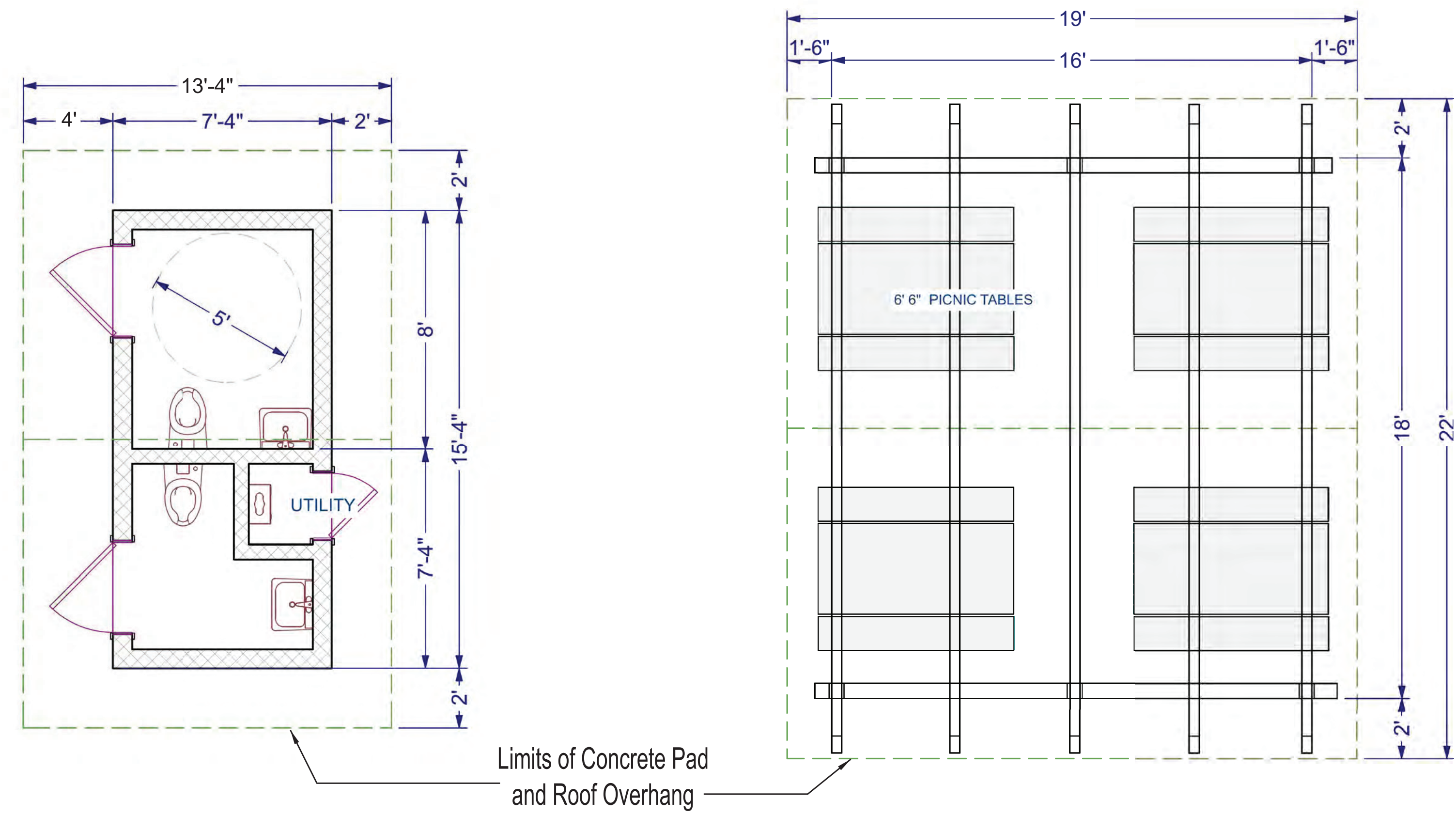
SITE CONSTRUCTION DETAILS  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: BFL  
DRAFT: BFL  
APPROVE: -  
DATE: -

SEPT 6, 2019



Typical Restroom Floor Plan

Typical Pavilion Floor Plan

**Notes**

**BATHROOM:**  
Exterior walls to be decorative concrete block, coated inside and out with waterproof and scrubable finish. Sinks and commodes to be commercial grade wall hung stainless units. Sinks to be Regency 17x15 or equivalent. Doors to be commercial grade insulated steel units with durable paint finish. Door hardware to be commercial grade Indicator Lever Lock 26D Satin Chrome C3FS or equivalent on the two bathroom doors. **A metal roof is required. City shall approve all colors. Concrete slab shall be standard gray color with broom finish (not stamped or colored).**

Floor to be poured concrete, including apron in front as shown. Utility room to contain water supply entry with shutoff valve. also electric demand type water heater Bosch Tronic 3000 T4 or equivalent. Includes stop and waste type underground water shutoff valve. Roof framing to be conventional wood trusses with applied plank truss on front gable as shown. This design would require draining water system for weather below about 25 degrees. **Refer to the electrical plans for additional requirements.**

**PAVILION:**  
8X8 columns support 6x12 beams. All wood except roof boards to be rough sawn and stained, including roof trusses and curved braces as shown. Roof boards to be 2x8 pine T&G, unfinished. Slab floor is 4" concrete with 12" diameter x 36" deep sonotube bases at column locations. **A metal roof is required. The City shall approve all colors. Concrete slab shall be standard gray color with broom finish (not stamped or colored).**

**GENERAL:**  
The drawings on this sheet were provided by Doug Ferrell of MOUNTAIN HOMES DESIGN BUILD (406-827-4341, ferrelldoug@gmail.com). The proposed restroom and pavilion shall be submitted as a supplier-designed package stamped by a registered MT structural engineer prior to construction and to be reviewed and approved by the City of Thompson Falls. The structure shall be built in conformance with the latest addition of the Uniform Building Code. Refer to electrical sheets within this plan set for required electrical components.



Illustration: Restroom Perspective



Note: Picnic tables shown for illustrative purposes only.

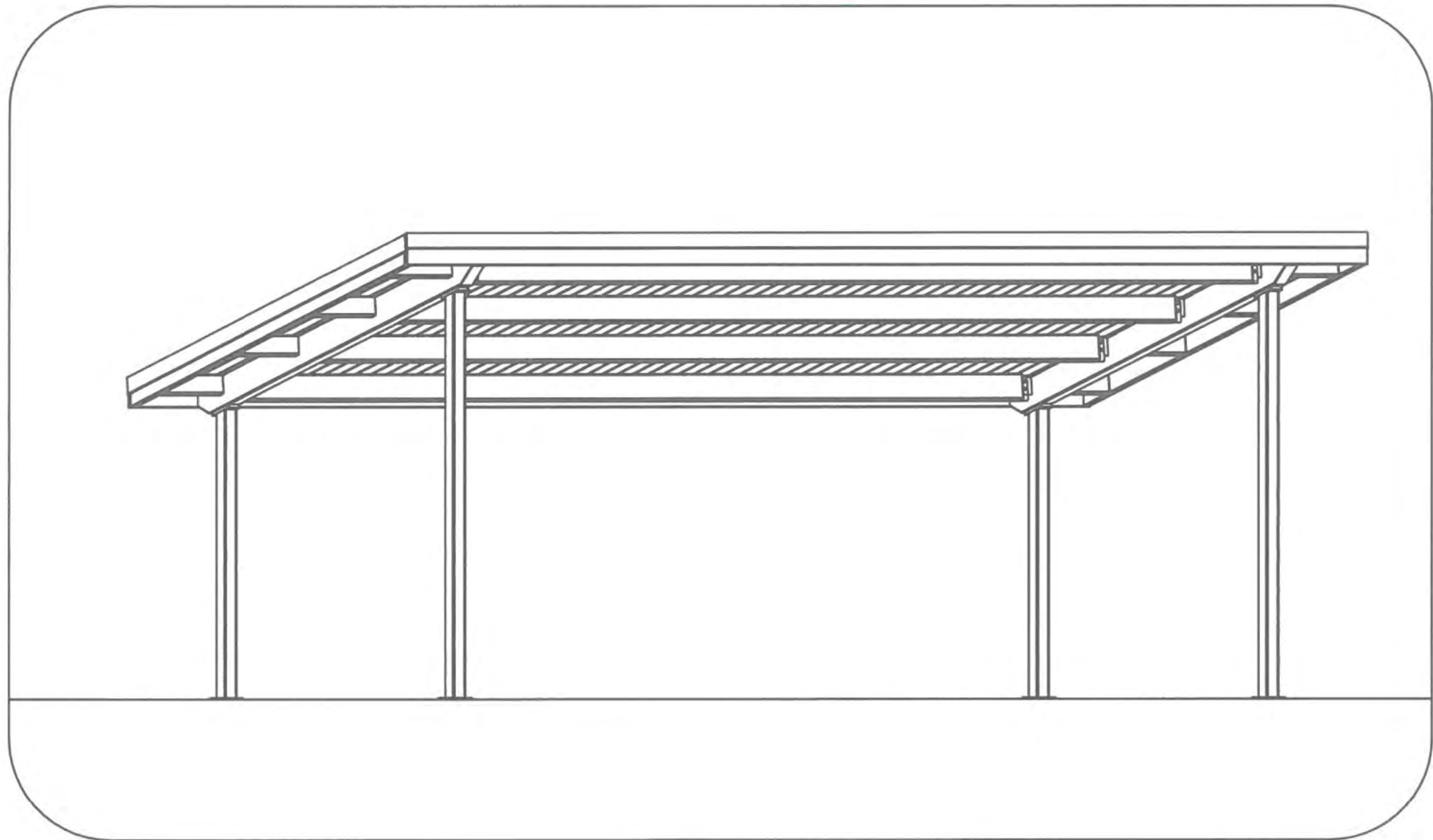
Illustration: Pavilion Perspective

**RESTROOM AND PAVILION**  
**AINSWORTH PARK MASTER PLAN**  
**THOMPSON FALLS, MONTANA**

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: CXT-LB FOSTER  
DRAFT: CXT-LB FOSTER  
APPROVE: -  
DATE: -

SEPT 6, 2019



MODEL: 98-RM 22026 2T-SPSB ROCKY MOUNTAIN SERIES SHELTER

WIDTH OF SHELTER: 22'  
 LENGTH OF SHELTER: 26'  
 HEIGHT OF EAVE: 7' - 6"  
 OVERALL HEIGHT: 11' - 11-5/8"

ROOF TYPE: 18" STANDING SEAM  
 ROOF DECK: 2X6 NOM. FIR T&G  
 FASCIA: 6 X 2 X .120 STEEL TUBE  
 ROOF PITCH: 2/12

Note: Provide this product as shown or an approved equal

MINIMUM DESIGN CRITERIA:

- WIND LOAD 90 MPH
- SNOW LOAD 30 PSF
- BASIC SOIL BEARING 1500 PSF MIN.
- CONCRETE FOOTINGS: 2500 PSI MIN.

SHELTER SPECIFICATIONS:

- ROOF PITCH: 2/12
- ROOF STYLE: LEAN TO
- STEEL POSTS: 8 X 4 X 3/16 STEEL TUBE
- TRUSS BEAMS: 10 X 4 X 3/16 STEEL TUBE
- PURLINS: 8 X 4 X 3/16 STEEL TUBE
- FASCIA: 6 X 2 X .120 STEEL TUBE
- ROOF DECKING: 2 X 6 NOM. FIR T&G BOARD
- ROOFING: 24 GA 18" WIDE STANDING SEAM
- STEEL FINISH: POWDER COATED

POWDER COAT SPECIFICATIONS STANDARDS:

- FLEXIBILITY (ASTM D-1735)
- IMPACT (ASTM D-3359)
- ADHESION (ASTM D-3359)
- HARDNESS (ASTM D-3363)
- OVERBAKE RESISTANCE (ASTM D-2454)
- WEATHERABILITY (ASTM D-822)

SHELTER COLOR SELECTION:

- POWER COAT: LAZER COPPER
- ROOFING: FOREST GREEN
- ROOF TRIM: FOREST GREEN

MANUFACTURING SPECIFICATIONS STANDARDS:

- ALL WELDING IS DONE USING ELECTRIC ARC METHOD BY CERTIFIED WELDERS.
- ALL OF THE WELDING CONFORMS TO AWS-D1.1 & D1.2 CODE.

MATERIAL SPECIFICATIONS:

- POSTS CONFORM TO (A 500 GRADE B) STRUCTURAL TUBING.
- TOP PLATES, BASE PLATES, AND WING PLATES ALL CONFORM TO ASTM A36 STEEL PLATE.
- ANCHORS ARE 1"-UNC ZINC COATED ALL-THREAD TO PROVIDE DRILLING AND EPOXY PER FTG LAYOUT.

HARDWARE SPECIFICATIONS:

- HARDWARE IS ZINC COATED
- ALL BOLTS TO BE GRADE 2 OR BETTER.

FINISH SPECIFICATIONS:

- STEEL FRAMING IS WHEELABRATED TO SP 10 NEAR WHITE AND ELECTROSTATICALLY COATED WITH A POLYESTER POWDER COAT TO 6-8 MILS.
- ANY SCRATCHES OR DAMAGED PAINT TO BE TOUCHED UP AFTER FINAL ASSEMBLY.

ENGINEERING SPECIFICATIONS STANDARDS:

- STRUCTURAL DESIGN CONFORMS TO:
  - STRUCTURAL STEEL AISC SPECIFICATIONS.
  - CONSTRUCTION SPECIFICATION CODES AND CONNECTIONS IN THE STEEL CONSTRUCTION MANUAL INCLUDING ASTM CODES.
  - 2012 INTERNATIONAL BUILDING CODE AND LOCAL BUILDING CODE
  - METAL BUILDING MANUFACTURERS ASSOC.

SPECIFICATIONS

1

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Natural Structures

PO Box 270  
 Baker City, OR 97814  
 Phone: (541) 523-0224  
 Fax: (541) 523-0231

ROCKY MOUNTAIN SERIES SHELTER

DRAWN BY: TB  
 REVIEWED BY: ANS  
 DATE: 03/17/2017 SHEET SIZE: B

REVISION / DATE

PAGE SCALE: NTS

PAGE:

1



STAGE SHELTER DETAILS 1  
 AINSWORTH PARK MASTER PLAN  
 THOMPSON FALLS, MONTANA

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
 LAYOUT: D SIZE  
 SURVEYED: KLM/RG  
 DESIGN: NATURAL STRUCTURES  
 DRAFT: NATURAL STRUCTURES  
 APPROVE: -  
 DATE: -

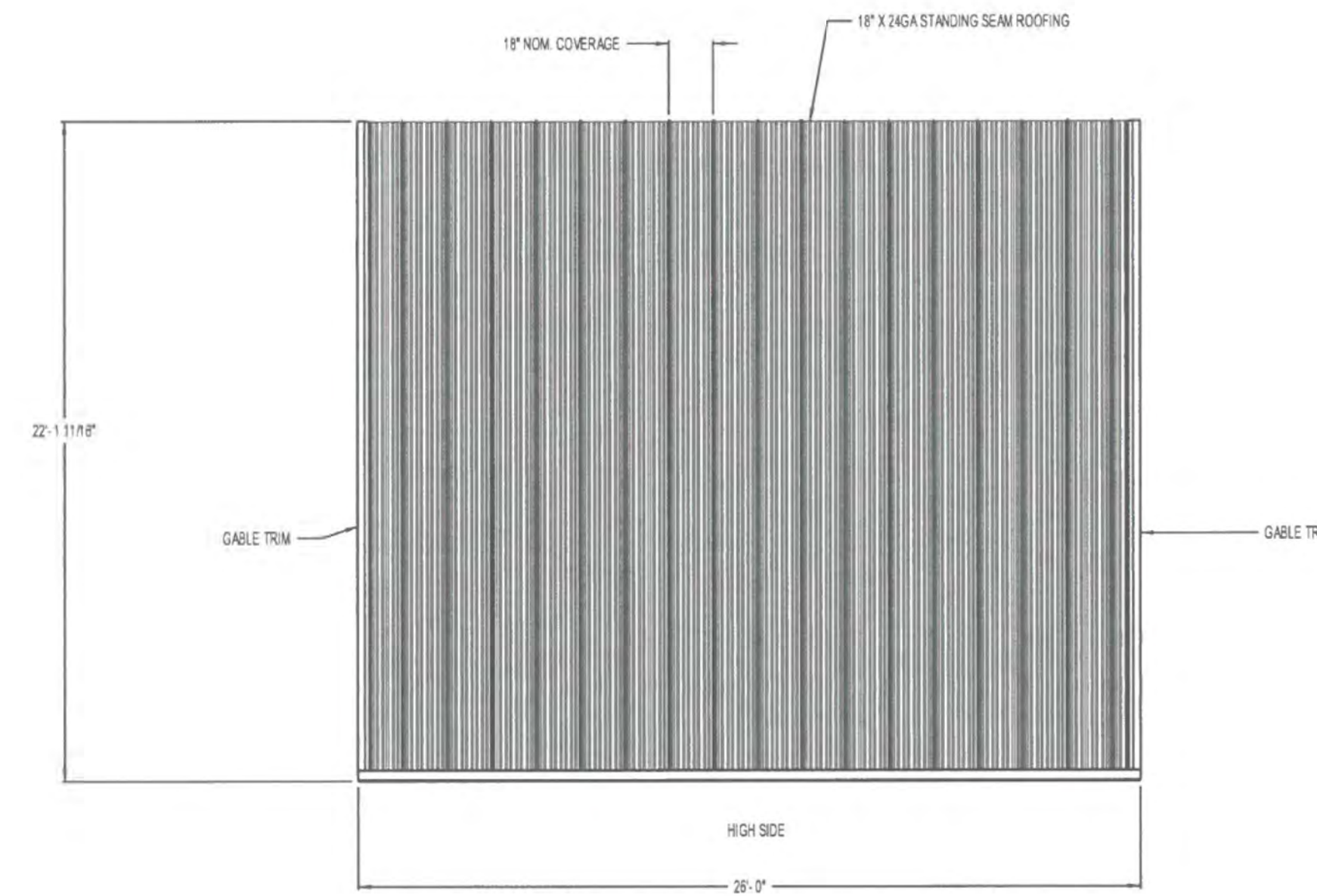
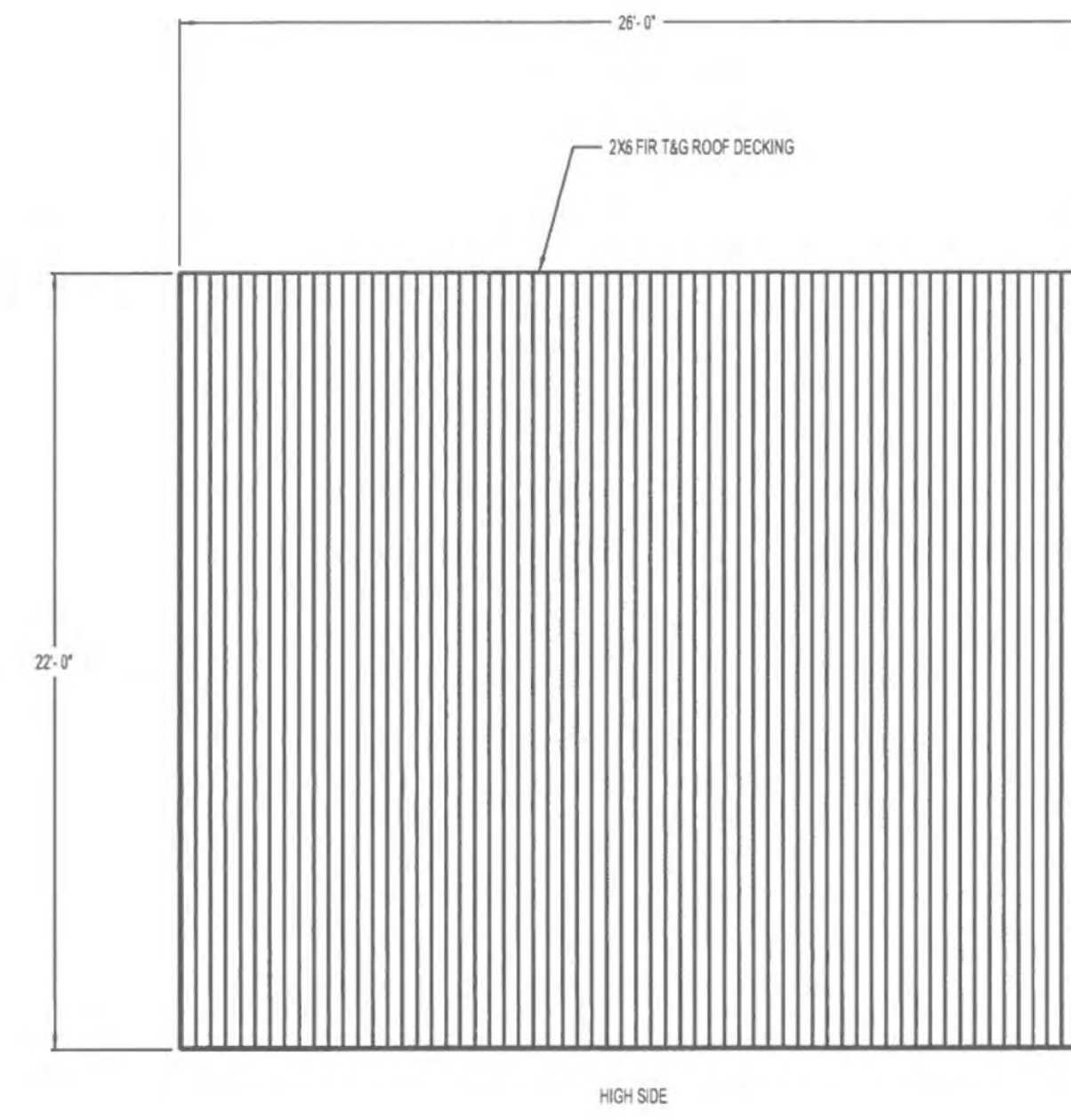
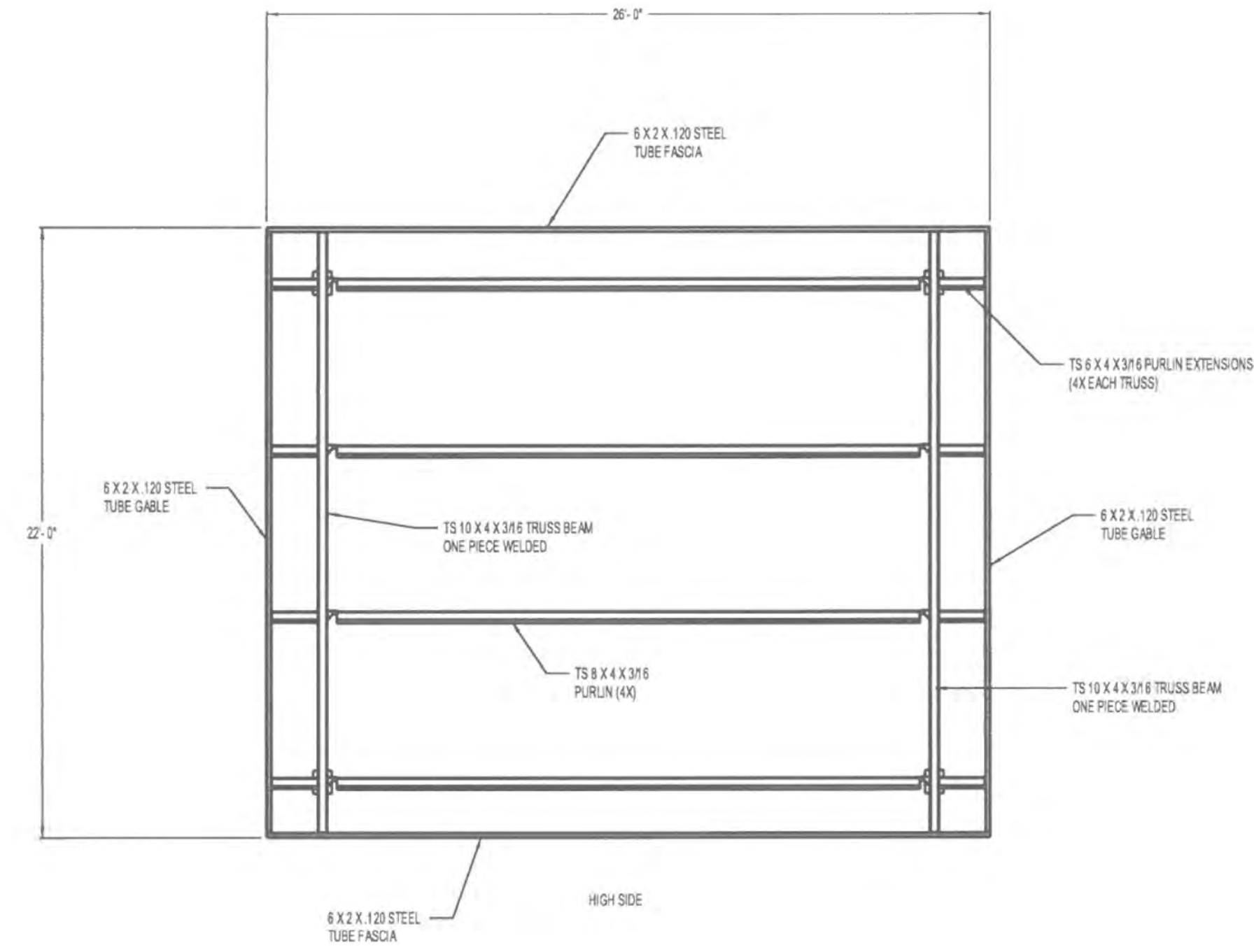
SEPT 6, 2019

SHEET 13 OF 21

NOTE:  
 STRUCTURAL SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MONTANA.

Pre-approved equals can be provided by Romtec and Polygon

FILE: W:\Projects\170725\CAD Data\Survey\170725 BASE.E.dwg



NOTE:  
STRUCTURAL SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MONTANA.

Pre-approved equals can be provided by Romtec and Polygon

Natural Structures

PO Box 270  
Baker City, OR 97814  
Phone: (541) 523-0224  
Fax: (541) 523-0231

MODIFIED ROCKY MOUNTAIN SERIES  
PLAN VIEW  
22' X 26' 2/12 PITCH

DRAWN BY: TB	ANS SHEET SIZE: B
REVIEWED BY:	
DATE: 03/7/2017	
REVISION / DATE	

PAGE SCALE: 1/8" = 1'  
PAGE:

2



STAGE SHELTER DETAILS 2  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: NATURAL STRUCTURES  
DRAFT: NATURAL STRUCTURES  
APPROVE: -  
DATE: -

SEPT 6, 2019

SHEET 14 OF 21

**Natural Structures**

PO Box 270  
Baker City, OR 97814  
Phone: (541) 523-0224  
Fax: (541) 523-0231

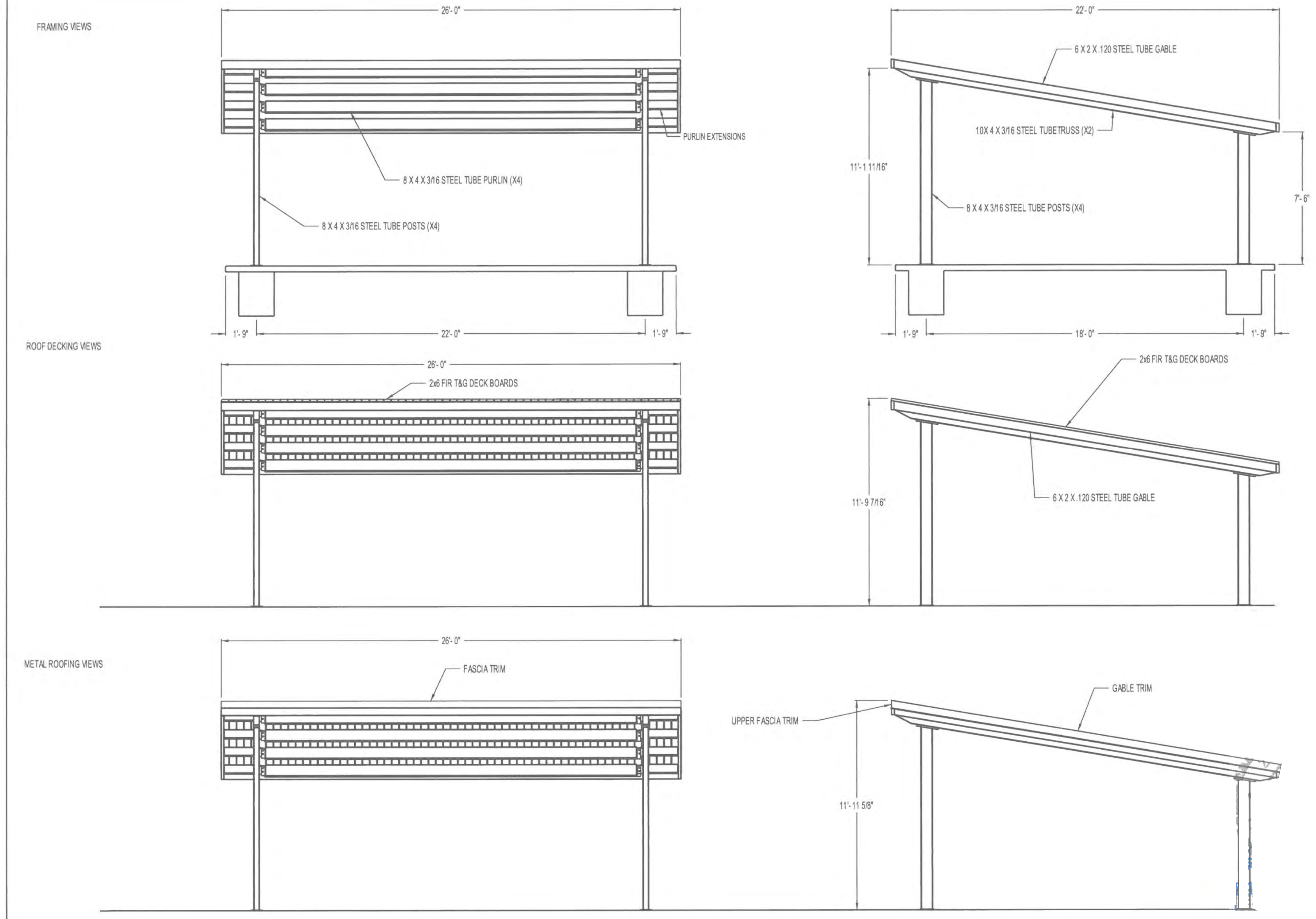
**ROCKY MOUNTAIN SERIES ELEVATION VIEWS**  
16' X 20' 4/12 PITCH

DRAWN BY: TB	ANSI SHEET	<b>B</b>
REVIEWED BY:	SIZE	
DATE: 07/20/2016	REVISION / DATE	

PAGE SCALE: 3/16" = 1"  
PAGE:

**3**

**1**  
SCALE 4:1 © 2008 Natural Structures



ELEVATION VIEWS

**NOTE:**  
STRUCTURAL SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MONTANA.

**Pre-approved equals can be provided by Romtec and Polygon**

**STAGE SHELTER DETAILS 3**  
**AINSWORTH PARK MASTER PLAN**  
**THOMPSON FALLS, MONTANA**

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: NATURAL STRUCTURES  
DRAFT: NATURAL STRUCTURES  
APPROVE: -  
DATE: -

SEPT 6, 2019

SHEET **15 OF 21**

FILE: W:\Projects\170725\CAD Data\Survey\170725 BASE\_E.dwg

**Natural Structures**

P.O. Box 270  
Baker City, OR 97814  
Phone: (541) 523-0224  
Fax: (541) 523-0231

**SINGLE SIDED ROCKY MOUNTAIN SERIES  
FOOTING LAYOUT  
22' X 26' 2/12 PITCH**

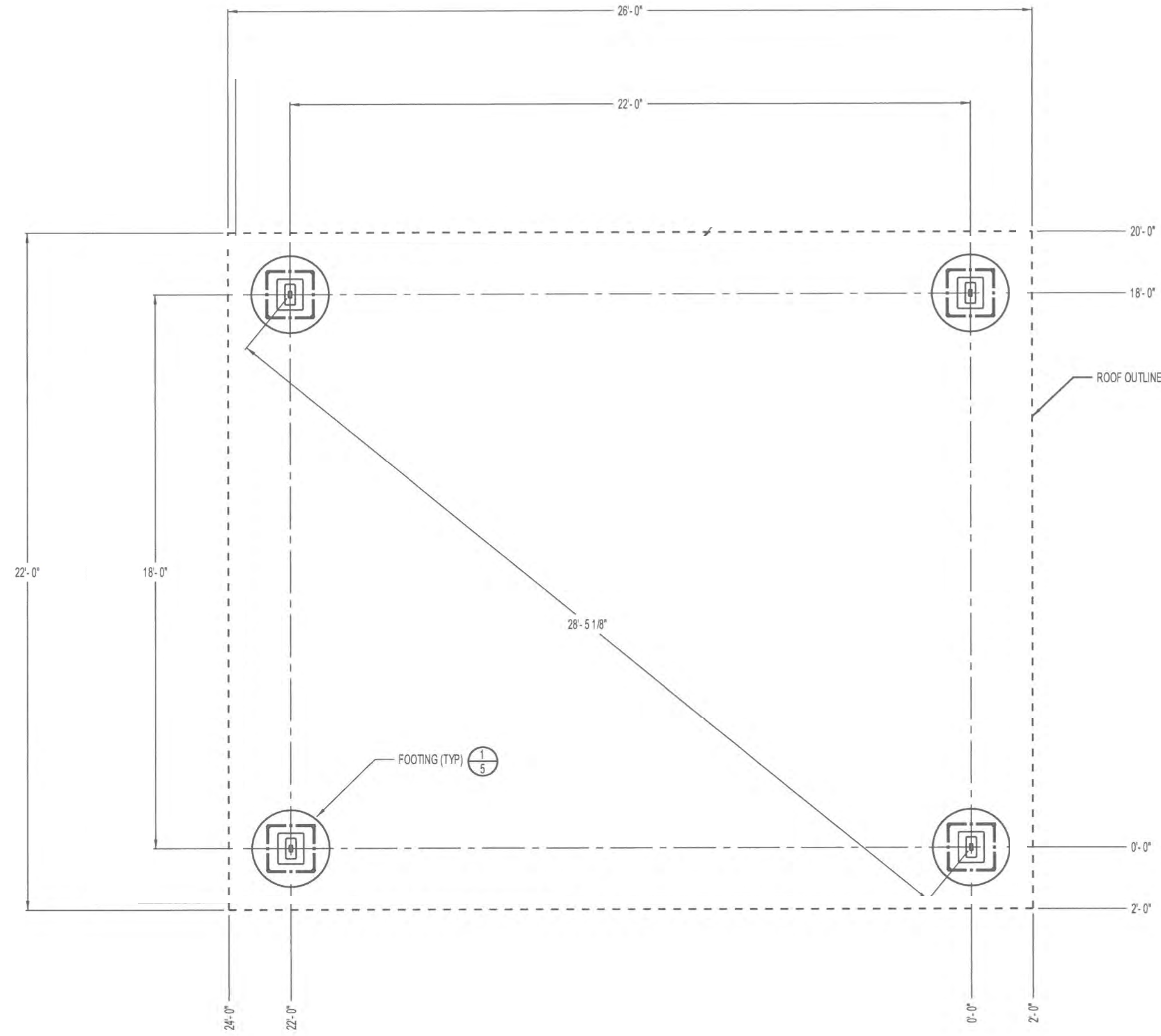
DRAWN BY: TB	ANSI SHEET B
REVIEWED BY:	SIZE
DATE: 03/17/2017	
REVISION / DATE	

PAGE SCALE: 1/4" = 1'

PAGE

**4**

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NOTE:  
STRUCTURAL SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MONTANA.

**Pre-approved equals can be provided by Romtec and Polygon**

**STAGE SHELTER DETAILS 4  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA**

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED: KLM/RG  
DESIGN: NATURAL STRUCTURES  
DRAFT: NATURAL STRUCTURES  
APPROVE: -  
DATE: -

SEPT 6, 2019

SHEET **16** OF **21**



**STAGE SHELTER DETAILS - 5-8**  
**AINSWORTH PARK MASTER PLAN**  
**THOMPSON FALLS, MONTANA**

**Natural Structures**  
PO Box 270 Thompson Falls, MT 59484  
Phone: (406) 523-0224 Fax: (406) 523-0221

**FOOTING DETAIL** SCALE 2:1

**REBAR DETAIL** SCALE 2:1

**POST COVER PLATE DETAIL** SCALE 2:1

**FOOTING ELEVATION VIEW** SCALE 2:1

**INSTALLATION INSTRUCTION AND NOTES FOR FOOTINGS** SCALE 2:1

**FOOTING DETAIL**

**5**

Note: Provide this product as shown or an approved equal

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Phone: (406) 523-0224 Fax: (406) 523-0221

**FASCIA AND GABLE TUBE DETAIL** SCALE 1:1

**PURLIN CONNECTION** SCALE 1:1

**PURLIN CONNECTION DETAIL** SCALE 1:1

**POST CONNECTION** SCALE 1:1

**BASE PLATE CONNECTION** SCALE 1:1

**CONNECTION DETAIL** SCALE 1:1

**6**

Note: Provide this product as shown or an approved equal

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Phone: (406) 523-0224 Fax: (406) 523-0221

**EAVE AND EAVE TRIM DETAIL** SCALE 1:1

**RIDGE AND RIDGE TRIM DETAIL** SCALE 1:1

**GABLE TRIM DETAIL** SCALE 1:1

**T&G TO PURLIN CONNECTION** SCALE 1:1

**HARDWARE** SCALE 1:1

**ROOF TRIM DETAIL**

**7**

Note: Provide this product as shown or an approved equal

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Phone: (406) 523-0224 Fax: (406) 523-0221

**STANDING SEAM ROOFING INSTRUCTIONS**

**DETAIL A** SCALE 2:1

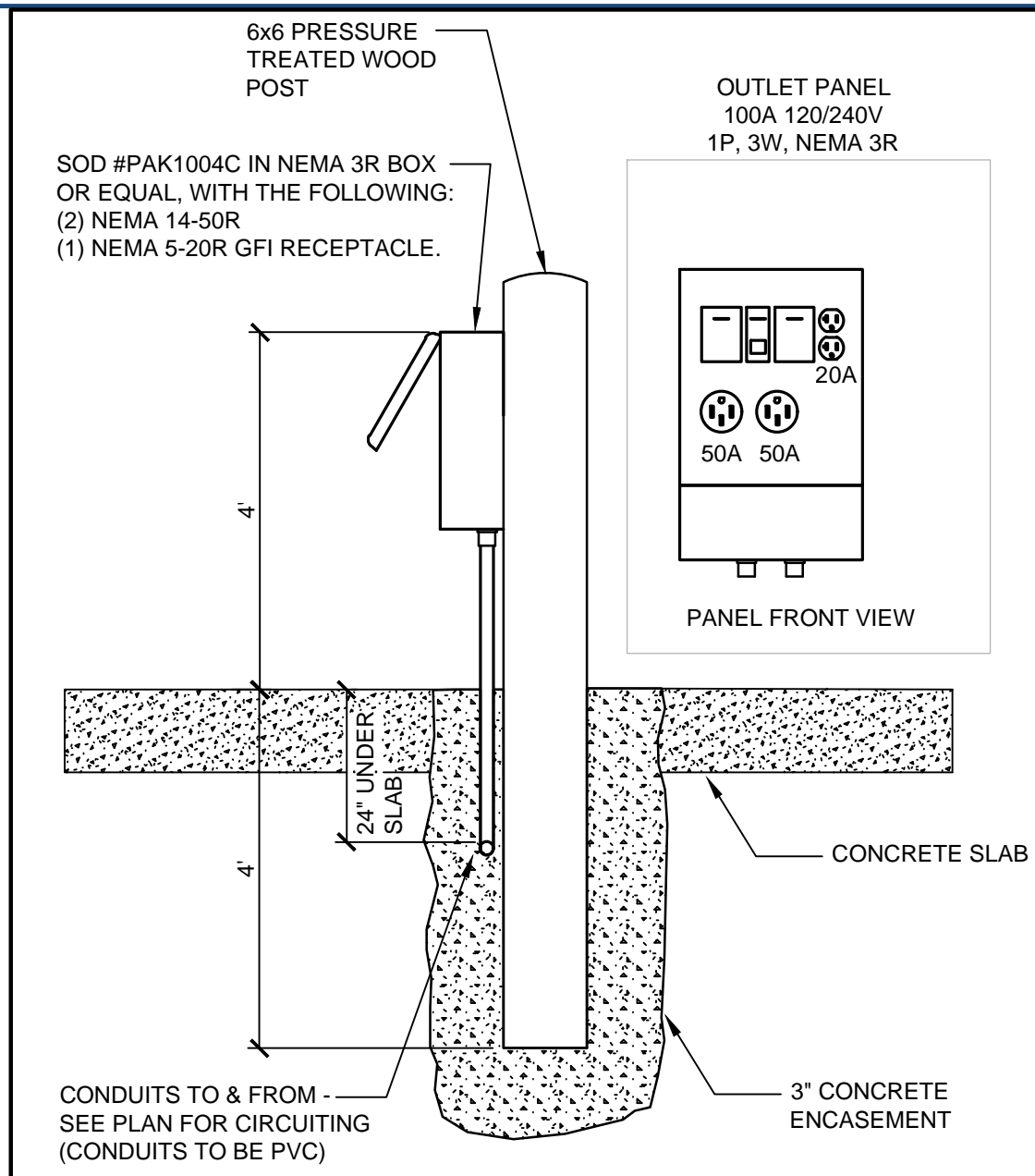
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Pre-approved equals can be provided by Romtec and Polygon

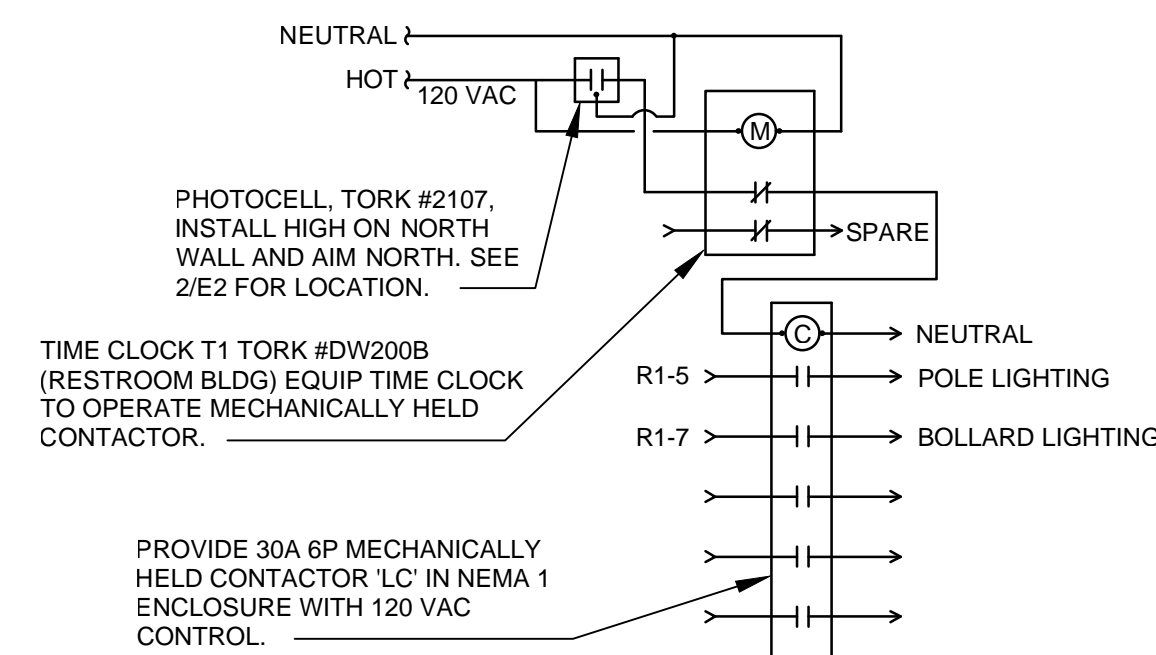
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NO.	DESCRIPTION	DATE

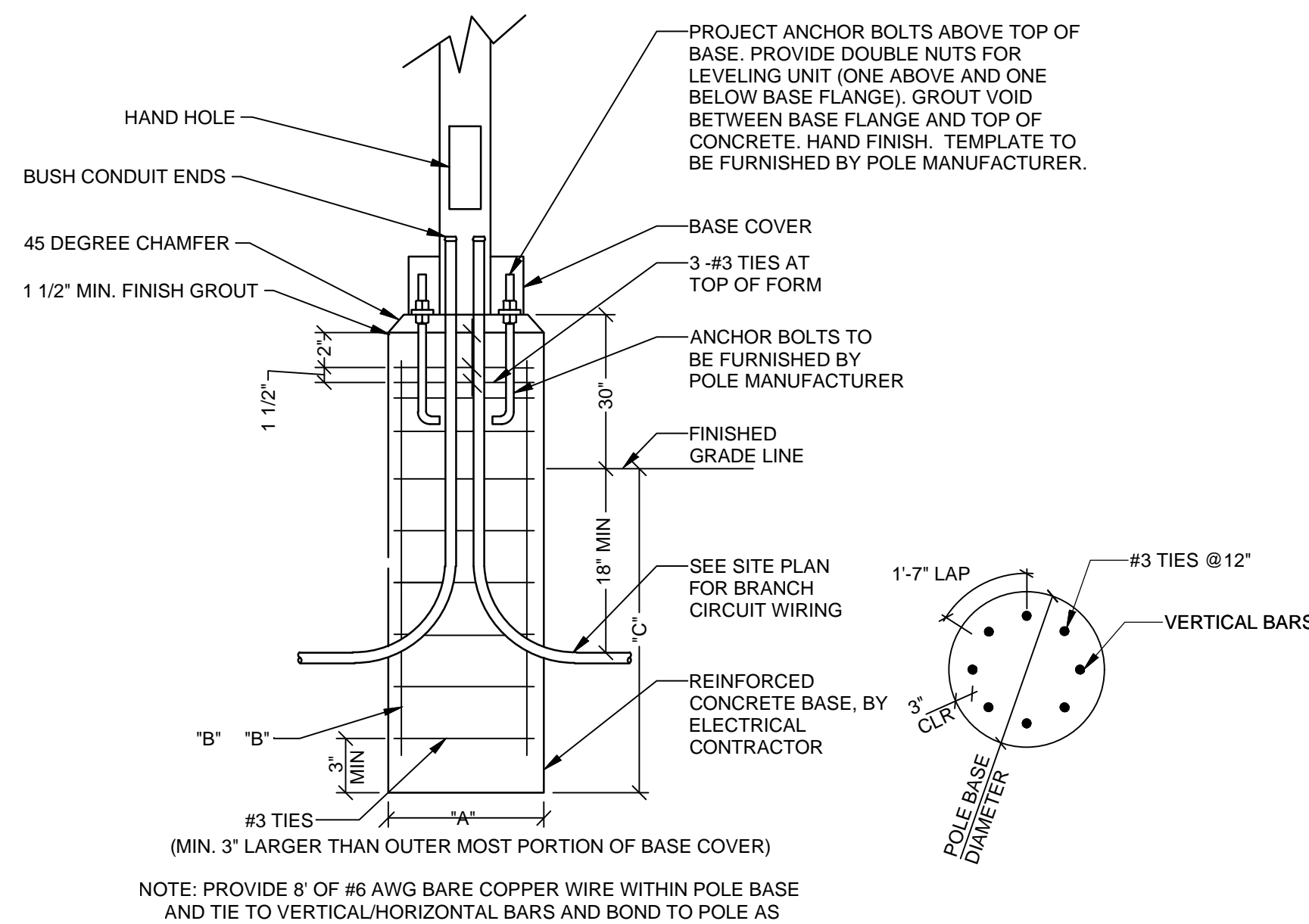
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APPROVE: -  
DATE: -



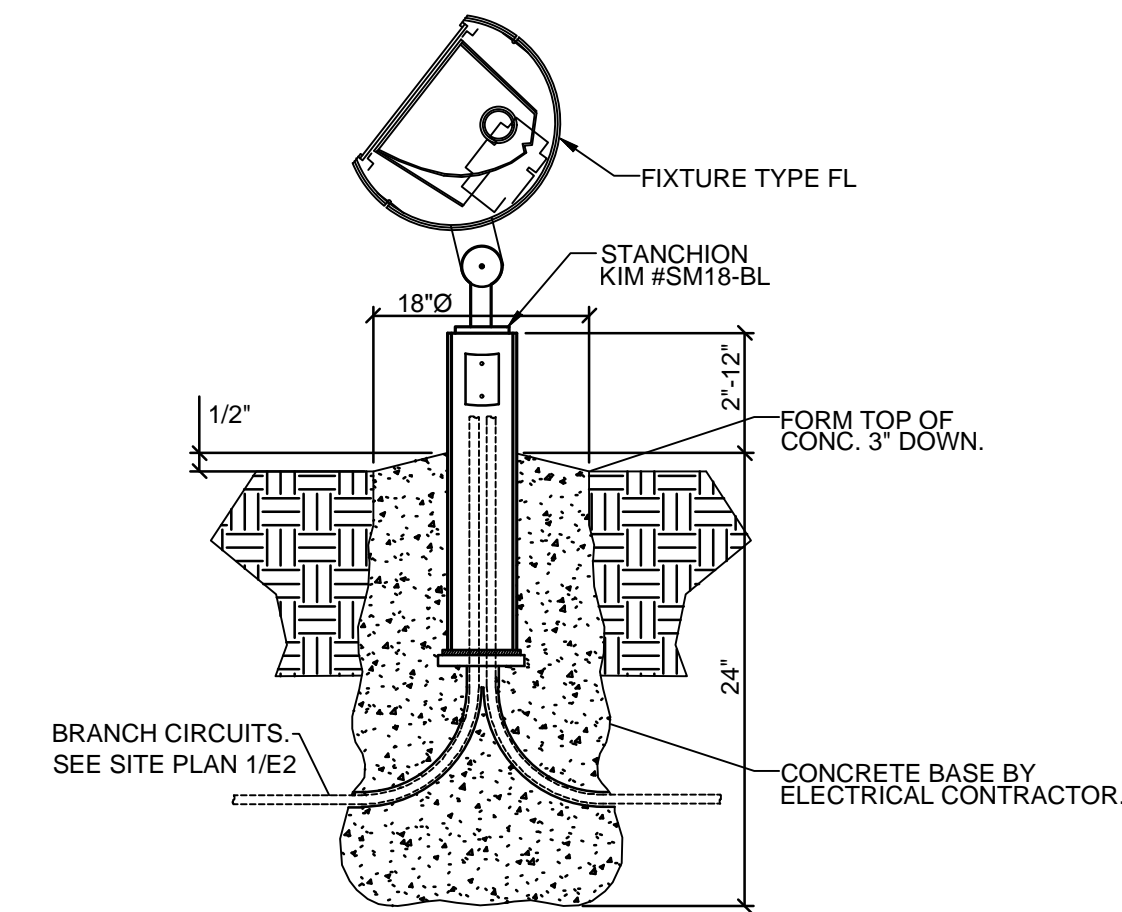
1 STAGE POWER OUTLET PANEL  
E1 NTS



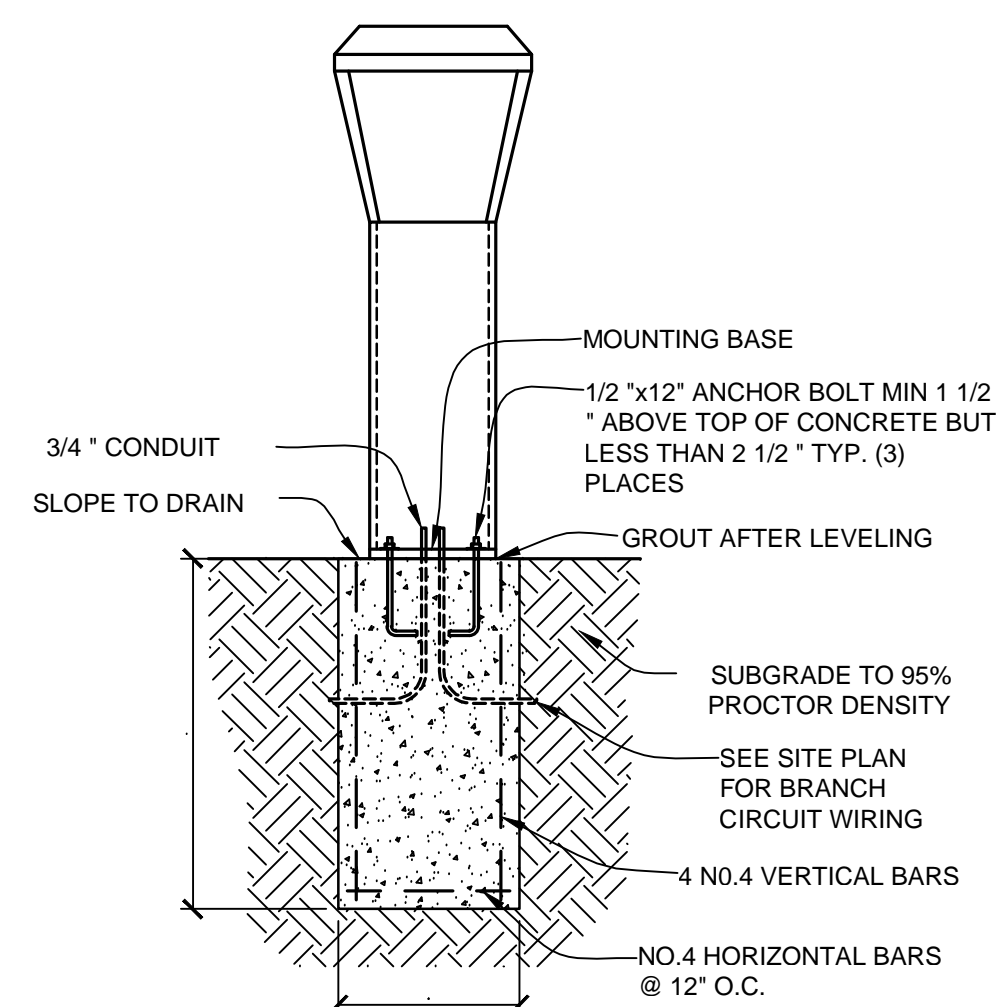
6 SITE LIGHTING CONTROL DETAIL  
E1 NTS



2 SITE POLE BASE DETAIL  
E1 NTS



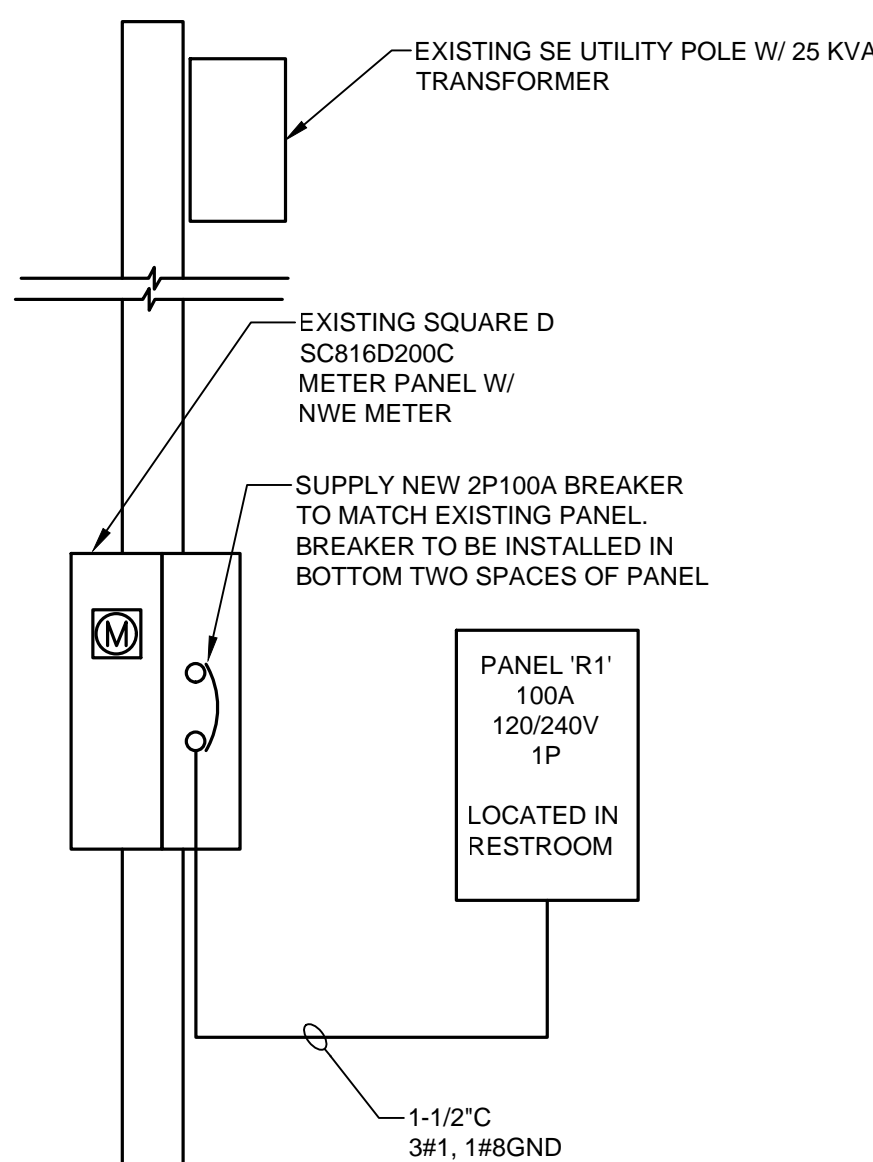
5 FLOOD LIGHT BASE DETAIL  
E1 NTS



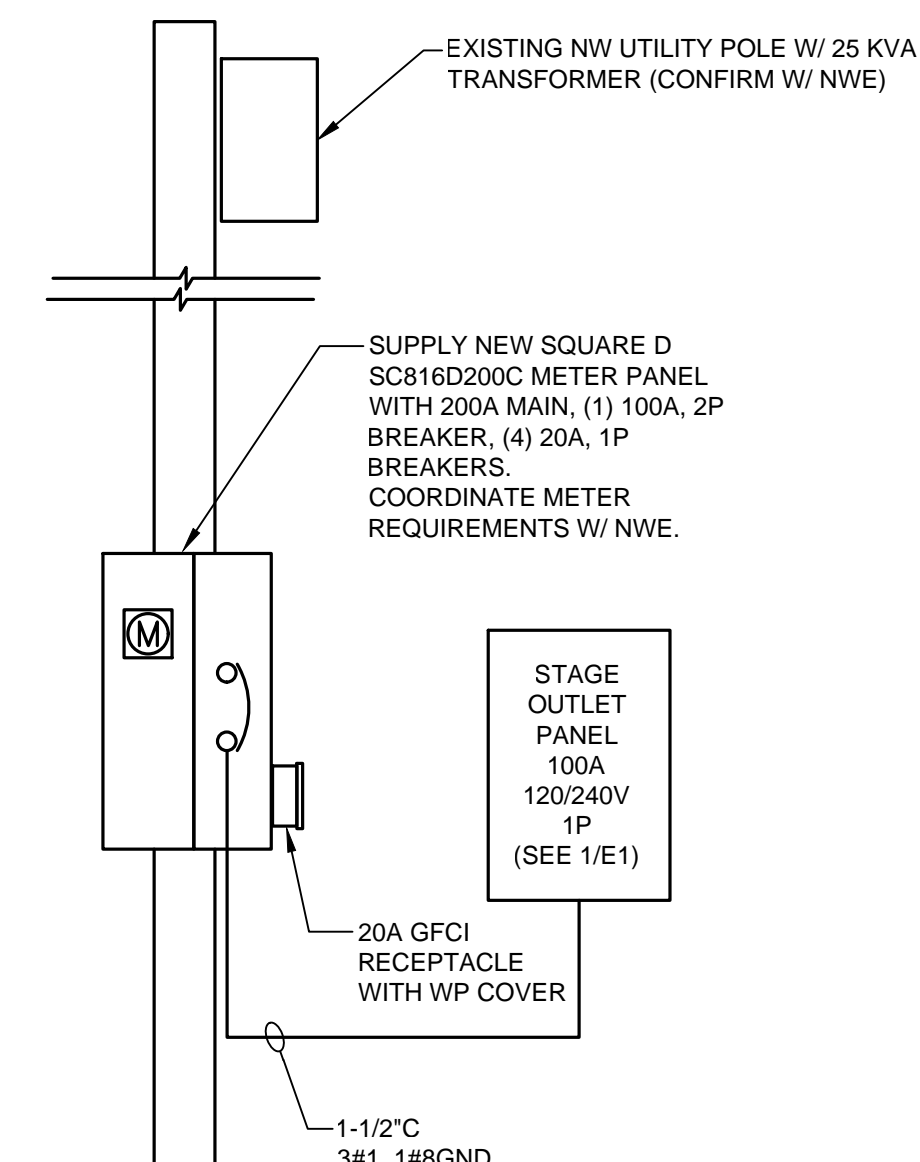
7 BOLLARD LIGHT BASE DETAIL  
E1 NTS

ABBREVIATIONS AND MISCELLANEOUS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AC	ABOVE COUNTER, 4" BACK SPLASH	TYP	TYPICAL
AFG	ABOVE FINISHED GRADE	UG	UNDERGROUND
AFF	ABOVE FINISHED FLOOR	UON	UNLESS OTHERWISE NOTED
C	CONDUIT	W	WITH
CU	COPPER	WP	WEATHER PROOF
(E)	EXISTING	BN1L-2,4,6	CIRCUIT DESIGNATION, PANEL BN1L, CIRCUITS 2,4,6
EC	ELECTRICAL CONTRACTOR	1/E501	INDICATES DETAIL 1 ON SHEET E501
EF	EXHAUST FAN	(1)	SHEET WORK NOTE
GC	GENERAL CONTRACTOR	—	HOME RUN TO PANEL
GND	GROUND	—	CONDUIT CONCEALED IN CEILING OR WALL
QTY	QUANTITY	—	CONDUIT CONCEALED UNDER FLOOR



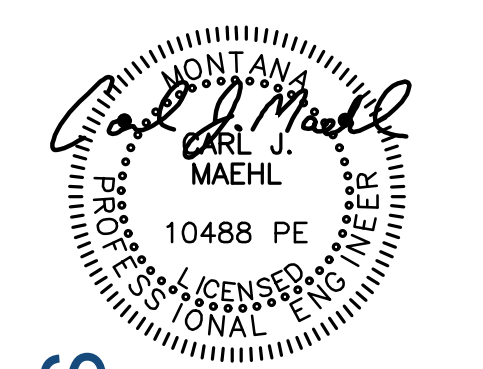
3 ONE-LINE DIAGRAM SE UTILITY LOCATION  
E1 NTS



4 ONE-LINE DIAGRAM NW UTILITY LOCATION  
E1 NTS

PANEL SCHEDULE		LOCATION		AIC RATING		10,000 AMP, RMS, SYM		PANEL NAME: R1			
REV.	DCT	NO.	DESCRIPTION	BREAKER	REF.	LTG.	REC'S	LOAD TYPE (VA)	VA	AMPS	PANEL DATA
1		1	HAND DRYER	20 1				1,150	9.6	100	VOLTAGE: 120/240
3		1	HAND DRYER	20 1				1,150	9.6	1	PHASE: 1
5		1	POLE LIGHTING	20 1				610	5.1	3	WIRE: 3
7		1	BOLLARD LIGHTING	20 1				170	1.4		MANS REF. NOTE
9		1	SPARE	20 1				0	0.0	100	CKT BRK 100 AMP
11		1	SPARE	20 1				0	0.0		LUGS ONLY NO
13			SPACE					0	0.0		GROUND BUSS
15			SPACE					0	0.0		EQUIPMENT: YES
17			SPACE					0	0.0		ISOLATED: -
CONNECTED TOTALS (INCLUDES FEED-THRU CONTRIBUTION)											
LOAD										KVA	AMPS
LIGHTING										1.0	2.4
RECEPTACLES										0.4	0.9
MOTOR										0.0	0.0
EQUIPMENT										2.3	5.5
HEATING										0.0	0.0
COOLING										0.0	0.0
TOTALS										3.7	8.8
PHASE										KVA	AMPS
A:										1.5	12.3
B:										1.3	11.1
C:										0.9	7.3
TOTAL										3.7	
FEEDER DEMAND TOTALS										KVA	AMPS
LOAD										1.3	3.0
RECEPTACLES										0.4	0.9
MOTOR										0.0	0.0
EQUIPMENT										2.3	5.5
HEAT/COOL										0.0	0.0
LARGEST MOTOR										0.2	0.5
TOTAL										4.1	9.9
DATE:										09/10/19	

LIGHT FIXTURE AND CONTROL SCHEDULE					
SYMBOL	TAG	DESCRIPTION	MODEL	LAMPS	INPUT WATTS
■	P1	TYPE 3 POLE LIGHT	LEOTEK AR13-10M2-MV-WV3-BK-700-RPA	LED	80
■	P2	TYPE 5 POLE LIGHT	LEOTEK EC3-12M2-120/277-WV-5-BK-700-RPB	LED	107
■	P3	TYPE 3 POLE LIGHT	LEOTEK EC3-12M2-120/277-WV-3-BK-700-RPB	LED	83
⊙	B1	BOLLARD	GARDCO PBL-36-14L-350-WY-G2-3-120-BK	LED	17
⊕	FL	IN GROUND FLOOD LIGHT	GARDCO DFL7-ST-RM-16L-700-WV-G2-UNV-BK-BD	LED	38
⊞	W1	LED WALL PACK (FIXTURE TO HAVE INTEGRAL PHOTO CELL)	CLW-304WP-10CLED-30-MV-BK-PC-DL	LED	12
⊞	C1	CEILING VANDAL RESISTANT	LUMINAIRE ARV17-40W-3000K-CC-OP-BLK	LED	43
■	POLE	POLE TYPE FOR P1, P2, P3	KW - RSP20-4.0-11-BLK-DM10-DC	-	-



ELECTRICAL LEGENDS AND SCHEDULES  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

REVISIONS:  
NO. DESCRIPTION DATE

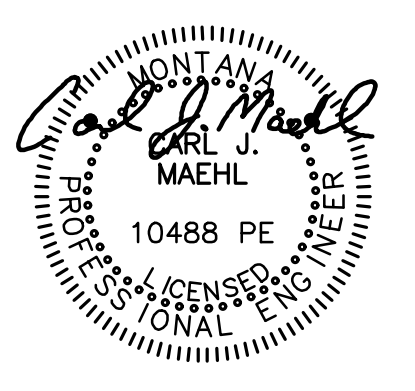
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LAYOUT: D SIZE  
SURVEYED:  
DESIGN: DL  
DRAFT: MK  
APPROVE: CM  
DATE:

SEPTEMBER 6, 2019

SHEET 18 OF 21



WGM GROUP  
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SITE POWER AND LIGHTING PLAN  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

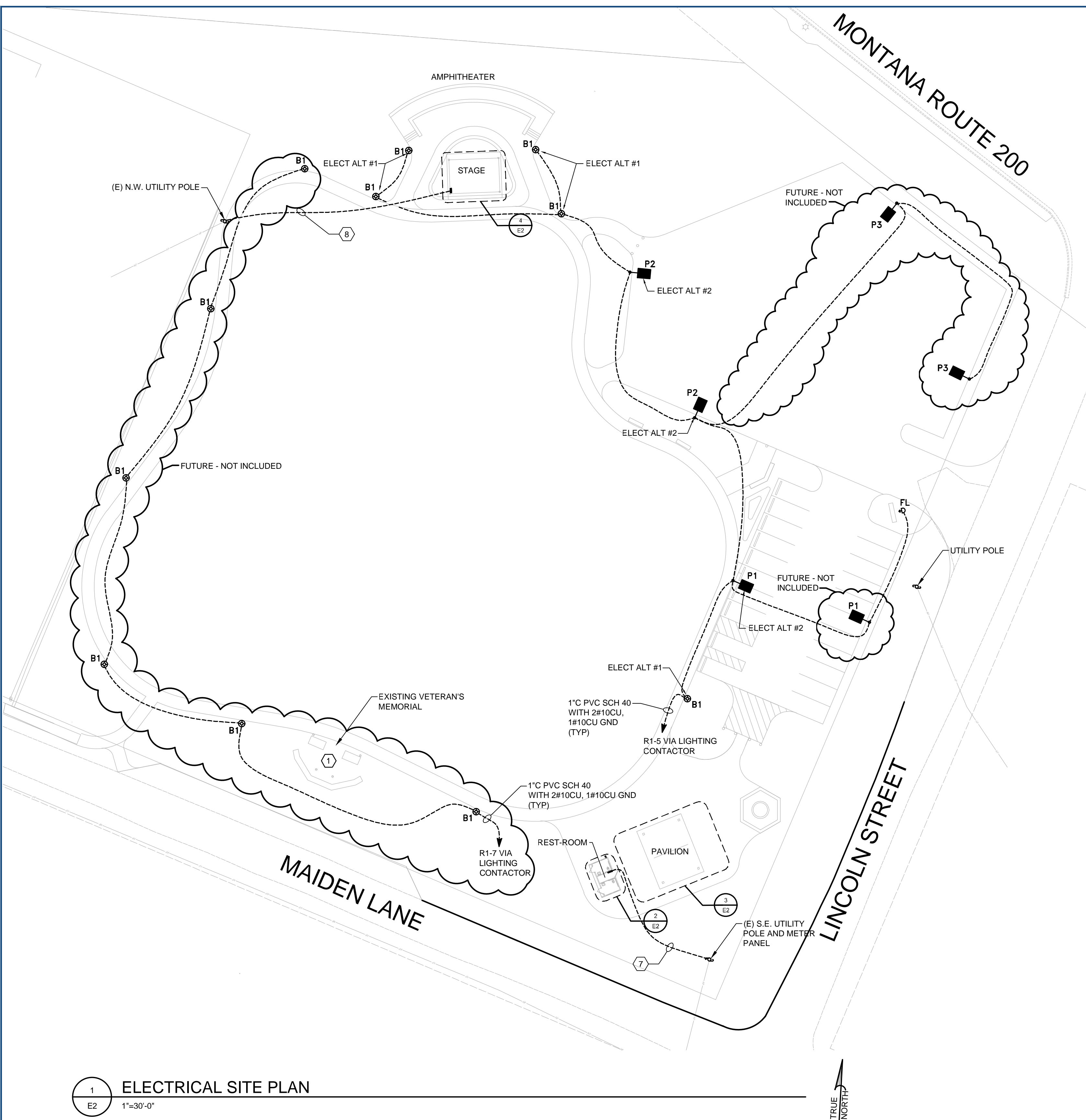
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LAYOUT: D SIZE  
SURVEYED:  
DESIGN: DL  
DRAFT: MK  
APPROVE: CM  
DATE:  
SEPTEMBER 6, 2019

ALT NOTES:

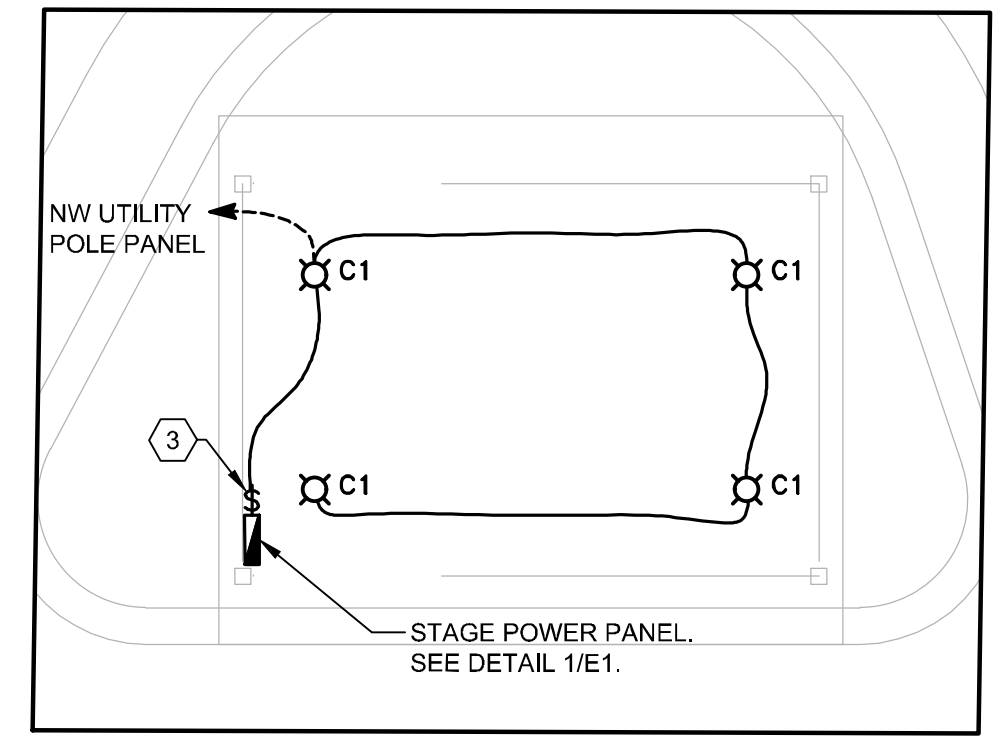
SEE PROJECT SPECIFICATIONS FOR DESCRIPTION OF ELECTRICAL ALTERNATE REQUIREMENTS.

SHEET WORK NOTES

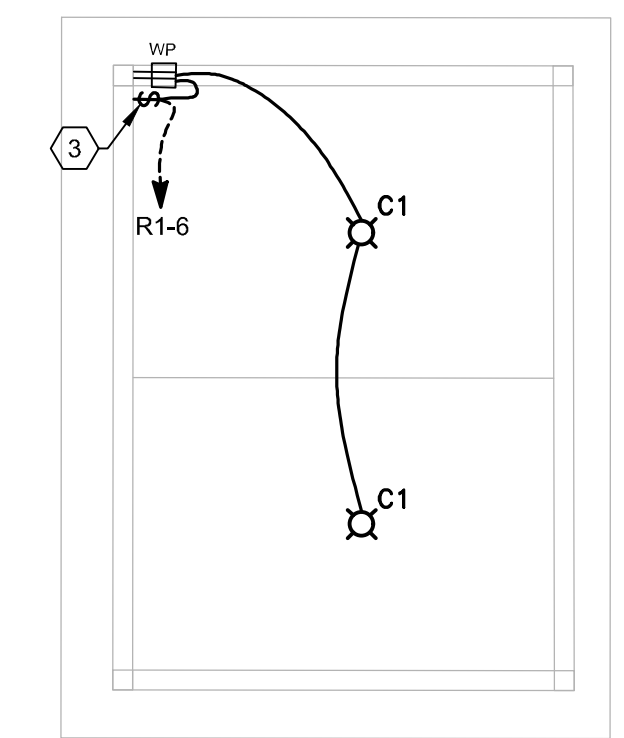
1. MAINTAIN EXISTING BOLLARD AND FLAG LIGHTING AT VETERAN'S MEMORIAL.
2. RESTROOM IS A DESIGN-BUILD PRODUCT. CONTRACTOR TO COORDINATE BLOCK OUT REQUIREMENTS FOR FEEDS TO AND FROM PANEL R1 WITH BUILDING ENGINEER PRIOR TO RELEASE OF RESTROOM.
3. SUPPLY LIGHT SWITCH IN LOCKABLE WEATHER PROOF COVER.
4. SANIFLOW 120V/9.58A HAND DRYER SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. BROAN 508 EXHAUST FAN SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
6. SUPPLY WATTSTOPPER #UT-355 (OR EQUAL) 120V ULTRASONIC CEILING SENSOR FOR CONTROL OF LIGHTING AND EXHAUST FAN. SET TO AUTO ON/AUTO OFF WITH TIME DELAY OF 20 MINUTES. SET SENSITIVITY TO MAX.
7. SEE ONE-LINE DIAGRAM 3/E1 FOR FEEDER AND EQUIPMENT REQUIREMENTS.
8. SEE ONE-LINE DIAGRAM 4/E1 FOR FEEDER AND EQUIPMENT REQUIREMENTS.



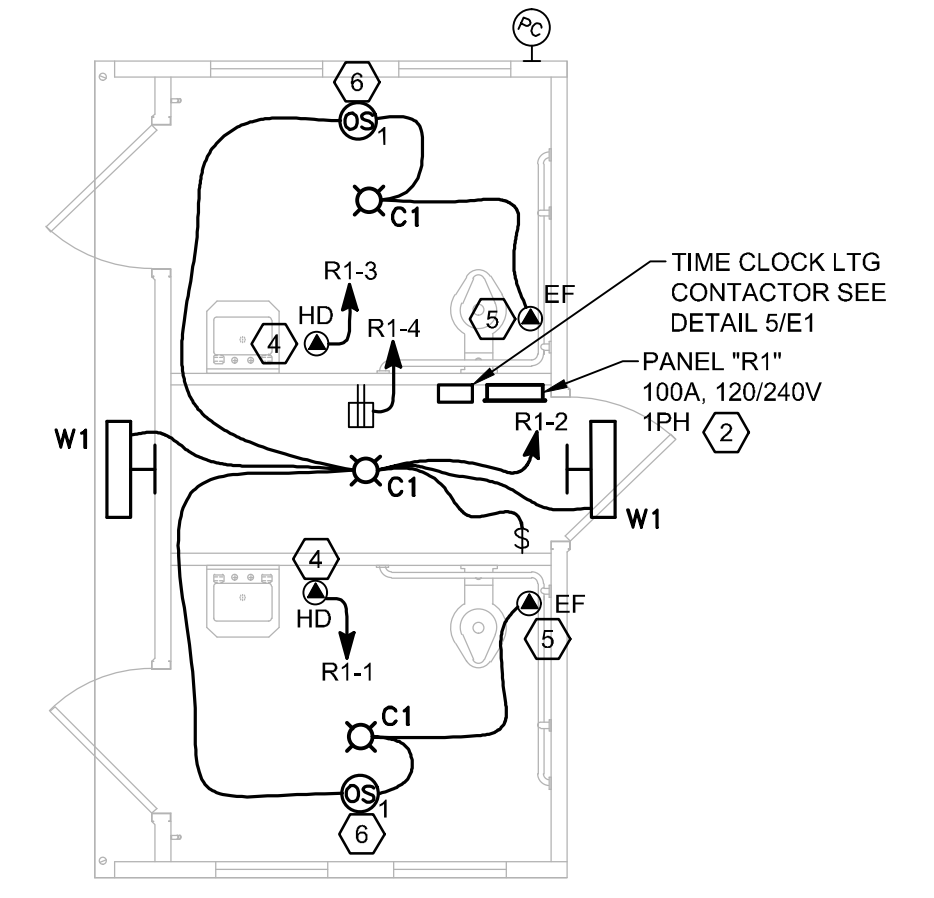
1 ELECTRICAL SITE PLAN  
1"=30'-0"



4 ENLARGED STAGE ELECTRICAL PLAN  
1/8"=1'-0"



3 ENLARGED PAVILION ELECTRICAL PLAN  
NTS



2 ENLARGED RESTROOM ELECTRICAL PLAN  
NTS

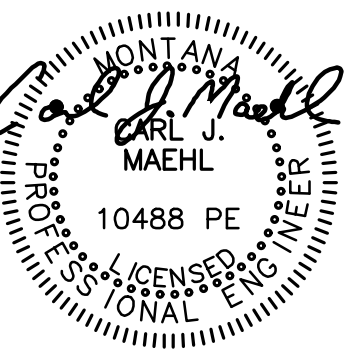
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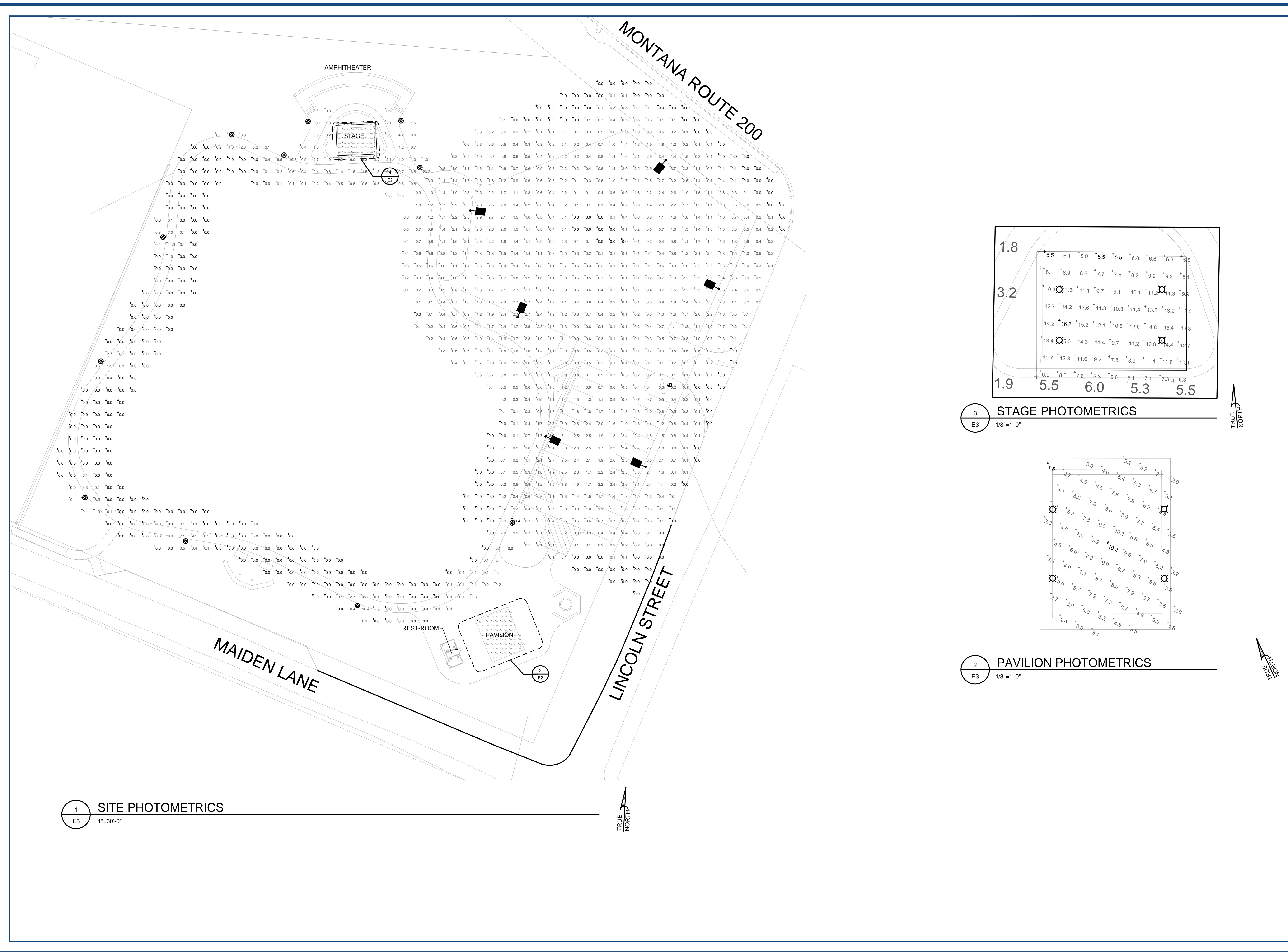


SITE PHOTOMETRICS  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 17-07-25  
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SEPTEMBER 6, 2019

FILE: W:\Projects\170725\CAD Data\Survey\170725\_BASE.dwg



1 SITE PHOTOMETRICS  
E3 1"=30'-0"

2 PAVILION PHOTOMETRICS  
E3 1/8"=1'-0"

3 STAGE PHOTOMETRICS  
E3 1/8"=1'-0"



ELECTRICAL SPECIFICATIONS

DIVISION 26 - ELECTRICAL

SCOPE

This Work consists of, but is not necessarily limited to, the furnishing of all labor, equipment, appliances and materials and the performance of all operations in connection with the installation of all electrical work completed, in strict accordance with Specifications and/or Drawings, applicable codes, including incidental materials necessary and required for their completion.

260500 - COMMON WORK RESULTS

- A. Intent of Drawings: Drawings are partly diagrammatic and do not show exact location of conduit unless specifically dimensioned.
- B. Workmanship:
  - 1. Work shall be accomplished by workmen skilled in particular trade, in conformance with best practices and accepted standards.
  - 2. Work shall contribute to efficiency of operation, accessibility, maintenance and appearance. No part of installation shall interfere with operation of any other system or part of building.
  - 3. Non-satisfactory work shall be corrected at no additional expense to Owner.
- C. Responsibility:
  - 1. The Electrical Contractor is responsible for installation of satisfactory and complete work in accordance with the intent of Drawings and Specifications. Provide, at no extra cost, incidental items required for completion of work even though not specifically mentioned or indicated in Specifications or on Drawings.
  - 2. If, at any time, and in any case, change in location of conduit, outlets, fixtures, switches, panels, electrical equipment or associated components, etc., becomes necessary due to obstacles or installation of other trades, such required changes shall be made by Contractor at no extra cost.
  - 3. Conflicts discovered during construction shall be immediately called to the attention of the Engineer for decision. Do not proceed with installation in area of question until conflict has been fully resolved.
  - 4. Coordinate all electrical work with other trades to prevent unnecessary delays in the construction schedule.
  - 5. Excavation and backfill required by electrical installations shall be accomplished by this Contractor. All backfill shall be properly compacted.
  - D. Provide temporary electrical power and lighting for all trades that require service during the course of this Project. Provide temporary service and distribution as required. Comply with the NFPA 70 and OSHA requirements.
  - E. Guarantee-Warranty: This Contractor shall and hereby does warrant and guarantee:
    - 1. That all work executed under this Section will be free from defects of materials and workmanship for a period of one year from the date of final acceptance of this work.
    - 2. The Contractor agrees to, at the Contractor's own expense, repair and replace all such defective materials and work and all other work damaged thereby which becomes defective during the term of warranty. Agreement does not include damages done by Owner.
  - F. Permits, Tests, Codes and Standards:
    - 1. Electrical Contractor to pay for all permits and fees in connection with this work.
    - 2. Work shall be in accordance with the most recent editions of adopted Local, State and National Codes and ordinances, the State Fire Marshal, and utility company regulations.
    - 3. Electrical work shall conform to National Electrical Codes, latest editions, as a minimum requirement.
    - 4. All material to conform with applicable standards.
  - G. Discrepancies: Prior to submitting Bid, Contractor shall refer any apparent discrepancies or omissions to engineer for clarification. The more stringent provisions shall take precedence where codes, Specifications and Drawings differ with one another. The Contractor shall Bid the more expensive requirement, unless discrepancy is addressed by Addendum prior to Bid.
  - H. Prior Approvals: All proposed substitutions shall be received by the Engineer 10 days prior to Bid. Priors received after 3 p.m. of the 10th day will be rejected. Supply technical data, photometrics and dimensional Drawings showing that substitutes are equal to product specified. Faxed prior approvals will not be accepted.
  - I. Shop Drawing Submittals:
    - 1. In addition to distribution requirements for submittals specified in Division 1 Section "Submittals," submit Drawings for final and official approval through the General Contractor as listed below. If the Authority Having Jurisdiction requires Shop Drawings to have a Registered Engineers Stamp Affixed, this shall be the sole responsibility of the Contractor to acquire such stamp at Contractor's cost.
      - a. Engineer - 2 copies.
      - b. General Contractor - 2 copies.
      - c. Subcontractor - copies as required.
    - Additional copies may be required by individual Sections of these Specifications. Copies of price list sheets are not acceptable. Manufacturer's name and address must appear on each sheet. All copies shall be completely legible. Fax copies are unacceptable. All Shop Drawings shall be submitted in a 3-Ring binder.
    - 2. Shop Drawings shall include a completed specification sheet of all equipment along with fabrication, installation drawings, setting diagrams, schedules, patterns, templates and similar Drawings. Installation drawings for fire alarm and clock/intercom shall be done with a computer cadd program and include no other system. A basic floor plan in electronic format can be obtained from the Project Engineer.
  - J. Project Close-Out Record Documents:
    - 1. Provide three full size sets, unless more are called for under Division 1 (one for Engineer and one for Owner). In addition to requirements called for under Division 1, indicate the following installed conditions:
      - a. Actual location of all electrical service gear/feeders, panel/motor/special equipment feeders, all major underground or underslab conduits, all conduit stubs for future use, any change in branch circuitry from Drawings, key junction boxes and pull boxes not indicated on Drawings, any control locations or indicator lights not shown on Drawings.
      - b. Addendum items, change order items and all changes made to Drawings from Bidding phase through to Project completion.
      - c. Actual equipment and materials installed. Where manufacturer and catalog number are indicated on Drawings, generally or in fixture or equipment schedules, change to reflect actual products installed.
    - 2. Change service panel and branch panel breaker locations and schedules to reflect actual installed conditions.
  - K. Supporting Equipment:
    - 1. Unless otherwise indicated, fasten electrical items and their supporting hardware securely to the building structure, including conduits, raceways, cables, cabinets, panelboards, boxes, disconnect switches, and control components. Fasten by means of wood screws or screw-type nails on wood, toggle bolts on hollow masonry units, concrete inserts or expansion bolts on concrete or solid masonry, and machine screws, welded threaded studs, or spring-tension clamps on steel. Threaded studs driven by a power charge and provided with lock washers and nuts may be used instead of expansion bolts and machine or wood screws. Do not weld conduit, pipe straps, or items other than threaded studs to steel structures. In partitions of light steel construction, use sheet metal screws. All device boxes in sheetrock walls will be tight before, during and after installation of sheetrock.
    - 2. Provide supports for electrical items in accordance with NFPA 70 and all other applicable codes.
    - 3. Contractor responsible for providing watertight conduit penetrations at all watertight walls, floors roofs and membranes. Contractor also responsible to maintain fire rating of walls, floors, roofs and membranes penetrated.
  - L. Electrical Identification:
    - 1. Apply circuit/control/item designation labels of engraved plastic laminate for disconnect switches, breakers, pushbuttons, pilot lights, panelboards and main control panel and similar systems.
    - 2. Identify power junction and pull boxes with permanent marker, indicating voltage and contained circuits.
    - 3. Identify underground exterior electrical circuits by installation of continuous underground plastic marker, 6 - 8 inches below grade.

260519 - CONDUCTORS AND CABLES

- A. All conductors shall be provided and installed in accordance with NFPA 70, NEMA, UL NETA ATS-1995, and all other applicable codes. All conductors shall be copper and installed in conduit, unless otherwise noted. Aluminum conductors shall not be used.
- B. Minimum conductor size for light and power shall be #12 AWG copper. Minimum conductor size for control wiring shall be #14 AWG copper unless noted otherwise on Drawings. #10 AWG and smaller shall be solid wire and #8 AWG and larger shall be stranded. Provide minimum #10 AWG for exterior lighting circuits.
- C. AC cable and MC Cable are not allowed, unless otherwise noted.
- D. Tighten electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values or as specified in UL Codes.
- E. Color code secondary service, feeder, and branch circuit conductors with factory applied color as follows:

120/240 Volts	Phase
Black	A
Red	B
White	Neutral
Green	Ground

260526 - GROUNDING AND BONDING

- A. Install separate insulated equipment grounding conductors for feeder and branch circuits in compliance with NFPA 70 Article 250.
- B. System Ground: Properly bond system neutral to system ground in the main service apparatus. All other neutral buses, bars, etc., must be isolated from ground. Establish the system ground as the grounding bus in main service apparatus by providing the proper ground bus in the main service apparatus and by providing the proper grounding conductor, installed in rigid steel conduit, bonded to the grounding bus and extended to the grounding point where the bond shall be made with the proper combination conduit/cable grounding clamp. Unless prohibited by Local Codes, the grounding point shall be established on the incoming water main, after ground and structural steel. Building metallic water piping system must be bonded, as required by codes, to the grounding bus in the main service apparatus. Carefully check the Drawings for additional grounding requirements and comply with NFPA 70 and all other applicable codes/standards.

260533 - RACEWAYS AND BOXES

- A. Conduit Raceway:
  - 1. Indoors, use the following, unless otherwise stated:
    - a. Concealed: EMT.
    - b. Exposed: EMT, IMC or RMC.
    - c. Connection to vibrating equipment: Flexible metal conduit.
  - 2. Outdoors, use the following, unless otherwise stated:
    - a. Concealed: RMC or IMC.
    - b. Exposed: RMC or IMC.
    - c. Underground: Schedule 40 PVC with Schedule 80 PVC fittings.
    - d. Connection to Vibrating Equipment: Liquid tight flexible metal conduit.
  - 3. ENT IS NOT ALLOWED.
  - 4. Conceal conduit and cable, unless otherwise noted; conduit is permitted to be exposed in equipment rooms. All conduits shall have insulated ground wire installed. Do not install conduit embedded in slabs. EMT fittings shall be steel, compression or set screw type. All raceways shall be installed and supported in accordance with NFPA 70 and applicable codes.
- B. Outlet Boxes:
  - 1. Conform to UL 514A, "Metallic Boxes, Electrical," and UL 514B, "Fittings for Conduit and Outlet Boxes." Outlet boxes shall be metallic and installed flush in all areas, except mechanical rooms, above lay-in ceilings, or as otherwise indicated. Minimum size to be 4 inches square by 2-1/8 inches deep. Boxes shall be of type, shape, size and depth to suit each location and application. All fittings shall be steel.
- C. Pull and Junction Boxes:
  - 1. Comply with UL 50, "Electrical Cabinets and Boxes," for boxes over 100 cubic inches volume. Boxes shall have screwed or bolt-on covers, shall be suitable for the intended application and shall be labeled.
- D. All materials shall be UL listed, appropriate for intended application. Entire raceway system shall be in accordance with NFPA 70, ANSI, NEMA, UL, and all other applicable codes.

262716 - SERVICE ENTRANCE

- A. Provide meter socket in accordance with serving utility company's requirements. Meter shall be provided by serving utility.
- B. Install service-entrance equipment as indicated, in accordance with equipment manufacturer's written instructions, and with recognized industry practices, to ensure that service-entrance equipment fulfills requirements. Comply with applicable installation requirements of NFPA 70, UL, ANSI, IEEE, and NEMA standards.
- C. Tighten electrical connectors and terminals, including screws and bolts, in accordance with equipment manufacturer's published torque tightening values for equipment connectors. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL Standards 486A, and the NFPA 70.

262416 - PANELBOARDS

- A. Manufacturer: Siemens, Square-D, GE or Cutler Hammer.
- B. Load centers are acceptable for restroom panel.
- C. Provide typed circuit schedules for existing panelboards where loads have changed and framed, typed circuit schedules for all new panelboards with identification of items controlled by each individual breaker. Indicate room numbers of items controlled or room name where appropriate for Owner's convenience.

262726 - WIRING DEVICES

- A. Acceptable Manufacturers: Pass & Seymour, Bryant, GE, Hubbell, Leviton.
- B. Devices:
  - 1. General light switches shall be 20 amp, 120/277 volt AC rated and Industrial Grade.
  - 2. General receptacles shall be self grounding 5-20R and Industrial Grade. GFCI receptacles shall be 20 amp feed through type with two utilization points. Do not connect downstream devices to load side of GFCI.
  - 3. Dimmers shall be Lutron Nova Series, sized appropriately for load.
  - 4. General device color shall be as selected by architect.

C. Device Plates:

- 1. Device plates shall have opening for device intended and shall be stainless steel.
- 2. Weatherproof receptacle covers shall be a corrosion resistant die cast metal, minimum 3 inch deep, flip cover with latch and with pad locking provisions.

265100 - LIGHTING

- A. Manufacturer, model, style, color, size, etc., as scheduled. If no color has been selected, provide fixture with the standard finish as published by the manufacturer. All fixtures to be supplied as complete, housing, sockets, lamp holders, internal wiring, wire guards, lens guards, diffusing materials or lenses, pendants, hangers, canopies, aligners, end caps, ballasts and emergency battery packs, plaster frames, recessing boxes, hold down clips, anchor bolts, etc. Install plumb and true, free of light leaks, warps, dents and other irregularities.
- B. Submit Shop Drawings in accordance with the "Common Work Results" section.



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ELECTRICAL SPECIFICATIONS  
AINSWORTH PARK MASTER PLAN  
THOMPSON FALLS, MONTANA

REVISIONS:  
NO. DESCRIPTION DATE

PROJECT: 17-07-25  
LAYOUT: D SIZE  
SURVEYED:  
DESIGN: DL  
DRAFT: MK  
APPROVE: CM  
DATE:

SEPTEMBER 6, 2019

SHEET 21 OF 21