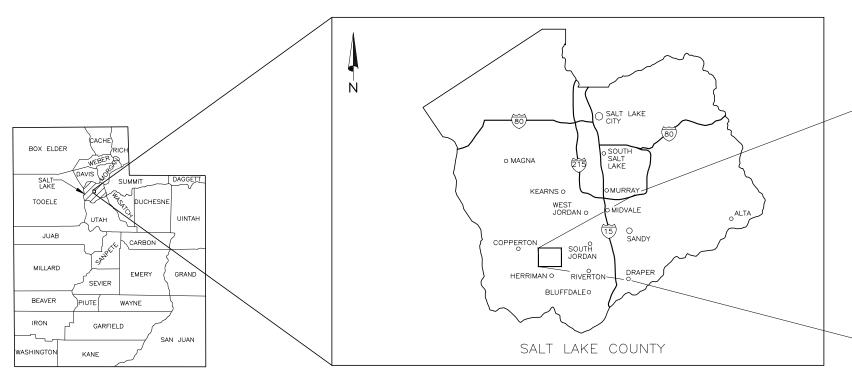




SOUTH JORDAN CITY

ZONES 7 & 8 - 8.4MG TANK JULY 2025





STATE OF UTAH

VICINITY MAP

HANSEN, ALLEN & LUCE DESIGN TEAM

PROJECT LOCATION

MARVIN E. ALLEN, P.E. - PRINCIPAL IN CHARGE TYLER G. ALLEN, P.E. - PROJECT MANAGER GARRICK STEPHENSON, P.E. - PROJECT ENGINEER ROBERT C. CONDER, S.E. - STRUCTURAL ENGINEER (CONDER ENGINEERING)

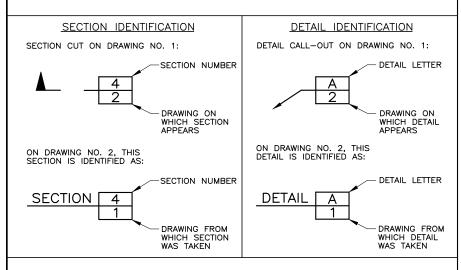
KEITH B. HEGERHORST, P.E. - ELECTRICAL ENGINEER (HPE INC. ELECTRICAL)

> JAY R. MCQUIVEY, P.E. - GEOTECHHNICAL (APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS)

ERIC LYMAN - LANDSCAPE ARCHITECT (EA LYMAN LANDSCAPE ARCHITECT)

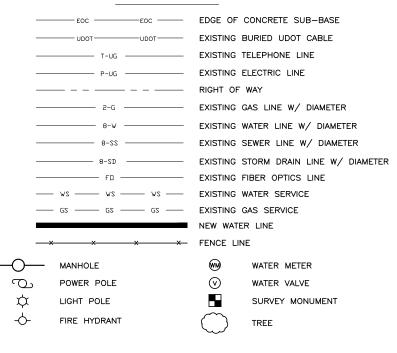


SECTION & DETAIL IDENTIFICATION



- 1. IF SECTION CUT AND SECTION OR DETAIL CALL—OUT AND DETAIL ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.
- 2. DETAIL LETTERS "I" AND "O" NOT USED.

LEGEND



INDEX OF DRAWINGS

GENERA	\L		STRUCTURAL	
	G-1	COVER SHEET	S-1	GENERAL STRUCTURAL NOTES
	G-2	LEGEND & INDEX OF DRAWINGS	S-1A	TANK SECTION & STRUCTURAL NOTES I
	G-3	GENERAL NOTES & SURVEY CONTROL	S-2	STRUCTURAL NOTES & SPECIAL INSPECTIONS
	G-4	ABBREVIATIONS	S-3	TANK PLAN – FLOOR
			S-4	TANK PLAN - ROOF
			S-5	TANK OUTSIDE WALL & DETAILS I
CIVIL			S-6	TANK INSIDE WALL & DETAILS II
<u> </u>	C-1	SITE PLAN	S-7	TANK COMMON WALL & COLUMN DETAILS
	C-1A	SITE GRADING & DRAINAGE PLAN	S-8	TANK COLUMN ELEVATIONS
	C-1B	GRADING & DRAINAGE POINT TABLE	S-9	TANK TYPICAL DETAILS
	C-1C	SITE UTILITIES PLAN	S-10	TANK ROOF REINFORCEMENT
	C-2	TANK SECTIONS	S-11	TANK ROOF TENDON DETAILS
	C-3	TANK PLAN	S-12	TANK ROOF TENDON PROFILES
	C-4	TANK PIPING PLAN	S-13	TANK FLOOR TENDON DETAILS
	C-5	TANK OVERFLOW PIPING & DETAILS I	S-14	TANK EQUIPMENT HATCH DETAILS
	C-6	TANK OVERFLOW PIPING & DETAILS II	S-15	TANK VENT DETAILS
	C-7	TANK INLET & OUTLET PIPING I	S-16	VALVE VAULT & DECK PLAN
	C-8	TANK INLET & OUTLET PIPING II	S-17	VALVE VAULT SECTIONS
	C-9	TANK DRAIN OUTLET SECTION & DETAILS	S-18	STAIR & GRATE PLAN & DETAILS
	C-10	VALVE VAULT PLAN & PIPE DETAILS	S-19	VALVE VAULT STAIRS & DETAILS
	C-11	VALVE VAULT SECTIONS I	S-20	TANK EMERGENCY OVERFLOW DRAIN BOX
	C-12	VALVE VAULT SECTIONS II	S-21	TANK CONCRETE STAIRS PLAN & SECTION
	C-13	VALVE VAULT FITTING SCHEDULE & DETAIL	S-22	TANK CONCRETE STAIRS DETAILS
	C - 14	MISCELLANEOUS DETAILS I	S-23	MISCELLANEOUS DETAIL I
	C-15	MISCELLANEOUS DETAILS II	S-24	MISCELLANEOUS DETAIL II
	C-16	ACCESS ROAD DETAILS I		
	C-16A	ACCESS ROAD DETAILS II	ELECTRICAL	
	C-17	CHAIN LINK FENCING & DETAILS	E-1.1	LEGEND & GENERAL NOTES
	C-18	STORM DRAIN DETAILS	E-1.1 E-1.2	TAG LIST
			E-1.2	IAG LIST

PLAN & PROFILE

PP-1	TANK DRAIN (CELL 2)
PP-1A	TANK DRAIN
PP-1B	TANK DRAIN (CELL 1)
PP-2	30" TANK OUTLET (CELLS 1 & 2)
PP-3	TANK INLET (CELL 1)
PP-4	TANK INLET (CELL 2)
PP-5	TANK OVERFLOW
PP-6	JVWCD CONNECTION LINE
PP-7	TANK TRANSMISSION LINE

LANDSCAPE

LANDSCAPE PLAN L1.1

E-2.1 ONE-LINE DIAGRAMS

SCHEDULES

SITE PLAN

E-6.1 DETAILS SHEET 1

E-6.2 DETAILS SHEET 2

E-6.3 DETAILS SHEET 3

E - 4.1

E-2.2 CP-2 SMALL MOTOR CONTROL PANEL

VAULT ELECTRICAL PLAN

VAULT LIGHTING PLAN

E-5.1 ENCLOSURE ARRANGEMENTS



DESIGNED	GDS		3					
DRAFTED	BKC		2					İ
CHECKED	MEA		1	JULY 2025	ISSUED FOR BID	GDS	TGA	İ
DATE	JULY	2025	NO.	DATE	REVISIONS	BY	APVD.	



- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF CONTRACTOR. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND. CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES, WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- OWNING UTILLTY COMPANY AT THE EXPENSE OF CONTRACTOR.
-) ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF CITY ENGINEER.
- 5) PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC WAY. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- 6) CURB, GUTTER, AND SIDEWALK, FOUND TO BE UNACCEPTABLE PER CITY STANDARDS AND APWA SHALL BE REMOVED AND REPLACED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
- 8) ANY SURVEY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER SALT LAKE COUNTY SURVEYORS REQUIREMENTS.
- 9) ALL CONSTRUCTION MATERIALS PER APWA MUST BE SUBMITTED AND APPROVED BY CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
- 10) REQUEST FOR INSPECTION BY THE CITY OF SOUTH JORDAN ENGINEERING DEPT. SHALL BE MADE BY CONTRACTOR AT LEAST 48 HOURS BEFORE THE INSPECTION SERVICES WILL BE REQUIRED.
- 11) WORK IN PUBLIC WAY, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- 12) CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION
- 13) POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CITY OF SOUTH JORDAN. POWER LINES AND ALL OTHER AERIAL UTILITIES ARE TO BE BURIED AND POLES REMOVED AS DETERMINED BY CITY ENGINEER.
- 14) CONTRACTOR TO FOLLOW SALT LAKE COUNTY NOISE ORDINANCE STANDARDS
- 15) CONTRACTORS ARE RESPONSIBLE FOR ALL OSHA REQUIREMENTS ON THE PROJECT SITE.

CITY OF SOUTH JORDAN GENERAL NOTES

- 16) A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AS PER STATE LAW AS WELL AS PROVIDING A STORM WATER POLLUTION PREVENTION PLAN TO THE COUNTY.
- 17) ALL CITY MAINTAINED UTILITIES INCLUDING; WATERLINE, FIRE HYDRANTS, STREETLIGHT WIRING, AND STORM DRAIN MUST BE IN PUBLIC RIGHT OF WAY OR IN RECORDED EASEMENTS.
- 18) CONTRACTOR SHALL WORK SOUTH JORDAN CITY REGULAR WORKING HOURS OF MONDAY THROUGH FRIDAY. IF CONTRACTOR PERMITS OVERTIME WORK OR WORK ON A SATURDAY, SUNDAY OR ANY LEGAL HOLIDAY, CONTRACTOR SHALL RECEIVE PRIOR APPROVAL BY CITY ENGINEER. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY OVERTIME INSPECTION FEE'S TO THE CITY OF SOUTH JORDAN ON THE THURSDAY PRIOR TO THE SATURDAY, SUNDAY OR LEGAL HOLIDAY REQUESTED.
- 19) FILTER FABRIC WRAPPED AROUND AN INLET GRATE IS NOT AN ACCEPTABLE INLET SEDIMENT BARRIER. SEE CHAPTER 9 OF SOUTH JORDAN CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR DETAILS OF APPROVED STORM WATER PAGE
- 20) ASPHALT PAVING BETWEEN OCTOBER 15 AND MARCH 15 IS NOT ALLOWED WITHOUT A WRITTEN EXCEPTION FROM THE ENGINEERING DEPARTMENT.

CITY OF SOUTH JORDAN TRAFFIC NOTES

- WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE THE SAFE ROUTE SHALL BE MAINTAINED IN A MANNER ACCEPTABLE TO SOUTH JORDAN CITY AND THE JORDAN SCHOOL DISTRICT.
- 2) IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF CITY ENGINEER, PUBLIC WORKS DIRECTOR OR DESIGNEE.
- 3) ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF—SITE IMPROVEMENTS CALLED FOR PER APPROVED CONSTRUCTION DRAWINGS UNLESS APPROVED BY CITY ENGINEER.
- 4) CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTAH TRANSIT AUTHORITY (UTA) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- 5) BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING PUBLIC STREETS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PER THE CURRENT EDITION ADOPTED BY UDOT AND BE APPROVED BY THE CITY OF SOUTH JORDAN BEFORE CONSTRUCTION BEGINS.
- 6) ALL SIGNS LARGER THAN 36"X 36"OR 1296 SQUARE INCHES PER SIGN POLE SHALL BE MOUNTED ON A SLIP BASE SYSTEM PER UDOT STANDARD DRAWING SN 10B (DETAIL DRAWING ATTACHED TO STANDARD DRAWINGS) WITH A "Z" BAR BACKING. SIGNS OF THIS SIZE ARE NOT ALLOWED TO BE MOUNTED ON A YIELDING POLE.
- 7) SIGN COMPONENTS SUCH AS SHEETING, EC FILM, INKS, LETTERS AND BORDERS ARE ALL REQUIRED TO BE FROM THE SAME MANUFACTURER. ONLY EC FILM MAY BE USED TO ACHIEVE COLOR. VINYL EC FILM IS NOT ACCEPTED.

CITY OF SOUTH JORDAN GRADING NOTES

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER AND CITY ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- 2) IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF—SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- 3) CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.

CITY OF SOUTH JORDAN GRADING NOTES

- 4) CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF CONTRACTOR.
- 5) CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

 HORIZONTAL VERTICAL COMPACTION
- HORIZONTAL VERTICAL COMPACTION

 PAVEMENT AREA SUBGRADE 0.1'+ +0.0' TO -0.1' SEE TECHNICAL SPECIFICATIONS

 ENGINEERED FILL 0.5'+ +0.1' TO -0.1' SEE TECHNICAL SPECIFICATIONS
- COMPACTION TESTING WILL BE PERFORMED BY CONTRACTOR OR HIS REPRESENTATIVE.
- 6) ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- 7) THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER FROM THE PUBLIC WORKS DEPARTMENT.
- 8) CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT—OF WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILL OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- 9) IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, CONTRACTOR AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES FTC.
- 10) ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY CITY ENGINEER AND AS SHOWN ON THESE PLANS.

CITY OF SOUTH JORDAN WATER NOTES

- THE FOLLOWING SOUTH JORDAN CITY WATER NOTES ARE INTENDED FOR GENERAL WATER STANDARDS ONLY AND ARE NOT ALL INCLUSIVE. THE CITY HAS INCLUDED THE CULINARY WATER DESIGN AND CONSTRUCTION STANDARDS WITHIN THE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- 2) NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE ENGINEERING DEPARTMENT. FOLLOWING WATER PLAN APPROVAL, FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE ENGINEERING INSPECTOR AND THE PUBLIC WORKS DEPARTMENT (253-5230) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO AN INSPECTION.
- 3) ALL WORK WITHIN SOUTH JORDAN CITY SHALL CONFORM TO SOUTH JORDAN CITY STANDARDS AND SPECIFICATIONS, AWWA AND APWA.
- 4) LANDSCAPING AND IRRIGATION ADJACENT TO VAULTS SHALL DRAIN AWAY FROM VAULTS.
- 5) SOUTH JORDAN PUBLIC WORKS DEPARTMENT MUST APPROVE WATER SHUT DOWN WHICH MAY REQUIRE EVENING AND WEEKEND SHUT DOWN AS DEEMED NECESSARY, REQUIRING CONTRACTOR TO BE BILLED FOR OVERTIME. 48 HOUR NOTICE IS REQUIRED.
- 6) ALL LINES TO BE PRESSURE TESTED ACCORDING TO SOUTH JORDAN CITY AND AWWA STANDARDS AND CHLORINATED PER AWWA C651 PRIOR TO USE AND FINAL ACCEPTANCE. (SEE SECTION 33 13 00)
- ALL FITTINGS TO BE COATED WITH POLY FM GREASE AND WRAPPED WITH 8-MIL THICK POLYETHYLENE.
- 8) NO OTHER UTILITY LINES MAY BE PLACED IN THE SAME TRENCH WITH WATER LINE UNLESS APPROVED BY CITY ENGINEER.
- 9) ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF CITY ENGINEER OR DESIGNEE.
- 10) ALL WATER VAULTS WILL BE CONSTRUCTED PER CITY OF SOUTH JORDAN STANDARD DRAWINGS AND SPECIFICATIONS. NO VAULTS ARE ALLOWED IN TRAFFIC AREAS WITHOUT PRIOR APPROVAL OF CITY ENGINEER.
- 11) ONCE THE WATERLINE HAS BEEN TESTED, APPROVED AND CITY WATER IS FLOWING THROUGH THE PIPE, ONLY CITY PERSONNEL ARE AUTHORIZED TO SHUT DOWN AND CHARGE THE WATERLINE.
- 12) MEGALUG FOLLOWING RING OR AN APPROVED EQUIVALENT SHALL BE USED ON ALL FITTINGS.
- 13) LANDSCAPING AND IRRIGATION ADJACENT TO VAULTS SHALL DRAIN AWAY FROM VAULTS
- 14) ALL WATER TREATMENT CHEMICALS SHALL MEET NSF 60 REQUIREMENTS.
- 15) ALL MATERIALS IN CONTRACT WITH POTABLE WATER SHALL MEET NSF 61 REQUIREMENTS.
- 16) CONTRACTOR SHALL CLEAN AND DISINFECT THE TANK PER AWWA C652 PRIOR TO BEING PLACED INTO SERVICE. HIGH CHLORINE CONCENTRATIONS SHALL BE DECHLORINATED PER UTAH ADMIN CODE R317. SUBMIT A PLAN PER SECTION 33 16 16.

ENGINEER GENERAL NOTES

- CONTRACTOR SHALL MEET ALL UTAH STATE DEPARTMENT OF ENVIRONMENTAL QUALITY AND U.S. EPA REQUIREMENTS WITH RESPECT TO THEIR RULES AND REGULATIONS FOR DRINKING WATER SYSTEMS.
- STATIONING, CURVE DATA, AND STRAIGHT SECTIONS AS LISTED ARE GROUND DISTANCES. HORIZONTAL AND VERTICAL CONTROL IS BASED ON SALT LAKE COUNTY MONIMENTS
- 3) CONSTRUCTION OPERATIONS SHALL BE CONDUCTED, AND SIGNS, BARRICADES, AND FLASHERS SHALL BE PLACED; SO AS TO COMPLY WITH OSHA, UTAH STATE INDUSTRIAL COMMISSION, LOCAL SAFETY STANDARDS, AND MANUAL ON UNIFORM TRAFFIC CONTROL.
- 4) CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, INCLUDING WATER LINES, IRRIGATION DRAIN LINES, TELEPHONE CABLES, GAS LINES, AND ANY OTHER OBSTRUCTION DURING THE COURSE OF CONSTRUCTION AND INSTALLATION OF THE PIPELINES AND RESERVOIR.
- 5) CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN RIGHTS OF INGRESS AND EGRESS SHOULD HE VENTURE ONTO PRIVATE PROPERTY WHICH IS NOT INCLUDED IN CITY ACQUIRED RIGHTS—OF—WAY AND EASEMENTS.
- 6) UNLESS DETAILED, SPECIFIED OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
- 7) CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING IMPROVEMENTS DURING CONSTRUCTION AND SHALL REPLACE OR RESTORE ANY IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION ACTIVITY AS DIRECTED BY ENGINEER.
- 8) THIS PROJECT IS LOCATED IN SALT LAKE COUNTY LIMITS. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND APPROVALS FROM SALT LAKE COUNTY AND SHALL COMPLY WITH SALT LAKE COUNTY REGULATIONS FOR TRAFFIC CONTROL, SAFETY, EXCAVATION IN ITS RIGHTS OF WAY, ETC.
- 9) CONTRACTOR SHALL OBTAIN NOTICE OF INTENT, IMPLEMENT STORM WATER POLLUTION PREVENTION PLAN MEETING SALT LAKE COUNTY REQUIREMENTS, AND COMPLY WITH ALL UPDES REQUIRMENTS.

	SURVEY CONTROL										
SALT LAKE COUNTY POINT NAME	ADDRESS	NORTHING	EASTING	ELEVATION	DESCRIPTION						
3S2W2101	11800 S 7200 W	7,364,818.444	1,484,037.417	5125.74	SECTION CORNER						
3S2W2102	11800 S 7600 W	7,364,840.628	1,481,392.475	5170.32	1/4 SECTION CORNER						

COORDINATE SYSTEM: UNITED STATES / STATE PLANE 1983 /

UTAH CENTRAL 4302 (GRID)

DATUMS: NORTH AMERICAN DATUM 1983 (NAD 1983) / NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)

GEOID MODEL: GEOID 12B (CONUS)

AVERAGE PROJECT HEIGHT: 5170.0 FEET

UNITS: US SURVEY FEET

CONTROL MONUMENTS: PUBLIC LAND SURVEY SYSTEM (PLSS)

SECTION 28, TOWNSHIP 3 SOUTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN

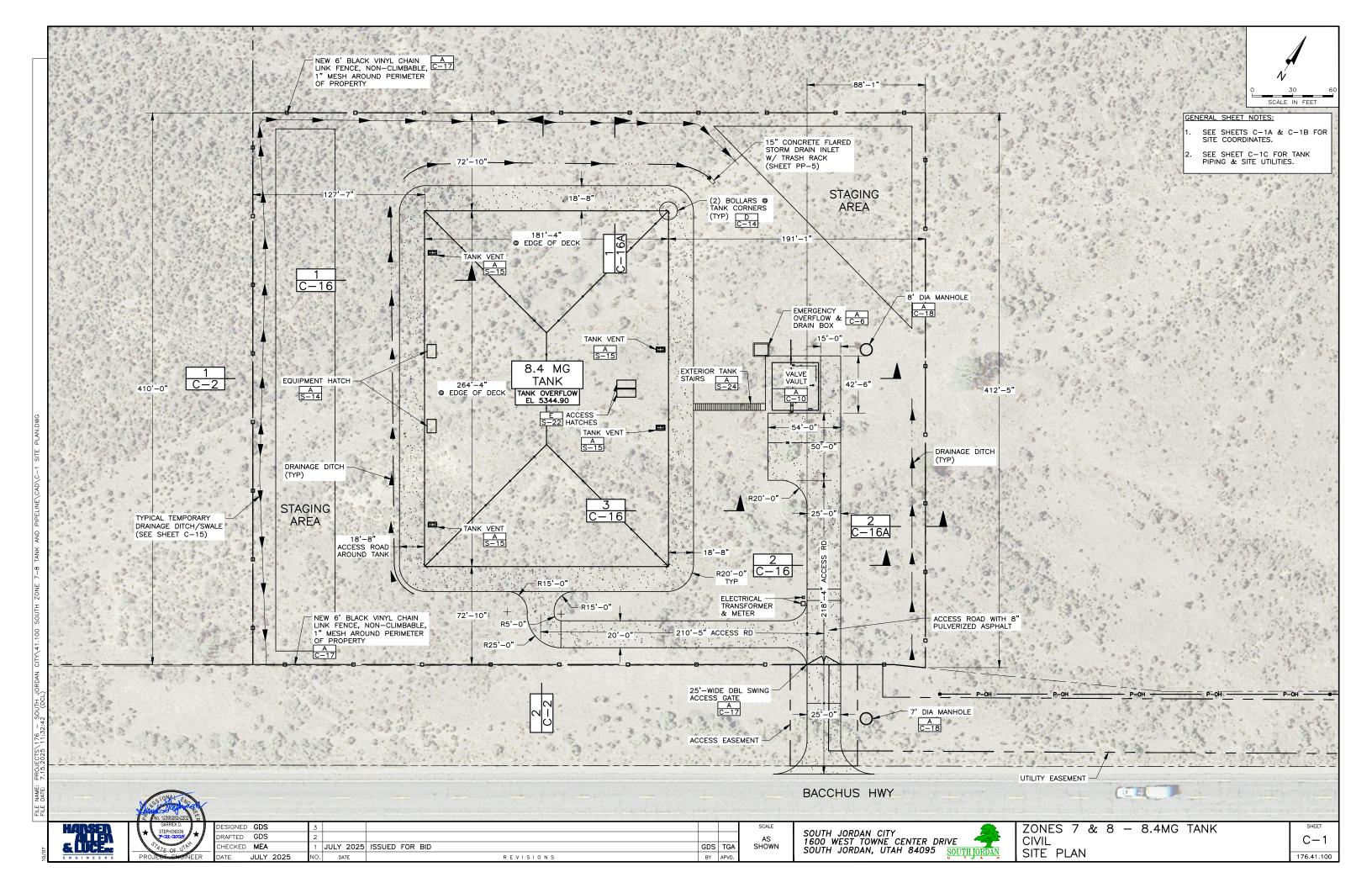


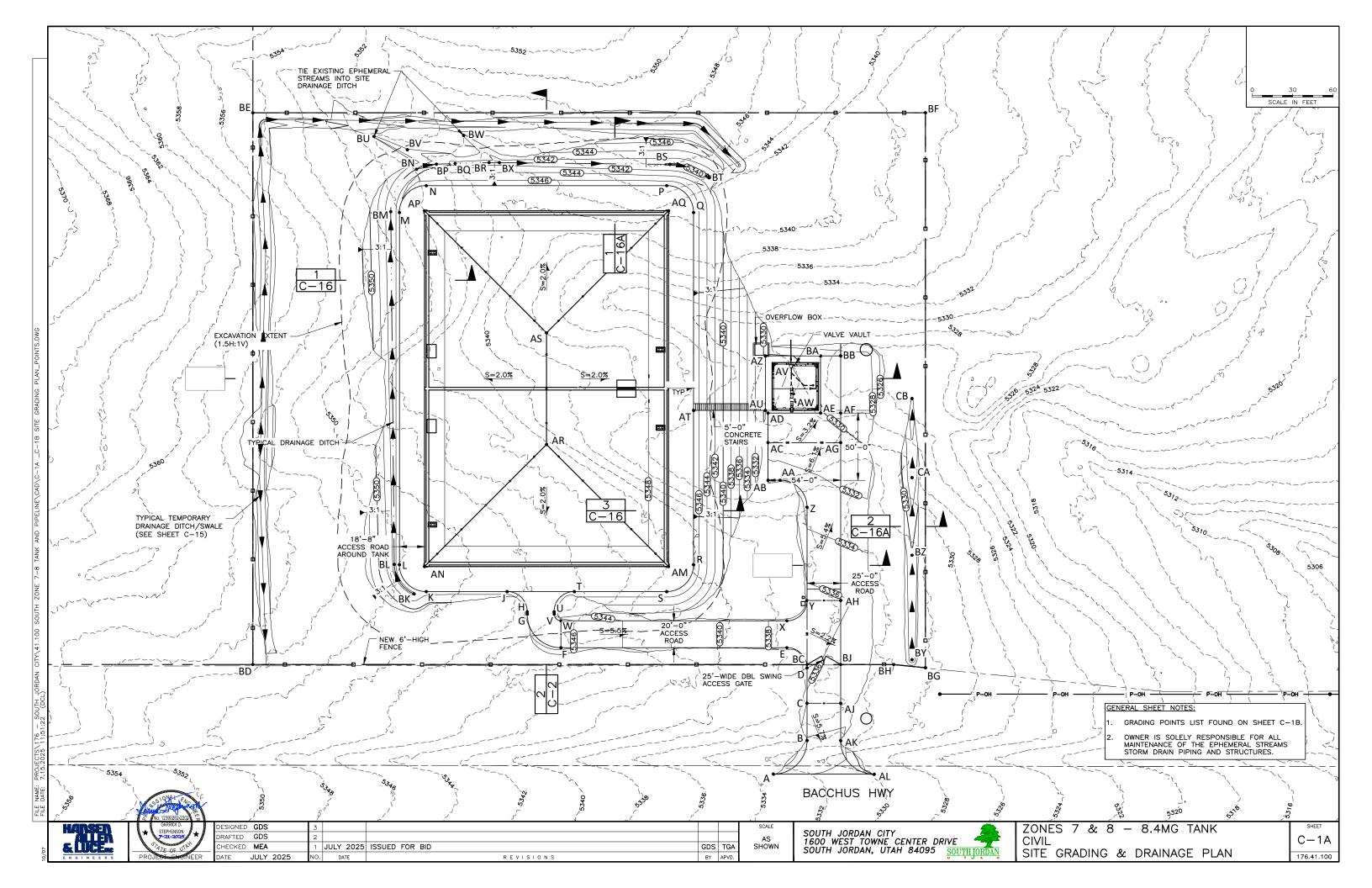


NOT TO SCALE SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH TORDAN

ZONES 7 & 8 — 8.4MG TANK GENERAL GENERAL NOTES & SURVEY CONTROL G-3

ACI CURRENT ACI AMERICAN CON ACOUS ACOUSTIC / AC ASBESTOS CEM CONCRETE PAY ADD ADDITIONAL ADH ADHESIVE ADJ ADDITIONAL ADH ADHESIVE ADJ ADJUSTABLE / AFF ABOVE FINISHEI AISC CONSTRUCTION ALT ALTERNATE ALUM ALUMINUM / A AMB AMBIENT ALUM ALUMINUM / A AMB AMBIENT AMERICAN PLYWER APA (ENGINEERED WAPA AMERICAN PLYWER APA (ENGINEERED WAPROX APPROXIMATE APPURTS APPURTENANCE APWA AMERICAN PUBLICAN PUBLICAN ARV AIR RELEASE VARCH ARCHITECTURE ASME AMERICAN SOLO ASSOCIATION AUXILIARY AVAR AIR VACUUM AT AVE AVENUE AWG AMERICAN WOO AWS AMERICAN WOO ART ARVEULD	ENT PIPE / ASPHALTIC EMENT ADJACENT CONT CONT CONT CONT CONT CONT CONT CO	COLUMN COMMUNICATION CABLE CONCRETE / CONCENTRIC CONCRETE / CONCENTRIC CONCRETE / CONCENTRIC CONCRETE / CONCENTRIC CONCRETE / CONCENTRIC CONCRETE / CONCENTRIC CONCRETE / CONCENTRIC CONTRACTOR CONTRUCT / CONSTRUCTION CONTINUED / CONTINUOUS R CONTRACTOR COORDINATE CORNER COUPLING CHLORINATE POLYVINYL PIPE CORREGATED STEEL PIPE CERAMIC TILE CENTER CORROSION TEST STATION COUNTERSINK COPPER / CUBIC CHECK VALVE CUBIC YARD CYLINDER PENNY DOUBLE ACTING DOOR DIRECT BURY DOUBLE ACTING DOOR DIRECT BURY DOUBLE DEGREE DETAIL DRINKING FOUNTAIN / DOUGLAS FIR DOOR GRILL DOUBLE HING DUCTILE IRON DIAMETER DIAGONAL H DIAPHRAGM DIMENSION DUCTILE IRON PIPE DUCTILE TRON PIPE DUCTILE TRON PIPE DUCTILE TRON PIPE DUCTILE TRON PI	FC FLEXIBLE COUPLING FCA FLANGE COUPLING ADAPTER FCO FLOOR CLEANOUT FD FLOOR DRAIN FPR FEEDER FE FIRE EXTINGUISHER FF FLAT FACE / FAR FACE / FINISH FLOOR FG FINISH GRADE / FIBER GLASS FH FIRE HYDRANT / FLAT HEAD FIG FIGURE FIN FINISHED FIX FACE / FAR FACE / FINISH FIG FIGURE FIN FINISHED FIX FLAT FACE / FAR FACE / FINISH FIG FIGURE FIN FINISHED FIX FLAT FACE / FAR FACE / FINISH FIG FIGURE FIN FINISHED FIX FLAT FACE / FAR FACE / FINISH FIC FLANGED FIX FIXTURE FLAT FACE / FLOORING FILE FLANGED FLAT FLOOR FLASHING FM FACTORY MUTUAL (LAB APPROVED) / FORCE MAIN FINH FLEXIBLE METAL HOSE FIN FILED NAIL FND FOUNDATION FOC CABLE FOM FACE OF MASONRY FOS FACE OF CONCRETE / FIBER OPTIC CABLE FOM FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOS FACE OF STUDS FOW FACE OF MASONRY FOR FACE OF STUDS FOR FACE	REC INSTRUMENTATION & CONTROL REC INSIDE AND OUTSIDE IBC INTERNATIONAL BUILDING CODE ID INSIDE DAMBETER IE INVERT ELEVATION I.F. INSIDE FACE JITS INSULATING JOINT TEST STATION IN IN INCL INCL INCLUDE / INCLUDING INF INFLUENT INSL INSULATION / INSULATING / INSULATED INSP INSPECTION INST INSTRUMENT INT INTERIOR INV INVERT IP IRON PIPE IPS IRON PIPE IRON PIPE IPS IRON PIPE IRON PIPE IPS IRON PIPE IPS IRON PIPE IPS IRON PIPE IPS IRON PIPE INSPECTION NOOTH NOOCH NOOTH SODIUM HYPOCHLORITE SODIUM HYPOCHLORITE SODIUM HYPOCHLORITE SODIUM HYPOCHLORITE SODIUM HYPOCHLORITE SODIUM HYPOCHLORITE NOOTH SODIUM HYPOCHLORITE NEC NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NER FACE NFPA NATIONAL FIRE PROTECTION ASSOCIATION NG NATURAL GRADE / NATURAL GAS NIC NOT IN CONTRACT NO. NUMBER / NORMALLY OPEN NOM NOMINAL NFS NOMINAL PIPE SIZE NFT NATIONAL PIPE HIREAD NPW NON-PCIABLE WATER NRCP NON-REINFORCED CONCRETE PIPE NRS NON-REINSIN STEM NS NEAR SIDE NTS NOT TO SCALE NW NORTHWEST OBJ OBJECT ON CENTER / OVER-CROSSING OU DISIDE DIAMETER / OVERALL DIMENSION DE DIMENSION DE DIMENSION DE DIMENSION OF OVERFLOW DRAIN OG OFFICIAL OF OVERFLOW OFFICIAL OPERATING OPPO OPPO OPPO OPPO OPPO OPPO OPPO OP	RAP RCY REINFORCED CONCRETE RCP RCP RCP RCP RCP RCP RCP RCP RCP RCP	TOB TOP OF BAFFLE TOE THREAD ONE END TOE TOP OF CONCRETE TOE TOP OF CONCRETE TOE TOP OF CONCRETE TOE TOP OF CONCRETE TOE TOP OF CONCRETE TOP OF TOP OF FIPE TOPO TOP OF MASONRY TOP OF STEEL / TOP OF SLAB TOW TOP OF STEEL / TOP OF SLAB TOW TOP OF STEEL / TOP OF SLAB TOW TOP OF STEEL / TOP OF SLAB TOW TOP OF STEEL / TRANSITION / THE TEST PIT TRANSSION TRANSSISSION TRANSSISSION TRANSSISSION TRANSSISSION TRANSSISSION TRANSSISSION TRANSSISSION TOP OF STEEL / TRANSITION / THERMOSTATIC VALVE THE THREAD STATION TYP THERMOSTATIC VALVE THE THREAD STATION TOP OF STEEL / TRANSITION / TRANSSISSION TRANSSISSION TRANSSISSION TOP OF STEEL / TRANSITION / TRANSSISSION TRANSSISSION TRANSSISSION THE TRANSSISSION TOP OF STEEL / TRANSSISSION THE TRANSSISSION TOP OF STEEL / TRANSSISSION THE TRANSSISSION TOP OF STEEL / TRANSSISSION TRANSSISSION TRANSSISSION THE TRANSSISSION TOP OF STEEL / TRANSSISSION	
CLR CLEAR / LEX	F&C 1239082-2202 BESIGNED GDS DRAFTED BKC CHECKED MEA DATE JULY 20	3	HWL HIGH WATER LEVEL	MTD MOUNTED SCALE GDS TGA BY APVD. SCALE NOT TO SCALE	SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE	ZONES 7 & 8 — GENERAL ABBREVIATIONS	8.4MG TANK SHEET G-4 176.41.100





POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
Α	7,362,592.00	1,478,166.71	5333.21	ACCESS PC, R=25'
В	7,362,626.44	1,478,174.76	5333.81	ACCESS PT
С	7,362,649.90	1,478,160.18	5335.90	ACCESS GB
D	7,362,672.24	1,478,146.30	5336.16	ACCESS GB/PC, R=15'
E	7,362,677.06	1,478,125.64	5337.24	ACCESS PT
F	7,362,588.42	1,477,983.00	5346.53	ACCESS PC, R=25'
G	7,362,596.46	1,477,948.57	5347.00	ACCESS PT
н	7,362,597.88	1,477,947.68	5347.03	ACCESS PC, R=15'
J	7,362,602.70	1,477,927.03	5347.33	ACCESS, PT
к	7,362,571.01	1,477,876.02	5347.33	ACCESS PC, R=20'
L	7,362,577.44	1,477,848.48	5347.33	ACCESS PT
м	7,362,799.68	1,477,710.36	5347.33	ACCESS PC, R=20'
N	7,362,827.23	1,477,716.79	5347.33	ACCESS PT
Р	7,362,921.53	1,477,868.54	5347.33	ACCESS PC, R=20'
Q	7,362,915.10	1,477,896.09	5347.33	ACCESS PT
R	7,362,692.86	1,478,034.20	5347.33	ACCESS PC, R=20'
s	7,362,665.31	1,478,027.77	5347.33	ACCESS PT
Т	7,362,629.09	1,477,969.49	5347.33	ACCESS PC, R=15'
U	7,362,608.44	1,477,964.67	5347.03	ACCESS PT
v	7,362,607.01	1,477,965.56	5347.00	ACCESS PC, R=5'
	· · ·			
w_	7,362,605.41	1,477,972.44	5346.53	ACCESS GB/PT
×	7,362,694.05	1,478,115.08	5337.24	ACCESS PC, R=15'
Y	7,362,714.71	1,478,119.91	5336.66	ACCESS GB/PT
Z	7,362,773.68	1,478,083.26	5333.20	ACCESS PC, R=20'
AA	7,362,780.11	1,478,055.72	5332.60	ACCESS PT
AB	7,362,775.37	1,478,048.06	5332.78	ACCESS PI
AC	7,362,799.13	1,478,033.29	5331.38	ACCESS GB
AD	7,362,817.82	1,478,021.68	5330.83	ACCESS PI
AE	7,362,838.44	1,478,054.86	5330.05	ACCESS PI
AF	7,362,846.33	1,478,067.55	5329.75	ACCESS PI
AG	7,362,827.64	1,478,079.16	5330.30	ACCESS GB
AH	7,362,728.04	1,478,141.05	5336.16	ACCESS GB
AJ	7,362,663.09	1,478,181.42	5335.40	ACCESS GB
AK	7,362,639.60	1,478,196.02	5333.31	ACCESS PC, R=25'
AL	7,362,631.55	1,478,230.43	5329.83	ACCESS PT
AM	7,362,681.87	1,478,019.05	5346.71	EDGE OF TANK TOC
AN	7,362,586.16	1,477,865.04	5346.71	EDGE OF TANK TOC
AP	7,362,810.67	1,477,725.51	5346.71	EDGE OF TANK TOC
AQ	7,362,906.38	1,477,879.53	5346.71	EDGE OF TANK TOC
AR	7,362,711.02	1,477,894.19	5348.52	RIDGE TOC
AS	7,362,781.52	1,477,850.38	5348.52	RIDGE TOC
AT	7,362,790.26 7,362,818.42	1,477,973.69	5347.33	STAIRS TOP
AU	7,362,818.42	1,478,019.01	5330.77 N/A	STAIRS BOT
AV	7,362,839.75	1,478,006.58	N/A	INSIDE NW CNR VAULT
AW				INSIDE SE CNR VAULT
AY	NOT USED	NOT USED	NOT USED	NOT USED NOT USED
AZ	7,362,852.82	1,477,997.63	5330.32	GB
BA	7,362,874.47	1,478,032.47	5329.60	GB
BB	7,362,882.35	1,478,045.15	5329.30	GB
	1 .,552,552.55	1 .,	1 0029.00	<u> </u>

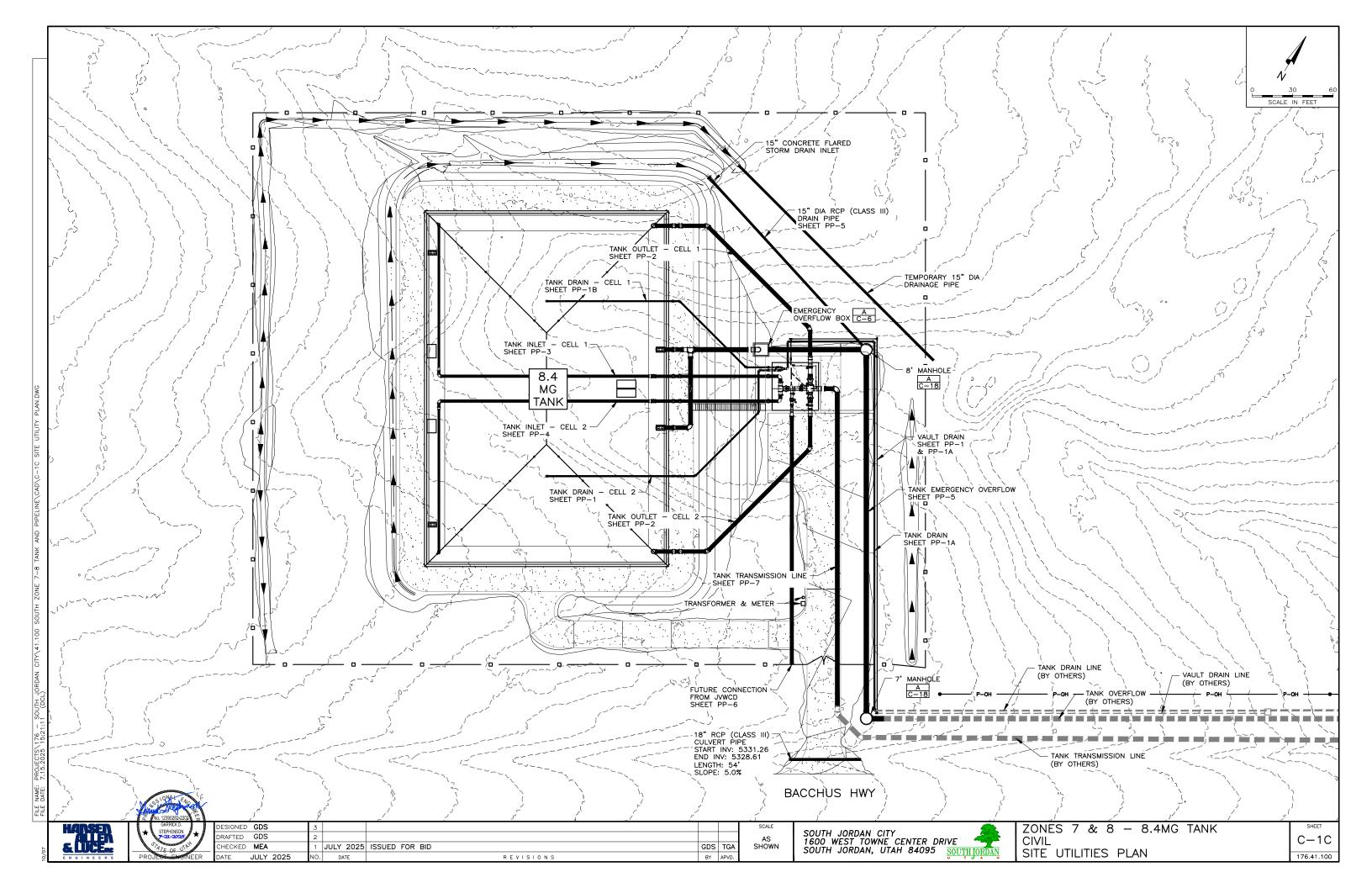
POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
ВС	7,362,674.36	1,478,144.98	5336.19	FENCE GATE
BD	7,362,456.93	1,477,795.10	5354.28	FENCE CNR
BE	7,362,805.18	1,477,578.67	5354.58	FENCE CNR
BF	7,363,069.09	1,478,003.35	5336.86	FENCE CNR
BG	7,362,718.84	1,478,221.01	5332.70	FENCE CNR
вн	7,362,708.39	1,478,199.72	5333.99	FENCE PI
BJ	7,362,687.56	1,478,166.21	5335.69	FENCE GATE
вк	7,362,564.77	1,477,869.06	5345.77	FL PC, R=24'
BL	7,362,575.61	1,477,845.11	5345.63	FL PT
вм	7,362,796.86	1,477,704.52	5344.32	FL PC, R=35'
BN	7,362,833.79	1,477,704.14	5344.12	FL GB
BP	7,362,844.79	1,477,714.71	5342.80	FL PT
BQ	7,362,852.49	1,477,726.30	5341.60	FL GB
BR	7,362,866.44	1,477,747.31	5341.34	FL PI
BS	7,362,936.29	1,477,862.32	5339.96	FL PC, R=50'
вт	7,362,943.44	1,477,891.65	5339.65	FL PT
BU	7,362,837.76	1,477,664.43	5346.00	TIE-IN DRAINAGE
BV	7,362,842.44	1,477,690.69	5345.00	TIE-IN DRAINAGE
BW	7,362,873.60	1,477,720.63	5344.00	TIE-IN DRAINAGE
вх	7,362,870.43	1,477,753.89	5341.28	TIE-IN DRAINAGE
BY	7,362,718.66	1,478,209.35	5331.09	FL
BZ	7,362,784.53	1,478,168.42	5330.39	FL/GB
CA	7,362,833.54	1,478,137.96	5326.52	FL/GB
СВ	7,362,883.43	1,478,106.95	5324.70	FL

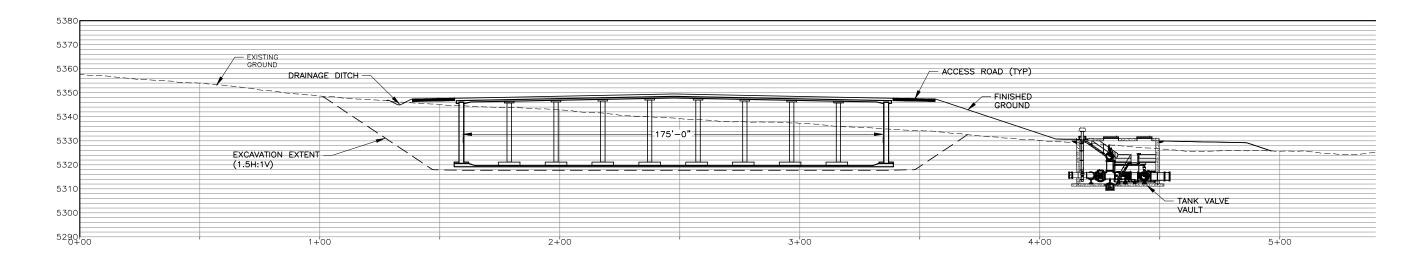


DESIGNED	GDS		3					
DRAFTED	GDS		2					
CHECKED	MEA		1	JULY 2025	ISSUED FOR BID	GDS	TGA	5
DATE	JULY	2025	NO.	DATE	REVISIONS	BY	APVD.	

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4MG TANK CIVIL GRADING & DRAINAGE POINT TABLE

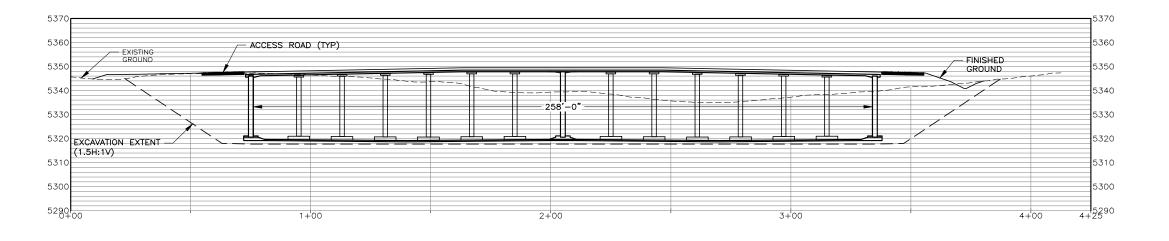




TANK SECTION W TO E 1 1 1 1 C-1A

GENERAL SHEET NOTES:

1. FOOTING AND FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED IN WRITING BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE FORMS OR REBAR.



 TANK SECTION S TO N
 2
 2

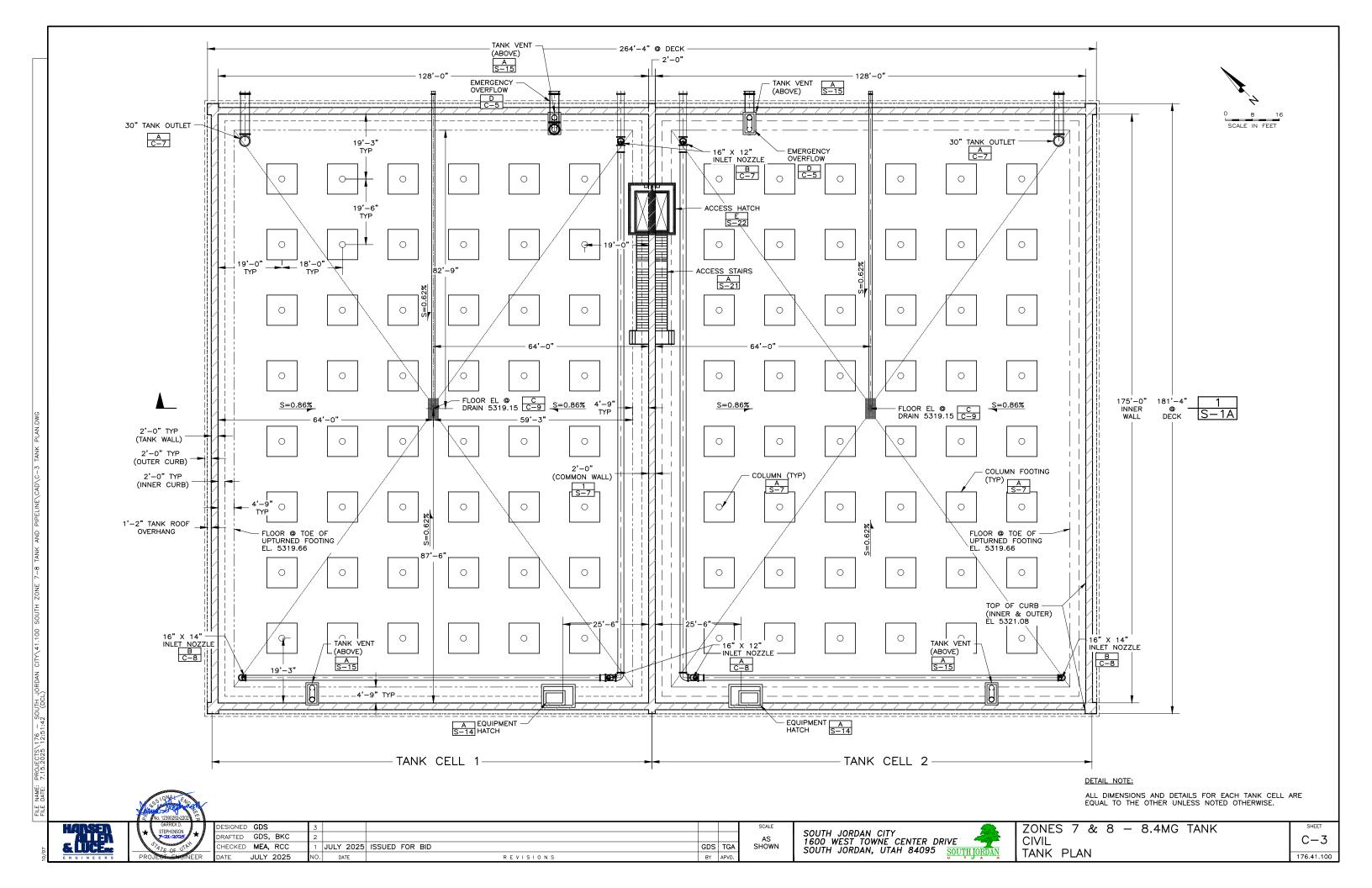
 NTS
 C-1
 C-1A

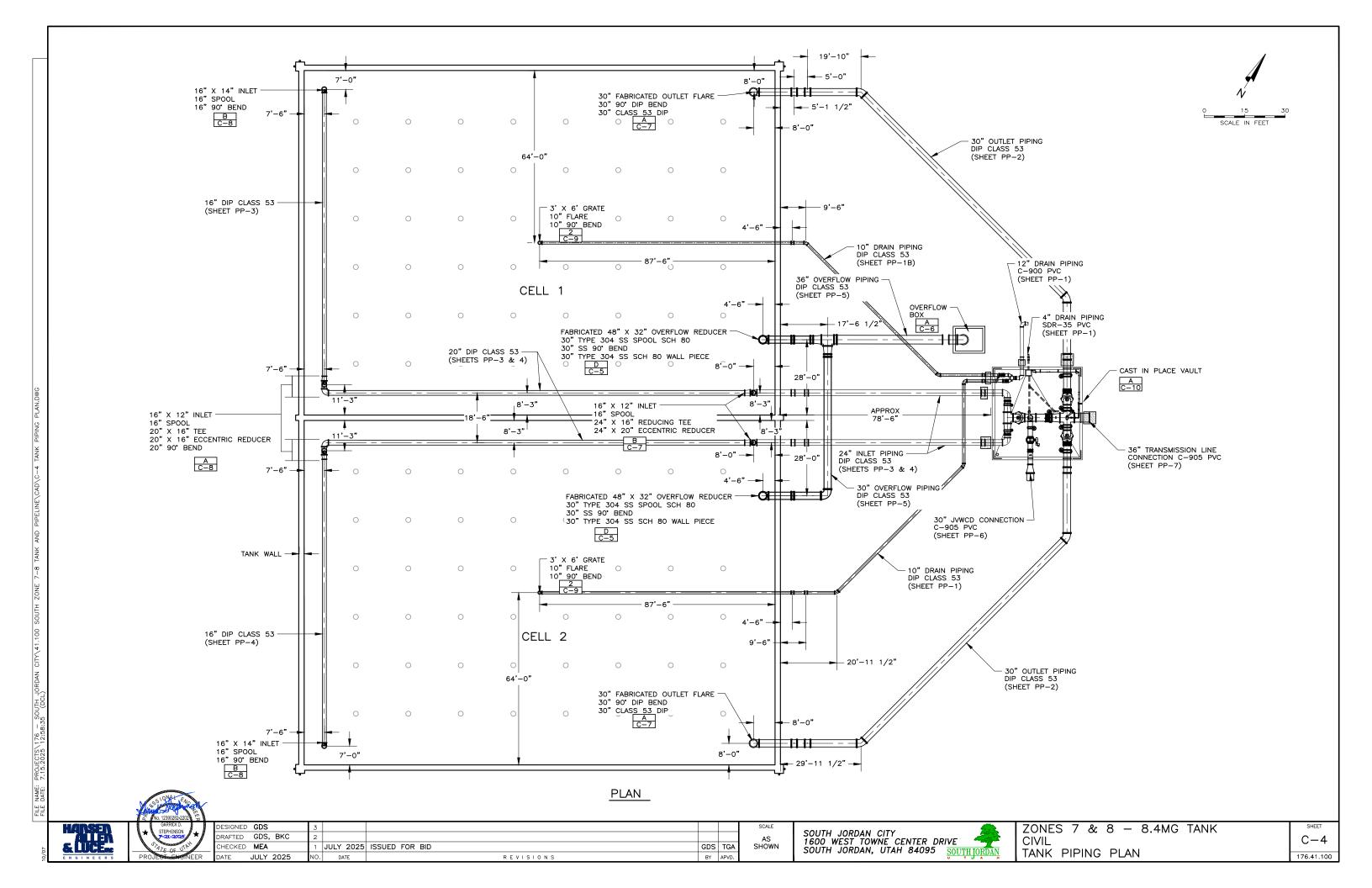


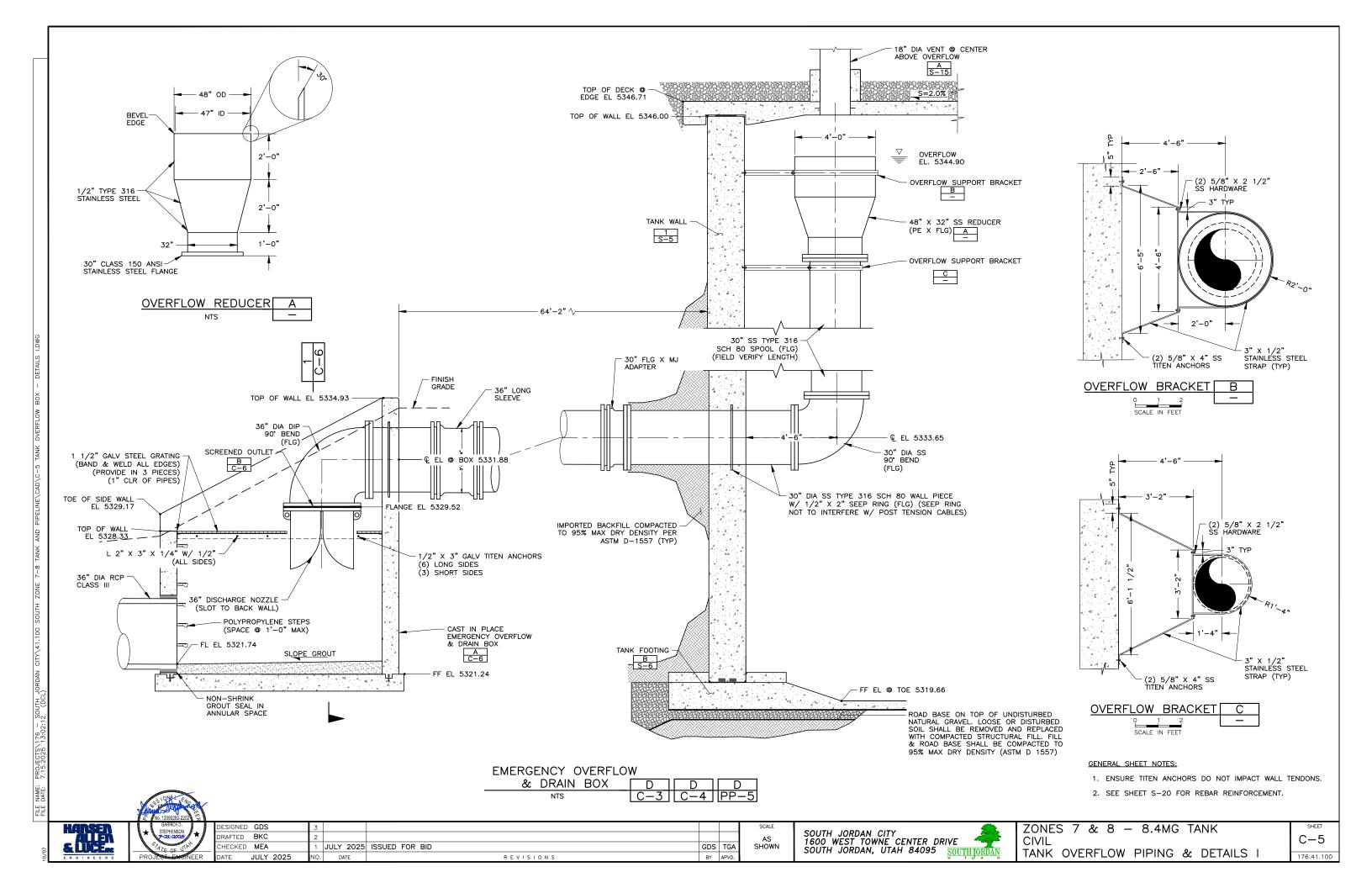
DESIGNED	GDS		3					
DRAFTED	GDS		2					İ
CHECKED	MEA		1	JULY 2025	ISSUED FOR BID	GDS	TGA	S
DATE	JULY	2025	NO.	DATE	R E V I S I O N S	BY	APVD.	

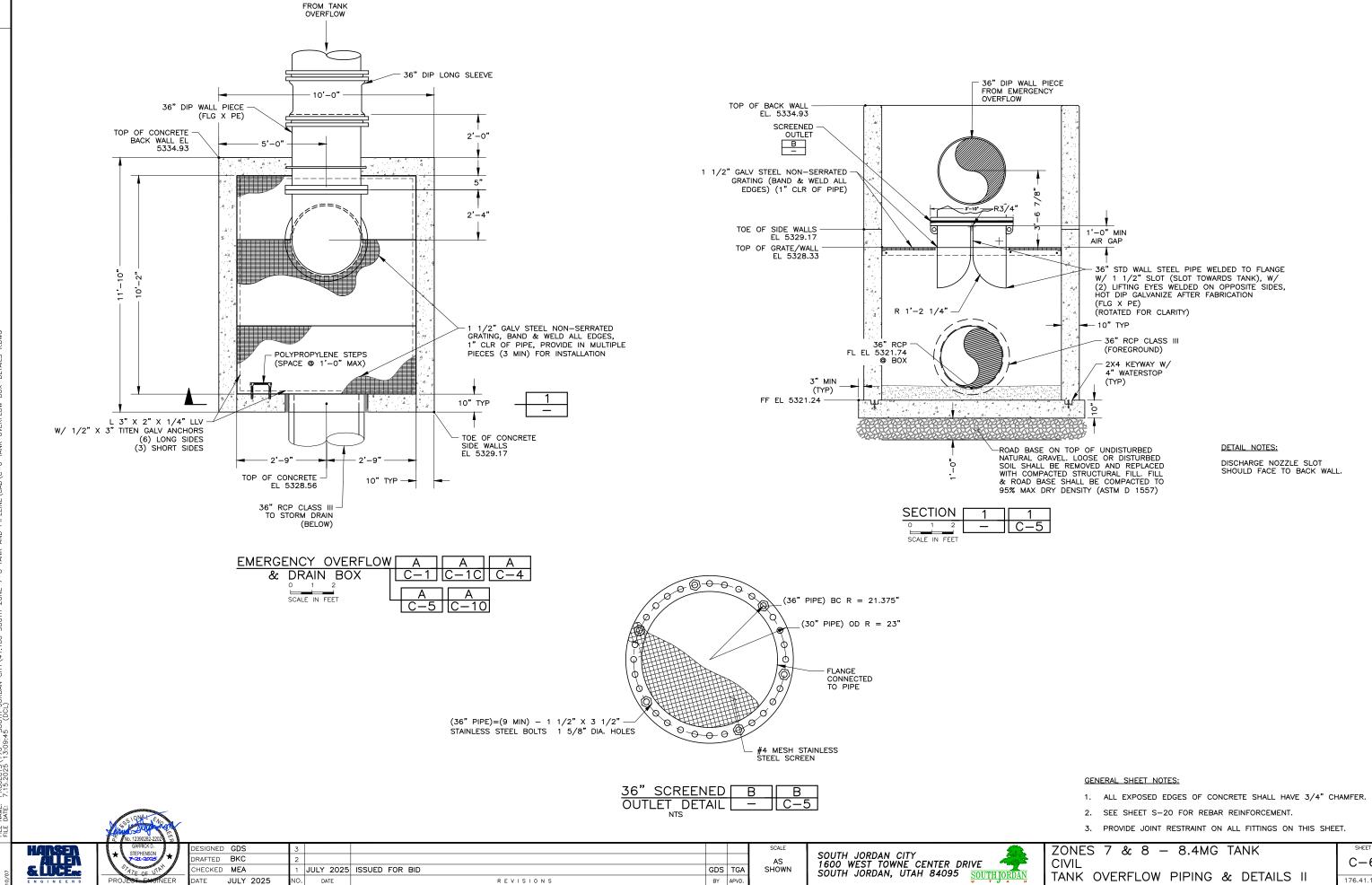


SHEET
C-2
176.41.100









GDS TGA

C-6

176.41.100

CIVIL

TANK OVERFLOW PIPING & DETAILS II

RAFTED BKC

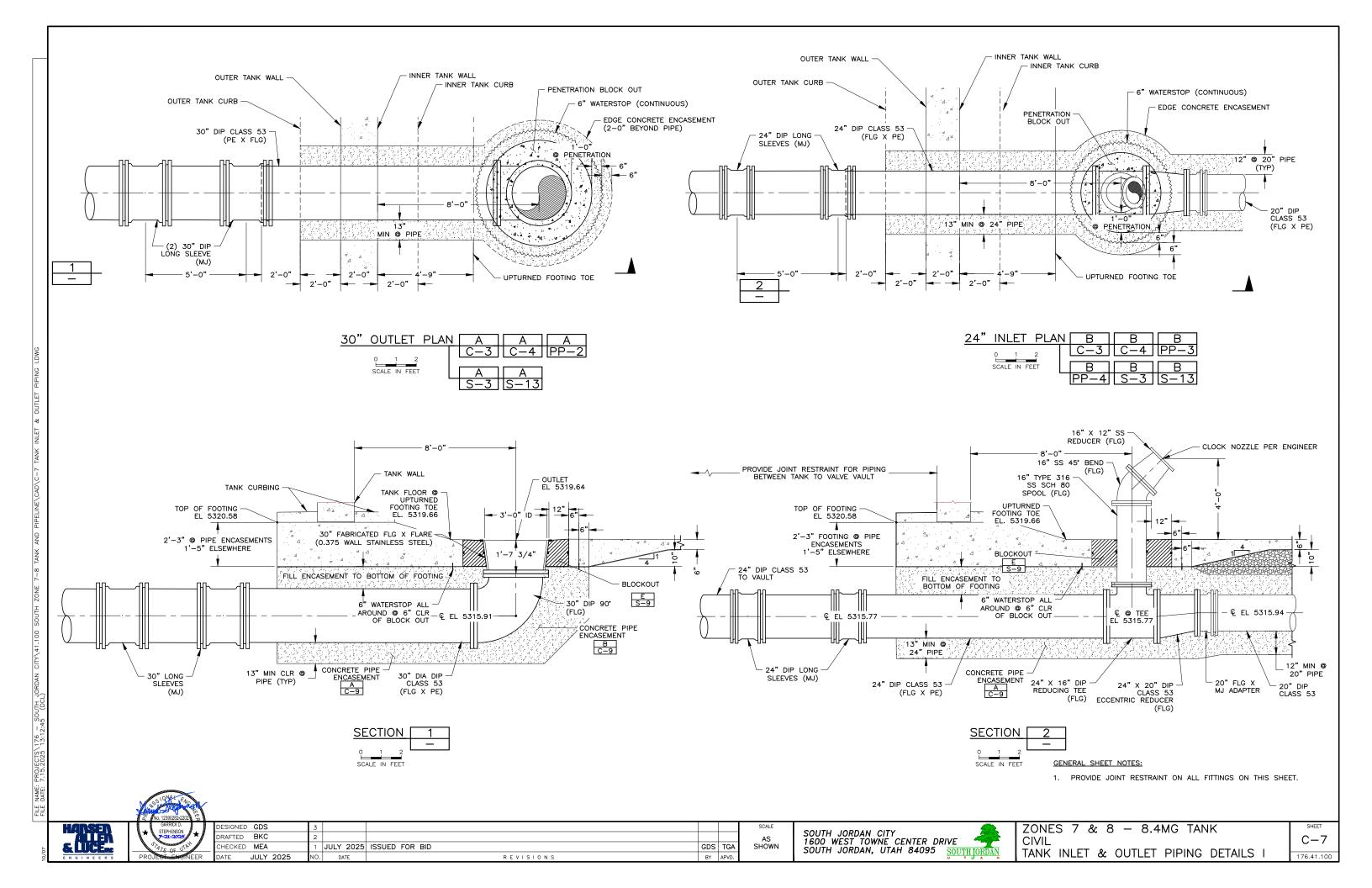
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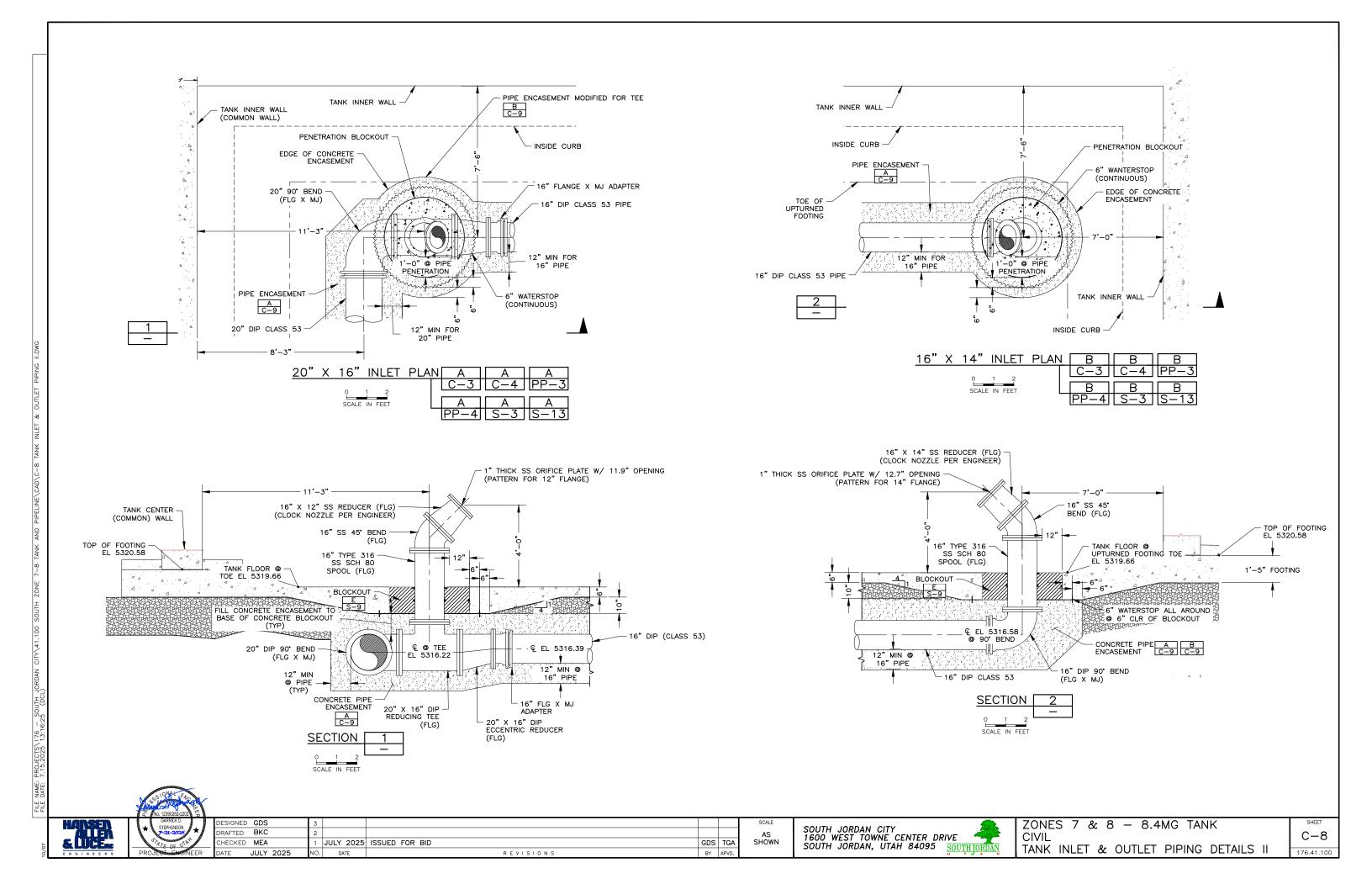
JULY 2025

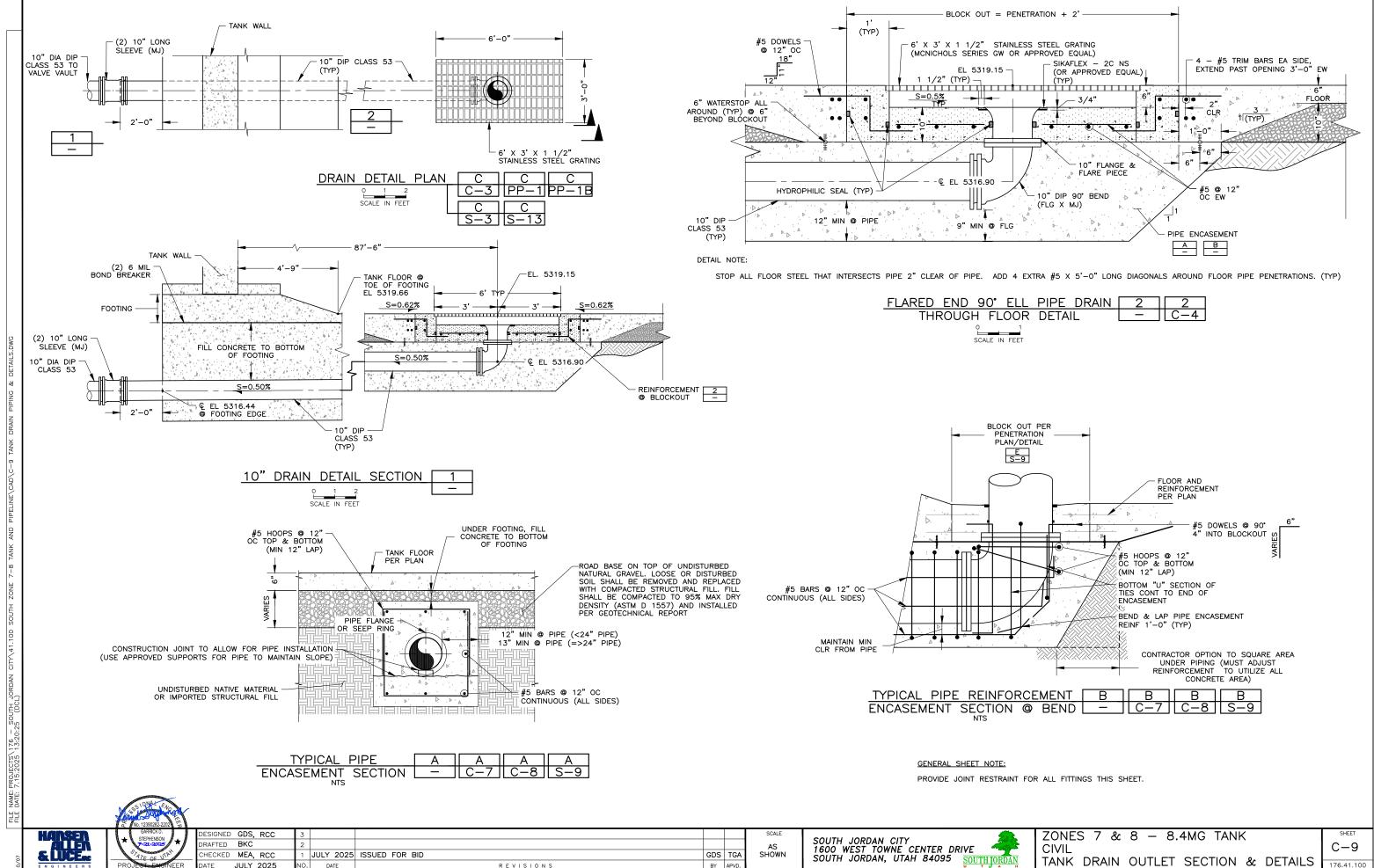
JULY 2025 ISSUED FOR BID

REVISIONS

DATE



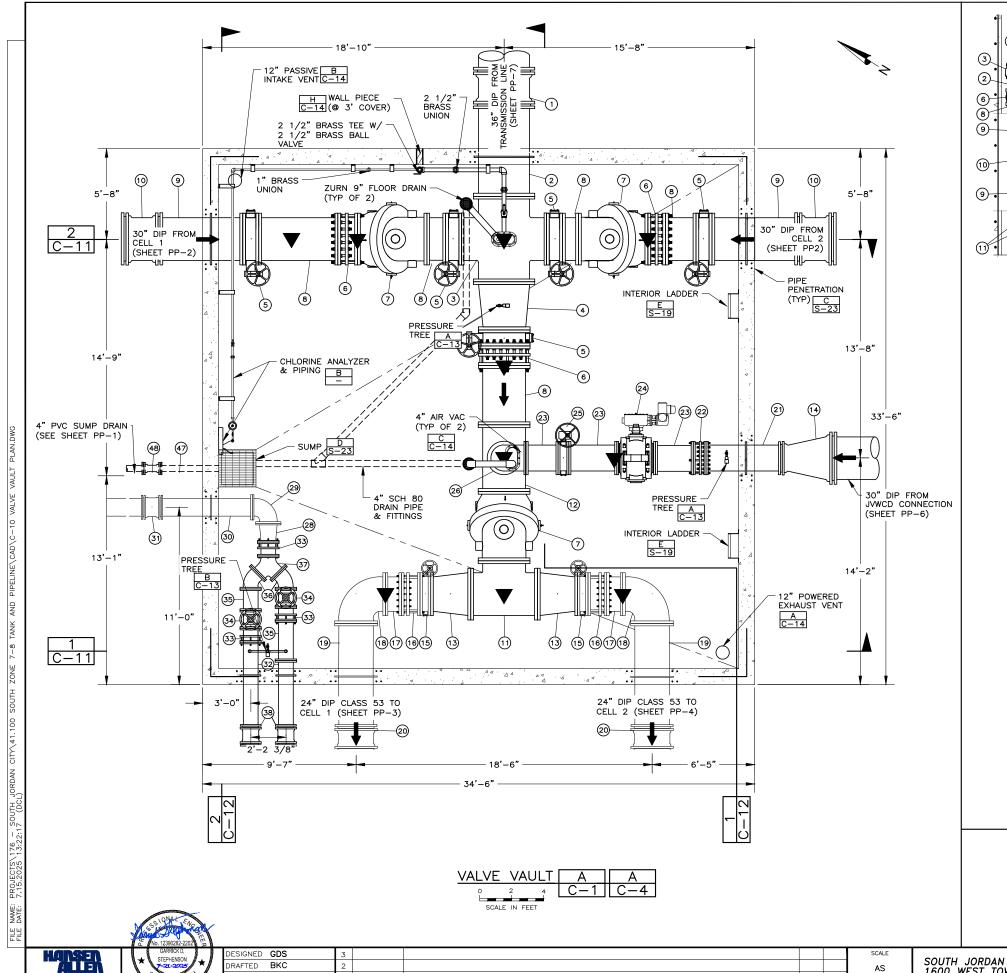




JULY 2025

DATE

REVISIONS



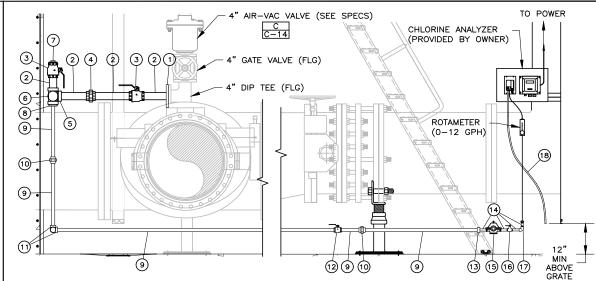
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JULY 2025

JULY 2025 ISSUED FOR BID

REVISIONS

DATE



CHLORINE ANALYZER

& PIPING NTS

	WASHDOWN &	c PUMP	SYSTEM	SCHEDULE
#	ITEM NAME	SIZE	JOINT	REMARKS
1	THREADED FLANGE REDUCER	4 X 2 1/2	FLG X THD	
2	PIPE, BRASS	2 1/2"	THD	
3	BALL VALVE, BRASS	2 1/2"	THD	
4	UNION, BRASS	2 1/2"	THD	
5	90° BEND, BRASS	2 1/2"	THD	
6	TEE, BRASS	2 1/2"	THD	
7	PLUG, BRASS	2 1/2"	THD	
8	REDUCING BUSHNG, BRASS	2 1/2" X 1"	THD	
9	PIPE, BRASS	1"	THD	
10	UNION, BRASS	1"	THD	
11	90° BEND, BRASS	1"	THD	
12	BALL VALVE, BRASS	1"	THD	
13	REDUCING BUSHING, BRASS	1" X 1/2"	THD	
14	PIPE, BRASS	1/2"	THD	SUPPORTS AS REQUIRED
15	REDUCING PRESSURE VALVE	1/2"	THD	SET TO 40 PSI
16	BALL VALVE, BRASS	1/2"	THD	
17	90° BEND, BRASS	1/2"	THD	
18	TUBING TO DRAIN	1/2"	-	SUPPORTS AS REQUIRED

GENEREAL SHEET NOTES:

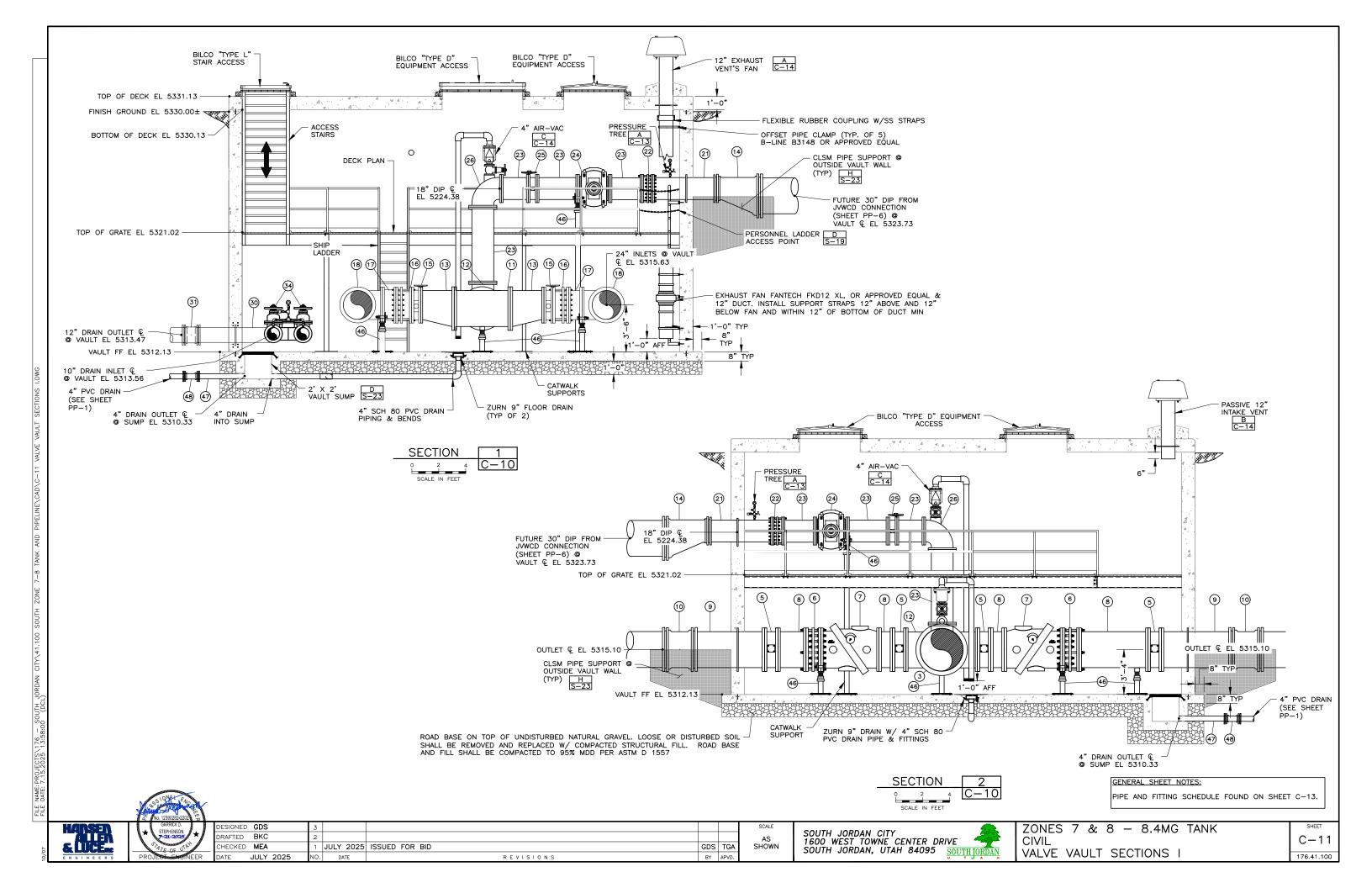
- 1. SEE SHEET C-13 FOR VALVE VAULT FITTING SCHEDULE.
- 2. SEE SHEET S-16 & S-17 FOR VAULT REINFORCEMENT PLAN.
- 3. PIPES AND VALVES TO BE LABELED PER SPECIFICATION 33 05 26.

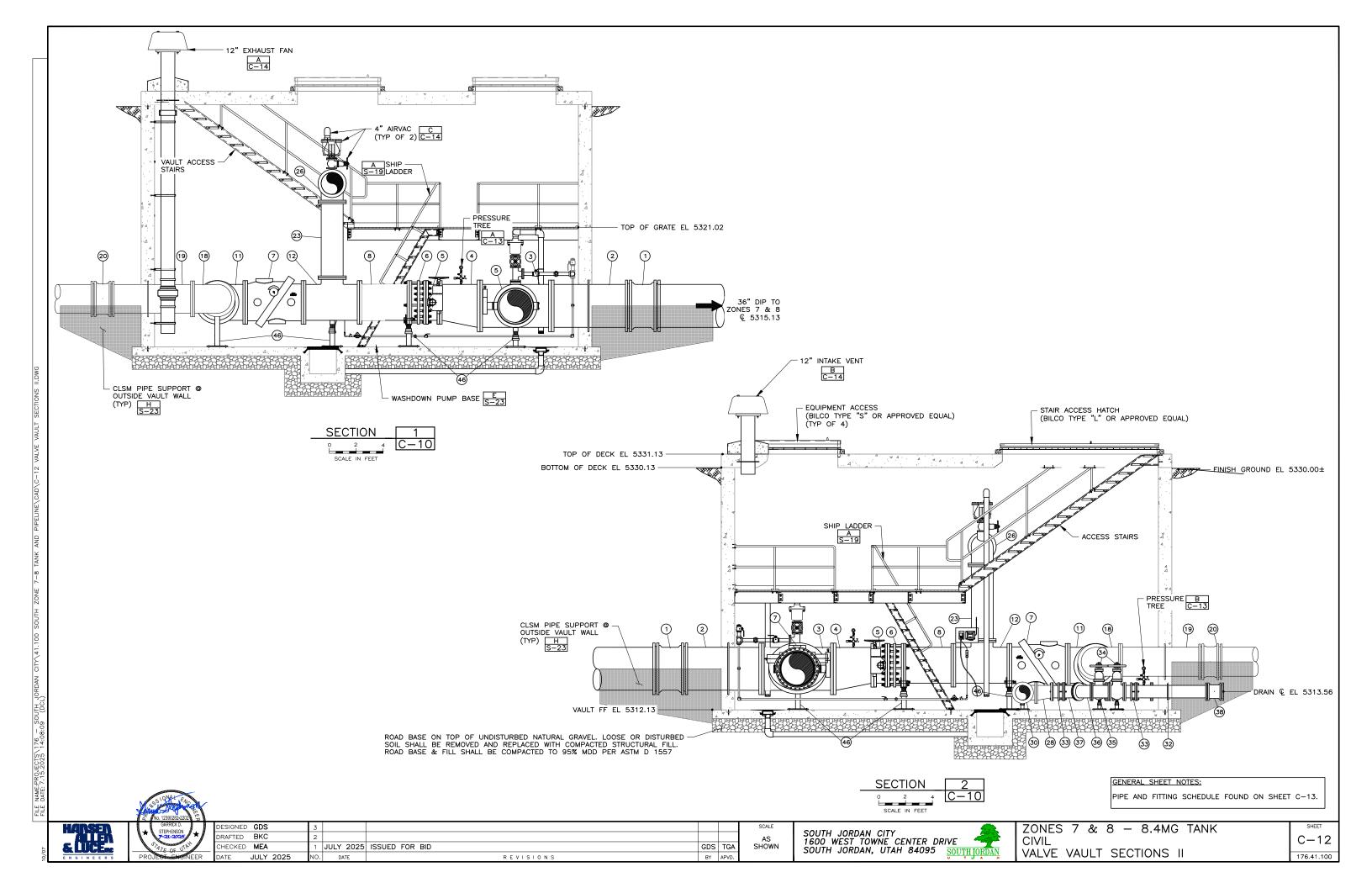
SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

GDS TGA

SHOWN

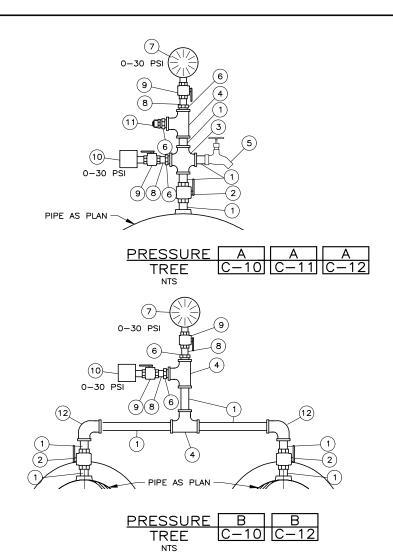
ZONES 7 & 8 — 8.4MG TANK CIVIL VALVE VAULT PLAN & PIPE DETAIL C-10 176.41.100





	PIPE, VALVE & FITTING SCHEDULE								
#	ITEM NAME	SIZE	JOINT	REMARKS					
1	LONG SLEEVE, DIP	36"	MJ						
2	WALL PIECE, DIP, CLASS 53	36"	FLG X PE						
3	CROSS, DIP, W/ 4" BOSS	36" X 30"	FLG	DRILL BOSS FOR 4" AIR-VAC					
4	ECCENTRIC REDUCER, DIP	36" X 30"	FLG						
5	BUTTERFLY VALVE	30"	FLG						
6	DISMANTLING JOINT W/ TIE RODS	30"	FLG	ROMAC RJ 400 OR APPROVED EQUAL					
7	CHECK VALVE, SLANT DISK	30"	FLG						
8	SPOOL, DIP, CLASS 53	30"	FLG						
9	WALL PIECE, DIP, CLASS 53	30"	FLG X PE						
10	LONG SLEEVE, DIP	30"	MJ						
11	TEE, DIP	30"	FLG						
12	TEE, DIP	30" X 18"	FLG						
13	ECCENTRIC REDUCER, DIP	30" X 24"	FLG						
14	ECCENTRIC REDUCER, DIP	30" X 18"	MJ						
15	BUTTERFLY VALVE	24"	FLG						
16	DISMANTLING JOINT W/ TIE RODS	24"	FLG	ROMAC RJ 400 OR APPROVED EQUAL					
17	SPOOL, DIP, CLASS 53	24"	FLG						
18	BEND, 90°, DIP	24"	FLG						
19	WALL PIECE, DIP, CLASS 53	24"	FLG X PE						
20	LONG SLEEVE, DIP, CLASS 53	24"	FLG						
21	WALL PIECE, DIP, CLASS 53	18"	FLG X PE						
22	DISMANTLING JOINT W/ TIE RODS	18"	FLG	ROMAC RJ 400 OR APPROVED EQUAL					
23	SPOOL, DIP, CLASS 53	18"	FLG						
24	BALL VALVE (AUTOMATED)	18"	FLG	W/ IQS SINGLE PHASE UNIT & GEARBOX W/ MOTOR INPUT FLANGE					
25	BUTTERFLY VALVE	18"	FLG						

26	BEND, DIP, 90°, W/ 4" BOSS	18"	FLG	
27	NOT USED	_	_	
28	REDUCER, DIP	12" X 10"	FLG	
29	BEND, 90° DIP	12"	FLG	
30	WALL PIECE, DIP, CLASS 53	12"	FLG X PE	
31	LONG SLEEVE, DIP	12"	MJ	
32	WALL PIECE, DIP, CLASS 53	10"	FLG X PE	
33	DISMANTLING JOINT W/ TIE RODS	10"	FLG	ROMAC RJ 400 OR APPROVED EQUAL
34	GATE VALVE	10"	FLG	
35	SPOOL, DIP, CLASS 53	10"	FLG	
36	BEND, DIP, 45°	10"	FLG	
37	WYE, DIP	10"	FLG	
38	LONG SLEEVE, DIP	10"	MJ	
39	PIPE & FITTINGS, SCH 80 PVC	4"	SW	
40	PIPE NIPPLES, BRASS	4"	THD	
41	VALVE, GATE W/ HANDWHEEL	4"	THD	
42	AIR-VAC COMBO VALVE	4"	THD	
43	REDUCER FITTING (SS)	3" X 2"	THD	
44	TRANSITION FITTING (SS)	3"	THD X HDPE	
45	HDPE PIPE DR 11 (IPS SIZE)	3"	FUSED	
46	PIPE SUPPORT	AS REQ'D		SEE F S-23
47	DIP CLASS 53	4"	PE	
48	LONG SLEEVE, DIP	4"	MJ	



	PRESSURE TREE SCHEDULE							
#	ITEM NAME	SIZE	JOINT	REMARKS				
1	NIPPLE (BRASS)	3/4"	THD					
2	BALL VALVE (BRONZE)	3/4"	THD					
3	CROSS (BRASS)	3/4"	THD					
4	TEE (BRASS)	3/4"	THD					
5	SAMPLE TAP (BRASS) SMOOTH NOSE	3/4"	THD					
6	BUSHING (BRASS)	3/4" X 1/2"	THD					
7	PRESSURE GAUGE (0-30 PSI)	1/2"	THD					
8	NIPPLE (BRASS)	1/2"	THD					
9	BALL VALVE (BRONZE)	1/2"	THD					
10	PRESSURE TRANSMITTER (0-30 PSI)	1/2"	THD					
11	DRAIN COCK	1/2"	THD					
12	90 DEGREE BEND (BRASS)	3/4"	THD					

* REPLACE SAMPLE TAP WITH HOSE BIBB IF REQUIRED.

GENERAL SHEET NOTE:

SEE SHEET C-10 FOR VAULT PLAN & DETAIL SCHEDULE CALL OUTS.



AND 1239028-2202 GARRICK D.
STEPHENSON

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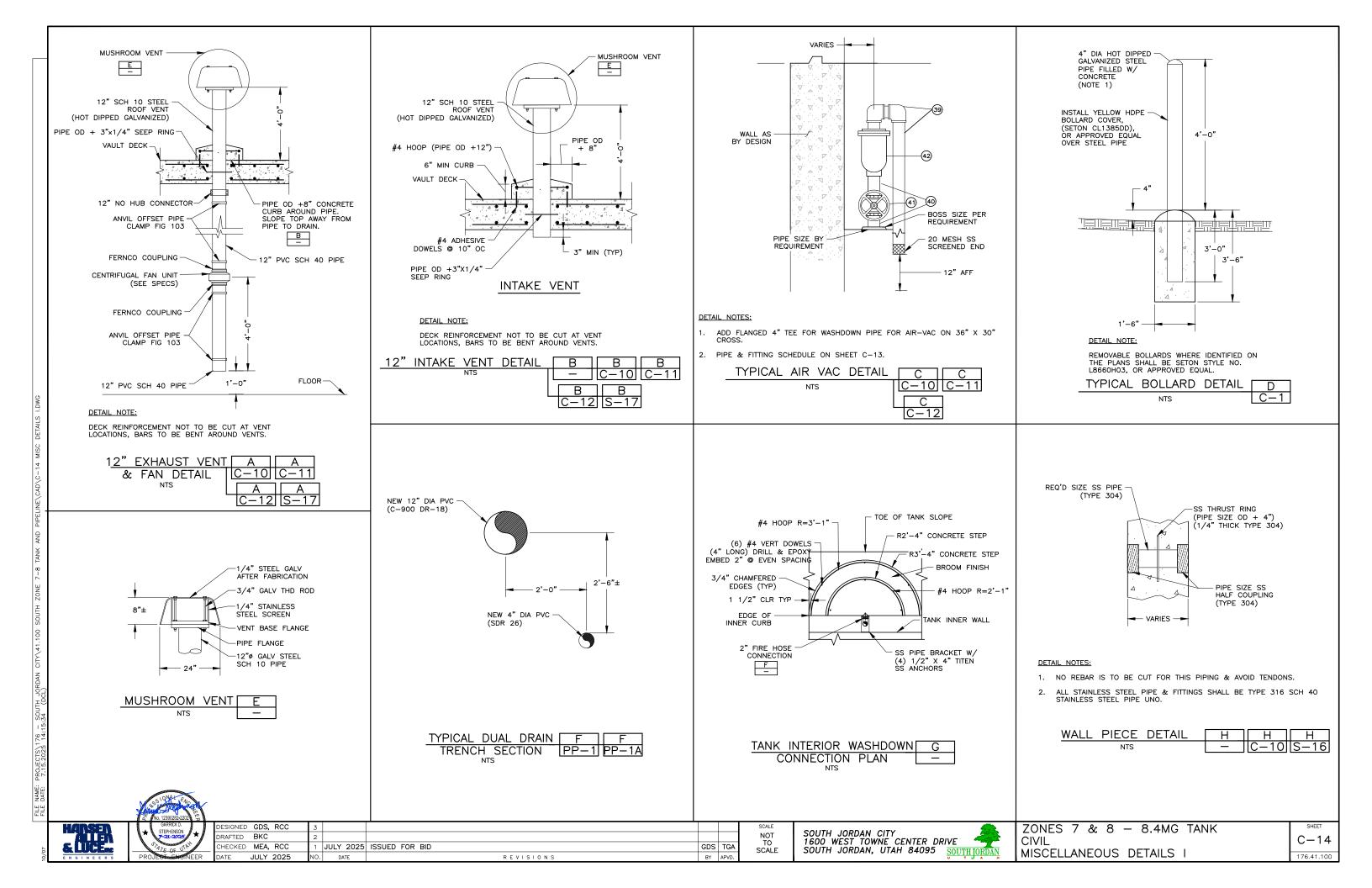
PROJECT STEPHENSON

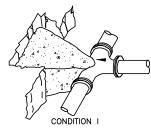
PROJECT STEP

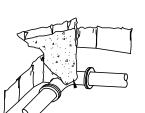
DESIGNED	GDS	3					
DRAFTED	BKC	2					
CHECKED	MEA	1	JULY 2025	ISSUED FOR BID	GDS	TGA	Sł
DATE	JULY 2025	NO.	DATE	R E V I S I O N S	BY	APVD.	

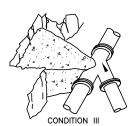
AS HOWN SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095

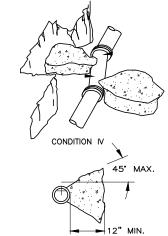
ZONES 7 & 8 — 8.4MG TANK CIVIL VALVE VAULT FITTING SCHEDULE & DETAIL





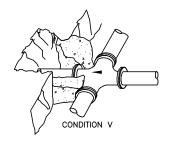


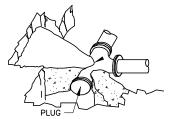




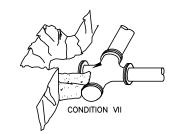
TYPICAL SECTION THROUGH THRUST BLOCKS

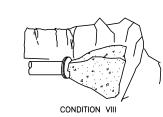
TYPICAL THRUST BLOCKING

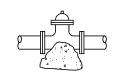




CONDITION VI





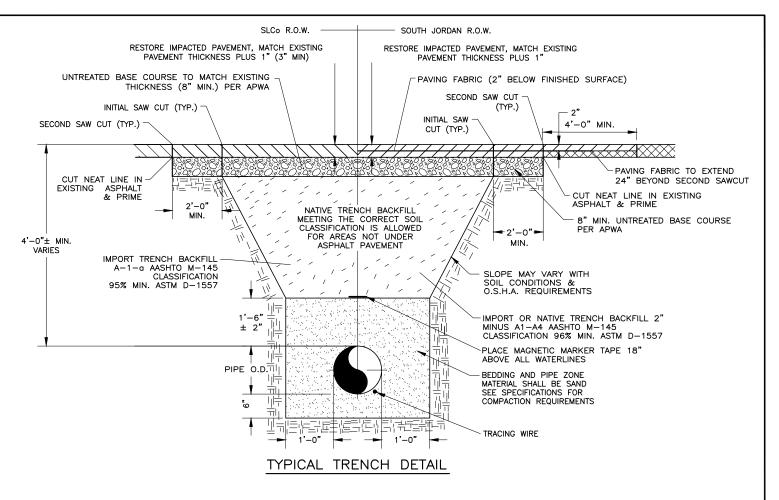


VALVE ANCHOR REQUIRED FOR VALVES 8" OR LARGER

THRUST BLOCK BEARING AREA IN SQ. FEE									
PIPE SIZE	CONDITION								
(in.)	ı	II	Ш	IV	V	VI	VII	VIII	
4	1.6	2.3	1.2	1.3	0.8	1.6	2.3	1.6	
6	3.6	5.1	2.6	2.8	1.8	3.6	5.1	3.6	
8	6.5	9.1	4.6	4.9	3.25	6.5	9.1	6.5	
10	9.9	14.0	7.0	7.6	4.95	9.9	14.0	9.9	
12	14.1	20.0	10.0	10.8	7.05	14.1	20.0	14.1	
14	19.2	27.1	13.6	14.7	9.6	19.2	27.1	19.2	
16	24.9	35.3	17.6	19.1	12.45	24.9	35.3	24.9	
18	31.5	44.5	22.5	24.1	15.75	31.5	44.5	31.5	
20	38.7	54.8	27.4	29.7	19.35	38.7	54.8	38.7	
24	55.5	78.5	39.2	42.5	27.75	55.5	78.5	55.5	
30	85.8	121.3	60.7	65.7	42.9	85.8	121.3	85.8	

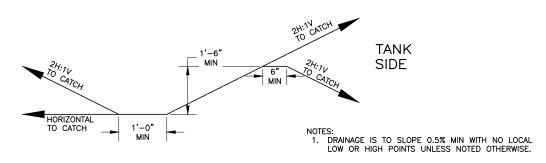
NOTES:

- ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED BACKFILL.
- 2. CONCRETE SHALL BE CLASS 6.0-B-3000.
- 3. ALL THRUST BLOCK SIDES SHALL BE FORMED.
- 4. CALCULATED ON 150 LB. TEST PRESSURE AND ALLOWABLE BEARING PRESSURE OF 2000 LBS. PER SQUARE FOOT.
- 5. IN POORER SOILS SPECIAL DESIGN IS REQUIRED.
- 6. THRUST RESTRAINT TO INCLUDE THRUST BLOCK AND JOINT RESTRAINT AT ALL BENDS.
- BRASS PIPE TO BE STANDARD "RED" BRASS PIPE MEETING ASTM B43.



NOTES:

- 1. TRENCH BACKFILL AND ASPHALT REQUIREMENTS WITHIN SALT LAKE COUNTY RIGHT-OF-WAY ALONG HIGHWAY U-111 R.O.W. SHALL BE PER SALT LAKE COUNTY REQUIREMENTS (SEE SLCo STANDARD DRAWING 240 FOR ADDITIONAL REQUIREMENTS).
- 2. TRENCH BACKFILL WITHIN CITY-OBTAINED EASEMENTS AND WITHIN SOUTH JORDAN CITY RIGHT-OF-WAY SHALL BE PER SOUTH JORDAN CITY REQUIREMENTS.
- 3. FOR UNIMPROVED AREAS WITHIN CITY-OBTAINED EASEMENTS, STRIP THE TOP 8-INCHES OF TOPSOIL AND REPLACE (COMPACT TO 85% MODIFIED PROCTOR DENSITY, ASTM D-1557) AND RE-SEED.
- 4. FOR AREAS IN THE NON-ASPHALT SHOULDER, THE TOP LAYER SHALL BE 8" MIN. OF UNTREATED BASE COURSE (96% MIN, ASTM D-1557)



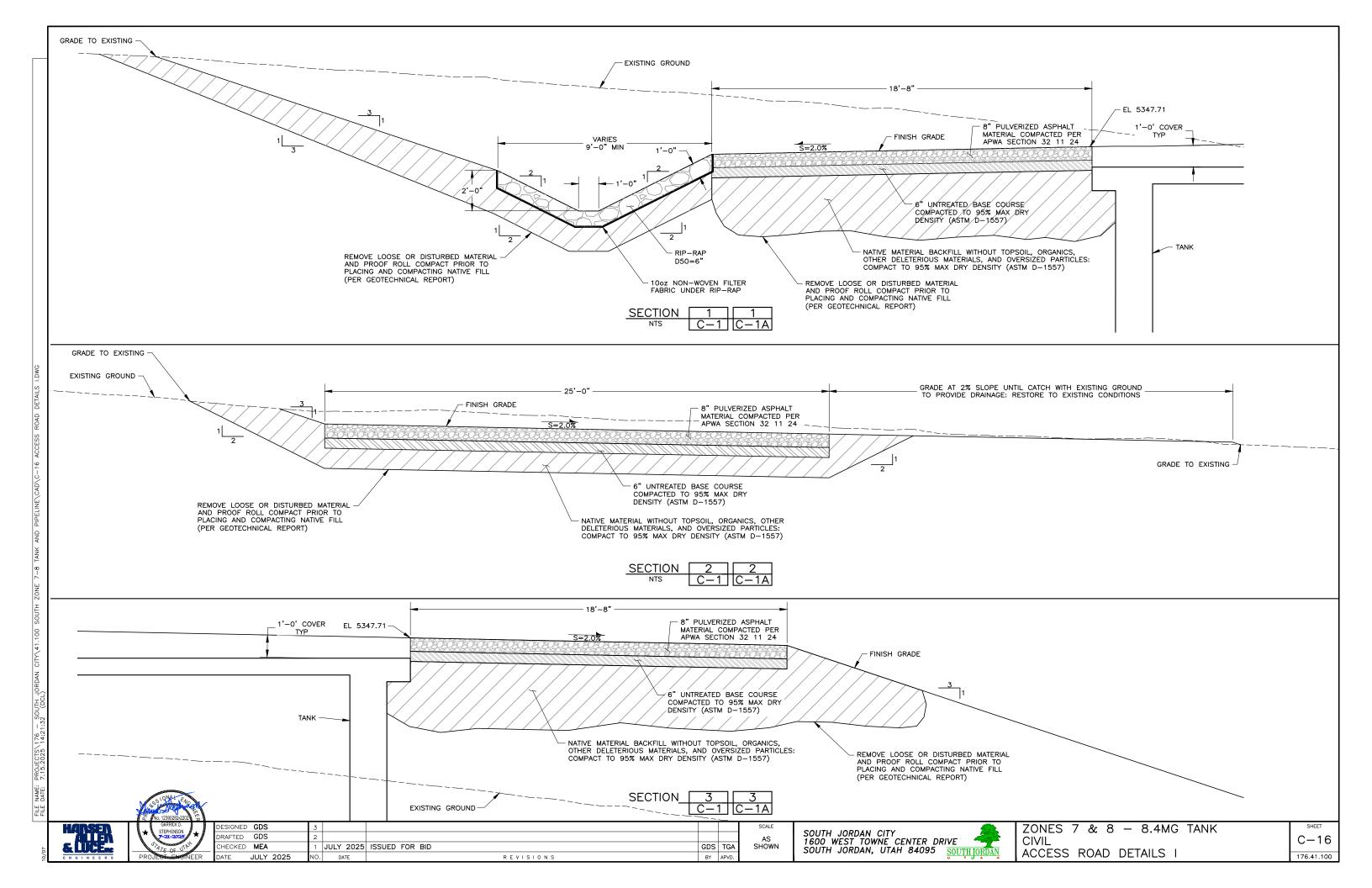
 DRAINAGE DITCH/SWALE SHALL BE REMOVED AND RESTORED TO PRE-CONSTRUCTION CONDITION AFTER THE TANK CONSTUCTION AND GRADING IS COMPLETE.

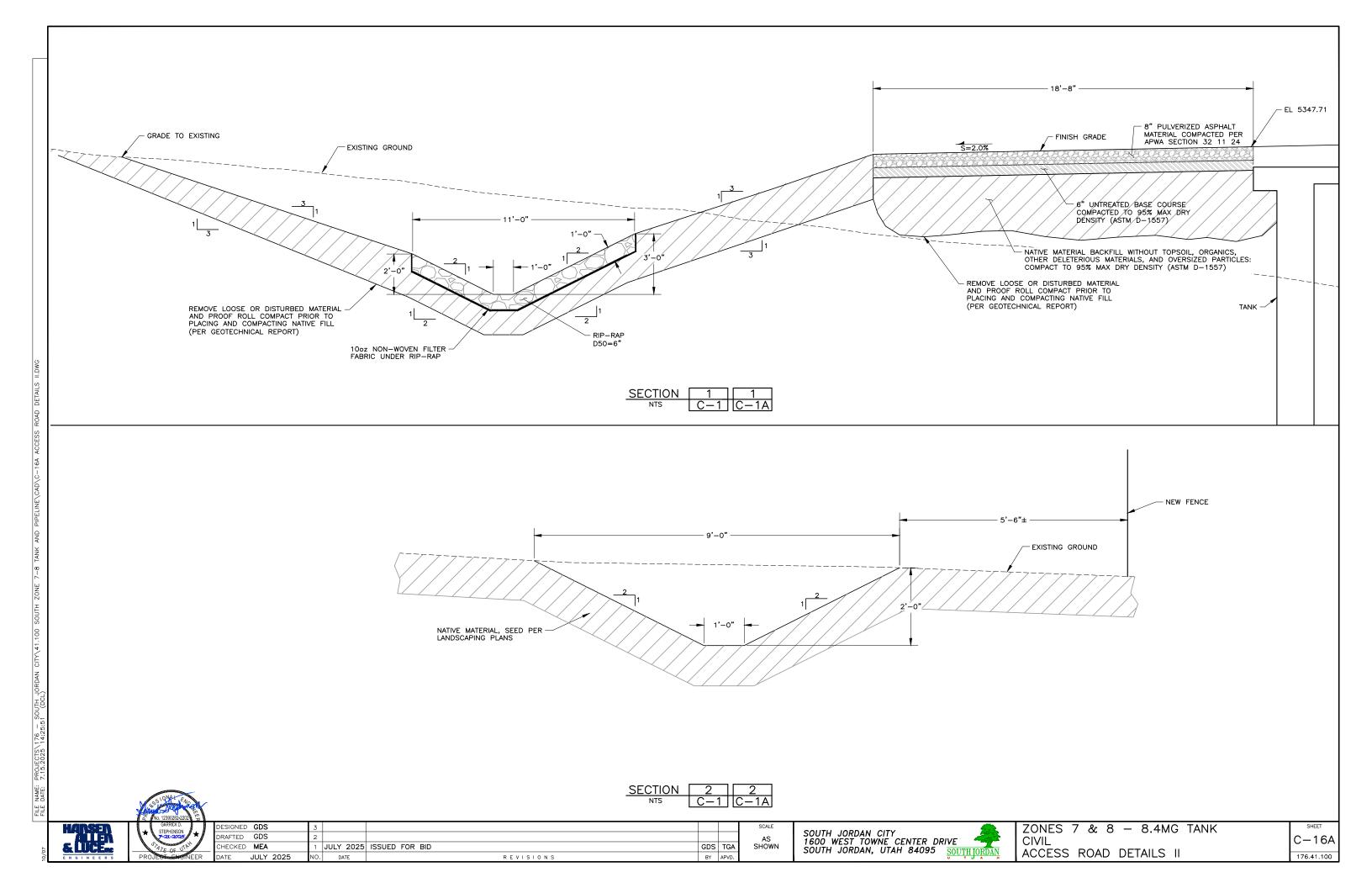
TYPICAL TEMPORARY DRAINAGE DITCH/SWALE

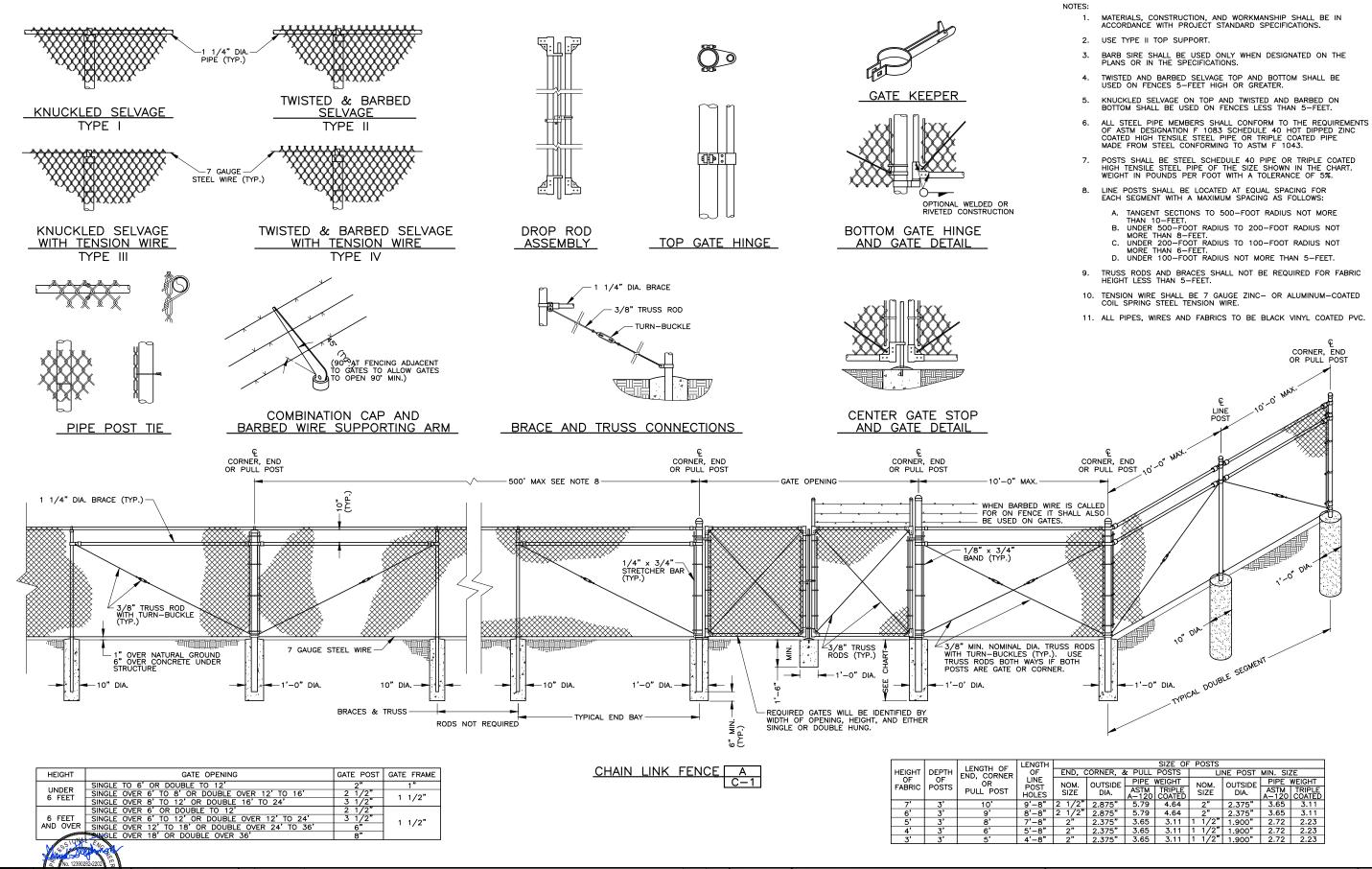
A SEA O. 1230/282-2020 SEA O.

SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH ORDAN

ZONES 7 & 8 - 8.4MG TANK CIVIL MISCELANIOUS DETAILS II SHEET C-15





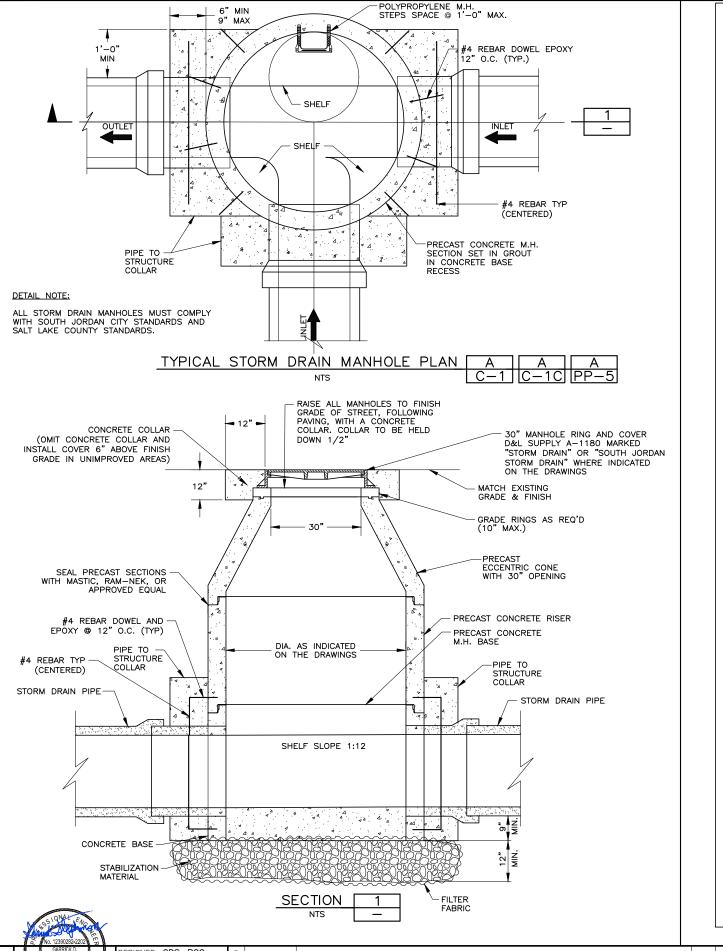


SIGNED GDS. RCC RAFTED BKC HECKED MEA, RCC JULY 2025 ISSUED FOR BID GDS TGA JULY 2025 DATE REVISIONS

NOT TO SCALE

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4MG TANK CIVIL CHAIN LINK FENCING & DETAILS C - 17176.41.100



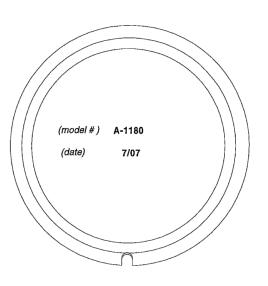
A-1180
WITH UNIVERSAL HOLE

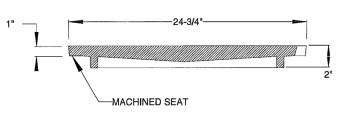


Storm Drain Manhole Cover

(Platen-bottom cover)







COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

CAST IRON conforms to ASTM A-48-93 Class 35B Meets H-20 Wheel Loading D&L model No. A-1180

D&L Foundry & Supply

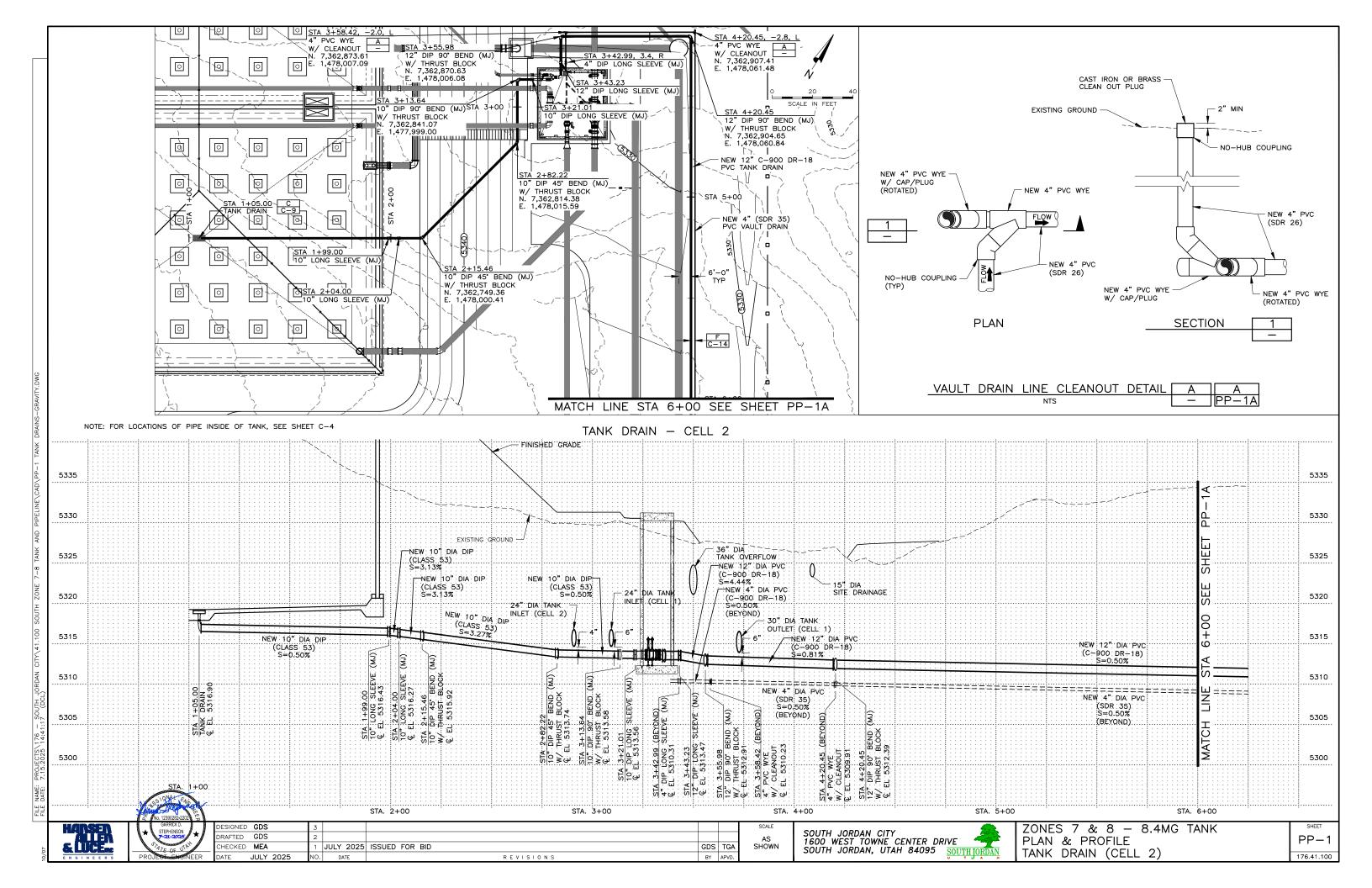
A-1180 Date: Proposed by: Jesse Walter D&L Foundry & Sup

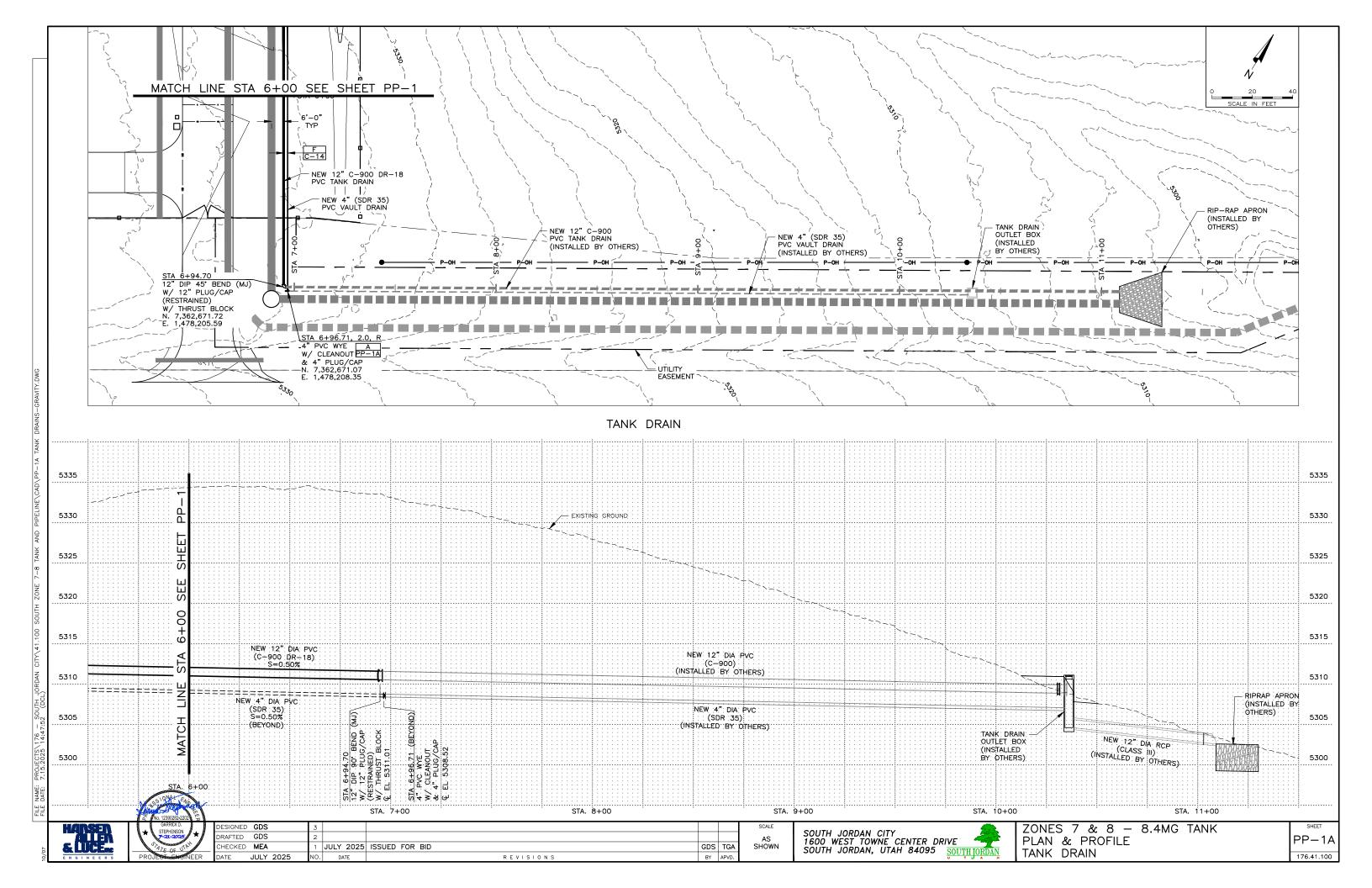
CA Sales: (707) 557-4525 Fax: (707) 557-4655 UT Sales: (801) 785-5015 Fax: (801) 785-0835 WA Sales: (509) 765-7952 Fax: (509) 765-8124

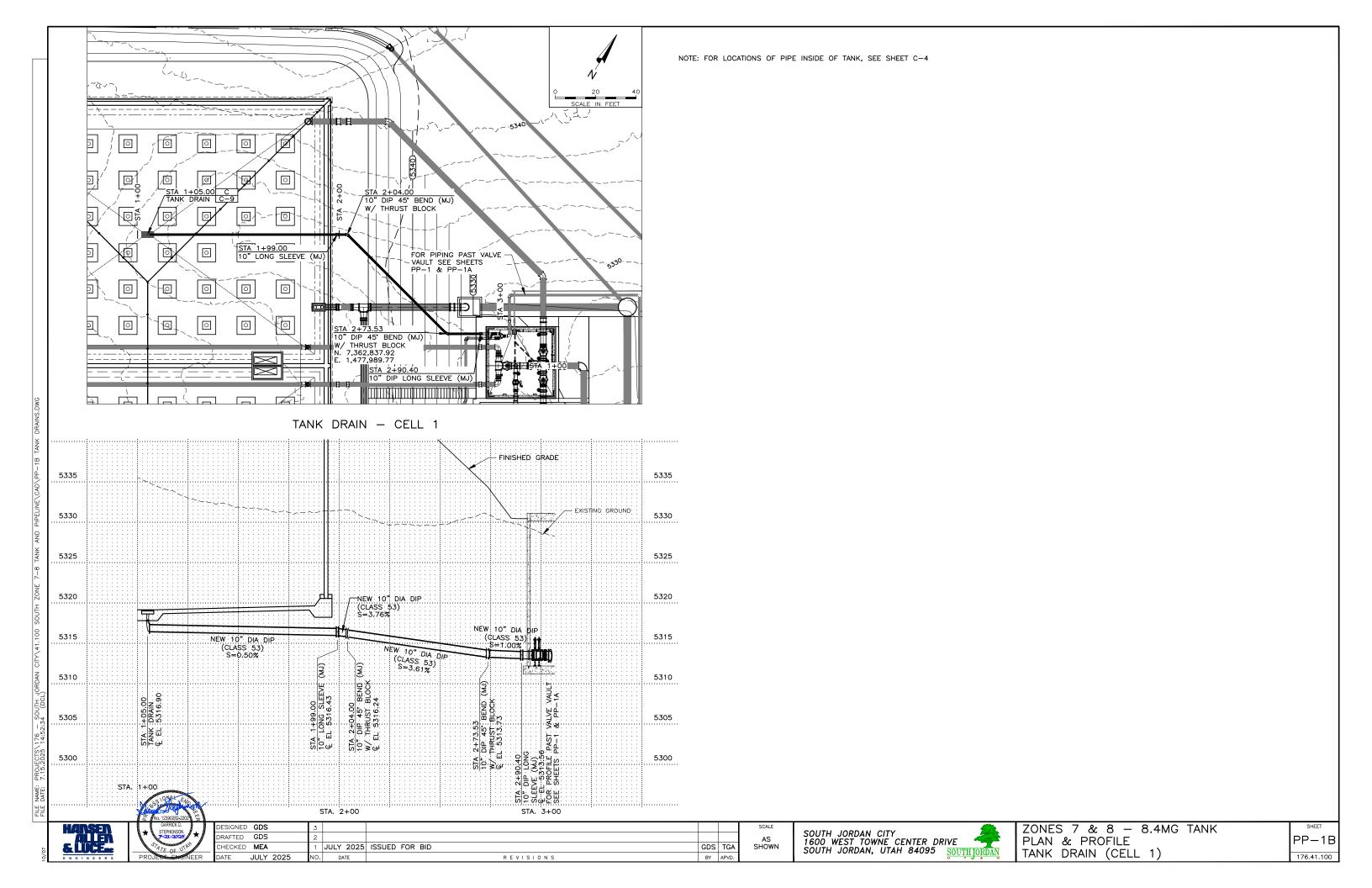


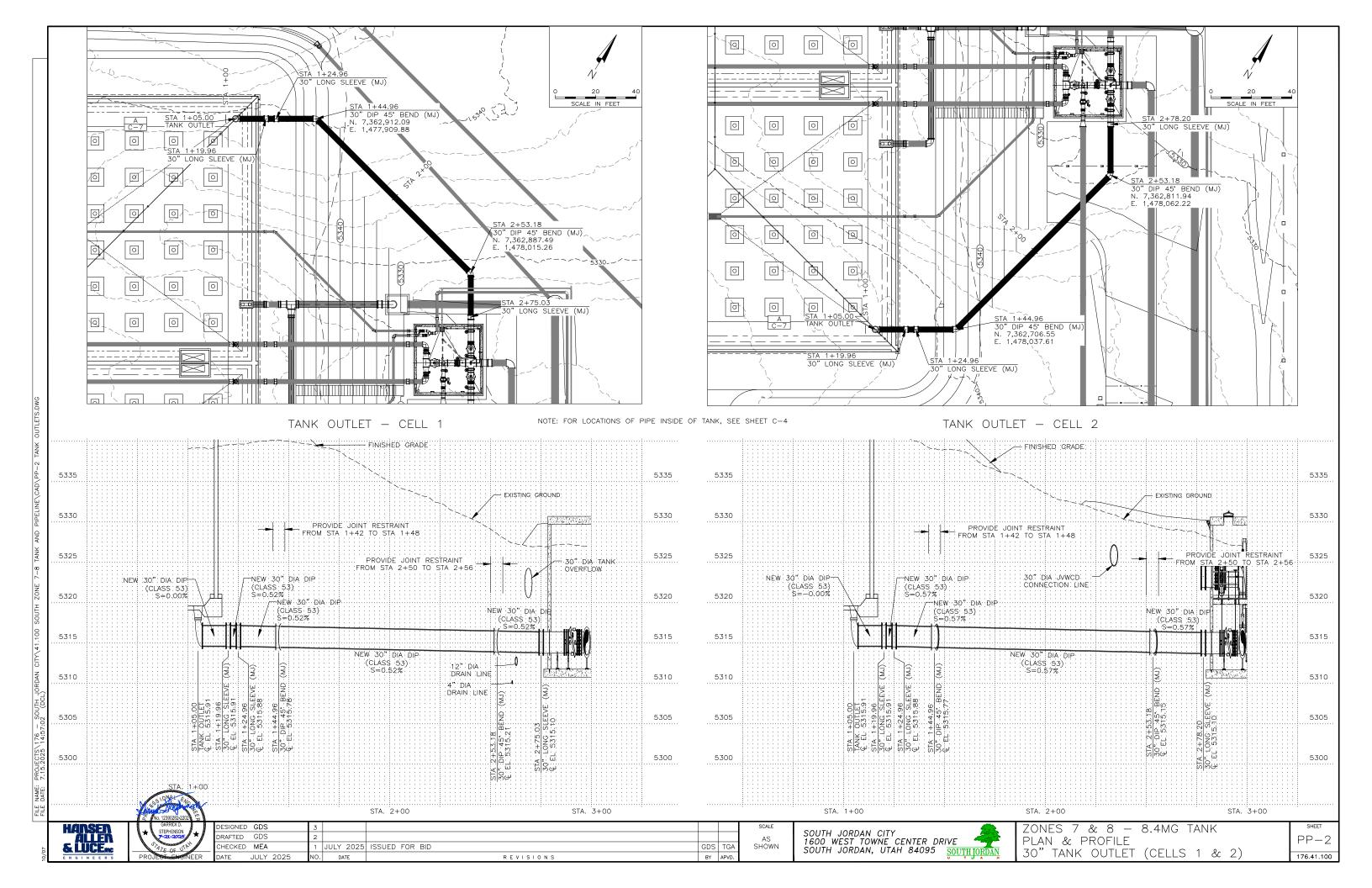
SCALE
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TO
SCALE
SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

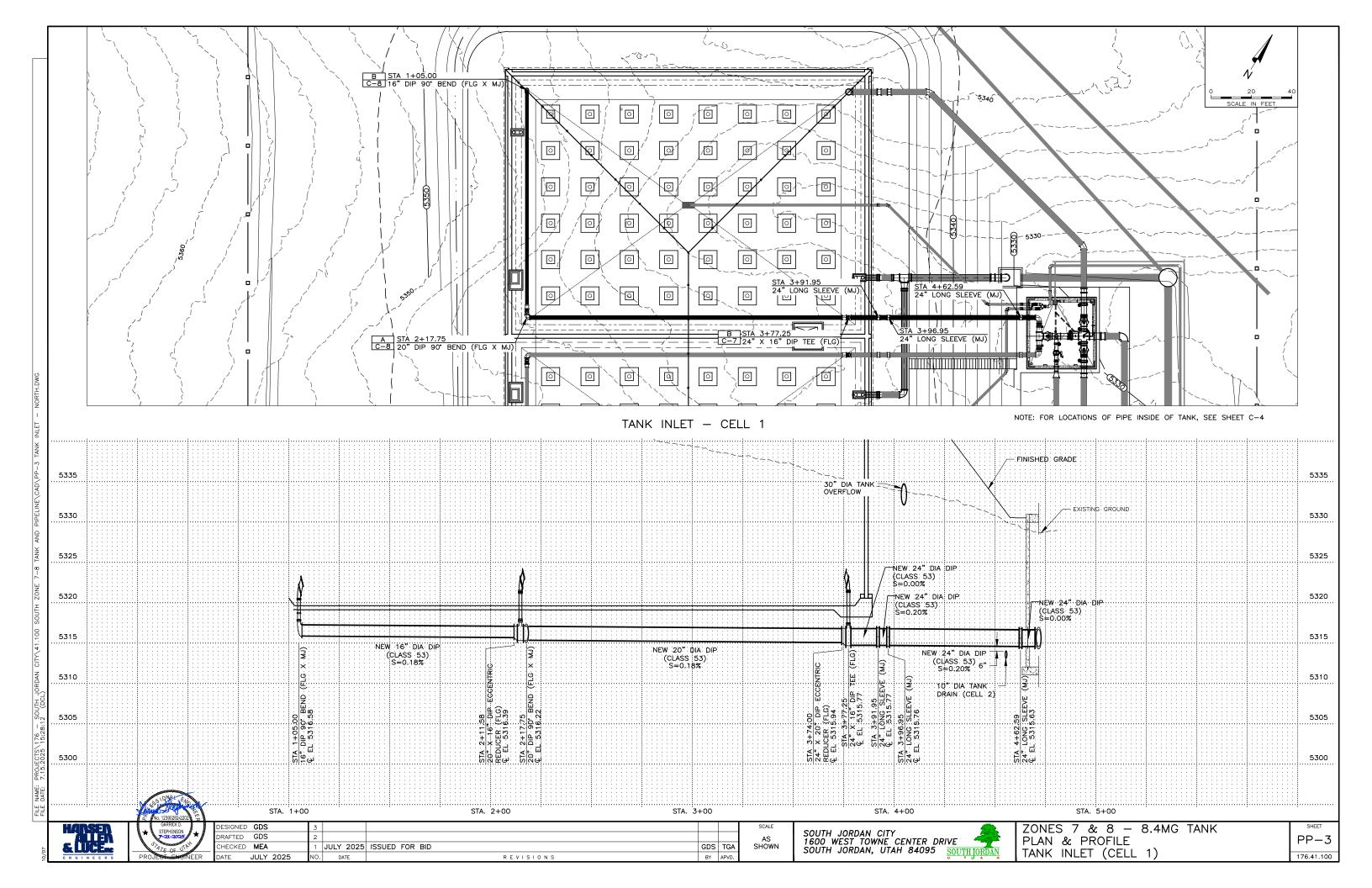
ZONES 7 & 8 — 8.4MG TANK CIVIL STORM DRAIN DETAILS SHEET
C-18

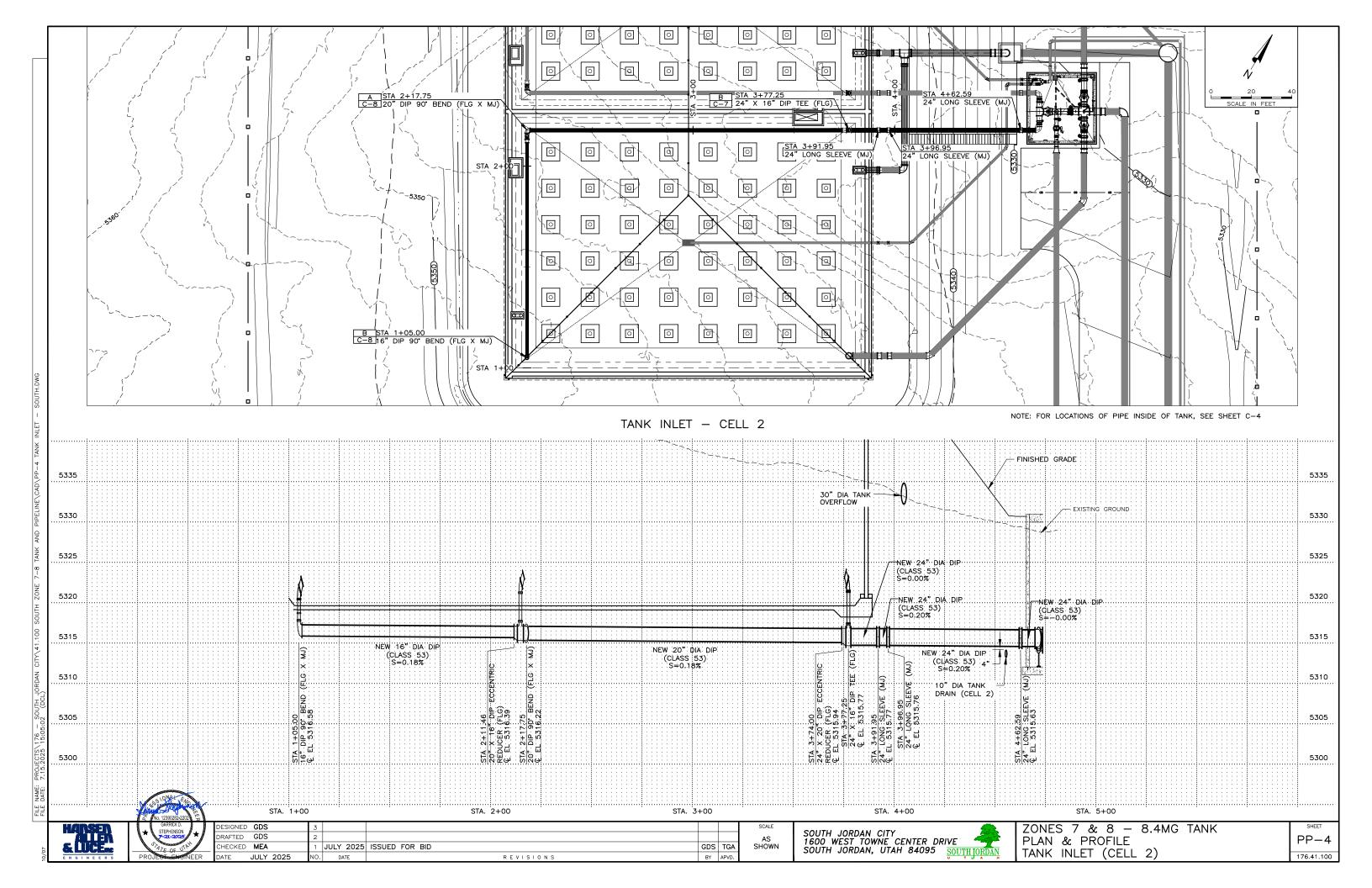


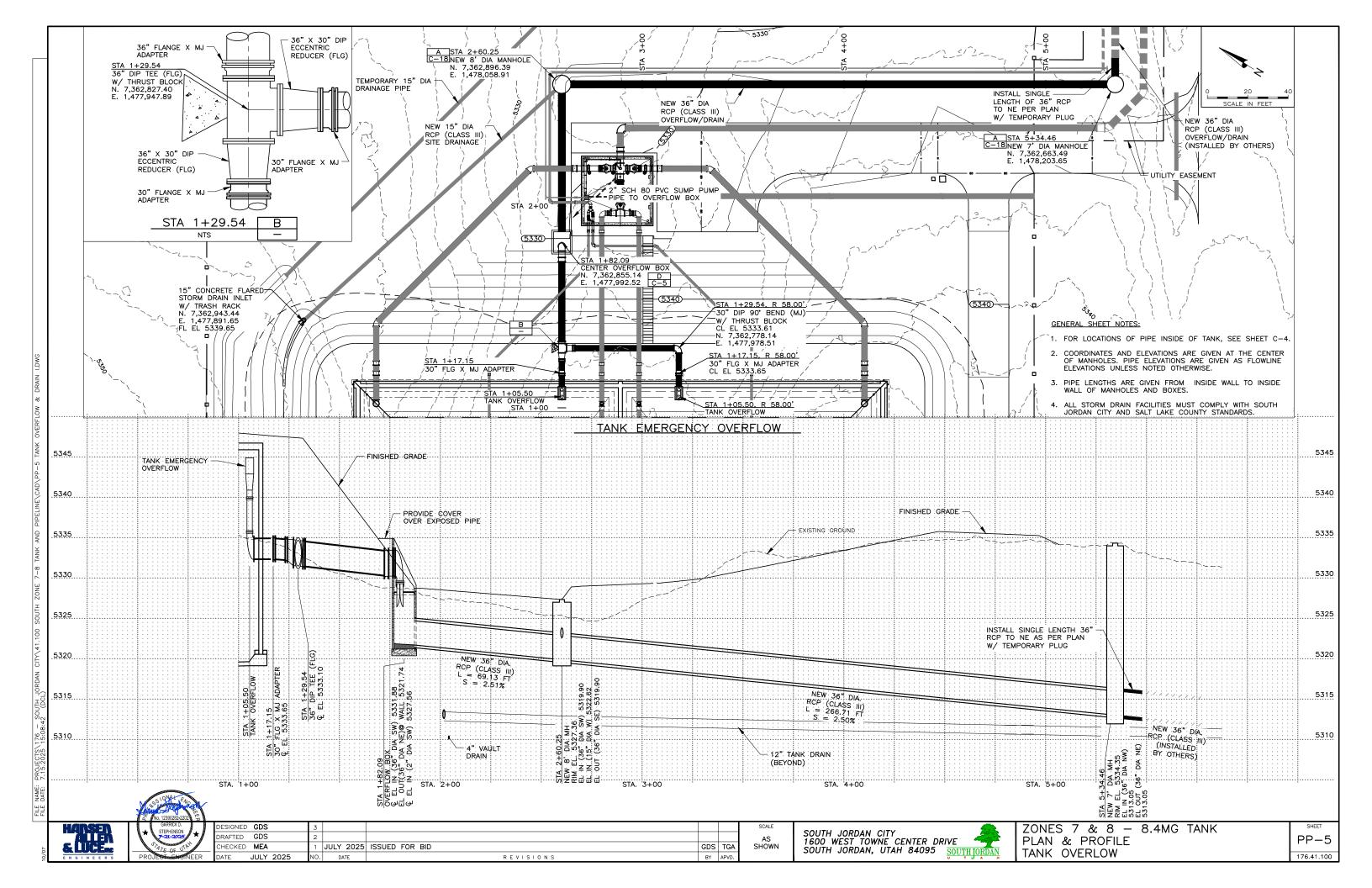


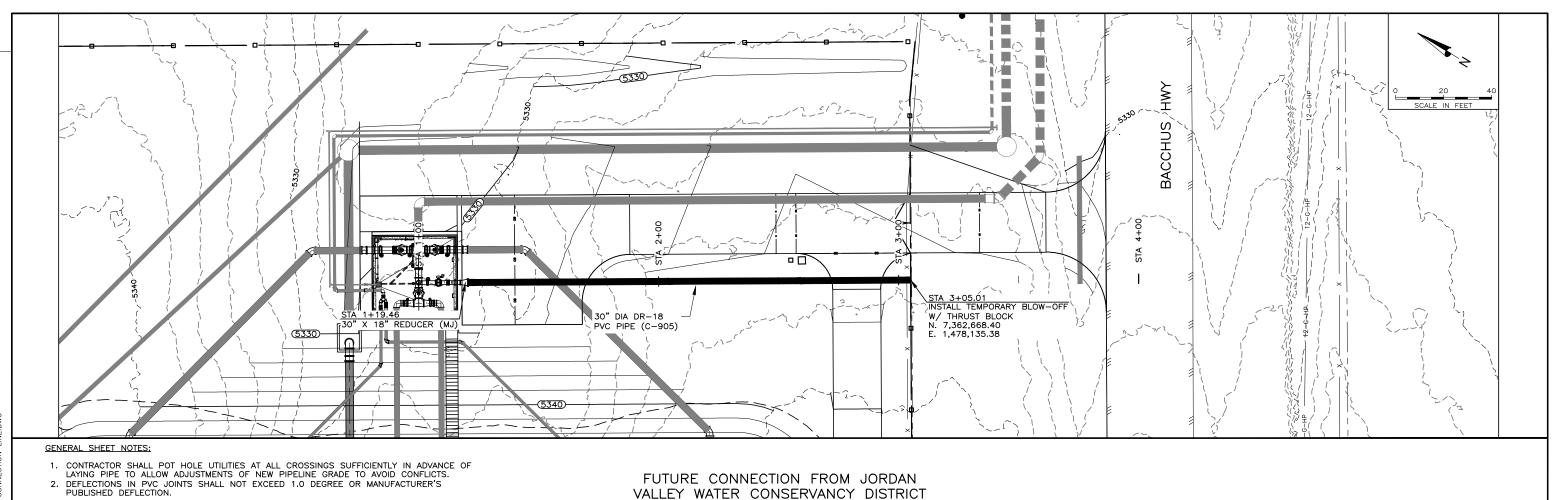




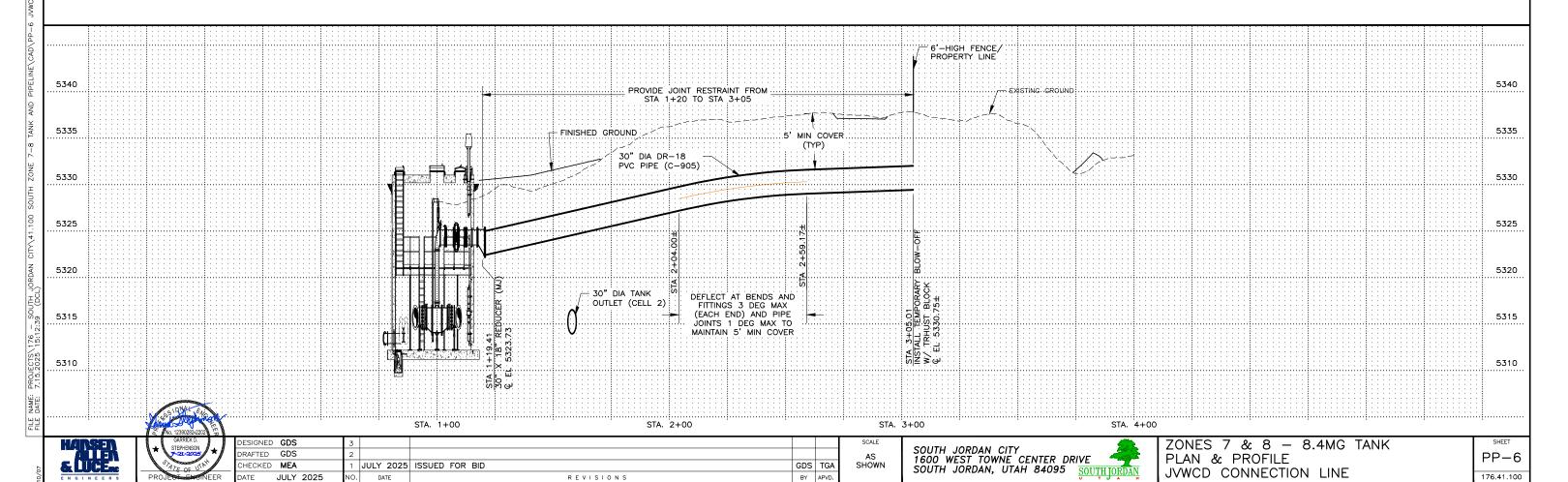


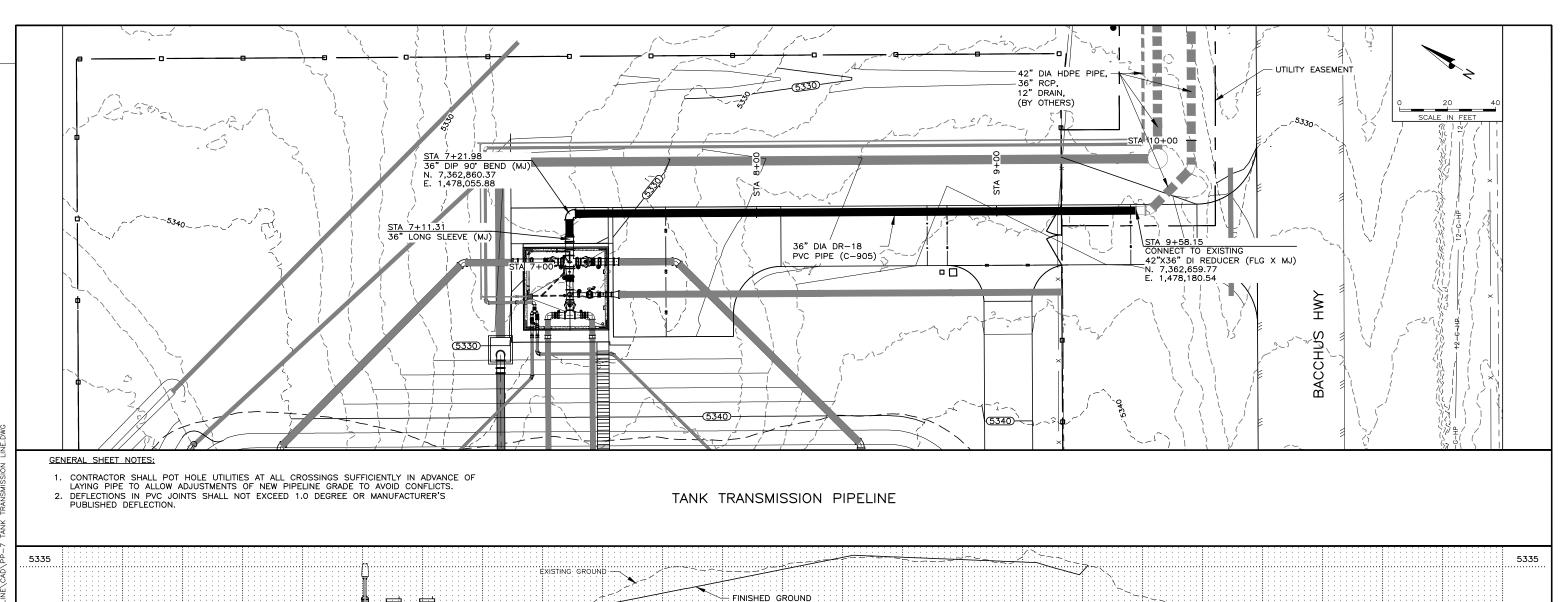






VALLEY WATER CONSERVANCY DISTRICT





5330 5330 PROVIDE JOINT RESTRAINT FROM STA 9+06 TO STA 9+58 5325 5325 PROVIDE JOINT RESTRAINT FROM STA 7+11 TO STA 7+61 5320 5320 NEW 36" DIA DR-18 PVC PIPE (C-905) S=-0.00% 5315 5315 NEW 36" DIA DR-18 PVC PIPE (C-905) S=0,30% M) 5310 5310 42" DIA HDPE PIPE (BY OTHERS) 5305 5305 STA 7+11.31 36" LONG SLEEVE: Q EL 5315.13 STA 7+21.98 36" DIP 90' BEND Q EL 5315.13 STA 9+58.15 CONNECT TO E 42" X 36" DI F © EL 5314.42 5300 5300 STA. 7+00 STA. 8+00 STA. 9+00 STA. 10+00

GDS TGA

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN ZONES 7 & 8 - 8.4MG TANK

TANK TRANSMISSION LINE

PLAN & PROFILE

PP-7

176.41.100

ESIGNED GDS

RAFTED GDS

HECKED **MEA**

JULY 2025

JULY 2025 ISSUED FOR BID

REVISIONS

DATE

- 2. ALL CONSTRUCTION SHALL BE ACCORDING TO THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF UTAH.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND SAFETY IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.
- 4. CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS BOTH DURING AND AFTER CONSTRUCTION.

DESIGN CRITERIA

1.	RISK CATEGORY:	IV
2.	IMPORTANCE FACTOR, Is :	1.20
3.	IMPORTANCE FACTOR, & :	1.50
4.	WIND SPEED (3 SECOND GUST):	115 MP

5. SEISMIC DESIGN CATEGORY: "D' SITE CLASS: "C" 0.860g 1.2 0.688g 0.470g 1.5 0.470g

SEISMIC SNOW CONTRIBUTION 9 PSF

100 PSF (8" ROOF SLAB) 125 PSF (1'-0" SOIL) 50 PSF (LIFE LOAD) 52 PSF (GROUND SNOW LOAD) 150 PSF (12" ROOF SLAB) 7. VAULT ROOF LOADS: 10 PSF (MISC EQUIP) 60 PSF (LIVE LOAD)

SOILS REPORT PROVIDED BY: ALLOWABLE SOIL BEARING PRESSURE:

AGEC RPT #1210477 2500 PSF (NATIVE) 3500 PSF (ON 2' STRUCTURAL FILL OR NATURAL GRAVEL)

52 PSF (GROUND SNOW LOAD)

COEFFICIENT OF FRICTION (u): 0.4 65 PSF AT-REST PRESSURE: AT-REST SEISMIC INCREASE: 12 PSF 50 PSF 27 PSF 250 PSF 27 PSF ACTIVE PRESSURE:
ACTIVE SEISMIC INCREASE:
ACTIVE SEISMIC INCREASE:
PASSIVE PRESSURE:
PASSIVE SEISMIC DECREASE:

STRUCTURAL NOTES:

REINFORCED CONCRETE:

TANK ROOF LOADS:

- 1. ALL CONCRETE CONSTRUCTION, INCLUDING BENDING OF BARS, SHALL COMPLY WITH ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
- 2. UNLESS CALLED OUT OTHERWISE ON THE PLANS, MINIMUM REINFORCEMENT OF CONCRETE FOR PUMP STATION WORK SHALL BE:

8" THICK OR LESS - USE #5 @ 16" E.W. 9" OR THICKER - USE #5 @ 12" E.W., E.F. 8" THICK OR LESS - USE #4 @ 16" E.W.

- ALL WALL REINFORCEMENT AT CORNERS OR JUNCTIONS OF WALLS SHALL BE CONTINUOUS, LAPPED, OR TERMINATED IN A STANDARD 90 DEGREE HOOK. LAP SPLICES SHALL CONFORM WITH NOTE 6. 4. UNLESS SHOWN OTHERWISE ALL BARS SHALL BE DOWELED. DOWELS SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCEMENT WHICH IS TO BE SPLICED TO THE DOWELS.
- ALL REINFORCING BARS SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM A-615, CURRENT REVISION. REINFORCING STEEL SHALL BE NEW AND FREE FROM RUST, OIL OR OTHER BOND INHIBITOR.
- ALL CONTINUOUS REINFORCING BARS SHALL LAP PER LAP LENGTH MINIMUM GIVEN. SPLICES SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS.
- LAP LENGTHS: 60 BAR DIAMETER FOR TANK ROOF REINFORCEMENT (EPOXY COATED) 40 BAR DIAMETER FOR ALL OTHER LOCATIONS NOTE: 18" MIN LAP LENGTH REQUIRED.
- CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS:
 1. SURFACE NOT EXPOSED DIRECTLY TO THE GROUND, WATER OR WEATHER AFTER FORM REMOVAL:
- REMOVAL:
 CONCRETE SLABS IN BUILDINGS - - 3/4"

 7.2. CONCRETE SLABS IN WATER BEARING SURFACES EXPOSED DIRECTLY TO THE GROUND, WATER OR WEATHER AFTER FORM REMOVAL:
 FOR #5 BARS OR SMALLER - 1-1/2"
 FOR #6 BARS OR LARGER - 2"
- CONCRETE PLACED DIRECTLY AGAINST GROUND - 3" REINFORCEMENT SHALL BE PLACED WITHIN A TOLERANCE OF $\pm 1/4$ " OF POSITION
- CONCRETE CURING SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SOME CONCRETE CONCRETE CURING SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SOME CONCRETE WORK REQUIRES WATER CURING, AS MEMBRANE CURING IS NOT ALLOWED. CONTRACTOR IS WARNED THAT WATER CURING IS DIFFICULT AT TIMES DUE TO WIND AND DRY CONDITIONS. CONTRACTOR SHALL STUDY REQUIREMENTS AND SHALL FURNISH ADEQUATE SYSTEMS TO PROVIDE WATER CURING WHERE REQUIRED. TOP OF WALLS SHALL BE KEPT VISIBLY MOIST AT ALL TIMES AND SHALL BE FLOODED NOT LESS THAN THREE TIMES DAILY.

REINFORCED CONCRETE CONT.

- A. FOR POURING CONCRETE DURING COLD WEATHER:
 - FOLLOW RECOMMENDATIONS CONTAINED IN PUBLICATION ACI 306R
 - "COLD—WEATHER CONCRETING," CURRENT REVISION.
 PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH
 WHICH COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW
 TEMPERATURES
 - WHICH COULD BE CAUSED BY FRUST, FREEZING ACTIONS OF LOW TEMPERATURES.
 WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40'F OR 4'C, UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT LESS THAN 50'F OR 10'C, AND NOT MORE THAN 80'F OR 27'C AT TIME OF PLACEMENT. CONCRETE SHALL BE AIR ENTRAINED WITH AIR CONTENT OF 6% +/- 1% BY
 - CONCRETE SHALL BE AIR ENTRAINED WITH AIR CONTENT OF 6%
 - CONCRETE SHALL BE AIR ENTRAINED WITH AIR CUNTENT OF 6% +/- 1% BY VOLUME.

 DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE OR ON SUBGRADE CONTAINING FROZEN MATERIALS.

 DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS, UNLESS OTHERWISE APPROVED IN THE MIX DESIGN.

 COVER AND HEAT CONCRETE FOR A MINIMUM OF 7 DAYS AS SECONDAINDER DR ACT SORE CUIRPENT REVISION.
- B. FOR POURING CONCRETE DURING HOT WEATHER:

FOLLOW RECOMMENDATIONS CONTAINED IN PUBLICATION ACI 305R "COLD-WEATHER CONCRETING." CURRENT REVISION. PROTECT CONCRETE FROM FLASH CURING BY PROVIDING A WATER/MOISTURE CURE FOR 3 DAYS. A 4500 PSI MIN (WITH A 6-1/2 BAG MIX) IS RECOMMENDED FOR THESE CONDITIONS.

- NO BACKFILL SHALL BE PLACED AGAINST WALLS UNTIL CONCRETE HAS REACHED 85 PERCENT OF THE SPECIFIED STRENGTH AND THE CONNECTING SLABS AND BEAMS HAVE BEEN CAST AND HAVE REACHED 85 PERCENT OF THE SPECIFIED STRENGTH.
- 10. CONCRETE TO HAVE A MIN 28 DAY STRENGTH OF 4000 PSI FOR VAULT & 5000 PSI FOR TANK. PORTLAND CEMENT SHALL BE TYPE II OR TYPE V.

WELDING

- WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS), LATEST EDITION:
 D1.1, STRUCTURAL WELDING CODE STEEL
 D1.2, STRUCTURAL WELDING CODE ALUMINUM
 D1.3, STRUCTURAL WELDING CODE SHEET STEEL
 D1.4, STRUCTURAL WELDING CODE REINFORCING STEEL
 D1.6, STRUCTURAL WELDING CODE STAINLESS STEEL
- 2. REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1. SEC 5.26.
- 3. USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.

- SOILS REPORT WAS PREPARED FOR THE SITE BY AGEC (RPT #1210477). THE MOST RESTRICTIVE RECOMMENDATIONS CONTAINED IN THE REPORT VS. REQUIREMENTS ON THE DRAWING OR TECHNICAL RECOMMENDATIONS SHALL GOVERN. CONTRACTORS DEWATERING ENGINEER SHALL MAKE ESTIMATES FOR DEWATERING QUANTITIES AND SHALL NOT RELY ON ESTIMATES PROVIDED IN AGEC REPORT.
- ALL ORGANIC MATERIALS, RUBBISH, UNSUITABLE FILL, TOPSOIL, ETC. SHALL BE REMOVED FROM BENEATH LOCATIONS OF PROPOSED FOOTINGS, CONCRETE SLABS AND ASPHALT
- CONTRACTOR SHALL COMPLY WITH THE MOST RESTRICTIVE REQUIREMENTS IN THE PROJECT
- SCARIFY ENTIRE FLOOR AND FOOTING AREA TO A MIN DEPTH OF 8 INCHES AND RECOMPACT TO 95% MIN DENSITY AS DETERMINED ASTM D1557 AND GEOTECHNICAL REPORT.
- SUBGRADE AND STRUCTURAL FILL PLACED UNDER FOOTINGS, SLAB AND AROUND PIPE BLOCKS SHALL BE COMPACTED TO A MIN OF 95% DENSITY AND WITHIN 2% OPTIMUM MOISTURE AS DETERMINED BY ASTM D1557 AND GEOTECHNICAL REPORT.
- SLABS SHALL BE PLACED ON UNTREATED ROAD BASE COMPACTED BACKFILL COMPACTED PER GEOTECHNICAL REPORT, PROJECT SPECIFICATIONS, AND
- UNLESS OTHERWISE NOTED, IMPORTED GRANULAR MATERIAL USED FOR BACKFILL SHALL SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND SHALL COMPLY WITH SPECIFICATIONS FOR GRADATIONS.
- BACKFILL PLACED AROUND THE TANK SHALL BE COMPACTED TO A MIN OF 90% DENSITY AND WITHIN 2% OPTIMUM MOISTURE AS DETERMINED BY ASTM— D1557. USE ONLY HAND—HELD COMPACTION EQUIPMENT WITHIN 3 FEET OF TANK WALL AND LIGHTWEIGHT EQUIPMENT BEYOND THE 3 FOOT SO AS NOT TO DAMAGE THE WALL. BACKFILL SHALL BE PLACED UNIFORMLY AROUND ALL SIDES OF THE TANK IN LIFTS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS. THE MAX ALLOWABLE ELEVATION DIFFERENCE OF THE WALL BACKFILL ACROSS THE TANK SHALL BE 3 FEET AND PER THE GEOTECHNICAL REPOR
- UNDER NO CIRCUMSTANCES MAY THE EARTH AND LIVE LOADS ON THE ROOF EXCEED THOSE INDICATED IN NOT 1 UNDER DESIGN DATA. BACK FILLING OPERATIONS SHALL NOT COMMENCE UNTIL THE ROOF AND COLUMNS HAVE OBTAINED FULL STRENGTH AND A MINIMUM OF 28 DAYS AFTER PLACING. THE BACKFILL ON THE ROOF SHALL BE PLACED WITH LIGHTWEIGHT CONSTRUCTION EQUIPMENT ONLY; 6000 LBS OR LESS IN GROSS
- 10. SEE SPECIFICATIONS AND GEOTECHNICAL REPORT FOR COMPLETE REQUIREMENTS
- 11. ALL FREE WATER SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION PRIOR TO
- 12. EXTERIOR FOOTINGS AND GRADE BEAMS SHALL BE LOCATED AT LEAST 30" BELOW FINISHED GRADE.
- FOOTING AND FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED IN WRITING BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE FORMS 13.

WATER PIPELINE NOTES

- 1. ALL DUCTILE OR CAST IRON PIPE FITTINGS INCLUDING COMPRESSION ALL DUCTILE OR CAST IRON PIPE FITTINGS INCLUDING COMPRESSION
 COUPLINGS. MECHANICAL JOINTS, FLANGED JOINTS, VALVES, HYDRANTS
 AND FITTINGS INCLUDING TEES, WYES, ELBOWS, PLUGS, ETC. EXPOSED
 TO SOIL SHALL BE WRAPPED WITH 8 MIL THICK POLYETHYLENE FILM TUBE.
 ALL EXPOSED NUTS & BOLTS SHALL BE LIBERALLY COATED WITH FM GREASE
 PRIOR TO WRAPPING. THE FILM SHALL BE HELD IN PLACE BY 2—INCH WIDE
 PLASTIC BACKED ADHESIVE TAPE EQUAL TO POLYKEN NO. 900 OR SCOTCHRAP
 NO. 50. THE TAPE SHALL BE INSTALLED TO TIGHTLY SECURE THE FILM TO E PIPE. ENOUGH FILM SHALL BE USED TO OVERLAP ADJOINING SECTIONS FILM A MINIMUM OF ONE (1) FOOT.
- VALVES SHALL BE WRAPPED BY BRINGING THE WRAP ON THE ADJACENT PIPE OVER THE BELLS OR FLANGES OF THE VALVE AND SEALING WITH THE ADHESIVE TAPE. THE VALVE BODIES ARE THEN WRAPPED WITH A FLAT SHEET OF THE FILM PASSED UNDER THE VALVE BOTTOM AND BROUGHT UP AROUND THE BODY TO THE STEM AND FASTENED IN PLACE WITH THE ADHESIVE TAPE.
- ALL FITTINGS THAT REQUIRE CONCRETE BLOCKING SHOULD BE COMPLETELY WRAPPED PRIOR TO THE POURING OF THE CONCRETE
- 4. POLYETHYLENE WRAP SHALL BE PROTECTED FROM THE SUN AND WEATHERING PRIOR TO USE. CARE SHALL BE EXERCISED DURING BACK FILLING OF THE PROTECTED AREAS TO PREVENT PUNCTURING
- 5. UNLESS OTHERWISE NOTED, ALL FITTINGS FOR PRESSURIZED WATER PIPING SHALL BE PROPERLY RESTRAINED BY THRUST BLOCKING AND MEGALUG, OR OTHER APPROVED METHODS.

ANCHOR NOTES:

- ALL ANCHORS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS. FOR BOTH MECHANICAL AND EPOXY TYPE ANCHORS THESE REQUIREMENTS INCLUDE, BUT IS NOT LIMITED TO:
 A. PROPER HOLE DIAMETER, DEPTH, EDGE DISTANCES, AND SPACING.
 B. PROPER HOLE PREPARATION AND CLEANOUT
 C. WEATHER REQUIREMENTS TO BE FOLLOWED, ESPECIALLY FOR COLD WEATHER APPLICATIONS.
 D. ALL STRUCTURAL ANCHORS TO COMPLY WITH THE CRACKED CONCRETE REQUIREMENTS ON THE CLIPBENT EDITION OF THE ACL 318.
- THE CURRENT EDITION OF THE ACI 318.
- 2. ANY EPOXY TYPE ANCHOR IS TO MEET THE CURRENT ANSI/NSF 61 REQUIREMENTS FOR DRINKING WATER SYSTEM COMPONENTS, WHERE APPLICABLE.

CONTRACTOR TO SUBMIT FOR REVIEW AND APPROVAL SEISMIC BRACKETS FOR HVAC, MECHANICAL AND ELECTRICAL EQUIPMENT TO MEET LOCAL CODES.

STRUCTURAL STEEL AND METAL FABRICATIONS:

- 1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS OF THE AISC" AND THE "AISC CODE OF STANDARD PRACTICE."

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
W-SHAPES
MISCELIANEOUS SHAPES INCLUDING
ANGLES, CHANNELS, PLATES, ETC.
SQUARE OR RECTANGULAR STEEL
TURNO STEEL DIPE
TURNO STEEL DIPE

A500, GRADE
A501, GRADE TUBING STEEL PIPE

A500, GRADE B CLASS 53, GRADE B

- 3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERRECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
- 4. ALL WELDS AND WELDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF "THE AMERICAN WELDING SOCIETY, USING ELECTRODES AS SPECIFIED THEREIN." WELDS TO BE MADE WITH E - 70XX ELECTRODES UNO
- BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:

UNLESS SHOWN OTHERWISE A325-N A325-SC SLIP CRITICAL ANCHOR BOLTS (AB) STAINLESS STEEL

F593, AISI TYPE 316, CONDITION CW F1554, GR 36 GALVANIZED STEEL F1554, GR 36/A153 MACHINE BOLTS (MB)

- 6. USE A307 BOLTS WITH PLATE WASHERS, UNLESS OTHERWISE SPECIFIED, FOR TYPICAL CONNECTIONS AND CONNECTIONS TO CONCRETE.
- 7. USE A325 BOLTS WITH PLATE WASHERS, UNLESS OTHERWISE SPECIFIED, FOR STEEL TO STEEL CONNECTIONS.
- 8. ITEMS TO EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
- 10. METAL FLASHING SHALL BE HOT DIP GALVANIZED, OR HAVE OTHER APPROVED EQUAL CORROSION RESISTANCE.
- 11. MATERIAL SHALL COMPLY WITH THE FOLLOWING STANDARDS UNO:

ASTM A-307 GRADE A TYPICAL BOLTS HIGH STRENGTH BOLTS

HIGH STRENGTH BOLTS
ANCHOR BOLTS
NUTS FOR ANCHOR BOLTS
STEEL TUBES
ANCHORS
HEADED STUD ANCHORS
ALL OTHER
STEEL SHAPES ASTM A-325
ASTM A-307 GRADE A
ASTM A-563 GRADE A
ASTM A-563 GRADE B
WITH YIELD STRENGTH EQUAL TO 46 KSI
ASTM A-553 GRADE B WITH YIELD STRENGTH EQUAL TO 46 KSI
ASTM A-53 GRADE B TYPE E OR S DEFORMED BAR
MANUFACTURED BY NELSON STUD CO OR EQUAL
ASTM A-108 MANUFACTURED BY NELSON STUD CO OR EQUAL
ASTM A-36 WITH YIELD STRENGTH EQUAL TO 36 KSI

SUBMITTALS:

- 1. THE FOLLOWING INFORMATION AND SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER BEFORE FABRICATION, IF APPLICABLE, AND/OR DELIVERY TO THE JOBSITE, NOT ALL MAY APPLY.
- CONCRETE MIX DESIGNS.
- CONCRETE REINFORCEMENT AND TENDON SHOP DRAWINGS
- STRUCTURAL BACKFILL PIT LOCATION AND MATERIAL SPECIFICATION, IF USED ON SITE
- D. USEU ON SITE.

 STRUCTURAL STEEL SHOP DRAWINGS.

 OTHER SHOP DRAWINGS & SUBMITTALS AS DEEMED NECESSARY BY THE CONSTRUCTION MANAGER.

 G. SPECIAL INSPECTION PER SHEET S-2.



ROOF: LIVE LOAD = SEE NOTE 6 UNDER DESIGN CRITERIA ON SHEET S-1

INTERNAL FLUID PRESSURE = 62.4 PCF FULL HEIGHT

BACKFILL E.F.P. AGAINST WALL = 35 PCF FULL HEIGHT, PLUS 56 PCF SEISMIC EFFECTS SEISMIC: (SEE GENERAL NOTE 5 ON SHEET S-1)

SOIL ALLOWABLE BEARING PRESSURE: (SEE GENERAL NOTE 10 ON SHEET S-1)

CONCRETE

- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI CODES AND REPORTS 318, 301, AND 350.
- ALL CONCRETE SHALL DEVELOP 5000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS MAX. W/C RATIO OF 0.41, CONCRETE SHALL CONTAIN 20% CLASS F FLY ASH.
- FLOOR AND ROOF CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION WITHOUT COLD JOINTS OR CONSTRUCTION JOINTS, UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS.
- 4. SEE DRAWINGS FOR SIZES AND LOCATIONS OF HOLES, SLEEVES, REGLETS, BOLTS, NOTCHES, DRIPS, EMBEDDED ITEMS, ETC. IN WALLS, ALL CONSTRUCTION JOINTS SHALL BE VERTICAL WITH WATERSTOPS. NO HORIZONTAL JOINTS ARE PERMITTED, EXCEPT AS SHOWN ON THE DRAWINGS.
- 5. ALL CONCRETE CORNERS EXPOSED TO VIEW SHALL HAVE 3/4" CHAMFER.

REINFORCEMENT

- 1. DETAILING, FABRICATION, AND PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 350 AND 315, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. STEEL REINFORCEMENT SHALL BE NEW, DEFORMED BILLET STEEL, MEETING ASTM STANDARD A 615. #4 BARS AND LARGER SHALL BE GRADE 60 STEEL; #3 BARS AND DESIGNATED REINFORCEMENT SHALL BE GRADE 40; SHOP DRAWINGS SHALL BE MARKED ACCORDINGLY, GRADE 60 DOWELS SHALL NOT BE BENT IN THE FIELD AFTER PLACING. REINFORCEMENT IN ALL WALLS AND SLABS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS PROVIDED BOTH VERTICAL AND HORIZONTAL OR AS DETAILED ON THE DRAWINGS.
- 2. LAP ALL TENSION SPLICES ACCORDING TO ACI 350, CLASS B, AND ALL COMPRESSION SPLICES 40 BAR DIAMETERS, EXCEPT AS NOTED OR SHOWN ON THE DRAWINGS. SEE DRAWINGS FOR TRIM BARS ON ALL SIDES OF OPENINGS AND PIPES.
- 3. PROVIDE CONCRETE COVER FOR REINFORCEMENT AS FOLLOWS: 2" FOR P.T. CONCRETE DEPOSITED AGAINST THE GROUND; 1-1/2" FOR BARS ELSEWHERE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 4. ALL CONCRETE REQUIRES REINFORCEMENT. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, THE "ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES" (ACI 350), SHALL BE REFERRED TO FOR PROPER REINFORCEMENT.
- 5. PROVIDE CORROSION PROTECTED ACCESSORIES FOR ALL CONCRETE SURFACES. TACK WELDING OF REINFORCING BARS IS NOT PERMITTED, UNLESS OTHERWISE CALLED FOR OR REVIEWED BY THE ENGINEER.

ECKED MEA, RCC

JULY 2025

JULY 2025 ISSUED FOR BID

REVISIONS

POST-TENSIONING:

- 1. ALL PRESTRESSING DESIGN, MATERIALS, AND CONSTRUCTION SHALL CONFORM TO ACI 350, 301, AND AWWA D115. POST—TENSIONING TENDONS SHALL BE 0.5 INCH OR 0.6 INCH (WHERE NOTED) DIAMETER 7-WIRE, LOW-RELAXATION STRAND, ASTM A 416. JACKING STRESS SHALL BE 0.8 FPU (33 KIPS PER STRAND FOR THE 1/2"Ø STRANDS & 46.8 KIPS PER STRAND FOR THE 0.6"Ø STRANDS UNLESS INDICATED ON INDIVIDUAL DRAWINGS AND DETAILS). BONDED TENDONS IN CORRUGATED PLASTIC DUCTS SHALL BE USED HORIZONTALLY IN THE WALLS.
- 2. ADDITIONAL HORIZONTAL WALL TENDON NOTES: STRANDS TO HAVE A 4' STRESSING TAIL AT BOTH ENDS OF TENDONS. JACK TENDONS AT EACH END (NOT SIMULTANEOUSLY) TO A FORCE OF 216 KSI UNLESS INDICATED ON INDIVIDUAL DRAWINGS AND DETAILS. SEAT WEDGES OF CIRCUMFERENTIAL TENDONS WITH A 1/4" OR LESS ANCHOR SET.
- 3. UNBONDED TENDONS IN THE FLOOR AND VERTICALLY IN THE WALL SHALL BE FULLY ENCAPSULATED IN SLIPPAGE SHEATHING WHICH SHALL CONSIST OF A DURABLE, WATERPROOF POLYETHYLENE PLASTIC TUBING 50 MILS THICK AND CAPABLE OF PREVENTING THE PENETRATION OF CEMENT PASTE AND WHICH WILL CONTAIN A RUST—INHIBITING GREASE COATING. PUNCTURED SHEATHING SHALL BE REPAIRED IN A WATERPROOF MANNER ACCEPTABLE TO THE ENGINEER, OR REPLACED, IF IN THE ENGINEER'S JUDGMENT ADEQUATE REPAIRS CANNOT BE MADE.
- 4. FLOOR AND ROOF TENDON NOTES: DEAD END ANCHORAGES TO BE SEATED AT A FORCE OF 33 KIPS UNLESS INDICATED ON INDIVIDUAL DRAWINGS AND DETAILS. LEAVE A 2' STRESSING TAIL AT EACH LIVE END. AFTER CONCRETE HAS REACHED 1500PSI F'CI, JACK EACH STRAND TO 16 KIPS AT ONE END, THEN AFTER CONCRETE HAS REACHED 3750 PSI JACK EACH STRAND TO 33 KIPS UNLESS INDICATED ON INDIVIDUAL DRAWINGS AD DETAILS AND SEAT WEDGES WITH A 1/4" ANCHOR SET. TRIM STRAND AT APPROXIMATELY 1" FROM JAW, TAKING CARE NOT TO HEAT JAW AS STRAND IS CUT.
- 5. CARE SHALL BE TAKEN THAT TENDONS ARE LOCATED AND HELD IN THEIR DESIGNATED POSITIONS. TOLERANCES FOR LOCATION OF PRESTRESSING STEEL IN THE FLOOR, WALL, OR ROOF THICKNESS SHALL NOT BE MORE THAN 1/8 INCH, EXCEPT AS NOTED OR REVIEWED BY THE STRUCTURAL ENGINEER. TOLERANCES IN CIRCUMFERENTIAL OR PLAN DIMENSIONS, PER NORMAL ACI STANDARDS.
- 6. TENSIONING SHALL NOT START UNTIL TESTS, FIELD CURED CYLINDERS AND MATURITY METERS, INDICATE THE CONCRETE IN PLACE HAS REACHED THE SPECIFIED INITIAL COMPRESSIVE STRENGTH. TENSIONING SHALL BE DONE BY
 JACKING UNDER IMMEDIATE CONTROL OF A PERSON EXPERIENCED IN THIS TYPE OF WORK. RECORDS SHALL BE KEPT OF ELONGATION AND TENSION OF THE STRAND AND REVIEWED BY THE ENGINEER PRIOR TO REMOVING
 STRESSING TAILS. THE OBSERVED ELONGATION SHALL BE WITHIN 7% OF THAT PREDICTED. ALL TENDON ANCHORAGES SHALL BE RECESSED AS SHOWN ON THE DRAWINGS. STRESSING BLOCKOUTS SHALL HAVE A BONDING AGENT
 AND SHALL BE FILLED WITH NONSHRINK GROUT AFTER PRESTRESSING.
- 7. POST-TENSIONED WORK SHALL CONFORM TO: ACI318 AND ACI350 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", PTI, SPECIFICATIONS FOR UNBONDED SINGLE STRAND TENDONS, LATEST EDITION
- 8. RECORDS OF ALL JACKING FORCES AND ELONGATIONS SHALL BE KEPT BY A CERTIFIED PRESTRESS INSPECTOR AND SHALL PROMPTLY BE SUBMITTED TO THE STRUCTURAL ENGINEER. FIELD READINGS OF ELONGATIONS AND STRESSING FORCES SHALL NOT VARY MORE THEN 5% FROM CALCULATED THEORETICAL VALUES. CONTRACTOR SHALL SUBMIT WITH ALL STRESSING RECORDS AND ONGOING LOG OF DATA SUBMITTALS. THIS LOG SHOULD ALSO PROVIDE A PLACE FOR COMMENTS AND THE STRUCTURAL ENGINEERS SIGNATURE TO AUTHORIZE CUTTING CABLES AFTER DATA IS REVIEWED AND APPROVED. STRUCTURAL ENGINEER WILL RETURN THE LOG TO CONTRACTOR AFTER EACH SUBMITTAL IS REVIEWED.

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- 9. CORING OF SLABS AND USE OF DRILLED MECHANICAL ANCHORS IS NOT PERMITTED WITHOUT WRITTEN CONSENT AND APPROVAL FROM STRUCTURAL ENGINEER. IF APPROVED, COORDINATE ANCHOR LOCATIONS SO THAT NO CONTACT IS MADE WITH POST—TENSIONING TENDONS. SHOW ALL OPENINGS AND SLEEVES ON THE SHOP DRAWINGS. ADDITIONAL OPENINGS NOT SHOWN REQUIRE APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.
- 10. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. SUBMIT PLANS, ELEVATIONS, SECTIONS, AND DETAILS LOCATING AND DEFINING ALL MATERIAL FURNISHED BY THE SUPPLIER, PLACEMENT SEQUENCES AND HANDLING REQUIREMENTS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE APPROVED.
- 11. POST-TENSIONING SHOP DRAWINGS (INSTALLATION DRAWINGS) SHALL PROVIDE FULL DETAILS OF MATERIALS TO BE USED INCLUDING NECESSARY ACCESSORIES AND INSTRUCTIONS FOR CONSTRUCTION AND SHALL IDENTIFY THE SPECIFIC PROJECT AND BEAR AN IMPRESSED SEAL, SIGNATURE, AND DATE OF THE SPECIALTY ENGINEER WHO PREPARED THEM.
- 12. AS SOON AS STRESSING RECORDS ARE REVIEWED AND APPROVED CUT END OF TENDONS AND COAT EXPOSED PORTION OF THE TENDON AND THE GRIPPING PART OF ANCHORAGE WITH EPOXY-RESIN COMPOUND BEFORE DRY PACKING WITH NON-SHRINK GROUT.
- 13. THE PLANT PRODUCING UNBONDED SINGLE STRAND TENDONS SHALL BE A CERTIFIED PLANT UNDER THE POST—TENSION INSTITUTE (PTI) CERTIFICATION PROGRAM.
- 14.USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
- 15.DO NOT CUT THE END OF TENDONS UNTIL STRESSING RECORDS ARE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

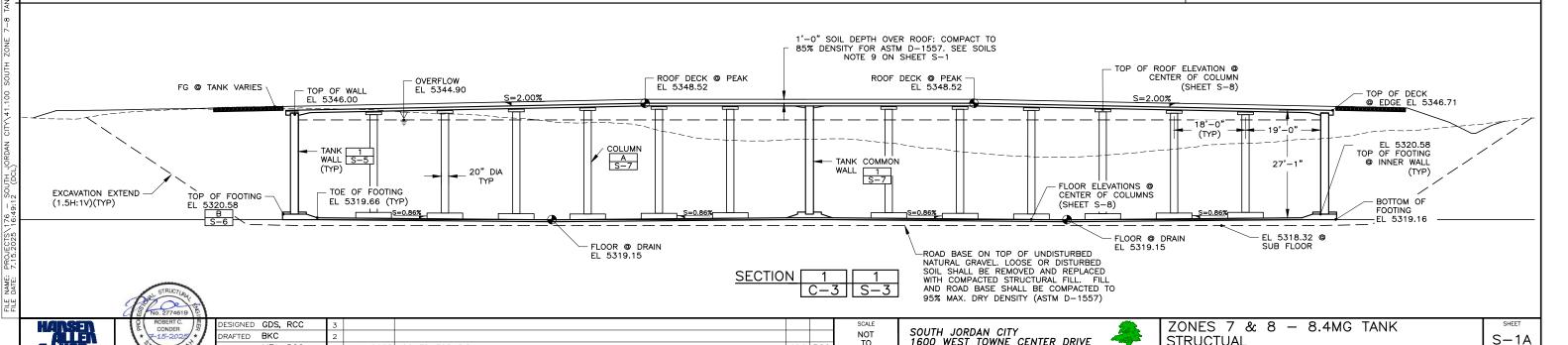
POST TENSION TANK STRUCTURAL NOTES:

- 16.IN CASE OF BROKEN TENDONS OR BLOW-OUTS, SUBMIT FOR APPROVAL DETAILED CALCULATIONS AND PROCEDURES FOR THE REMEDIAL WORK REQUIRED.
- 17. SUBMIT DETAILED PRESTRESSING PROCEDURES AND SEQUENCES, PRESTRESSING LOSS CALCULATIONS, STATIC AND DYNAMIC TEST DATA.
- 18. CONTRACTOR SHALL DESIGN AND FURNISH POST-TENSIONED MEMBERS NOT SHOWN ON THE CONTRACT DOCUMENTS INCLUDING REINFORCEMENT STEEL, TENDON SUPPORT REINFORCING AND ANCHOR ZONE REINFORCING.
- 19. POST-TENSIONING FORCES SPECIFIED ON THE DRAWINGS ARE REQUIRED EFFECTIVE FORCES AFTER ALL LOSSES ARE ACCOUNTED FOR: SHORT TERM, LONG TERM & SEATING LOSSES. CALCULATIONS SUBMITTED SHALL INDICATE THE VALUES OF ALL LOSSES APPROPRIATE TO THIS PROJECT FOR THE MATERIALS PROPOSED. MAXIMUM EFFECTIVE FORCE PER CABLE SHALL BE 26.7k

FOUNDATION PLAN NOTES

- 1. FLOOR TENDONS SHALL BE FULLY ENCAPSULATED, ½"ø, UNBONDED MONOSTRAND TENDONS.
- 2. TIE ONE CONT. #5 SUPPORT BAR WITH EACH FLOOR TENDON
- 3. USE NEAREST STANDARD 90°, 60°, & 45° POCKET FORMERS OR VARIABLE ANGLE BLOCKOUTS TO KEEP TENDON ALIGNMENT AS STRAIGHT AS POSSIBLE AT STRESSING ENDS (TYP).
- 4. DEFLECT TENDONS AT ENDS, IF REQUIRED, TO AVOID OVERLAPPING ANCHORAGES.
- 5. COMBINE ORTHOGONAL POST TENSION TENDONS & REINFORCING BARS IN GROUPS @ INDICATED SPACING.
- 6. USE 3"X3"X2" HIGH, 4000 PSI CONC. BLOCKS (DOBIES), TO SUPPORT THE FLOOR SLAB REINFORCEMENT. THE LOWER LAYER OF POST—TENSIONING AND BARS SHALL BE DIRECTLY SUPPORTED AT EVERY CROSSING WITH THE PERPENDICULAR BARS AND STRANDS.
- 7. CIRCUMFERENTIAL AND ORTHOGONAL TENDONS GREATER THAN 100'-0" IN LENGTH SHALL BE TWO-END STRESSED.
- 3. SEE CIVIL DRAWINGS FOR PIPE LOCATIONS & DETAILS, & FLOOR SLAB FI FV.
- 9. BOTH FIELD CURED CYLINDERS AND MATURITY METERS ARE REQUIRED FOR FLOOR CONCRETE TO DETERMINE IN—SITU STRENGTH PRIOR TO POST—TENSIONING.

TANK SECTION & STRUCTURAL NOTES



GDS RCC

GENERAL SPECIAL INSPECTIONS

SCHEDULE OF SPECIAL INSPECTIONS									
APPLICABLE TO THIS PROJECT									
MATERIAL/ACTIVITY	TYPE OF INSPECTION	C/P *	EXTENT/REFERENCE	INSP INITIALS	INSP DATE				
GENERAL									
Pre-construction conference	Meeting with Owner, Contractor and Registered Design Professional to discuss Special Inspection procedures	Р	Scheduled by DCRA with the Contractor prior to commencement of work						
EARTHWORK									
Site preparation (building)	Field testing and inspection	Р	Field Review; IBC 1705.6						
Fill material (building)	Review submittals, field testing and inspection	Р	Field Review; IBC 1705.6						
Fill compaction (building)	In-place density tests, lift thickness	С	Field Review; IBC 1705.6						
Excavation	Field inspection and verification of proper depth	Р	Field Review; IBC 1705.6						
Foundation sub-grade	Field inspection of foundation subgrade prior to placement of concrete	Р	Field Review; IBC 1705.6						
CONCRETE									
Materials	Review product supplied versus certificates of compliance and mix design	Р	Submittal & Field Review; IBC 1705.3; ACI 318: Ch. 4 and 5; IBC 1904.2, 1910.2, 1903.3						
Installation of reinforcing steel, including Pre-stressed tendons and anchor bolts as well as welding	Field inspection of placement	Р	Submittal and Field Review; ACI 318:3.5, 3.5.2 3.8.6 & Ch. 7 8.1.3 and 21.2.8; AWS D1.4; IBC 1705.3, 1908.5, 1909.1, 1910.4						
Formwork installation	Field inspection	Р	Field Review; ACI 318: 6.1.1; IBC 1705.3						
Concreting operations and placement	Field inspection of placement/sampling	С	Field Review; ACI 318: 5.6, 5.8, 5.9-10; ASTM C 172, C 31; IBC 1705.3, 1910.6, 1910.7, 1910.8, 1910.10						
Concrete curing	Field inspection of curing process	Р	Field Review; ACI 318: 5.11-13; IBC 1705.3, 1910.9						
Concrete strength	Evaluation of concrete strength		Laboratory Testing; ACI 318: 6.2; IBC 1705.3						

P = PERIODIC INSPECTION C = CONTINUOUS INSPECTION

SCHEDULE OF SPECIAL INSPECTIONS APPLICABLE TO THIS PROJECT							
MATERIAL/ACTIVITY	TYPE OF INSPECTION	C/P *	EXTENT/REFERENCE	INSP INITIALS	INSP DATE		
PRECAST CONCRETE							
Verify fabrication/QC procedures In-plant	Inspection of plant and QC procedures**		Submittal or Field Review; IBC 1705.3				
Erection and installation	Review submittals and as-built assemblies; Field inspection of in-place precast		Submittal and Field Review; ACI 318; Ch. 16; IBC Table 1705.3				
STRUCTURAL STEEL							
Verify fabrication/QC procedures	In-plant inspection of fabrication/quality control procedures or submit Certificate of Compliance	Р	IBC 1704.2.5, IBC 1704.2.5.1, 1704.2.5.2, 1705.2				
Bolts, nuts, and washers – materials	Material identification markings Review of Certificate of Compliance	Р	Submittal & Field Review; IBC 1705.2.1; IBC 1705.2.2; IBC 1706; ASTM; AISC 360, Section A3.3	,			
Bolts, nuts, washers – installation	Inspection of insitu high-strength bolts, snug-tight joints, pre-tensioned and bearing type, and slip connections	С	Submittal & Field Review; IBC 1705.2.1, 1705.2.2;, AISC 360 Section M2.5				
Structural steel – materials	Material identification markings and review of Certificate of Compliance	Р	Submittal & Field Review; IBC 1705.2.1, 1705.2.2, 1706; ASTM A6, A568				
Structural steel details – installation	Inspection of member locations, structural details for bracing, connections, stiffening	Р	Submittal & Field Review; IBC 1705.2.1, 1705.2.2, AISC 360				
Weld filler materials and welder certs	Review of identification markings, certificate of compliance, and welder certifications	Р	Submittal & Field Review; ASTM AISC 360 A3.5				
Welds	Inspection and testing of welds	С	Field Review; IBC 1705.2.2.1; AWS D1.1, D1.3				
Cold-formed metal deck – materials	Review of identification marking manufacturer's certified test results	Р	Submittal and Field Review; IBC 1705.2.2; ASTM				
Cold-formed metal deck – installation	Review laps and welds	Р	Submittal and Field Review; IBC 1705.2.2, AWS D1.3				
Cold-formed light frame construction – welds	Review welding operation	Р	IBC 1705.10, 1705.10.2, 1705.10.3				
Cold form light frame construction wind resistance – screws	Review screw attachment bolting, anchoring hold downs, bracing, diaphragms, struts	Р	Field Review; IBC 1705.10, 1705.10.2, 1705.10.3				
Cold-formed steel trusses spanning 60' or greater	Inspection of temporary and permanent restraints/bracing	С	Field review IBC 1705.2.2.2				

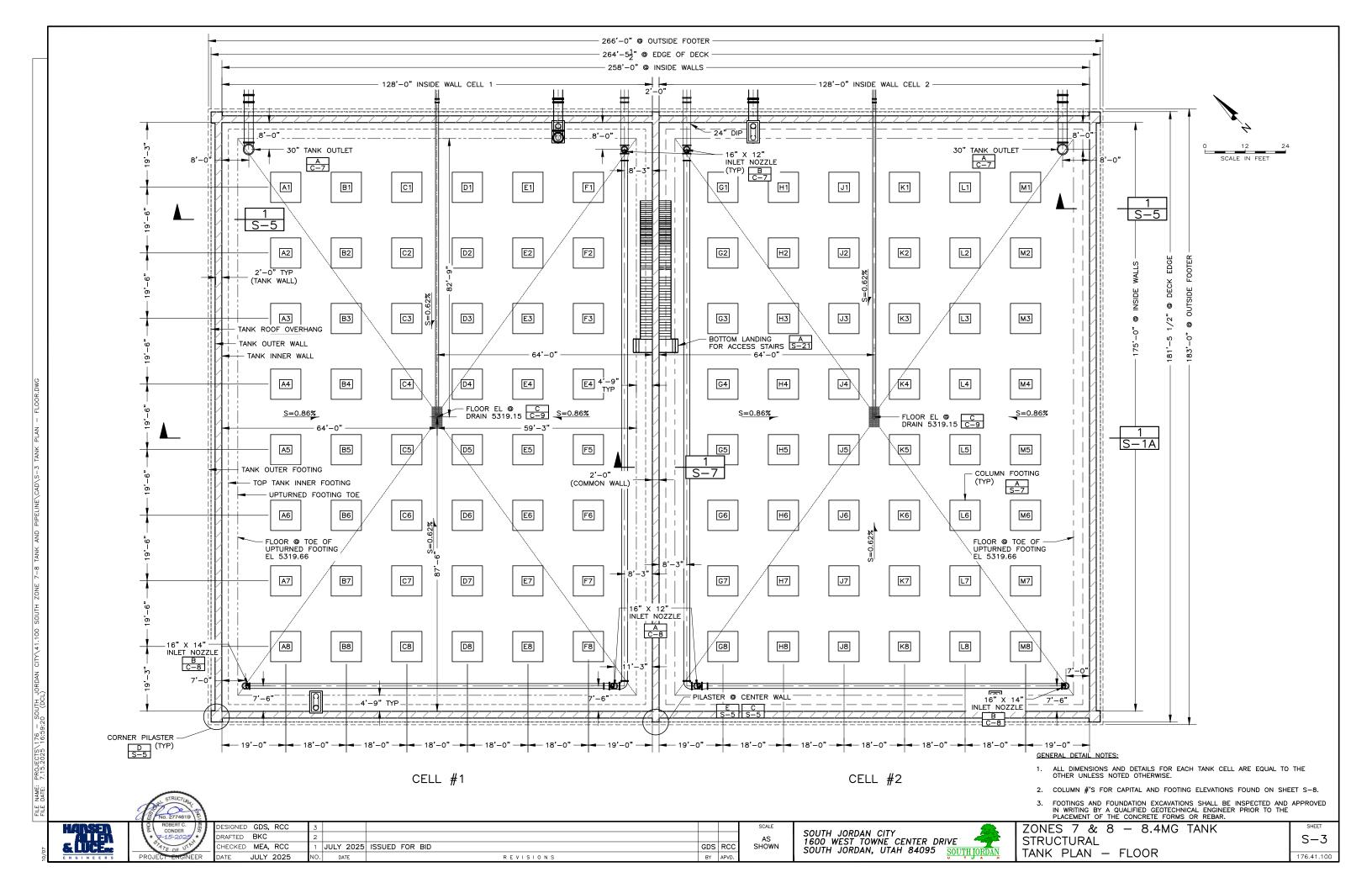
GENERAL SHEET NOTES:

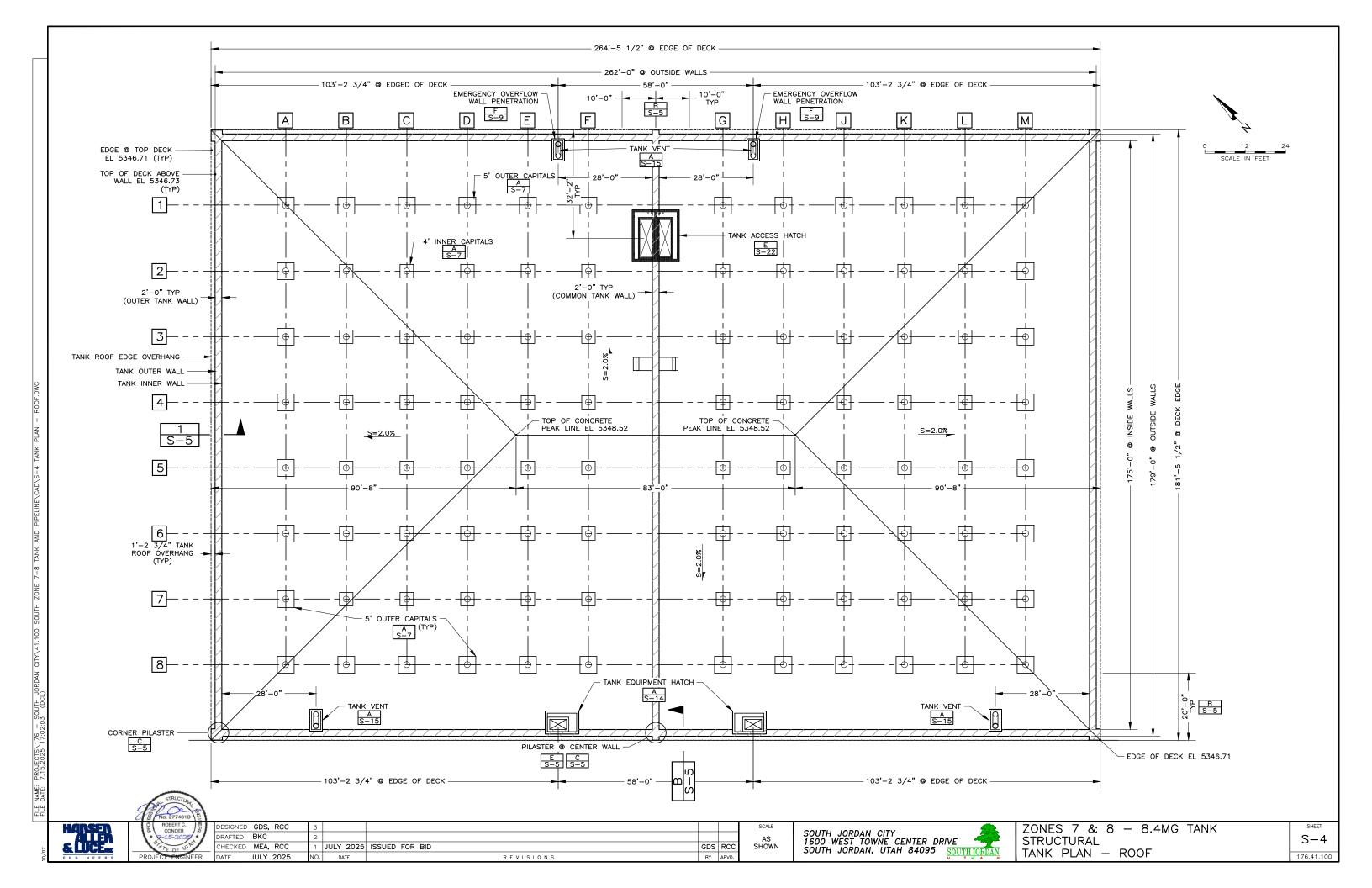
- THE SPECIAL INSPECTOR IS RESPONSIBLE FOR ENSURING THE PUBLICATIONS USED FOR INSPECTION CRITERIA ARE THE MOST CURRENT AND UP TO DATE.
- 2. FAILURE OF INSPECTABLE AREAS ARE TO BE NOTED AND SUBMITTED TO OWNER, ENGINEER OF RECORD, AND CONTRACTOR IF CORRECTIONS REQUIRE A FOLLOW UP INSPECTION AND CANNOT BE MADE COMPLETED "ON THE
- 3. DOCUMENTATION FOR INSPECTIONS MUST BE COMPLETED AND SUBMITTED IN ACCORDANCE WITH CONTRACT REQUIREMENTS, INTERNATIONAL BUILDING CODE (LATEST EDITION), AND MANUAL FOR SPECIAL INSPECTIONS" (LATEST EDITION), OR AS AGREED UPON WITH OWNER, ENGINEER OF RECORD, AND CONTRACTOR.
- 4. SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQUIRED INSPECTIONS BY THE BUILDING OFFICIAL. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING INSPECTIONS WITH THE BUILDING DEPARTMENT AND COORDINATING SPECIAL INSPECTIONS WITH OWNER.
- 5. SPECIFIED CONCRETE AND MASONRY TESTING DURING CONSTRUCTION WILL BE CONTRACTOR FURNISHED. SPECIFIED LAB TEST, MIXES, AND SIMILAR TESTING TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO THE SPECIFICATIONS, REQUIRING SUBMITTAL FOR REVIEW AND ACCEPTANCE, SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- 6. STRUCTURAL OBSERVATIONS (PROVIDED BY ENGINEER) IS REQUIRED IN ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTION. CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO ENGINEER PRIOR TO PLACING CONCRETE OR COVERING UP ANY WORK.

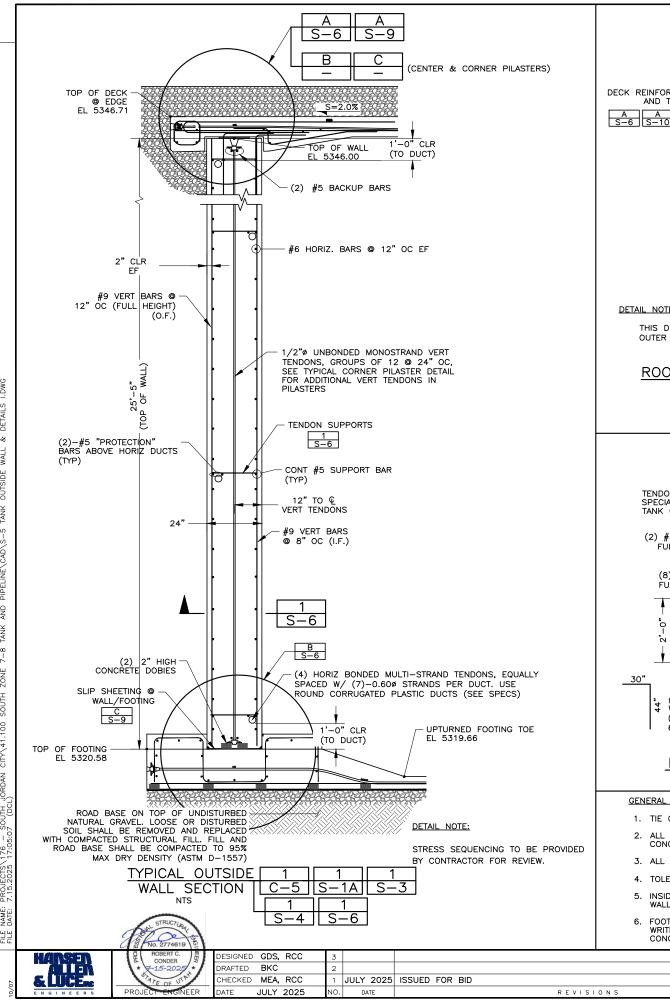


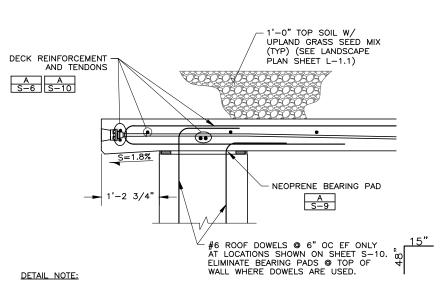


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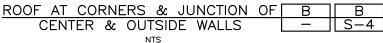


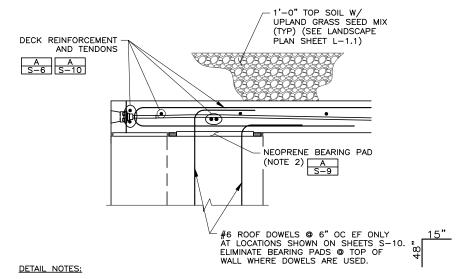




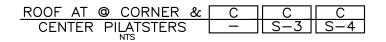


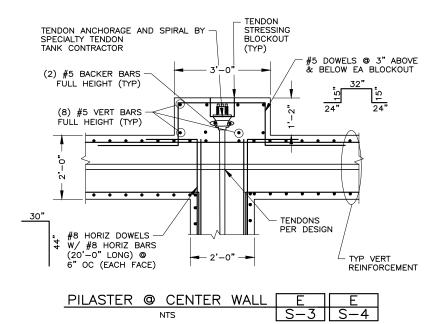
THIS DETAIL APPLIES WITHIN 20'-0" OF EACH CORNER & ON OUTER WALL 10' EACH SIDE OF JUCTION WITH CENTER WALL.





- THIS DETAIL APPLIES AT EACH CORNER & CENTER WALL PILASTERS.
- NO BEARING PAD THIS AREA FOR CENTER WALL/OUTSIDE WALL JUNCTION WHERE DOWELS ARE USED.





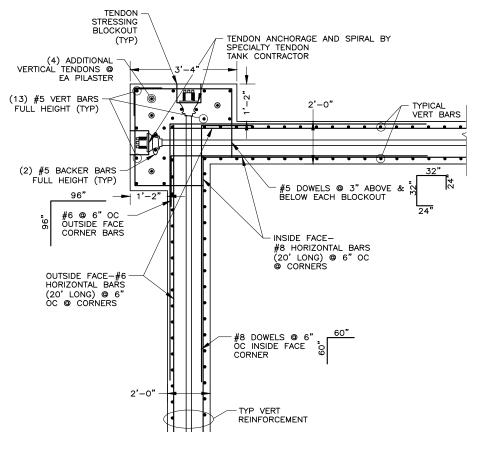
GENERAL SHEET NOTES:

- 1. TIE OFF ALL WATERSTOP 12" OC, EW, TOP & BOTTOM.
- 2. ALL REINFORCING MUST BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
- 3. ALL ROOF REINFORCING AND DOWELS IN ROOF TO BE EPOXY COATED.
- 4. TOLERANCE FOR THE ELEVATION OF THE PREPARED SUBGRADE SHALL BE 0"-1".
- 5. INSIDE AND OUTSIDE FACE CURBS SHALL NOT BE PLACED UNTIL 21 DAYS AFTER WALL POST—TENSIONING IS COMPLETE.
- 6. FOOTING AND FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED IN WRITING BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE FORMS OR REBAR

GDS RCC

NOT TO

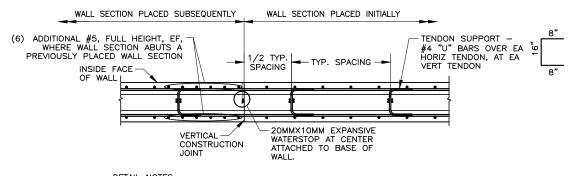
SCALE



TYP CORNER PILASTER D D D

NTS S-3 S-4 S-13

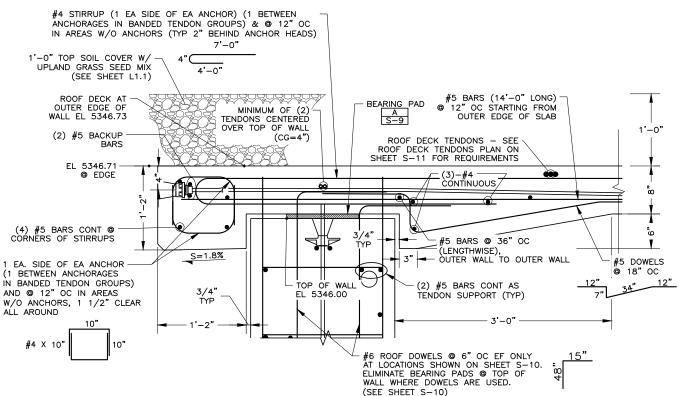
SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN ZONES 7 & 8 — 8.4MG TANK STRUCTURAL TANK OUTSIDE WALL & DETAILS SHEET
S-5
176.41.100



DETAIL NOTES:

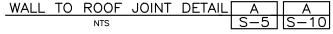
- 1. CONST. JOINTS TO BE LOCATED IN THE MIDDLE OF A VERTICAL
- 2. ALL HORIZONTAL BARS AND TENDONS ARE TO BE CONTINUOUS THROUGH VERTICAL CONSTRUCTION JOINTS.

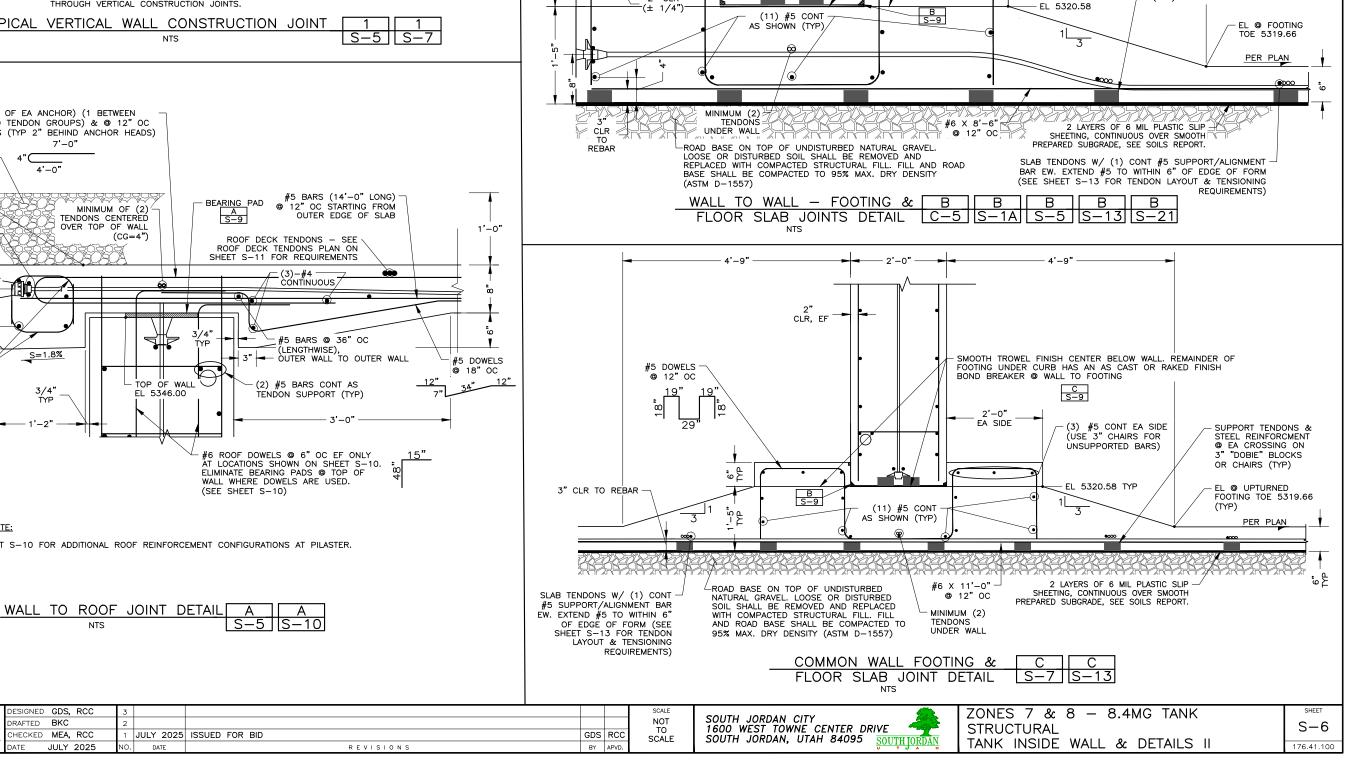
TYPICAL VERTICAL WALL CONSTRUCTION JOINT



DETAIL NOTE:

SEE SHEET S-10 FOR ADDITIONAL ROOF REINFORCEMENT CONFIGURATIONS AT PILASTER.





2'-0"

(2) #5 BARS CONT AS TENDON SUPPORT (TYP)

2 1/2"

CĹR TYP

TYPICAL WALL

EA SIDE

S=1.0% TYP

2" CLR

CĹR

REINFORCEMENT

2" CLR, EF

SMOOTH TROWEL FINISH CENTER BELOW WALL. REMAINDER OF FOOTING UNDER CURB HAS AN AS CAST OR RAKED FINISH BOND BREAKER @ WALL TO FOOTING

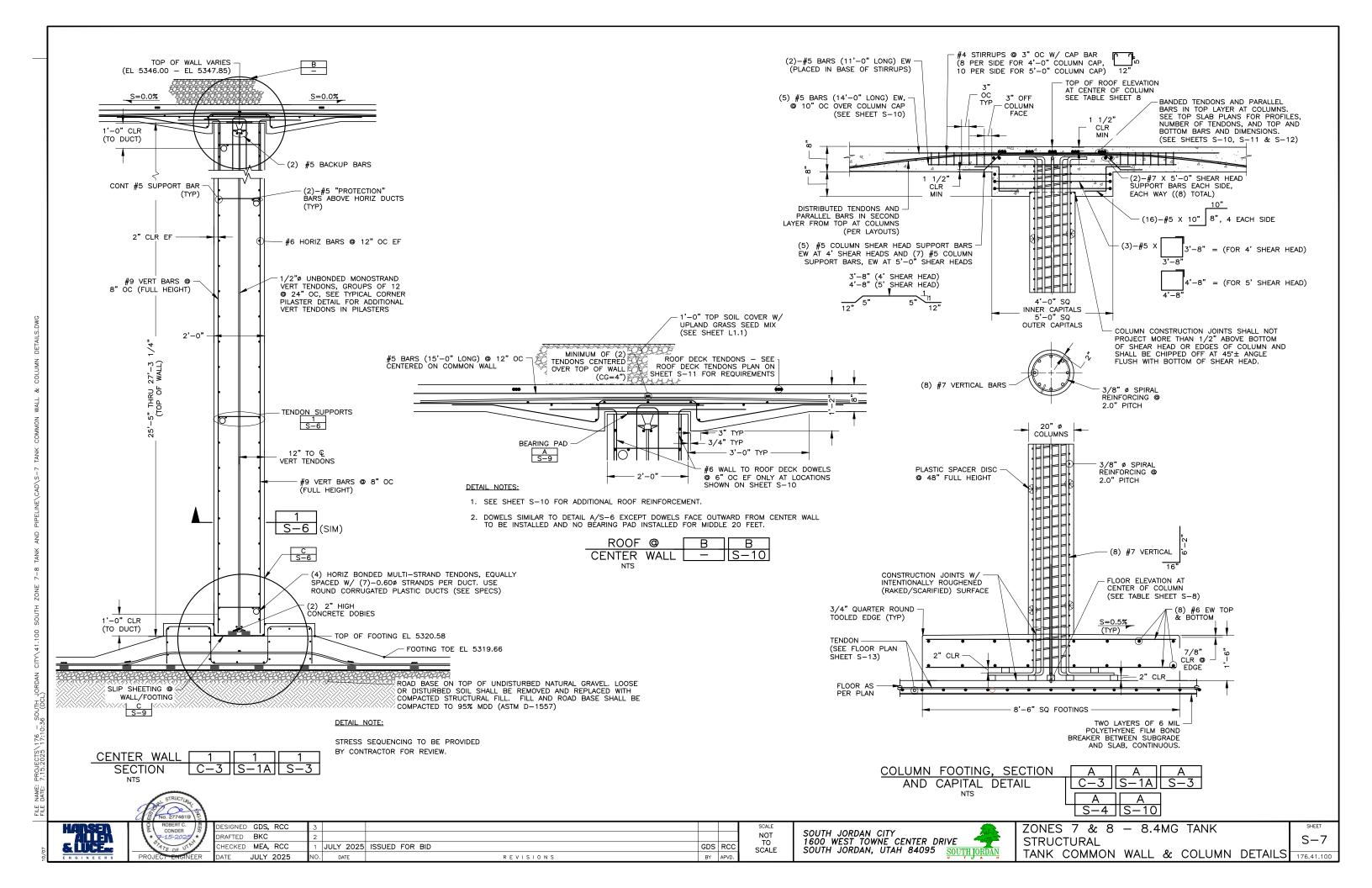
INSIDE FACE CURB

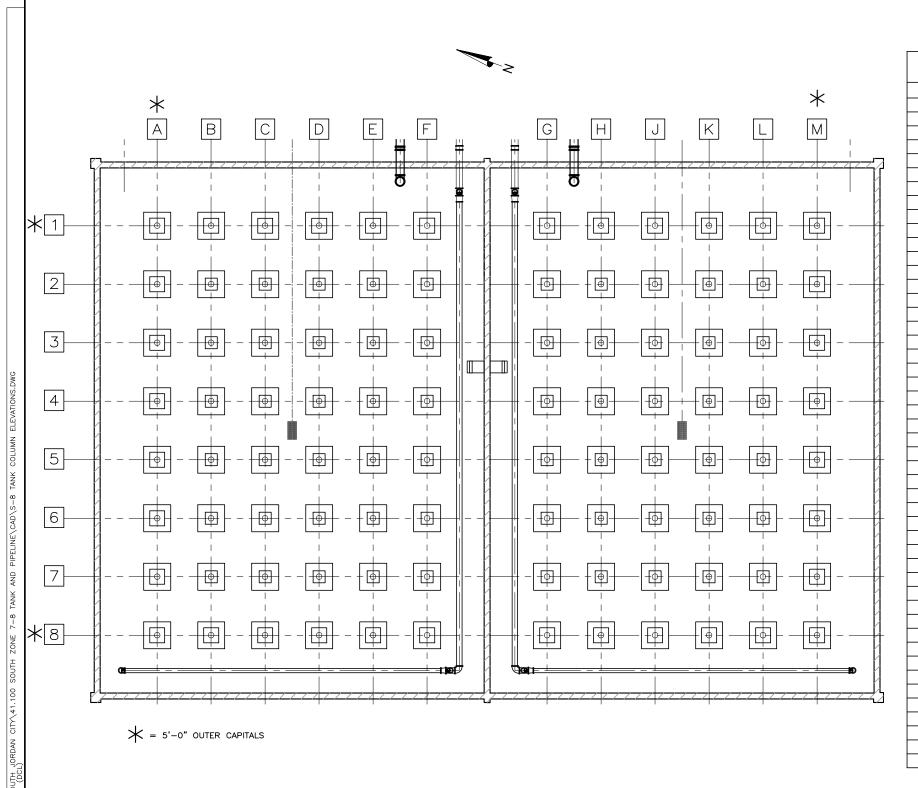
SUPPORT TENDONS & STEEL
REINFORCMENT @ EA CROSSING ON
3" "DOBIE" BLOCKS OR CHAIRS

(TYP)

(3) #5 CONT EA. SIDE (USE 3" CHAIRS FOR UNSUPPORTED BARS)

#5 DOWELS *∞





ROOF	AND FLOOR EL COLUMN	EVATION AT
COLUMN ID	FLOOR ELEVATION	ROOF ELEVATION
A-1	5319.57	5347.15
A-2	5319.54	5347.15
A-3	5319.54	5347.15
A-4	5319.54	5347.15
A-5	5319.54	5347.15
A-6	5319.54	5347.15
A-7	5319.54	5347.15
A-8	5319.57	5347.15
B-1	5319.57	5347.16
B-2	5319.45	5347.51
B-3	5319.38	5347.51
B-4	5319.38	5347.51
B-5	5319.38	5347.51
B-6	5319.38	5347.51
	5319.45	5347.51
B-7	5319.57	5347.16
B-8 C-1	5319.57	5347.16
C-2	5319.45	5347.55
C-2	5319.33	5347.87
	5319.23	
C-4		5347.87
C-5	5319.23	5347.87
C-6	5319.33	5347.87
C-7	5319.45	5347.55
C-8	5319.57	5347.16
D-1	5319.57	5347.16
D-2	5319.45	5347.55
D-3	5319.33	5347.94
D-4	5319.23	5348.23
D-5	5319.23	5348.23
D-6	5319.33	5347.94
D-7	5319.45	5347.55
D-8	5319.57	5347.16
E-1	5319.57	5347.16
E-2	5319.45	5347.55
E-3	5319.38	5347.94
E-4	5319.38	5348.33
E-5	5319.38	5348.33
E-6	5319.38	5347.94
E-7	5319.45	5347.55
E-8	5319.57	5347.16
F-1	5319.57	5347.16
F-2	5319.54	5347.55
F-3	5319.54	5347.94
F-4	5319.54	5348.33
F-5	5319.54	5348.33
F-6	5319.54	5347.94
F-7	5319.54	5347.55
F-8	5319.57	5347.16

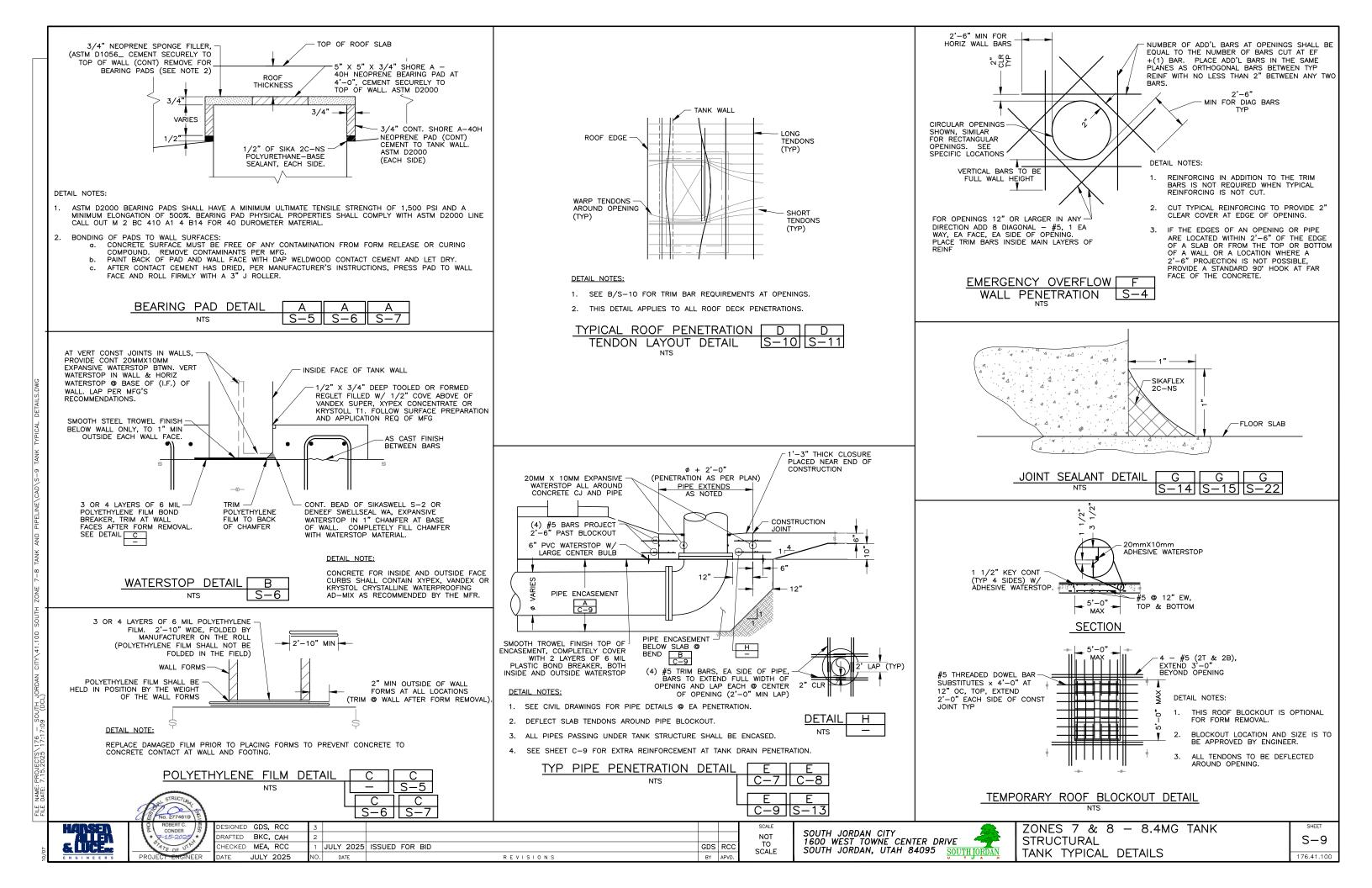
ROOF	AND FLOOR EL COLUMN	EVATION AT
COLUMN ID	FLOOR ELEVATION	ROOF ELEVATION
G-1	5319.57	5347.16
G-2	5319.54	5347.55
G-3	5319.54	5347.94
G-4	5319.54	5348.33
G-5	5319.54	5348.33
G-6	5319.54	5347.94
G-7	5319.54	5347.55
G-8	5319.57	5347.16
H-1	5319.57	5347.16
H-2	5319.45	5347.55
H-3	5319.38	5347.94
H-4	5319.38	5348.33
H-5	5319.38	5348.33
H-6	5319.38	5347.94
H-7	5319.45	5347.55
H-8	5319.57	5347.16
J-1	5319.57	5347.16
J-2	5319.45	5347.55
J-3	5319.33	5347.94
J-4	5319.23	5348.23
J-5	5319.23	5348.23
J-6	5319.33	5347.94
J-7	5319.45	5347.55
J-8	5319.57	5347.16
K-1	5319.57	5347.16
K-2	5319.45	5347.55
K-3	5319.33	5347.87
K-4	5319.23	5347.87
K-5	5319.23	5347.87
K-6	5319.33	5347.87
K-7	5319.45	5347.55
K-8	5319.57	5347.16
L-1	5319.57	5347.16
L-2	5319.45	5347.51
L-3	5319.38	5347.51
L-4	5319.38	5347.51
L-5	5319.38	5347.51
L-6	5319.38	5347.51
L-7	5319.45	5347.51
L-8	5319.57	5347.16
M-1	5319.57	5347.15
M-2	5319.54	5347.15
M-3	5319.54	5347.15
M-4	5319.54	5347.15
M-5	5319.54	5347.15
M-6	5319.54	5347.15
M-7	5319.54	5347.15
M-8	5319.57	5347.15

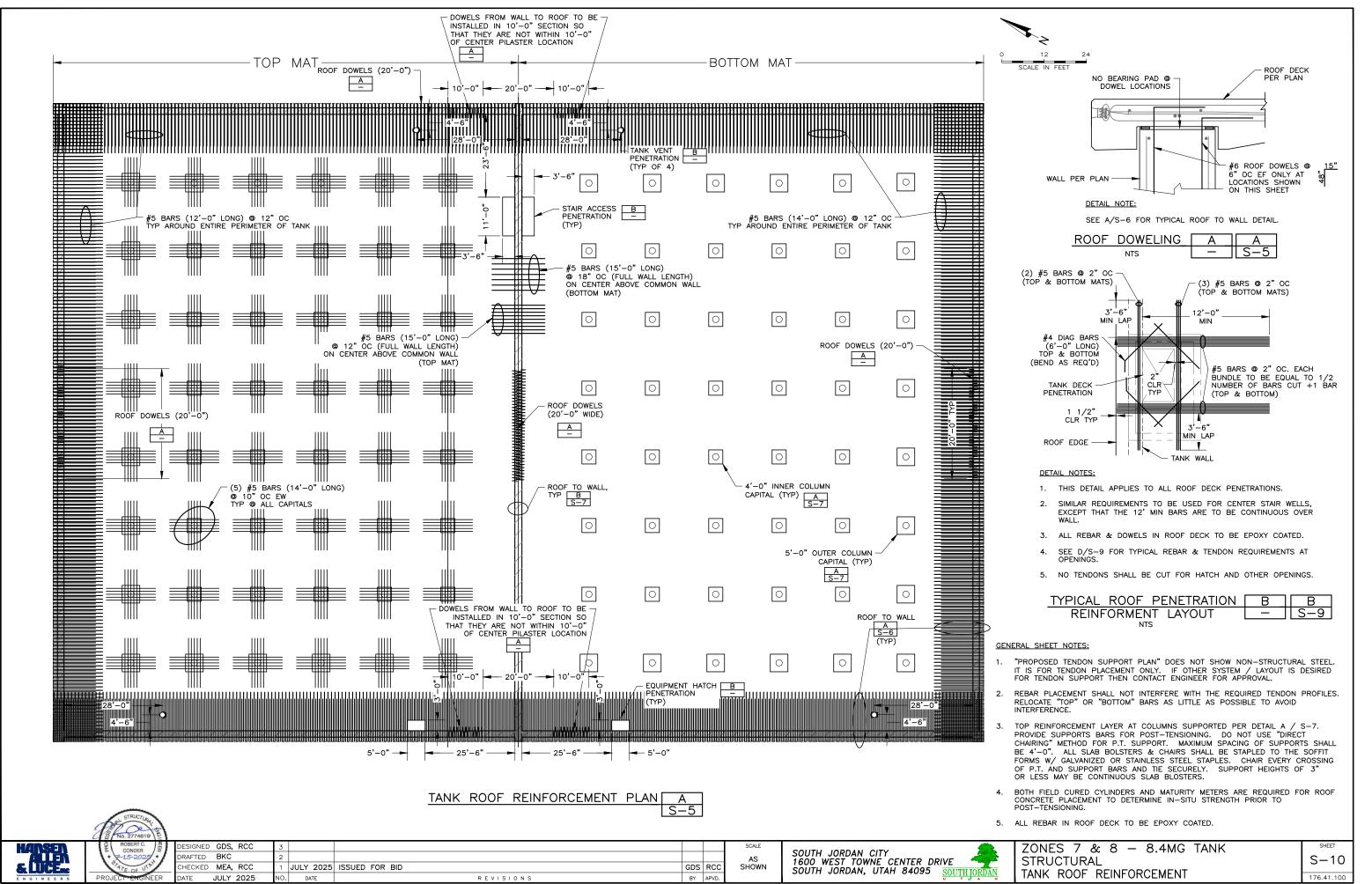


 DESIGNED
 GDS, RCC
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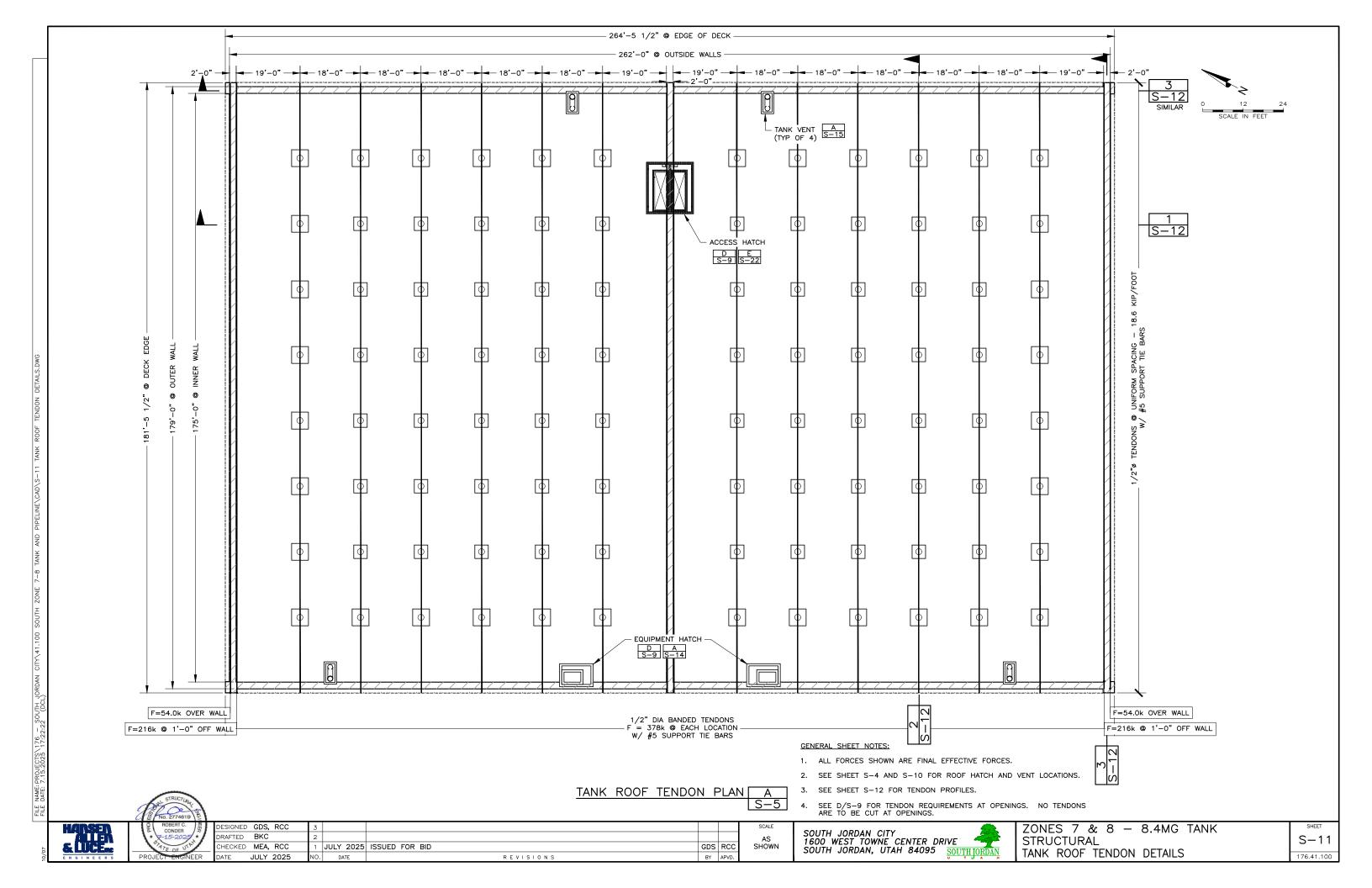
SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

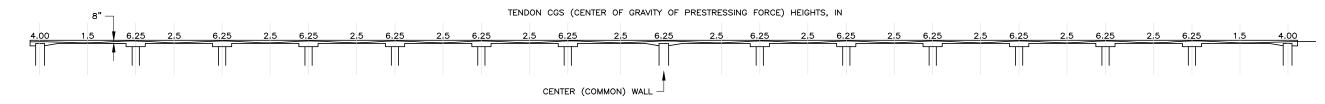
ZONES 7 & 8 — 8.4MG TANK STRUCTURAL TANK COLUMN ELEVATIONS SHEET
S-8
176.41.100



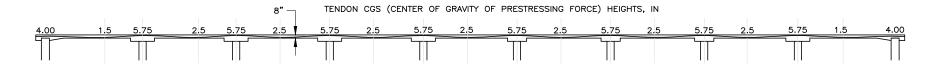


10/07

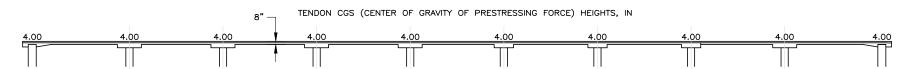




TANK LENGTH TENDON PROFILE AT COLUMN & BETWEEN COLUMN (UNIFORM SPACING) 1

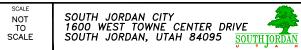


TANK WIDTH TENDON PROFILE AT COLUMN (BANDED)



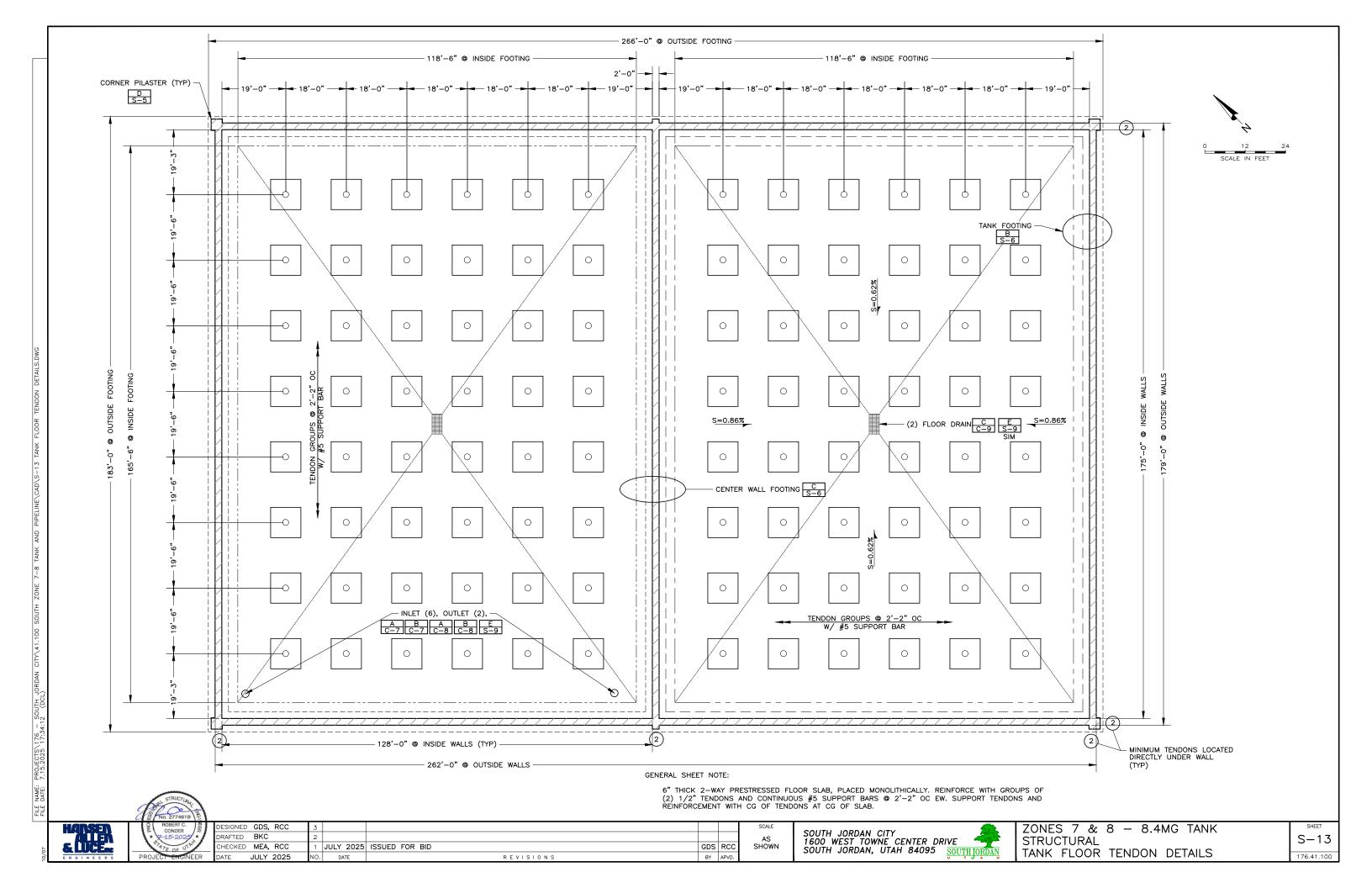
TYPICAL TANK TENDON PROFILE AT EDGE (BANDED-OVER WALL LINE) (APPLIES IN LONG DIRECTION ALSO)

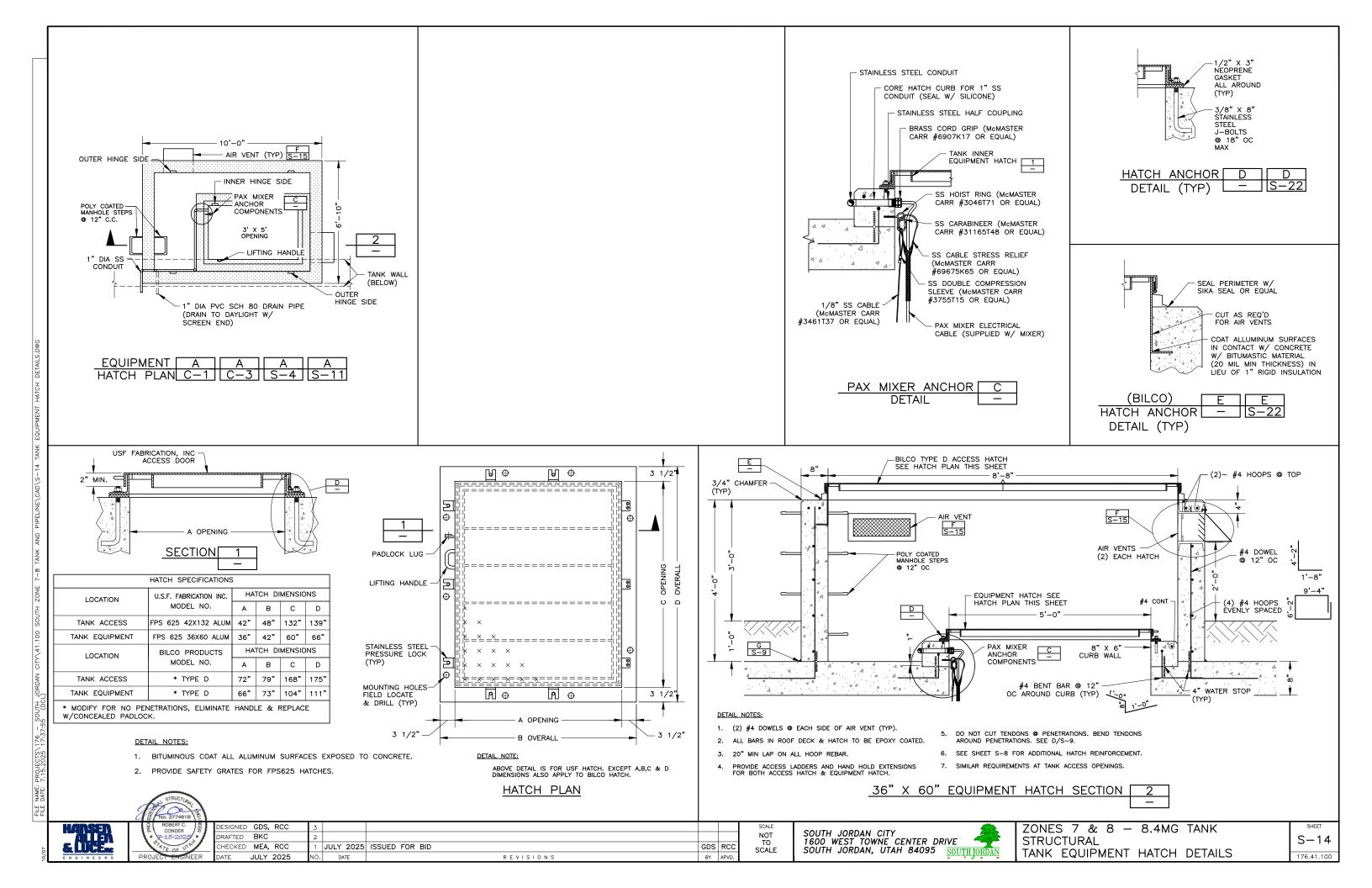
ESIGNED GDS, RCC RAFTED BKC HECKED MEA, RCC JULY 2025 ISSUED FOR BID GDS RCC JULY 2025 DATE REVISIONS

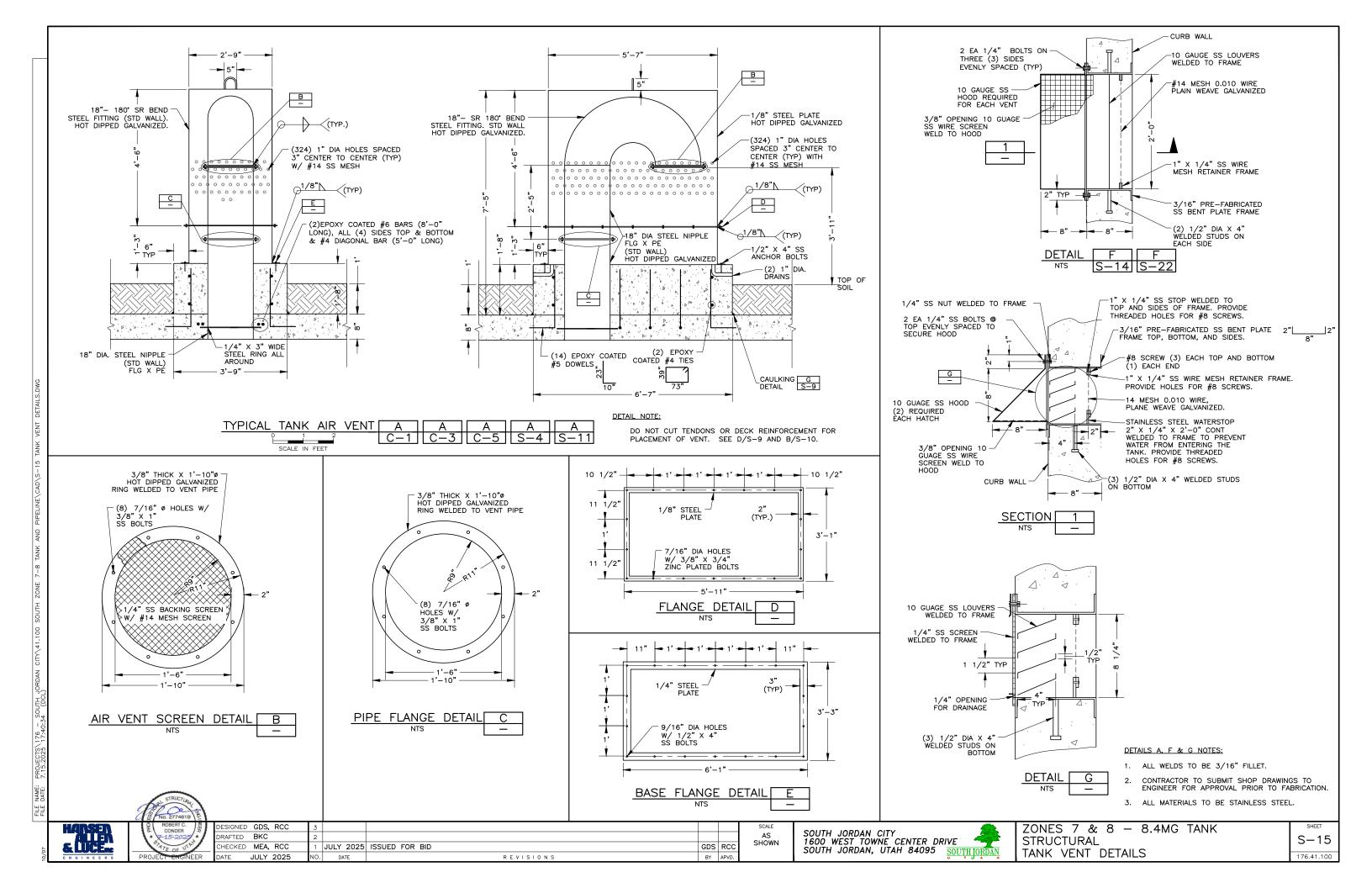


ZONES 7 & 8 - 8.4MG TANK STRUCTURAL TANK ROOF TENDON PROFILES

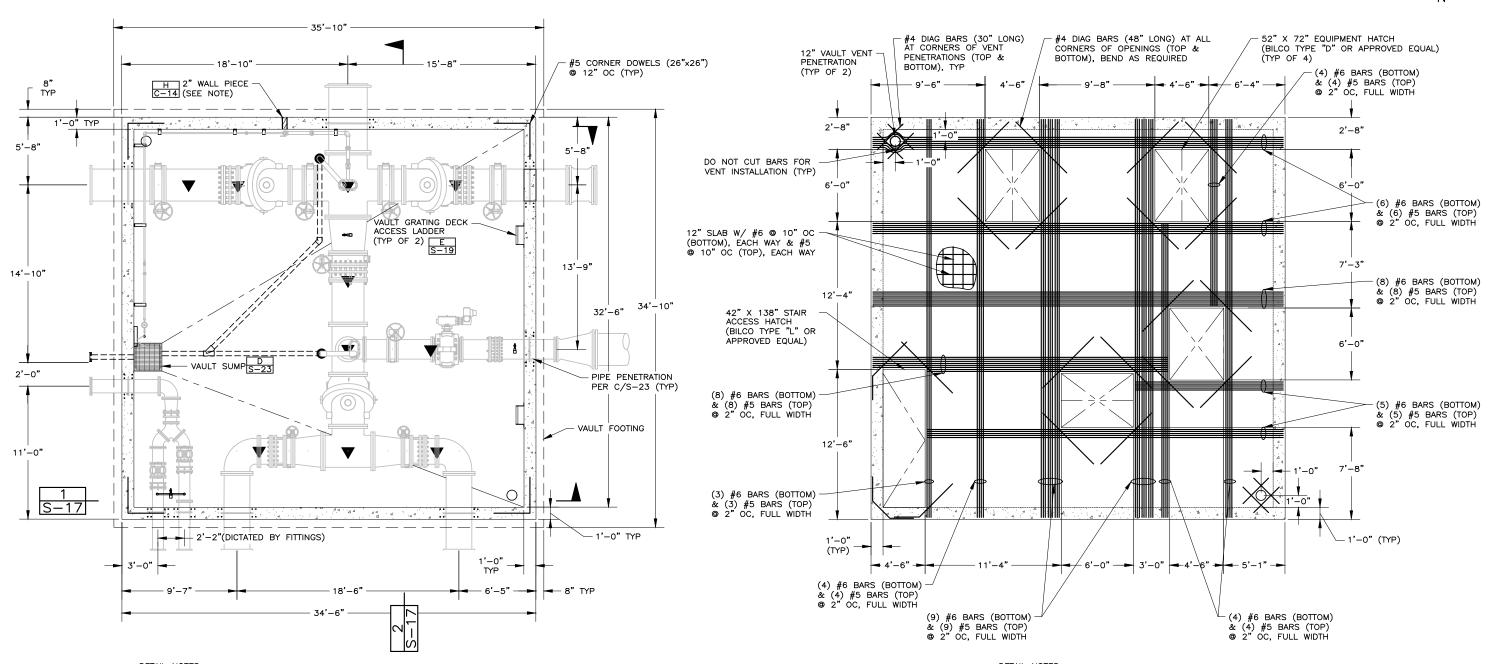
S-12 176.41.100











DETAIL NOTES:

- 1. TWO INCH WALL PIECE PLACEMENT SHALL BE INSTALLED AT 3' COVER.
- 2. FOOTING AND FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED IN WRITING BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE FORMS OR REBAR.



ETAIL NOTES:

- 1. TANK ROOF WAS NOT DESIGNED FOR ANY VEHICULAR TRAFFIC.
- 2. SLOPE ROOF SLAB TO SHED DRAIN OFF OF VAULT.

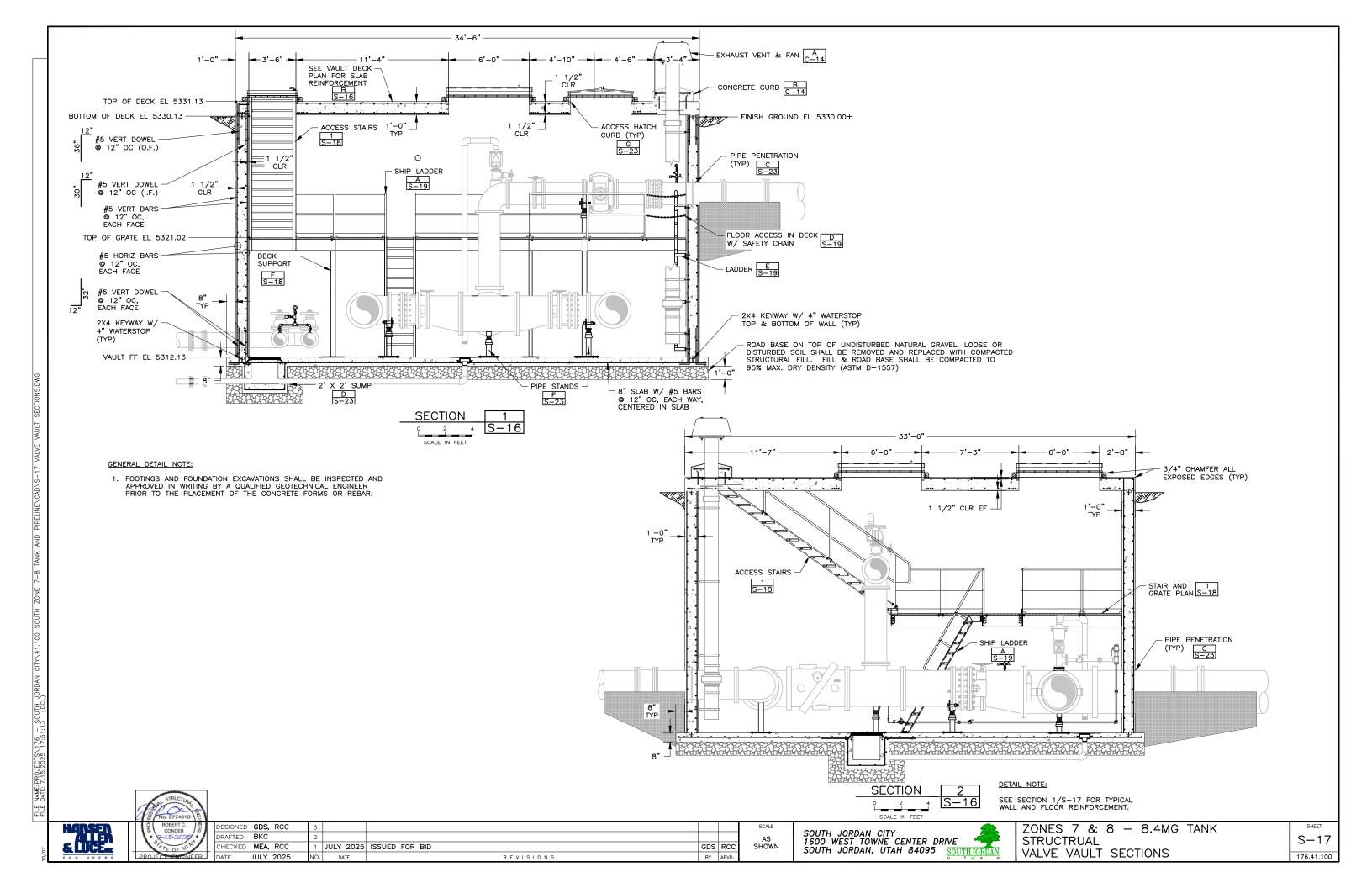


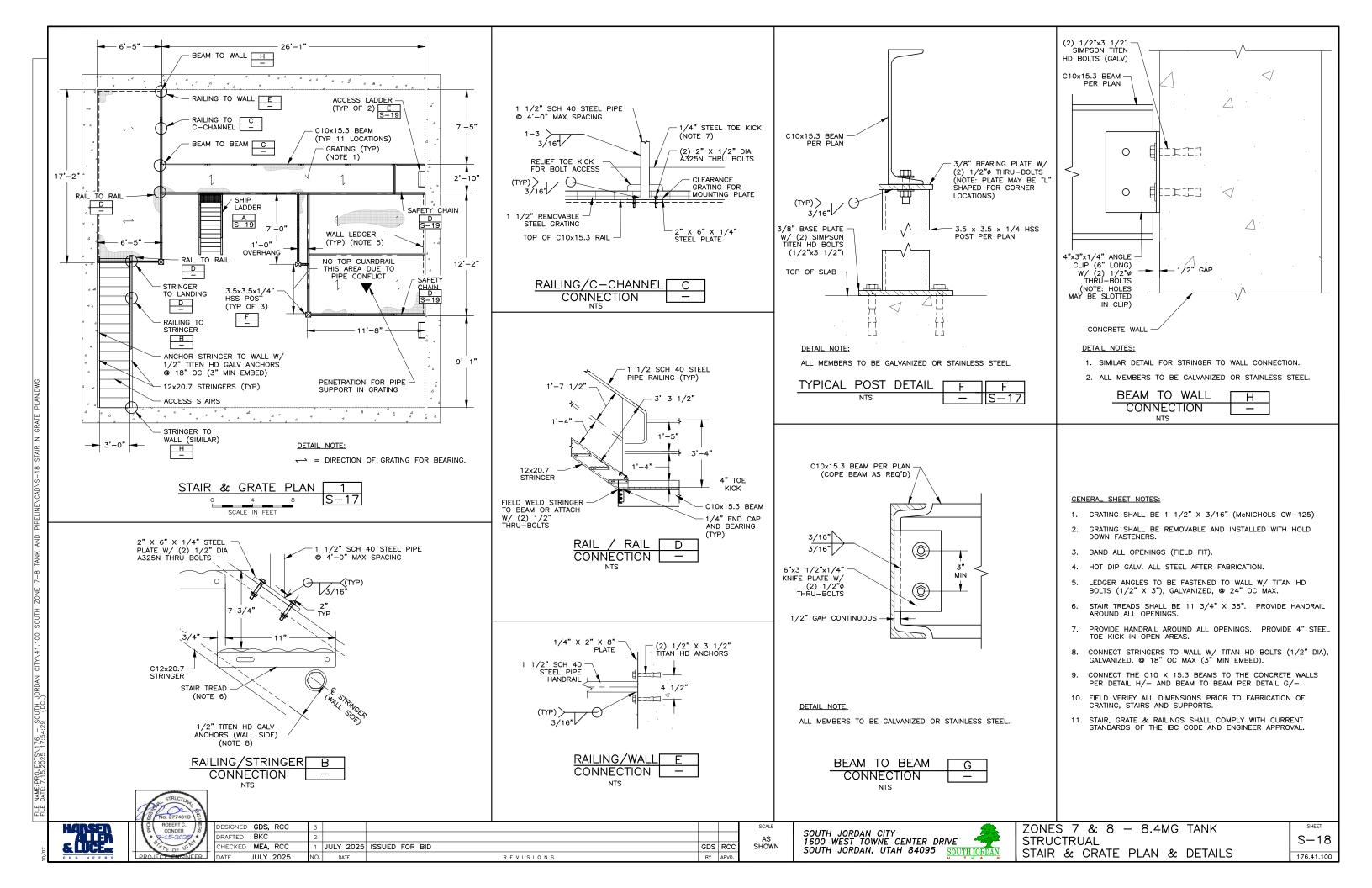


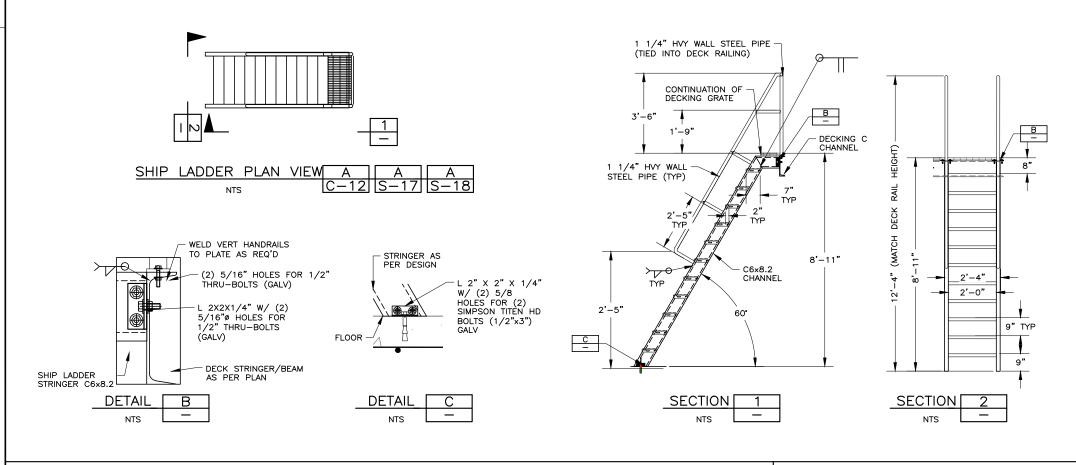
DESIGNED	GDS, R	RCC	3					
DRAFTED	BKC		2					1
CHECKED	MEA, R	RCC	1	JULY 2025	ISSUED FOR BID	GDS	RCC] 9
DATE	JULY 2	025	NO.	DATE	REVISIONS	BY	APVD.	

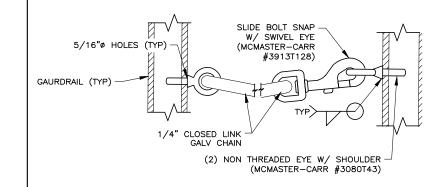
SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 — 8.4MG TANK STRUCTURAL VALVE VAULT & DECK PLAN S-16 176.41.100





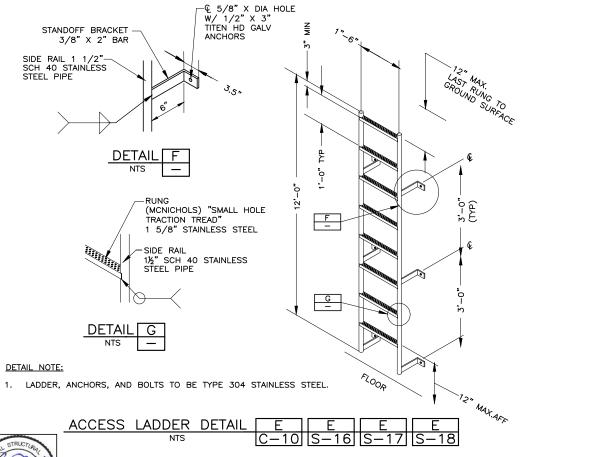




DETAIL NOTES:

- 1. CHAIN CONNECTIONS HAVE BEEN ROTATED FOR CLARITY.
- 2. SET CHAIN HEIGHTS @ CROSSBAR HEIGHTS PER ALL CODE REQUIREMENTS.
- 3. PROVIDE MIN (2) CHAINS PER OPENING

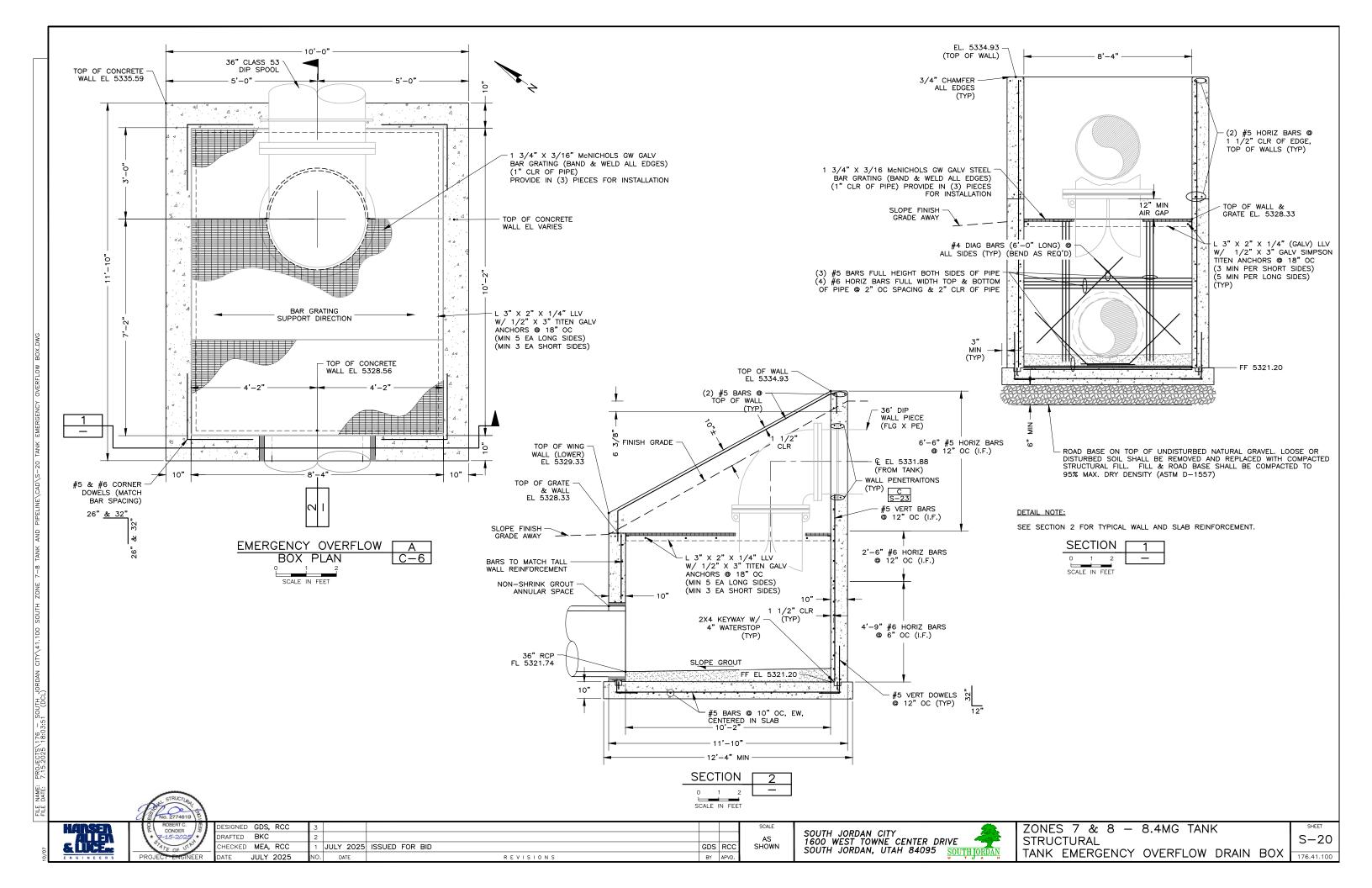


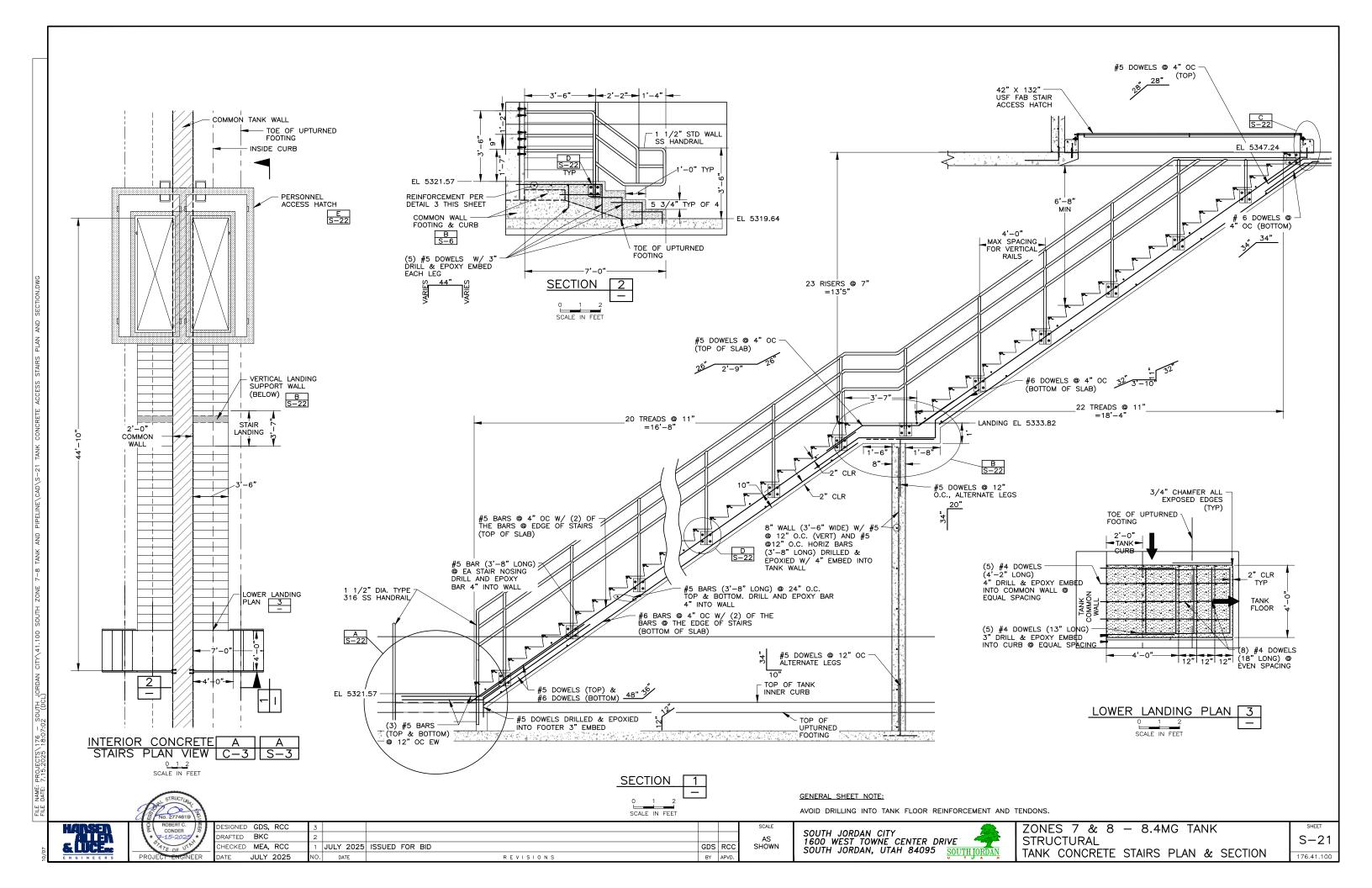


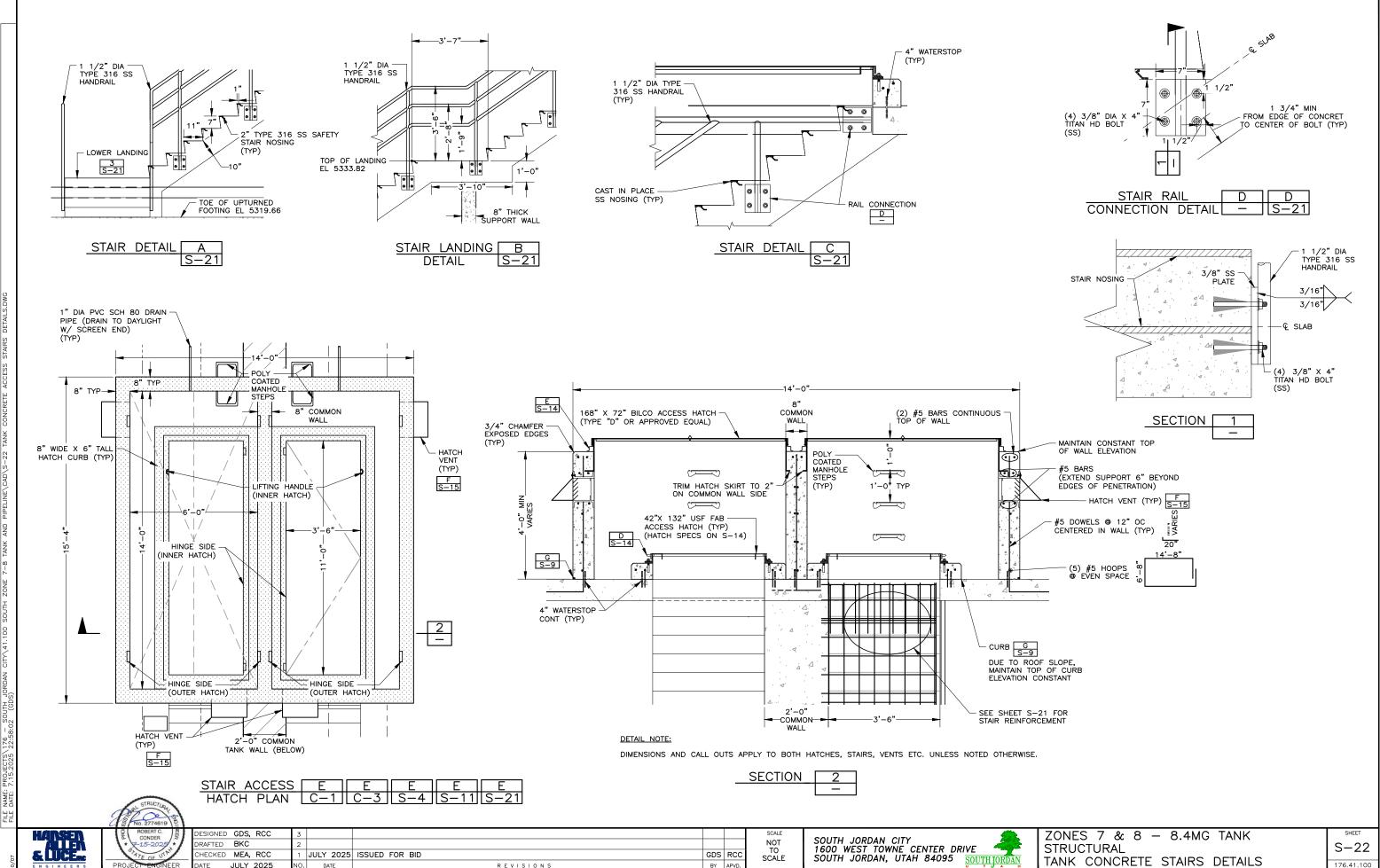
HANSEN ALLEN & LUCELLE ENGINEERS

AS SHOWN SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095
SOUTH JORDAN

ZONES 7 & 8 — 8.4MG TANK STRUCTURAL VALVE VAULT STAIRS & DETAILS SHEET
S-19
176.41.100



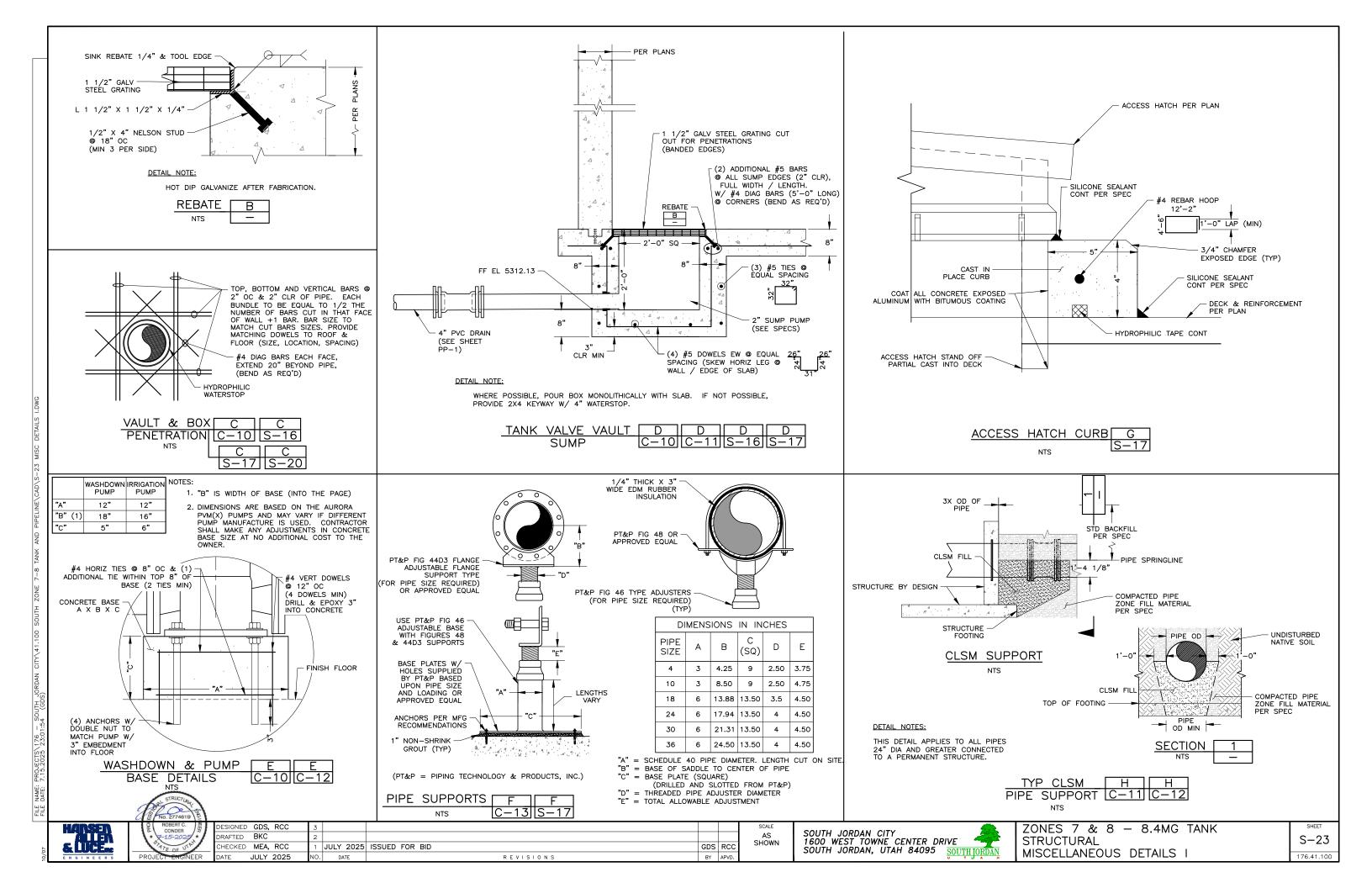


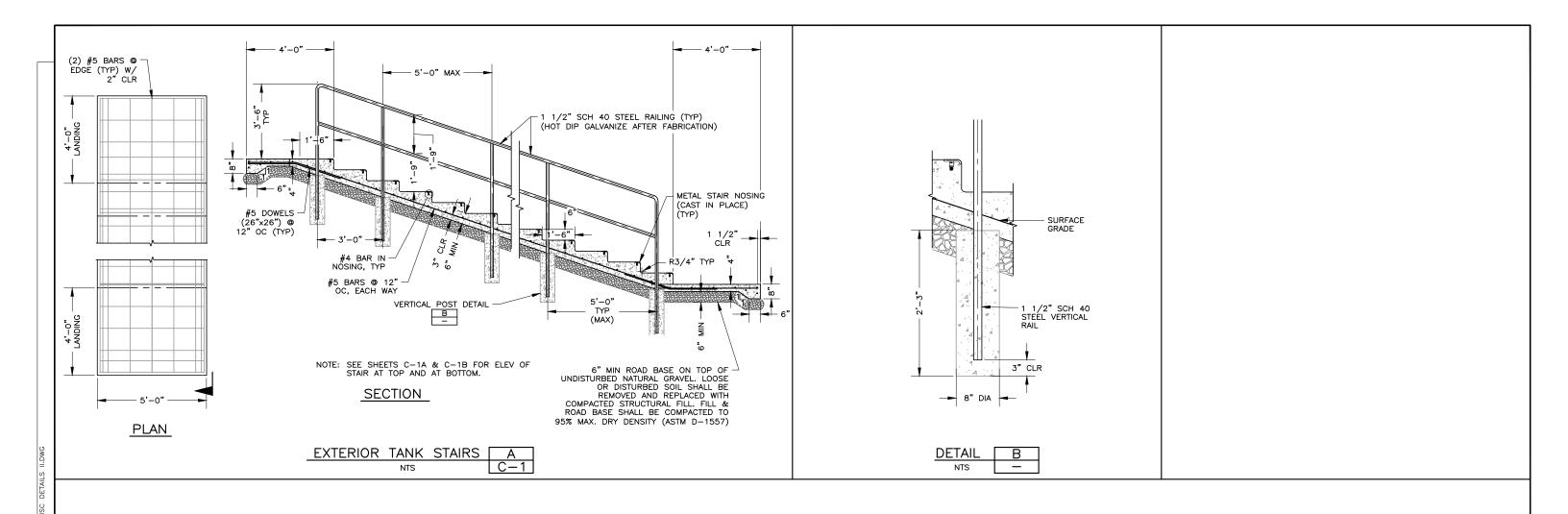


REVISIONS

JULY 2025

DATE



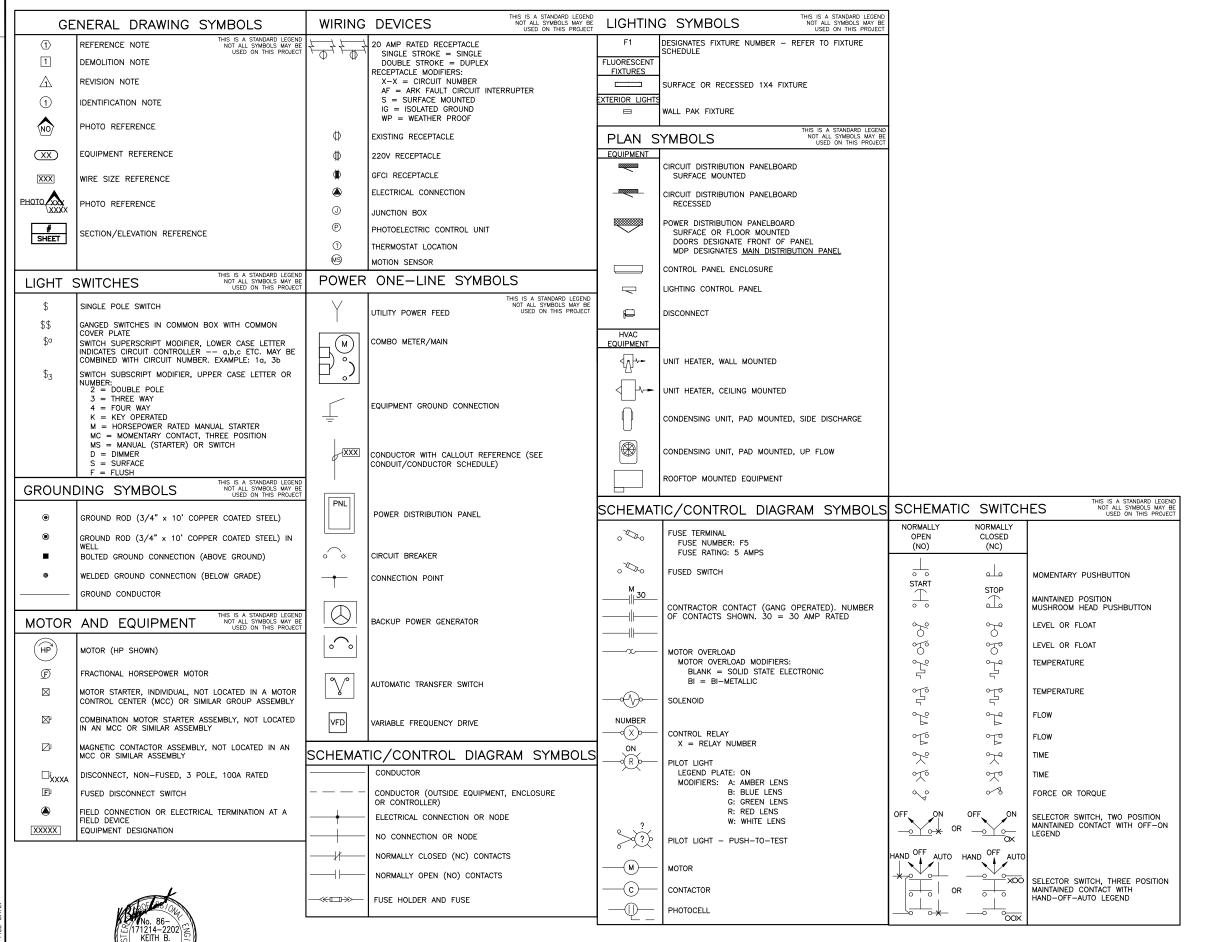


HARSEN ON SET AGE OF THE PROJECT ENGINEER

SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 — 8.4MG TANK STRUCTURAL MISCELLANEOUS DETAILS II

S-24



H.P.E. INC. ELECTRICAL ENGINEERS POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS

POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS
HEGERHORST POWER ENGINEERING INCORPORATED (801) 642-205

708 EAST 50 SOUTH AMERICAN FORK, UT 84003

HPE PROJECT:22.049

FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

GENERAL NOTES

- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH—IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO ENSURE NEC CODE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED BEFORE BEGINNING ROUGH—IN.
- 3. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH—IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
- 4. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN THE OTHER AREAS.
- 5. ALL PENETRATIONS OF FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL.
- 6. FOR PACKAGE EQUIPMENT PROVIDED ON THE PROJECT, SOME CONDUITS AND WIRES ARE SHOWN ON THE DRAWINGS, BUT IT IS EXPECTED THAT SOME ADDITIONAL CONDUITS AND WIRES MAY BE REQUIRED BY EQUIPMENT MANUFACTURERS TO COMPLETE INSTALLATION. IT IS INCUMBENT UPON THE GENERAL CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH HIS SUBCONTRACTORS TO MAKE SURE THAT EQUIPMENT SUPPLIER PROVIDED ALL NECESSARY ELECTRICAL INFORMATION TO ELECTRICAL SUBCONTRACTOR FOR INCLUSION WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.
- 7. IF OTHER THAN FIRST NAMED EQUIPMENT IS USED, IT SHALL BE CAREFULLY CHECKED FOR ELECTRICAL REQUIREMENTS AND CONTROL REQUIREMENTS OF ALTERNATE EQUIPMENT. SHOULD CHANGES OR ADDITIONS OCCUR IN ELECTRICAL WORK, OR THE WORK OF OTHER CONTRACTORS BE REVISED BY THE ALTERNATE EQUIPMENT, THE COST OF ALL CHANGES SHALL BE BORNE BY THE ELECTRICAL CONTRACTOR.

Sł	neet List Table
Sheet Number	Sheet Title
E-1.1	LEGEND & GENERAL NOTES
E-1.2	TAG LIST
E-2.1	ONE-LINE DIAGRAMS
E-2.2	CP-2 SMALL MOTOR CONTROL PANEL
E-3.1	SCHEDULES
E-4.1	SITE PLAN
E-4.2	VAULT ELECTRICAL PLANS
E-4.3	VAULT LIGHTING PLAN
E-5.1	ENCLOSURE ARRANGEMENTS
E-6.1	DETAILS SHEET 1
E-6.2	DETAILS SHEET 2
E-6.3	DETAILS SHEET 3

HANSEN ALLEN & LUCE ENGINEERS | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 2 | DESIGNED KBH | 2 | DESIGNED KBH | 1 | DESIGNED KBH | 1 | DESIGNED KBH | 1 | DESIGNED KBH | 1 | DESIGNED KBH | 1 | DESIGNED KBH | 1 | DESIGNED KBH | 2 | DESIGNED KBH | 2 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 2 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 2 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 2 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KBH | 3 | DESIGNED KB

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

NONE

| ZONES 7 & 8 - 8.4 MG TANK | ELECTRICAL | LEGEND & GENERAL NOTES E-1.1

CONDUIT/CONDUCTOR SCHEDULE THHN, THWN, THWN-2 DRAWING CONDUCTOR MIN. CONDUIT SIZE AMP ID TAG. QTY.* SIZE RATING SIZE EXCEPTIONS 20** 312 3 #12 3/4" 4 412 2 3/4" 20 30** 30+ #10 30 3 3/4" 40 4 3/4" 3/4" 28 2 #8 3 3/4" 38 50+ 3/4" 48 4 26 2 3/4" 55** 36 3 #6 3/4" 65+ 1"(C9) 46 4 3/4" 3/4" 1"(C2,C9) 24 2 70** 85+ 3 1" 3/4"(C4),1-1/4"(C9) #4 34 1-1/4"(C9) 44 4 22 1-1/4"(C9) 3 #2 1" 32 115+ 42 4 1 - 1/4" 2 1-1/4" 21 110** 130+ 1"(C3) 1-1/2"(C2,C9,C10) #1 31 3 1-1/4" 41 4 1-1/4" 210 2 1-1/4" 150 3 1/0 1-1/4" 310 410 4 1-1/2" 1-1/2"(C3,C4,C9) 220 2 1-1/4" 175 320 3 2/0 1-1/2" 4 420 3 1-1/4(C4)230 1-1/2" 2"(C3,C9) 200 3/0 1-1/2" 330 430 4 2"(C3) 240 2 230 340 3 4/0 440 4 1-1/2"(C4) 225 2 250 2-1/2"(C1,C8) 255 2" 325 3 KCMIL 2"(C4) 425 4 2-1/2"(C9) 235 2 350 2"(C4) 310 335 3 2-1/2" 3" KCMIL 2-1/2"(C1,C4) 4 435 2"(C4) 250 2 500 2-1/2"(C1,C4) 380 350 3 KCMIL 3-1/2"(C9) 450 4 3" 275 2 375 3 750 3-1/2" 3"(C1,C7,C8) 4" 3-1/2"(C1,C4,C8) 475 4 KCMIL

* CONDUCTOR QUANTITY DOES NOT INCLUDE GROUNDING CONDUCTORS. SEE EQUIPMENT GROUNDING CONDUCTORS FOR

WHERE: C1 = ELECTRICAL METALLIC TUBING "**" = 60°C RATING C2 = ELECTRICAL NON-METALLIC TUBING "+" = 75°C RATING

C3 = FLEXIBLE STEEL CONDUIT

C4 = INTERMEDIATE METALLIC CONDUIT

C7 = LIQUIDTIGHT FLEXIBLE METAL CONDUIT

C8 = RIGID METALLIC CONDUIT

C9 = PVC SCHEDULE 80 CONDUIT

C10 = PVC SCHEDULE 40 CONDUIT

"**" = RATED AMPACITY AT 60°C

"+" = RATED AMPACITY AT 75°C
USE 60°C CONDUCTOR RATING WHEN TERMINATION RATINGS

ARE NOT PUBLISHED

GROUNDING ELECTRODE CONDUCTOR SERVICE ENTRANCE OR SEPARATELY DERIVED SYSTEM

O I O I E III	
COPPER	WIRE
CONDUCTOR	SIZE
#2 OR SMALLER	#8
1 OR 1/0	#6
2/0 OR 3/0	#4
>3/0 THRU 350 KCMIL	#2
>350 KCMIL THRU 600 KCMIL	1/0

SOUTH JORDAN ZONE 7&8 SOUTH TANK TAG LIST

	HVAC EQUIPMENT								
DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY			
71	EF-1	EXHAUST FAN	CP-2	VALVE VAULT	CONTRACTOR	CONTRACTOR			

		SWI	TCHES			
DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
52	ZS-2A	STAIR HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
54	ZS-2C	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
55	ZS-2D	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
56	ZS-2E	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
57	ZS-2F	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
58	ZS-3A	STAIR HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 1	CONTRACTOR	CONTRACTOR
59	ZS-3B	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 1	CONTRACTOR	CONTRACTOR
60	ZS-3C	STAIR HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 2	CONTRACTOR	CONTRACTOR
61	ZS-3D	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 2	CONTRACTOR	CONTRACTOR
62	LSH-1	VAULT FLOOR HIGH WATER LEVEL SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
63	LSH-2	TANK OVERFLOW LEVEL SWITCH	CP-1/RTU	CELL NO. 1	CONTRACTOR	CONTRACTOR
64	LSH-3	TANK OVERFLOW LEVEL SWITCH	CP-1/RTU	CELL NO. 2	CONTRACTOR	CONTRACTOR
76	HS-7	EXHAUST FAN HOA SWITCH	CP-2	VALVE VAULT	CONTRACTOR	CONTRACTOR

INSTRUMENTS

DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
33	PT-1	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
34	PT-2	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
38	PT-3	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
39	AIT-1	CHLORINE ANALYZER	L-1	VALVE VAULT	OWNER	CONTRACTOR

CECHDITY

DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
45	CCTV-1	CCTV CAMERA	-	SITE	OWNER	FUTURE
46	CCTV-2	CCTV CAMERA	-	SITE	OWNER	FUTURE

EQUIPMENT GROUNDING CONDUCTORS

	HVAC EQUIPMENT						
RAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY	
71	EF-1	EXHAUST FAN	CP-2	VALVE VAULT	CONTRACTOR	CONTRACTOR	

SWITCHES						
DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
52	ZS-2A	STAIR HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
54	ZS-2C	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
55	ZS-2D	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
56	ZS-2E	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
57	ZS-2F	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
58	ZS-3A	STAIR HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 1	CONTRACTOR	CONTRACTOR
59	ZS-3B	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 1	CONTRACTOR	CONTRACTOR
60	ZS-3C	STAIR HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 2	CONTRACTOR	CONTRACTOR
61	ZS-3D	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	CELL NO. 2	CONTRACTOR	CONTRACTOR
62	LSH-1	VAULT FLOOR HIGH WATER LEVEL SWITCH	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
63	LSH-2	TANK OVERFLOW LEVEL SWITCH	CP-1/RTU	CELL NO. 1	CONTRACTOR	CONTRACTOR
64	LSH-3	TANK OVERFLOW LEVEL SWITCH	CP-1/RTU	CELL NO. 2	CONTRACTOR	CONTRACTOR
76	HS-7	EXHAUST FAN HOA SWITCH	CP-2	VALVE VAULT	CONTRACTOR	CONTRACTOR

INSTRUMENTS						
DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
33	PT-1	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
34	PT-2	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
38	PT-3	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	CONTRACTOR	CONTRACTOR
39	AIT-1	CHLORINE ANALYZER	L-1	VALVE VAULT	OWNER	CONTRACTOR

		3 E C	UKIII				
3	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY	1AT
	CCTV-1	CCTV CAMERA	-	SITE	OWNER	FUTURE	TAN
	CCTV-2	CCTV CAMERA	-	SITE	OWNER	FUTURE	TAN
4							TAN
							TAN

PUMP AND EQUIPMENT

	DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
	10	CP-1/RTU	MCP, SCADA RTU ENCLOSURE	L-2	VALVE VAULT	CONTRACTOR	CONTRACTOR
	11	CP-2	EXHAUST FAN CONTROL PANEL	L-4,6	VALVE VAULT	CONTRACTOR	CONTRACTOR
	13	MP	METERING PEDESTAL	UTILITY	SITE	CONTRACTOR	CONTRACTOR
	14	XFMR	UTILITY TRANSFORMER	UTILITY	SITE	CONTRACTOR	CONTRACTOR
	15	PNL-L	PANELBOARD L	MP	VALVE VAULT	CONTRACTOR	CONTRACTOR
	19	MX-1	MIXER 1	MXCP-1	CELL NO. 1	CONTRACTOR	CONTRACTOR
1	20	MX-2	MIXER 2	MCCP-2	CELL NO. 2	CONTRACTOR	CONTRACTOR
1	21	CP-3	CCTV ENCLOSURE	L-12	VALVE VAULT	CONTRACTOR	CONTRACTOR
1	41	MXCP-1	MIXER CONTROL PANEL 1	L-7	VALVE VAULT	CONTRACTOR	CONTRACTOR
1	42	MXCP-2	MIXER CONTROL PANEL 2	L-9	VALVE VAULT	CONTRACTOR	CONTRACTOR
4	43	PLE-1	CCTV CAMERA POLE (FIX TYPE F3)	-	SITE	CONTRACTOR	CONTRACTOR
1	44	PLE-2	CCTV CAMERA POLE (FIX TYPE F3)	-	SITE	CONTRACTOR	CONTRACTOR
1	83	F1	FIXTURE TYPE F1	L-7	VALVE VAULT	CONTRACTOR	CONTRACTOR
1	84	F2	FIXTURE TYPE F2	L-7	VALVE VAULT	CONTRACTOR	CONTRACTOR
1							
1							
1							
1							
4							
4							
1		•					

FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST **GENERAL NOTES:**

H.P.E. INC. ELECTRICAL ENGINEERS
POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS

(801) 642-2051

HEGERHORST POWER ENGINEERING INCORPORATED

708 EAST 50 SOUTH AMERICAN FORK, UT 84003

SHEET KEYNOTES:

HPE PROJECT:22.049

1. NOT USED.

1. NOT USED

		V A	LVES			
DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	SUPPLIED BY	INSTALLED BY
78	VA-1	BALL VALVE ACTUATOR	L-8,10	VALVE VAULT	CONTRACTOR	CONTRACTOR

CP-1 MAIN CONTROL PANEL/RTU I/O LIST

DISCRETE II	NPUTS		
DESCRIPTION	FROM	TO	NOTES
AC POWER FAULURE	CP-1	CP-1	
TANK CELL 1 EQUIPMENT HATCH OPEN	ZS-3B	CP-1	2)
TANK CELL 1 MIXER HOA IN AUTO	MXCP-1	CP-1	5)
TANK CELL 1 MIXER HOA IN HAND	MXCP-1	CP-1	5)
TANK CELL 1 MIXER RUNNING	MXCP-1	CP-1	5)
TANK CELL 1 MIXER VFD FAULT	MXDP-1	CP-1	5)
TANK CELL 1 OVERFLOW LEVEL ALARM	LSH-2	CP-1	3)
TANK CELL 1 STAIR HATCH OPEN	ZS-3A	CP-1	4)
VALVE VAULT EXHAUST FAN RUNNING	CP-2	CP-1	
VAULT EQUIPMENT HATCH OPEN	ZS-2B	CP-1	1)
VAULT FLOOR HIGH WATER ALARM	LSL-1	CP-1	
VAULT STAIR HATCH OPEN	ZS-2A	CP-1	
	1		

NOTES: 1) REPEAT FOR ZS-2C, ZS-2D, ZS-2E, ZS-2F

2) REPEAT FOR TANK CELL 2, ZS-3D

3) REPEAT FOR TANK CELL 2, LSH-3 4) REPEAT FOR TANK CELL 2, ZS-3C 5) REPEAT FOR TANK CELL 2, MXCP-2

DICCOUTE OUTDUTC

DISCRETE OUTPUTS				
DESCRIPTION	FROM	то	NOTES	
TANK CELL MIXER VFD COMMAND RUN	CP-1	MXCP-1	1)	

NOTES: 1) REPEAT FOR TANK CELL 2 MIXER-2

ANALOC INDUTO

Analog in	2015		
DESCRIPTION	FROM	TO	NOTES
CHLORINE ANALYZER	AIT-1	CP-1	
FUTURE TANK LEVEL	PT-2	CP-1	
TANK CELL 1 LEVEL	PT-3	CP-1	
TANK CELL 1 MIXER VFD RUNNING SPEED	MXCP-1	CP-1	1)
VALVE ACTUATOR POSITION	VA-1	CP-1	
VALVE VAULT INLET PRESSURE	PT-1	CP-1	

NOTES: 1) REPEAT FOR TANK CELL 2 MIXER-2

2) REPEAT FOR TANK CELL 2 PT-2

ANALOG OUTDUTS

ANALOG OU I	ANALOG OUTPUTS				
DESCRIPTION	FROM	TO	NOTES		
TANK CELL 1 MIXER VFD COMMAND SPEED	CP-1	MXCP-1	1)		
VALVE ACTUATOR POSITION COMMAND	CP-1	VA-1			

NOTES: 1) REPEAT FOR TANK CELL 2 MIXER-2

ALLEN

PROJECT ENGINEER

RAFTED KBH HECKED KBH

SEPT. 2022

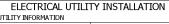
REVISIONS

NONE

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4 MG TANK ELECTRICAL TAG LIST

E - 1.2



UTILITY INFORMATION	
UTILITY COMPANY:	ROCKY MOUNTAIN POWER
UTILITY COMPANY CONTACT:	ALEXANDER MOTURI
CONTACT INFORMATION:	PHONE: o.801-576-6250, C.385 329-6041
WORK ORDER NUMBER:	8255982

SERVICE PRIMARY	SUPPLIED BY:	INSTALLED BY:		
PRIMARY TRENCHING/BACKFILL	-	CONTRACTOR		
PRIMARY CONDUIT	CONTRACTOR	CONTRACTOR		
PRIMARY CONDUCTOR	UTILITY COMPANY	UTILITY COMPANY		

SERVICE TRAINSFORMER	SUPPLIED BY:	INSTALLED BY:
TRANSFORMER PAD	UTILITY COMPANY	UTILITY COMPANY
TRANSFORMER	UTILITY COMPANY	UTILITY COMPANY

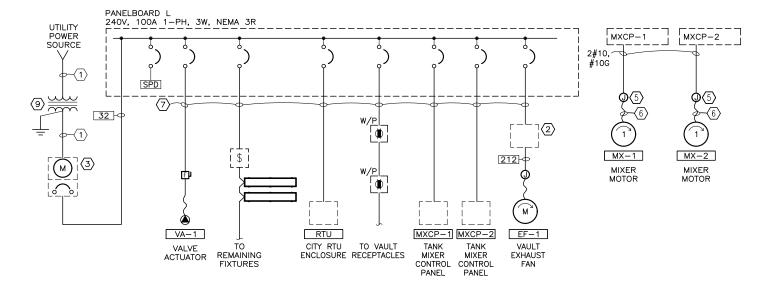
SERVICE SECONDARY	SUPPLIED BY:	INSTALLED BY:				
SECONDARY TRENCHING/BACKFILL	-	CONTRACTOR				
SECONDARY CONDUIT	CONTRACTOR	CONTRACTOR				
SECONDARY CONDUCTOR	UTILITY COMPANY	UTILITY COMPANY				

METERING EQUIPMENT	SUPPLIED BY:	INSTALLED BY:
METER	UTILITY COMPANY	UTILITY COMPANY
METER SOCKET	CONTRACTOR	CONTRACTOR
COMBO METER/MAIN	CONTRACTOR	CONTRACTOR
CURRENT TRANSFORMER ENCL.	-	-
MAIN SERVICE DISCONNECT	-	-
CT ENCL. TO METER SOCKET WIRING	-	-
CT ENCL. TO METER SOCKET CONDUIT	-	-
MA IN SERVICE DISCONNECT	SUPPLIED BY:	INSTALLED BY:

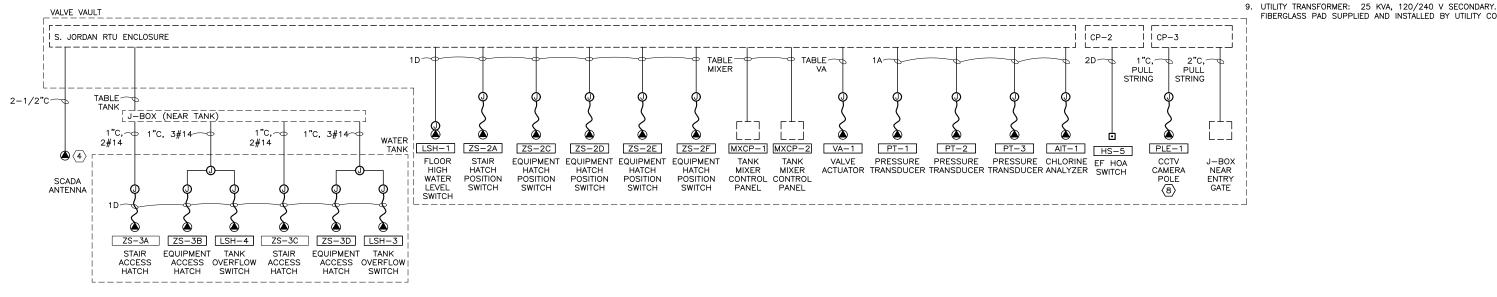
CONTRACTOR

CIRCUIT BREAKER

FUSED DISCONNECT SWITCH



POWER ONE-LINE DIAGRAM



INSTRUMENTATION AND CONTROL ONE-LINE DIAGRAM

TABLE VA (CP-1 TO VALVE ACTUATOR)

CONDUIT	COND	JCTOR	CP-1 TO VALVE ACTUATOR
SIZE	QTY	SIZE	SIGNAL DESCRIPTION
	1	#16TSP	VALVE COMMAND POSITION
3/4"C	1	#16TSP	VALVE POSITION

TABLE TANK (CP-1 TO TANK J-BOX)

CONDUIT	COND	JCTOR	CP-1 TO TANK J-BOX							
SIZE	QTY	SIZE	SIGNAL DESCRIPTION							
	1	#14	COMMON INPUT							
	1	#14	HATCH POSITION SWITCH (ZS-3A)							
	1	#14	HATCH POSITION SWITCH (ZS-3B)							
	1	#14	HATCH POSITION SWITCH (ZS-3C)							
1"C	1	#14	HATCH POSITION SWITCH (ZS-3D)							
	1	#14	TANK LEVEL SWITCH (LSH-3)							
	1	#14	TANK LEVEL SWITCH (LSH-4)							
	4	#14	SPARE							

TABLE MIXER (CP-1 TO MIXER)

CONDUIT CONDUCTOR

OHDOIL	COND	JUIUN	SIGNAL DESCRIPTION
SIZE	QTY	SIZE	SIGNAL DESCRIPTION
	1	#14	COMMON INPUT
	1	#14	COMMON OUTPUT
	1	#14	MIXER COMMAND RUN
	1	#14	MIXER HOA SWITCH IN AUTO
1"C	1	#14	MIXER HOA SWITCH IN HAND
	1	#14	MIXER RUNNING
	1	#14	MIXER VFD FAULT
	3	#14	SPARE
	1	#18TSP	MIXER VFD SPEED
3/4"C	1	#18TSP	MIXER COMMAND SPEED

I&C WIRE/CONDUIT TABLE

	IDENT.	CONDUIT	CON	DUCTOR	SIGNAL DESCRIPTION					
	IDENT.	SIZE	QTY	SIZE	SIGNAL DESCRIPTION					
1	1A	3/4"	1	#18TSP	1 ANALOG SIGNAL					
1	2A	3/4"	2	#18TSP	2 ANALOG SIGNALS					
1	3A	3/4"	3	#18TSP	3 ANALOG SIGNALS					
1										
1	IDENT.	CONDUIT	CON	DUCTOR	SIGNAL DESCRIPTION					
1	IDENT.	SIZE	QTY	SIZE	2 STOWAL DESCRIPTION					
1	1D	3/4"	2	#14	1 COMMON, 1 DISCRETE SIG.					
1	2D	3/4"	3	#14	1 COMMON, 2 DISCRETE SIG.					
1	3D	3/4"	4	#14	1 COMMON, 3 DISCRETE SIG.					
1	4D	3/4"	5	#14	1 COMMON, 4 DISCRETE SIG.					
1										
_										

NONE

#250 KCMIL (SEE TABLE) BC TO WATER PIPE PER NEC 250.52A(1) #250KCMIL BC TO CONCRETE ENCASED GROUND (UFER) PER NEC 250.52A(3) & NEC 250.66(B) UFFR GROUND GROUND RING

GROUNDING DIAGRAM

PROJECT ENGINEER

RAFTED KBH HECKED KBH

SEPT. 2022 REVISIONS

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOU

ZONES 7 & 8 - 8.4 MG TANK **ELECTRICAL** ONE-LINE DIAGRAMS

E - 2.1

H.P.E. INC. ELECTRICAL ENGINEERS
POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS

FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

FOR DEVICE AND EQUIPMENT LOCATIONS REFER TO ELECTRICAL PLAN SHEETS.

2. ALL CONDUCTORS FROM EACH DEVICE OR INSTRUMENT AS SPECIFIED ON CONTROL ONE—LINE TO BE CONTINUOUS FROM CONTROL PANEL THROUGH PULL BOXES OR WIREWAYS TO

3. METERING PEDESTAL, 100A MIN. 240 VAC, 1-PH, 3-W WITH 100A MAIN CIRCUIT BREAKER. LABEL AS "MAIN SERVICE

DISCONNECT" AND WITH AVAILABLE FAULT CURRENT AS REQUIRED

INSTALL ANTENNA SUPPORT, CONDUIT FOR COAX, GROUNDING AND WEATHERHEAD. COAX AND ANTENNA INSTALLED BY OWNER. FOR LOCATION, REFER TO KEYNOTE 3 ON E-4.1.

5. POLYCARBONATE J-BOX INSTALLED IN TANK HATCH OPENING.

7. FOR CONDUIT AND CONDUCTOR INFORMATION REFER TO THE PANELBOARD SCHEDULE FOR THE CIRCUIT ID, THEN REFER TO

8. SHOWN FOR PLE-1. DUPLICATE FOR CCTV PLE-2. PULL

FIBERGLASS PAD SUPPLIED AND INSTALLED BY UTILITY COMPANY

(801) 642-205

HEGERHORST POWER ENGINEERING INCORPORATED

708 EAST 50 SOUTH AMERICAN FORK, UT 84003 HPE PROJECT:22.049

GENERAL NOTES:

DEVICE WITHOUT SPLICES.

1. 3"C, AS REQUIRED BY THE UTILITY COMPANY

2. EXHAUST FAN CONTROL PANEL CP-2.

6. CABLE SUPPLIED WITH MIXER MOTOR.

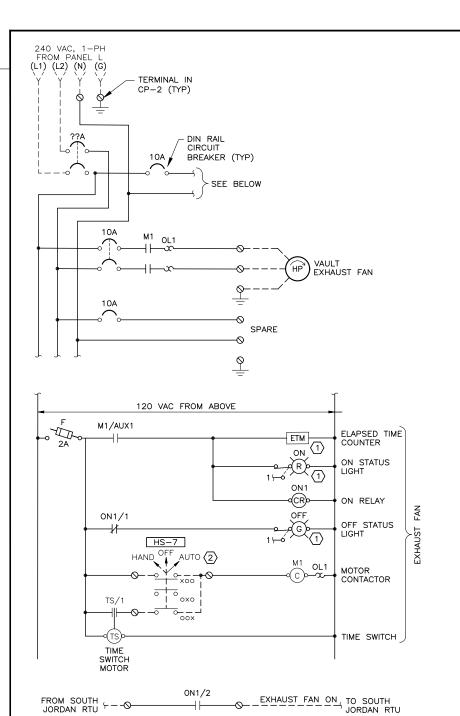
THE CONDUIT/CONDUCTOR TABLE.

BOXES NOT SHOWN.

SHEET KEYNOTES:

BY NEC 110.24.

SOUTH JORDAN



CP-2 CONTROL DIAGRAM

TERMINAL LEGEND:

O FIELD TERMINAL

☐ CP-1 MAIN CONTROL PANEL

○ CP-2 SMALL MOTOR CONTROL PANEL

H.P.E. INC. ELECTRICAL ENGINEERS POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS (801) 642-2051

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HEGERHORST POWER ENGINEERING INCORPORATED 708 EAST 50 SOUTH AMERICAN FORK, UT 84003

HPE PROJECT:22.049 FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

GENERAL NOTES:

- 1. DIAGRAM IS TYPICAL AND SHALL BE MODIFIED BY THE CONTRACTOR FOR THE PROVIDED DEVICES.
- 2. REFER TO ONE—LINE DIAGRAM FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

SHEET KEYNOTES:

- 1. INSTALL DEVICES IN CONTROL PANEL DOOR AND AVAILABLE TO THE OPERATOR.
- 2. SWITCH LOCATED NEAR VAULT ENTRY LIGHT SWITCH.

HANSEN ALLEN & LUCE...

PROJECT ENGINEER

RAFTED KBH HECKED KBH SEPT. 2022 REVISIONS

SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

NONE

ZONES 7 & 8 - 8.4 MG TANK ELECTRICAL CP-2 SMALL MOTOR CONTROL PANEL E-2.2

OCAT	ION: VALVE VAULT	MFGR:	SQUARE D	COMPANY			100	AMPS						VOLTS:	240/120			Т
MEN	SIONS: 5.75"D x 20"W x 38"H TYPE		TYPE: NQ											PHASE:	1			
1OUN	TING: SURFACE	NEMA:	3R				100	M.C.B.						WIRES:	3			
EED:	TOP					10,000 A.I.C.		A.I.C.					F	ED FROM:	UTILITY			
							PHASE											П
BRKR		WIRE				A	i i	E	3						WIRE		BR	₹
Α	P DESCRIPTION	SIZE	CONT.	N. CONT.	NO	CONT.	N. CONT.	CONT.	N. CONT.			NO	N. CONT.	CONT.	SIZE	DESCRIPTION	Α	
20	1 RESIDUAL CHLORINE ANALYZER	212	200		1	950	0					2		750	212	CP-1 S. JORDAN RTU	20)
20	1 RECEPT, VALVE VAULT	312		900	3			244	900			4	0	244	212	CP-2 EXHAUST FAN CONTROL PANEL	20)
20	1 LTS, VALVE VAULT	212	140		5	384	0					6	0	244	-	-	-	
30	1 MXCP-1 MIXER CONTROL PANEL	20	1,920		7			1,920	414			8	414		212	VA-1 BALL VALVE ACTUATOR	20)
30	1 MXCP-2 MIXER CONTROL PANEL	20	1,920		9	1,920	414					10	414		-	-	-	
	1 AVAILABLE SPACE	-			11			150	0			12		150	212	CP-3 CCTV ENCLOSURE	20)
	1 AVAILABLE SPACE				13	0	0					14			-	SPARE	20)
	1 AVAILABLE SPACE	-			15			0	0			16			-	SPARE	20)
	1 AVAILABLE SPACE	-1			17	0	0					18				AVAILABLE SPACE		
\neg	TOTAL WATTS:		4,180	900		3,254	414	2,314	1,314	0	0		828	1,387			_	-
	CONTINUOUS LOAD:		5,567															
	CONTINUOUS LOAD * 125%;		6,959															
	NON-CONTINUOUS LOAD:		1,728															
	DESIGN WATTS:		8.687															

EOUIPMENT S	CHEDUL	F
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ITEM	DESCRIPTION	LOCATION	EQUIPMENT RATING							DISC	ONNECT	Ī	CONNECTION	STARTER	NOTES	
TIEN			VOLTS	PH	HP	WATTS	FLA	MCA	AMPS	VOLTS	POLES	NEMA	FUSE	CONNECTION	TYPE	NOTES
MX-1	MIXER MOTOR	TANK	120	1	1	1,920		-	-	-	-	-	-	HARD-WIRED	VFD	1)
MX-2	MIXER MOTOR	TANK	120	1	1	1,920		-	-	-	-	-	-	HARD-WIRED	VFD	1)
MXCP-1	MIXER CONTROL PANEL	VALVE VAULT	120	1	-	1,920		-	-	-	-	-	-	HARD-WIRED	-	
MXCP-2	MIXER CONTROL PANEL	VALVE VAULT	120	1	-	1,920		-	-	-	-	-	-	HARD-WIRED	-	
VA-1	VALVE ACTUATOR	VALVE VAULT	230	1	1/3	828	3.6	-	-	-	-	-	-	HARD-WIRED	INCL.	

NOTES: 1) VFD LOCATED IN MIXER CONTROL PANEL.

MIN. RATING (AMPS):

MECHANICAL HVAC EQUIPMENT SCHEDULE

	ITEM	DESCRIPTION	DESCRIPTION LOCATION	EQUIPMENT RATING				G		DISCONNECT				CONNECTION	STARTER	NOTES	
				VOLTS	PH	HP	WATTS	FLA	MCA	AMPS	VOLTS	POLES	NEMA	FUSE	CONNECTION	TYPE	INUTES
	EF-01	EXHAUST FAN	VALVE VAULT	240	1	-	487	3.6		-	-	-	-	-	HARD-WIRED	FVNR	1)

NOTES: 1) NO DISCONNECT REQUIRED AS POWER SOURCE IS WITHIN SITE OF LOAD.

EXHAUST FAN CONTROL PANEL CP-2

									_		
LOCATION: VALVE VAULT			MFGR:	CUSTOM		AMPS		VOLTS:	240		
DIME	NS	SIONS: BY CONTRACTOR	TYPE:	NEMA 12				PHASE:	1		
MOUNTING: SURFACE					-	M.C.B.		WIRES:	3		
FEED: N/A					A.I.C.	C. FED FROM: L-6,8					
						PHASE LOADS					
BR	R		WIRE				,	4		3	
Α	P	DESCRIPTION	SIZE	CONT.	N. CONT.	NO	CONT.	N. CONT.	CONT.	N. CONT.	
10	1	. CONTROL POWER		50		1	50	0			
15	1	VAULT EXHAUST FAN	212	487		2	244	0	244	0	
10	1	SPARE CB				3	0	0			
	H	TOTAL WATTS:		537	0		294	0	244	0	
		CONTINUOUS LOAD:		537							
		CONTINUOUS LOAD * 125%:		671							
		NON-CONTINUOUS LOAD:		0							
		DESIGN WATTS:		671							
		MIN. RATING (AMPS):		2.8							

HEGERHORST POWER STSTEMS, CONTROL & INSTRUM 708 EAST 50 SOUTH AMERICAN FORK, UT 84003 (801) 642-2051

H.P.E. INC. ELECTRICAL ENGINEERS
POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS

HPE PROJECT:22.049
FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

1		FIXTURE SCHEDULE											
ı	TYPE	DESCRIPTION	MANUFACTURER			LAMP	LUMENS	TEMPERATURE	MOUNTING	NOTES:			
1	TIPE		NAME	CATALOG NO.	VA	LAMP	LUPIENS	(KELVIN)	MODIVITING	NOTES.			
1	F1	4' LED ENCLOSED INDUSTRIAL, FIBERGLASS	METALUX	4VT2LED-LD5-6-DR-UNV-L840-CD-1-U	53	INCL.	6,000	4,000	SURFACE				
J		HOUSING, DAMP LOCATION, MVOLT, 4,000 LUMENS											
	F2	VAPORTITE GLOBE REFRACTOR	LURALINE	LVW955S	11	N/A	884	4,000	WALL				
	F3	SOUARE STEEL POLE, 4" X 12', 100 MPH WIND LOAD	KW	SSP12-4.0-7-BRZ	N/A	N/A	N/A	N/A	N/A				
	13	SQUARE STEEL FOLE, 4 × 12, 100 MFTT WIND LOAD	KVV	33F1Z-4.0-7-BRZ	11//	11//	IN/A	14/	19/74				

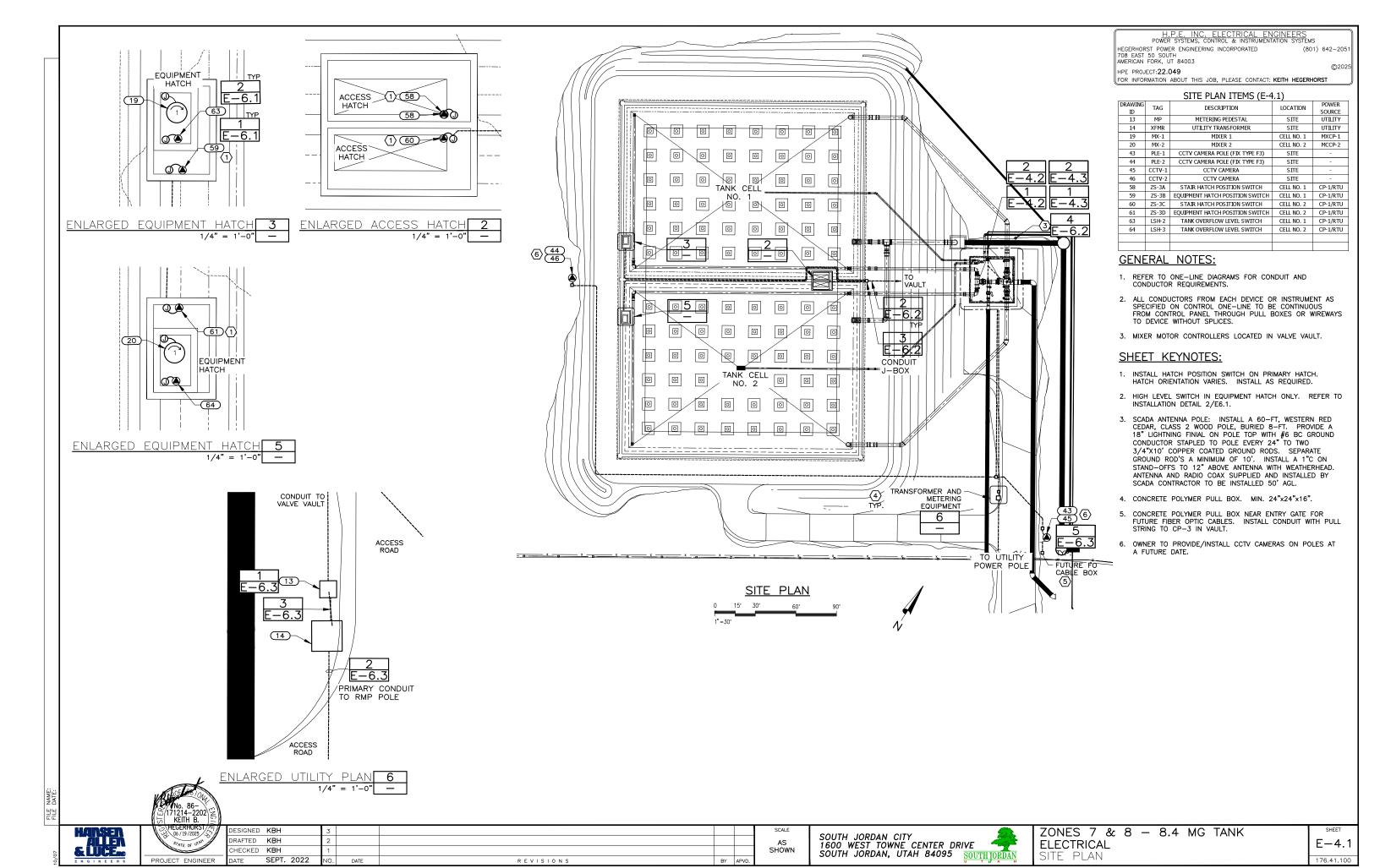
PROJECT ENGINEER

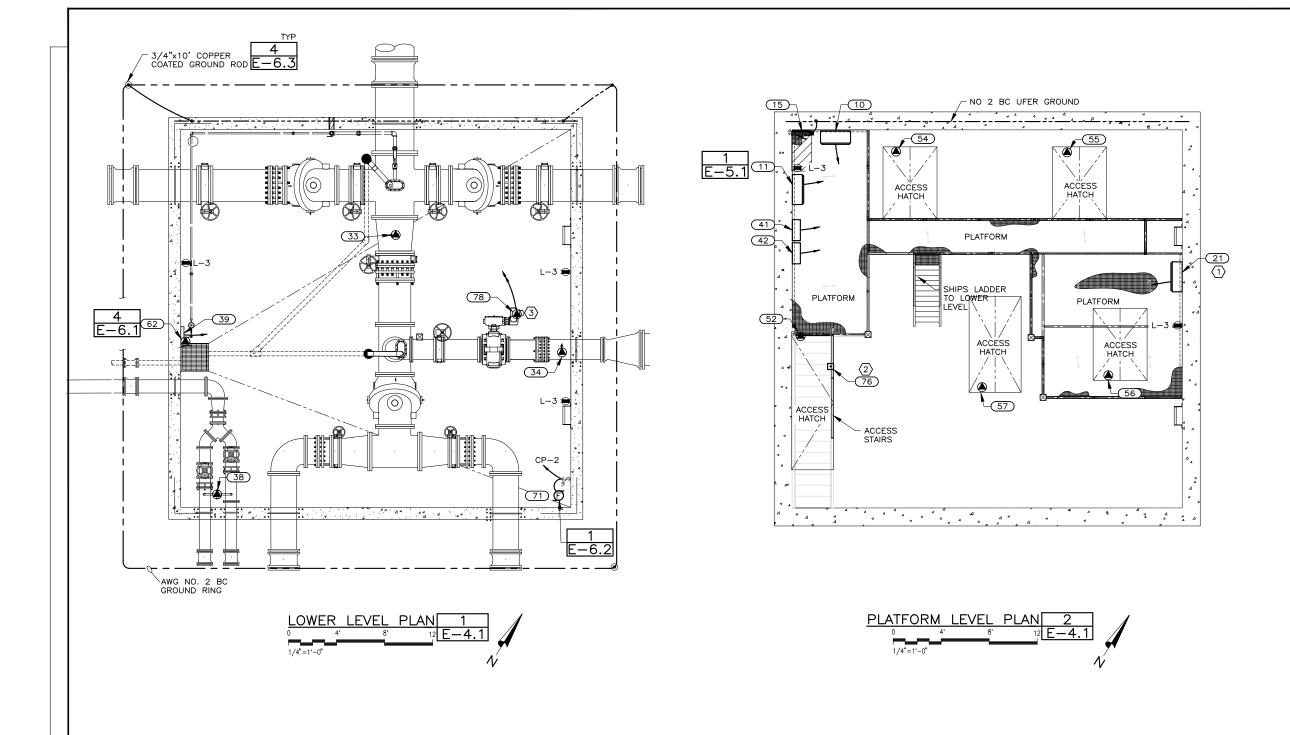
DRAFTED KBH CHECKED KBH SEPT. 2022 REVISIONS NONE

SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 — 8.4 MG TANK ELECTRICAL SCHEDULES

E - 3.1





H.P.E. INC. ELECTRICAL ENGINEERS
POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS (801) 642-205

HEGERHORST POWER ENGINEERING INCORPORATED
708 EAST 50 SOUTH
AMERICAN FORK, UT 84003

HPE PROJECT:22.049 FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

VAULT POWER PLAN ITEMS

DRAWING ID	TAG	DESCRIPTION	POWER SOURCE	LOCATION	
10	CP-1/RTU	MCP, SCADA RTU ENCLOSURE	L-2	VALVE VAULT	
11	CP-2	EXHAUST FAN CONTROL PANEL	L-4,6	VALVE VAULT	
15	PNL-L	PANELBOARD L	MP	VALVE VAULT	
21	CP-3	CCTV ENCLOSURE	L-12	VALVE VAULT	
33	PT-1	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	
34	PT-2	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	
38	PT-3	PRESSURE TRANSMITTER	CP-1/RTU	VALVE VAULT	
39	AIT-1	CHLORINE ANALYZER	L-1	VALVE VAULT	
41	MXCP-1	MIXER CONTROL PANEL 1	L-7	VALVE VAULT	
42	MXCP-2	MIXER CONTROL PANEL 2	L-9	VALVE VAULT	
52	ZS-2A	STAIR HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	
54	ZS-2C	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	
55	ZS-2D	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	
56	ZS-2E	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	
57	ZS-2F	EQUIPMENT HATCH POSITION SWITCH	CP-1/RTU	VALVE VAULT	
62	LSH-1	VAULT FLOOR HIGH WATER LEVEL SWITCH	CP-1/RTU	VALVE VAULT	
71	EF-1	EXHAUST FAN	CP-2	VALVE VAULT	
76	HS-7	EXHAUST FAN HOA SWITCH	CP-2	VALVE VAULT	
78	VA-1	BALL VALVE ACTUATOR	L-8,10	VALVE VAULT	

GENERAL NOTES:

- 1. FOR POWER SOURCE OR "HOME RUN" REFER TO THE ITEM LIST TABLE. REFER TO THE PANELBOARD SCHEDULE OR POWER ONE-LINE DIAGRAM FOR A CIRCUIT ID, THEN REFER TO THE CONDUIT/CONDUCTOR TABLE ON E-1.2.
- 2. CONDUIT PENETRATIONS INTO VAULT SHALL HAVE A MINIMUM OF 18-INCHES OF GROUND COVER. DO NOT INSTALL CONDUITS THROUGH VAULT ROOF DECK.
- 3. INSTALL RECEPTACLES AT +36-IN ABOVE FINISHED FLOOR OR PLATFORM LEVEL.

SHEET KEYNOTES:

- 1. PROVIDE AND INSTALL A 36"HX30"WX12"D STEEL ENCLOSURE WITH INTERNAL MOUNTING PANEL. LABEL AS CP-3 CCTV EQUIPMENT.
- 2. INSTALL SWITCH SO AN OPERATOR CAN ACCESS THE SWITCH WITHOUT ENTERING THE VAULT.
- 3. VALVE IS ON PLATFORM LEVEL. REFER TO SECTION 1/C-11 FOR LOCATION.

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PROJECT ENGINEER

RAFTED KBH HECKED KBH SEPT. 2022

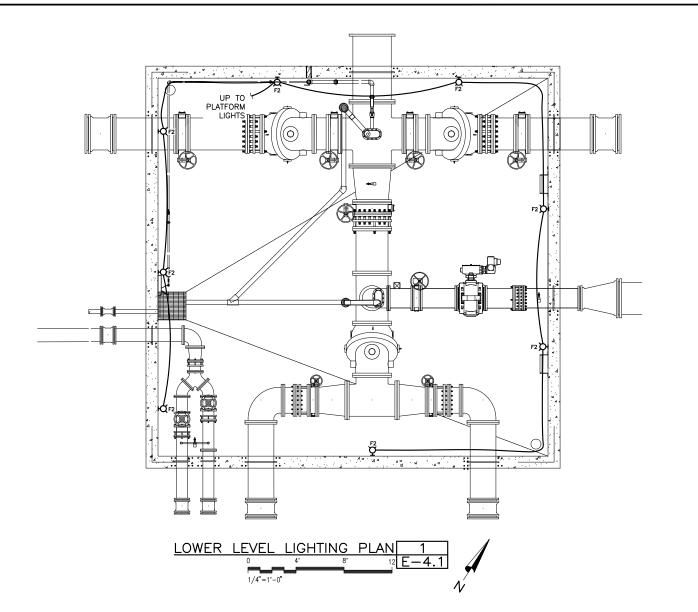
REVISIONS

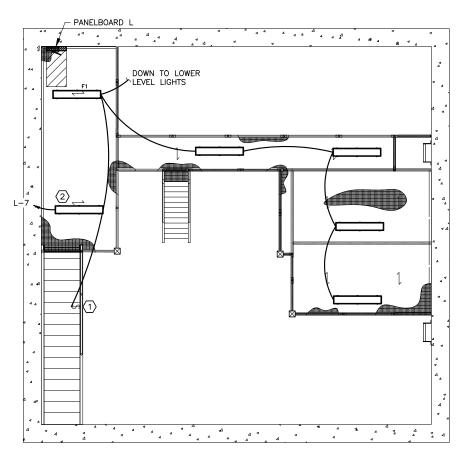
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SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4 MG TANK ELECTRICAL VAULT ELECTRICAL PLANS

E - 4.2





PLATFORM LEVEL LIGHTING PLAN

SHOWN

H.P.E. INC. ELECTRICAL ENGINEERS POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS

HEGERHORST POWER ENGINEERING INCORPORATED (801) 642–2051
708 EAST 50 SOUTH
AMERICAN FORK, UT 84003

HPE PROJECT:22.049

FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

GENERAL NOTES:

- FOR WIRE AND CONDUIT REQUIREMENTS, REFER TO PANEL SCHEDULE FOR CIRCUIT ID, THEN REFER TO THE CONDUIT/ CONDUCTOR TABLE ON E-1.0 FOR THE WIRE AND CONDUIT.
- 2. INSTALL THE F2 FIXTURES 8-INCHES BELOW THE BOTTOM OF THE PLATFORM. MATCH HEIGHT FOR ALL FIXTURES IN THE LOWER LEVEL.
- 3. FIXTURE SCHEDULE PROVIDED ON E3.1.

SHEET KEYNOTES:

- INSTALL LIGHT SWITCH AND EF HOA SWITCH SO AN OPERATOR CAN REACH THEM FROM OUTSIDE THE VAULT.
- 2. PROVIDE A 90-MINUTE BATTERY IN THIS FIXTURE.

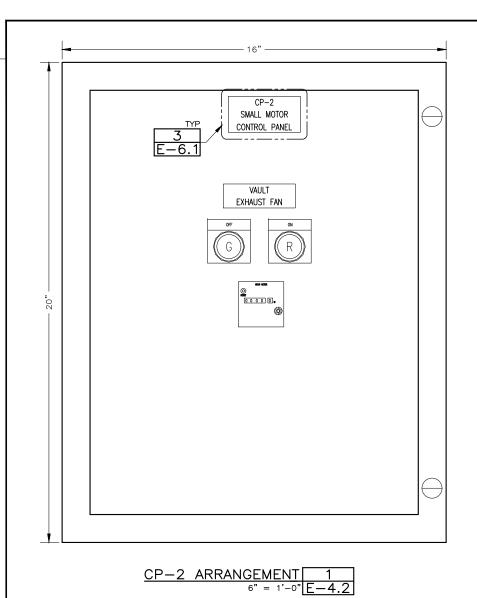
(No. 86-(T171214-2202) (KEITH B. (No. 197202) (No. 197202)

| DESIGNED | KBH | 3 | DRAFTED | KBH | 2 | CHECKED | KBH | 1 | CHECKED | KBH | 1 | DATE | SEPT. 2022 | NO. | DATE | R E V I S I O N S | BY APVD.

SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 — 8.4 MG TANK ELECTRICAL VAULT LIGHTING PLAN

E-4.3



H.P.E. INC. ELECTRICAL ENGINEERS
POWER SYSTEMS, CONTROL & INSTRUMENTATION SYSTEMS

(801) 642-2051

HEGERHORST POWER STSTEMS, CONTROL & INSTRUM 708 EAST 50 SOUTH AMERICAN FORK, UT 84003

HPE PROJECT:22.049 FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

GENERAL NOTES:

- CONTRACTOR SHALL DETERMINE ENCLOSURE DIMENSIONS BASED ON COMPONENTS SELECTED. SIZE SHOWN IS APPROXIMATE. INTERNAL ARRANGEMENT DETERMINED BY CONTRACTOR.
- 2. CP-2 TYPICAL CONTROL DIAGRAM SHOWN ON E2.2.

SHEET KEYNOTES:

1. CP-2 ENCLOSURE SHALL INCLUDE THE TIME SWITCH.

PROJECT ENGINEER

HANSEN ALLIEN & LUCE...

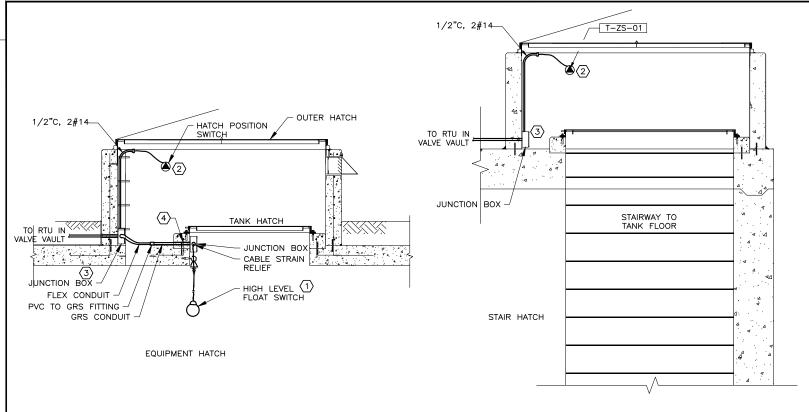
PRAFTED KBH CHECKED KBH SEPT. 2022 REVISIONS

SHOWN

SOUTH JORDAN CITY
1600 WEST TOWNE CENTER DRIVE
SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4 MG TANK ELECTRICAL ENCLOSURE ARRANGEMENTS

E - 5.1



TANK HATCH SWITCH INSTALLATION

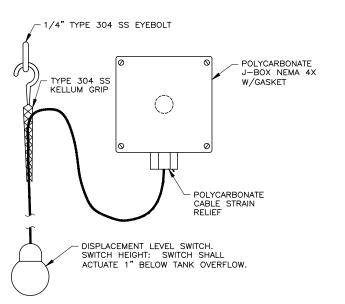




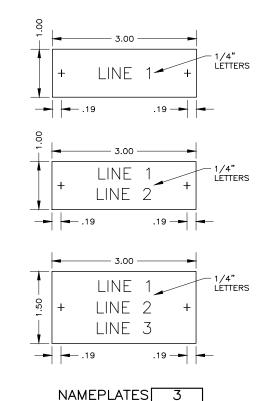




REVISIONS



FLOAT SWITCH INSTALLATION



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708 EAST 50 SOUTH AMERICAN FORK, UT 84003

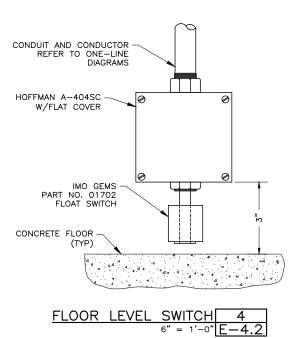
HPE PROJECT:22.049 FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST

GENERAL NOTES:

STANDARD ELECTRICAL DETAILS. HATCH CONSTRUCTION MAY NOT MATCH. MODIFY AS REQUIRED.

SHEET KEYNOTES:

- 1. HEIGHT OF LEVEL SWITCH SHALL BE PROVIDED DURING
- 2. TWO HATCH POSITION SWITCHES SHOWN IN THIS PHOTO. CONTRACTOR SHALL INSTALL ONLY ONE POSITION SWITCH ON THE PRIMARY HATCH DOOR. PLUNGER SWITCH SHALL BE ACTUATED WITH HATCH HOLD-OPEN BRACKET WHEN HATCH IS
- 3. LOCATE ALL J-BOXES ON SECURE SIDE OF HATCH.
- 4. SEAL CONDUIT PENETRATION WITH SEALANT.



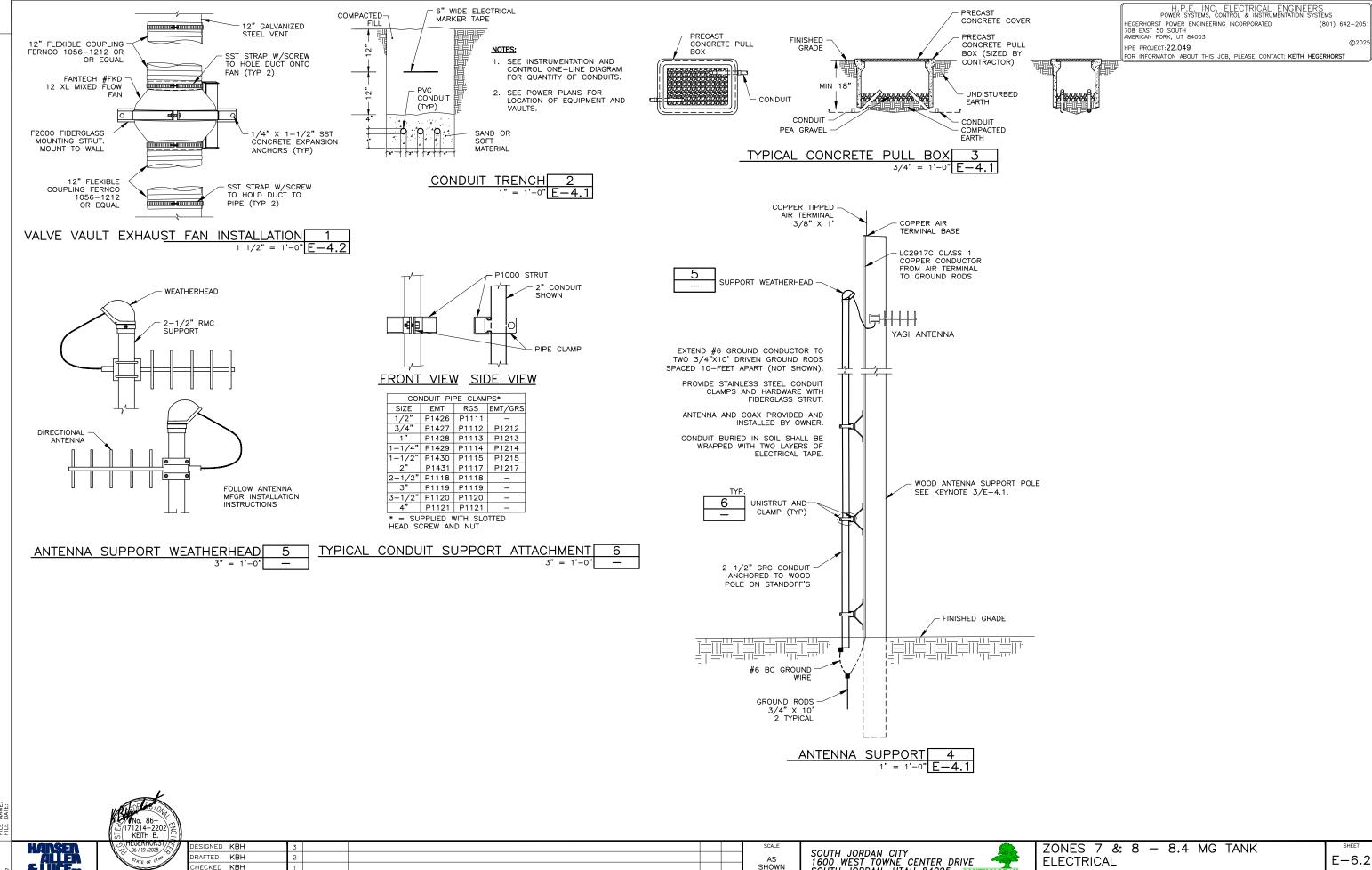
HANSEN ALLEY

PROJECT ENGINEER

RAFTED KBH HECKED **KBH** SEPT. 2022 SHOWN

SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4 MG TANK **ELECTRICAL** DETAILS SHEET



PROJECT ENGINEER

HECKED KBH SEPT. 2022 REVISIONS 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

DETAILS SHEET 2



TYPICAL MILBANK

PEDESTAL PHOTO

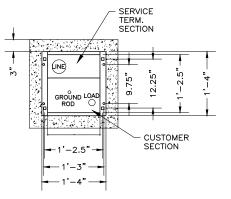


3" RECOMMENDED MIN. FOUNDATION EXTENSION ALL SIDES.

6-INCH RECOMMENDED MINIMUM FOUNDATION DEPTH BELOW GRADE

36" MIN. PEDESTAL CLEARANCE TYPICAL FRONT & BACK REQUIRED PER N.E.C. 110-16

(4) 5/8-11 X 8 (450mm 16UNC) ANCHOR BOLTS RECOMMENDED

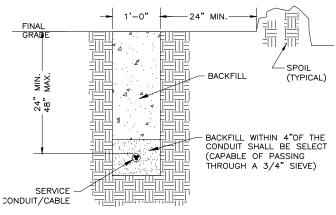


MOUNTING BASE DETAIL

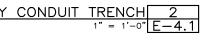
☐ PEDESTAL MOUNTING HOLES

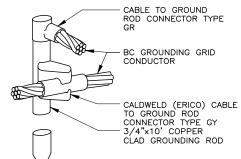
O ANCHOR BOLT MOUNTING
HOLES

- 18"

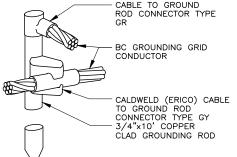


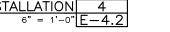
RMP PRIMARY CONDUIT TRENCH









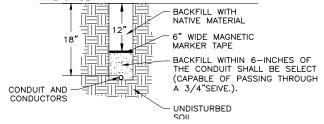


708 EAST 50 SOUTH AMERICAN FORK, UT 84003 HPE PROJECT:22.049 FOR INFORMATION ABOUT THIS JOB, PLEASE CONTACT: KEITH HEGERHORST FINAL GRADE - BACKFILL WITH NATIVE MATERIAL

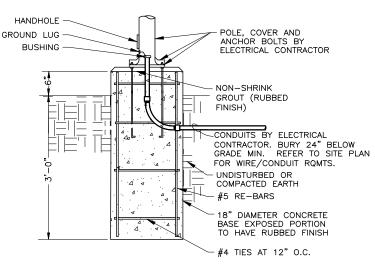
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POLE BASE DETAIL

12"1/4" DEMAND METER RESET COVER WITH WINDOW FULLY HINGED METER SECTION COVER PADLOCK BKT. HINGED EXTERIOR EXTENDS THRU DOOR FOR DOOR SECURITY UTILITY TERMINATION LANDING HINGED DEADERONT LIFT OFF MAIN CB MINIMUM SERVICE 1" SLOPE CONCRETE GRADE FOUNDATION LOAD SERVICE CONDUITS CONDUIT FRONT SIDE GROUND ROD WITH GROUND

> METERING PEDESTAL 1" = 1'-0" E-4.1

PROJECT ENGINEER

ESIGNED **KBH** RAFTED KBH HECKED KBH SEPT. 2022 REVISIONS SOUTH JORDAN CITY

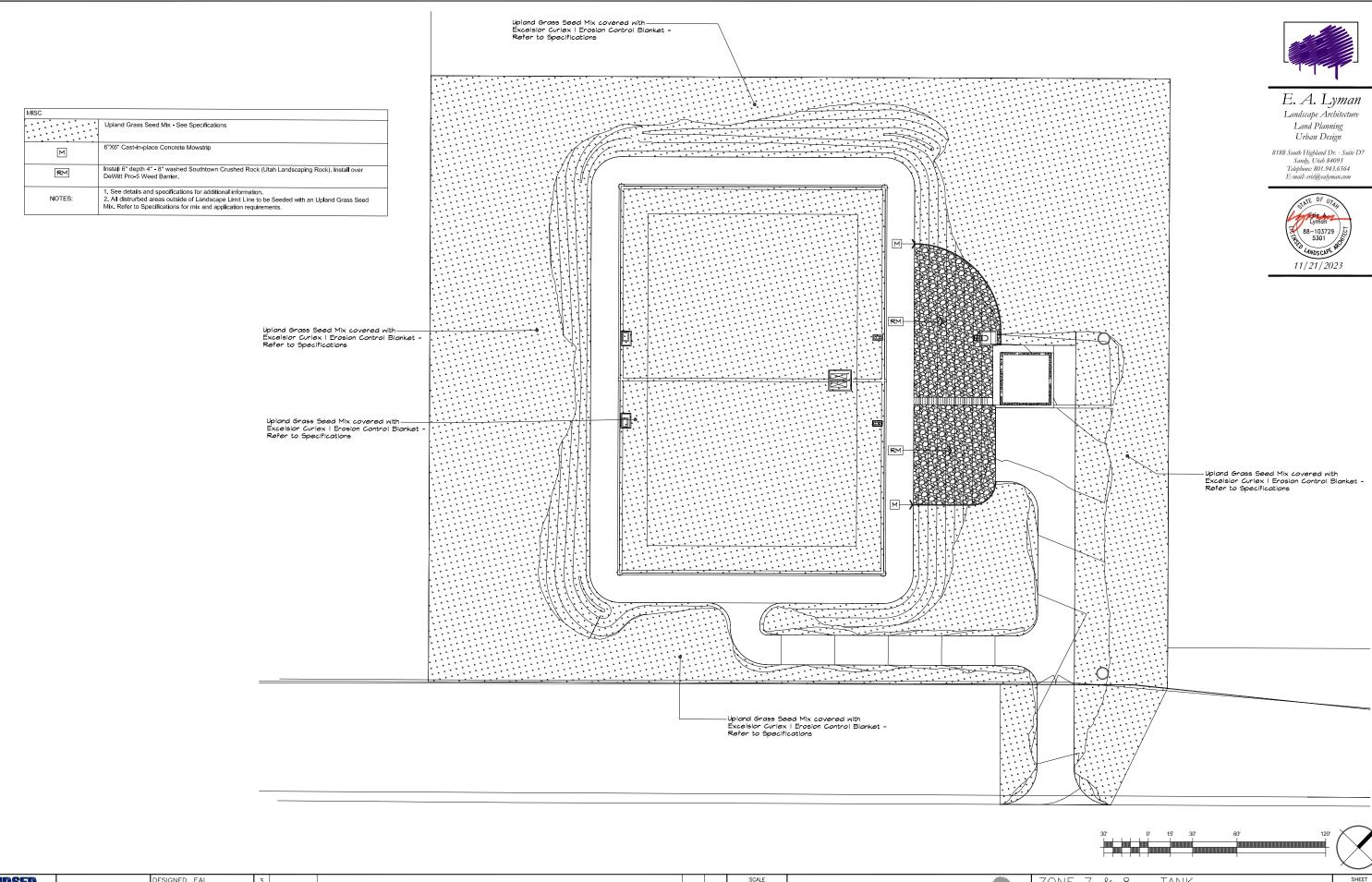
1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN

ZONES 7 & 8 - 8.4 MG TANK **ELECTRICAL** DETAILS SHEET 3

E - 6.3

HANSEN ALLEY

SHOWN



HARSER ALLER & LUCEnc ENGINEERS

 SOUTH JORDAN CITY 1600 WEST TOWNE CENTER DRIVE SOUTH JORDAN, UTAH 84095 SOUTH JORDAN ZONE 7 & 8 — TANK LANDSCAPE LANDSCAPE PLAN

