

IRRIGATION LEGEND

- 4" CLASS 200 O-RING AND GASKET PVC IRRIGATION MAIN LINE TO BE INSTALLED FOR PHASES 1 & 2. 24" DEPTH OF BURY. ALL JOINTS AT CHANGES IN DIRECTION SHALL HAVE DUCTILE IRON FITTINGS AS INDICATED IN DETAIL B1/L1503 AND THE SPECIFICATIONS. ALL JOINTS IN STRAIGHT RUNS OF PIPE UPSTREAM OR DOWNSTREAM OF A CHANGE IN DIRECTION SHALL BE RESTRAINED WITH PIPE RESTRAINTS PER CHART IN DETAIL B1/L1503. ALL OTHER JOINTS IN STRAIGHT RUNS OF PIPE SHALL BE AS INDICATED IN THE SPECIFICATIONS. REF. DETAIL F8/L1502.
- ==== MAIN LINE AND LATERAL SLEEVE PIPING, CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC.
- IRRIGATION 2-WIRE CABLE SLEEVE PIPING, CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC.
- FLOWER WATER STATION CONNECTION: 1" SCH. 40 SOLVENT WELD PVC TO FLOWER WATER STATION (SEE DETAILS F4, D6 & D8/L1501).
- LATERAL PIPING: LATERALS 2" AND SMALLER SHALL BE SCH. 40, BELL END, SOLVENT WELD PVC. LATERALS 2 1/2" AND LARGER SHALL BE CLASS 200, BELL END, SOLVENT WELD PVC. 24" DEPTH OF BURY.
- VARIABLE ARC SPRAY HEAD ASSEMBLIES, 6" POP-UP RISER WITH PRESSURE REGULATING SPRAY BODY. NOZZLES AS FOLLOWS (INSTALL PER DETAIL C3/L1502). SEE SPECIFICATIONS.

MODEL NO.	RADIUS	GPM	PSI	PR
#10-Q	10"	0.45	30	1.72
#10-H	10"	0.89	30	1.72
#10-TQ	10"	1.34	30	1.72
#10-F	10"	1.78	30	1.72
#12-Q	12"	0.59	30	1.58
#12-H	12"	1.18	30	1.58
#12-TQ	12"	1.77	30	1.58
#12-F	12"	2.37	30	1.58
#15-Q	15"	0.92	30	1.58
#15-H	15"	1.85	30	1.58

ROTOR SPRINKLER ASSEMBLIES, 6" POP-UP WITH STAINLESS STEEL RISER AND NOZZLES AS FOLLOWS (INSTALL PER DETAIL C3/L1502). SEE SPECIFICATIONS.

MODEL NO.	RADIUS	GPM	PSI	PR
#2.5	37"	2.6	45	0.84
#2.5	37"	2.6	45	0.42
#2.5	37"	2.6	45	0.21

ROTOR SPRINKLER ASSEMBLIES, 5" POP-UP WITH STAINLESS STEEL RISER AND NOZZLES AS FOLLOWS (INSTALL PER DETAIL C3/L1502). SEE SPECIFICATIONS.

MODEL NO.	RADIUS	GPM	PSI	PR
#08	49"	9.0	70	1.44
#08	49"	9.0	70	0.72
#10	55"	11.1	70	1.42
#10	55"	11.1	70	0.71
#10	55"	11.1	70	0.36
#14	63"	22.0	70	1.32
#14	63"	22.0	70	0.66
#14	63"	22.0	70	0.33

PRESSURE COMPENSATING BUBBLER ASSEMBLIES. SEE SPECIFICATIONS. INSTALL PER DETAIL D8/L1502 AS FOLLOWS:

MODEL NO.	GPM	PSI
TYPE 1	25 (1 @ 0.25 GPM PER SHRUB)	30
TYPE 2	1.5 (3 @ 0.5 GPM PER TREE)	30

- LOCATE IN TRIANGULAR PATTERN
- AT DRIP LINE OF EXISTING TREE - PER DETAIL B5/L1502.)

10.5' X 20' PUMP HOUSE (HEATED AND VENTILATED - SEE ARCHITECTURE SHEETS) TO CONTAIN BOOSTER PUMP AND CONTROLS, 2-WIRE CONTROLLER, AND BACKFLOW PREVENTER. PUMP SHALL BE SKID-MOUNTED, VFD CONTROLLED. BOOSTER PUMP STATION WITH THREE (3) VERTICAL, MULTI-STAGE 3 HP CENTRIFUGAL PUMPS EACH CAPABLE OF PROVIDING 50 GPM AT 100 PSI. REFER TO DETAIL F3/L1503 & SPECIFICATIONS.

REMOTE CONTROL VALVE ASSEMBLY. PLASTIC BODY 24-VOLT VALVE WITH TWO-WIRE DECODER AND PRESSURE REGULATING DEVICE. INSTALL PER DETAIL F1/L1501. SEE SPECIFICATIONS.

MANUAL ISOLATION VALVE ASSEMBLY. DUCTILE IRON GATE VALVE WITH 2" OPERATING NUT, SAME SIZE AS LINE. INSTALL PER DETAIL D1/L1501. SEE SPECIFICATIONS.

DUAL MASTER VALVE (NORMALLY OPEN) AND FLOW SENSOR ASSEMBLY PER DETAIL B8/L1503. SEE SPECIFICATIONS.

FLOWER WATER STATION INCLUDING TRASH RECEPTACLE, FLOWER VASE HOLDER, AND HYDRANT. INSTALL PER DETAILS F4/L1501 AND F8/L1501.

AIR RELEASE VALVE ASSEMBLY, SIZE 1". INSTALL PER DETAIL D4/L1501. SEE SPECIFICATIONS.

WALL-MOUNTED 2-WIRE, DECODER CONTROLLER PER DETAIL F5/L1502. INSTALL CONTROLLER IN PUMP HOUSE WITH SURGE PROTECTION. PROVIDE GROUNDING PER MANUFACTURER'S SPECIFICATIONS AND DETAIL F6/L1503. CONTRACTOR SHALL TEST GROUNDING AND PROVIDE RESULTS IN WRITING TO OWNER.

QUICK COUPLING VALVE ASSEMBLY. REFER TO DETAIL F3/L1502.

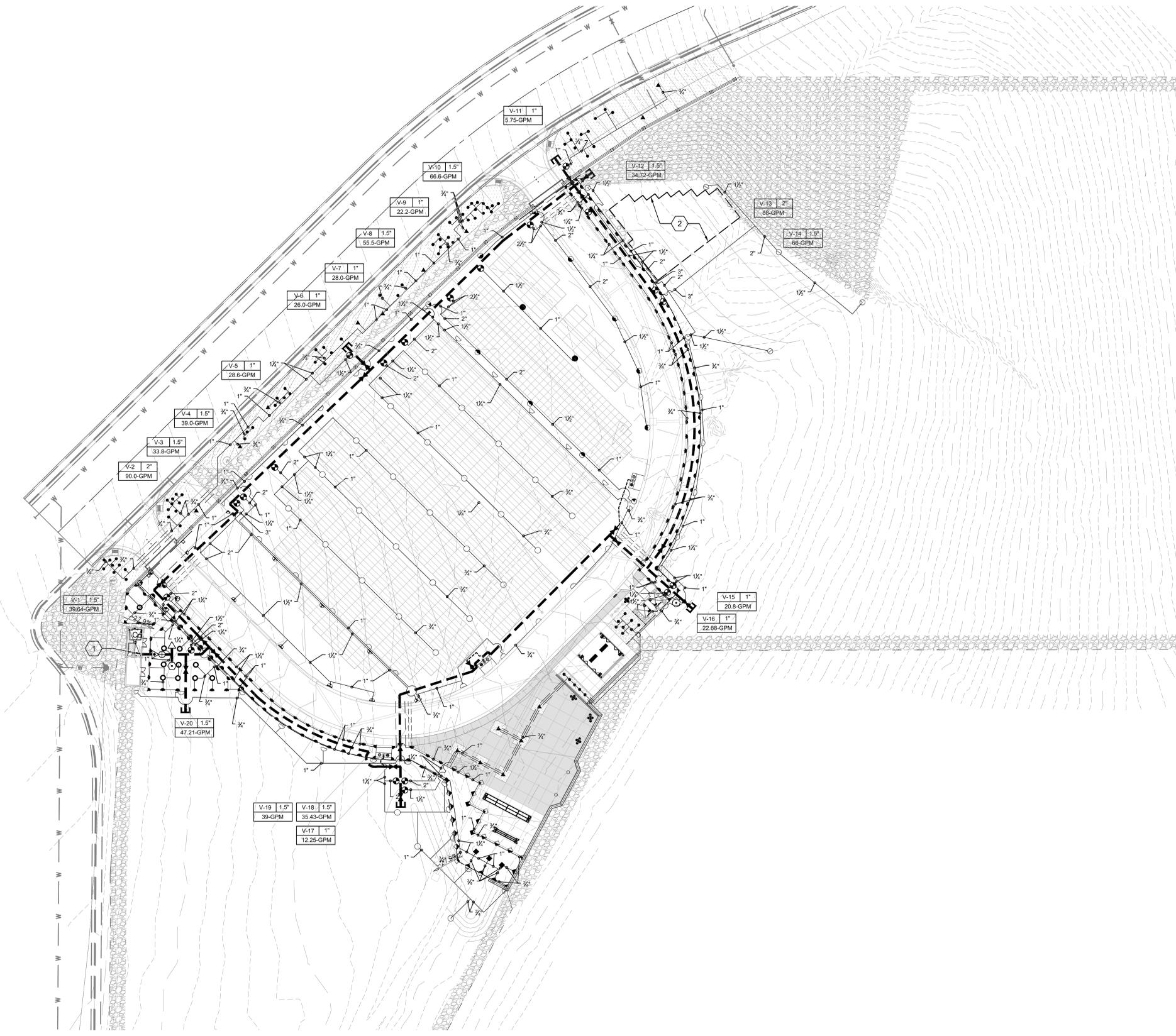
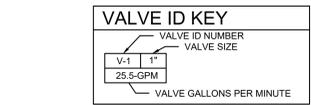
SELF-RESTRAINED DUCTILE IRON CAP, SIZE PER LINE SIZE.

IRRIGATION NOTES

- A. WHERE SLEEVING IS SHOWN ON THE PLAN, INSTALLATION SHALL BE COORDINATED WITH ALL TRADES TO ENSURE THAT PIPE AND SLEEVES ARE INSTALLED AT PROPER DEPTHS AND PRIOR TO INSTALLATION OF CURB AND GUTTER, ASPHALT PAVEMENT, SIDEWALKS, CONCRETE PADS, ETC.
- B. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH PLANS, WRITTEN SPECIFICATIONS AND DETAILS.
- C. FOR PVC IRRIGATION PIPING AND EQUIPMENT REFERENCE SPECIFICATION SECTION 328400 - LANDSCAPE IRRIGATION SYSTEM.
- D. THE LOCATION AND SIZE OF IRRIGATION EQUIPMENT ON THE PLAN IS SHOWN DIAGRAMMATICALLY FOR GRAPHIC CLARITY. THE LOCATION OF CONTROLLERS, PUMPS, BACKFLOW PREVENTERS, VALVES, ETC. SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- E. ALL VALVE BOXES IN TURF OR SEED AREAS SHALL BE GREEN WITH GREEN BOLT-DOWN LIDS. VALVE BOXES IN MULCH AREAS SHALL BE TAN WITH TAN BOLT-DOWN LIDS. SEE SPECIFICATIONS.
- F. IRRIGATION SYSTEM WAS DESIGNED AT A MINIMUM STATIC PRESSURE OF 40 PSI AT THE POINT OF CONNECTION TO THE CITY WATER SYSTEM. CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN 40 PSI THE CONTRACTOR SHALL RECEIVE DIRECTION FROM LANDSCAPE ARCHITECT REGARDING DESIGN MODIFICATIONS IF NECESSARY.
- G. AIR RELEASE VALVE LOCATIONS ARE SHOWN SCHEMATICALLY ON THE PLAN AT HIGH POINTS IN ELEVATION. CONTRACTOR SHALL SURVEY FINAL LOCATIONS OF ALL AIR RELEASE VALVES PRIOR TO INSTALLATION TO ENSURE THAT THEY ARE LOCATED AT ACTUAL HIGH POINTS.
- H. ALL IRRIGATION LATERAL LINES AND HEADS IN BURIAL AREAS WITH IRRIGATION AISLES SHALL BE INSTALLED PER DETAIL C1/L1502.
- I. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED. FOR AREAS REQUIRING SEEDING, THE CONTRACTOR AT THEIR EXPENSE IS RESPONSIBLE FOR PROVIDING IRRIGATION UNTIL ACCEPTANCE BY THE GOVERNMENT. WATER FOR IRRIGATION WILL BE PROVIDED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

IRRIGATION KEYED NOTES

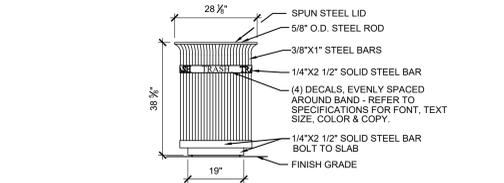
1. IRRIGATION SYSTEM POINT OF CONNECTION. CONNECT 4" MAINLINE TO PUMP DISCHARGE LINE.
2. UNDERGROUND STORMWATER DETENTION STRUCTURE. SEE CIVIL PLANS.



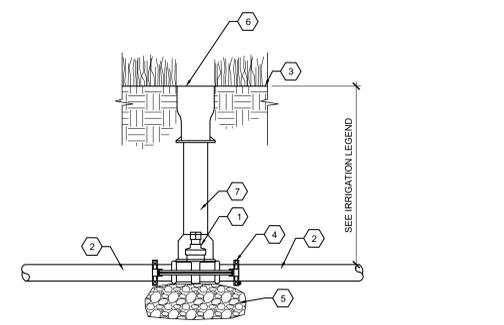
F1 IRRIGATION PLAN
SCALE: 1" = 30'-0"



<p>CD1 - REDESIGN Revisions:</p>	<p>1/22/2021 Date:</p>	<p>CONSULTANT</p> <p>wood. Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400 mwmia.com 505 268 2266</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>MRWM LANDSCAPE ARCHITECTS 18300 East 71st Ave., Denver, CO, 80249 504.684.4408; Sean Fitzpatrick</p>	<p>STAMP</p>	<p>National Cemetery Administration Design and Construction Service</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title IRRIGATION PLAN</p> <p>Approved: Project Director Steve Davis Department of Veterans Affairs, NCA Phone: 202.632.4833 Email: steve.davis@va.gov</p>	<p>Phase BID DOCUMENTS</p> <p>N/A</p>	<p>Project Title NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE</p> <p>Location Cedar City, UT</p> <p>Issue Date 7/22/2022</p> <p>Checked BV</p> <p>Drawn JS</p>	<p>Project Number 942CM3001</p> <p>Building Number N/A</p> <p>Drawing Number L1101</p> <p>Sheet 26 of 61</p>
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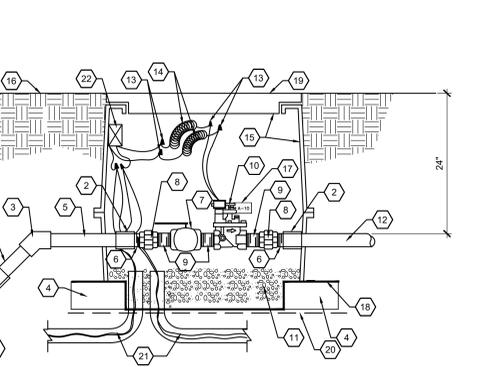


B2 TRASH RECEPTACLE
SCALE: 1/2" = 1"



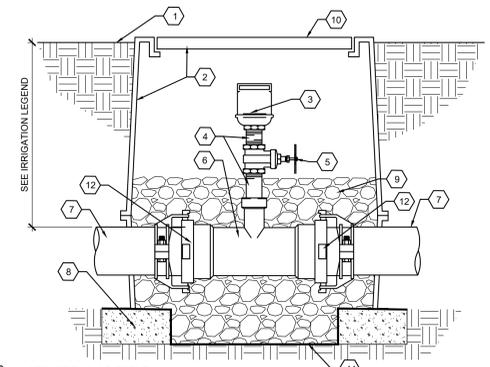
- KEYED NOTES**
- 4" IRON BODY GATE VALVE WITH 2" OPERATING NUT - SEE SPECIFICATIONS.
 - IRRIGATION MAIN LINE
 - FINISH GRADE
 - JOINT RESTRAINTS, INSTALL PER MANUFACTURER'S INSTRUCTIONS - SEE DETAIL B1/L1503 AND SPECIFICATIONS.
 - 18"L x 18"W x 6"D 95% MODIFIED PROCTOR COMPACTED AGGREGATE BASE COURSE.
 - STEEL VALVE BOX WITH 7 1/2" STEEL LID - SEE SPECIFICATIONS.
 - ADJUSTABLE SCREW TYPE 5 1/2" VALVE BOX EXTENSION - SEE SPECIFICATIONS.

D1 MANUAL ISOLATION VALVE
SCALE: N.T.S.



- KEYED NOTES**
- DUCTILE IRON SERVICE TEE WITH 2-1/2" THREADED (FPT) OUTLET. SECURE TO PIPE WITH DUCTILE IRON JOINT RESTRAINTS.
 - INSTALL SCH. 80 PVC SOLVENT WELD BUSHING TO INCREASE OR DECREASE PIPE SIZE AT SERVICE TEE. VALVE ASSEMBLY, AND/OR LATERAL LINE AS NEEDED.
 - SCH. 80 PVC SOLVENT WELD 45° FITTING.
 - 4"x8"x16" SOLID CMU BLOCK CONTINUOUS ALL SIDES.
 - SCH. 80 PVC SOLVENT WELD PIPE. LENGTH AS REQUIRED. PIPE SIZE TO MATCH LATERAL PIPING IMMEDIATELY DOWNSTREAM OF REMOTE CONTROL VALVE (REFERENCE IRRIGATION PLAN).
 - SCH. 80 PVC TOE NIPPLE, LENGTH AS REQUIRED. PIPE SIZE TO MATCH REMOTE CONTROL VALVE (REFERENCE IRRIGATION PLAN).
 - BRASS FULL-PORT BALL VALVE - SIZE TO MATCH REMOTE CONTROL VALVE.
 - SCH. 80 PVC UNION - SIZE TO MATCH REMOTE CONTROL VALVE.
 - SCH. 80 PVC NIPPLE - 3" LENGTH.
 - REMOTE CONTROL VALVE WITH PRESSURE REGULATING MODULE.
 - 1/2" WASHED GRAVEL, 8" DEPTH.
 - LATERAL PIPING (SEE IRRIGATION PLAN FOR SIZE AND LEGEND FOR MATERIAL).
 - WATERPROOF WIRE CONNECTOR. (REFERENCE DETAIL D1/L1503 & SPECIFICATIONS).
 - 38" WIRE EXPANSION LOOPS.
 - FINISH GRADE.
 - ATTACH VALVE ID TAG TO VALVE STEM WITH NYLON CABLE TIE (REFERENCE DETAIL F6/L1503).
 - FILTER FABRIC - SEE SPECIFICATIONS.
 - HOT BRAND OR CONICAL BIT ROUTER LID WITH 3" TALL BY 3/16" DEEP LETTERS AND NUMBERS IDENTIFYING VALVE STATION NUMBER I.E. "1-12" (REFERENCE IRRIGATION PLANS FOR VALVE NUMBERS).
 - 1/2" SQUARE GALVANIZED STEEL MESH.
 - DECODER CABLE IN 1" PVC CONDUIT W/ SWEEP ELLS.
 - DECODER WITH SURGE PROTECTION & GROUNDING PER DETAIL F6/L1503.

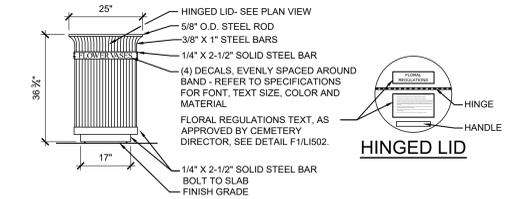
F1 REMOTE CONTROL VALVE ASSEMBLY
SCALE: N.T.S.



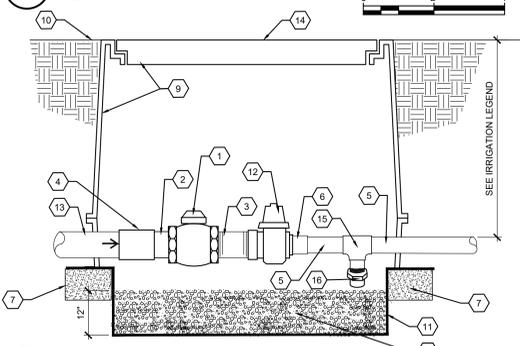
- KEYED NOTES**
- FINISH GRADE.
 - 17"x30" VALVE BOX WITH BOLT DOWN TEE COVER AND EXTENSIONS AS REQUIRED (SEE SPECIFICATIONS).
 - AIR RELEASE VALVE (SEE SPECIFICATIONS).
 - SCH. 80 PVC NIPPLE (LENGTH AS REQUIRED).
 - BRONZE GATE VALVE WITH HANDWHEEL (SEE SPECIFICATIONS).
 - DI IRRIGATION MAINLINE TEE.
 - CLASS 200 IRRIGATION MAINLINE - SEE PLAN LEGEND FOR SIZE.
 - 8"x8"x16" SOLID CMU BLOCK.
 - 1/2" WASHED GRAVEL.
 - MARK LID LETTERS "ARV". SEE SPECIFICATIONS FOR APPROVED METHOD.
 - FILTER FABRIC - SEE SPECIFICATIONS.
 - DUCTILE IRON JOINT RESTRAINT - SEE DETAIL F1/L1503 AND SPECIFICATIONS.

- GENERAL NOTES**
- INSTALL AN 8"x8"x16" SOLID CMU BLOCK AT EACH CORNER OF VALVE BOX.
 - WASHED ROCK SHALL BE INSTALLED FLUSH WITH BOTTOM OF GATE VALVE.
 - 4" MIN CLEARANCE BETWEEN VALVE BOX LID AND HIGHEST OBJECT IN BOX.

D4 AIR RELEASE VALVE ASSEMBLY
SCALE: N.T.S.

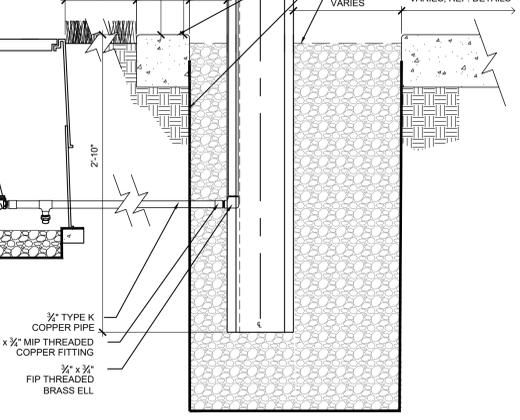
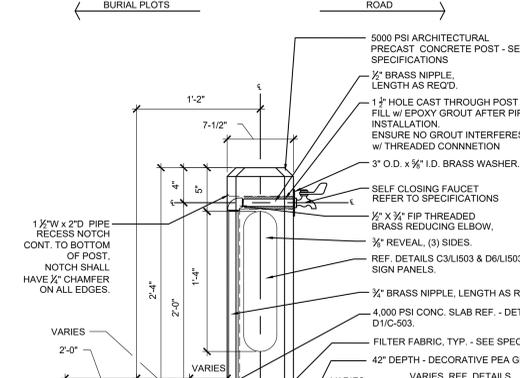


A6 FLOWER VASE HOLDER
SCALE: 1/2" = 1"

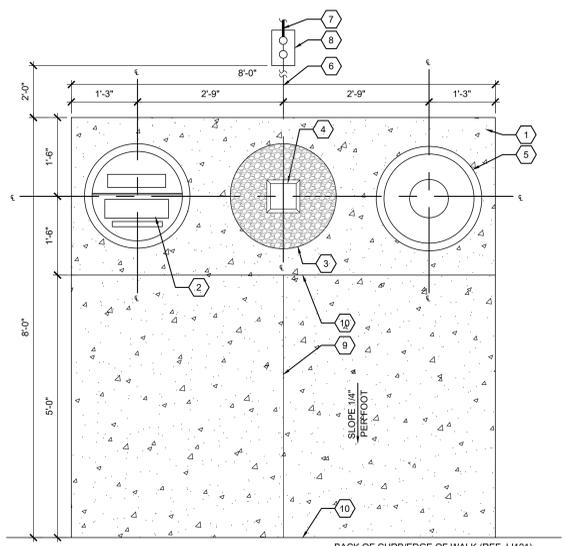


- KEYED NOTES**
- 1" BRASS CURB STOP VALVE - SEE SPECIFICATIONS.
 - 1" SCH 80 PVC TOE NIPPLE.
 - 1" x 1/2" PVC TT BUSHING.
 - 1" SW COUPLING.
 - 1/2" TYPE K COPPER LINE.
 - 1/2" SWEAT X NPT ADAPTER.
 - 8"x8"x16" SOLID CMU BLOCK, ONE PER CORNER, 4 TOTAL PER BOX.
 - 1/2" WASHED GRAVEL, 12" DEPTH.
 - 17"x30" VALVE BOX WITH BOLT DOWN TEE COVER AND EXTENSIONS AS REQUIRED - SEE SPECIFICATIONS.
 - FINISH GRADE.
 - FILTER FABRIC - SEE SPECIFICATIONS.
 - 1/2" PRESSURE REDUCING VALVE - SEE SPECIFICATIONS.
 - 1" SCH 40 PVC SUPPLY LINE.
 - MARK LID WITH LETTERS "FWS". SEE SPECIFICATIONS FOR APPROVED METHOD.
 - 3/4" SWEAT X 3/4" SWEAT X 1/2" FPT COPPER TEE.
 - BRASS AUTOMATIC DRAIN W/ 1/2" MPT - SEE SPECIFICATIONS.

D6 FLOWER WATER SPIGOT SHUT-OFF VALVE ASSEMBLY
SCALE: N.T.S.

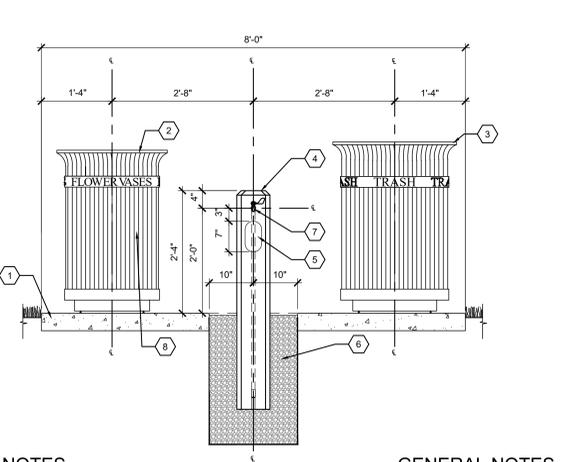


F4 FLOWER WATER STATION SPIGOT ASSEMBLY
SCALE: 1-1/2" = 1"



- KEYED NOTES**
- 4" THICK, 4,000 PSI, PLAIN GRAY CONCRETE SLAB WITH TOOLED EDGE AND MEDIUM BROOM FINISH - REF. CIVIL DETAIL C5/C-503 FOR REINFORCEMENT & SUBGRADE.
 - FLOWER VASE RECEPTACLE - SEE DETAIL A6/L1501.
 - 24" x 30" WASHED GRAVEL SUMP - SEE DETAIL F4/L1501.
 - FLOWER WATER STATION SPIGOT ASSEMBLY - SEE DETAIL F4/L1501.
 - TRASH RECEPTACLE - SEE DETAIL B2/L1501.
 - 1" SCH 40 PVC SUPPLY LINE.
 - FLOWER WATER SPIGOT SHUT-OFF VALVE & PRV. SEE DETAIL D6/L1501.
 - CONTRACTION JOINT, REF. E3/C-503.
 - EXPANSION JOINT, REF. F1/C-503.

D8 FLOWER WATER STATION GROUP PLAN
SCALE: 3/4" = 1'-0"



- KEYED NOTES**
- 4" THICK, 4,000 PSI CONCRETE SLAB W/ TOOLED EDGE & MEDIUM BROOM FINISH. REF. TO DETAIL C5/C503 FOR REINFORCEMENT.
 - FLOWER VASE HOLDER. SEE DETAIL A6/L1501.
 - TRASH RECEPTACLE. SEE DETAIL B2/L1501.
 - FLOWER WATER SPIGOT ASSEMBLY, REF. DETAIL F4/L1501.
 - "DO NOT DRINK" SIGN, REF. - DETAIL D6/L1503.
 - 24" x 42" - 3/4" WASHED GRAVEL SUMP LINED W/ FILTER FABRIC - SEE SPECIFICATIONS.
 - SELF-CLOSING WATER SPIGOT - SEE SPECIFICATIONS.

F8 FLOWER WATER STATION ELEVATION
SCALE: 3/4" = 1'-0"

- GENERAL NOTES**
- PIPE RISER AND ELBOW TO BE RECESSED INTO 1/2" WIDE X 2" DEPTH NOTCH CAST INTO POST.
 - SUBMIT SHOP DRAWINGS & SAMPLE FOR APPROVAL PRIOR TO FABRICATING POSTS - SEE SPECIFICATIONS.
 - DECORATIVE GRAVEL TO MATCH GRAVEL STRIP AT COLUMBARIUM. CONTRACTOR SHALL SUBMIT SAMPLE.

CONSULTANT

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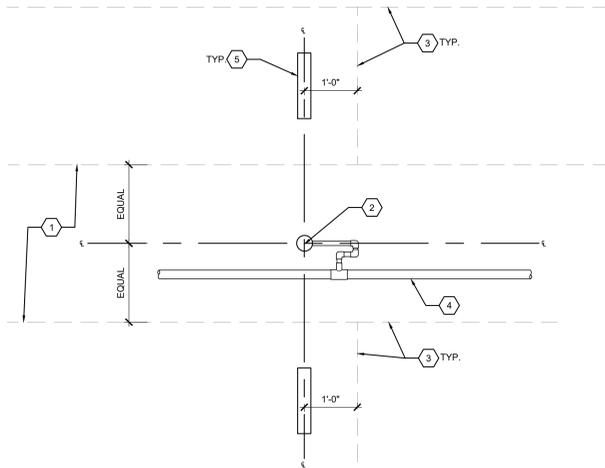
VA U.S. Department of Veterans Affairs

Drawing Title
IRRIGATION DETAILS 1

Approved: Project Director
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BID DOCUMENT SUBMITTAL

Phase BID DOCUMENTS	Project Title NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE	Project Number 942CM3001
Location Cedar City, UT	Building Number N/A	Drawing Number LI501
Issue Date 7/22/2022	Checked BV	Drawn JS
		Sheet 27 of 61

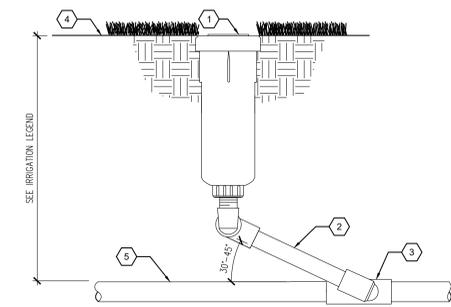


KEYED NOTES

- IRRIGATION AISLE, REF TO CIVIL PLANS.
 - IRRIGATION HEAD & SWING JOINT ASSEMBLY, REF IRRIGATION PLAN.
 - BURIAL GRID, TYP.
 - IRRIGATION LATERAL PIPING, REF. IRRIGATION PLAN.
 - HEADSTONE, TYP.
- GENERAL NOTES:
- BURIAL GRID DIMENSIONS VARY, REFER TO CIVIL PLANS.
 - IN LOCATIONS WHERE BACK-TO-BACK HEADS ARE TO BE INSTALLED IN IRRIGATION AISLE, PROVIDE MIN. 4" SEPARATION BETWEEN HEADS.
 - IN LOCATIONS WHERE HEADS ARE TO BE INSTALLED ADJACENT TO THE BURIAL GRID, BUT NOT IN AN IRRIGATION AISLE, CONTRACTOR SHALL INSTALL HEAD 18" FROM EDGE OF GRID.

C1 HEAD LOCATION AT IRRIGATION AISLE

SCALE: 3/4" = 1'-0"

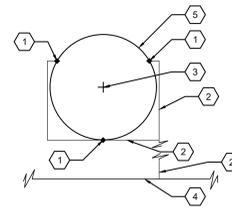


KEYED NOTES

- SPRINKLER BODY, SEE IRRIGATION LEGEND.
- PRE-FABRICATED SCH 80 PVC SWING JOINT, SIZE SAME AS HEAD INLET SIZE, SEE SPECIFICATIONS.
- PVC LATERAL PIPE FITTING
- FINISH GRADE AND/OR TOP OF SOD OR SEEDING BED, SEE PLANTING PLAN.
- LATERAL PIPING, SEE IRRIGATION LEGEND.

C3 POP-UP SPRINKLER ASSEMBLY

SCALE: N.T.S.

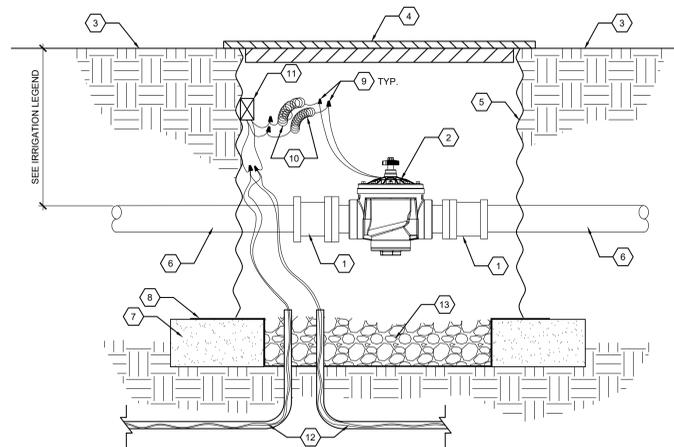


KEYED NOTES

- BUBBLER - SEE IRRIGATION LEGEND, 3/4" TREE, TYP.
- 3/4" LATERAL.
- TREE CENTER.
- LATERAL, SEE PLAN.
- ROOTBALL.

B5 BUBBLERS TRIANGULATED AROUND TREE DETAIL

SCALE: N.T.S.

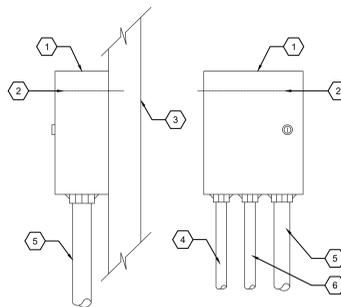


KEYED NOTES

- SELF RESTRAINED FLANGED X BELL ADAPTER - SEE SPECIFICATIONS.
- FLANGED MASTER VALVE - SEE SPECIFICATIONS.
- FINISH GRADE.
- 48" DIA. CAST IRON MANHOLE RING AND COVER.
- 48" DIA. CORRUGATED METAL PIPE.
- IRRIGATION MAINLINE.
- 8" X 8" X 16" SOLID CMU BLOCK - CONTINUOUS ALL SIDES.
- FILTER FABRIC - SEE SPECIFICATIONS.
- WATERPROOF WIRE CONNECTOR - SEE DETAIL D1/LI502.
- 36" WIRE EXPANSION LOOPS.
- DECODER - SEE SPECIFICATIONS.
- DECODER CABLE IN 1" PVC CONDUIT WITH SWEEP ELLS - SEE SPECIFICATIONS.
- 3/4" WASHED GRAVEL, 6" DEPTH.

D5 MASTER VALVE ASSEMBLY - 4"

SCALE: N.T.S.



KEYED NOTES

- AUTOMATIC CONTROLLER (SEE LEGEND).
- EYE LEVEL.
- WALL.
- CONDUIT FOR 120 VOLT WIRE.
- CONDUIT FOR 2-WIRE DECODER CABLE.
- CONDUIT FOR GROUND WIRE, REF. DETAIL D5/LI502.

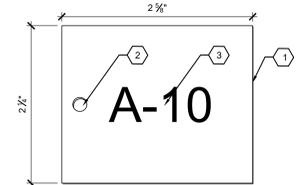
GENERAL NOTE

- A. CONTROLLER SHALL BE MOUNTED SECURELY TO WALL USING APPROPRIATE FASTENERS FOR WALL TYPE. ALL EXPOSED CONDUIT SHALL BE E.M.T. OR EQUAL AND APPROVED BY LOCAL CODES. ALL CONDUIT CONNECTIONS SHALL BE MADE USING WATERTIGHT CONNECTORS.

F5 2-WIRE DECODER IRRIGATION CONTROLLER

SCALE: N.T.S.

NOTE: ATTACH VALVE TAG TO VALVE STEM WITH NYLON CABLE TIE

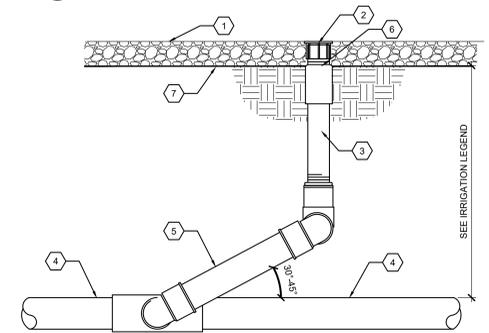


KEYED NOTES

- 1/16" THICK RIGID 2-PLY LAMINATE PLASTIC TAG - SEE SPECIFICATIONS FOR SOURCE. TAG COLOR SHALL BE YELLOW WITH BLACK LETTERING.
- 3/16" DIAMETER DRILLED HOLE.
- HOT-STAMPED BLACK LETTERING.

B8 PLASTIC VALVE TAG

SCALE: N.T.S.



KEYED NOTES

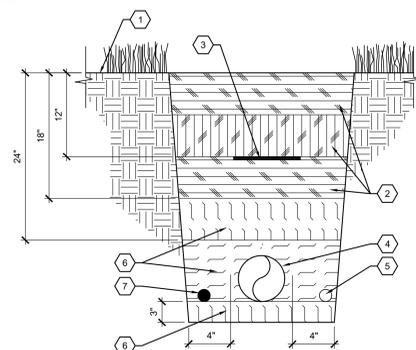
- TOP OF MULCH, SEE PLANTING NOTES FOR DEPTH OF MULCH.
- PRESSURE COMPENSATING BUBBLER, SEE LEGEND.
- 1/2" SCH 80 PVC THREADED NIPPLE, LENGTH AS REQUIRED.
- PVC LATERAL PIPING.
- PRE-FABRICATED SCH. 80 PVC SWING-JOINT, SEE SPECIFICATIONS.
- 1/2" MIPT x MIPT IN-LINE ADJUSTABLE SPRING CHECK VALVE, SEE SPECIFICATIONS.
- FILTER FABRIC, SEE SPECIFICATIONS.

GENERAL NOTES

- A. BUBBLER SHALL BE LOCATED AS NOTED ON IRRIGATION PLAN. BUBBLER SHALL BE 6" FROM ROOT BALL OF SHRUB.
- B. TOP OF BUBBLER TO BE FLUSH WITH TOP OF MULCH.

D8 BUBBLER ASSEMBLY

SCALE: N.T.S.



KEYED NOTES

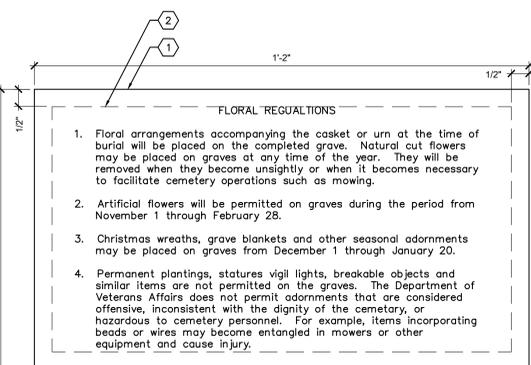
- FINISH GRADE.
- FINAL BACKFILL, PLACE AND TAMP IN 6" LIFTS.
- DETECTABLE WARNING TAPE, 12" OF COVER, DIRECTLY OVER PIPE.
- 4" CLASS 200 PVC MAINLINE, PER IRRIGATION LEGEND.
- DECODER CABLE IN CONDUIT, INSTALL AT BOTTOM OF TRENCH ON OPPOSITE SIDE OF TRACER WIRE - SEE SPECIFICATIONS.
- FILL WITH CLEAN BEDDING SAND AND TAMP IN LIFTS AS INDICATED.
- TRACER WIRE, INSTALL AT BOTTOM OF MAINLINE TRENCH ON OPPOSITE SIDE OF DECODER CABLE - SEE SPECIFICATIONS.

GENERAL NOTES

- A. REFER TO IRRIGATION LEGEND FOR COVER REQUIREMENTS OF PIPE.
- B. PIPE MAY NOT BE INSTALLED AT GREATER OR LESSER DEPTH WITHOUT PRIOR APPROVAL OF COR.
- C. HAND DIG BEDDING TO ACCOMMODATE BELLS AND FITTINGS.
- D. SNAKE PIPE BACK AND FORTH WITHIN TRENCH.
- E. PIPE IS TO HAVE CONTINUOUS SUPPORT ON BEDDING COURSE. NO BRIDGING ACROSS VOIDS.
- F. CHANGES IN DIRECTION ARE TO BE ACCOMPLISHED BY USE OF 45° OR SMALLER ANGLE ELBOWS. 90° ELBOWS ARE TO BE USED ONLY WITH PRIOR APPROVAL.
- G. DECODER CABLE TO BE RUN IN CONDUIT WITHOUT TENSION. LEAVE SLACK LOOPS OF 3 FEET AT SPLICES AND AT REMOTE CONTROL VALVES.

F8 MAINLINE PIPE TRENCH

SCALE: N.T.S.



KEYED NOTES

- EDGE OF DECAL.
- LIMITS OF TEXT.

- NOTES
- REFER TO SPECIFICATIONS FOR DECAL FONT(S), HEIGHT(S), COLOR, COPY.
 - VERIFY EXACT COPY WITH CEMETERY DIRECTOR PRIOR TO ORDERING.
 - PROVIDE FULL-SIZE PAPER MOCK-UP FOR REVIEW AND APPROVAL BY COR PRIOR TO FABRICATION.

F1 FLORAL REGULATIONS DECAL

SCALE: N.T.S.

KEYED NOTES

- FINISH GRADE.
- 1" QUICK COUPLING VALVE - SEE SPECIFICATIONS.
- 10" ROUND ABS PLASTIC VALVE BOX WITH BOLT DOWN LID AND EXTENSIONS AS REQUIRED.
- QUICK COUPLER ANCHOR - SEE SPECIFICATIONS.
- 6" MINIMUM DEPTH OF 3/4" WASHED GRAVEL.
- 8"X8"X16" SOLID CMU BLOCK CONTINUOUS ON ALL SIDES.
- 1" DIAMETER PVC SCH. 80 NIPPLE, LENGTH AS REQUIRED.
- SCH. 40 PVC COUPLING.
- 1" PRE-FABRICATED SCH 80 PVC SWING JOINT, LAY LENGTH SHALL BE 12" - SEE SPECIFICATIONS.
- 1" FNPT OUTLET.
- DI TAPPED TEE ON 4" MAIN LINE PIPE.
- FILTER FABRIC - SEE SPECIFICATIONS.
- HOT BRAND OR CONICAL BIT ROUTER LID WITH 3" TALL BY 3/16" DEEP LETTERS: "OC".

GENERAL NOTES

- FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
- ASSEMBLY SHALL BE INSTALLED IN TURF. FINAL LOCATION SHALL BE CONFIRMED BY COR IN THE FIELD.

F3 QUICK COUPLING VALVE ASSEMBLY

SCALE: N.T.S.

CONSULTANT

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LANDSCAPE ARCHITECTS

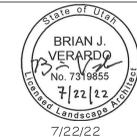
mrwmla.com 505 268 2266

ARCHITECT/ENGINEER OF RECORD

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Construction Management
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504.684.4408; Sean Fitzpatrick

STAMP



National Cemetery
Administration
Design and
Construction
Service

VA U.S. Department
of Veterans Affairs

Drawing Title

IRRIGATION DETAILS 2

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
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Phase

BID DOCUMENTS

N/A

Project Title

NATIONAL CEMETERY DEVELOPMENT
CEDAR CITY RURAL INITIATIVE

Location
Cedar City, UT

Issue Date
7/22/2022

Checked
BV

Drawn
JS

BID DOCUMENT SUBMITTAL

Project Number

942CM3001

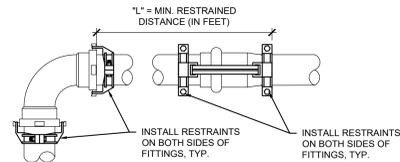
Building Number

N/A

Drawing Number

LI502

Sheet 28 of 61



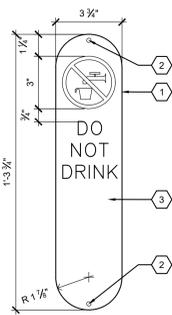
JOINT RESTRAINT DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE MINIMUM RESTRAINED LENGTH (IN FEET) FOR EACH SIZE/TYP OF PIPE AND FITTING WITHIN WHICH ALL JOINTS MUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.

AS AN EXAMPLE, IF YOU ARE INSTALLING A 4" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 4" AND UNDER BENDS 90° YOU WILL SEE THE DISTANCE OF 20". IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 20" OF THE 90° MAINLINE DIRECTIONAL CHANGE. RESTRAINTS MUST BE INSTALLED AT JOINTS ON BOTH SIDES OF THE FITTING.

PIPE SIZE	MIN. "L" AT BENDS			MIN. "L" AT REDUCERS			MIN. "L" AT DEAD END	MIN. "L" AT GATE VALVE
	11°	22°	45° 90°	1 STEP	2 STEP	3 STEP		
4"	2'	4'	9'	14'	20'	31'	45'	23'

NOTE: JOINT RESTRAINT DISTANCE CHART IS PROVIDED FOR REFERENCE ONLY AND IS FOR THE PRODUCT INDICATED IN THE SPECIFICATIONS. IF ANOTHER PRODUCT IS SELECTED, JOINT RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH THAT PRODUCT MANUFACTURER'S RECOMMENDATIONS FOR THE MINIMUM RESTRAINED LENGTH OF PIPE.

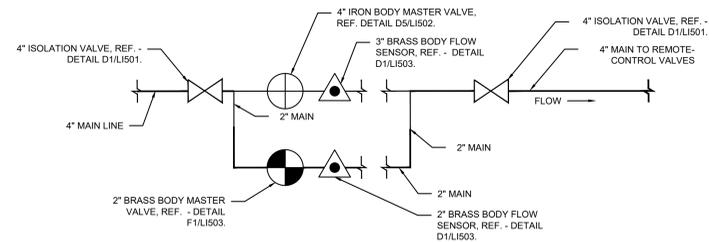


KEYED NOTES

- 1/2" THICK ALUMINUM SIGN PANEL. SEE SPECIFICATIONS FOR COLOR, COPY & FINISH.
- 1/2" DIA. HOLES TO RECEIVE SCREWS, TOP & BOTTOM, SECURE W/ (2) 3/8" Ø x 2" S.S. TAMPER-PROOF SCREWS AND EXPANSION SHIELD.
- SEE SPECIFICATION SECTION 10 14 00 FOR SYMBOL & COPY FONT.

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE DETAILS BETWEEN SIGNAGE FABRICATOR AND PRE-CAST CONCRETE MANUFACTURER TO ENSURE PROPER FIT.

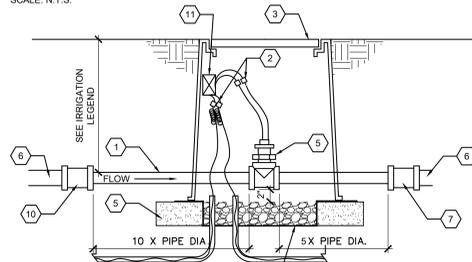


B8 MASTER VALVE/FLOW SENSOR ASSEMBLY

SCALE: N.T.S.

B1 DUCTILE IRON PIPE FITTINGS JOINT RESTRAINT

SCALE: N.T.S.



KEYED NOTES

1. PVC IRRIGATION MAINLINE. SEE PLAN.
2. WATERPROOF CONNECTIONS - SEE DETAIL D1/L1502.
3. 17"x30" VALVE BOX WITH EXTENSIONS AS REQUIRED AND "T" BOLT-DOWN COVER, SEE SPECIFICATIONS.
4. DECODER CABLE IN 1" PVC CONDUIT WITH SWEEP ELLS - SEE SPECIFICATIONS.
5. FLOW SENSOR - SEE IRRIGATION LEGEND AND SPECIFICATIONS. REF. DETAIL B8/L1503 FOR SIZE.
6. MAINLINE PIPING.
7. SIZE OR DIRECTION CHANGE AT DISTANCE EQUAL TO 5X PIPE DIAMETER FROM FLOW SENSOR.
8. 3/4" WASHED GRAVEL, 6" DEPTH.
9. 8"x8"x16" SOLID CMU BLOCK - 4 PER VALVE BOX.
10. SIZE OR DIRECTION CHANGE AT DISTANCE EQUAL TO 10X PIPE DIAMETER FROM FLOW SENSOR.
11. 2-WIRE SENSOR DECODER. SEE SPECIFICATIONS.
12. FILTER FABRIC - SEE SPECIFICATIONS.

KEYED NOTES

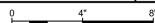
- 1/2" THICK ALUMINUM SIGN PANEL. SEE SPECIFICATIONS FOR COLOR, COPY & FINISH.
- 1/2" DIA. HOLES TO RECEIVE SCREWS, TOP & BOTTOM, SECURE W/ (2) 3/8" Ø x 2" S.S. TAMPER-PROOF SCREWS AND EXPANSION SHIELD.
- COPY SHALL BE 3/4" HEIGHT, SEE SPECIFICATIONS FOR FONT.

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE DETAILS BETWEEN SIGNAGE FABRICATOR AND PRE-CAST CONCRETE MANUFACTURER TO ENSURE PROPER FIT.

C3 FWS SIGN PANEL (DO NOT DRINK)

SCALE: 3" = 1'-0"



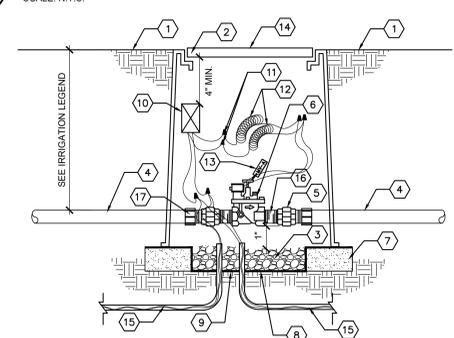
D6 FWS SIGN PANEL (DO NOT DRINK)

SCALE: 3" = 1'-0"



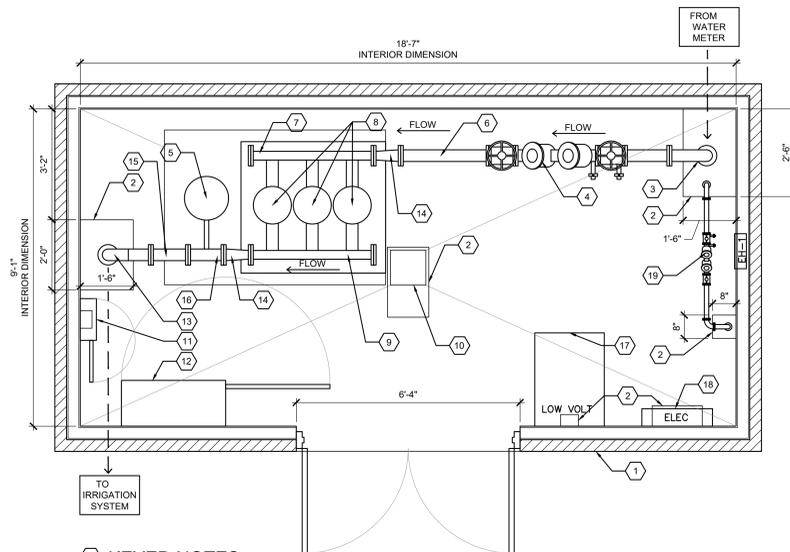
D1 FLOW SENSING ASSEMBLY

SCALE: N.T.S.



KEYED NOTES

1. FINISH GRADE.
- 17"x30" VALVE BOX WITH BOLT DOWN TEE COVER AND EXTENSIONS AS REQUIRED.
- 1" DIAMETER WASHED ROCK, 8" DEPTH.
- IRRIGATION MAIN LINE.
- SCH. 80 PVC UNION.
- MASTER VALVE - SEE IRRIGATION LEGEND.
- 8" X 8" X 16" SOLID CMU BLOCK - CONTINUOUS ALL SIDES.
- 3/4" WASHED GRAVEL, 6" DEPTH.
- FILTER FABRIC - SEE SPECIFICATIONS.
- DECODER - SEE SPECIFICATIONS.
- WATERPROOF WIRE CONNECTOR, TYP. REFERENCE D1/L1502.
- 36" WIRE EXPANSION LOOPS.
13. ATTACH VALVE ID TAG TO VALVE STEM WITH NYLON CABLE TIE (REFERENCE DETAIL B8/L1502).
- HOT BRAND OR CONICAL, BIT ROUTER LID WITH 3" TALL BY 3/16" DEEP LETTERS "MV" FOR MASTER VALVE.
- 2-WIRE DECODER CABLE IN 1" PVC CONDUIT WITH SWEEP ELLS.
- SCH. 80 PVC NIPPLE 3" LENGTH.
- SCH. 80 PVC MALE ADAPTER.



KEYED NOTES

- PRE-MANUFACTURED CONCRETE PUMP BUILDING.
- FLOOR LEAVE-OUT. REF B1/A-101 FOR FINISH OUT.
- 4" DUCTILE IRON 90° ELBOW, INTAKE CONNECTED TO MUNICIPAL WATER SOURCE.
- 4" REDUCED PRESSURE BACKFLOW PREVENTER. SEE DETAIL D6/L1503.
- 14 GAL. VERTICAL STAND PRESSURE TANK.
- 4" DUCTILE IRON SPOOL PIECE, LENGTH AS REQ'D., DISCHARGE FROM BACKFLOW ASSEMBLY.
- 3" SCH 40 STAINLESS STEEL SUCTION HEADER TO PUMPS.
- (3) VERTICAL MULTISTAGE CENTRIFUGAL PUMPS W/ INTEGRATED FREQUENCY CONVERTER MOUNTED ON SKID.
- 3" SCH 40 STAINLESS STEEL DISCHARGE HEADER FROM PUMPS.
- FLOOR DRAIN. REF B1/A-101.
- WALL MOUNTED IRRIGATION CONTROLLER.
- PUMP CONTROL PANEL.
- 4" DUCTILE IRON 90° ELBOW, DISCHARGE CONNECTED TO IRRIGATION MAIN LINE.
- 4"x3" CONCENTRIC REDUCER/FLEX CONNECTOR.
- 4" DUCTILE IRON SPOOL PIECE, LENGTH AS REQ'D., DISCHARGE TO IRRIGATION MAIN LINE.
16. 4"x4"x2" DUCTILE IRON TEE, WITH 2"x1" CONCENTRIC REDUCER/FLEX CONNECTOR. PROVIDE COUPLER/REDUCER FOR 3/4" NPTF INLET FOR PRESSURE TANK.
- LOW VOLTAGE PANEL/EQUIP. REF 5/E-101.
- MAIN ELECTRICAL PANEL. REF. 5/E-101.
- REDUCED PRESSURE BACKFLOW PREVENTER FOR DOMESTIC WATER SUPPLY.

GENERAL NOTES

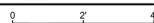
- FLOOR LEAVE-OUTS SHOWN FOR INFORMATION ONLY. REFER TO ARCH. SHEETS.
- BUILDING SHALL BE INSULATED, HEATED AND VENTED.
- BUILDING SHALL HAVE 6'-0" MIN. WIDTH LOOKABLE ACCESS DOORS.
- EQUIPMENT SIZING AND LAYOUT BASED ON SINGLE-PHASE POWER AVAILABLE AT SITE.

F1 MASTER VALVE ASSEMBLY - 2"

SCALE: N.T.S.

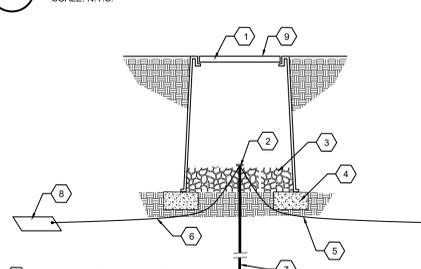
F3 PUMP HOUSE EQUIPMENT LAYOUT DETAIL

SCALE: 1/2" = 1'-0"



D6 BACKFLOW PREVENTER

SCALE: N.T.S.



KEYED NOTES

- 10" ROUND VALVE BOX WITH DROP-IN, BOLT DOWN COVER
- CALDWELL CONNECTION
- 3/2" DIAMETER WASHED GRAVEL, 4" DEPTH
- 8"x8"x16" SOLID CMU BLOCK (2 MINIMUM)
- #6-1 AWG BARE COPPER GROUND WIRE FROM CONTROLLER/LINE SURGE PROTECTOR - MIN. 10' FROM CONTROLLER/LINE SURGE PROTECTOR.
- 25 #6-1 AWG BARE COPPER WIRE (NO SHARP BENDS)
- COPPER GROUNDING ROD (5/8" X 10')
- 1/2" X 12" X 18" COPPER PLATE, BURIED 24" TO 48" DEEP.
- HOT BRAND OR CONICAL, BIT ROUTER LID WITH 3" TALL x 3/4" DEEP LETTERS "GND"

GENERAL NOTES

- PROVIDE 4" MIN CLEARANCE BETWEEN VALVE BOX LID AND HIGHEST OBJECT IN THE BOX.

F6 CONTROLLER & DECODER GROUNDING

N.T.S.

KEYED NOTES

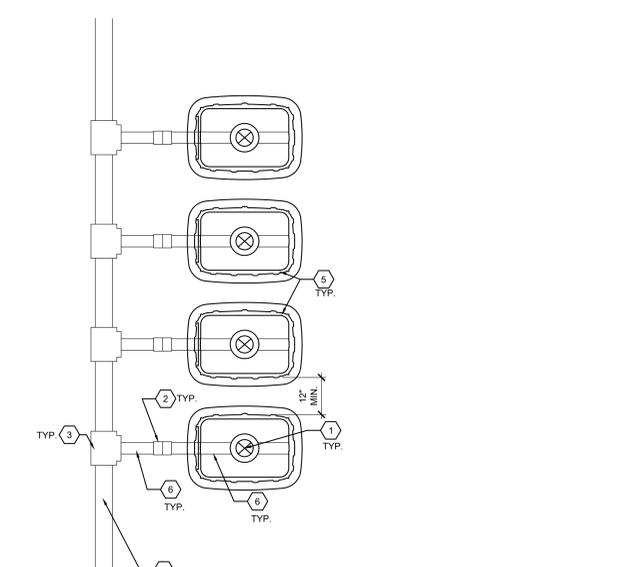
- REMOTE CONTROL VALVE ASSEMBLY SEE DETAIL F1/L1501.
- SCH 80 PVC SOLVENT WELD 45° FITTING
- DUCTILE IRON SERVICE TEE WITH JOINT RESTRAINTS - SEE DETAIL F1/L1501.
- PVC MAINLINE PIPE.
- 17"x30" VALVE BOX WITH TEE COVER.
- SCH 80 PVC SOLVENT WELD PIPE (LENGTH AS REQUIRED), SIZE TO MATCH LATERAL PIPING IMMEDIATELY DOWNSTREAM OF REMOTE CONTROL VALVE (REFERENCE IRRIGATION PLANS).

GENERAL NOTES

- WHERE VALVES ARE LOCATED IN GROUPS, SPACE VALVE BOXES A UNIFORM DISTANCE APART.
- USE MANUFACTURER'S RECOMMENDED TORQUE ON RESTRAINTS. A CALIBRATED TORQUE BAR WILL BE REQUIRED AND CALIBRATION TESTING RESULTS WILL BE AVAILABLE UPON REQUEST.

F8 VALVE BOX LAYOUT DETAIL

SCALE: N.T.S.



CD1 - REDESIGN	1/22/2021
Revisions:	Date:

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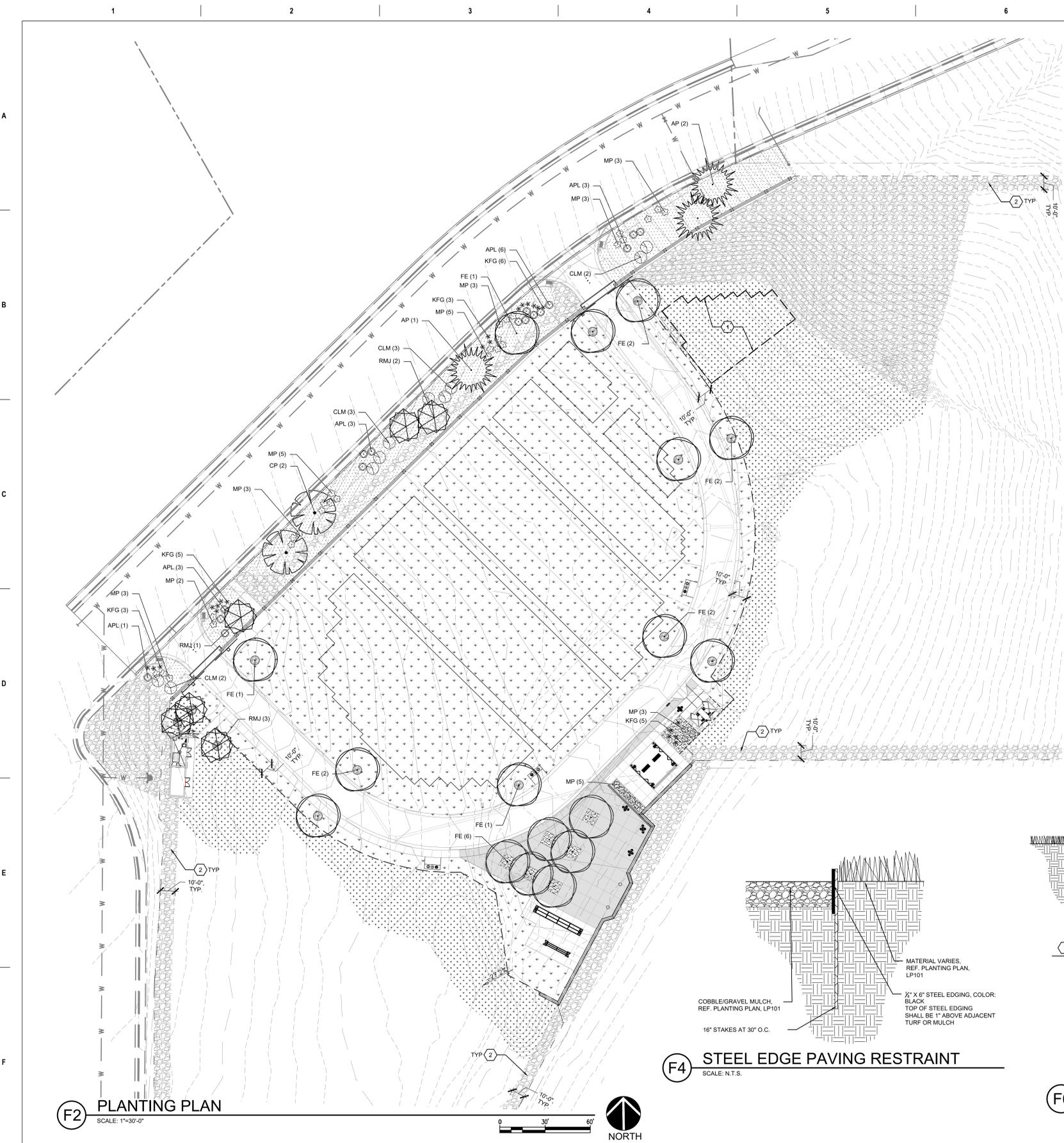
National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
IRRIGATION DETAILS 3

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
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BID DOCUMENT SUBMITTAL	
Phase BID DOCUMENTS	Project Title NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE
Location Cedar City, UT	Project Number 942CM3001
Issue Date 7/22/2022	Building Number N/A
Checked BV	Drawn JS
Drawn JS	Drawing Number L1503
	Sheet 29 of 61



F2 PLANTING PLAN
SCALE: 1"=30'-0"

F4 STEEL EDGE PAVING RESTRAINT
SCALE: N.T.S.

F6 EVERGREEN TREE PLANTING DETAIL
SCALE: N.T.S.

F8 TREE PLANTING DETAIL
SCALE: N.T.S.

PLANT LEGEND

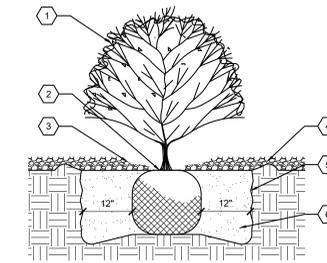
KEY	COMMON NAME	BOTANICAL NAME	QTY	INSTALLED SIZE	REMARKS	MATURE SIZE
TREES						
FE	FRONTIER ELM	ULMUS 'FRONTIER'	17	2" CAL., 10'-12" HT.	24" BOX	30' HT. X 35' SPD.
CP	CHINESE PISTACHE	PISTACHIA CHINENSIS	2	2" CAL., 10'-12" HT.	24" BOX	30' HT. X 30' SPD.
AP	AUSTRIAN PINE	PINUS NIGRA	3	8'-10' HT.	B&B	40' HT. X 30' SPD.
RMJ	ROCKY MOUNTAIN JUNIPER	JUNIPERUS SCOPIULORUM	6	8'-10' HT.	B&B	25' HT. X 20' SPD.
SHRUBS/GRASSES						
KFG	KARL FOERSTER GRASS	CALAMAGROSTIS A. 'KARL FOERSTER'	22	MIN. 12" HT.	5 GALLON	3' HT. X 2' SPD.
MP	MUGO PINE	PINUS MUGO	35	MIN. 12" HT.	5 GALLON	3' HT. X 4' SPD.
APL	APACHE PLUME	FALLUGIA PARADOXA	16	MIN. 18" HT.	5 GALLON	5' HT. X 5' SPD.
CLM	CURL LEAF MAHOGANY	CERCOCARPUS LEDIFOLIUS	10	MIN. 18" HT.	5 GALLON	10' HT. X 8' SPD.

HATCH LEGEND

- 1" GRAVEL MULCH - SEE PLANTING NOTE B.
- 2"-4" GRAVEL MULCH - SEE PLANTING NOTE C.
- 4"-8" COBBLE MULCH - SEE PLANTING NOTE D.
- TURFGRASS SOD - SEE PLANTING NOTE K.
- REVEGETATION SEEDING - SEE PLANTING NOTE M.
- 6" DIAMETER SHREDDED HARDWOOD MULCH RING - SEE PLANTING NOTE L.
- PHASE 1 TURF LIMITS, TYP.
- STEEL EDGING - SEE PLANTING NOTE N.

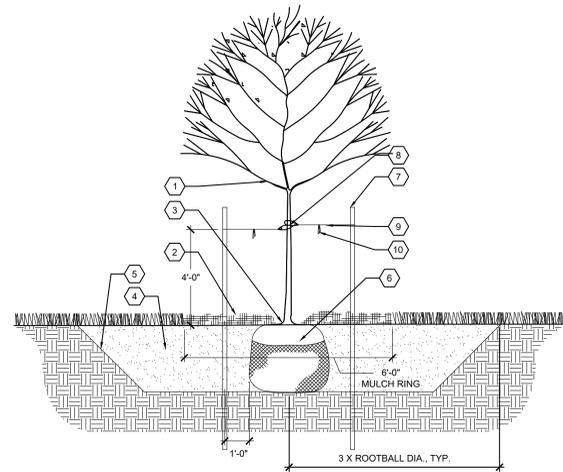
PLANTING NOTES

- A. IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LEGEND AND THOSE SHOWN ON THE PLANTING PLAN, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.
- B. GRAVEL MULCH SHALL BE 1" IN SIZE, INSTALLED AT A 4" DEPTH OVER FILTER FABRIC. SEE SPECIFICATIONS FOR COLOR & SUPPLIER. NOTE: EXISTING BOULDERS ON SITE MAY BE SUITABLE TO CRUSH, SORT INTO SPECIFIED SIZE FOR USE ON SITE IN LIEU OF PURCHASING ELSEWHERE. CONTRACTOR TO SUBMIT SAMPLES TO LANDSCAPE ARCHITECT AND COR PRIOR TO SITE DEMOLITION.
- C. GRAVEL MULCH SHALL BE 2"-4" IN SIZE, INSTALLED AT A 4" DEPTH OVER FILTER FABRIC. SEE SPECIFICATIONS FOR COLOR & SUPPLIER. NOTE: EXISTING BOULDERS ON SITE MAY BE SUITABLE TO CRUSH, SORT INTO SPECIFIED SIZE FOR USE ON SITE IN LIEU OF PURCHASING ELSEWHERE. CONTRACTOR TO SUBMIT SAMPLES TO LANDSCAPE ARCHITECT AND COR PRIOR TO SITE DEMOLITION.
- D. COBBLE MULCH SHALL BE 4"-8" IN SIZE, INSTALLED AT A 4" MINIMUM DEPTH OVER FILTER FABRIC. SEE SPECIFICATIONS FOR COLOR & SUPPLIER. NOTE: EXISTING BOULDERS ON SITE MAY BE SUITABLE TO CRUSH, SORT INTO SPECIFIED SIZE FOR USE ON SITE IN LIEU OF PURCHASING ELSEWHERE. CONTRACTOR TO SUBMIT SAMPLES TO LANDSCAPE ARCHITECT AND COR PRIOR TO SITE DEMOLITION.
- E. FILTER FABRIC SHALL BE MIN. 4 OZ. NON-WOVEN NEEDLE-PUNCHED POLYPROPYLENE. OVERLAP ENDS 3" AND TURN DOWN EDGES 6". SEE SPECIFICATIONS FOR MANUFACTURER.
- F. THE TOP OF MULCH SHALL BE 1" BELOW TOP OF ADJACENT CONCRETE SURFACES.
- G. CONTRACTOR SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES AS DIRECTED BY LANDSCAPE ARCHITECT IN THE FIELD.
- H. TREES SHALL BE INSTALLED PER DETAILS F8 & F8LP101.
- I. SHRUBS SHALL BE INSTALLED PER DETAIL D7LP101.
- J. IF THERE IS A DISCREPANCY IN THE FIELD OR NURSERY BETWEEN THE CONTAINER SIZE CALLED OUT UNDER 'REMARKS' AND HEIGHT & SPREAD CALLED OUT UNDER 'SIZE', THE SPECIFIED PLANT MUST MEET HEIGHT & SPREAD REQUIREMENTS SPECIFIED UNDER 'SIZE'. EVEN IF A LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
- K. SOD SHALL BE 90% DWARF TALL FESCUE, 10% KENTUCKY BLUE GRASS. TOP OF SOD SHALL BE INSTALLED LEVEL WITH THE TOP OF ADJACENT CONCRETE SURFACES. SEE SPECIFICATIONS FOR CULTIVARS AND RATIOS OF BLEND.
- L. TREES INSTALLED WITHIN TURF AND NATIVE SEED AREAS SHALL HAVE A 4" DEPTH OF SHREDDED WOOD MULCH WITHIN A 6" DIAMETER AREA AT THE BASE OF EACH TREE. SEE SPECIFICATIONS.
- M. REVEGETATION SEEDING SHALL CONSIST OF A BLEND OF NATIVE SEED WITH STERILE NURSE CROP TO AID IN ESTABLISHMENT. SEE SPECIFICATIONS FOR SPECIES AND RATIOS OF BLEND.
- N. STEEL EDGING TO BE INSTALLED AS INDICATED ON PLAN. REF. DETAIL F4LP101.



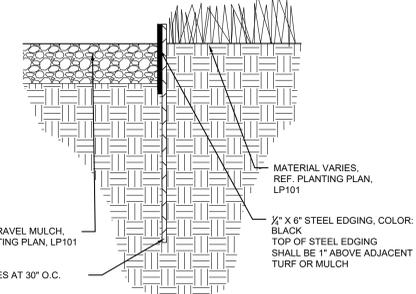
D7 SHRUB PLANTING DETAIL
SCALE: N.T.S.

1. SHRUB LOCATION AND SPECIES AS PER PLAN.
2. PLANT AT SAME DEPTH MAINTAINED AT NURSERY.
3. FEATHER MULCH TO A 2" DEPTH ON TOP OF ROOT BALL AND HOLD BACK 2" FROM SHRUB STEMS.
4. 4" DEPTH MULCH THROUGHOUT SHRUB BED UNLESS OTHERWISE NOTED.
5. SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
6. ORNAMENTAL PLANTING MIX, THOROUGHLY MIX BACKFILL AND AMENDMENTS PRIOR TO INSTALLATION - SEE SPECIFICATIONS.



F8 TREE PLANTING DETAIL
SCALE: N.T.S.

1. TREE LOCATION AND SPECIES PER PLAN.
2. 6" SHREDDED HARDWOOD MULCH RING, 4" DEPTH. MULCH SHALL BE FEATHERED TO A 2" DEPTH ON TOP OF ROOT BALL AND SHALL BE HELD BACK 2" FROM TREE TRUNK.
3. REMOVE EXISTING SOIL (FROM NURSERY) AS NEEDED TO EXPOSE ROOT FLARE. INSTALL WITH ROOT FLARE FLUSH WITH SUB-GRADE (BOTTOM OF MULCH).
4. ORNAMENTAL PLANTING MIX, THOROUGHLY MIX BACKFILL AND AMENDMENTS PRIOR TO INSTALLATION - SEE SPECIFICATIONS.
5. SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
6. REMOVE WIRE BASKET, WOOD BOX, PLASTIC TWINE, AND/OR ROPE PRIOR TO BACKFILL. REMOVE BURLAP EXCEPT FROM BOTTOM OF ROOT BALL.
7. 2" SQ. X 8" WOODEN STAKE, DRIVEN 18" INTO UNDISTURBED SOIL.
8. HOSE CHAFING GUARDS.
9. GUYING STRAPS.
10. FLAGS.

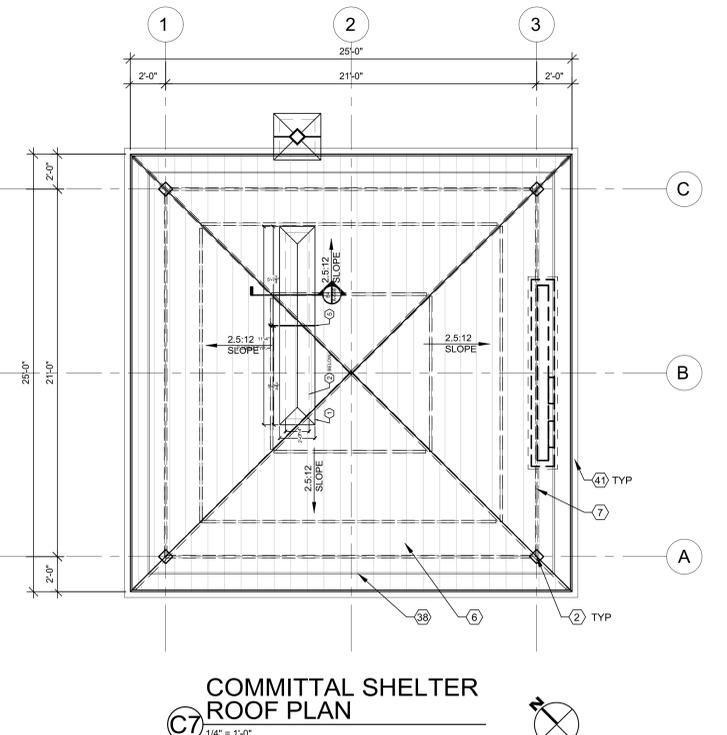
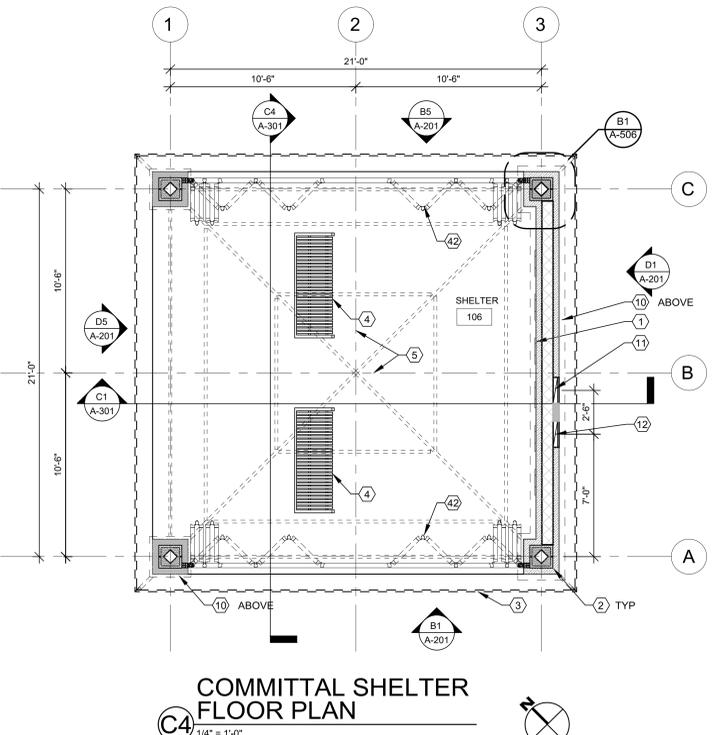
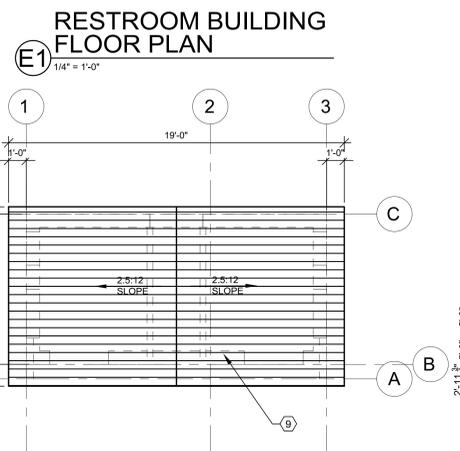
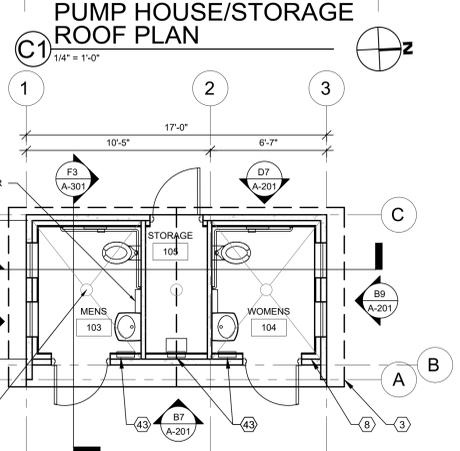
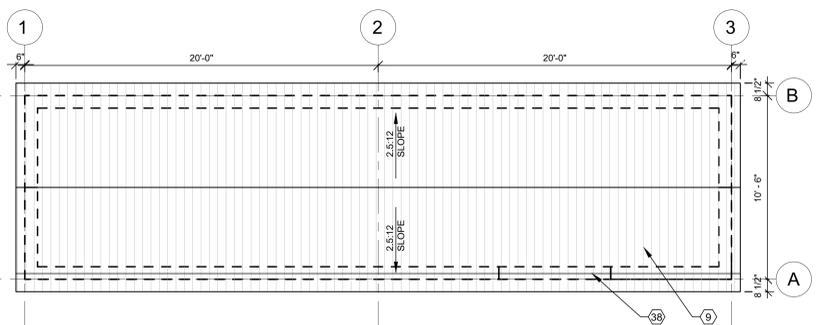
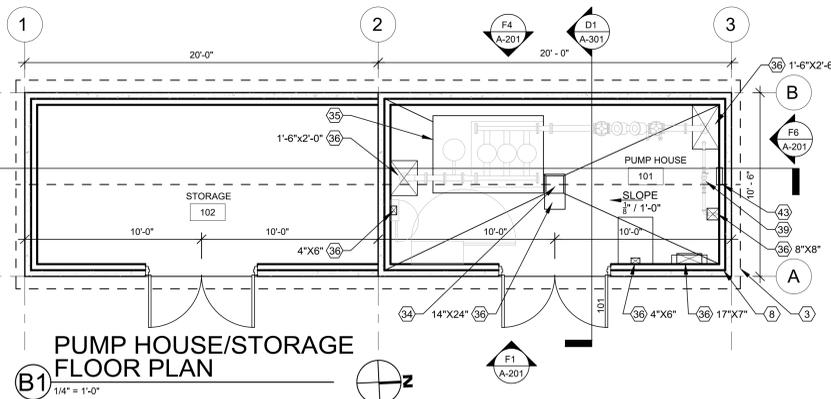


F4 STEEL EDGE PAVING RESTRAINT
SCALE: N.T.S.

- MATERIAL VARIES. REF. PLANTING PLAN, LP101.
- 1/2" X 6" STEEL EDGING, COLOR: BLACK.
- TOP OF STEEL EDGING SHALL BE 1" ABOVE ADJACENT TURF OR MULCH.
- COBBLE/GRAVEL MULCH. REF. PLANTING PLAN, LP101.
- 16" STAKES AT 30" O.C.

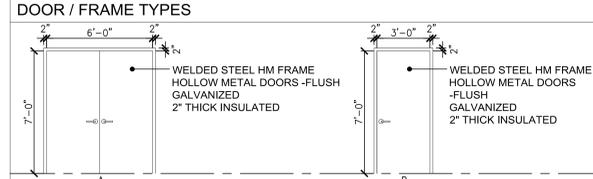
CD1 - REDESIGN Revisions:	1/22/2021 Date:	wood. Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400 mrwmla.com 505 268 2266	MRWM LANDSCAPE ARCHITECTS	ARCHITECT/ENGINEER OF RECORD VCI Project Management Construction Management Engineering 18300 East 71st Ave., Denver, CO, 80249 504.684.4408; Sean Fitzpatrick	STAMP 7/22/22	National Cemetery Administration Design and Construction Service VA U.S. Department of Veterans Affairs	Drawing Title PLANTING PLAN Approved: Project Director Steve Davis Department of Veterans Affairs, NCA Phone: 202.632.4833 Email: steve.davis@va.gov	Phase BID DOCUMENTS N/A	BID DOCUMENT SUBMITTAL	
	Project Title NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE								Project Number 942CM3001	Building Number N/A

- KEYED NOTES**
- SERVICE SEAL WALL. SEE DETAIL F3/A-506.
 - PREMANUFACTURED COLUMN WRAPPED WITH CMU AND STONE VENEER SEE DETAIL B1/A-506.
 - ROOF LINE ABOVE.
 - 6" LONG BENCHES. SEE DETAIL F1/A-513 AND SPEC SECTION 32 30 00.
 - CONCRETE CONTROL JOINTS.
 - STANDING SEAM METAL ROOF BY PREMANUFACTURED BUILDING SUPPLIER.
 - STEEL ROOF STRUCTURE BY PREMANUFACTURED BUILDING SUPPLIER.
 - CONCRETE WALLS, 2X4 FURRING W/ 1/2" PLYWOOD, INSULATED AND PAINTED BY PREMANUFACTURED BUILDING SUPPLIER.
 - CONCRETE ROOF, FURRED, INSULATED AND PAINTED BY PREMANUFACTURED BUILDING SUPPLIER.
 - STONE CAPS, SEE DETAIL B7/A-506.
 - ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS.
 - TAPS / SOUND BOX, SEE ELECTRICAL DRAWINGS.
 - COMMITTAL SHELTER, SEE C4/A-101.
 - COLUMBARIA, SEE B1/A-401.
 - MEMORIAL WALL, SEE E1/A-401.
 - AMERICAN FLAG, SEE E1/A-513.
 - POW FLAG, SEE E1/A-513.
 - KIOSK, SEE F8/A-507.
 - LOCATOR MAP, SEE C4/A-508.
 - GETTYSBURG PLAQUE, SEE E1/A-507.
 - BIVOUAC PLAQUE, SEE E4/A-507.
 - PATRIOTIC SLOGAN PLAQUE, SEE E4/A-507.
 - RETAINING WALL WITH STONE VENEER AND CUT STONE CAPS, SEE B6/A-506 AND STRUCTURAL DRAWINGS.
 - PLANTING, SEE LANDSCAPE DRAWINGS.
 - TRENCH DRAIN, SEE C-302.
 - FLOWER WATER STATION, SEE LANDSCAPE DRAWINGS.
 - CONCRETE CURB AND GUTTER, SEE CIVIL DRAWINGS.
 - ASPHALT ROADWAY, SEE CIVIL DRAWINGS.
 - CHAINLINK PRAIRIE DOG EXCLUSION FENCE, SEE F8/A-512.
 - CONCRETE ASSEMBLY AREA, SEE CIVIL SHEETS.
 - CONCRETE SIDEWALK, SEE CIVIL SHEETS.
 - FLORAL REGULATIONS SIGN, SEE C3 & F5 /A-509.
 - SITE SIGNAGE, F7/SEE A-510.
 - FLOOR DRAIN, ROCKFORD SANITARY SYSTEMS INC., SD-18 SEDIMENT SEPARATOR DRAIN OR APPROVED EQUAL.
 - 4"X4"X8"-3" CONCRETE HOUSEKEEPING SLAB W/ #4 @ 18" O.C. BY G.C. PINNED TO CONCRETE FLOOR, G.C. TO VERIFY SIZE AND LOCATION WITH PUMP MANUFACTURER.
 - BLOCKOUTS IN CONCRETE FLOOR OR WALLS FOR UTILITIES. SEE PLAN FOR SIZES. G.C. TO PROVIDE 1/2" EXPANSION MATERIAL AROUND PIPES AND CONDUITS AND FILL REMAINING HOLES WITH GROUT. FINISH TO MATCH EXISTING MATERIALS.
 - CARRY THE LOAD PLAQUE AND POST PROVIDED BY THE NCA AND INSTALLED BY THE CONTRACTOR, SEE C9/A-507.
 - COLORGARD S-5 SNOW RETENTION SYSTEM. COLOR TO MATCH ROOFING.
 - CITY APPROVED 1 1/2" DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY.
 - RESTROOM BUILDING - PREMANUFACTURED.
 - PREFINISHED ALUMINUM GUTTER, W/ DOWNSPOUTS EACH CORNER. DAYLIGHT THROUGH RETAINING WALL WITH 4" PVC FOLDING ALUMINUM / GLASS WALL.
 - ELECTRIC HEATER PER PREMANUFACTURED BUILDING MANUFACTURER.



DOOR SCHEDULE (SEE A-101 FOR LOCATIONS)

DOOR #	LOCATION	DOOR	SIZE	MAT	GLASS	ELEV	MAT	HEAD	JAMB	THLD	HWDR	FIRE
			T" X W" X H"								GR	RTG
101	PUMP HOUSE	A	2 X 72 X 84	HM	-	A	HM	-	-	-	-	HW-1
102	STORAGE	A	2 X 72 X 84	HM	-	A	HM	-	-	-	-	HW-1
103	MENS TOILET	B	2 X 36 X 84	HM	-	B	HM	-	-	-	-	HW-1
104	WOMENS TOILET	B	2 X 36 X 84	HM	-	B	HM	-	-	-	-	HW-1
105	TOILET STORAGE ROOM	B	2 X 36 X 84	HM	-	B	HM	-	-	-	-	HW-1
106-2	COMMITTAL SHELTER	B7/A-201	13'19" X 8'-7 3/4"	AL	-	AL	-	-	-	-	-	HW-1



DOOR AND WINDOW GENERAL NOTES

- CENTER DOOR PULL HARDWARE AT 36" A.F.F., ALL DOORS TYPICAL.
- ALL HARDWARE FASTENERS & SCRES TO MATCH FINISH OF HARDWARE ITEM. TYPICAL ALL ITEMS.
- ALL DOORSTOPS SHALL BE FLOOR MOUNTED. FINISH TO MATCH DOOR HARDWARE.
- CONTRACTOR TO FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION.

LEGEND

AL - ALUMINUM
HM - HOLLOW METAL
ELEV - ELEVATION
THLD - THRESHOLD
HWDR - HARDWARE
RTG - RATING

DOOR HARDWARE GROUPS

SEE SPECIFICATIONS SECTION 10 73 47 FOR DOOR HARDWARE GROUPS AND REQUIREMENTS

ROOM FINISH SCHEDULE (SEE SHEET A-101 FOR LOCATIONS)

ROOM NUMBER	ROOM IDENTIFICATION	FLOOR	BASE	WALLS				CEILING	
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT
101	PUMP HOUSE	S	4V	P	P	P	P	P	V
102	STORAGE	S	4V	P	P	P	P	P	V
103	MENS TOILET	S	4V	FRP	FRP	FRP	FRP	P	V
104	WOMENS TOILET	S	4V	FRP	FRP	FRP	FRP	P	V
106	COMMITTAL SHELTER	S	N	-	-	ST	-	T&G	V

LEGEND:
S - SEALED CONCRETE
FRP - PEBBLE TEXTURE FIBER REINFORCED PANELS ON 1/2" PLYWOOD
4V - 4" VINYL BASE
P - PAINTED PLYWOOD
T&G - PREFINISHED 2X6 TONGUE & GROOVE

BID DOCUMENT SUBMITTAL

Project Title	NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE	Project Number	942CM3001
Location	Cedar City, UT	Building Number	N/A
Issue Date	7/22/2022	Drawing Number	A-101
Checked	TM	Drawn	SF
Phase		BID DOCUMENTS	
N/A		Sheet 31 of 61	

CD1 - REDESIGN

Revisions:

1/22/2021	Date:
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ARCHITECT/ENGINEER OF RECORD

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504.684.4408; Sean Fitzpatrick

STAMP

Professional Engineer Seal for Steve Davis, State of Utah, License No. 990104365, dated 7/22/22.

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
FLOOR & ROOF PLANS AND PLAZA LAYOUT

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Phase
BID DOCUMENTS

N/A

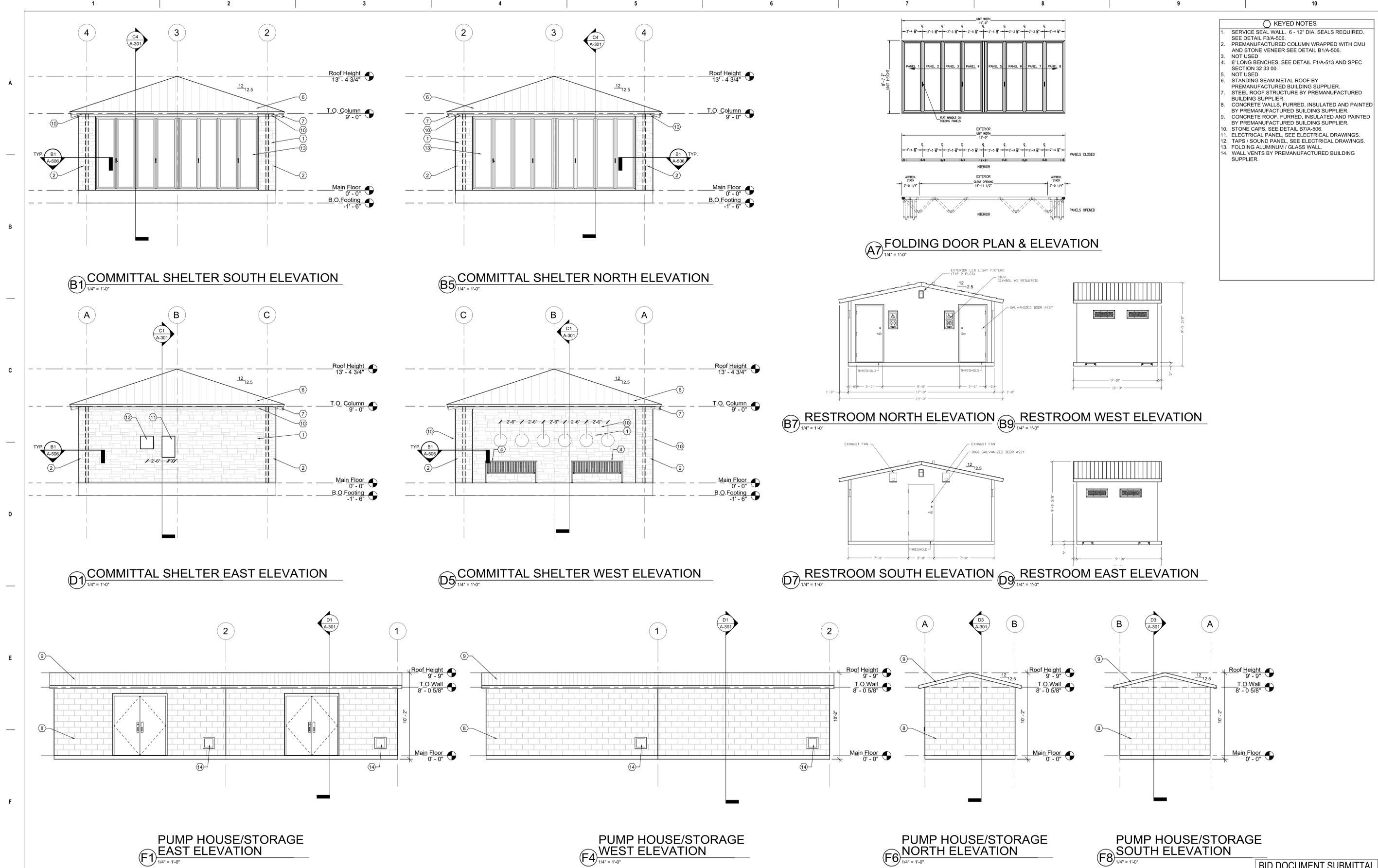
Project Title
NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE

Location
Cedar City, UT

Issue Date
7/22/2022

Checked
TM

Drawn
SF



- KEYED NOTES**
- SERVICE SEAL WALL. 6 - 12" DIA. SEALS REQUIRED. SEE DETAIL F3/A-506.
 - PREMANUFACTURED COLUMN WRAPPED WITH CMU AND STONE VENEER SEE DETAIL B1/A-506.
 - NOT USED
 - 6" LONG BENCHES, SEE DETAIL F1/A-513 AND SPEC SECTION 32.33.00.
 - NOT USED
 - STANDING SEAM METAL ROOF BY PREMANUFACTURED BUILDING SUPPLIER.
 - STEEL ROOF STRUCTURE BY PREMANUFACTURED BUILDING SUPPLIER.
 - CONCRETE WALLS, FURRED, INSULATED AND PAINTED BY PREMANUFACTURED BUILDING SUPPLIER.
 - CONCRETE ROOF, FURRED, INSULATED AND PAINTED BY PREMANUFACTURED BUILDING SUPPLIER.
 - STONE CAPS, SEE DETAIL B7/A-506.
 - ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS.
 - TAPS / SOUND PANEL, SEE ELECTRICAL DRAWINGS.
 - FOLDING ALUMINUM / GLASS WALL.
 - WALL VENTS BY PREMANUFACTURED BUILDING SUPPLIER.

A7 FOLDING DOOR PLAN & ELEVATION
1/4" = 1'-0"

B7 RESTROOM NORTH ELEVATION **B9 RESTROOM WEST ELEVATION**
1/4" = 1'-0"

D7 RESTROOM SOUTH ELEVATION **D9 RESTROOM EAST ELEVATION**
1/4" = 1'-0"

F1 PUMP HOUSE/STORAGE EAST ELEVATION
1/4" = 1'-0"

F4 PUMP HOUSE/STORAGE WEST ELEVATION
1/4" = 1'-0"

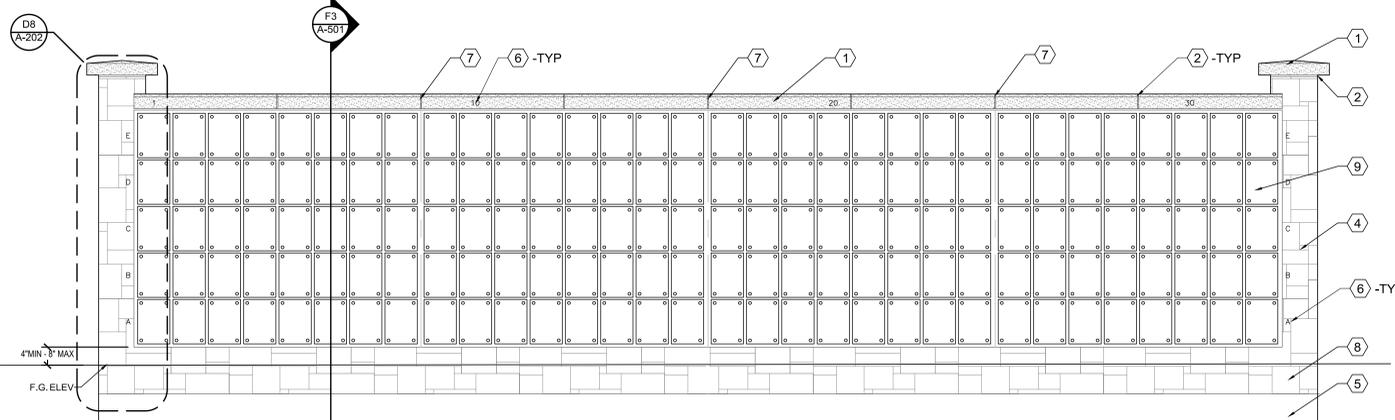
F6 PUMP HOUSE/STORAGE NORTH ELEVATION
1/4" = 1'-0"

F8 PUMP HOUSE/STORAGE SOUTH ELEVATION
1/4" = 1'-0"

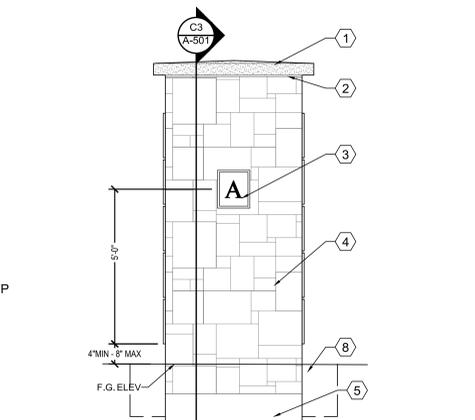
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CD1 - REDESIGN Revisions:	1/22/2021 Date:	CONSULTANT Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400 mrwmla.com 505 268 2266	ARCHITECT/ENGINEER OF RECORD VCI Project Management Construction Management Engineering 18300 East 71st Ave., Denver, CO, 80249 504.684.4408; Sean Fitzpatrick	STAMP 	National Cemetery Administration Design and Construction Service U.S. Department of Veterans Affairs	Drawing Title EXTERIOR ELEVATIONS Approved: Project Director Steve Davis Department of Veterans Affairs, NCA Phone: 202.632.4833 Email: steve.davis@va.gov	Phase BID DOCUMENTS N/A	Project Title NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE	Project Number 942CM3001 Building Number N/A Drawing Number A-201

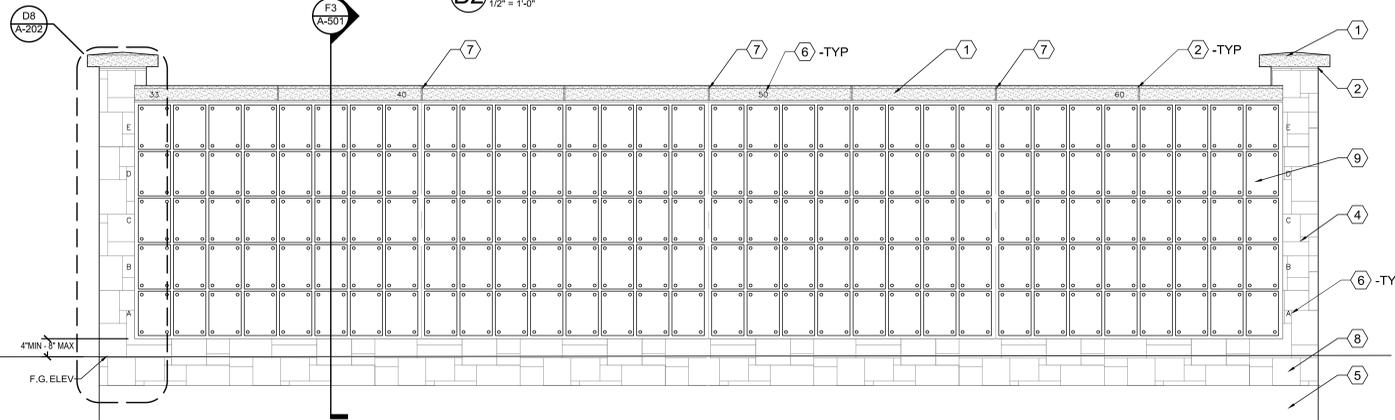
- KEYED NOTES**
- CUT STONE CAP. SEE DETAILS ON A-401.
 - ALL JOINTS TO BE FILLED WITH BACKER ROD AND SEALANT, TYP. SEE DETAILS ON A-401.
 - ETCHED STONE NUMBERS & LETTERS. SEE DETAILS D4 & F4/A-401.
 - STONE VENEER W/ STAINLESS STEEL ANCHORS, SET STONE SO THAT NO JOINTS ARE UNDER LETTERING. SEE SHEETS A-401 & A-506.
 - CONCRETE FOUNDATION, WALL OR FOOTING. SEE STRUCTURAL DRAWINGS.
 - ALUMINUM LETTERING (VERTICALLY) AND NUMBERING (ON THE CAP). SEE DETAIL F6/A-401.
 - ALL CAP JOINTS TO ALIGN WITH PRECAST UNIT JOINTS, TYP.
 - GRAVEL STRIP. SEE DETAIL F8/A-501.
 - MARBLE NICHE COVERS & HARDWARE. SEE SHEET A-504.
 - MARBLE MEMORIAL PLAQUES & HARDWARE. SEE SHEET A-502 & A-503.



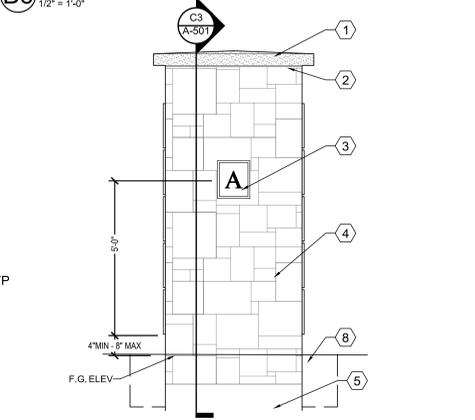
B2 COLUMBARIUM NORTH ELEVATION
1/2" = 1'-0"



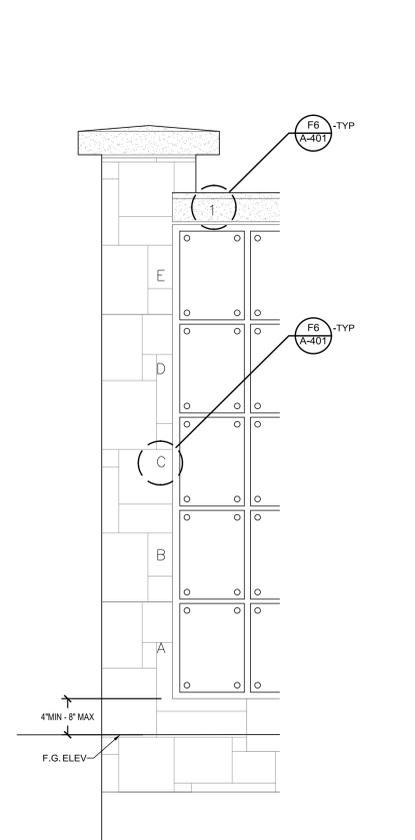
B6 COLUMBARIUM EAST ELEVATION
1/2" = 1'-0"



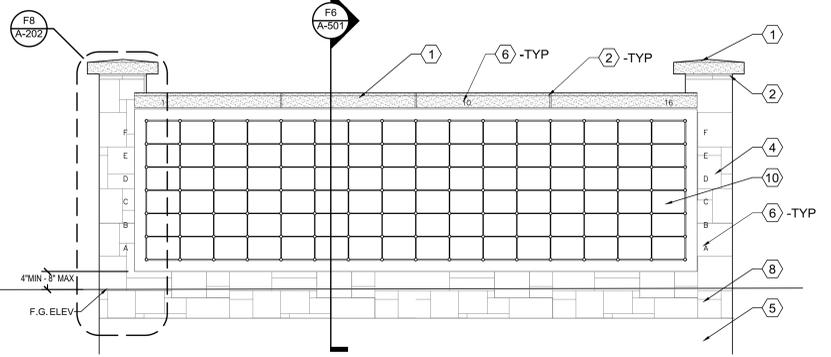
D2 COLUMBARIUM SOUTH ELEVATION
1/2" = 1'-0"



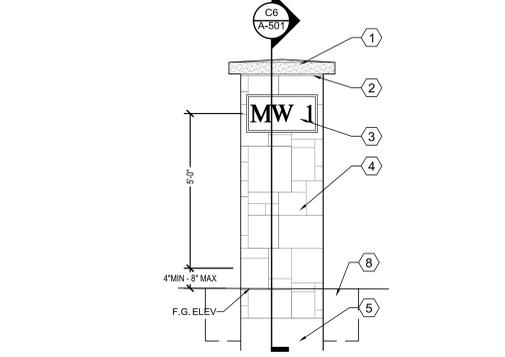
D6 COLUMBARIUM WEST ELEVATION
1/2" = 1'-0"



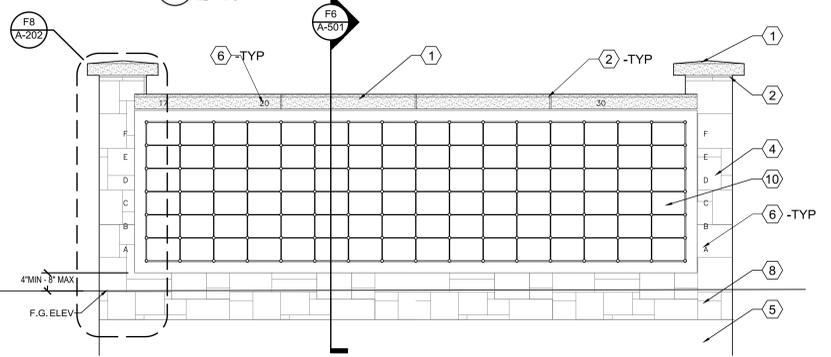
D8 COLUMBARIUM ROW AND COLUMN IDENTIFICATION
1" = 1'-0"



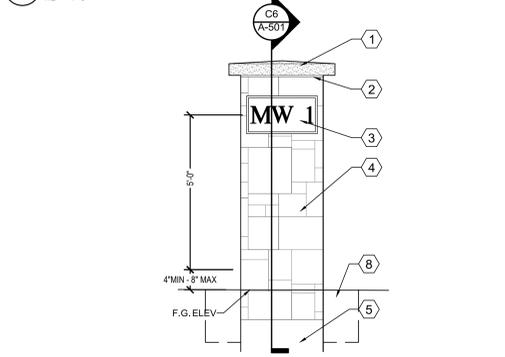
E1 MEMORIAL WALL NORTH ELEVATION
1/2" = 1'-0"



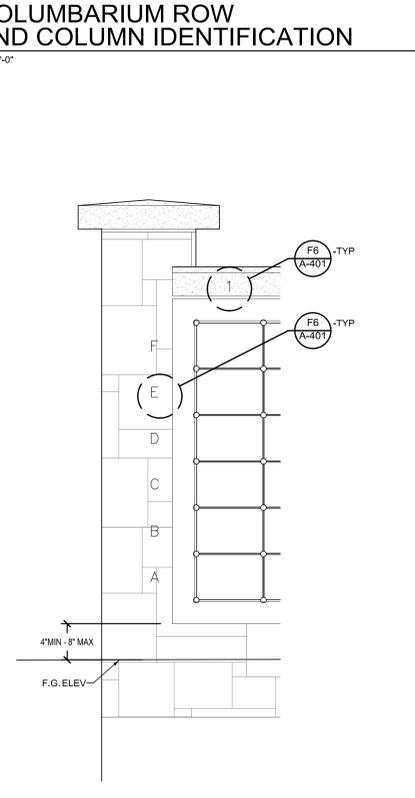
E4 MEMORIAL WALL EAST ELEVATION
1/2" = 1'-0"



F1 MEMORIAL WALL SOUTH ELEVATION
1/2" = 1'-0"



F4 MEMORIAL WALL WEST ELEVATION
1/2" = 1'-0"



F8 MEMORIAL WALL ROW AND COLUMN IDENTIFICATION
1" = 1'-0"

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COLORADO LICENSED ARCHITECT
104043665
7/22/22

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
COLUMBARIUM & MEMORIAL WALL ELEVATIONS

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
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Phase
BID DOCUMENTS

N/A

Project Title
NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE

Location
Cedar City, UT

Issue Date
7/22/2022

Checked
Drawn

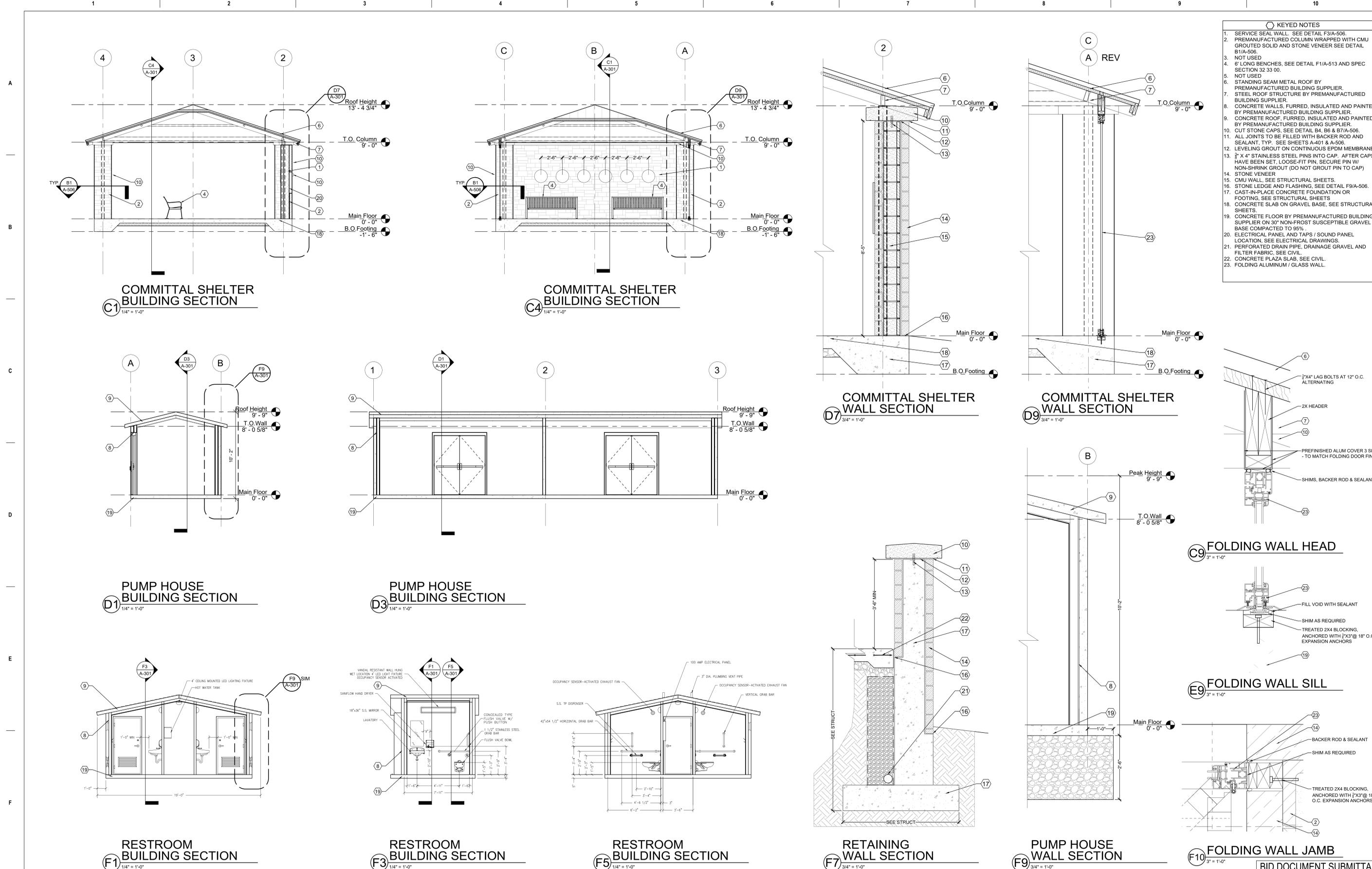
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Project Number
942CM3001

Building Number
N/A

Drawing Number
A-202

Sheet 33 of 61



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504.684.4408; Sean Fitzpatrick

STAMP

Professional Engineer Seal for Sean Fitzpatrick, State of Colorado, License No. 104043685, dated 7/22/22.

National Cemetery Administration Design and Construction Service

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING & WALL SECTIONS

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
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Email: steve.davis@va.gov

Phase
BID DOCUMENTS

N/A

Project Title
NATIONAL CEMETERY DEVELOPMENT
CEDAR CITY RURAL INITIATIVE

Location
Cedar City, UT

Issue Date
7/22/2022

Checked
TM

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SF

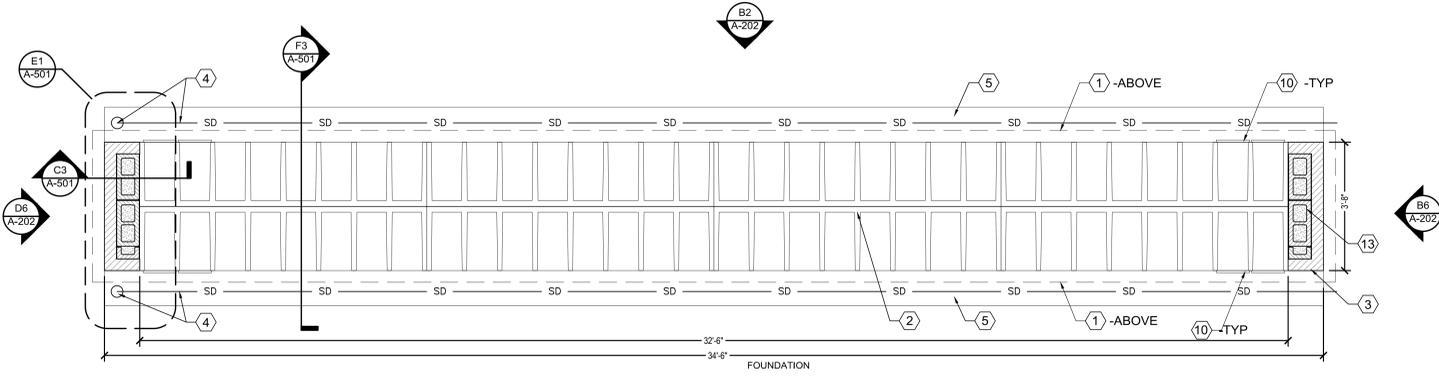
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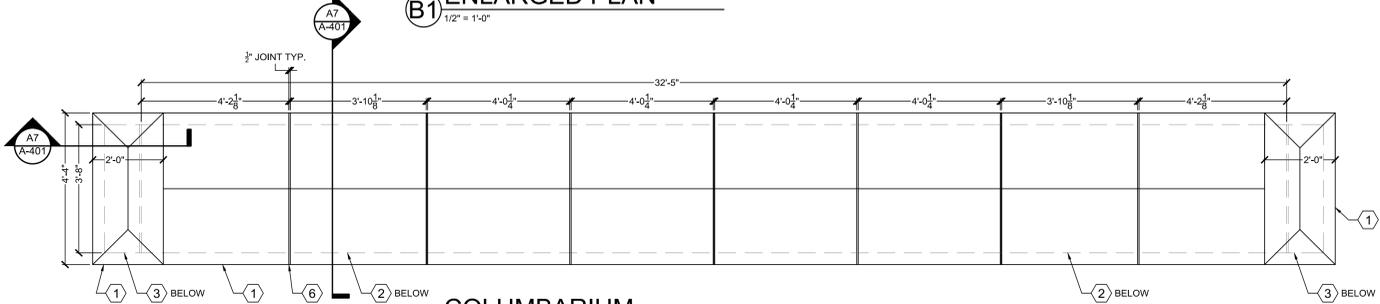
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Drawing Number
A-301

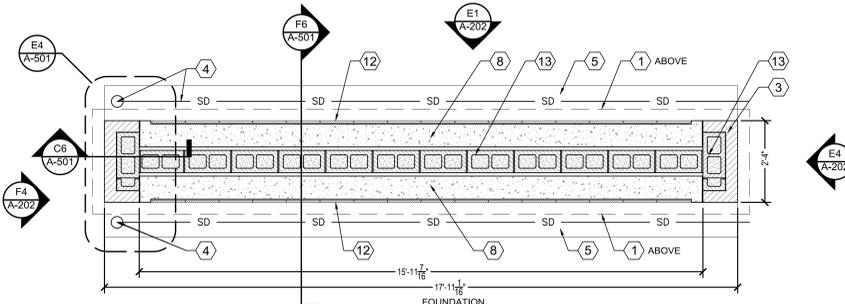
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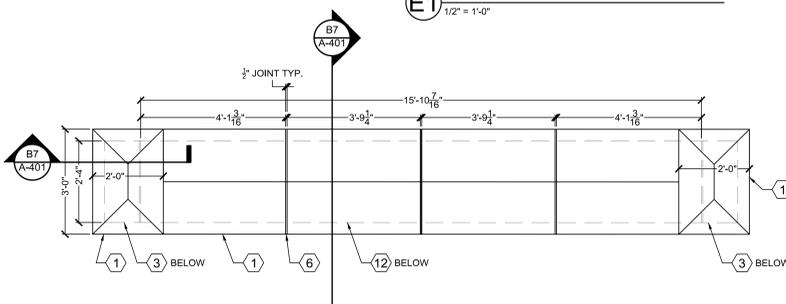
COLUMBARIUM ENLARGED PLAN
B1 1/2" = 1'-0"



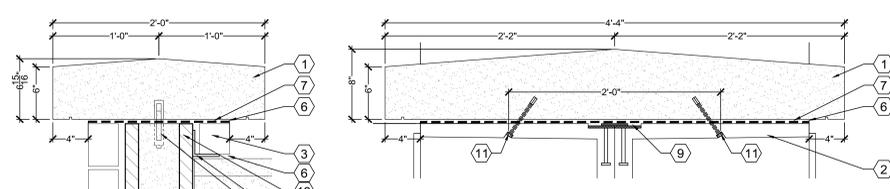
COLUMBARIUM CAP PLAN
C1 1/2" = 1'-0"



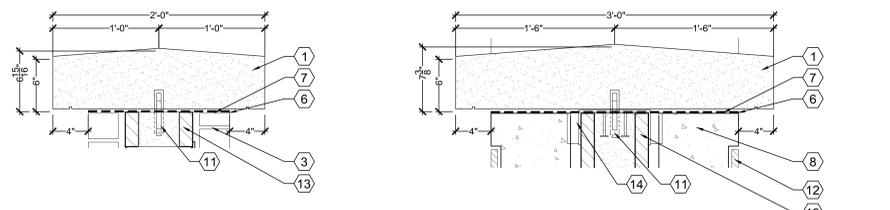
MEMORIAL WALL ENLARGED PLAN
E1 1/2" = 1'-0"



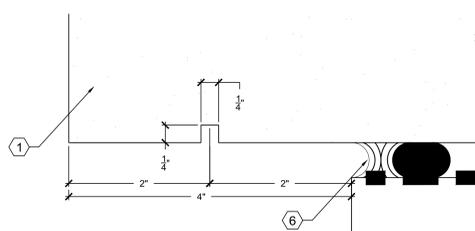
MEMORIAL WALL CAP PLAN
F1 1/2" = 1'-0"



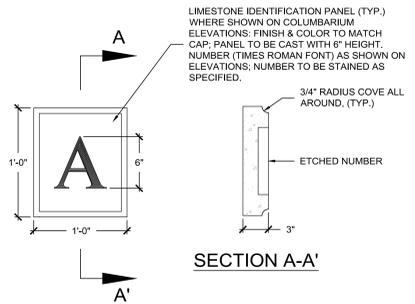
COLUMBARIUM STONE CAP SECTIONS
A7 1 1/2" = 1'-0"



MEMORIAL WALL STONE CAP SECTIONS
B7 1 1/2" = 1'-0"

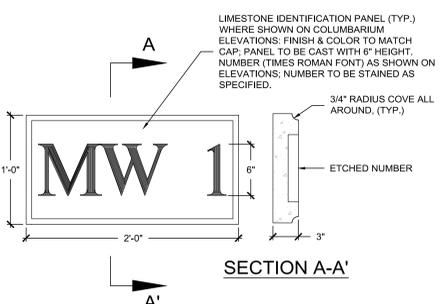


STONE CAP DRIP DETAIL
C8 1" = 1"



NOTE:
1. COORDINATE WITH THE CEMETERY ON PLACEMENT AND TEXT FOR EACH IDENTIFICATION PANEL.

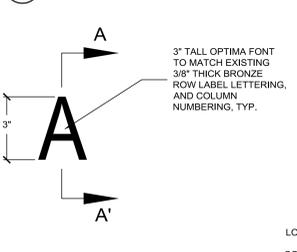
COLUMBARIUM ID PANEL
D4 NTS



NOTE:
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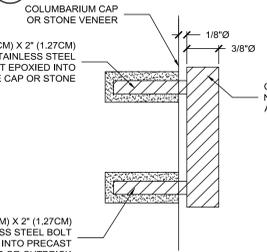
MEMORIAL WALL ID PANEL
F4 NTS

CONC TO CONC JOINT DETAIL
E6 6" = 1'-0"



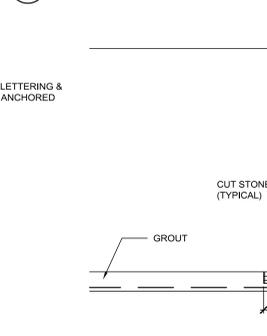
ELEVATION
NOTE:
CAST BRONZE LETTERS AND NUMBERING SHALL BE BRUSHED SATIN FINISH. STAINLESS STEEL STUDS SHALL BE USED.

STONE TO STONE JOINT DETAIL
E7 6" = 1'-0"



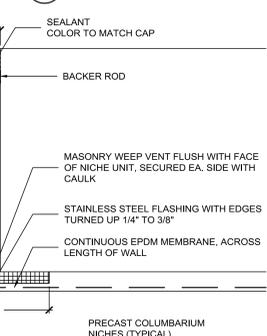
SECTION A-A'
N.T.S.

CONC TO CONC JOINT DETAIL
E8 6" = 1'-0"



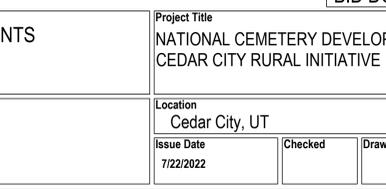
SECTION A-A'
N.T.S.

STONE TO CAP JOINT DETAIL
E9 6" = 1'-0"



SECTION A-A'
N.T.S.

STONE CAP JOINT DETAIL
F9 6" = 1'-0"



BID DOCUMENT SUBMITTAL

Project Title	NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE	Project Number	942CM3001
Location	Cedar City, UT	Building Number	N/A
Issue Date	7/22/2022	Drawing Number	A-401
Checked		Drawn	
		Sheet	35 of 61

LEGEND AND SYMBOLS

- SD UNDERDRAIN SYSTEM, SEE CIVIL SHEETS
- CONCRETE
- STONE VENEER
- STONE CAP
- CMU

- KEYED NOTES**
- CUT STONE CAP.
 - PRECAST CONCRETE NICHE UNIT, SEE A-504 & A-505.
 - STONE VENEER W/ STAINLESS 304 STEEL ANCHORS.
 - UNDERDRAIN SYSTEM, SEE CIVIL SHEETS.
 - 12" WIDE DECORATIVE GRAVEL AND DRAINAGE STRIP, WITH 6" MIN. 3/8" TO 3/4" DECORATIVE WASHED AGGREGATE, SEE F8/A-501.
 - ALL JOINTS TO BE FILLED WITH BACKER ROD AND SEALANT.
 - LEVELING GROUT ON CONTINUOUS EPDM MEMBRANE.
 - MEMORIAL WALL PRECAST CONCRETE.
 - RECESSED STAINLESS STEEL WELD PLATE AT END OF BACK TO BACK PRECAST UNIT, SEE A-505.
 - GRANITE NICHE COVER, SUPPLIED BY GOVERNMENT AND INSTALLED BY CONTRACTOR, SEE A-504.
 - 3/8" X 4" STAINLESS STEEL EXPANSION ANCHORS INTO CAP AT NICHE UNITS. USE PINS INTO THE TOP OF CMU OR CONCRETE WALLS AND SECURE PIN W/ NON-SHRINK GROUT.
 - MEMORIAL WALL PLAQUES, SUPPLIED BY GOVERNMENT AND INSTALLED BY CONTRACTOR, SEE A-502.
 - CMU WALL SEE STRUCTURAL SHEETS.
 - RECESSED STAINLESS STEEL NICHE STUD ANCHOR BY PRECAST MANUFACTURER AND 2"x2"x1/2" STAINLESS STEEL CONTINUOUS ANGLE IRON W/ STUDS @ 18" O.C. GROUTED IN CMU WALL.

CD1 - REDESIGN	1/22/2021
Revisions:	Date:

CONSULTANT

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Environment & Infrastructure Solutions, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
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MRWM
LANDSCAPE ARCHITECTS

ARCHITECT/ENGINEER OF RECORD

VCI Project Management
Construction Management
Engineering
18300 East 71st Ave., Denver, CO, 80249
504.684.4408; Sean Fitzpatrick

STAMP

Professional Engineer
7/22/22

National Cemetery Administration Design and Construction Service

U.S. Department of Veterans Affairs

Drawing Title
COLUMBARIUM & MEMORIAL WALL ENLARGED PLANS, CAPS & DETAILS

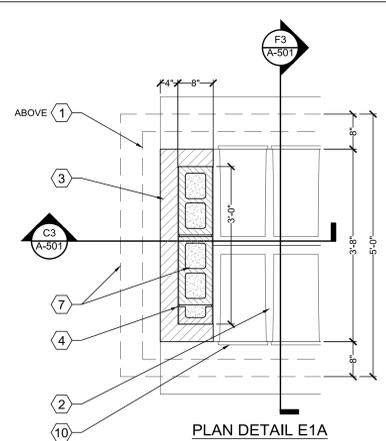
Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Phase
BID DOCUMENTS

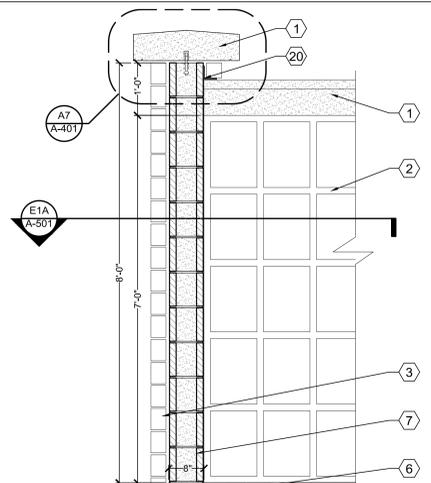
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LEGEND AND SYMBOLS	
	UNDERDRAIN SYSTEM, SEE CIVIL SHEETS
	CONCRETE
	STONE CAP
	STONE VENEER
	CMU

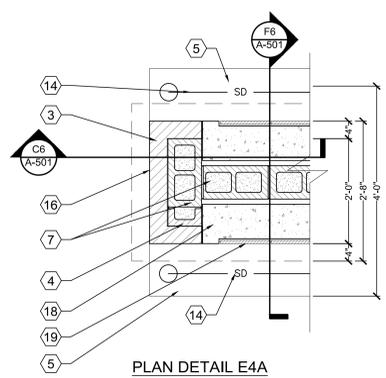
- KEYED NOTES**
- CUT STONE CAP.
 - PRECAST CONCRETE NICHE UNIT, SEE A-504 & A-505.
 - STONE VENEER W/ STAINLESS STEEL ANCHORS.
 - STONE STAINLESS STEEL VENEER ANCHOR.
 - 12" WIDE DECORATIVE GRAVEL AND DRAINAGE STRIP, SEE F8/A-501 1/2" BELOW CONCRETE SLAB.
 - 12" EXPOSED STONE AT FACE OF COLUMBARIUM WALL.
 - CAST-IN-PLACE CONCRETE FOUNDATION, CMU OR FOOTING SEE STRUCTURAL SHEETS.
 - CONCRETE PAVING, SEE CIVIL SHEETS.
 - RECESSED STAINLESS STEEL WELD PLATE AT END OF BACK TO BACK PRECAST UNIT, SEE A-505.
 - MARBLE NICHE COVER, SUPPLIED BY THE VA AND INSTALLED BY CONTRACTOR, SEE A-504.
 - 1/2" X 4" STAINLESS STEEL PINS INTO CAP. AFTER CAPS HAVE BEEN SET, LOOSE-FIT PIN, SECURE PIN W/ NON-SHRINK GROUT (DO NOT GROUT PIN TO CAP).
 - 6" MIN., 3/8" TO 3/4" DECORATIVE WASHED AGGREGATE, NON-WOVEN FILTER FABRIC.
 - UNDERDRAIN SYSTEM, SEE DETAIL F8/A-501 & C302.
 - NOT USED.
 - STONE LEDGE.
 - 1/2" X 7" STAINLESS STEEL ANCHOR BOLT RECESSED BELOW FLOOR, SEAL W/ GROUT.
 - MEMORIAL WALL PRECAST CONCRETE.
 - MEMORIAL WALL PLAQUES, SUPPLIED BY THE VA AND INSTALLED BY THE CONTRACTOR.
 - 1/2" X 3" X 3" STAINLESS STEEL ANGLE LINTEL W/ 1/2" X 4" @ 12" O.C. EXPANSION ANCHORS.



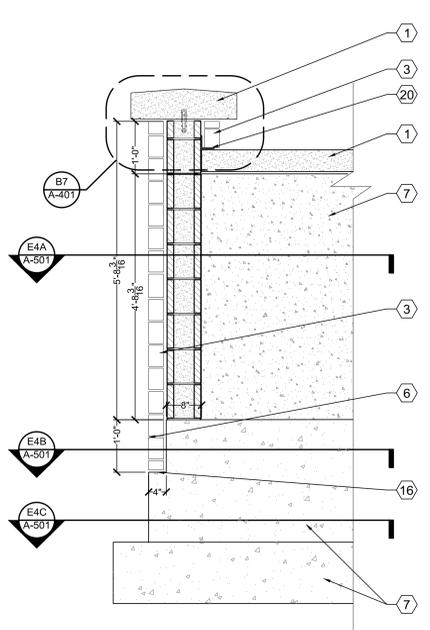
PLAN DETAIL E1A



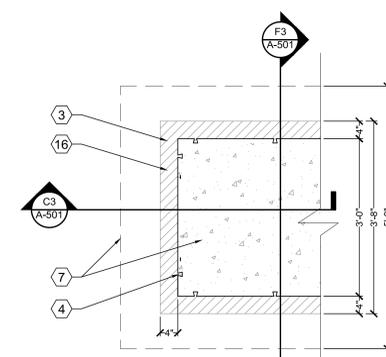
COLUMBARIUM FOUNDATION END CAP
C3 3/4" x 1'-0"



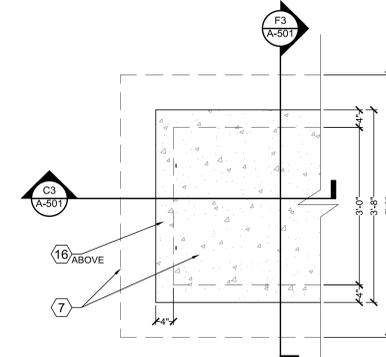
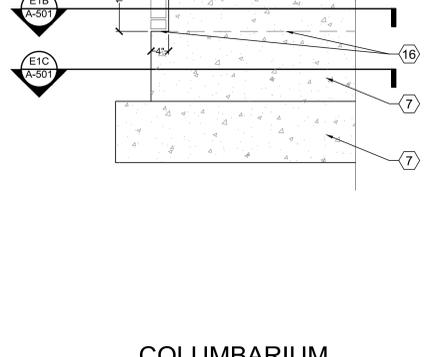
PLAN DETAIL E4A



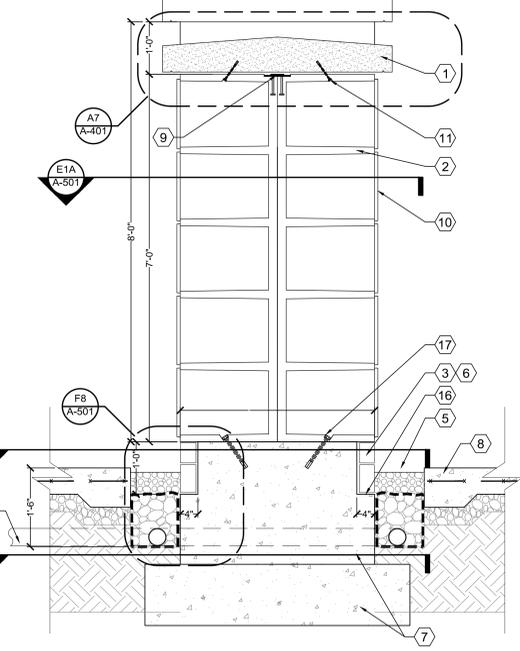
MEMORIAL WALL FOUNDATION END CAP
C6 3/4" x 1'-0"



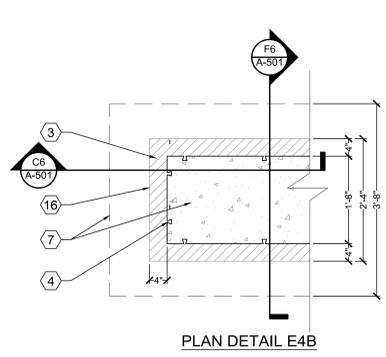
PLAN DETAIL E1B



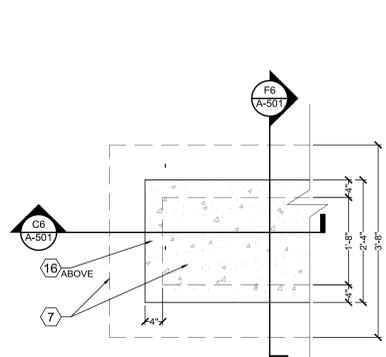
PLAN DETAIL E1C



F3 COLUMBARIUM SECTION
3/4" x 1'-0"

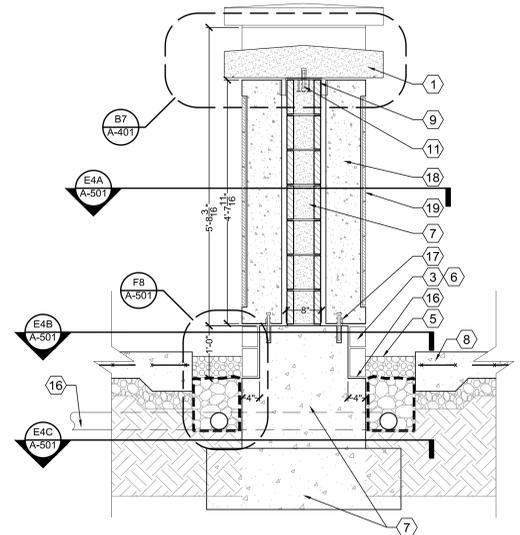


PLAN DETAIL E4B

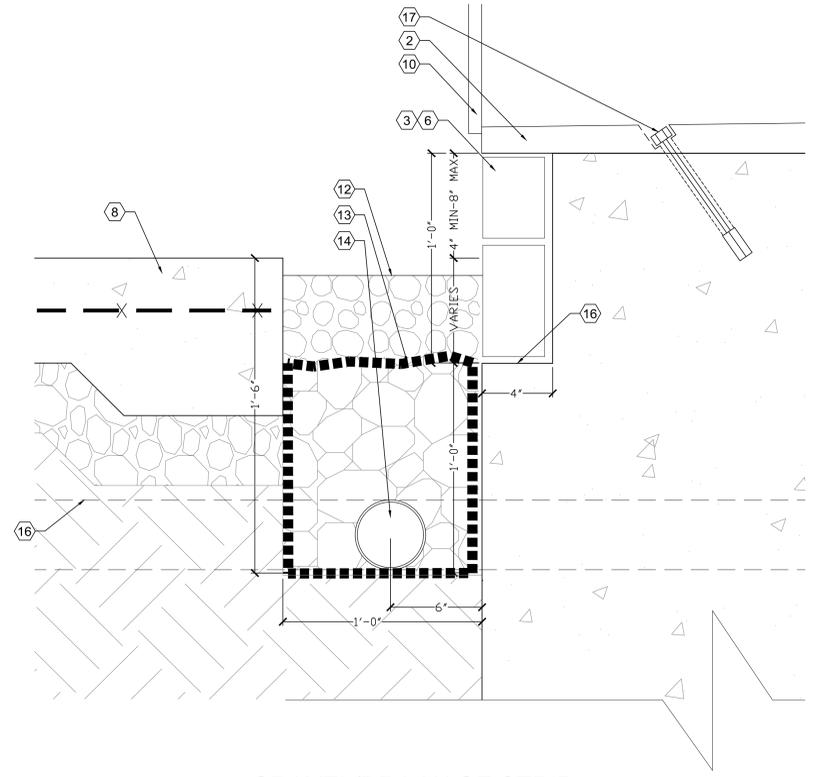


PLAN DETAIL E4C

MEMORIAL WALL FOUNDATION PLAN DETAIL
E4 3/4" x 1'-0"



F6 MEMORIAL WALL SECTION
3/4" x 1'-0"



F8 GRAVEL/DRAINAGE STRIP
3" x 1'-0"

CD1 - REDESIGN	1/22/2021
Revisions:	Date:

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18300 East 71st Ave., Denver, CO, 80249
504.684.4408; Sean Fitzpatrick

STAMP

Professional Engineer
7/22/22

National Cemetery
Administration
Design and
Construction
Service
VA U.S. Department
of Veterans Affairs

Drawing Title
**COLUMBARIUM AND MEMORIAL
WALL SECTIONS**

Approved: Project Director
Steve Davis
Department of Veterans Affairs, NCA
Phone: 202.632.4833
Email: steve.davis@va.gov

Phase
BID DOCUMENTS

N/A

Project Title
NATIONAL CEMETERY DEVELOPMENT
CEDAR CITY RURAL INITIATIVE

Location
Cedar City, UT

Issue Date
7/22/2022

Checked
Drawn

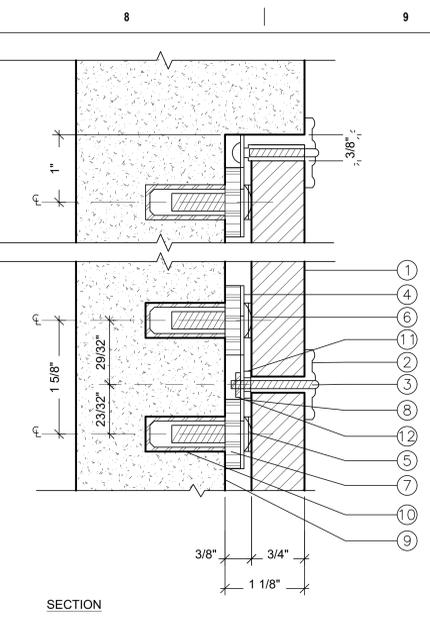
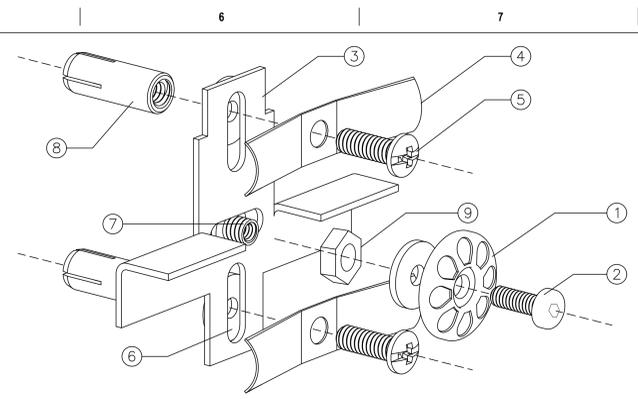
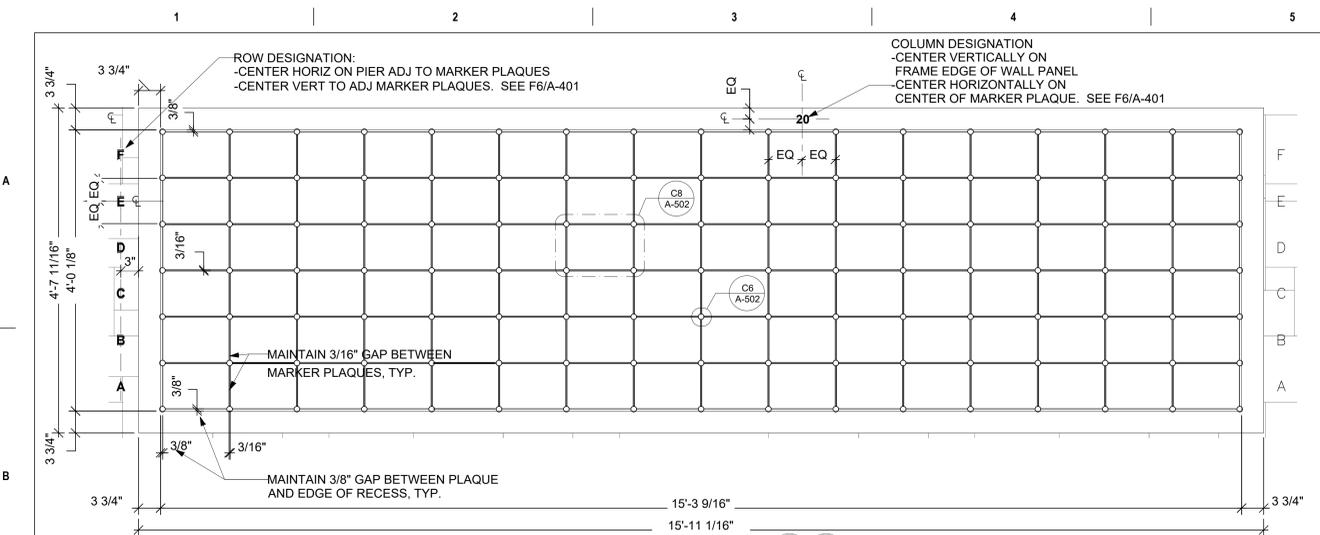
BID DOCUMENT SUBMITTAL

Project Number
942CM3001

Building Number
N/A

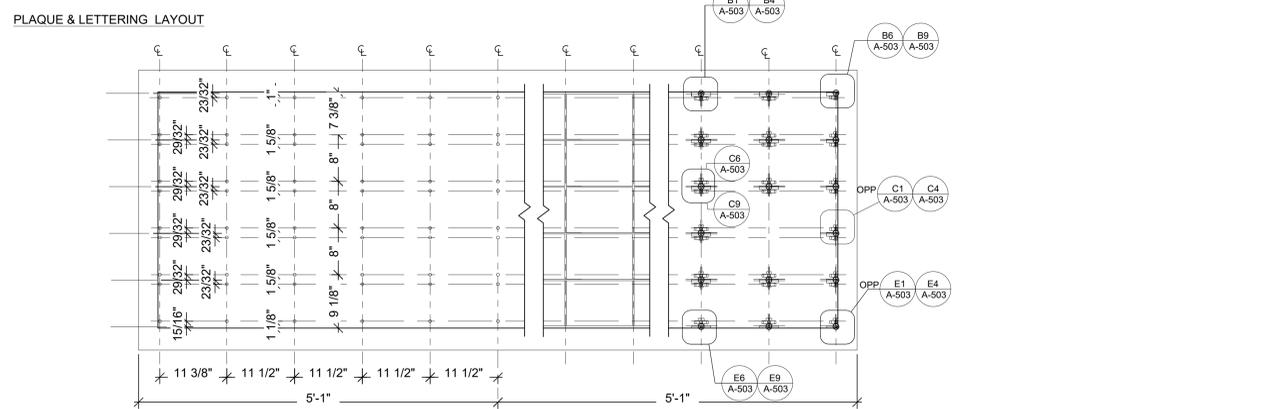
Drawing Number
A-501

Sheet 36 of 61

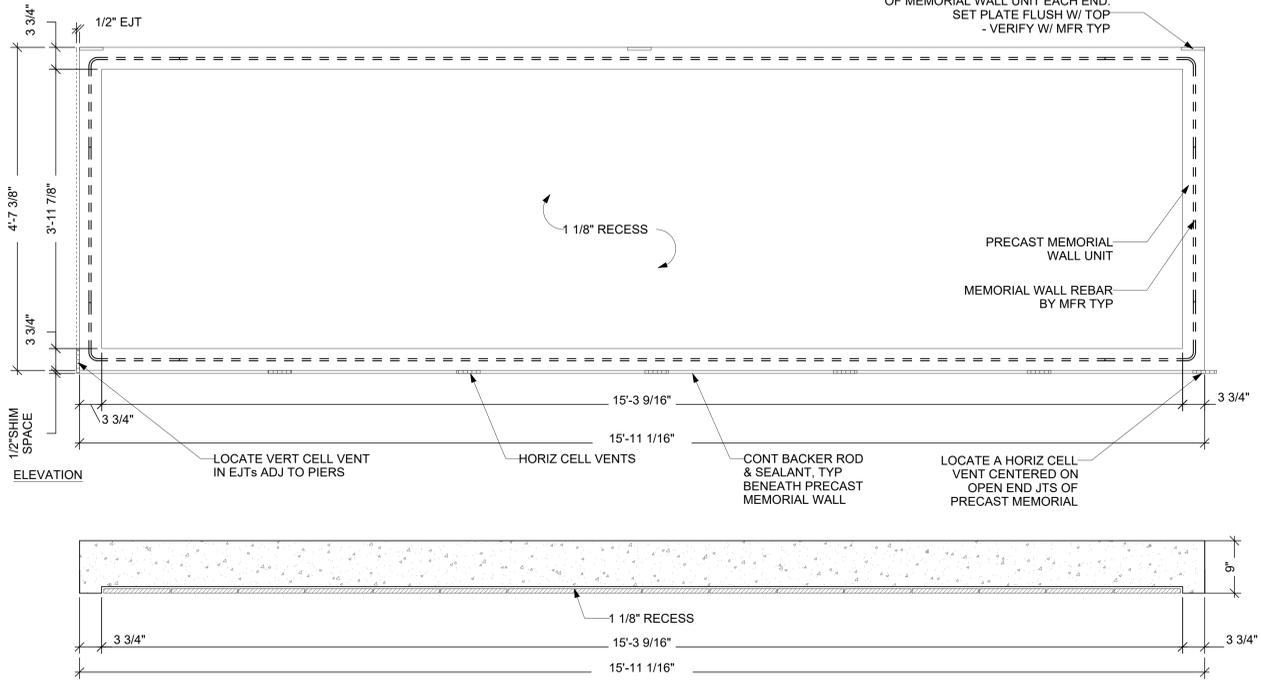


- ① 1 1/4" x 7 3/4" x 3/4" MARBLE MEMORIAL WALL MARKER
- ② 1" DIA STAINLESS STEEL ROSETTE WITH NEOPRENE WASHER TO MATCH COLUMBARIUM UNIT ROSETTE
- ③ #10-24 TPI x 1 1/8" STAINLESS STEEL BOLT WITH TORX HEAD
- ④ 16 GA. TYPE 302 STAINLESS STEEL ROSETTE PLATE
- ⑤ 2 3/8" x 1/2" STAINLESS STEEL SPRING PLATE
- ⑥ 1/4"-20 STAINLESS STEEL TORX HEAD SCREW
- ⑦ WHITE PLASTIC WASHER
- ⑧ #10 - 24 TPI x 9/32" x 3/4" STAINLESS STEEL ROUND BASE BRAD HOLE TEE NUT WITH 1/4"-24 THREADED EXTERIOR TO RECEIVE 1/4" - 28 IN. STAINLESS STEEL JAM NUT AND TO RECEIVE TAMPER-PROOF ROSETTE PIN
- ⑨ PRECAST CONCRETE WALL UNIT
- ⑩ CONTRACTOR TO FIELD DRILL PRECAST WALL WITH A 3/8" DRILL BIT TO 1-1/8" DEEP TO RECEIVE THE 1/4"-20 TAMPER-PROOF SCREW WITH THREADED INTERIOR
- ⑪ 1/4"-24 STAINLESS STEEL JAM NUT
- ⑫ 1/16" THICK STAINLESS STEEL FLAT WASHER

- ① 1" DIA. STAINLESS STEEL ROSETTE W/ NEOPRENE WASHER TO MATCH COLUMBARIUM UNIT ROSETTE
- ② #10-24TPI x 1-1/8" STAINLESS STEEL BOLT WITH TAMPER-PROOF HEAD
- ③ 16 GAUGE, TYPE 302 STAINLESS STEEL ROSETTE PLATE
- ④ 2-3/8" x 1/2" STAINLESS STEEL SPRING PLATE
- ⑤ 1/4"-20 STAINLESS STEEL TORX HEAD TAMPER-PROOF SCREW
- ⑥ WHITE PLASTIC WASHER
- ⑦ #10 - 24 TPI x 9/32" x 3/4" STAINLESS STEEL ROUND BASE BRAD HOLE TEE NUT WITH 1/4"-24 THREADED EXTERIOR TO RECEIVE 1/4" - 28 IN. STAINLESS STEEL JAM NUT AND TO RECEIVE TAMPER-PROOF ROSETTE PIN
- ⑧ CONTRACTOR TO FIELD DRILL PRECAST WALL WITH A 3/8" DRILL BIT TO 1-1/8" DEEP TO RECEIVE THE 1/4"-20 TAMPER-PROOF SCREW WITH THREADED INTERIOR
- ⑨ 1/4"-24 STAINLESS STEEL JAM NUT

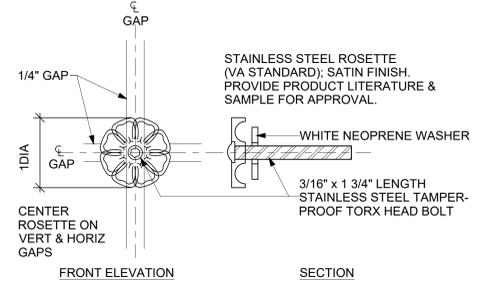


HARDWARE LAYOUT
ALL ANCHOR HARDWARE DIMENSIONS SHALL BE LOCATED AS SHOWN WITH A TOLERANCE OF 1/32" +/- VERIFY HARDWARE LAYOUT WITH HARDWARE PROVIDED PRIOR TO DRILLING FOR ANCHORS



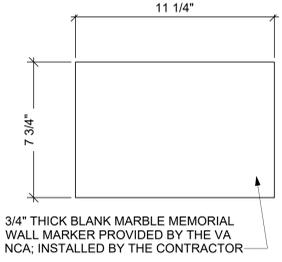
PLAN
F1 1/2" = 1'-0"
PRECAST MEMORIAL WALL UNIT

B6 1/2" = 1'-0"
MEMORIAL WALL ROSETTE ATTACHMENT - ISOMETRIC



C6 1/2" = 1'-0"
MEMORIAL WALL ROSETTE FASTENER DETAIL

B9 1/2" = 1'-0"
MEMORIAL WALL ROSETTE ATTACHMENT - SECTION



C8 3" = 1'-0"
MEMORIAL WALL MARKER PLAQUE

CONSULTANT Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400 mwmla.com 505 268 2266		ARCHITECT/ENGINEER OF RECORD LANDSCAPE ARCHITECTS Project Management Construction Management Engineering 18300 East 71st Ave., Denver, CO, 80249 504.684.4408; Sean Fitzpatrick		STAMP 	National Cemetery Administration Design and Construction Service U.S. Department of Veterans Affairs	Drawing Title MEMORIAL WALL DETAILS 1 Approved: Project Director Steve Davis Department of Veterans Affairs, NCA Phone: 202.632.4833 Email: steve.davis@va.gov	Phase BID DOCUMENTS N/A	Project Title NATIONAL CEMETERY DEVELOPMENT CEDAR CITY RURAL INITIATIVE Location Cedar City, UT Issue Date 7/22/2022	Project Number 942CM3001 Building Number N/A Drawing Number A-502 Checked Drawn	BID DOCUMENT SUBMITTAL Sheet 37 of 61
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