

A

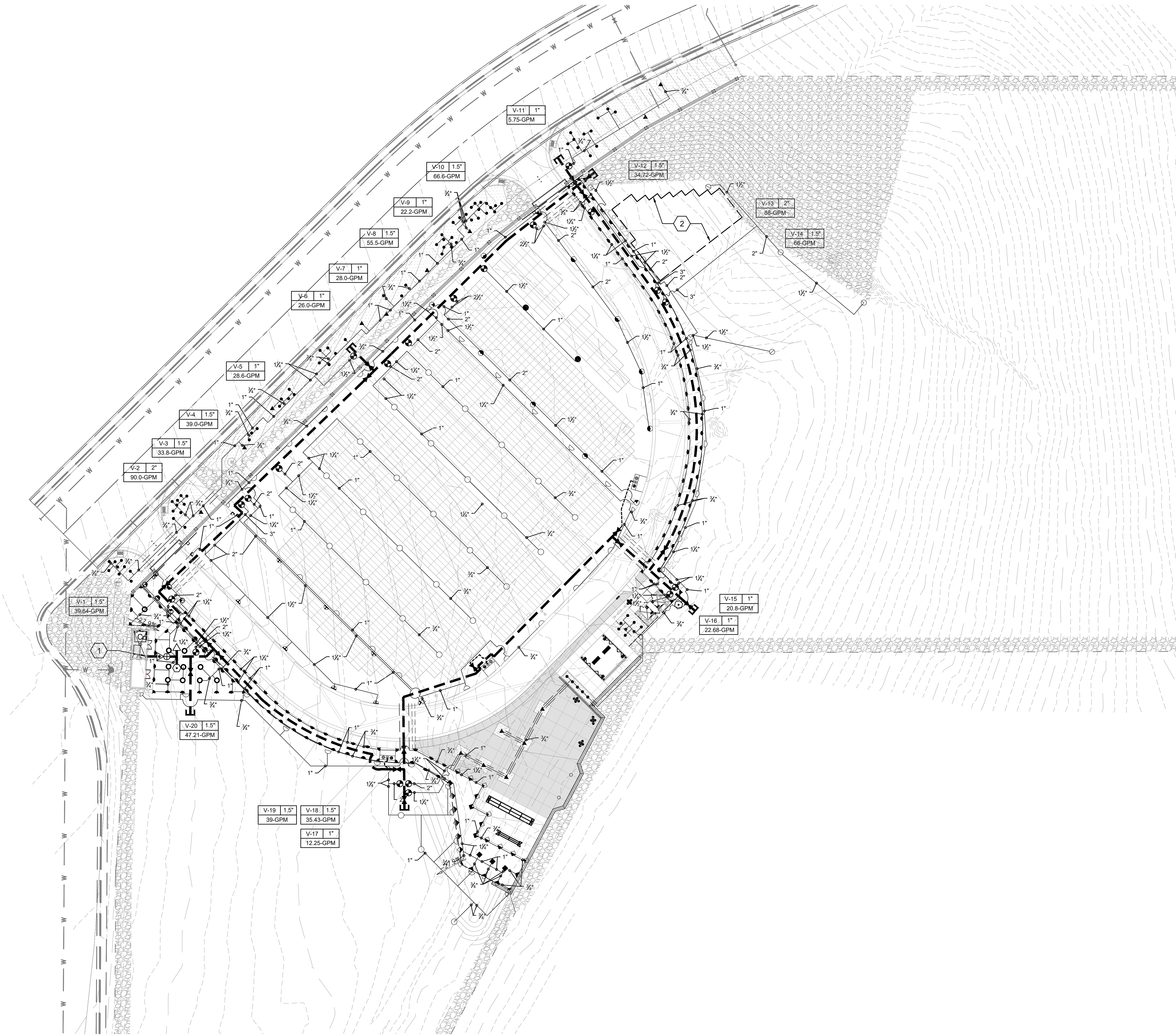
B

C

D

E

F



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

IRRIGATION LEGEND

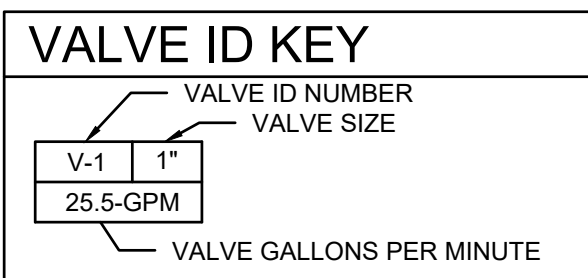
- 4" CLASS 200 O-RING AND GASKET PVC IRRIGATION MAIN LINE TO BE INSTALLED FOR PHASES 1 & 2. 24" DEPTH OF BURY. ALL JOINTS AT CHANGES IN DIRECTION SHALL HAVE DUCTILE IRON FITTINGS AS INDICATED IN DETAIL B1/LI503 AND THE SPECIFICATIONS. ALL JOINTS IN STRAIGHT RUNS OF PIPE UPSTREAM OR DOWNSTREAM OF A CHANGE IN DIRECTION SHALL BE RESTRAINED WITH PIPE RESTRAINTS PER CHART IN DETAIL B1/LI503. ALL OTHER JOINTS IN STRAIGHT RUNS OF PIPE SHALL BE AS INDICATED IN THE SPECIFICATIONS. REF. DETAIL F8/LI502.
- 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/LI501).
- 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/LI502). 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/LI502). 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/LI502). SEE SPECIFICATIONS.
- | MODEL NO. | RADIUS | GPM | PSI | PR |
|-----------|--------|------|-----|------|
| #8 | 49' | 9.0 | 70 | 1.44 |
| #8 | 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/LI502 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/LI502.)
- 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/LI503 & SPECIFICATIONS.
- REMOTE CONTROL VALVE ASSEMBLY, PLASTIC BODY 24-VOLT VALVE WITH TWO-WIRE DECODER AND PRESSURE REGULATING DEVICE. INSTALL PER DETAIL F1/LI501. SEE SPECIFICATIONS.
- MANUAL ISOLATION VALVE ASSEMBLY, DUCTILE IRON GATE VALVE WITH 2" OPERATING NUT, SAME SIZE AS LINE. INSTALL PER DETAIL D1/LI501. SEE SPECIFICATIONS.
- DUAL MASTER VALVE (NORMALLY OPEN) AND FLOW SENSOR ASSEMBLY PER DETAIL B8/LI503, SEE SPECIFICATIONS.
- FLOWER WATER STATION INCLUDING TRASH RECEPTACLE, FLOWER VASE HOLDER, AND HYDRANT. INSTALL PER DETAILS F4/LI501 AND F8/LI501.
- AIR RELEASE VALVE ASSEMBLY, SIZE 1". INSTALL PER DETAIL D4/LI501. SEE SPECIFICATIONS.
- WALL-MOUNTED 2-WIRE, DECODER CONTROLLER PER DETAIL F5/LI502. INSTALL CONTROLLER IN PUMP HOUSE WITH SURGE PROTECTION. PROVIDE GROUNDING PER MANUFACTURER'S SPECIFICATIONS AND DETAIL F6/LI503. CONTRACTOR SHALL TEST GROUNDING AND PROVIDE RESULTS IN WRITING TO OWNER.
- QUICK COUPLING VALVE ASSEMBLY, REFER TO DETAIL F3/LI502.
- SELF-RESTRAINED DUCTILE IRON CAP, SIZE PER LINE SIZE.

IRRIGATION NOTES

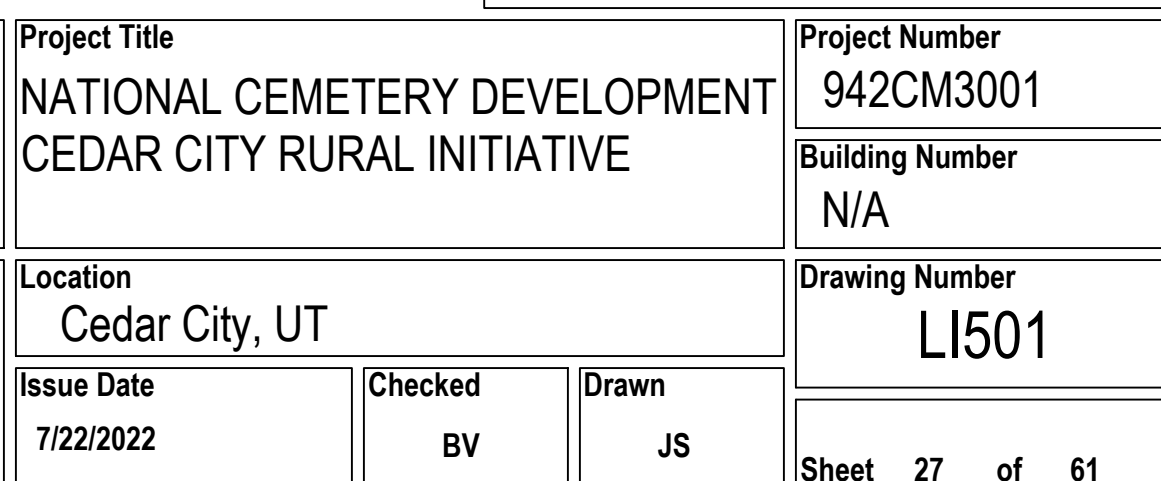
- WHERE SLEEVING IS SHOWN ON THE PLAN, INSTALLATION SHALL BE COORDINATED WITH ALL TRADES TO ENSURE THAT PIPE AND SLEEVES ARE INSTALLED AT PROPER DEPTHS AND PRIOR TO INSTALLATION OF CURB AND GUTTER, ASPHALT PAVEMENT, SIDEWALKS, CONCRETE PADS, ETC.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH PLANS, WRITTEN SPECIFICATIONS AND DETAILS.
- FOR PVC IRRIGATION PIPING AND EQUIPMENT REFERENCE SPECIFICATION SECTION 328400 - LANDSCAPE IRRIGATION SYSTEM.
- 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.
- 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.
- 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.
- 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.
- ALL IRRIGATION LATERAL LINES AND HEADS IN BURIAL AREAS WITH IRRIGATION AISLES SHALL BE INSTALLED PER DETAIL C1/LI502.
- 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.

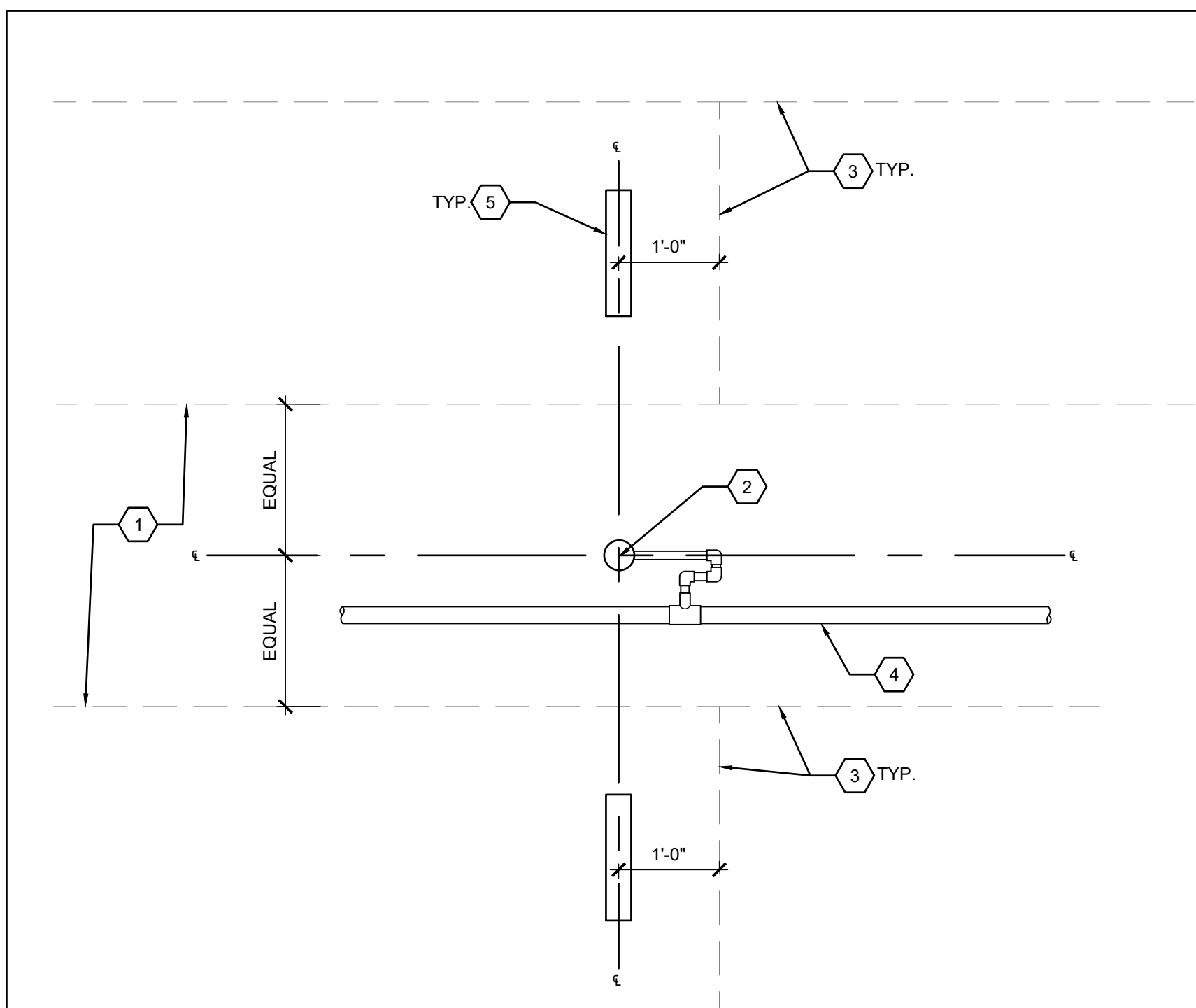
IRRIGATION KEYED NOTES

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



CONSULTANT wood. Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400		ARCHITECT/ENGINEER OF RECORD MRWM LANDSCAPE ARCHITECTS 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 BRIAN J. VERARD No. 7319855 7/22/22 7/22/22		National Cemetery Administration Design and Construction Service VA U.S. Department of Veterans Affairs		Drawing Title IRRIGATION 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		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 L1101 Sheet 26 of 61	
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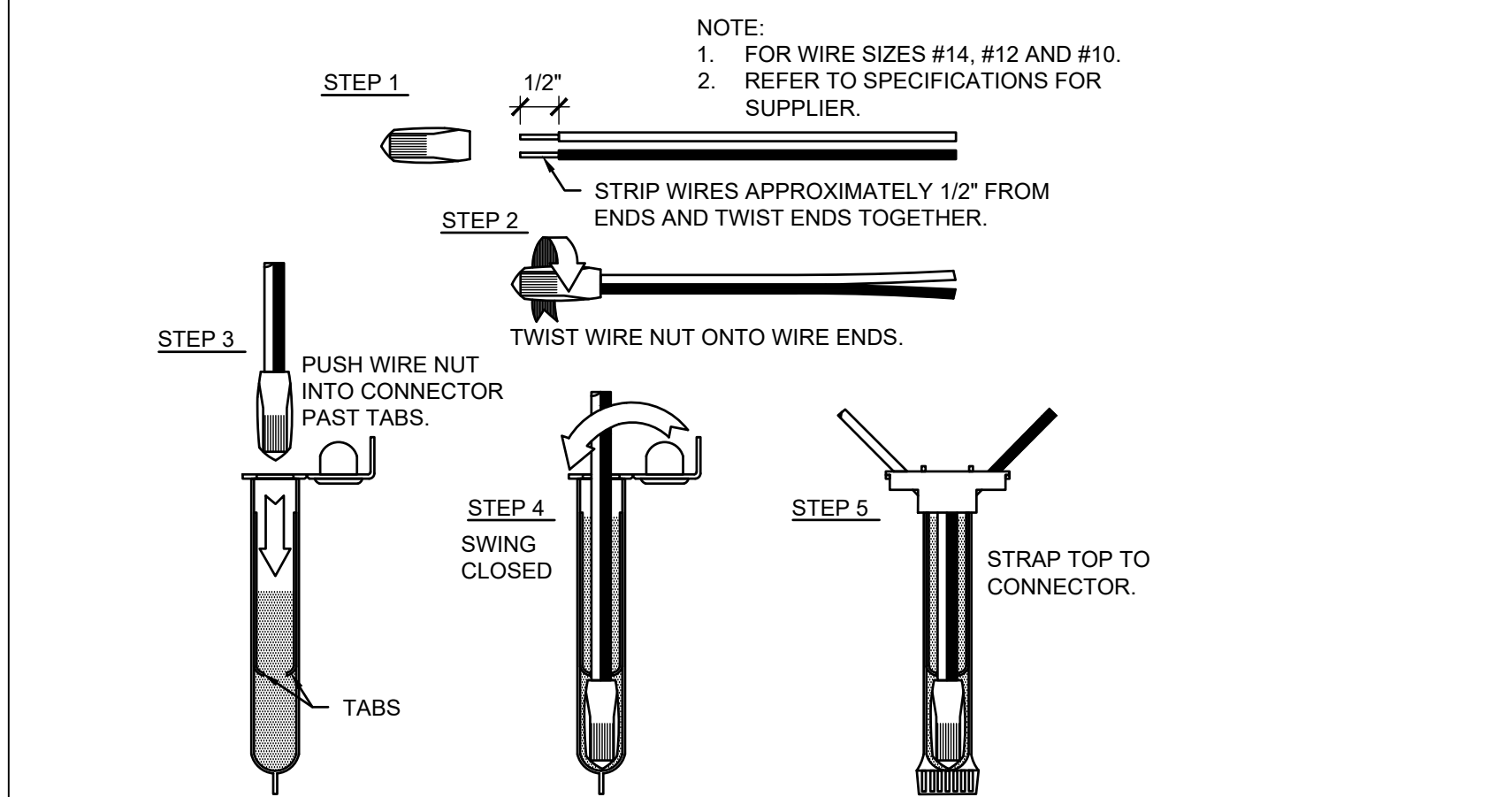
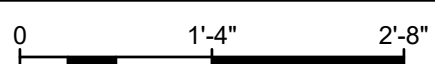


KEYED NOTES

- 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:
- A. BURIAL GRID DIMENSIONS VARY, REFER TO CIVIL PLANS.
- B. IN LOCATIONS WHERE BACK-TO-BACK HEADS ARE TO BE INSTALLED IN IRRIGATION AISLE, PROVIDE MIN. 4" SEPARATION BETWEEN HEADS.
- C. 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.

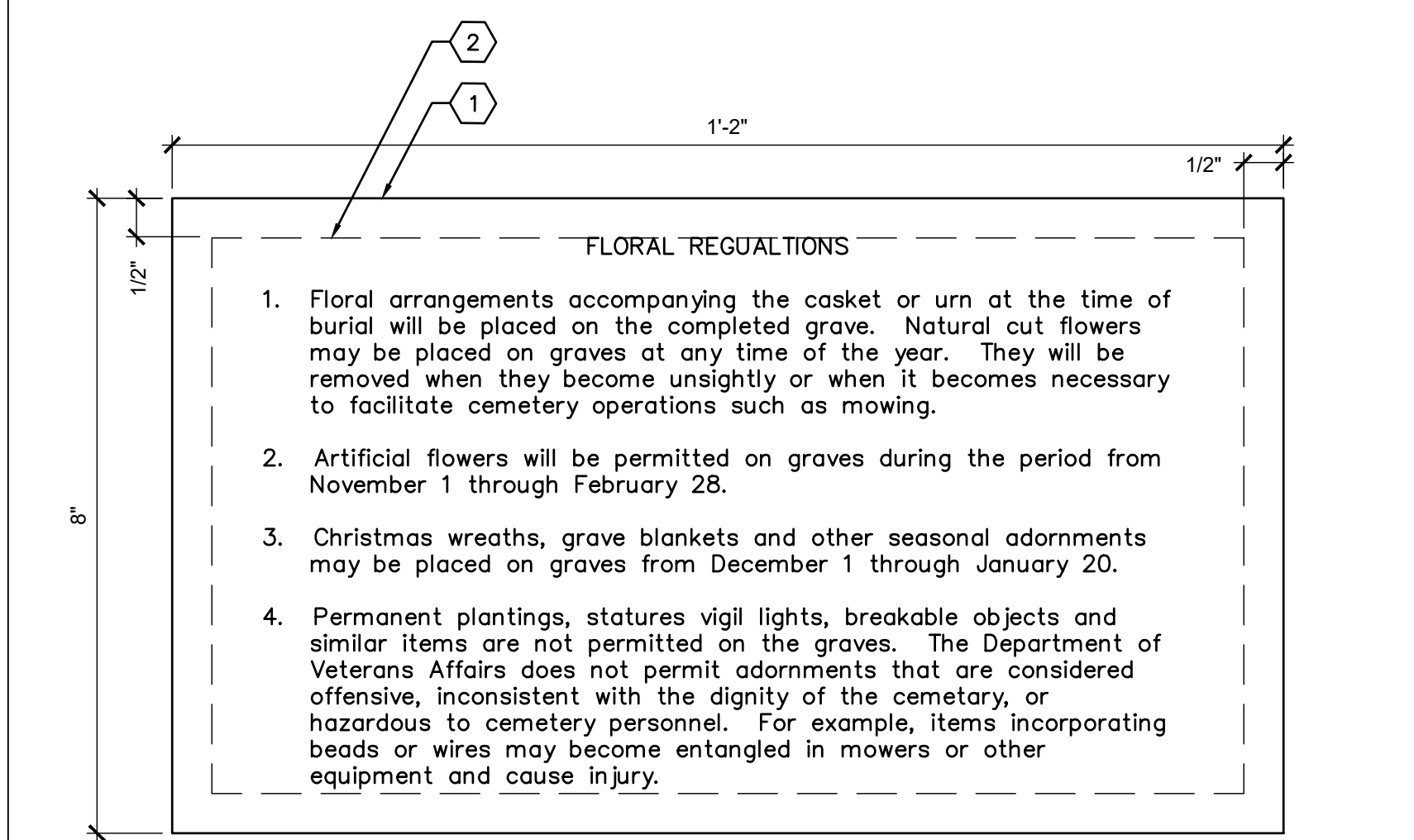
C1 HEAD LOCATION AT IRRIGATION AISLE

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



D1 WIRE SPLICES

SCALE: N.T.S.



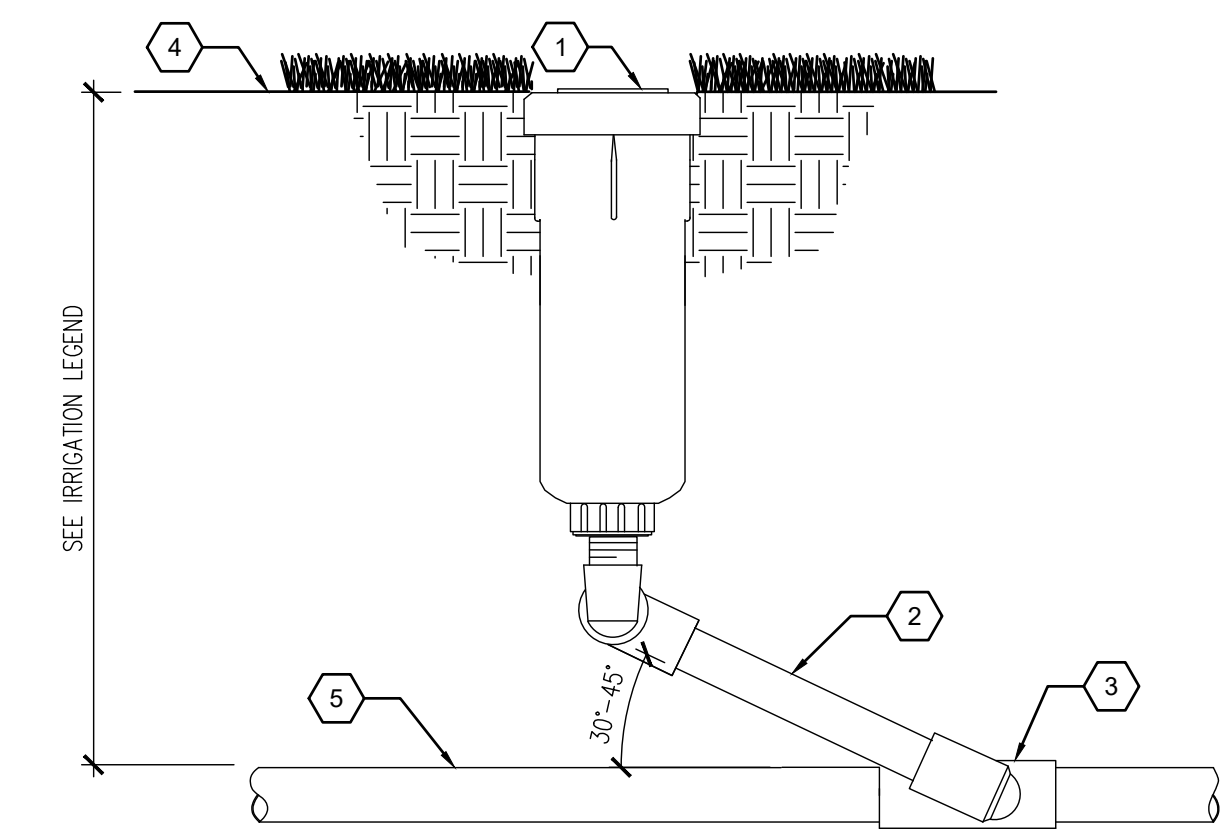
KEYED NOTES

- EDGE OF DECAL.
- LIMITS OF TEXT.

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

F1 FLORAL REGULATIONS DECAL

SCALE: N.T.S.

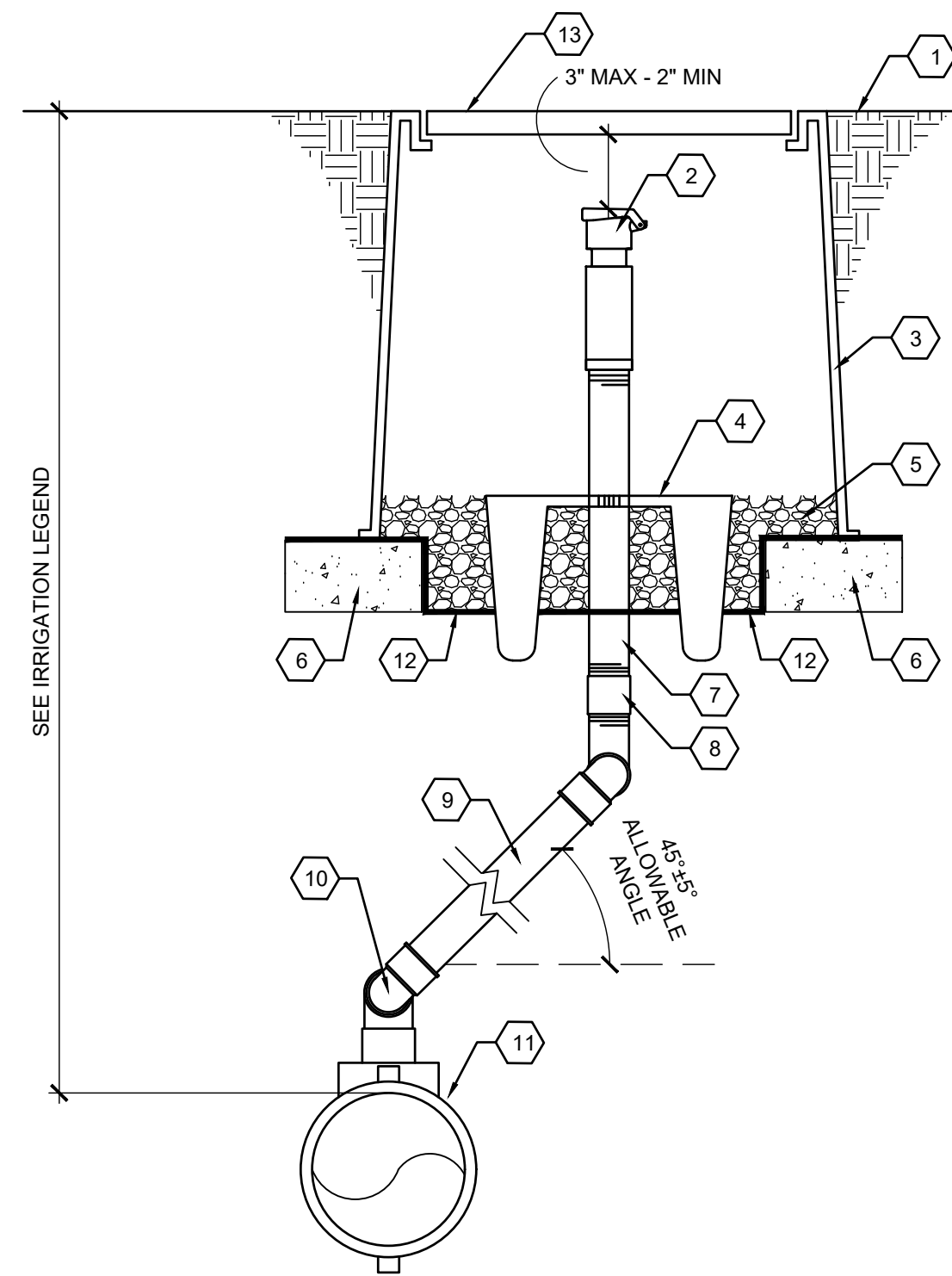


KEYED NOTES

- 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

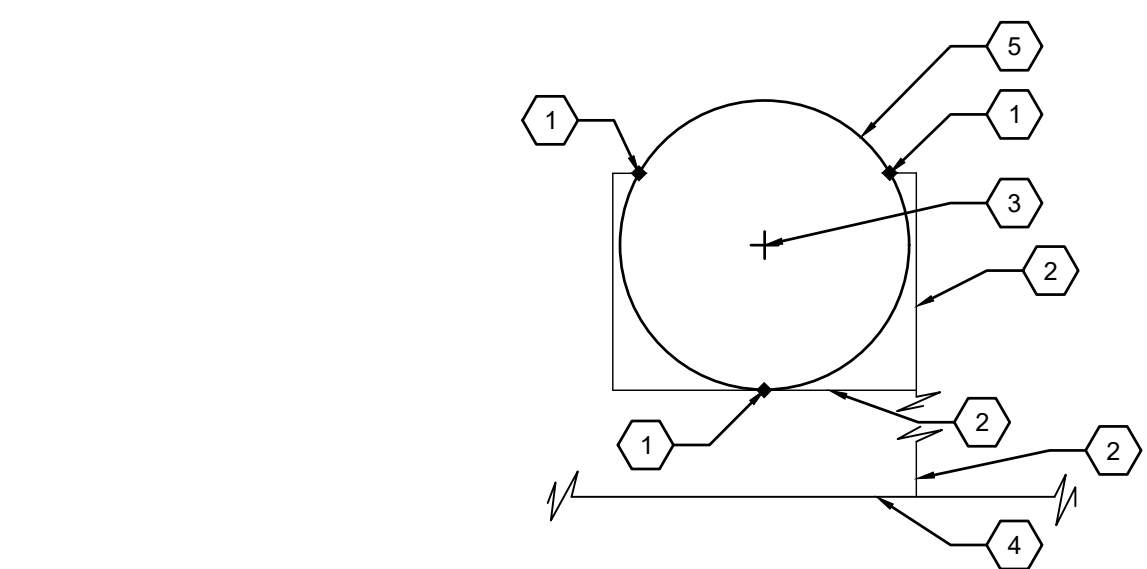
- FINISH GRADE.
- 1" QUICK COUPLING VALVE - SEE SPECIFICATIONS.
- 10" ROUND ABS PLASTIC VALVE BOX WITH BOLT DOWN LID AND EXTENSIONS AS REQUIRED.
- QUICK COUPLER ANCHOR - SEE SPECIFICATIONS.
- 6" MINIMUM DEPTH OF 3/4" WASHED GRAVEL.
- 8"x8"x16" SOLID CMU BLOCK CONTINUOUS ON ALL SIDES.
- 1" DIAMETER PVC 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.

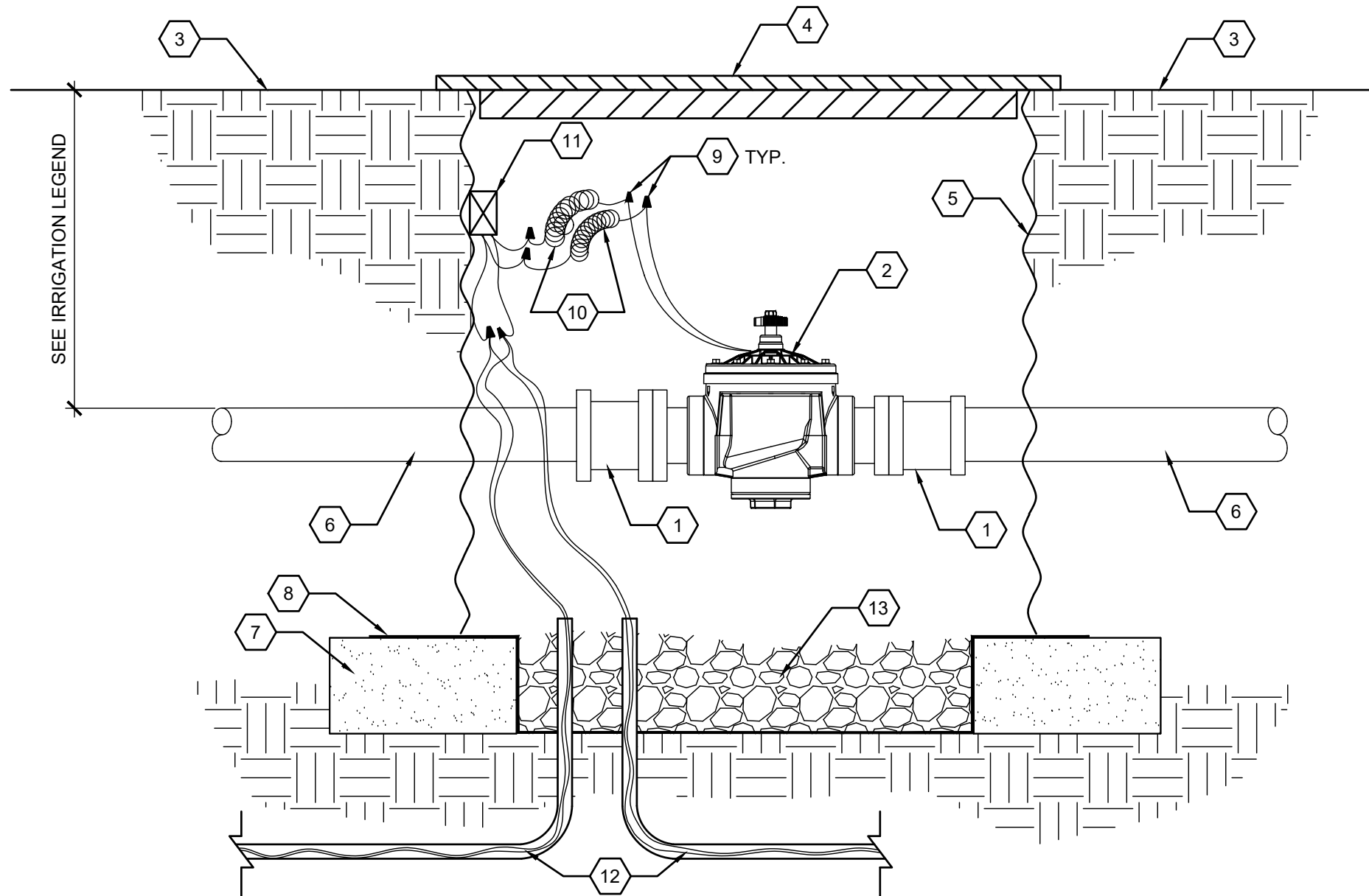


KEYED NOTES

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

B5 BUBBLERS TRIANGULATED AROUND TREE DETAIL

SCALE: N.T.S.

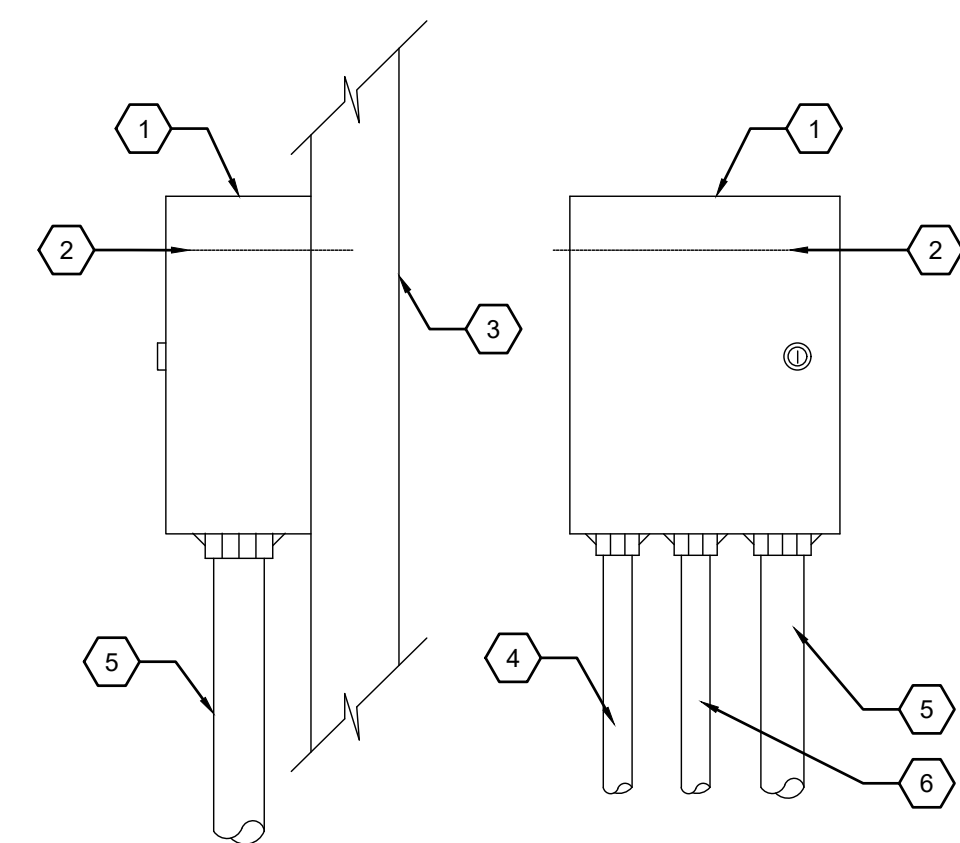


KEYED NOTES

- 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.

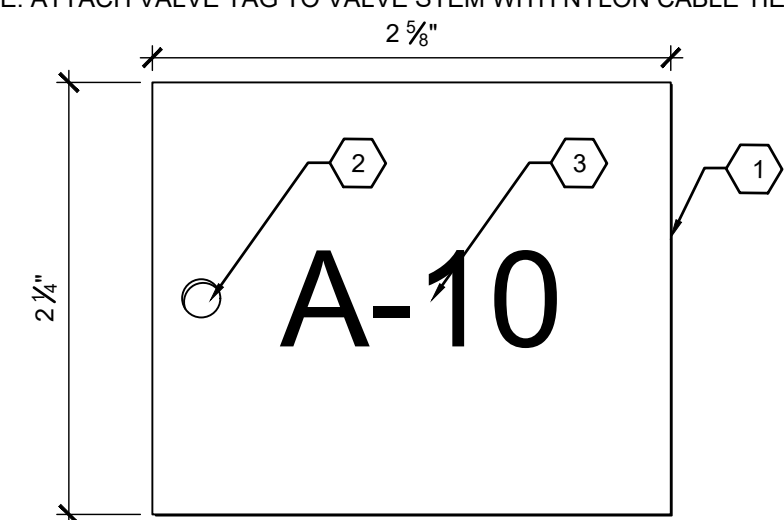
GENERAL NOTE

- 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

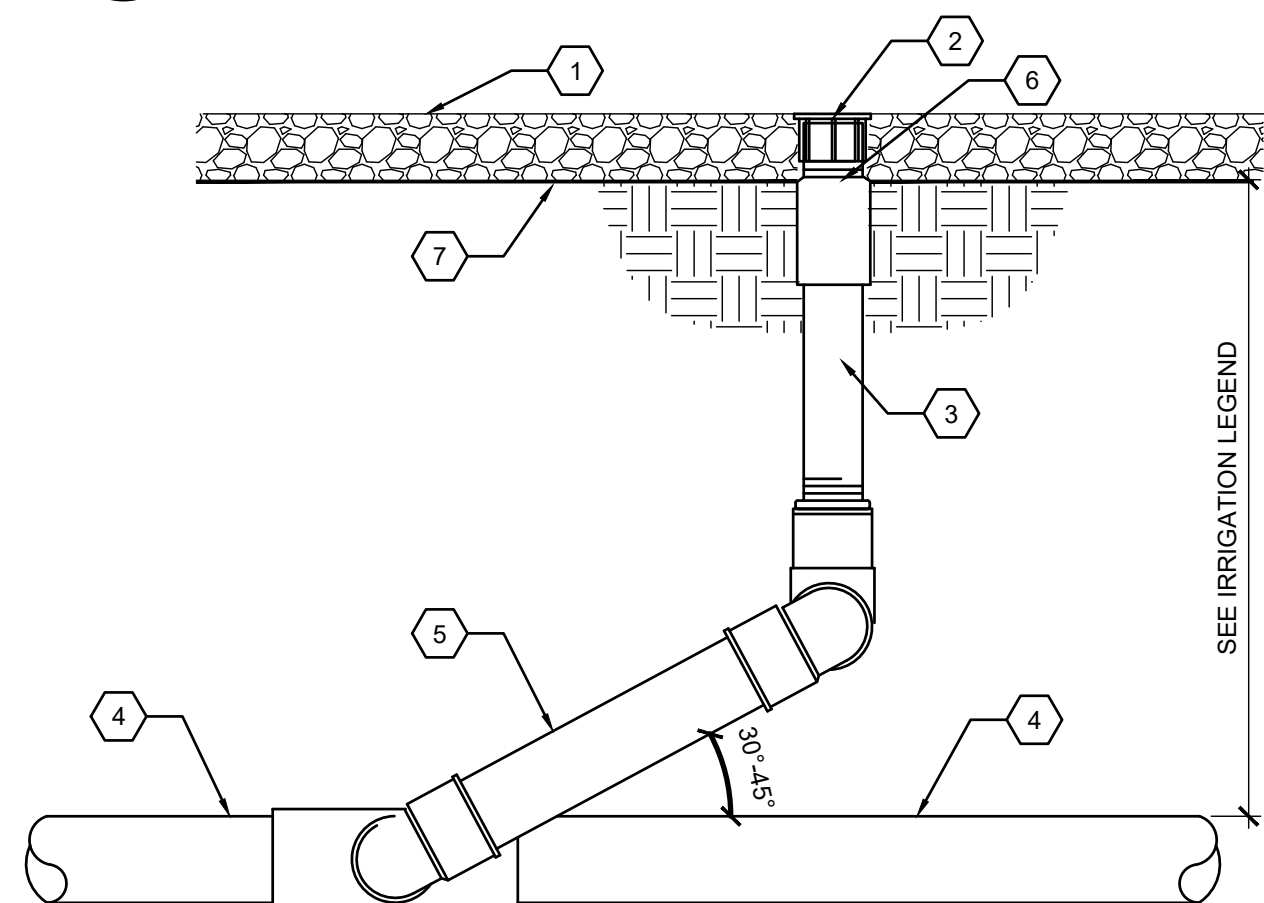


KEYED NOTES

- 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

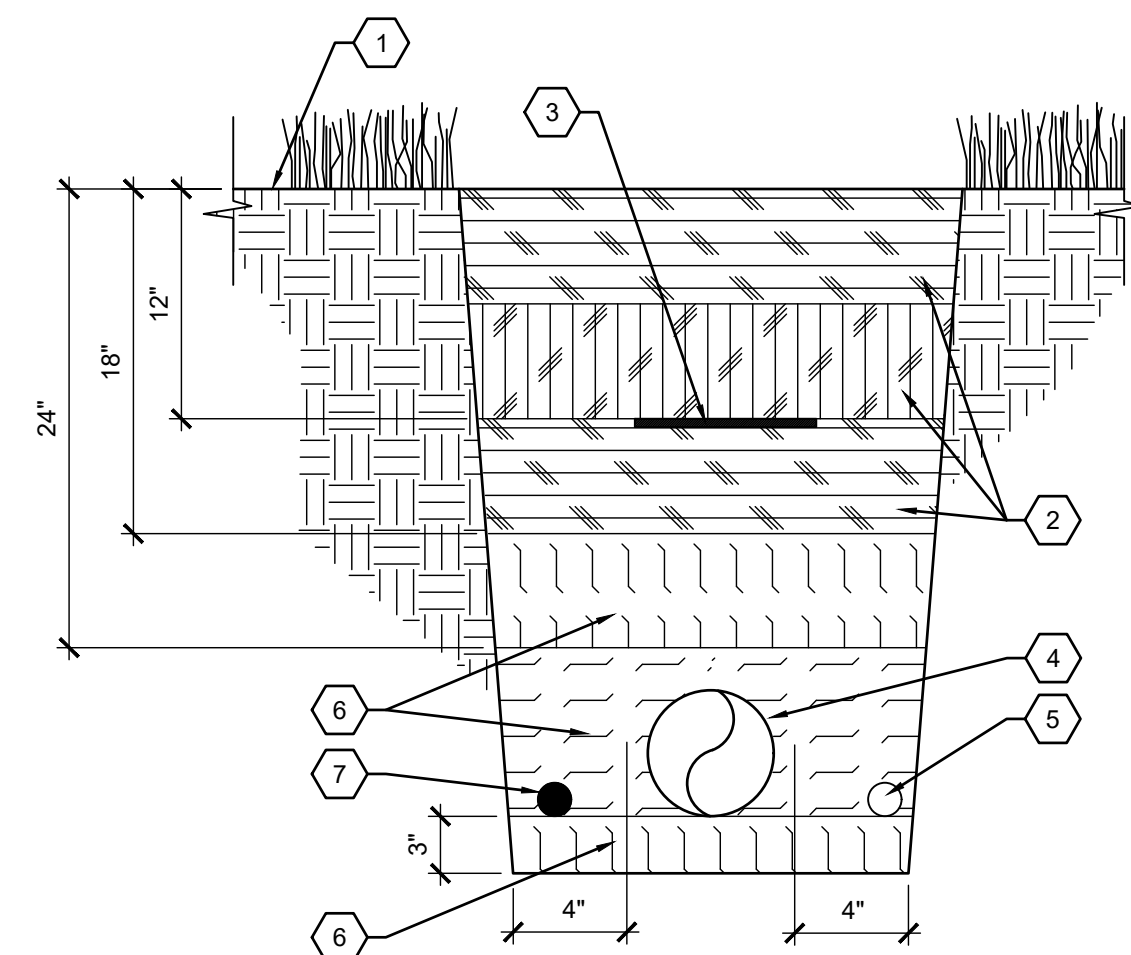
- TOP OF MULCH, SEE PLANTING NOTES FOR DEPTH OF MULCH.
- PRESSURE COMPENSATING BUBBLER, SEE LEGEND.
- 1/2" SCH 80 PVC THREADED NIPPLE, LENGTH AS REQUIRED.
- PVC LATERAL PIPING.
- PRE-FABRICATED SCH. 80 PVC SWING-JOINT, SEE SPECIFICATIONS.
- 1/2" FIPT x MIPT IN-LINE ADJUSTABLE SPRING CHECK VALVE, SEE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

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

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wood.	MRWM
Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400	LANDSCAPE ARCHITECTS mrwmla.com 505 268 2266

VCI	Project Management Construction Management Engineering
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STAMP
BRIAN J. VERARD No. 7319855 7/22/22 7/22/22

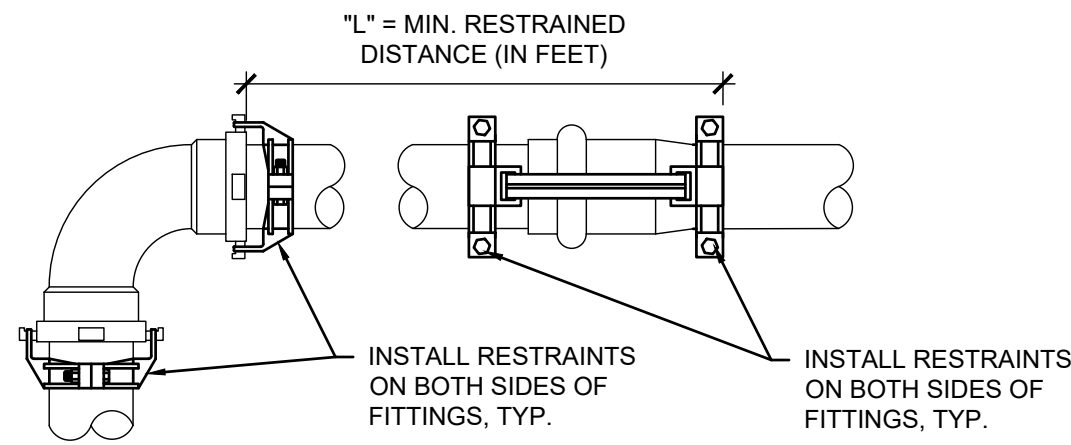
National Cemetery Administration Design and Construction Service
VA U.S. Department of Veterans Affairs

Drawing Title	IRRIGATION DETAILS 2
Approved: Project Director Steve Davis Department of Veterans Affairs, NCA	
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	BV
Drawn	JS

Project Number	942CM3001
Building Number	N/A
Drawing Number	LI502
Sheet	28 of 61



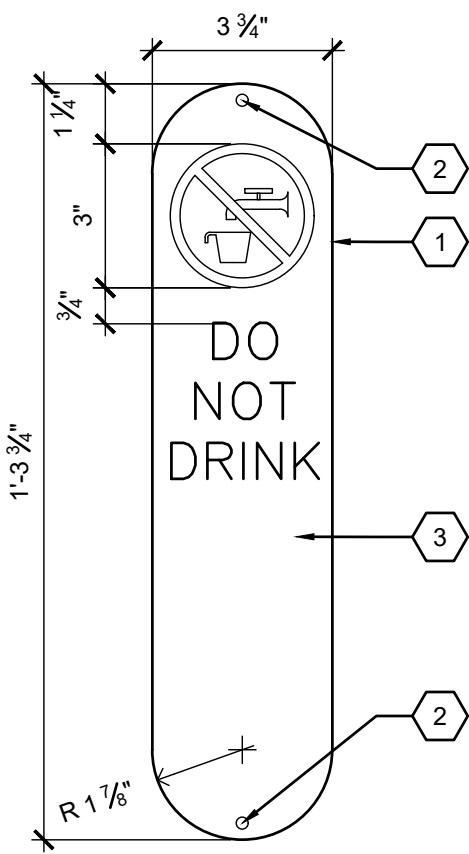
JOINT RESTRAINT DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE MINIMUM RESTRAINED LENGTH (IN FEET) FOR EACH SIZE/TYPE 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
4"	11"	14"	45'	23'
2"	22"	20"		
4"	45°	3 STEP		
9"	90°	2 STEP		
20"		3 STEP		
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

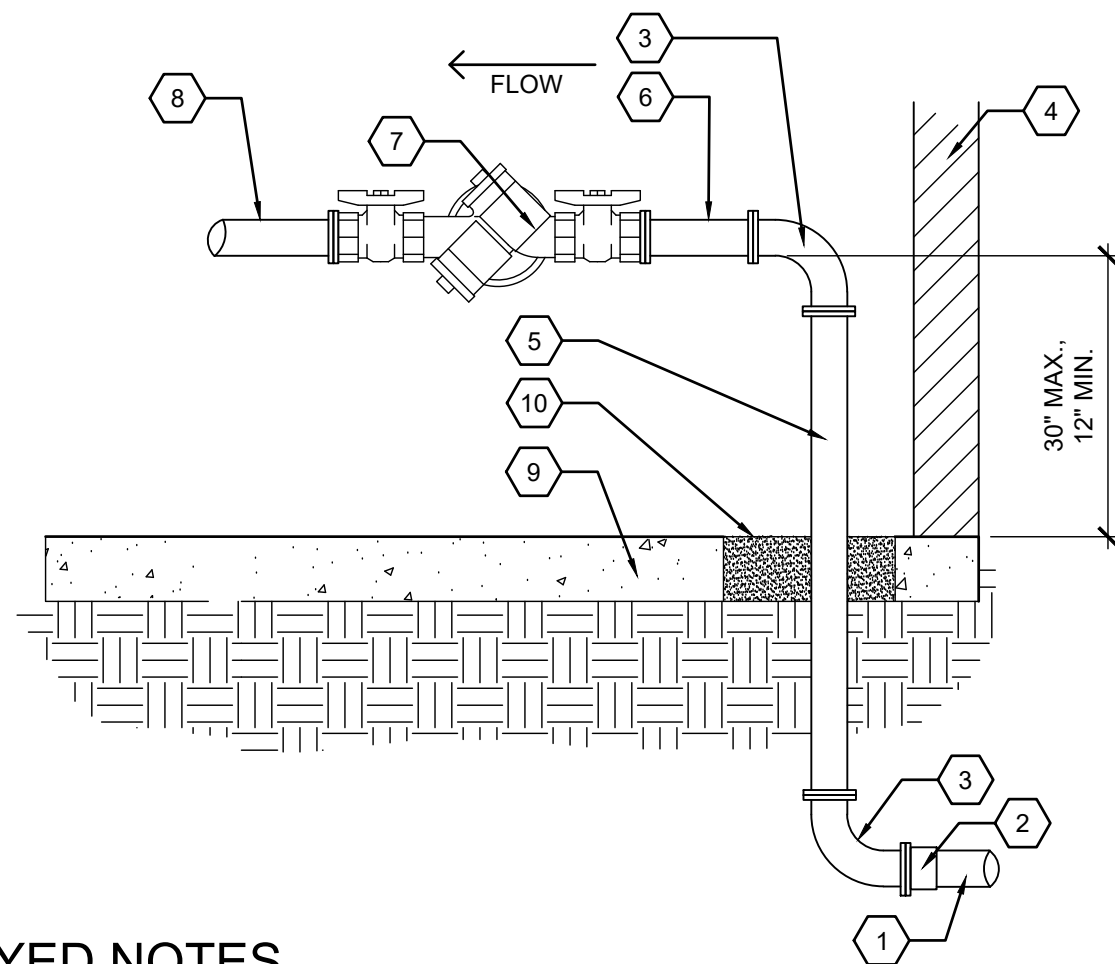
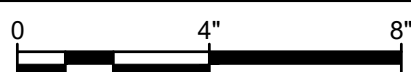
1. 1/2" THICK ALUMINUM SIGN PANEL. SEE SPECIFICATIONS FOR COLOR, COPY & FINISH.
2. 1/2" DIA. HOLES TO RECEIVE SCREWS, TOP & BOTTOM, SECURE W/ (2) 1/2" Ø x 2" S.S. TAMPER-PROOF SCREWS AND EXPANSION SHIELD.
3. SEE SPECIFICATION SECTION 10 14 00 FOR SYMBOL & COPY FONT.

GENERAL NOTES

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

D6 FWS SIGN PANEL (DO NOT DRINK)

SCALE: 3" = 1'-0"

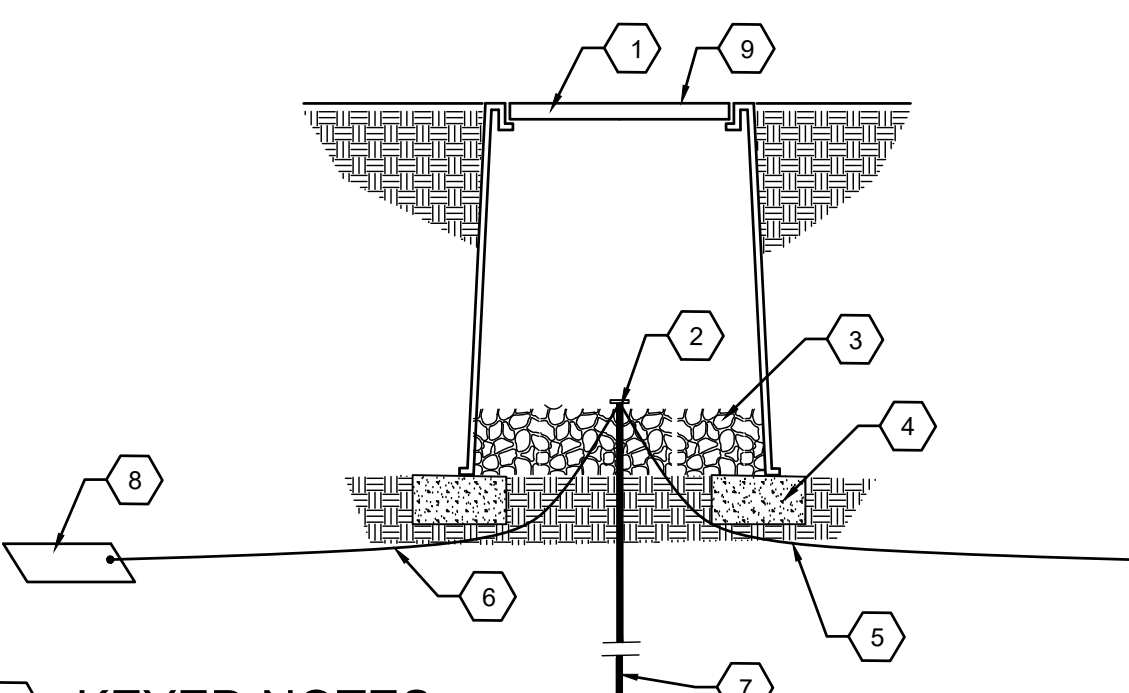


KEYED NOTES

1. SERVICE LINE FROM WATER METER
2. FLANGED REPAIR COUPLING
3. 4" DUCTILE IRON FLANGED SPOOL PIECE, LENGTH AS REQUIRED, TO PUMP SUCTION HEADER
4. 4" DUCTILE IRON RISER WITH FLANGES, LENGTH AS REQUIRED
5. 4" DUCTILE IRON SPOOL PIECE, LENGTH AS REQUIRED
6. 4" DUCTILE IRON SPOOL PIECE, LENGTH AS REQUIRED
7. 4" REDUCED PRESSURE BACKFLOW DEVICE, SEE SPECIFICATIONS
8. 4" DUCTILE IRON FLANGED SPOOL PIECE, LENGTH AS REQUIRED, TO PUMP SUCTION HEADER
9. PUMP HOUSE SLAB
10. FLOOR OPENING FOR PIPE PENETRATIONS, REF. DETAIL B1/A-101 FOR FINISH

D6 BACKFLOW PREVENTER

SCALE: N.T.S.



KEYED NOTES

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

GENERAL NOTES

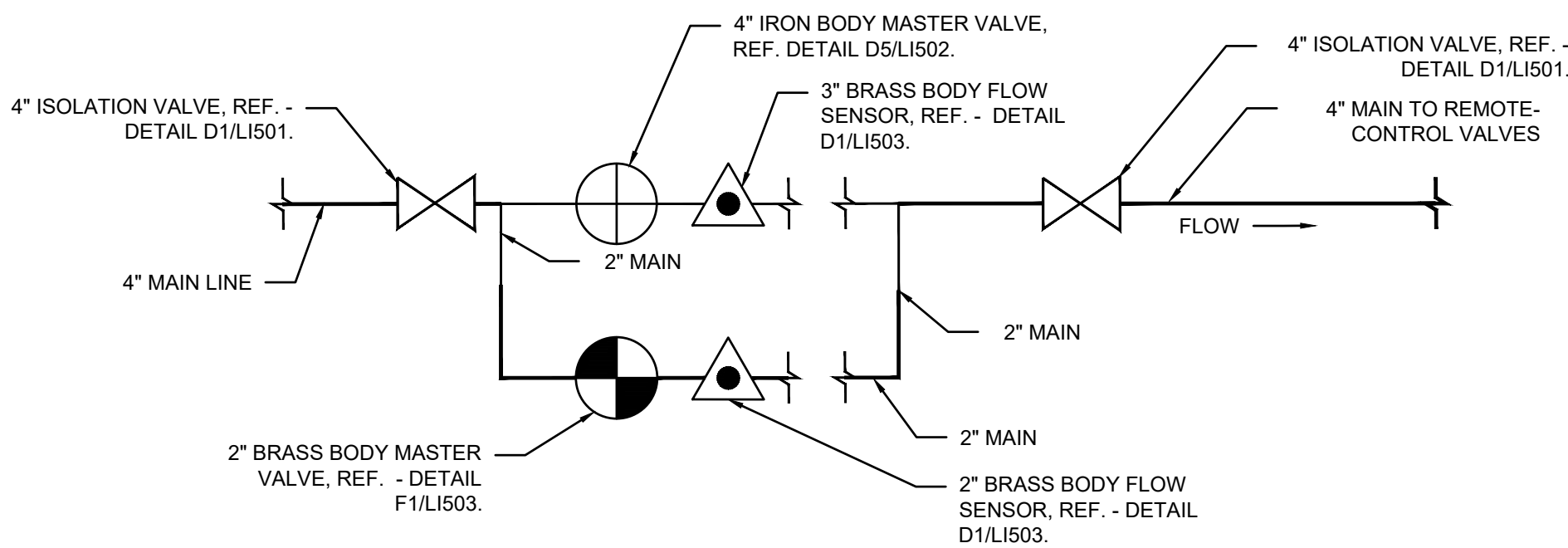
1. PROVIDE 4" MIN CLEARANCE BETWEEN VALVE BOX LID AND HIGHEST OBJECT IN THE BOX.

F6 CONTROLLER & DECODER GROUNDING

N.T.S.

B8 MASTER VALVE/FLOW SENSOR ASSEMBLY

SCALE: N.T.S.



KEYED NOTES

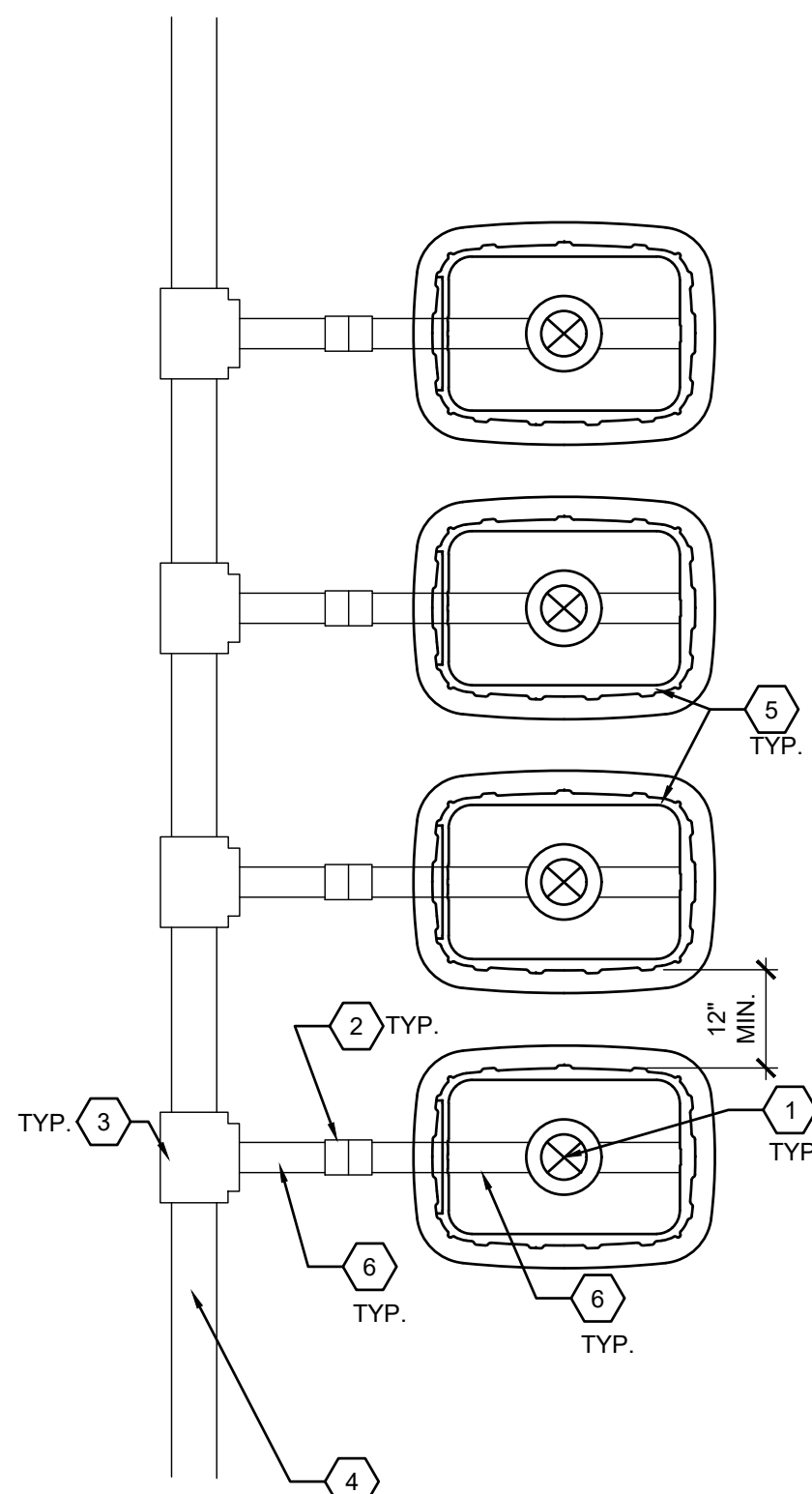
1. REMOTE CONTROL VALVE ASSEMBLY SEE DETAIL F1/L1501.
2. SCH 80 PVC SOLVENT WELD 45° FITTING
3. DUCTILE IRON SERVICE TEE WITH JOINT RESTRAINTS - SEE DETAIL F1/L1501.
4. PVC MAINLINE PIPE
5. 17"x30" VALVE BOX WITH TEE COVER
6. SCH 80 PVC SOLVENT WELD PIPE (LENGTH AS REQUIRED), SIZE TO MATCH LATERAL PIPING IMMEDIATELY DOWNSTREAM OF REMOTE CONTROL VALVE (REFERENCE IRRIGATION PLANS).

GENERAL NOTES

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

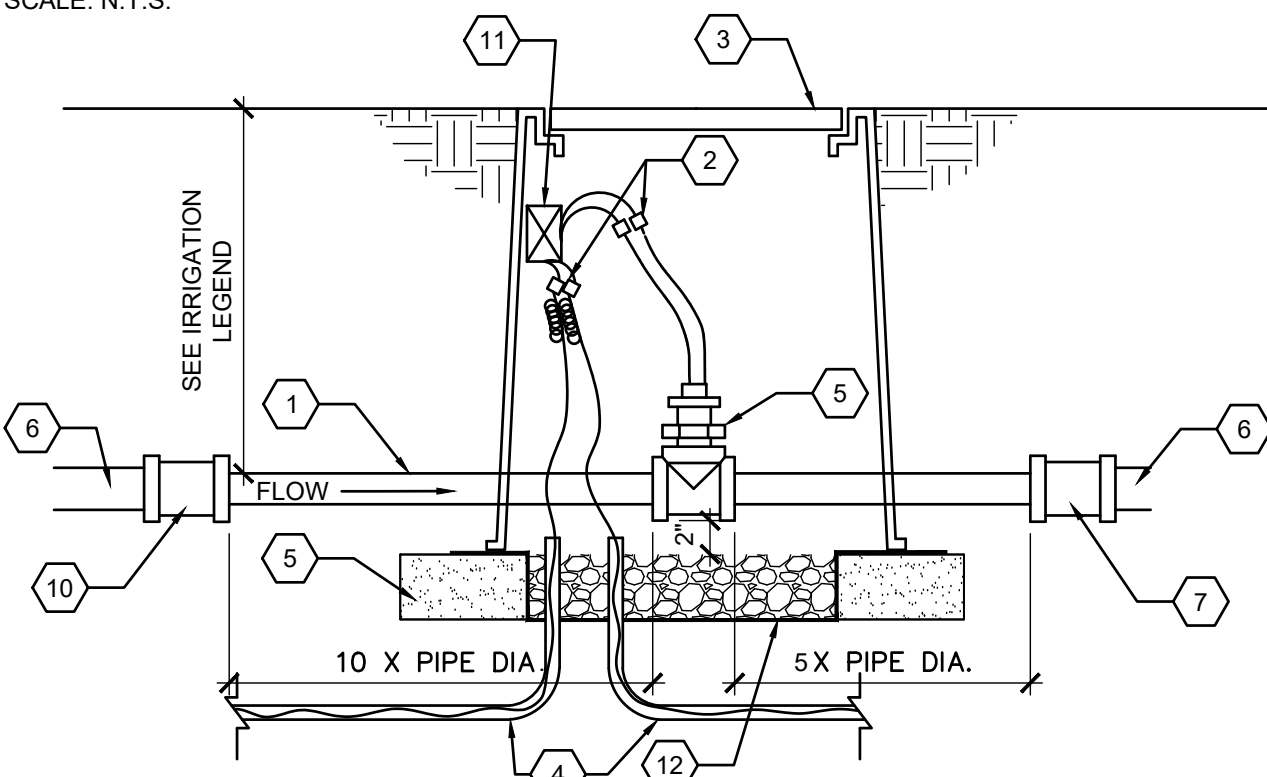
F8 VALVE BOX LAYOUT DETAIL

SCALE: N.T.S.



B1 DUCTILE IRON PIPE FITTINGS JOINT RESTRAINT

SCALE: N.T.S.

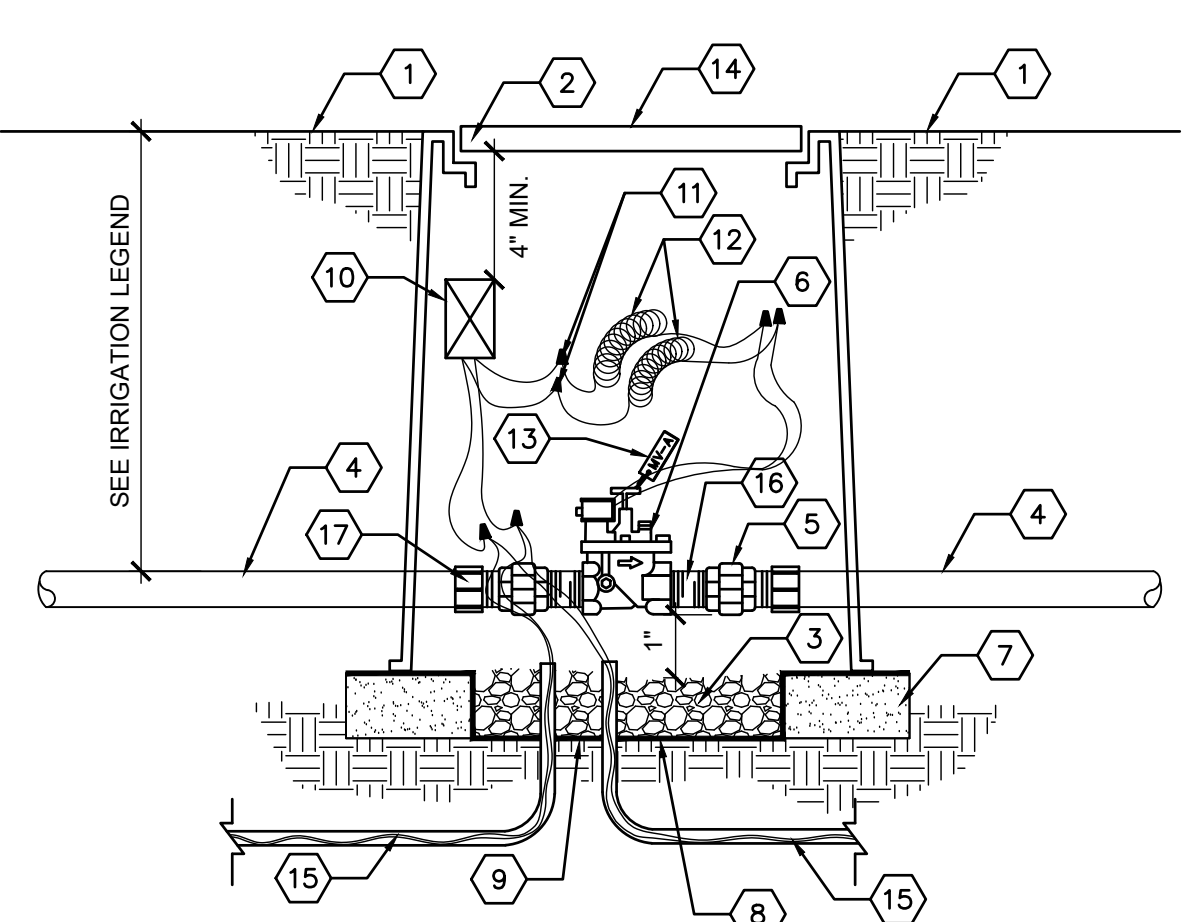


KEYED NOTES

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. TWO-WIRE SENSOR DECODER, SEE SPECIFICATIONS.
12. FILTER FABRIC - SEE SPECIFICATIONS.

D1 FLOW SENSING ASSEMBLY

SCALE: N.T.S.



KEYED NOTES

1. FINISH GRADE
2. 17"x30" VALVE BOX WITH BOLT DOWN TEE COVER AND EXTENSIONS AS REQUIRED
3. 1" DIAMETER WASHED ROCK, 8" DEPTH
4. IRRIGATION MAIN LINE
5. SCH. 80 PVC UNION
6. MASTER VALVE - SEE IRRIGATION LEGEND
7. 8" X 8" X 16" SOLID CMU BLOCK - CONTINUOUS ALL SIDES
8. 3/4" WASHED GRAVEL, 6" DEPTH
9. FILTER FABRIC - SEE SPECIFICATIONS
10. DECODER - SEE SPECIFICATIONS
11. WATERPROOF WIRE CONNECTOR, TYP. REFERENCE: D1/L1502
12. 36" WIRE EXPANSION LOOPS
13. ATTACH VALVE ID TAG TO VALVE STEM WITH NYLON CABLE TIE (REFERENCE DETAIL B8/L1502)
14. HOT BRAND OR CONICAL, BIT ROUTER LID WITH 3" TALL BY 3/16" DEEP LETTERS "MV" FOR MASTER VALVE
15. 2-WIRE DECODER CABLE IN 1" PVC CONDUIT WITH SWEEP ELLS
16. SCH. 80 PVC NIPPLE 3" LENGTH
17. SCH. 80 PVC MALE ADAPTER

F1 MASTER VALVE ASSEMBLY - 2"

SCALE: N.T.S.

KEYED NOTES

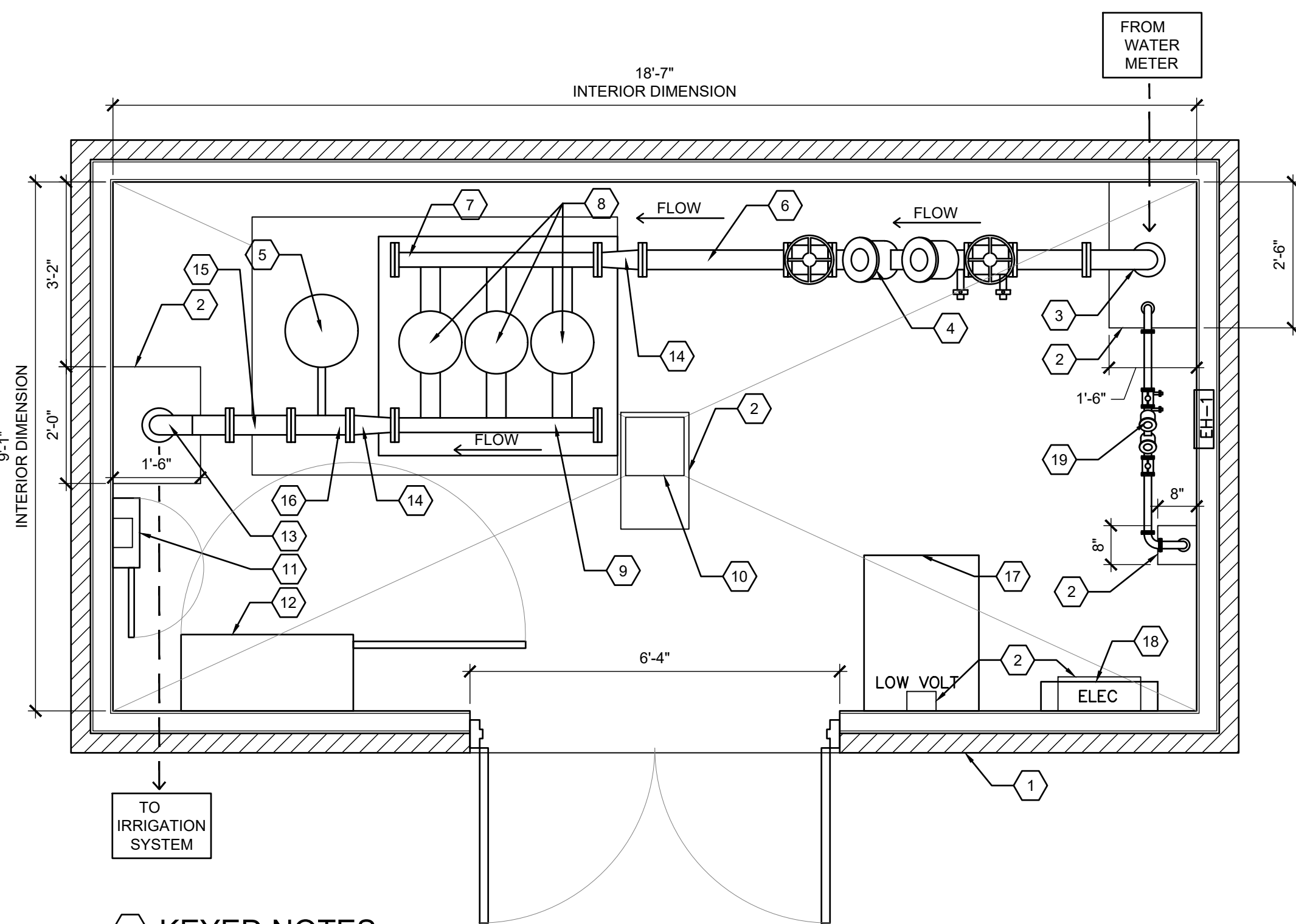
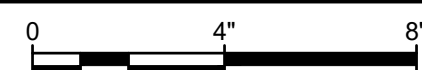
1. 1/2" THICK ALUMINUM SIGN PANEL. SEE SPECIFICATIONS FOR COLOR, COPY & FINISH.
2. 1/2" DIA. HOLES TO RECEIVE SCREWS, TOP & BOTTOM, SECURE W/ (2) 1/2" Ø x 2" S.S. TAMPER-PROOF SCREWS AND EXPANSION SHIELD.
3. COPY SHALL BE 3/4" HEIGHT, SEE SPECIFICATIONS FOR FONT.

GENERAL NOTES

- A. 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"



KEYED NOTES

1. PRE-MANUFACTURED CONCRETE PUMP BUILDING
2. FLOOR LEAVE-OUT, REF B1/A-101 FOR FINISH OUT
3. 4" DUCTILE IRON 90° ELBOW; INTAKE CONNECTED TO MUNICIPAL WATER SOURCE
4. 4" REDUCED PRESSURE BACKFLOW PREVENTER, SEE DETAIL D6/L1503
5. 14 GAL. VERTICAL STAND PRESSURE TANK
6. 4" DUCTILE IRON SPOOL PIECE, LENGTH AS REQ'D, DISCHARGE FROM BACKFLOW ASSEMBLY
7. 3" SCH 40 STAINLESS STEEL SUCTION
8. HEADER TO PUMPS
9. (3) VERTICAL MULTISTAGE CENTRIFUGAL PUMPS W/ INTEGRATED FREQUENCY CONVERTER MOUNTED ON SKID
10. 3" SCH 40 STAINLESS STEEL DISCHARGE HEADER FROM PUMPS
11. FLOOR DRAIN, REF B1/A-101
12. WALL MOUNTED IRRIGATION CONTROLLER
13. PUMP CONTROL PANEL
14. 4" DUCTILE IRON 90° ELBOW; DISCHARGE CONNECTED TO IRRIGATION MAIN LINE
15. 4"x3" CONCENTRIC REDUCER/FLEX CONNECTOR
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
17. LOW VOLTAGE PANEL/EQUIP. REF 5/E-101
18. MAIN ELECTRICAL PANEL, REF. 5/E-101
19. REDUCED PRESSURE BACKFLOW PREVENTER FOR DOMESTIC WATER SUPPLY.

GENERAL NOTES

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

F3 PUMP HOUSE EQUIPMENT LAYOUT DETAIL

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



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

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wood.

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1075 BIG SHANTY ROAD, NW, SUITE 100
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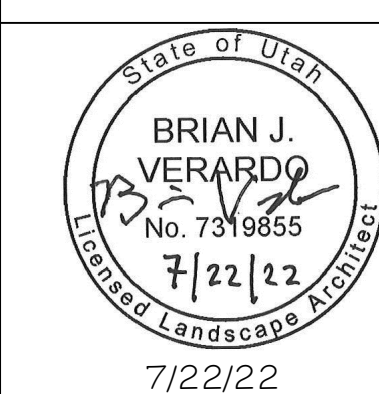
mrwmla.com 505 268 2266

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STAMP



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

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
BV

Drawn
JS

BID DOCUMENT SUBMITTAL

Project Number

942CM3001

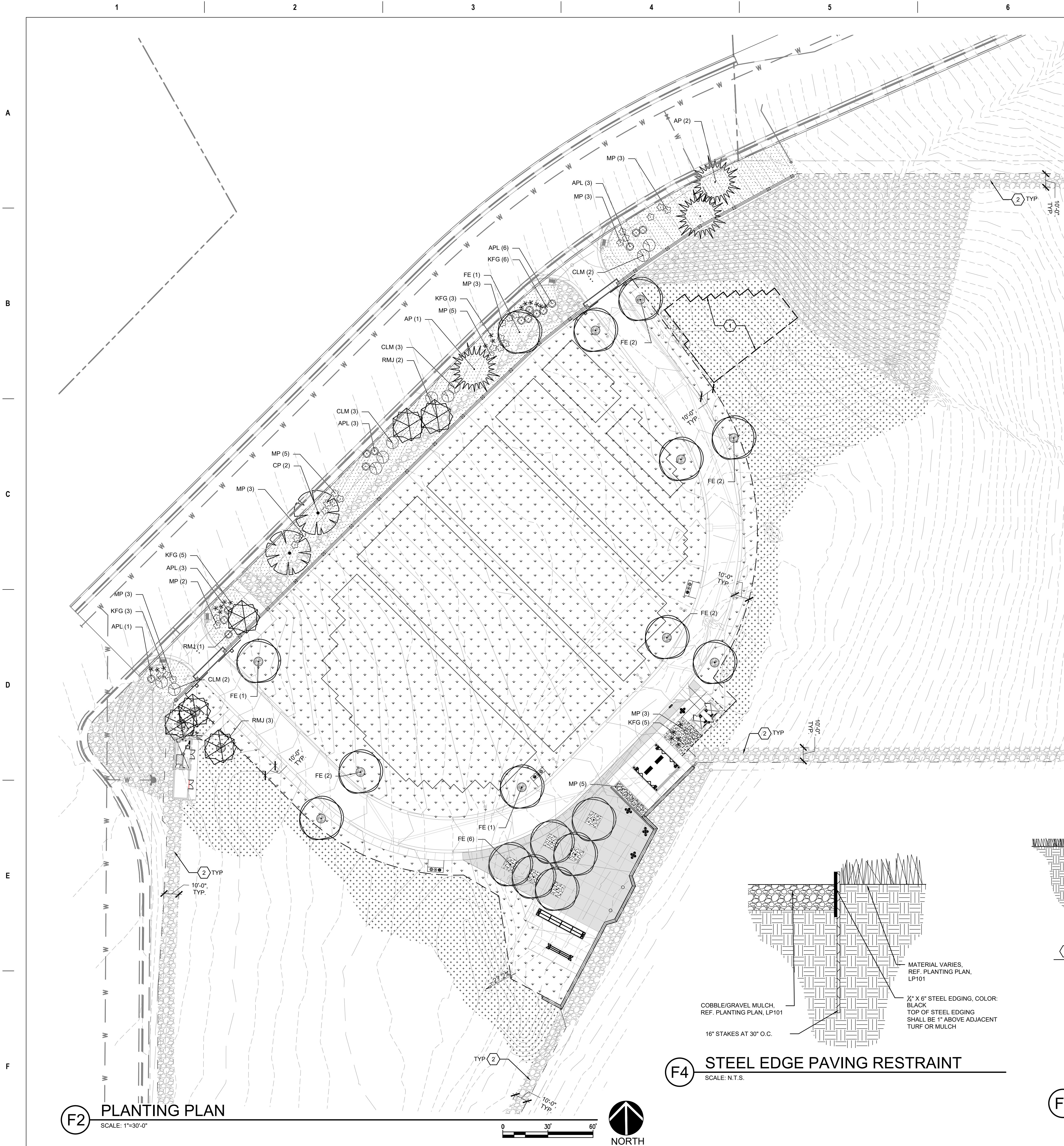
Building Number

N/A

Drawing Number

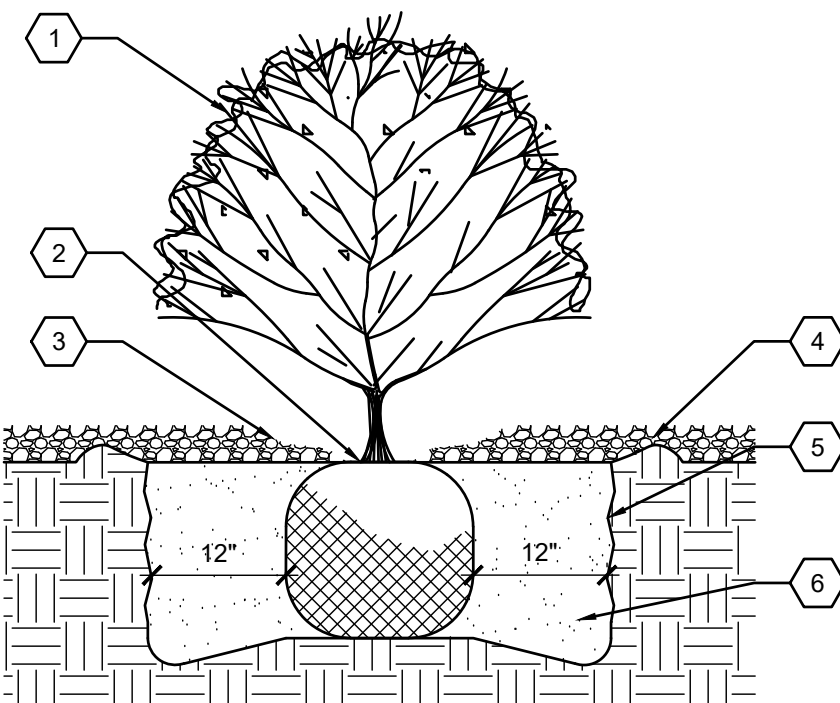
L1503

Sheet 29 of 61



PLANT LEGEND							
KEY	COMMON NAME	BOTANICAL NAME	QTY	INSTALLED SIZE	REMARKS	MATURE SIZE	
<u>TREES</u>							
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 SCOPULORUM	6	8'-10' HT.	B&B	25' HT. X 20' SPD.	
<u>SHRUBS/GRASSES</u>							
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.	

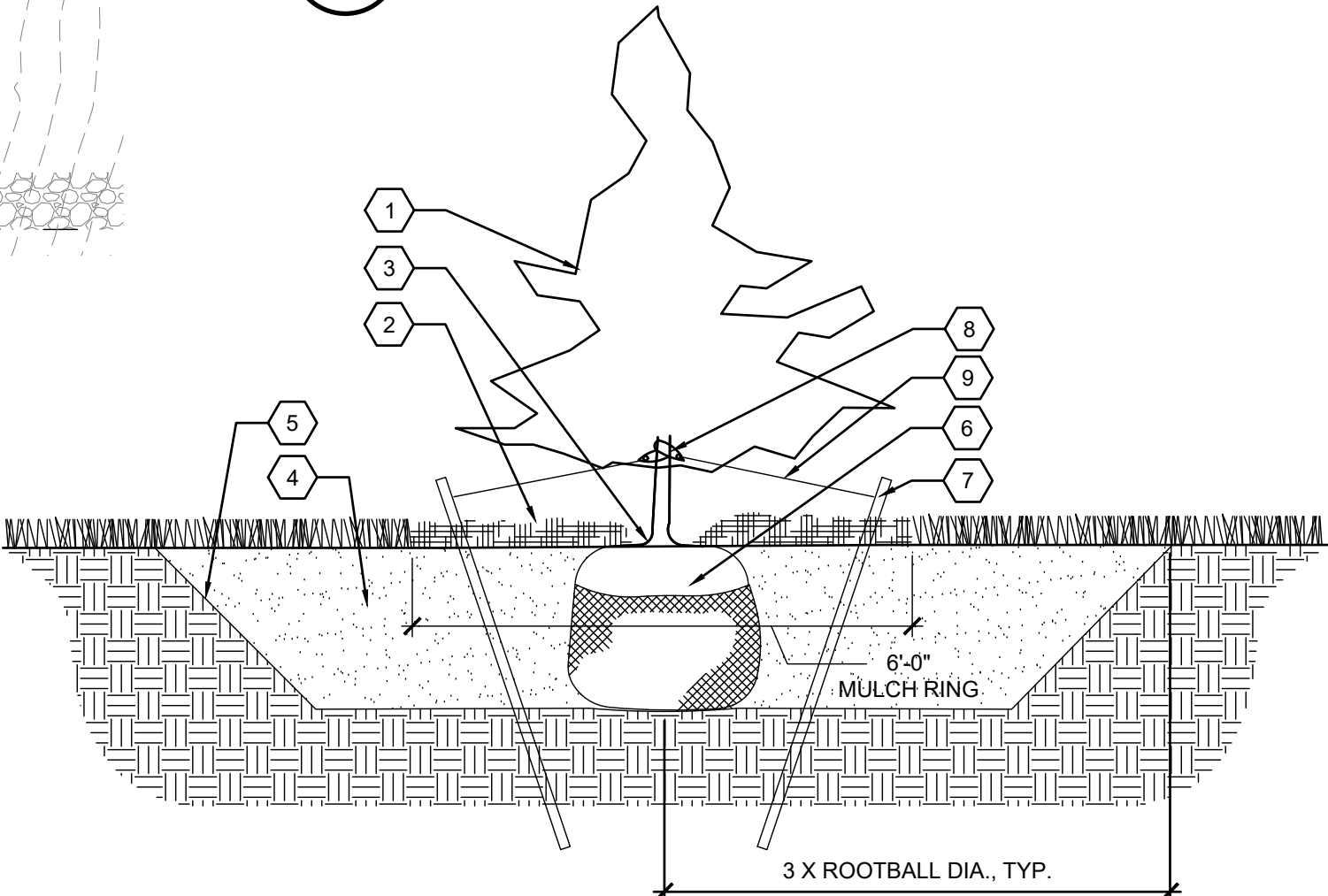
- HATCH LEGEND**
- 1" GRAVEL MULCH - SEE PLANTING NOTE B.
 - 2"-4" GRAVEL MULCH - SEE PLANTING NOTE C.
 - 4"-8" COBBLE MULCH - SEE PLANTING NOTE D.
 - TURFGRASS SOD - SEE PLANTING NOTE K.
 - REVEGETATION SEEDING - SEE PLANTING NOTE M.
 - 6" DIAMETER SHREDDED HARDWOOD MULCH RING - SEE PLANTING NOTE L.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



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

D7 SHRUB PLANTING DETAIL

SCALE: N.T.S.



- KEYED NOTES**
- TREE LOCATION AND SPECIES PER PLAN.
 - 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. TREES LOCATED IN PLANTING BEDS SHALL BE MULCHED IN THE SAME MANNER WITH THE SAME MULCH SPECIFIED IN PLANTING BED.
 - REMOVED EXISTING SOIL (FROM NURSERY) AS NEEDED TO EXPOSE ROOT FLARE. INSTALL WITH ROOT FLARE FLUSH WITH SUB-GRADE (BOTTOM OF MULCH).
 - ORNAMENTAL PLANTING MIX, THOROUGHLY MIX BACKFILL AND AMENDMENTS PRIOR TO INSTALLATION - SEE SPECIFICATIONS.
 - SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
 - REMOVE WIRE BASKET, WOOD BOX, PLASTIC TWINE, AND/OR ROPE PRIOR TO BACKFILL. REMOVE BURLAP EXCEPT FROM BOTTOM OF ROOT BALL.
 - 2" SQ. X 8" WOODEN STAKE, DRIVEN 18" MINIMUM INTO UNDISTURBED SOIL.
 - HOSE CHAFING GUARDS
 - GUING STRAPS.

F6 EVERGREEN TREE PLANTING DETAIL

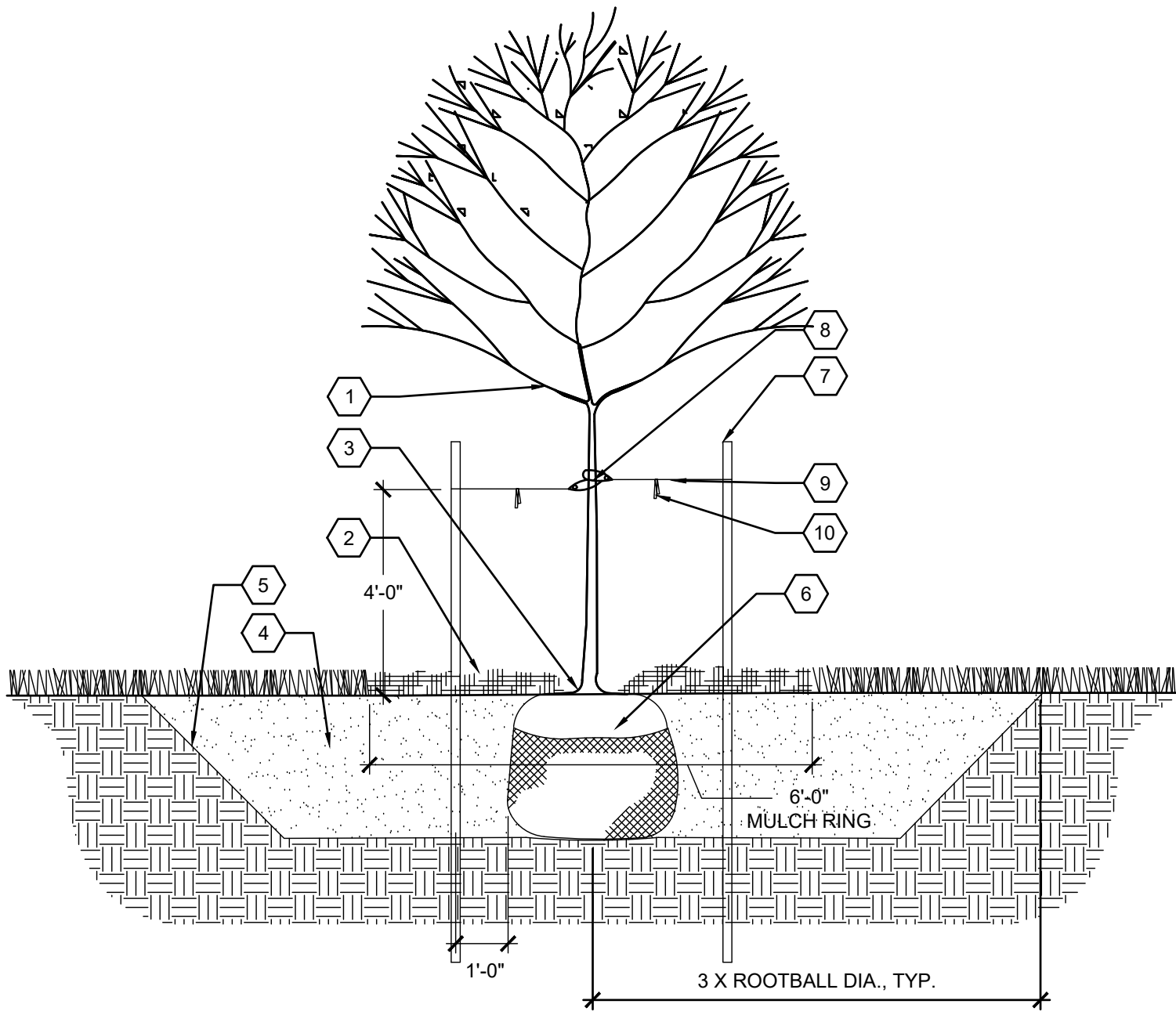
SCALE: N.T.S.

PLANTING NOTES

- 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.
- 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. 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. 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. 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 SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES AS DIRECTED BY LANDSCAPE ARCHITECT IN THE FIELD.
- TREES SHALL BE INSTALLED PER DETAILS F6 & F8/LP101.
- SHRUBS SHALL BE INSTALLED PER DETAIL D7/LP101.
- 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.
- 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.
- 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.
- 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.
- STEEL EDGING TO BE INSTALLED AS INDICATED ON PLAN, REF. DETAIL F4/LP101.

PLANTING KEYED NOTES

- UNDERGROUND STORMWATER DETENTION STRUCTURE. SEE CIVIL PLANS.
- REFER TO SHEET G-101 FOR TO SEE FULL EXTENTS OF DISTURBANCE ALONG FENCE LINE.



- KEYED NOTES**
- TREE LOCATION AND SPECIES PER PLAN.
 - 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.
 - REMOVED EXISTING SOIL (FROM NURSERY) AS NEEDED TO EXPOSE ROOT FLARE. INSTALL WITH ROOT FLARE FLUSH WITH SUB-GRADE (BOTTOM OF MULCH).
 - ORNAMENTAL PLANTING MIX, THOROUGHLY MIX BACKFILL AND AMENDMENTS PRIOR TO INSTALLATION - SEE SPECIFICATIONS.
 - SCARIFY EDGE OF PLANTING HOLE, CONTINUOUS ALL SIDES.
 - REMOVE WIRE BASKET, WOOD BOX, PLASTIC TWINE, AND/OR ROPE PRIOR TO BACKFILL. REMOVE BURLAP EXCEPT FROM BOTTOM OF ROOT BALL.
 - 2" SQ. X 8" WOODEN STAKE, DRIVEN 18" INTO UNDISTURBED SOIL.
 - HOSE CHAFING GUARDS
 - GUING STRAPS.
 - FLAGS

F8 TREE PLANTING DETAIL

SCALE: N.T.S.

F2 PLANTING PLAN

SCALE: 1"=30'-0"

F4 STEEL EDGE PAVING RESTRAINT

SCALE: N.T.S.

CD1- REDESIGN

Revisions:

1/22/2021

Date:

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STAMP

BRIAN J. VERARD
No. 7319855
7/22/22
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

Location
Cedar City, UT

Issue Date
7/22/2022

Checked
BV

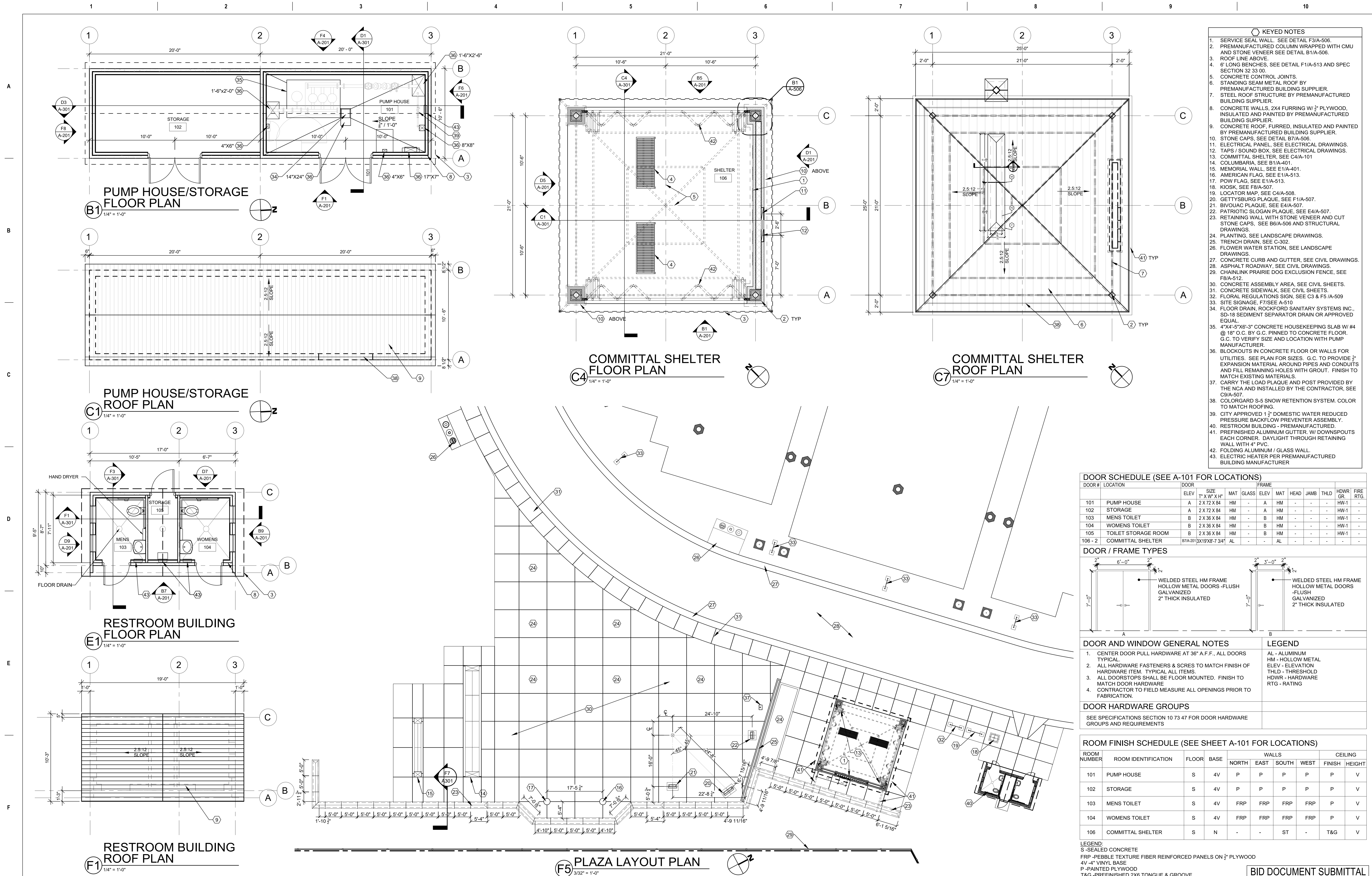
Drawn
JS

Project Number
942CM3001

Building Number
N/A

Drawing Number
LP101

Sheet 30 of 61



- 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 33 00.
 - CONCRETE CONTROL JOINTS.
 - STANDING SEAM METAL ROOF BY PREMANUFACTURED BUILDING SUPPLIER.
 - STEEL ROOF STRUCTURE BY PREMANUFACTURED BUILDING SUPPLIER.
 - CONCRETE WALLS, 2X4 FURRING W/ 3/4" 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.
 - COLUMBARI, 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 F1/A-507.
 - BIVOUAC PLAQUE, SEE E4/A-507.
 - PATRIOTIC SLOGAN PLAQUE, SEE C3 & F5 /A-509.
 - 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"-5"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" 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
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	12X19'X8'-7 3/4"	AL	-	AL	-	-	-	-	-

DOOR / FRAME TYPES	

DOOR AND WINDOW GENERAL NOTES	LEGEND
1. CENTER DOOR PULL HARDWARE AT 36" A.F.F., ALL DOORS TYPICAL.	AL - ALUMINUM
2. ALL HARDWARE FASTENERS & SCRES TO MATCH FINISH OF HARDWARE ITEM. TYPICAL ALL ITEMS.	HM - HOLLOW METAL
3. ALL DOORSTOPS SHALL BE FLOOR MOUNTED. FINISH TO MATCH DOOR HARDWARE.	ELEV - ELEVATION
4. CONTRACTOR TO FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION.	THLD - THRESHOLD
	HWDR - HARDWARE
	RTG - RATING

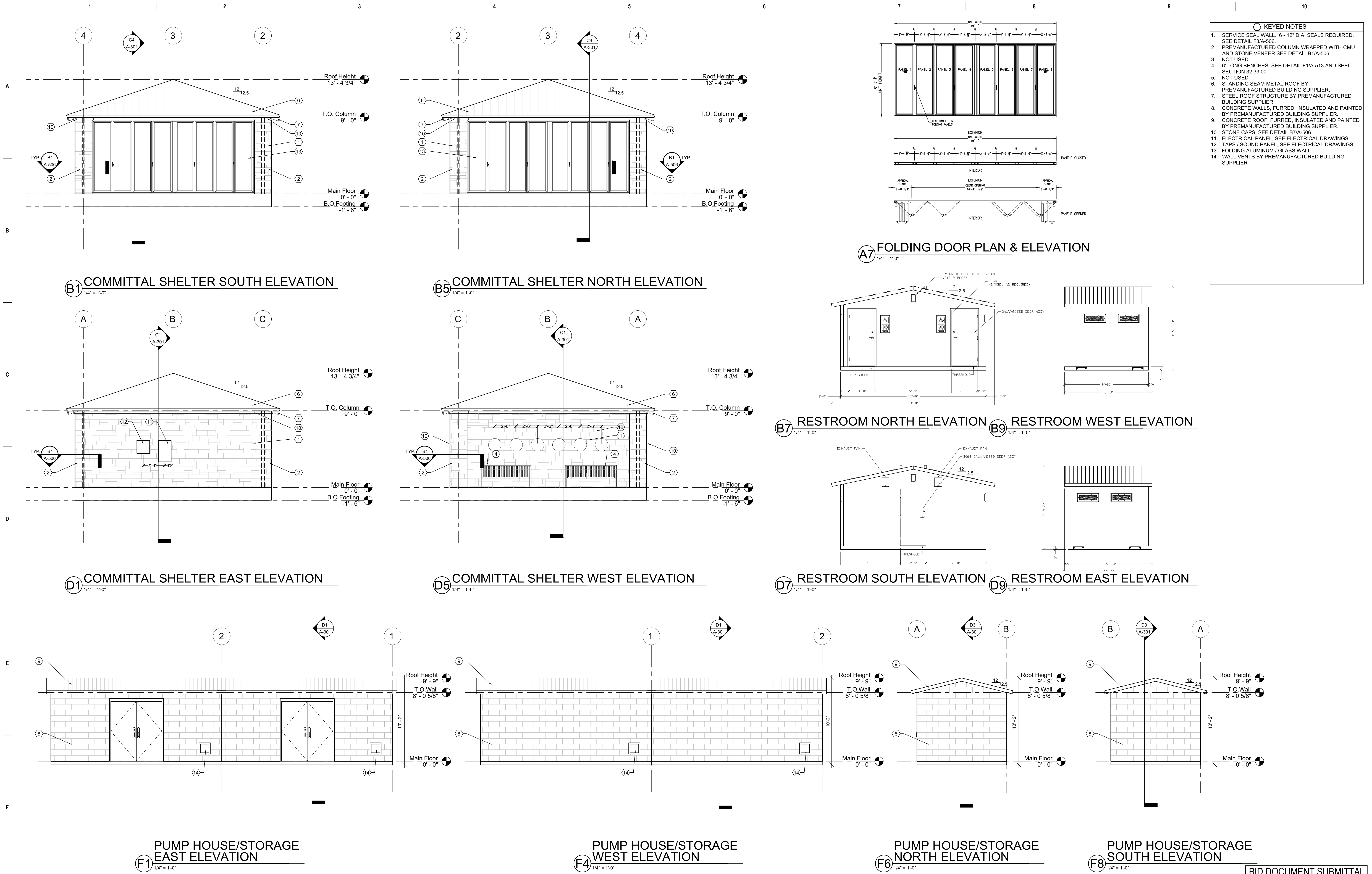
DOOR HARDWARE GROUPS	
SEE SPECIFICATIONS SECTION 10 73 47 FOR DOOR HARDWARE GROUPS AND REQUIREMENTS	

ROOM FINISH SCHEDULE (SEE SHEET A-101 FOR LOCATIONS)								
ROOM NUMBER	ROOM IDENTIFICATION	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING
101	PUMP HOUSE	S	4V	P	P	P	P	V
102	STORAGE	S	4V	P	P	P	P	V
103	MENS TOILET	S	4V	FRP	FRP	FRP	FRP	V
104	WOMENS TOILET	S	4V	FRP	FRP	FRP	FRP	V
106	COMMITTAL SHELTER	S	N	-	-	ST	-	T&G

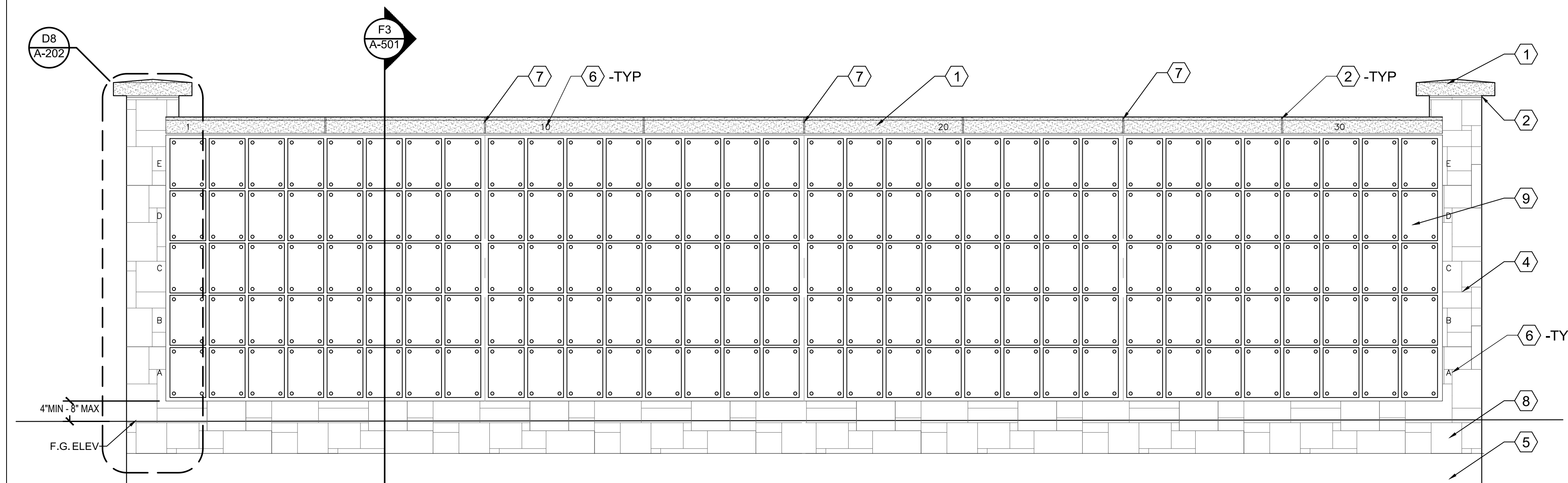
LEGEND:
S-SEALED CONCRETE
FRP -PEBBLE TEXTURE FIBER REINFORCED PANELS ON 1/2" PLYWOOD
4V-4" VINYL BASE
P-PAINTED PLYWOOD
T&G-PREFINISHED 2X6 TONGUE & GROOVE

BID DOCUMENT SUBMITTAL

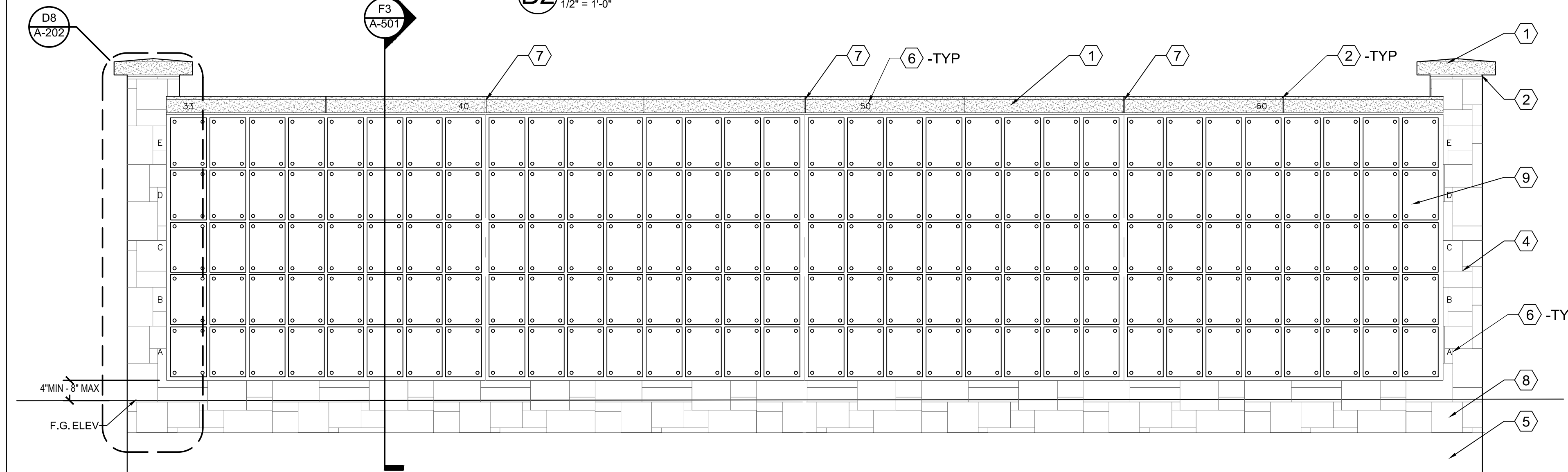
CONSULTANT wood. Environment & Infrastructure Solutions, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400	ARCHITECT/ENGINEER OF RECORD MRWM LANDSCAPE ARCHITECTS mrwmla.com 505 268 2266	ARCHITECT/ENGINEER OF RECORD VCI Project Management Construction Management Engineering 18300 East 71st Ave., Denver, CO, 80249 504.684.4408; Sean Fitzpatrick	STAMP 	National Cemetery Administration Design and Construction Service 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	Project Number 942CM3001 Building Number N/A Drawing Number A-101 Sheet 31 of 61
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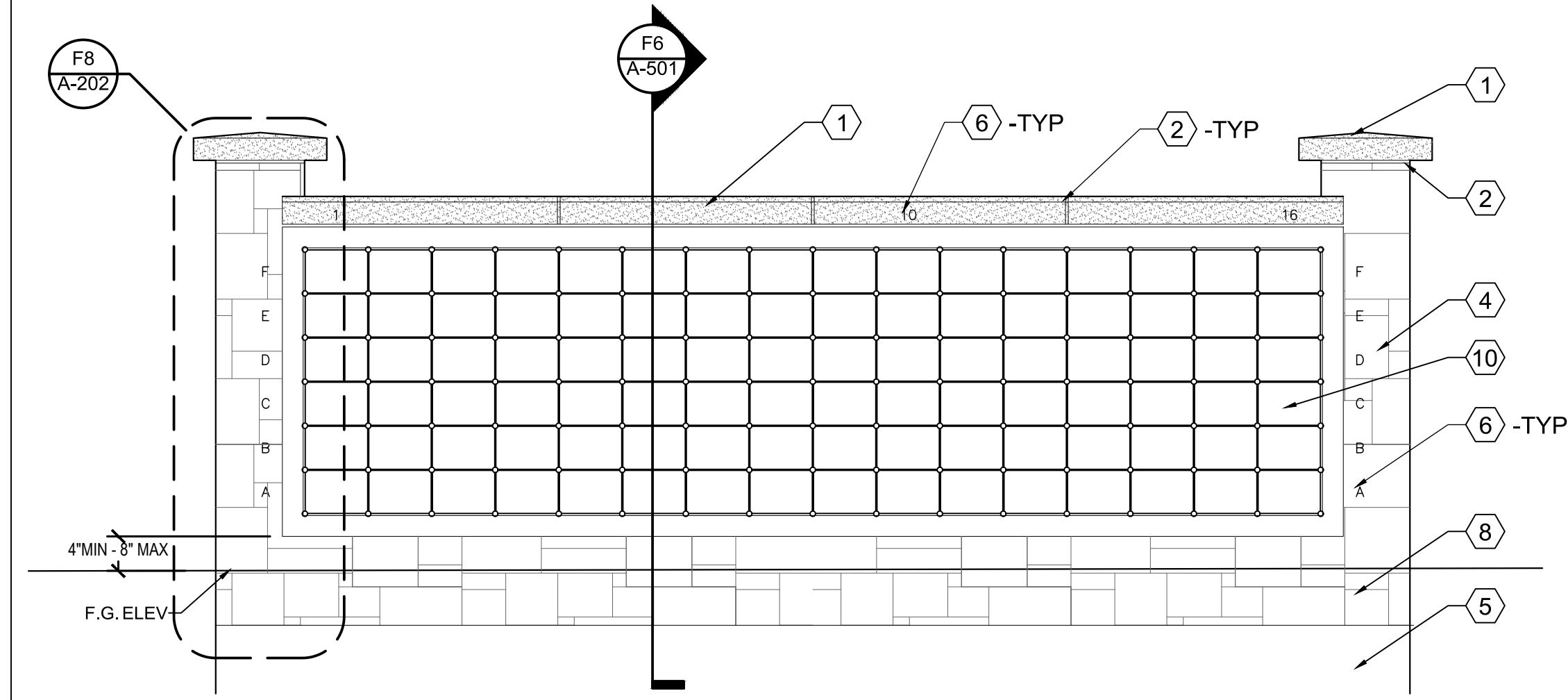
<div>CD1 - REDESIGN</div> <div>Revisions:</div>	<div>1/22/2021</div> <div>Date:</div>	<div>CONSULTANT</div> <div>wood.</div> <div>Environment & Infrastructure Solutions, Inc.</div> <div>1075 BIG SHANTY ROAD, NW, SUITE 100</div> <div>KENNESAW, GEORGIA 30144 (770) 421-3400</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div>MRWM</div> <div>LANDSCAPE ARCHITECTS</div> <div>mrwmla.com 505 268 2266</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div>VCI</div> <div>Project Management</div> <div>Construction Management</div> <div>Engineering</div> <div>18300 East 71st Ave., Denver, CO, 80249</div> <div>504.684.4408; Sean Fitzpatrick</div>	<div>STAMP</div> <div>COLLEEN FITZPATRICK</div> <div>7/22/22</div>	<div>National Cemetery</div> <div>Administration</div> <div>Design and</div> <div>Construction</div> <div>Service</div> <div>VA</div> <div>U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>EXTERIOR ELEVATIONS</div> <div>Approved: Project Director</div> <div>Steve Davis</div> <div>Department of Veterans Affairs, NCA</div> <div>Phone: 202.632.4833</div> <div>Email: steve.davis@va.gov</div>	<div>Phase</div> <div>BID DOCUMENTS</div> <div>N/A</div>	<div>Project Title</div> <div>NATIONAL CEMETERY DEVELOPMENT</div> <div>CEDAR CITY RURAL INITIATIVE</div> <div>Location</div> <div>Cedar City, UT</div> <div>Issue Date</div> <div>7/22/2022</div> <div>Checked</div> <div>TM</div> <div>Drawn</div> <div>SF</div>	<div>Project Number</div> <div>942CM3001</div> <div>Building Number</div> <div>N/A</div> <div>Drawing Number</div> <div>A-201</div> <div>Sheet 32 of 61</div>
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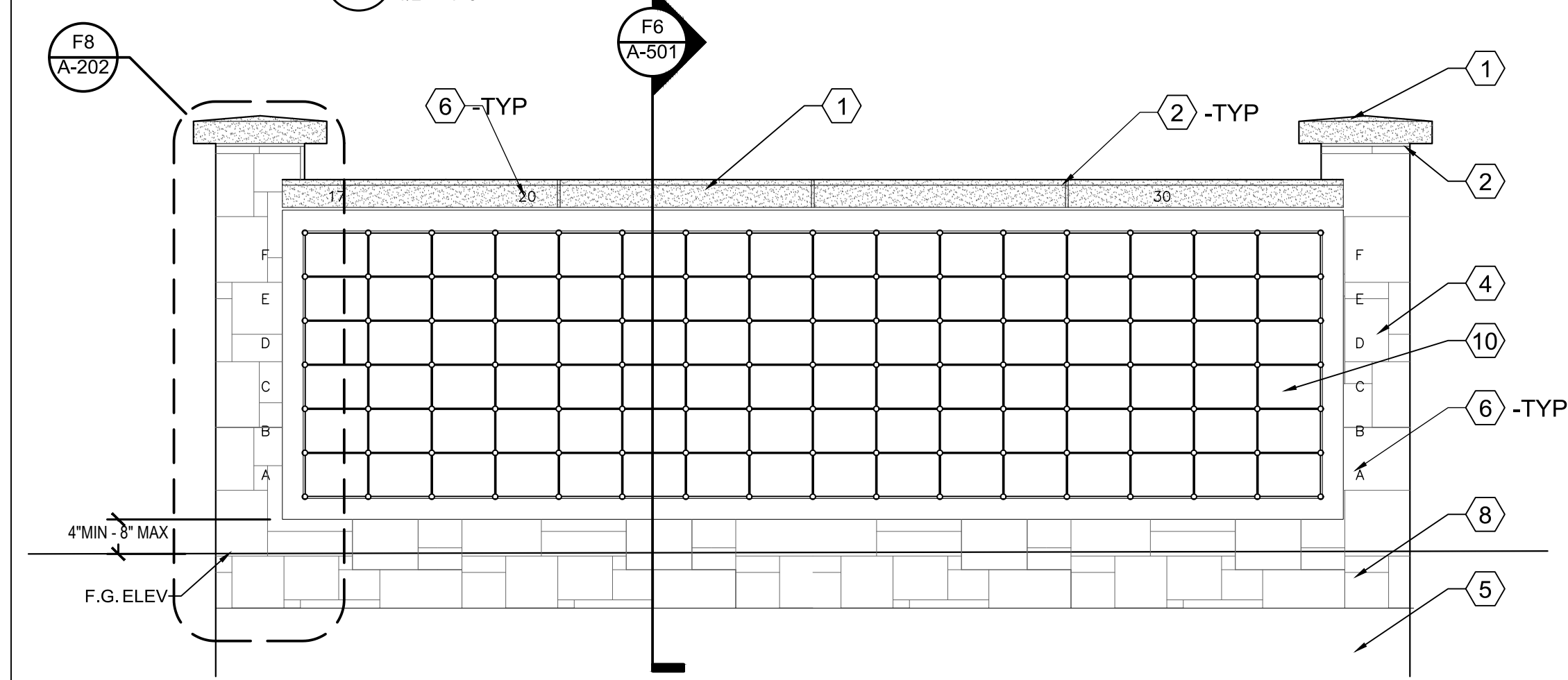
B2 COLUMBARIUM NORTH ELEVATION
1/2" = 1'-0"



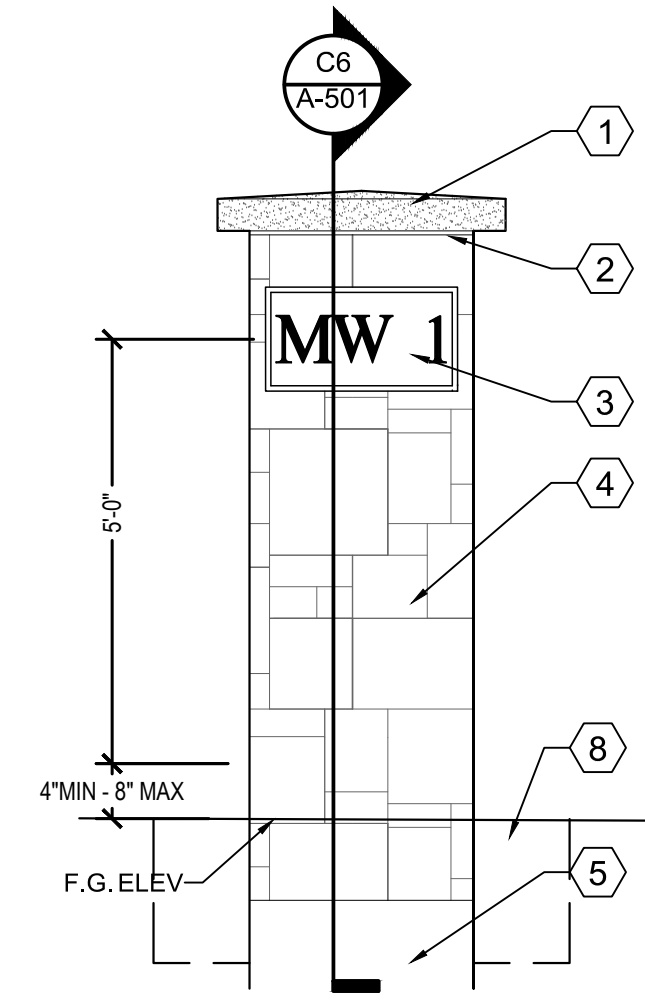
D2 COLUMBARIUM SOUTH ELEVATION
1/2" = 1'-0"



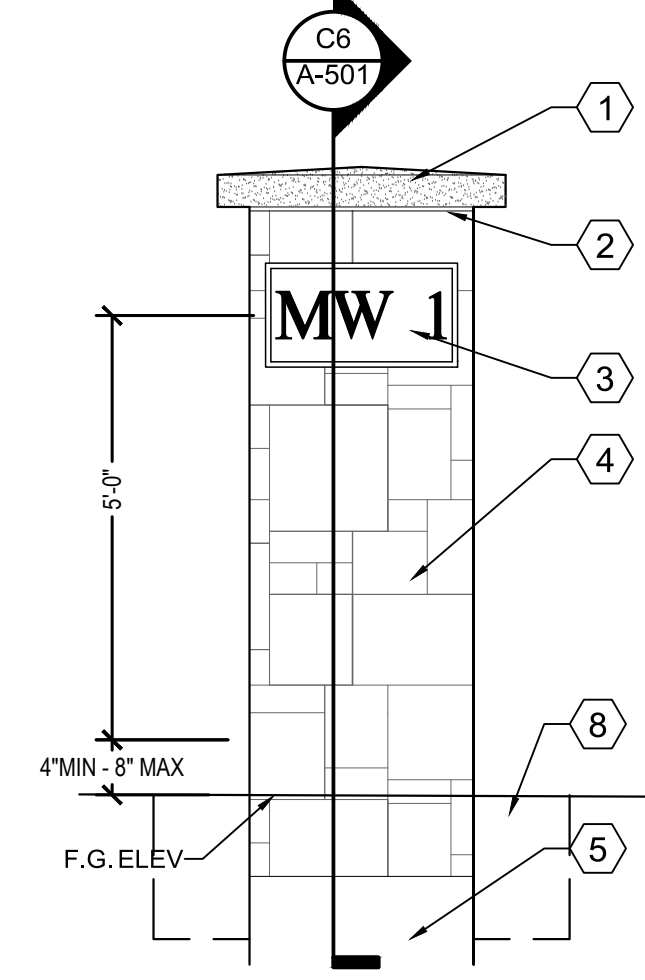
E1 MEMORIAL WALL NORTH ELEVATION
1/2" = 1'-0"



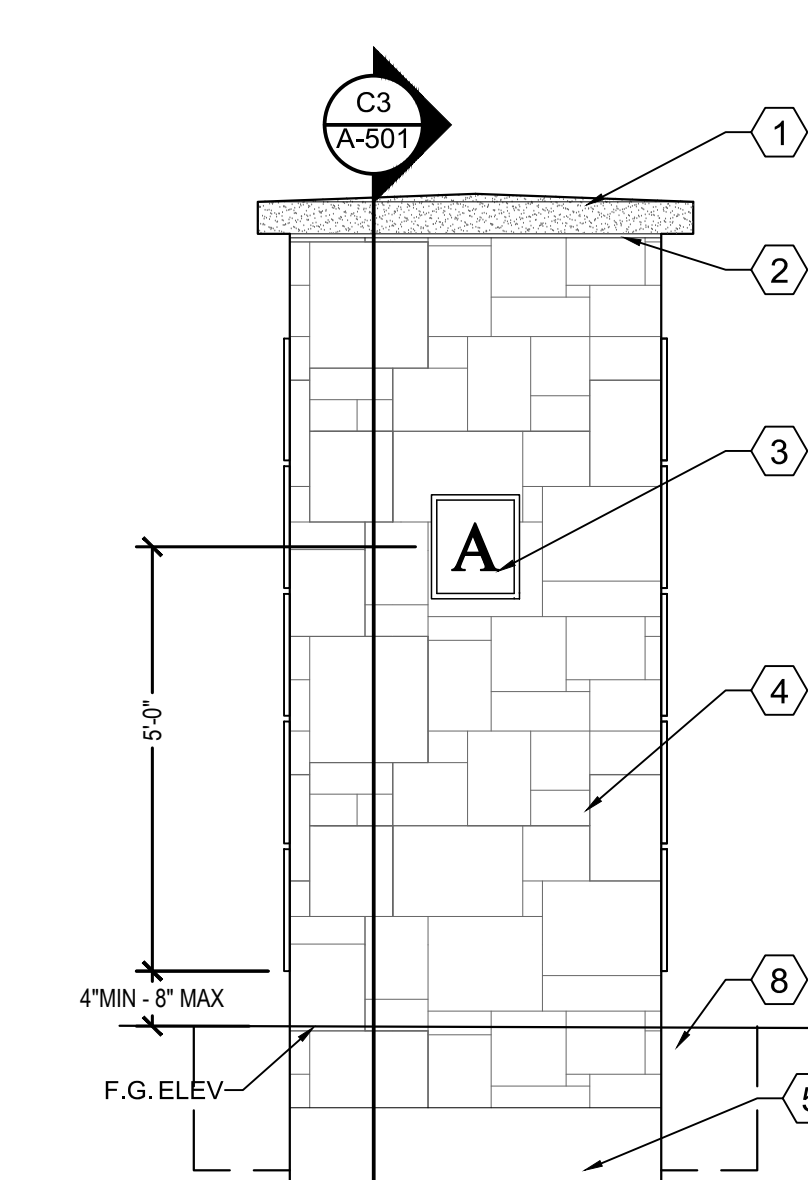
F1 MEMORIAL WALL SOUTH ELEVATION
1/2" = 1'-0"



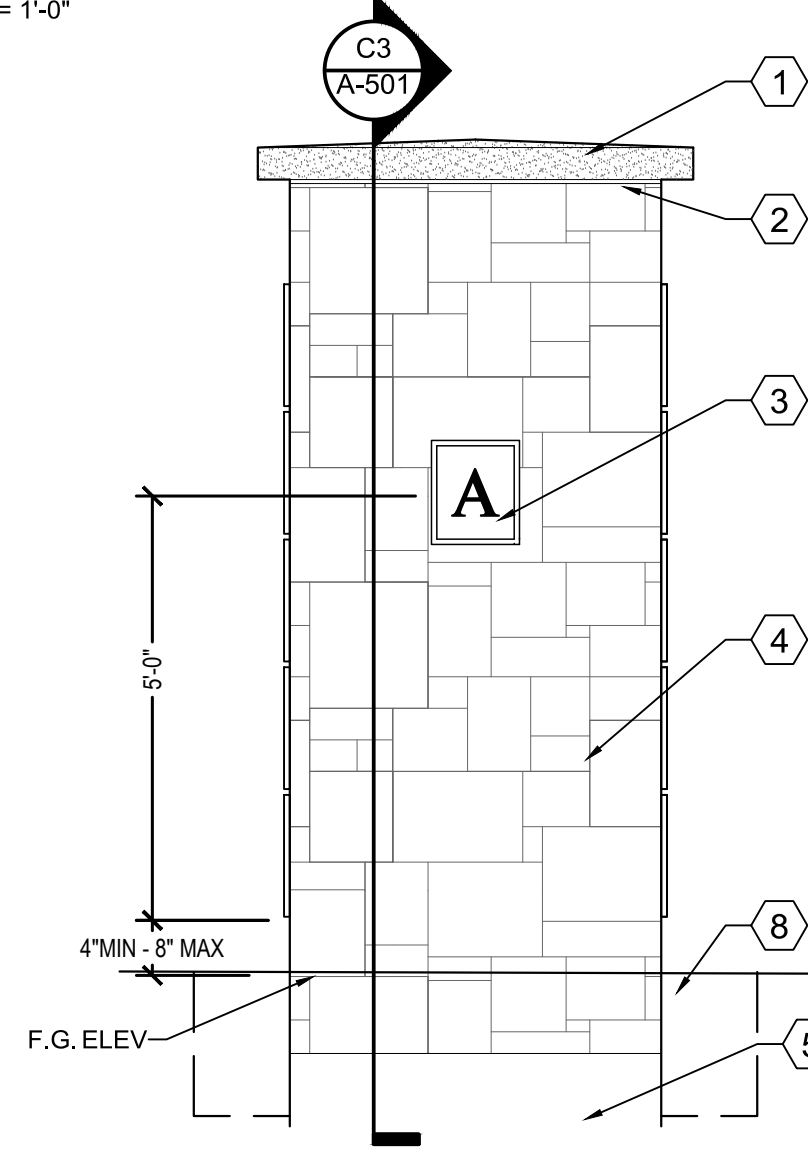
E4 MEMORIAL WALL EAST ELEVATION
1/2" = 1'-0"



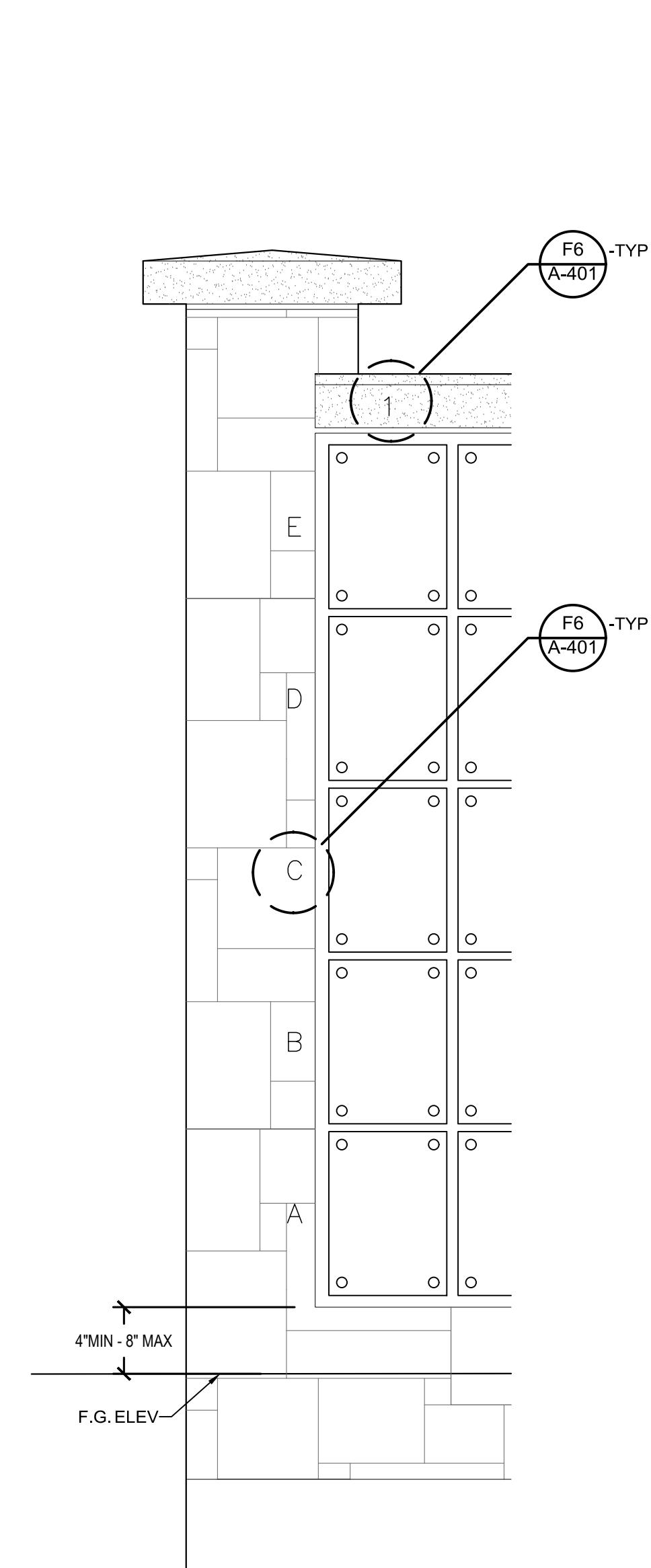
F4 MEMORIAL WALL WEST ELEVATION
1/2" = 1'-0"



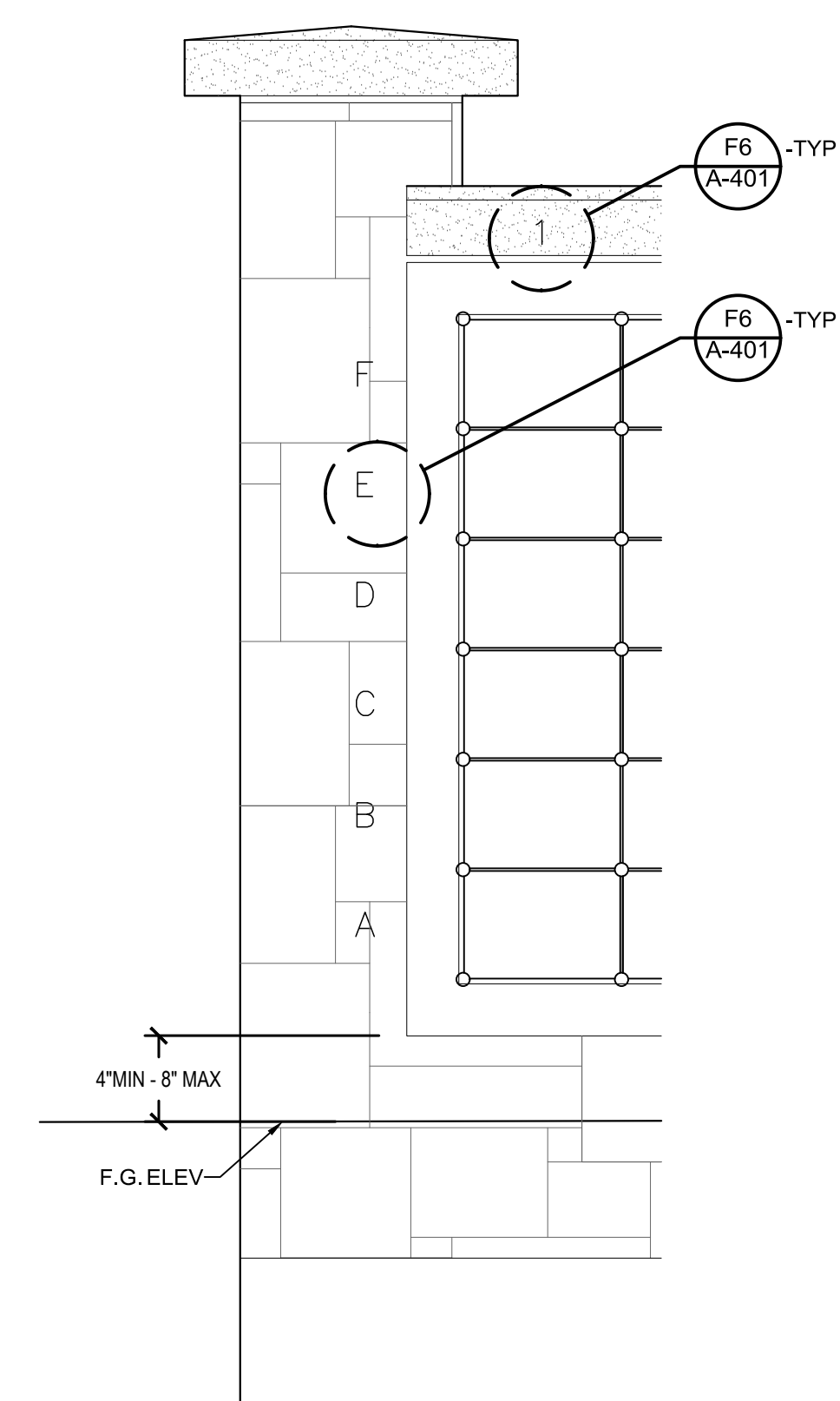
B6 COLUMBARIUM EAST ELEVATION
1/2" = 1'-0"



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



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



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

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

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

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STAMP

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
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

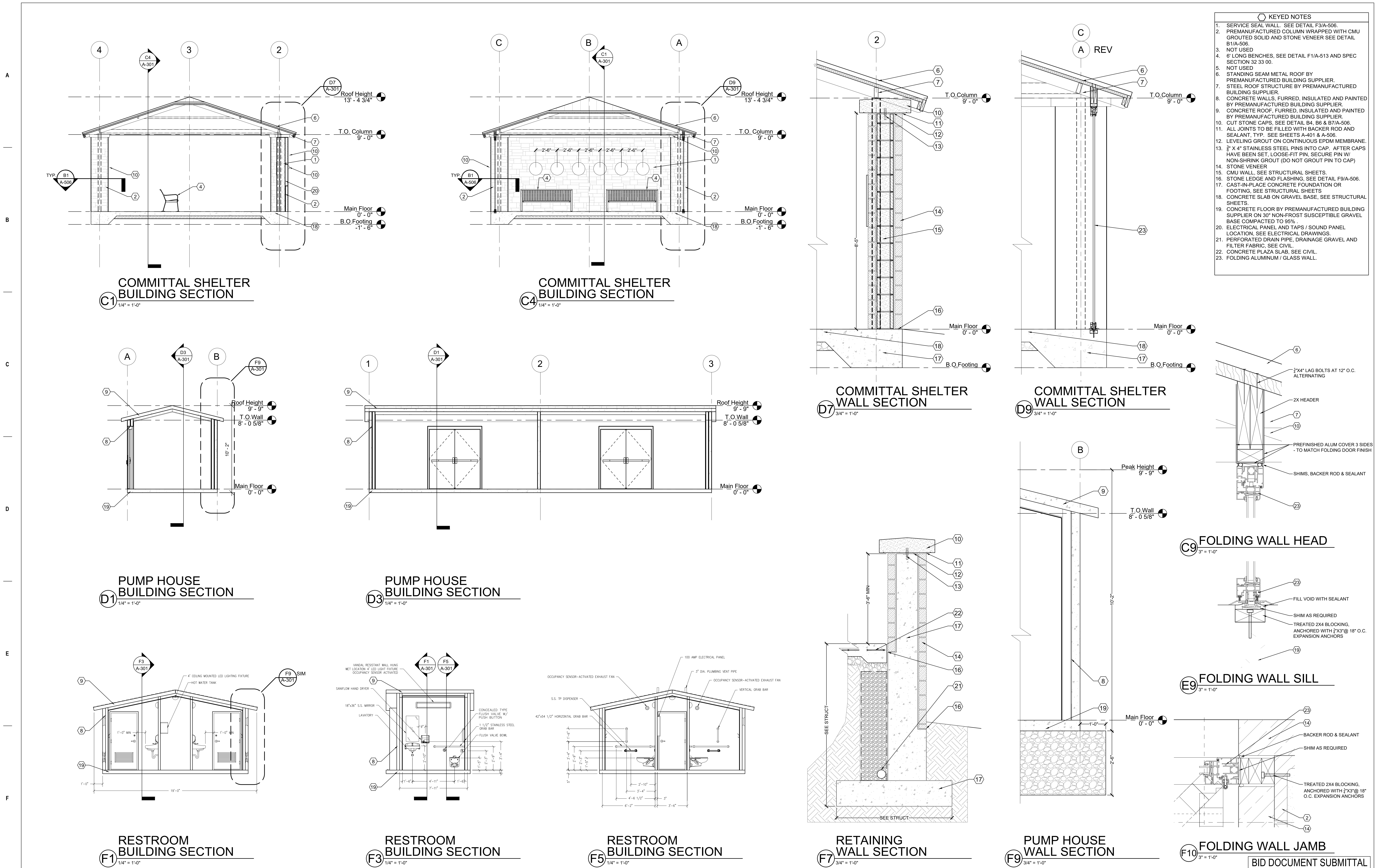
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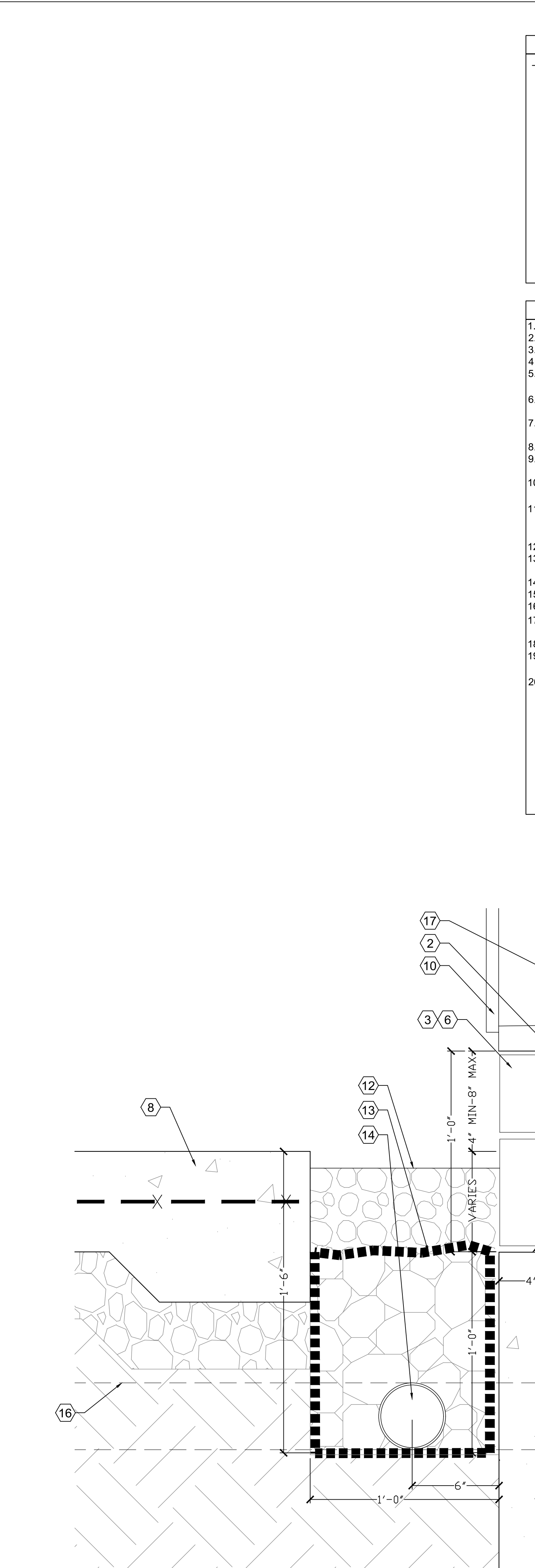
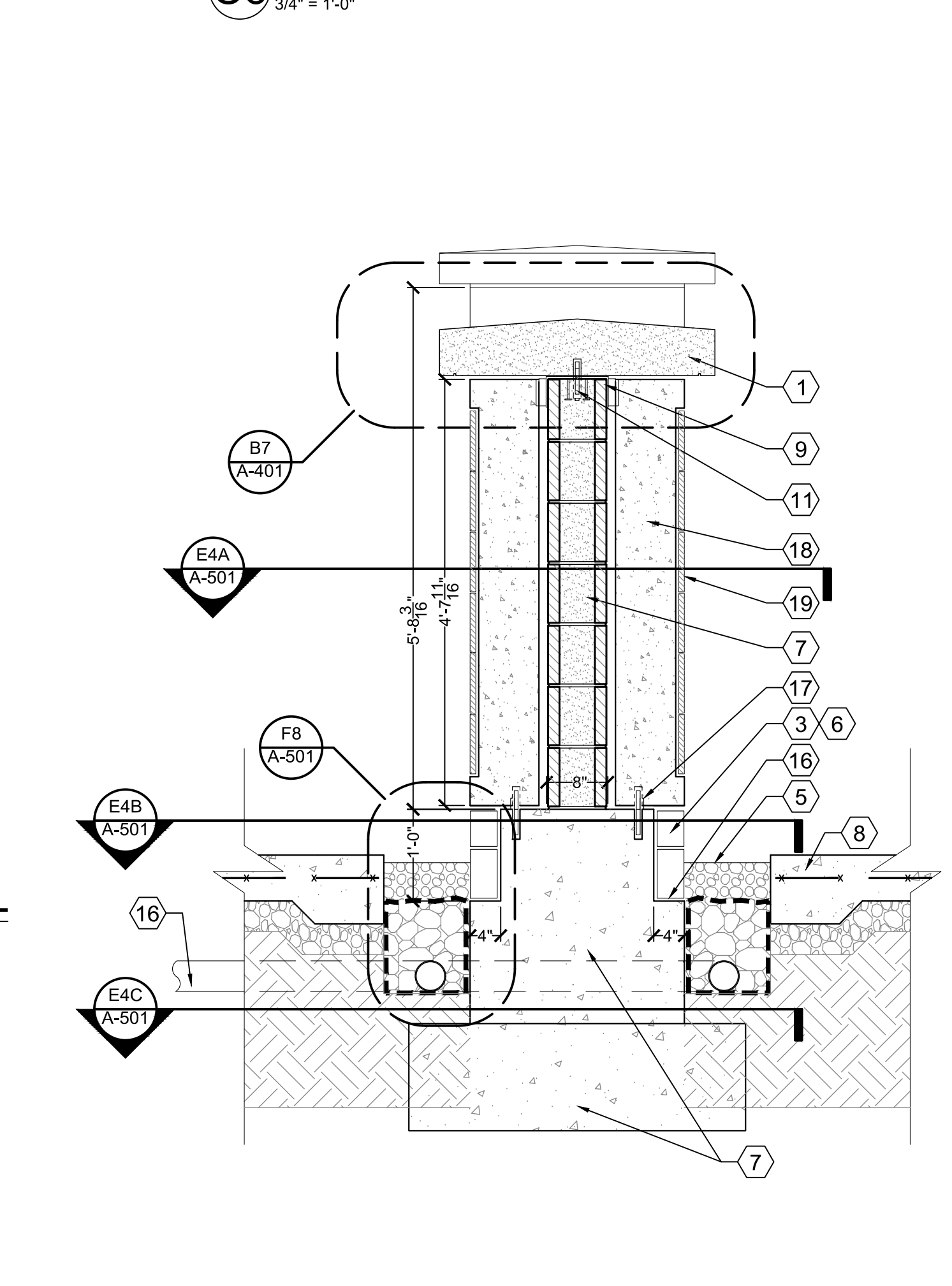
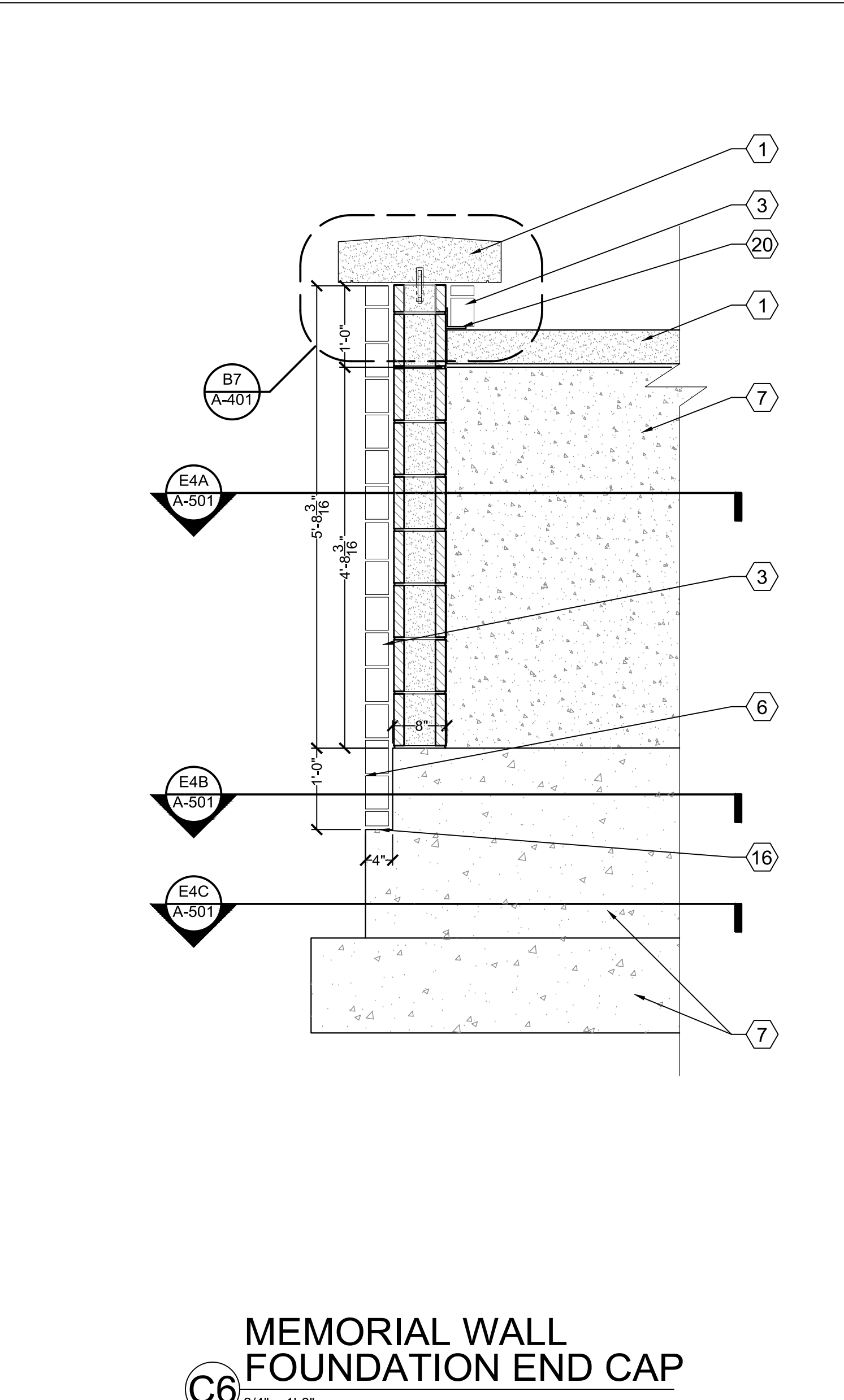
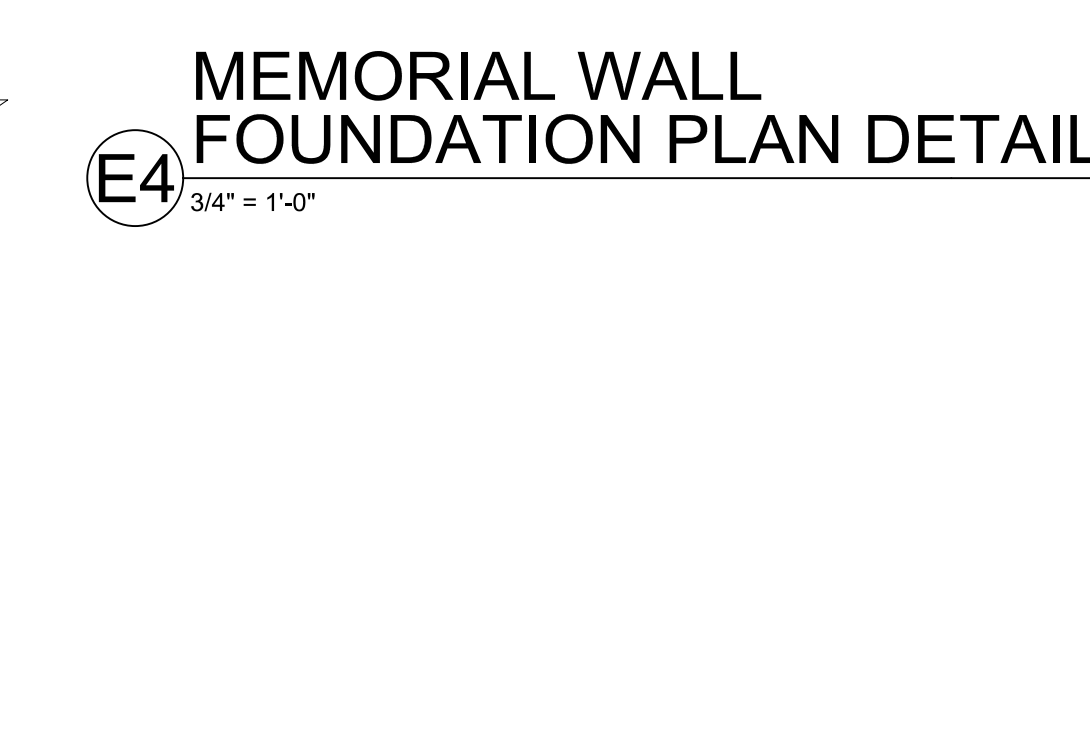
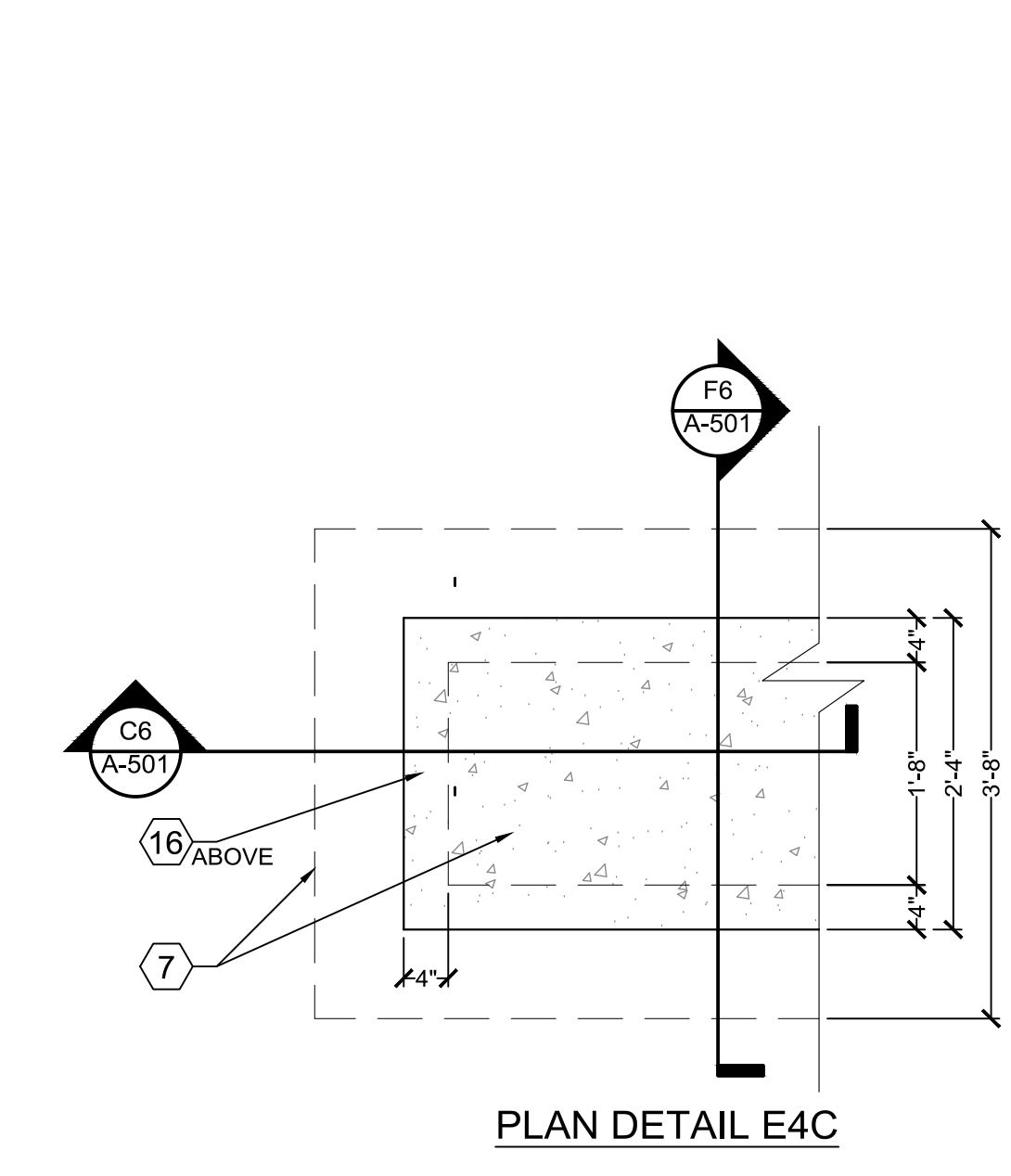
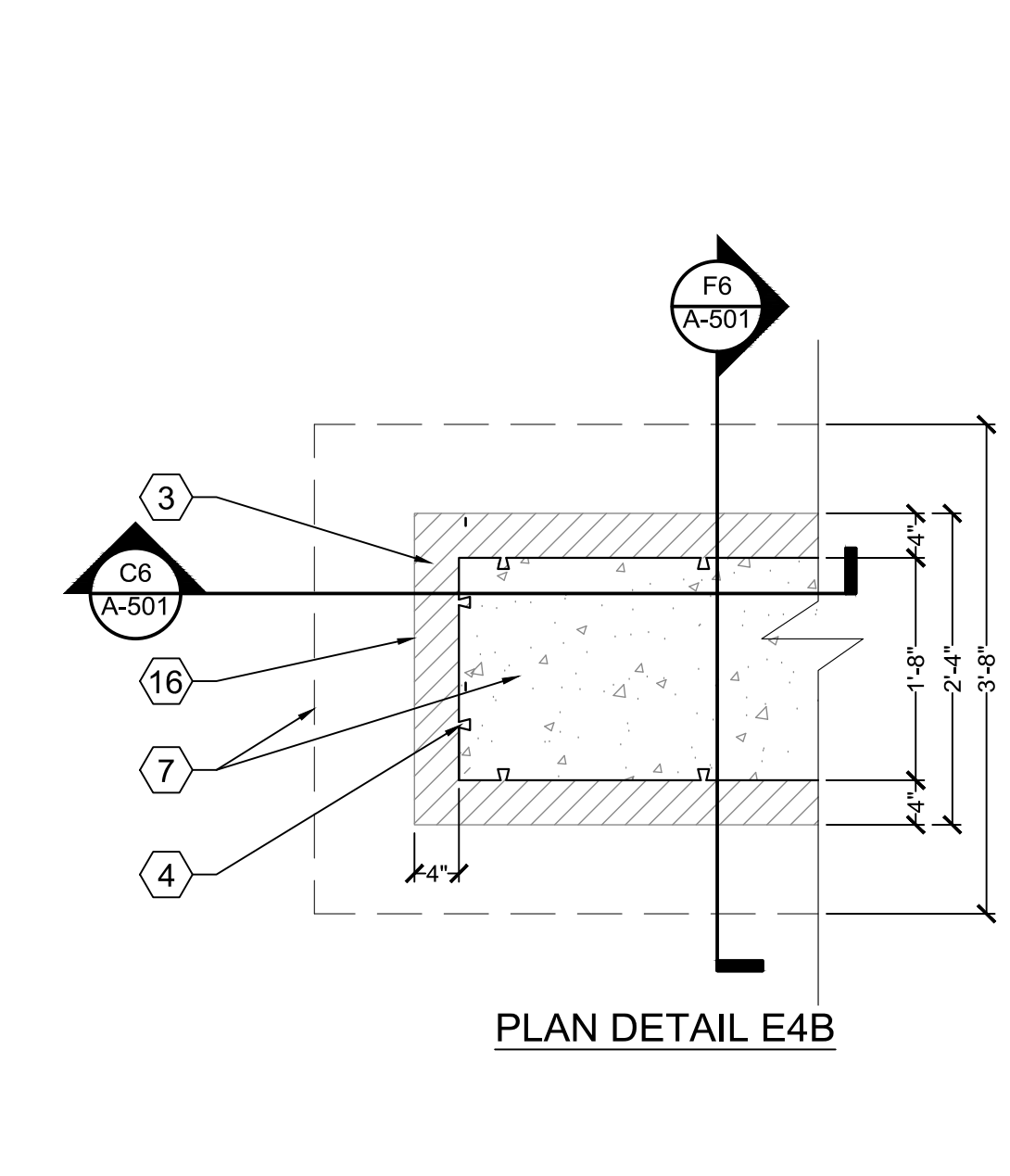
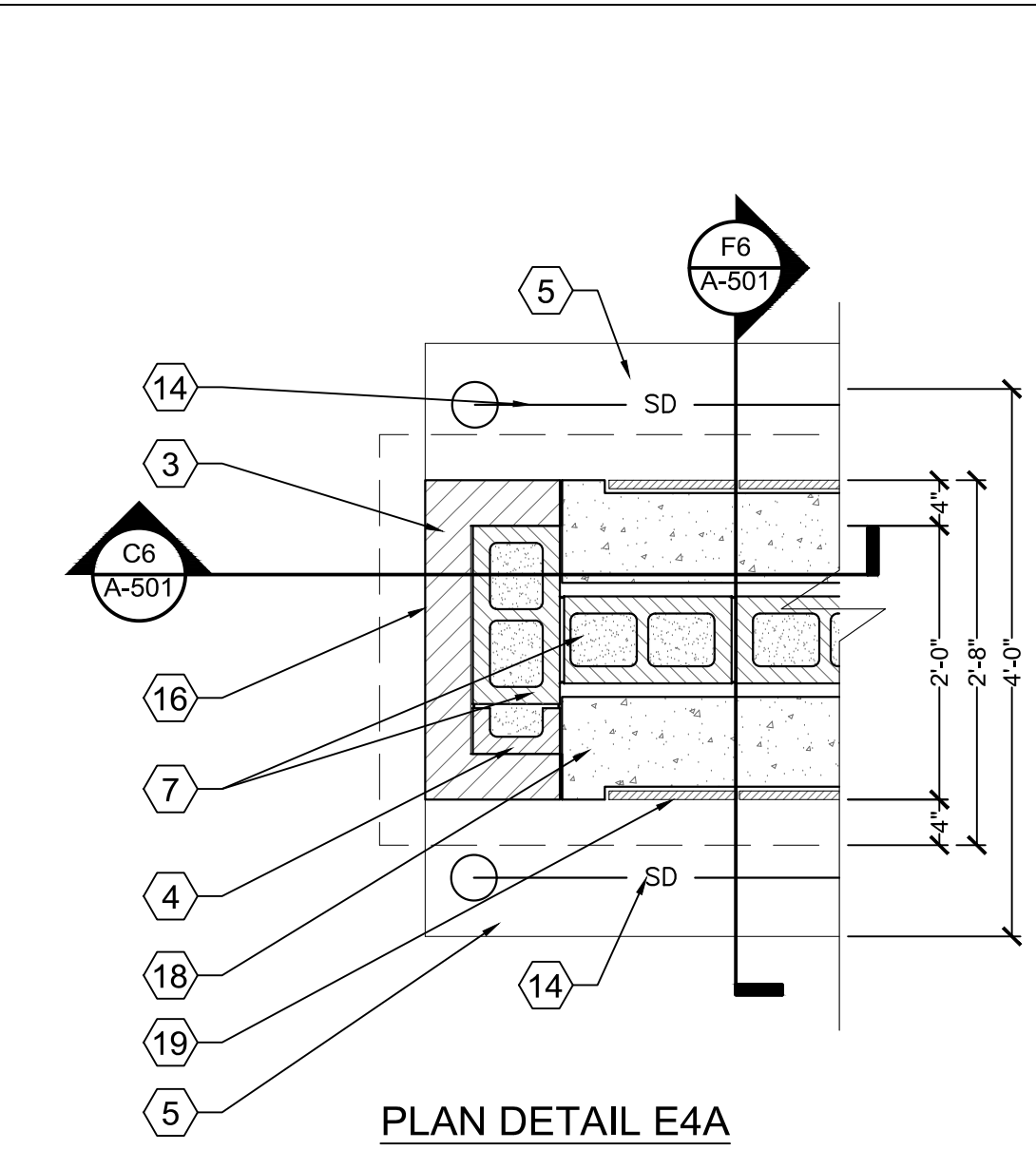
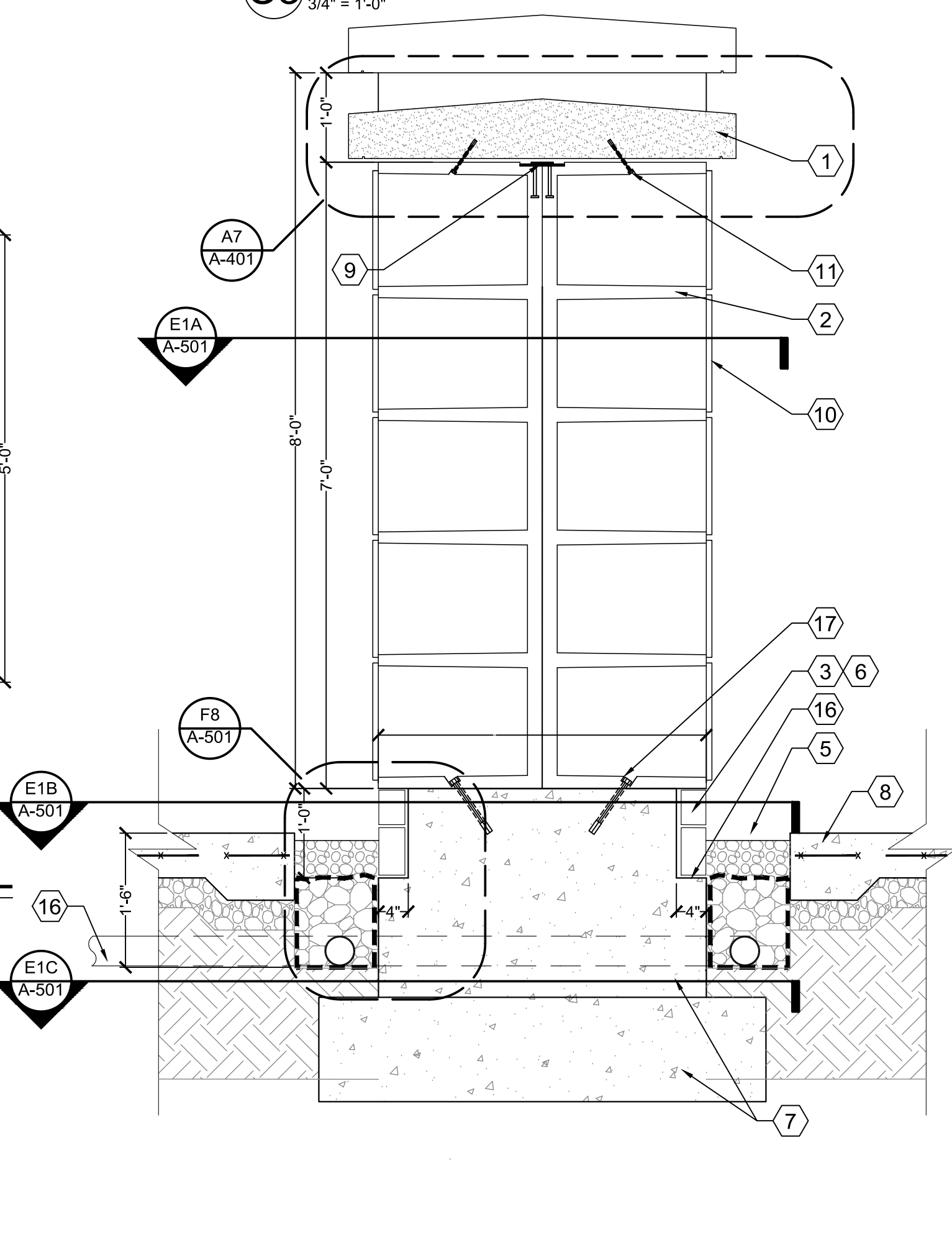
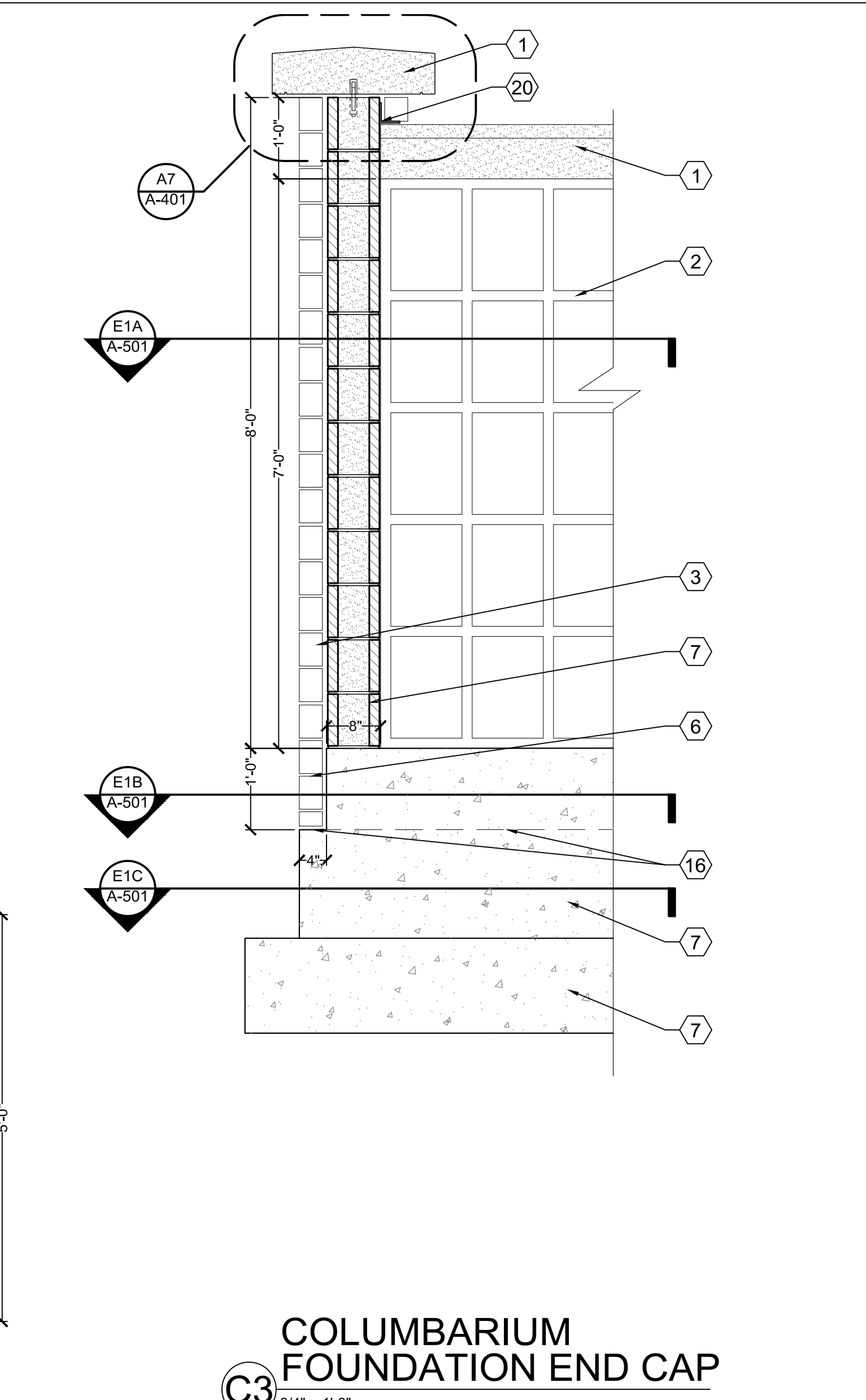
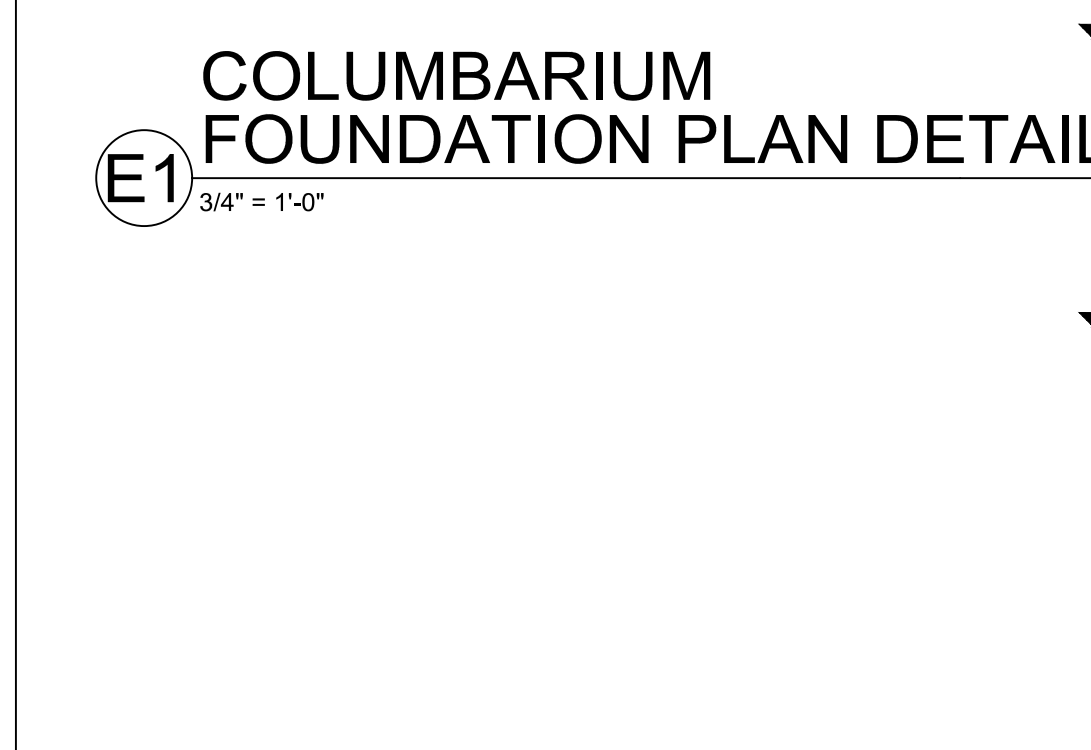
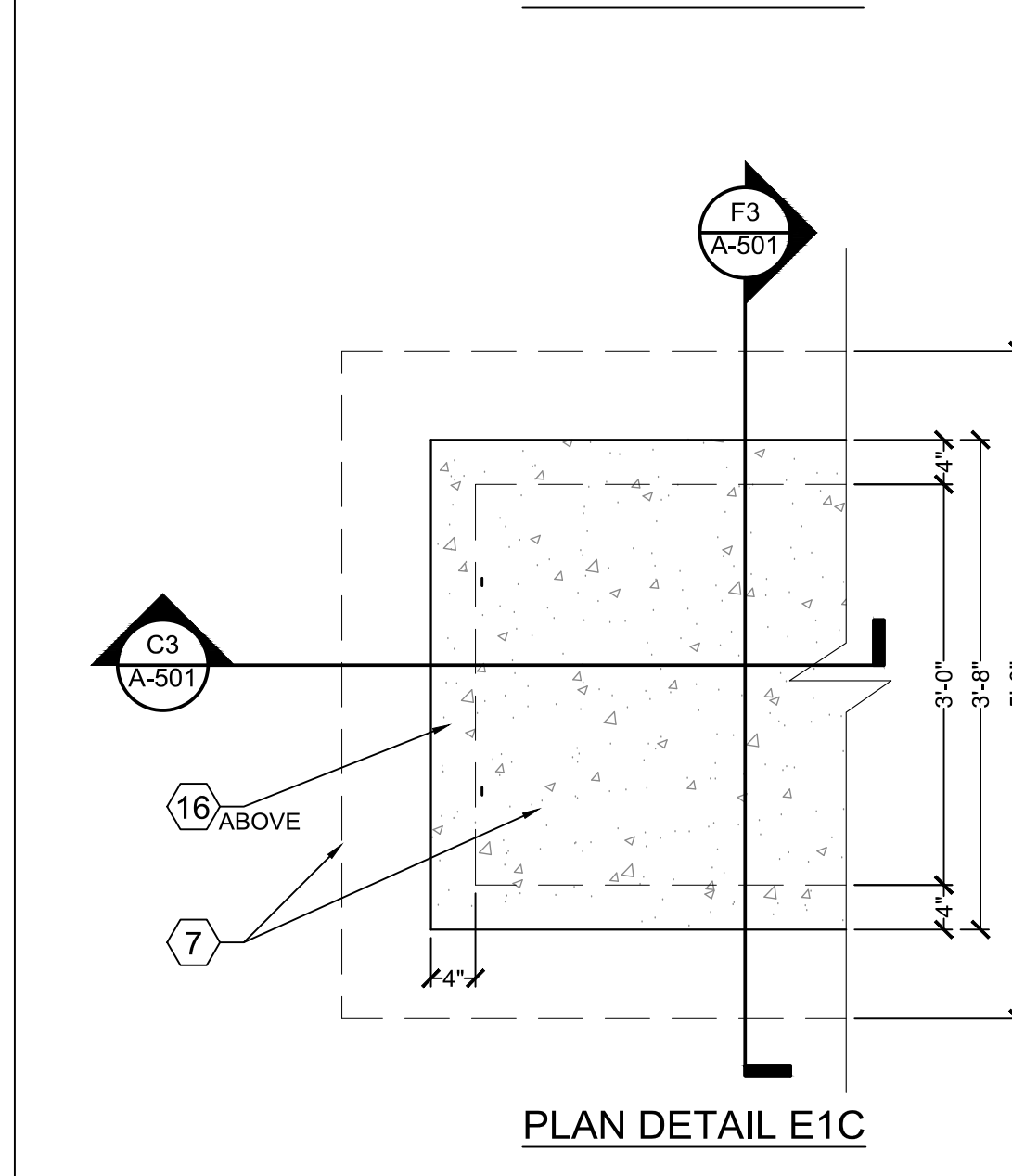
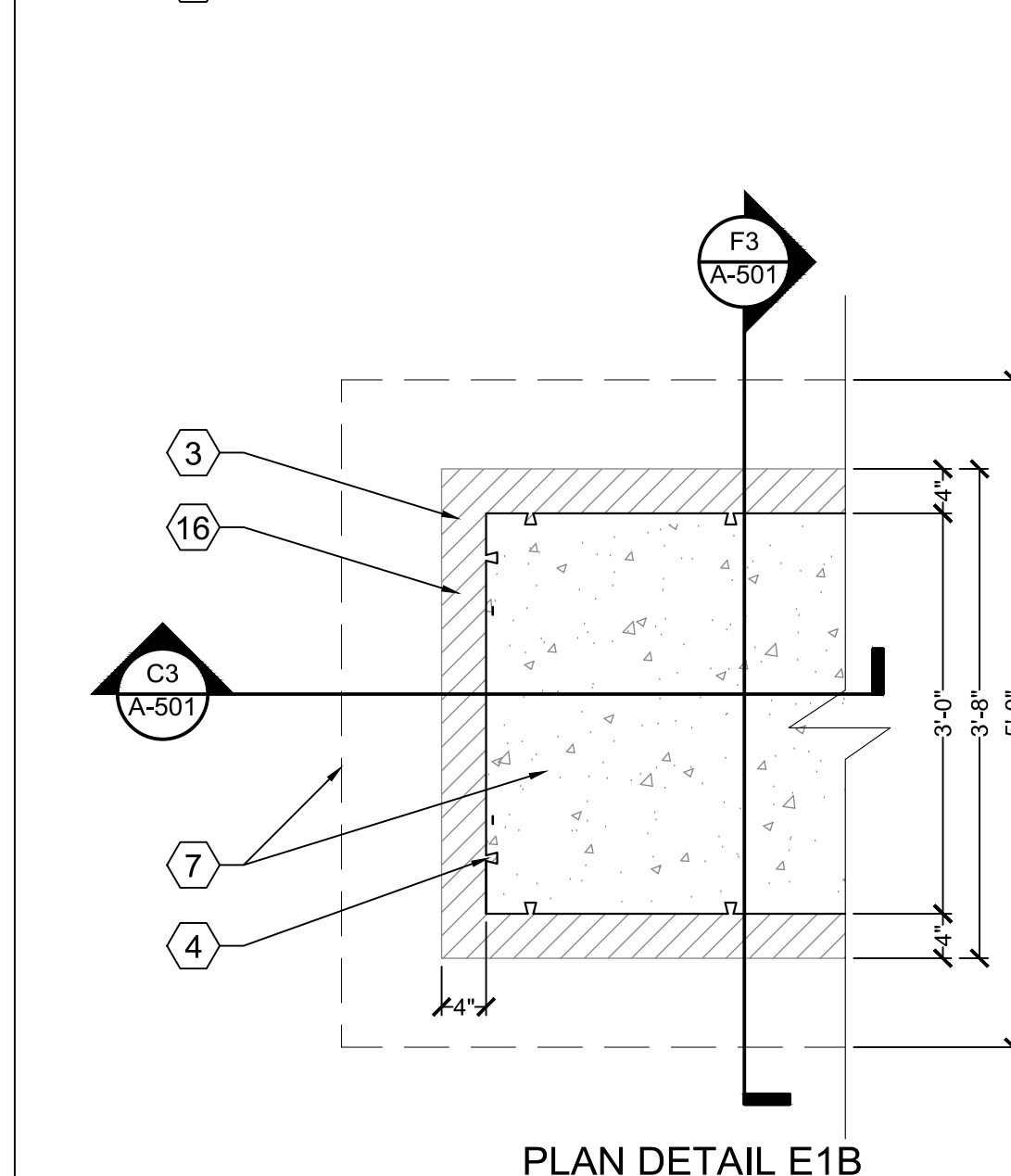
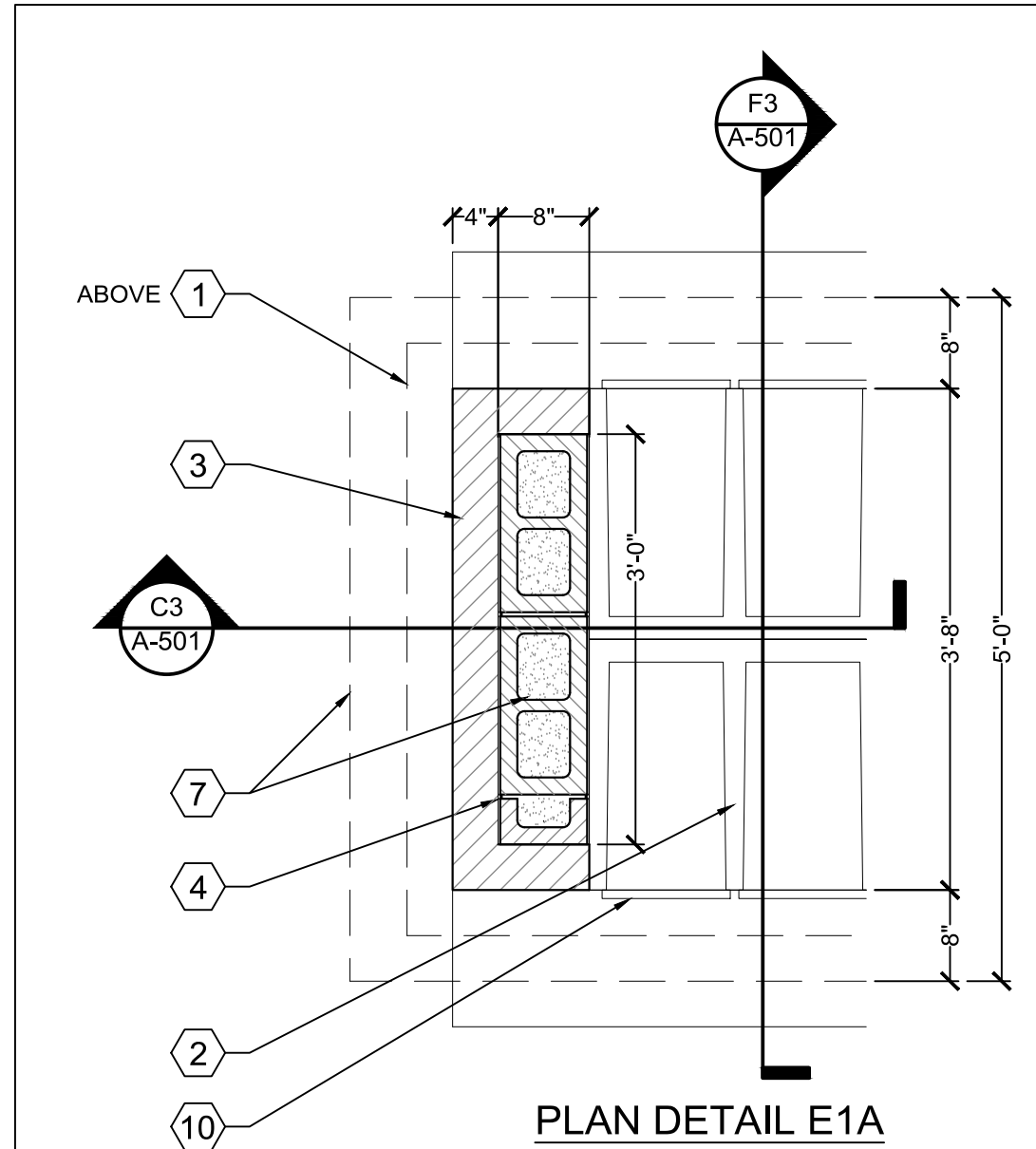
Drawing Number

A-202

Sheet 33 of 61



<div>CD1 - REDESIGN</div> <div>Revisions:</div>		<div>1/22/2021</div> <div>Date:</div>	<div>CONSULTANT</div> <div>wood.</div> <div>Environment & Infrastructure Solutions, Inc.</div> <div>1075 BIG SHANTY ROAD, NW, SUITE 100</div> <div>KENNESAW, GEORGIA 30144 (770) 421-3400</div>		<div>MRWM</div> <div>LANDSCAPE ARCHITECTS</div> <div>mrwmla.com</div> <div>505 268 2266</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div>VCI</div> <div>Project Management</div> <div>Construction Management</div> <div>Engineering</div> <div>18300 East 71st Ave., Denver, CO, 80249</div> <div>504.684.4408; Sean Fitzpatrick</div>	<div>STAMP</div> <div>COLLEDO LICENSED</div> <div>7/22/22</div>	<div>National Cemetery</div> <div>Administration</div> <div>Design and</div> <div>Construction</div> <div>Service</div> <div>VA</div> <div>U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>BUILDING & WALL SECTIONS</div> <div>Approved: Project Director</div> <div>Steve Davis</div> <div>Department of Veterans Affairs, NCA</div> <div>Phone: 202.632.4833</div> <div>Email: steve.davis@va.gov</div>	<div>Phase</div> <div>BID DOCUMENTS</div> <div>N/A</div>	<div>Project Title</div> <div>NATIONAL CEMETERY DEVELOPMENT</div> <div>CEDAR CITY RURAL INITIATIVE</div> <div>Location</div> <div>Cedar City, UT</div> <div>Issue Date</div> <div>7/22/2022</div> <div>Checked</div> <div>TM</div> <div>Drawn</div> <div>SF</div>	<div>Project Number</div> <div>942CM3001</div> <div>Building Number</div> <div>N/A</div> <div>Drawing Number</div> <div>A-301</div> <div>Sheet</div> <div>34 of 61</div>
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LEGEND AND SYMBOLS	
SD	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.
 - 3/4" 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. WASHED #57 STONE WRAPPED WITH 80Z.
 - NON-WOVEN FILTER FABRIC.
 - UNDERDRAIN SYTEM, SEE DETAIL F8/A-501 & C302.
 - NOT USED.
 - STONE LEDGE.
 - 3/4" 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.
 - 3/4" X 3" STAINLESS STEEL ANGLE LINTEL W/ 1/2" X 4" @ 12" O.C. EXPANSION ANCHORS.

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National Cemetery
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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

