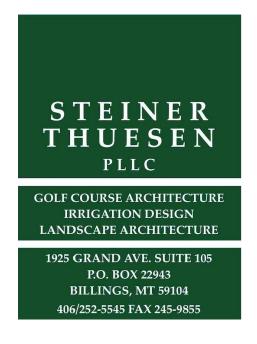


CONSTRUCTION PLANS FOR SHERIDAN COUNTY BROOKS STREET GREENSPACE SHERIDAN, WYOMING JULY 2022





surveyors • planners • scientists 1470 Sugarland Drive, Suite 1, Sheridan, WY 82801 **&** 307.672.9310 **@** www.m-m.net



CONSTRUCTION PLANS JULY 2022



CIVIL DESIGN MORRISON MAIERLE TIM S. BRUGGER, P.E. 1470 SUGARLAND DR., SUITE 1 SHERIDAN, WYOMING 82801 PH: (307) 672-9310



LANDSCAPE ARCHITECT **STEINER THUESEN PLLC** NATHAN STEINER, ASLA 1925 GRAND AVE., SUITE 105 BILLINGS, MONTANA 59102 PH: (406) 252-5545



ELECTRICAL DESIGN MORRISON MAIERLE JEFFREY KRAFT, P.E. 315 N. 25TH ST., SUITE 102 BILLINGS, MONTANA 59101 PH: (406) 656-6000



MECHANICAL DESIGN MORRISON MAIERLE RYAN THOMSON, P.E. 315 N. 25TH ST., SUITE 102 BILLINGS, MONTANA 59101

PH: (406) 656-6000



TIM BRUGGER, P.E. **PROJECT MANAGER**

VICINITY MAP

NOT TO SCALE



QUALITY ASSURANCE

TIM BRUGGER, P.E.
PROJECT MANAGER
GERA FEIST
OFFICE QUALITY ASSURANCE COORDINATO
JEFF FECK, P.E.
PEER REVIEWER

6/24/2022 Q.A. APPROVAL DATE (001218) 22-20

PROJECT LOCATION

Q.A. PROJECT NUMBER

SET NO. _____

MORRISON-MAIERLE PROJECT NO. 6017.002

GENERAL NOTES

GENERAL:

- 1. ALL QUANTITIES ARE CONSIDERED APPROXIMATE.
- 2. THE CONTRACTOR SHALL INCLUDE ALL MATERIALS, TOOLS, EQUIPMENT. LABOR AND APPURTENANT ITEMS TO COMPLETE THE WORK WITHIN THE BID PRICE.
- 3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY OF SHERIDAN, EMERGENCY MEDICAL SERVICES. THE FIRE DEPARTMENT, LAW ENFORCEMENT, LOCAL MEDIA AND SCHOOLS TO ALL ROAD CLOSURES AND ALTERNATE ROUTES. IN ADDITION, THE CONTRACTOR SHALL ADVERTISE ANY PUBLIC ROAD CLOSURES AT LEAST 48 HOURS IN THE LOCAL NEWSPAPER PRIOR TO ANY CLOSURE.
- 5. LEGAL LOAD LIMIT REQUIREMENTS SHALL BE ENFORCED ON ALL STATE HIGHWAYS, CITY STREETS, AND COUNTY ROADS.
- 6. CONTRACTOR SHALL PROVIDE HIS OWN WATER FOR DUST CONTROL AND COMPACTION.
- 7. THE CONTRACTOR SHALL NOT USE WATER FROM FIRE HYDRANTS FOR ANY PURPOSE UNLESS PRIOR APPROVAL IS OBTAINED FROM SHERIDAN COUNTY AND THE CONTRACTOR PROVIDES AN APPROVED BACKFLOW PREVENTION DEVICE WITH WATER METER AND PROVISIONS FOR PAYMENT OF WATER USED.

RIGHT-OF-WAY SURVEY

1. THE BASE MAPPING WAS DEVELOPED BY A FIELD SURVEY OF SURFACE FEATURES AND UTILITY LOCATES. CONTRACTOR SHALL MAKE ACTUAL FIELD INVESTIGATIONS TO ASSURE HIMSELF OF THE SITE CONDITIONS.

TRAFFIC CONTROL:

- 1. CONSTRUCTION SHALL NOT COMMENCE ON THE PROJECT UNTIL NECESSARY CONSTRUCTION WARNING SIGNS AND TRAFFIC CONTROL ARE IN PLACE AND APPROVED BY THE OWNER AND THE AUTHORITY HAVING JURISDICTION.
- 2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR ANY ROAD CLOSURE, TO BE APPROVED BY THE OWNER AND THE AUTHORITY HAVING JURISDICTION. ALL TRAFFIC CONTROL SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. TWO-WAY TRAFFIC SHALL BE MAINTAINED ON BURKITT AND WHITNEY AT ALL TIMES.

EXISTING UTILITIES:

- 1. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE BASED ON FIELD LOCATES AND RECORDS OF SHERIDAN COUNTY AND/OR UTILITY COMPANIES. FIELD VERIFICATION OF BURIED GAS, ELECTRIC, TELEPHONE, WATER, SEWER AND CABLE TV LINES ARE BY ELECTRONIC OR MAGNETIC DETECTION METHODS. ALL UTILITY LOCATIONS ARE SUBJECT TO THE ACCURACY OF THE LOCATION METHOD, AND SUBJECT TO RELOCATION FROM THE TIME THAT THE DRAWINGS WERE PREPARED. NO EXCAVATION WAS PERFORMED.
- 2. NOT ALL UTILITIES ARE SHOWN IN THE STREET OR UTILITY PROFILE DRAWINGS.
- 3. CONTRACTOR SHALL CONTACT SHERIDAN COUNTY AND/OR UTILITY COMPANIES 48 HOURS PRIOR TO TRENCHING WITHIN 10 FEET OF ALL OVERHEAD POLES TO ALLOW FOR POLES TO BE SECURED.
- 4. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, AND SHALL NOT BACKFILL UNTIL THE CONTRACTOR HAS MADE A RECORD OF ITS TYPE. SIZE AND LOCATION.

PROPOSED UTILITIES:

- 1. ONLY CITY OF SHERIDAN PERSONNEL SHALL OPERATE EXISTING WATERLINE VALVES.
- 2. CONTRACTOR SHALL RESPECT ALL RIGHT-OF-WAY AND EASEMENT BOUNDARIES SHOWN. ALL WORK SHALL BE DONE WITHIN THESE BOUNDARIES. ANY WORK OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT SHALL ONLY BE DONE AFTER RECEIVING WRITTEN PERMISSION OF THE LANDOWNER. THIS PERMISSION SHALL BE OBTAINED BY THE CONTRACTOR.
- 3. DEFLECTIONS OF PIPE AT THE JOINT SHALL NOT EXCEED MANUFACTURER'S REQUIREMENTS. NO MECHANICAL MEANS OF DEFLECTION SHALL BE ALLOWED, AND MANUFACTURER'S REQUIREMENTS ON DEFLECTION SHALL NOT BE EXCEEDED.
- 4. WHENEVER BURIED UTILITIES ARE EXPECTED TO BE ENCOUNTERED NEAR A NEW UTILITY INSTALLATION, THE CONTRACTOR SHALL EXCAVATE AHEAD TO DETERMINE THE DEPTH AND LOCATION OF THE UTILITY. SUFFICIENT CLEARANCE BETWEEN THE UTILITIES SHALL BE MAINTAINED.

SAFETY:

- 1. GENERAL: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE, TEMPORARY EXCAVATIONS AND SHALL SHORE, SLOPE, OR BENCH THE SIDES OF THE EXCAVATIONS AS REQUIRED TO MAINTAIN STABILITY OF BOTH THE EXCAVATION SIDES AND BOTTOM. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS.
- 2. EXCAVATION AND SLOPES: IN NO CASE SHALL SLOPE HEIGHT, SLOPE INCLINATION. OR EXCAVATION DEPTH. INCLUDING UTILITY TRENCH EXCAVATION DEPTH, EXCEED THOSE SPECIFIED IN LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS. SPECIFICALLY, THE CURRENT OSHA HEALTH AND SAFETY STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926 SHALL BE FOLLOWED. IT IS THE ENGINEER'S UNDERSTANDING THAT THESE REGULATIONS ARE BEING STRICTLY ENFORCED AND IF THEY ARE NOT CLOSELY FOLLOWED, THE CONTRACTOR COULD BE LIABLE FOR SUBSTANTIAL PENALTIES.
- 3. CONSTRUCTION SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL ALSO BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCING OF CONSTRUCTION OPERATIONS.
- UNDER NO CIRCUMSTANCES SHALL THE INFORMATION PROVIDED BE INTERPRETED TO MEAN THAT THE ENGINEER IS ASSUMING RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY OR THE CONTRACTOR'S ACTIVITIES. SUCH RESPONSIBILITY IS NOT BEING IMPLIED AND SHALL NOT BE INFERRED.

STREETS

1. CONTRACTOR SHALL NOT DISTURB EXISTING CURB AND GUTTER UNLESS DIRECTED BY THE ENGINEER OR SHOWN ON THE PLANS. ANY DAMAGE TO THE EXISTING CURB AND GUTTER SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

RESTORATION:

1. ALL AREAS OF DISTURBANCE SHALL BE RECLAIMED TO A CONDITION THAT IS EQUAL TO OR BETTER THAN THE ORIGINAL. TOPSOIL SHALL BE STRIPPED AND LEGALLY DISPOSED OF OFF-SITE.

BUY AMERICA REQUIREMENT:

ALL MATERIALS USED ON THIS PROJECT ARE SUBJECT TO THE FEDERAL BUY AMERICA ACT, AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL PROJECT SUBMITTALS MUST BE ACCOMPANIED WITH THE APPROPRIATE BUY AMERICA CERTIFICATION OR IF MATERIALS CANNOT MEET THE REQUIREMENT, CONTRACTOR SHALL SUBMIT A WAIVER AS DESCRIBED IN THE SPECIFICATIONS. ALL BUY AMERICAN REQUIREMENTS MUST BE LISTED IN THE PRODUCT DATA SUBMITTAL OR SUBMITTALS WILL BE REJECTED. THE PRODUCTS AND MANUFACTURERS SCHEDULED IN THE DRAWINGS ARE FOR BASIS OF DESIGN ONLY AND DO NOT NECESSARILY CONFORM TO THE BUY AMERICAN REQUIREMENTS.

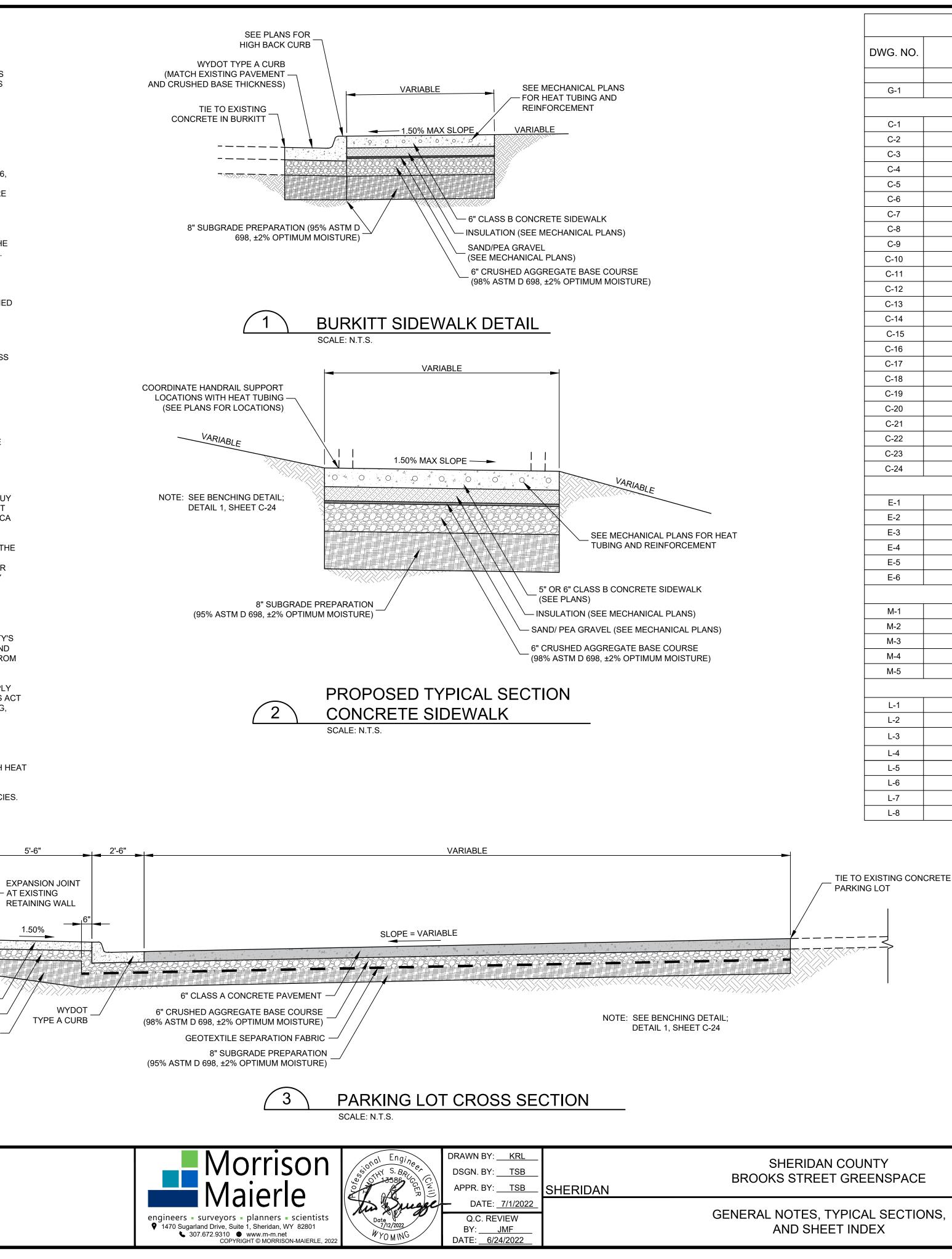
PROJECT NOTES

- . STAGING AREA TO BE LOCATED AT THE WESTERN EDGE OF THE COUNTY'S BURKITT PARKING LOT. CONTRACTOR TO COORDINATE WITH OWNER AND ENGINEER ON FINAL LOCATION. STAGING AREA TO BE BLOCKED OFF FROM PUBLIC ACCESS AND KEPT CLEAN THROUGHOUT CONSTRUCTION.
- 2. ALL CONCRETE, STAIRWAYS, RAMPS, AND SITE FEATURES SHALL COMPLY WITH ALL PROVISIONS OF THE CURRENT AMERICANS WITH DISABILITIES ACT (ADA) AND US ACCESS BOARD GUIDELINES AS SET FORTH IN THE ADAAG, PROWAG AND OUTDOOR DEVELOPED AREAS GUIDE
- 3. IMPORTED SUITABLE FILL MATERIAL SHALL BE FROM CONTRACTOR FURNISHED SOURCE.
- 4. COORDINATE SITE FEATURE LOCATIONS TO BE SET IN CONCRETE WITH HEAT TUBING (SEE MECHANICAL PLANS).
- 5. REFER TO SPECIAL PROVISIONS FOR COMPACTION TESTING FREQUENCIES.



5" CLASS B CONCRETE SIDEWALK 6" CRUSHED AGGREGATE BASE COURSE -**8" SUBGRADE PREPARATION** (95% ASTM D 698, ±2% OPTIMUM MOISTURE)

VERIFY SCALE!	REVISIONS				
	NO.	DESCRIPTION	BY	DATE	
THESE PRINTS MAY BE REDUCED. LINE BELOW MEASURES ONE INCH					
ON ORIGINAL DRAWING.					
MODIFY SCALE ACCORDINGLY!					
PLOTTED BY:TIM BRUGGER ON Jul/11/2022					



SHEET INDEX		
WG. NO.	SHEET TITLE	
	COVER SHEET	
G-1	GENERAL NOTES, TYPICAL SECTIONS, AND SHEET INDEX	
ł	CIVIL SHEET INDEX	
C-1	SITE DEMOLITION PLAN	
C-2	SITE LAYOUT PLAN	
C-3	SITE LAYOUT PLAN - CONCRETE JOINTING PLAN	
C-4	SITE GRADING AND DRAINAGE PLAN - NORTH	
C-5	SITE GRADING AND DRAINAGE PLAN - SOUTH	
C-6	RETAINING WALL DETAILS	
C-7	RETAINING WALL DETAILS	
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C-16	WYDOT STANDARD PLANS	
C-17	WYDOT STANDARD PLANS	
C-18	WYDOT STANDARD PLANS	
C-19	WYDOT STANDARD PLANS	
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C-21	WYDOT STANDARD PLANS	
C-22	CITY OF SHERIDAN STANDARD DETAILS	
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E-4	ELECTRICAL SCHEDULES & DETAILS	
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L-4 L-5	PLANTING PLAN PLANTING DETAILS	
L-5 L-6	IRRIGATION PLAN	
L-0	IRRIGATION PLAN	

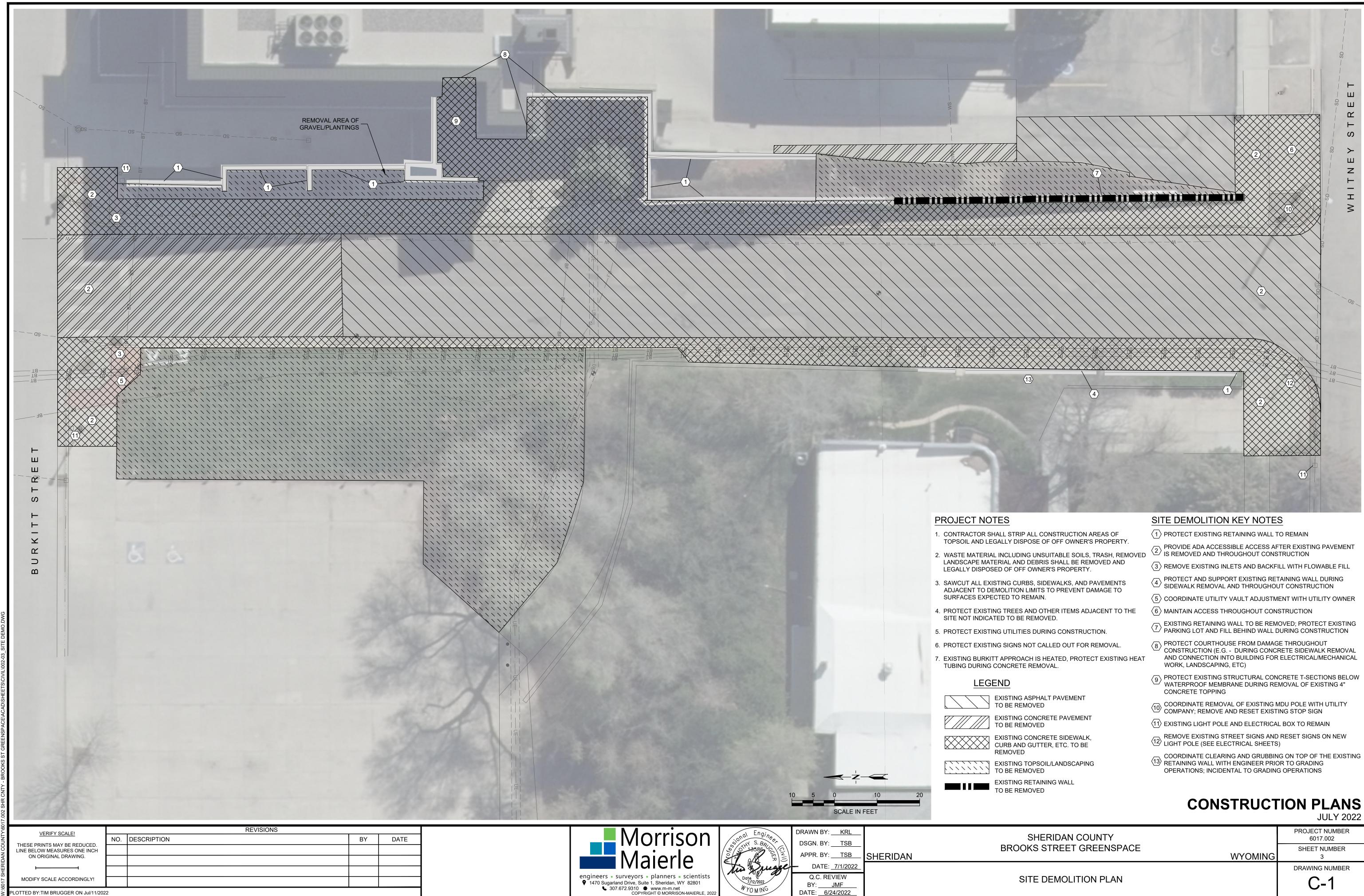
CONSTRUCTION PLANS JULY 2022

WYOMING

PROJECT NUMBER 6017.002 SHEET NUMBER

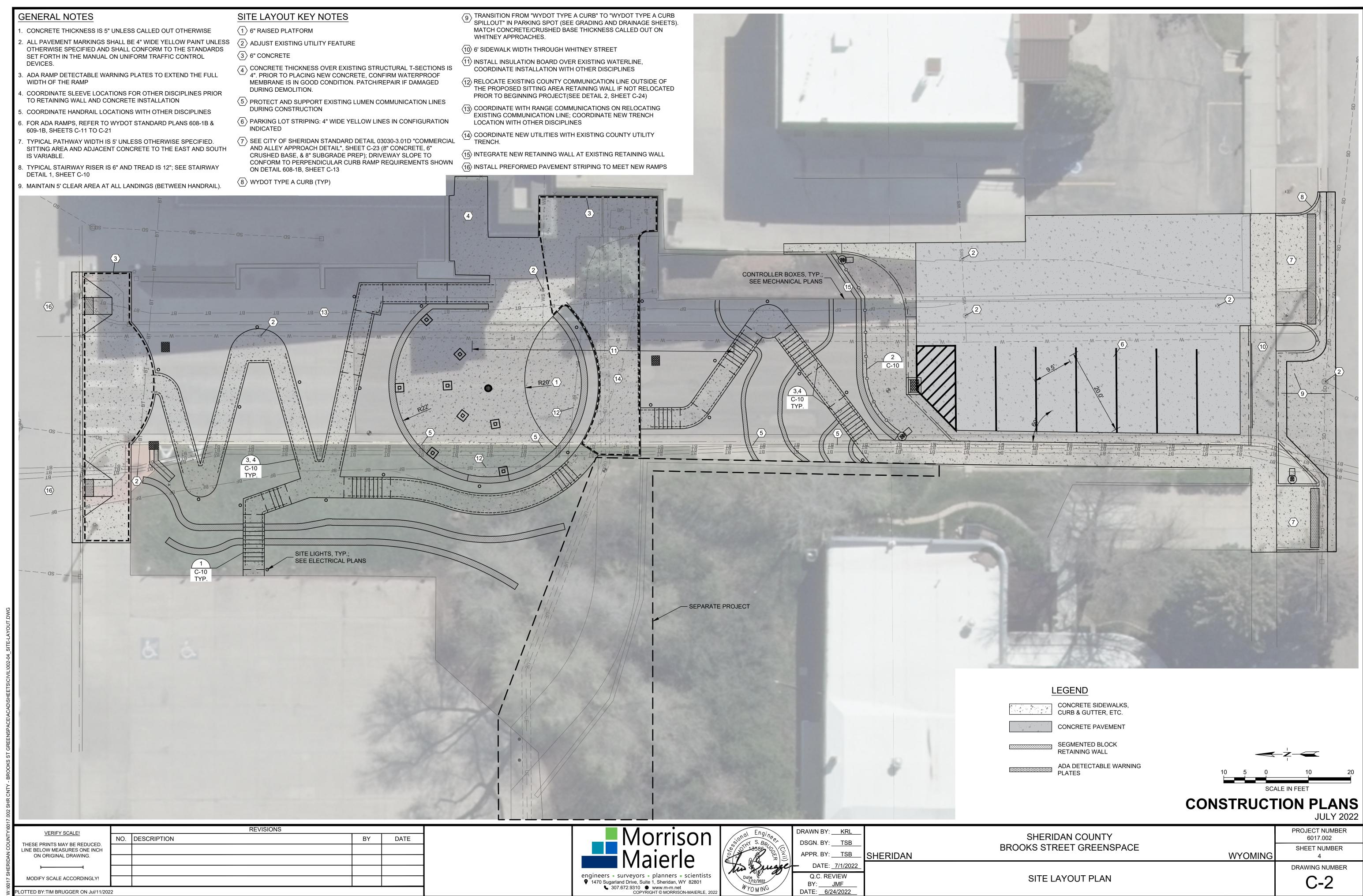
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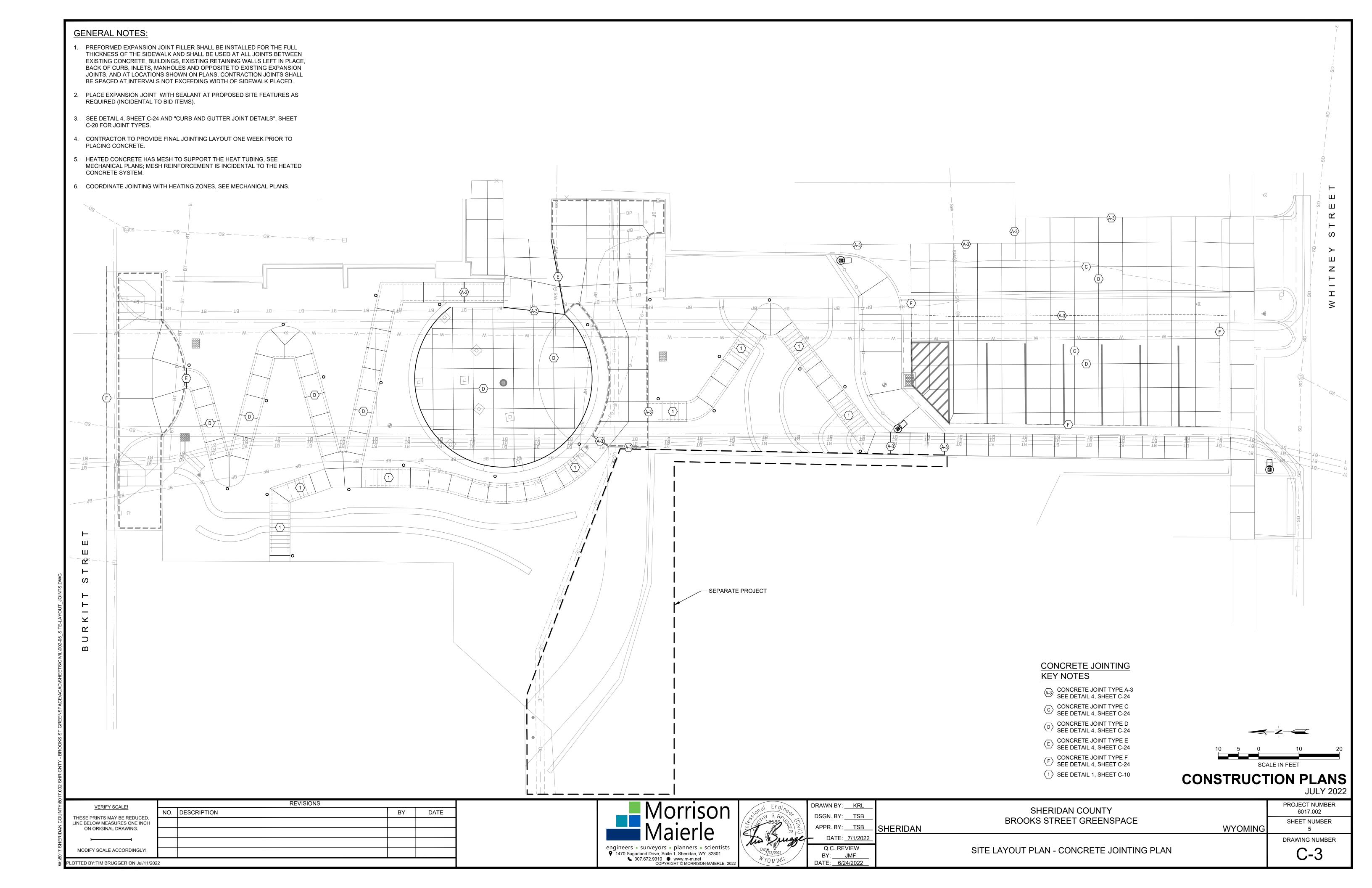
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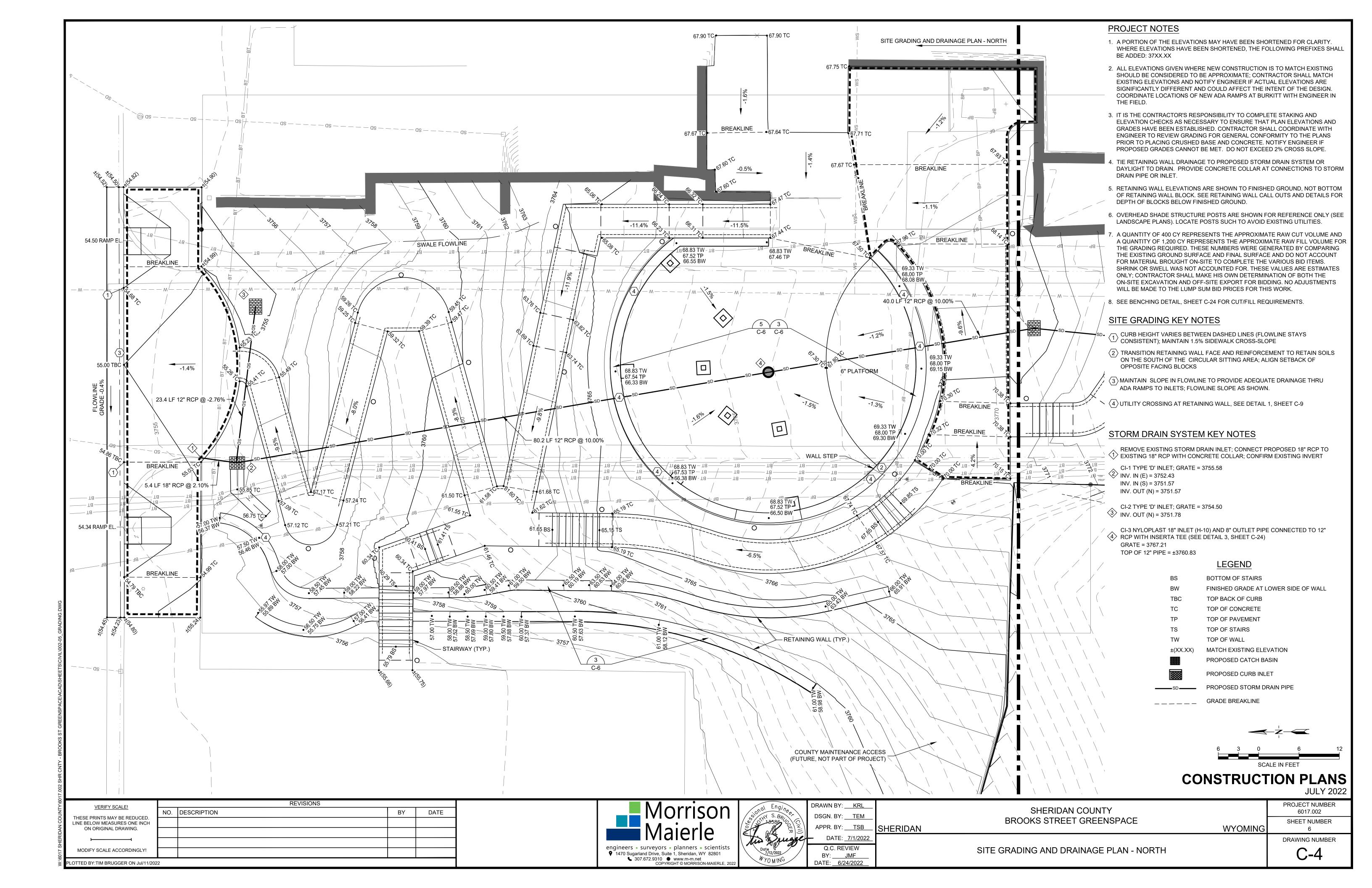


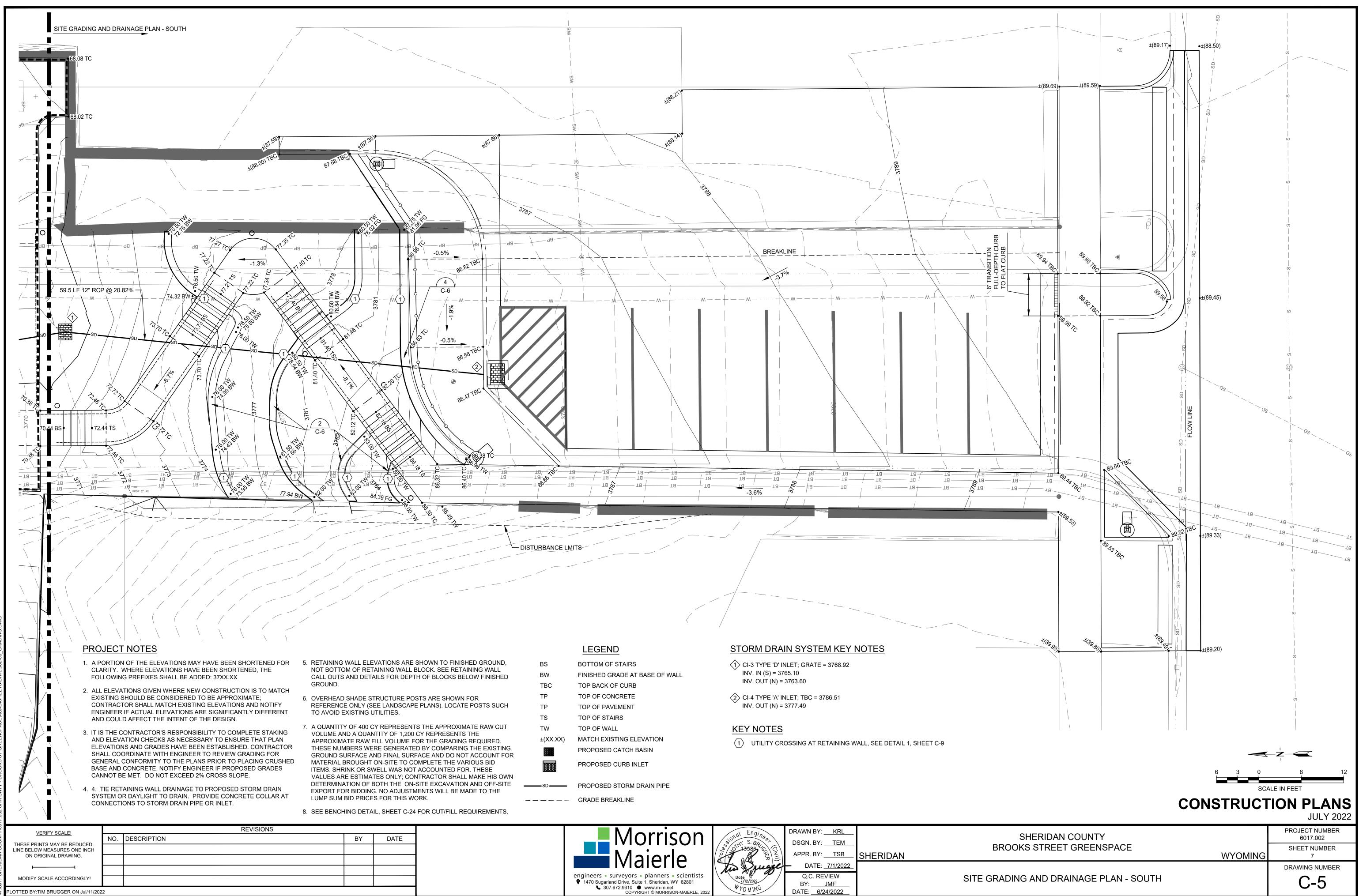
CONSTRUCT	ION PLANS

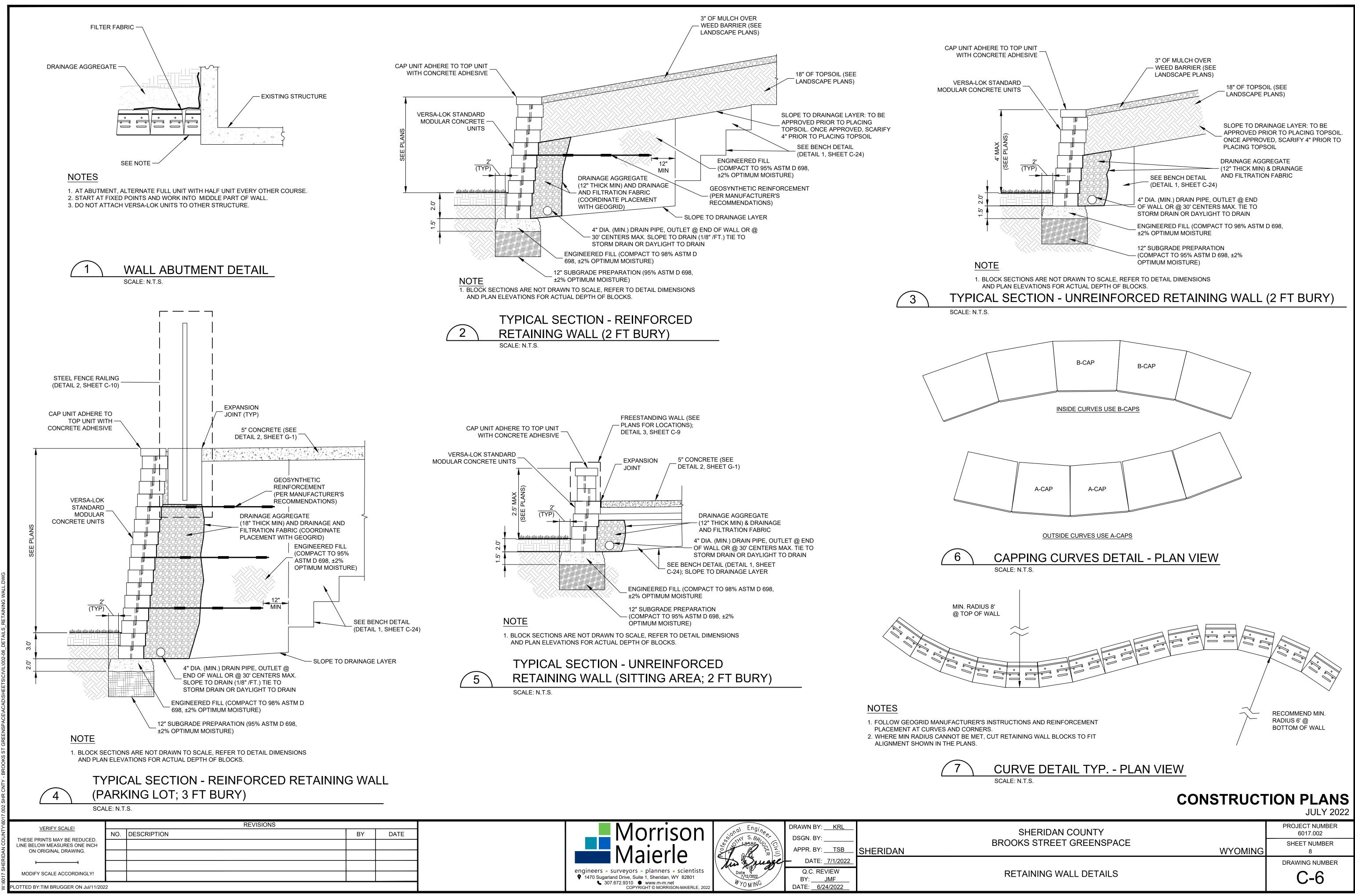
BROOKS STREET GREENSPACE	WYOMING
SHERIDAN COUNTY	

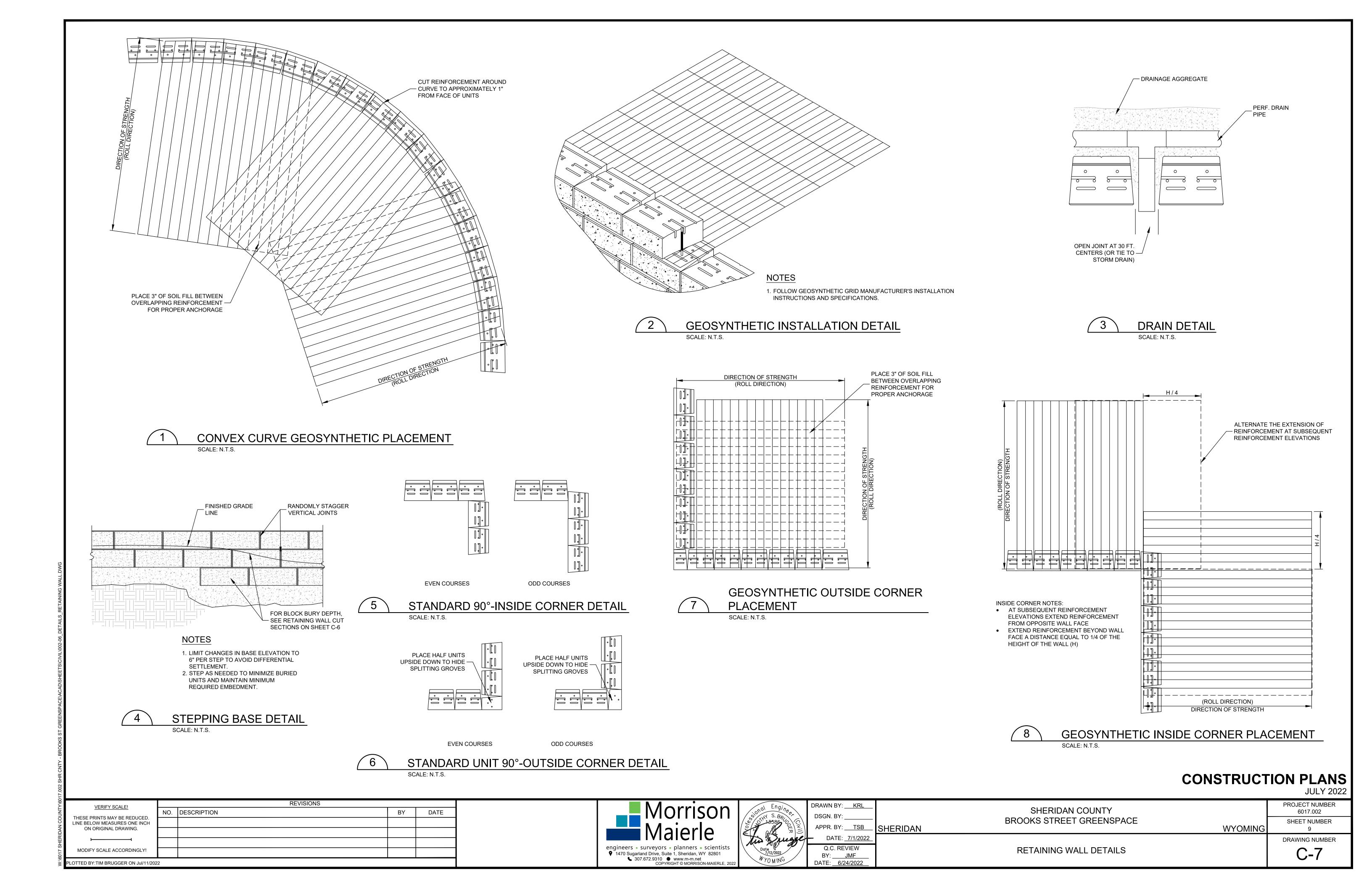


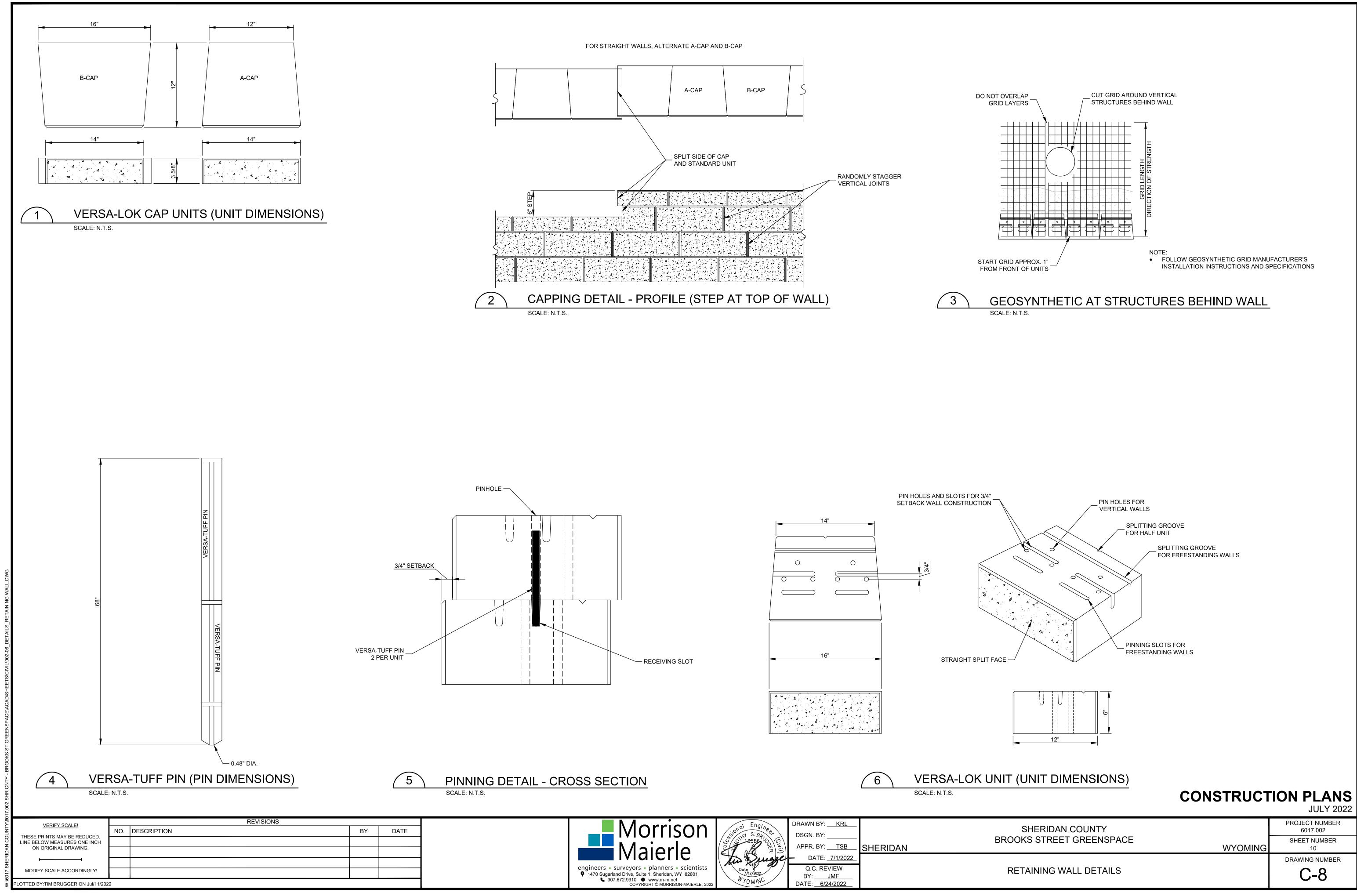




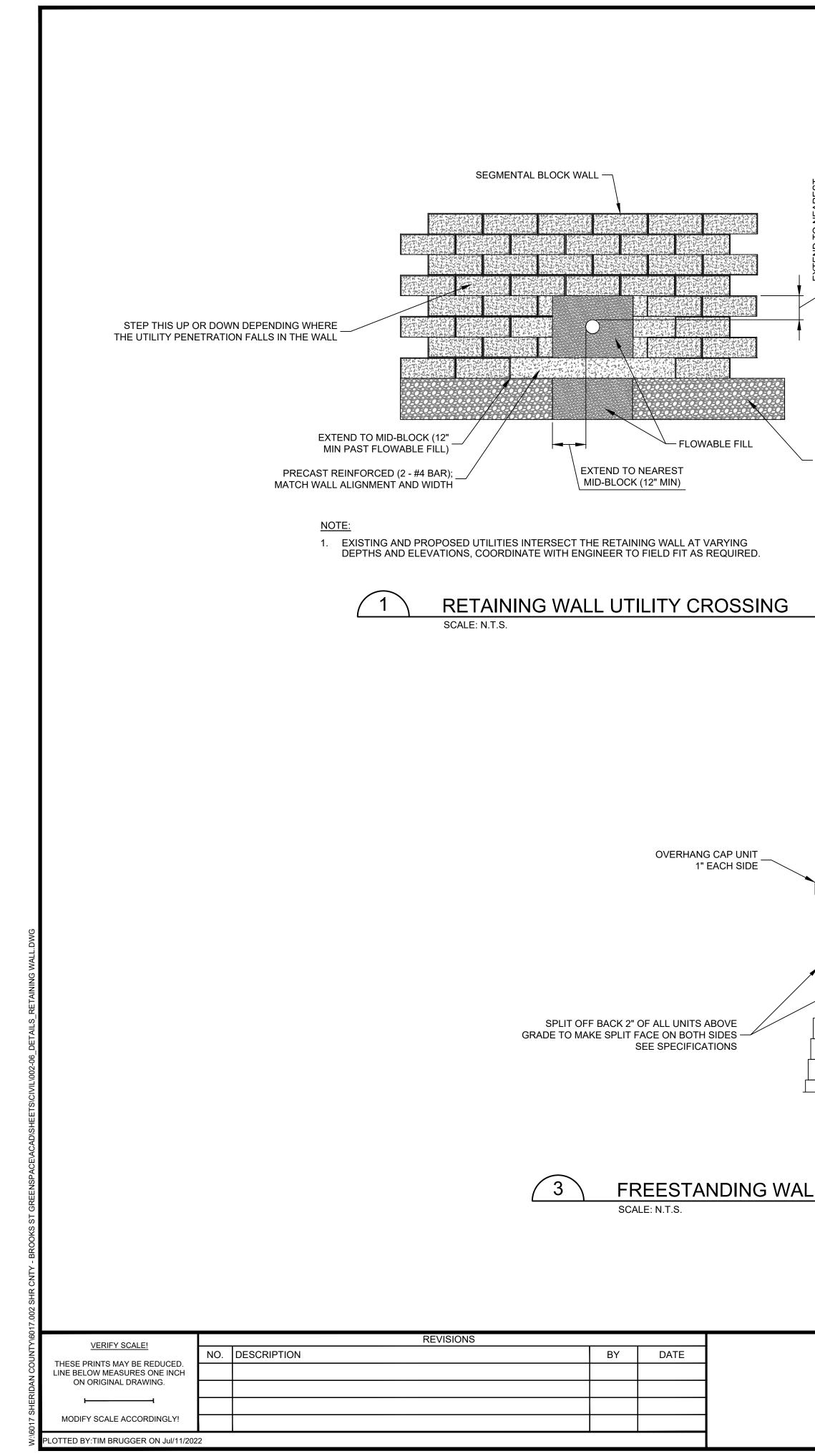






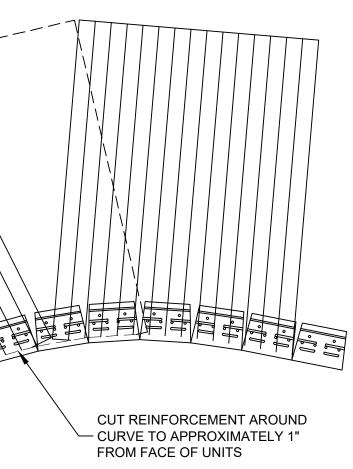


JULY 2022 PROJECT NUMBER 6017.002 SHEET NUMBER 10 DRAWING NUMBER **C-8**



ENGINEERED FILL (TYP); SE CUT SECTIONS, SHEET C-6)	RETAINING WALL
	2 GEOSYNTHETIC SCALE: N.T.S.
	O O O O O O
2'-6" MAX.	ODD COURSES
	EVEN COURSES
	CUT SLUG TO GET
<u>LL DETAIL</u>	4 FREESTANDING WALL PINNING DIAGRAI SCALE: N.T.S.
	Morrison Engineers BRAWN BY: KRL KRL Main and the second

ALTERNATE REINFORCEMENT PLACEMENT ON SUBSEQUENT REINFORCEMENT ELEVATIONS TO



IC PLACEMENT (CONCAVE CURVE)



TES

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AM



PROJECT NUMBER 6017.002

SHERIDAN COUNTY BROOKS STREET GREENSPACE

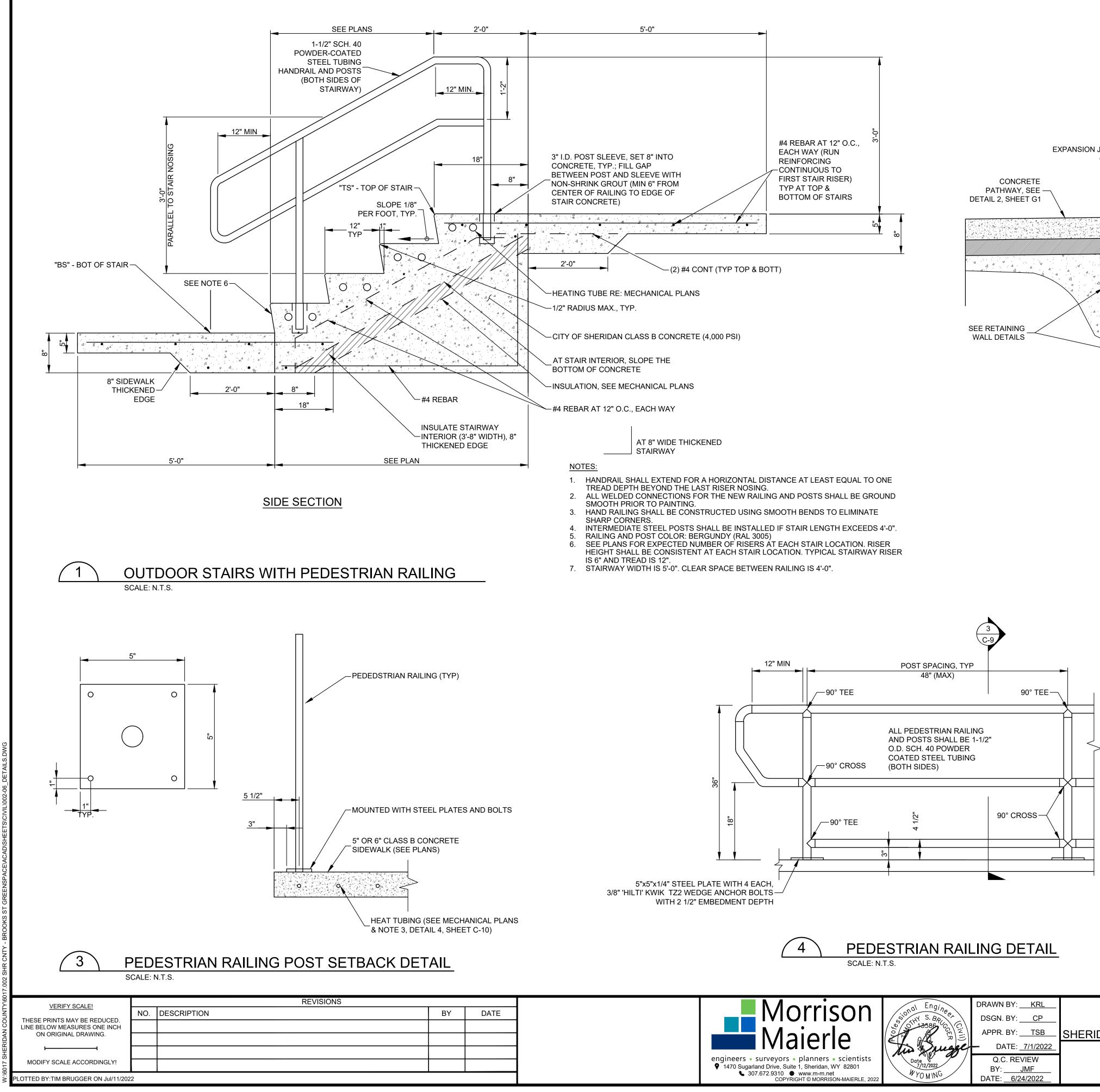
RETAINING WALL DETAILS

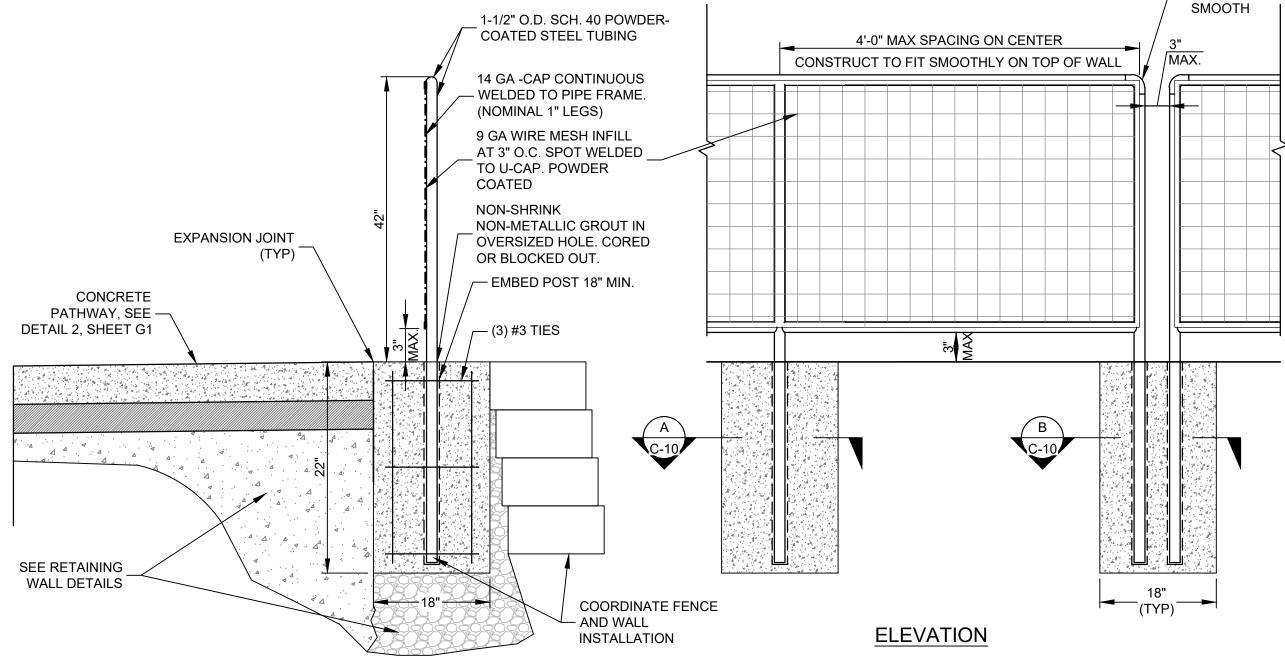
WYOMING

11 DRAWING NUMBER

SHEET NUMBER

C-9





SECTION

(4) #3 VERTICAL REBARS

#3 HORIZ. TIES @ 8" O.C. MAX

NOTES:

- CLEAR SPACE BETWEEN HANDRAILS IS 4'-0"
- RAILING AND POST COLOR: BERGUNDY (RAL 3005)
- SEE PLANS FOR LOCATIONS. RAILING SLOPE TO MATCH CONCRETE GRADE (KEEP RAILING PARALLEL TO CONCRETE); EXTEND HANDRAIL A MIN OF 12" PAST LAST POST (INTO LANDING) AT EACH END OF HANDRAIL

VN BY: <u>KRL</u>		
N. BY: <u>CP</u>		В
R. BY: <u>TSB</u>	SHERIDAN	D
DATE: <u>7/1/2022</u>		
Q.C. REVIEW Y: JMF		
E: 6/24/2022		

	CONSTRUCT	TION PLANS JULY 2022
SHERIDAN COUNTY BROOKS STREET GREENSPACE		PROJECT NUMBER 6017.002 SHEET NUMBER
FENCE AND RAILING DETAILS	WYOMING	12 DRAWING NUMBER

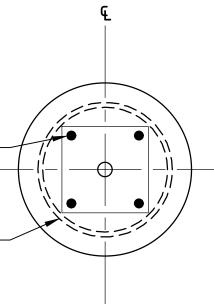
BASE PLATES AND ANCHOR BOLTS. COORDINATE DEPTH AND WIDTH OF SLEEVES WITH ENGINEER IN THE FIELD. THICKEN CONCRETE EDGE IF SLEEVING.

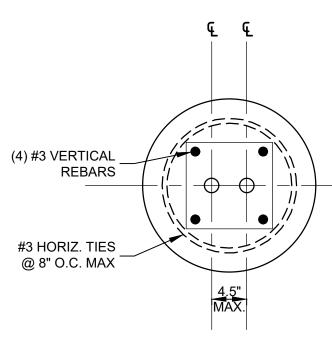
COORDINATE BASE PLATE BOLT INSTALLATION WITH HEAT TUBING AT THE CONTRACTOR'S OPTION, POSTS CAN BE SLEEVED IN CONCRETE IN LIEU OF

SEE WYDOT STANDARD DETAIL 608-1B, SHEET C-12 FOR HANDRAIL REQUIREMENTS





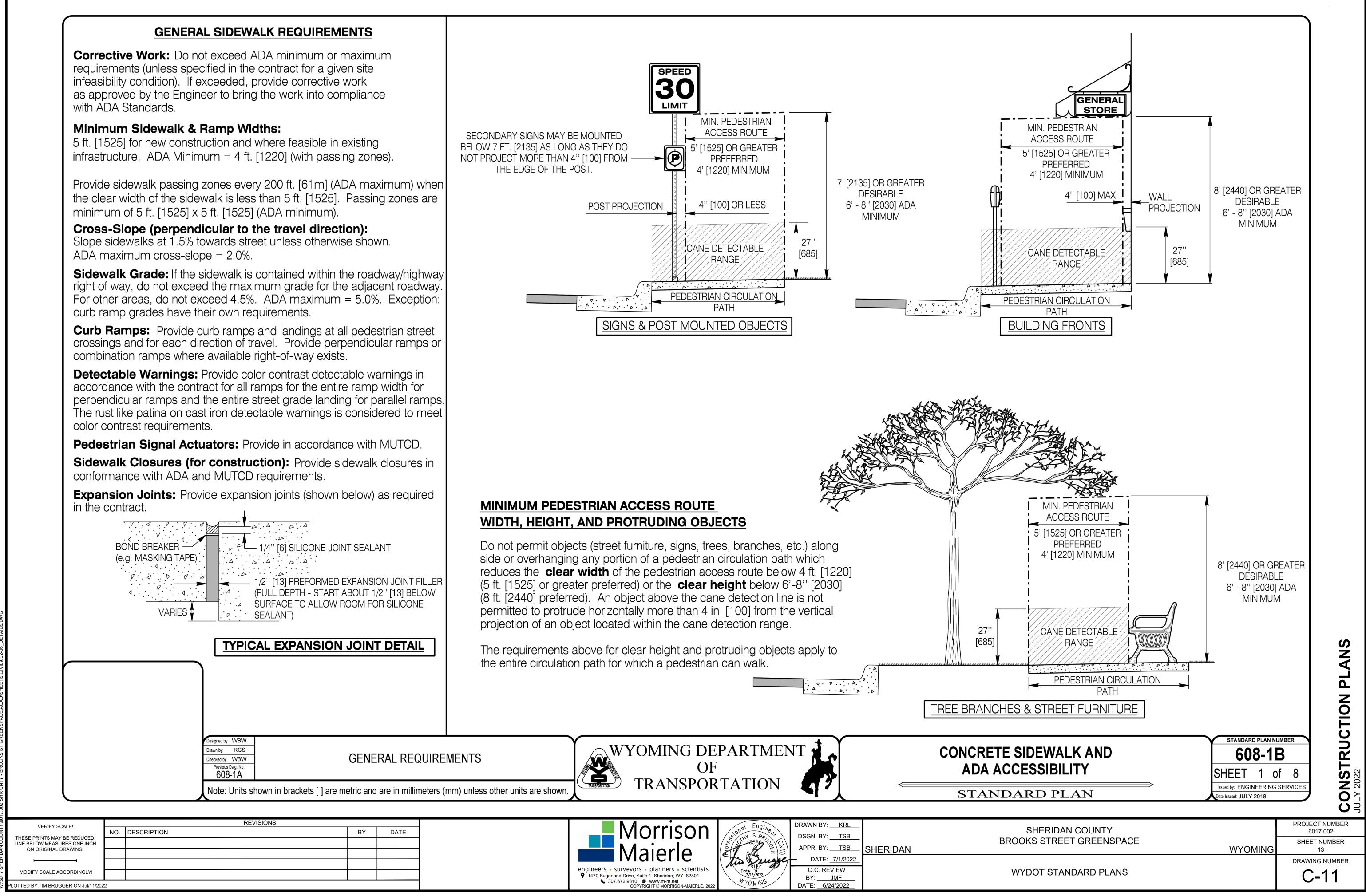


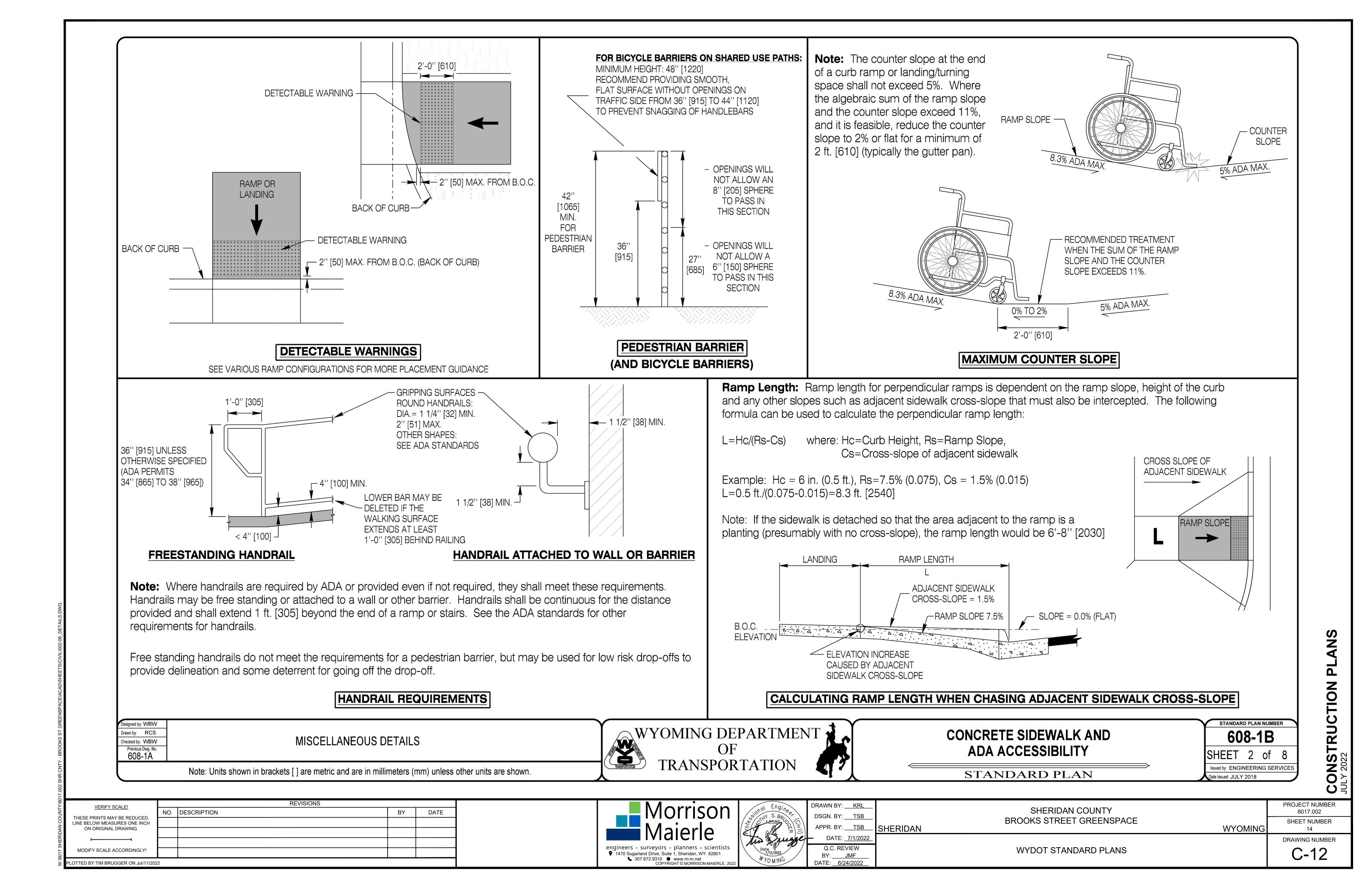


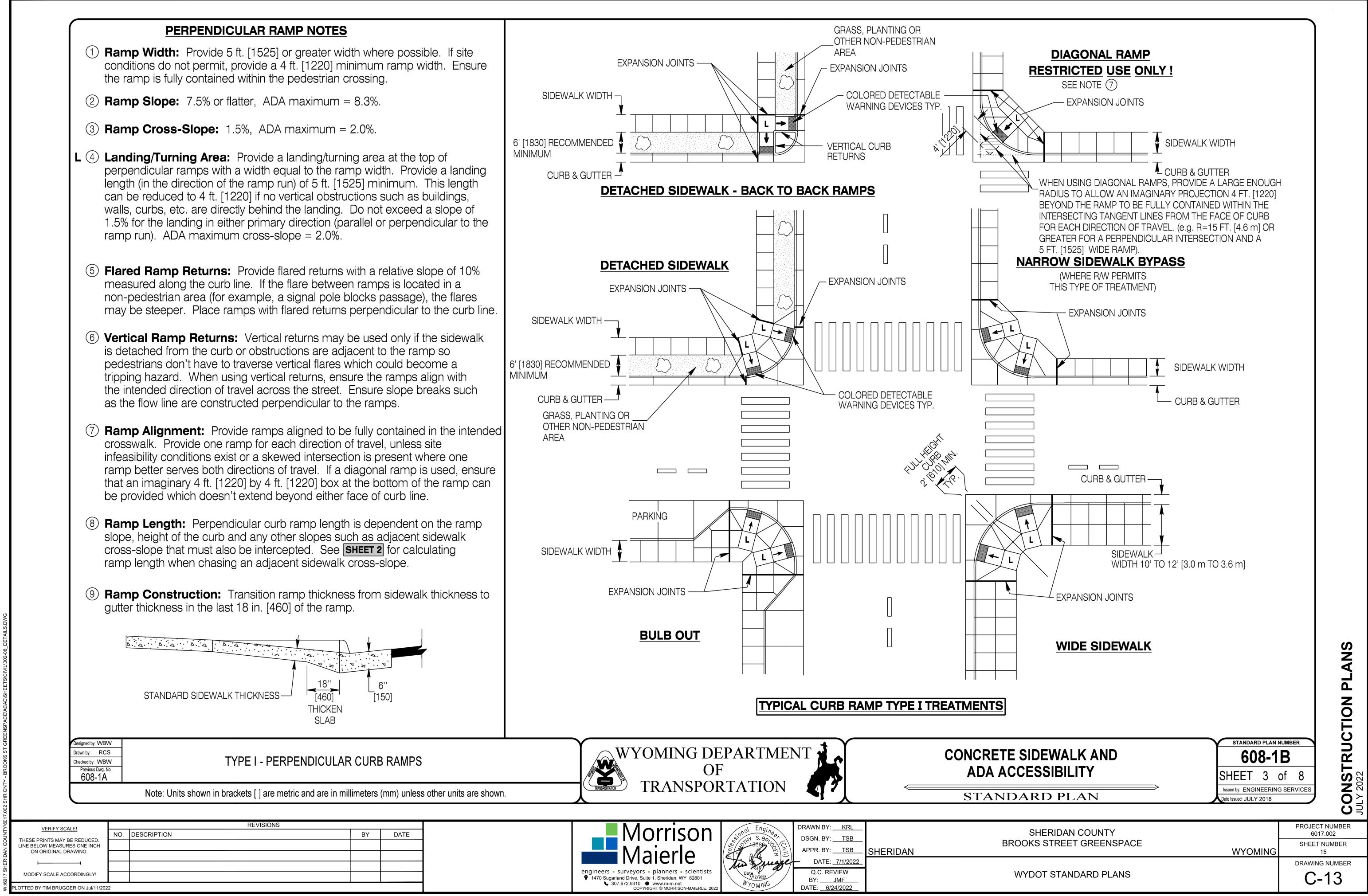
SECTION 'B'

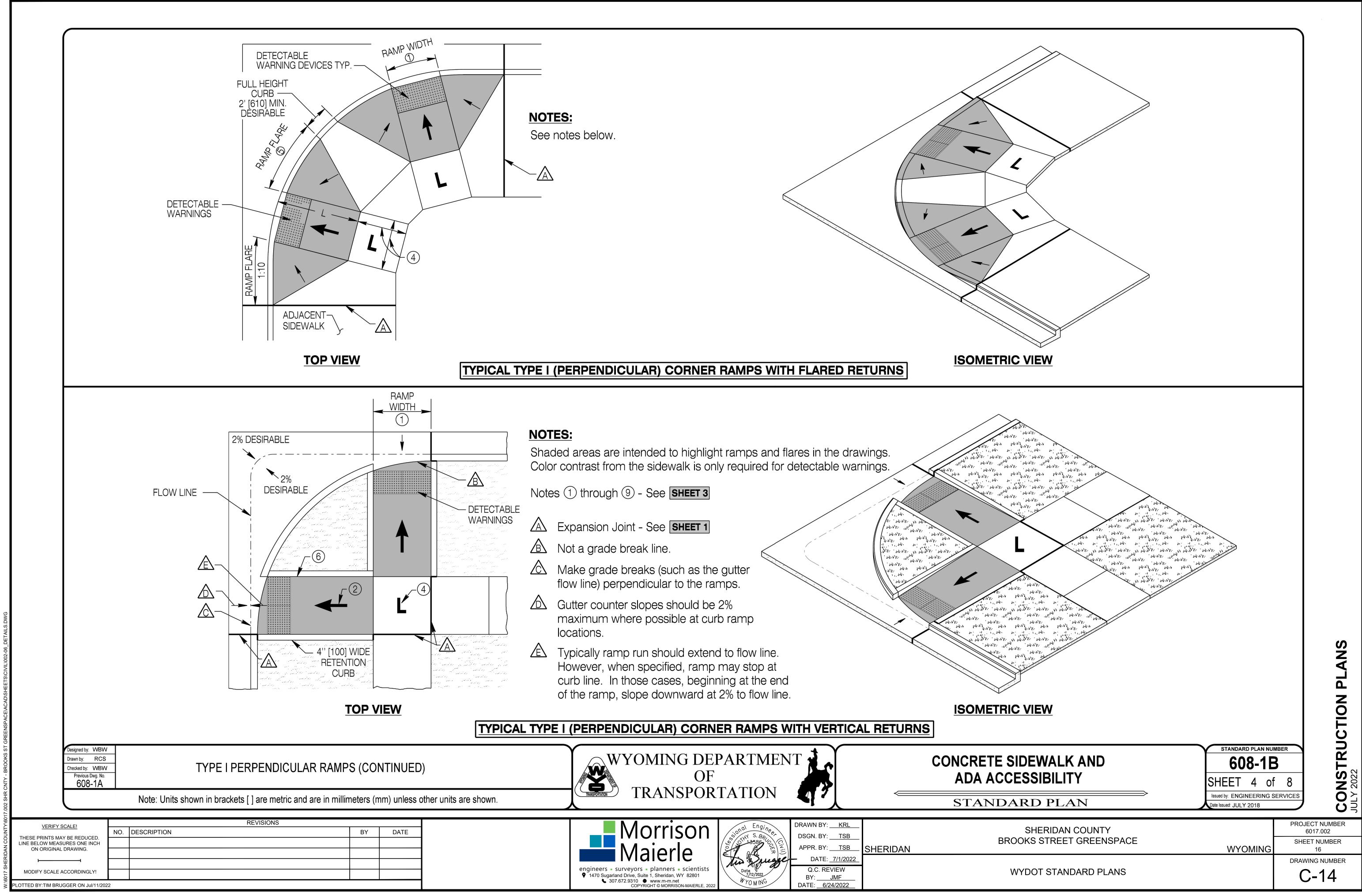
GENERAL NOTES POST, RAILING AND MESH COLOR: BERGUNDY (RAL 3005).
 MEASURE AND FABRICATE FENCE RAILING TO MATCH CURVATURE OF THE RETAINING WALL AND CHANGES IN ELEVATION.

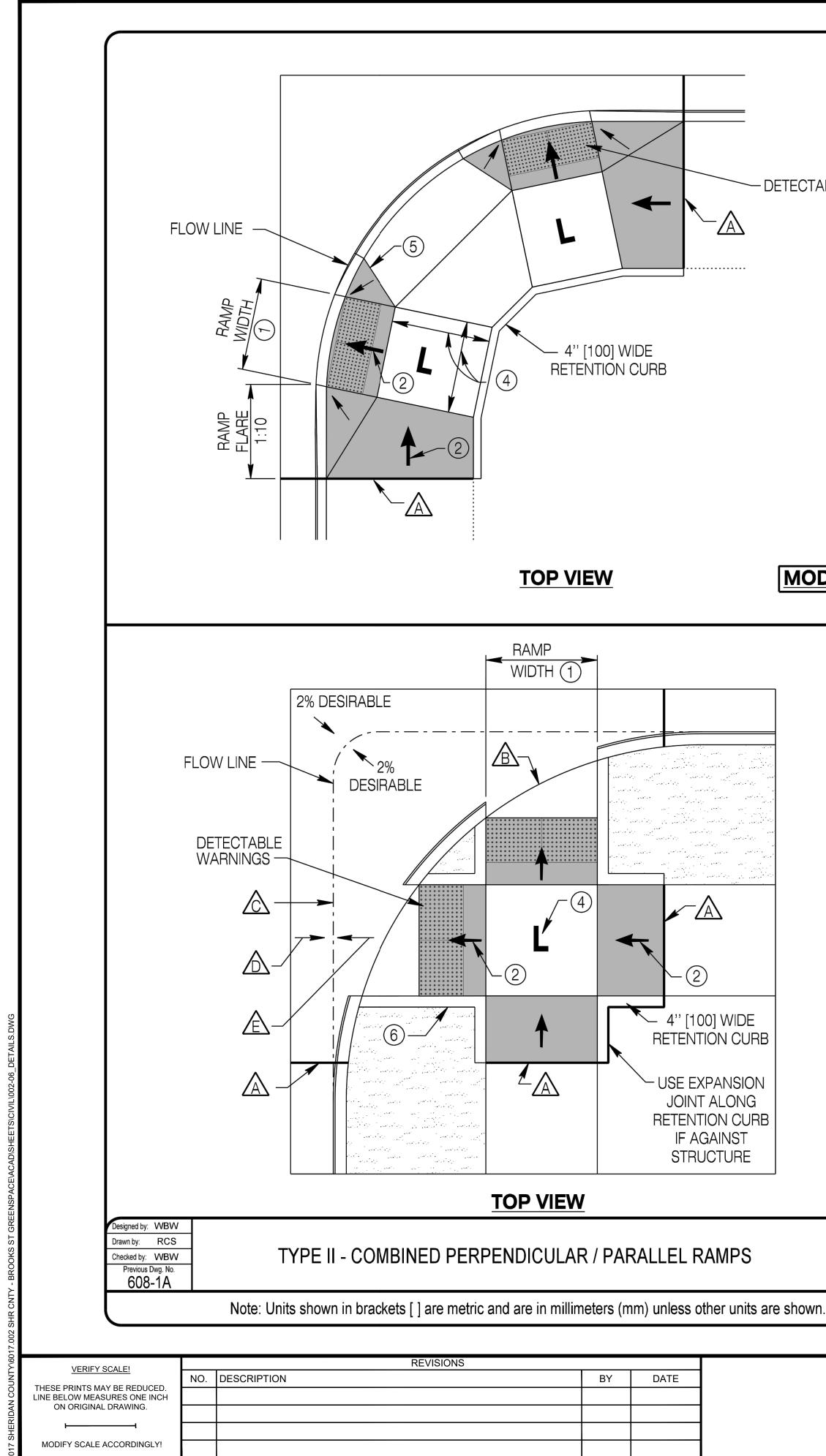
WELD-IN FITTINGS, GROUND











TED BY:TIM BRUGGER ON Jul/11/2022

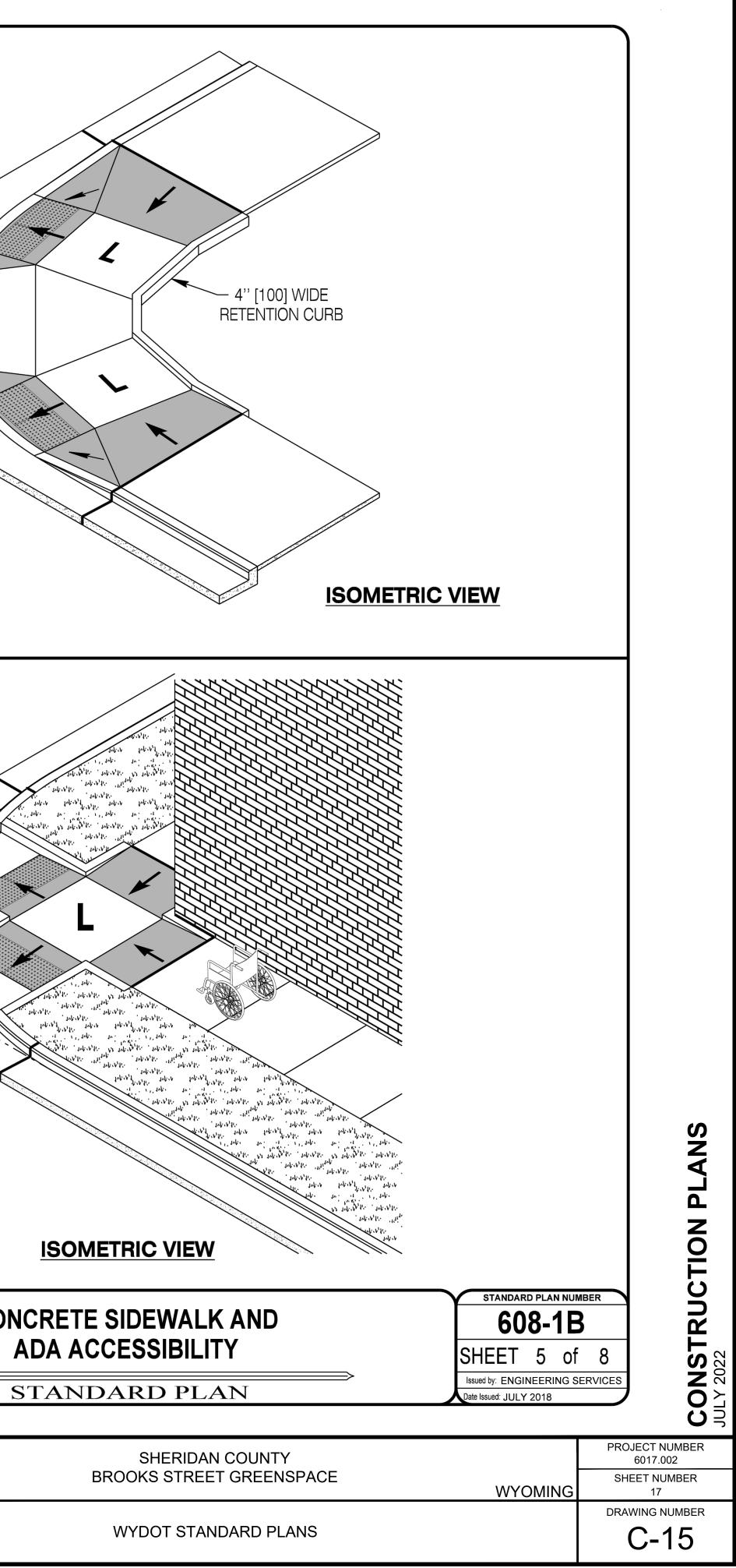
DETECTABLE WARNINGS

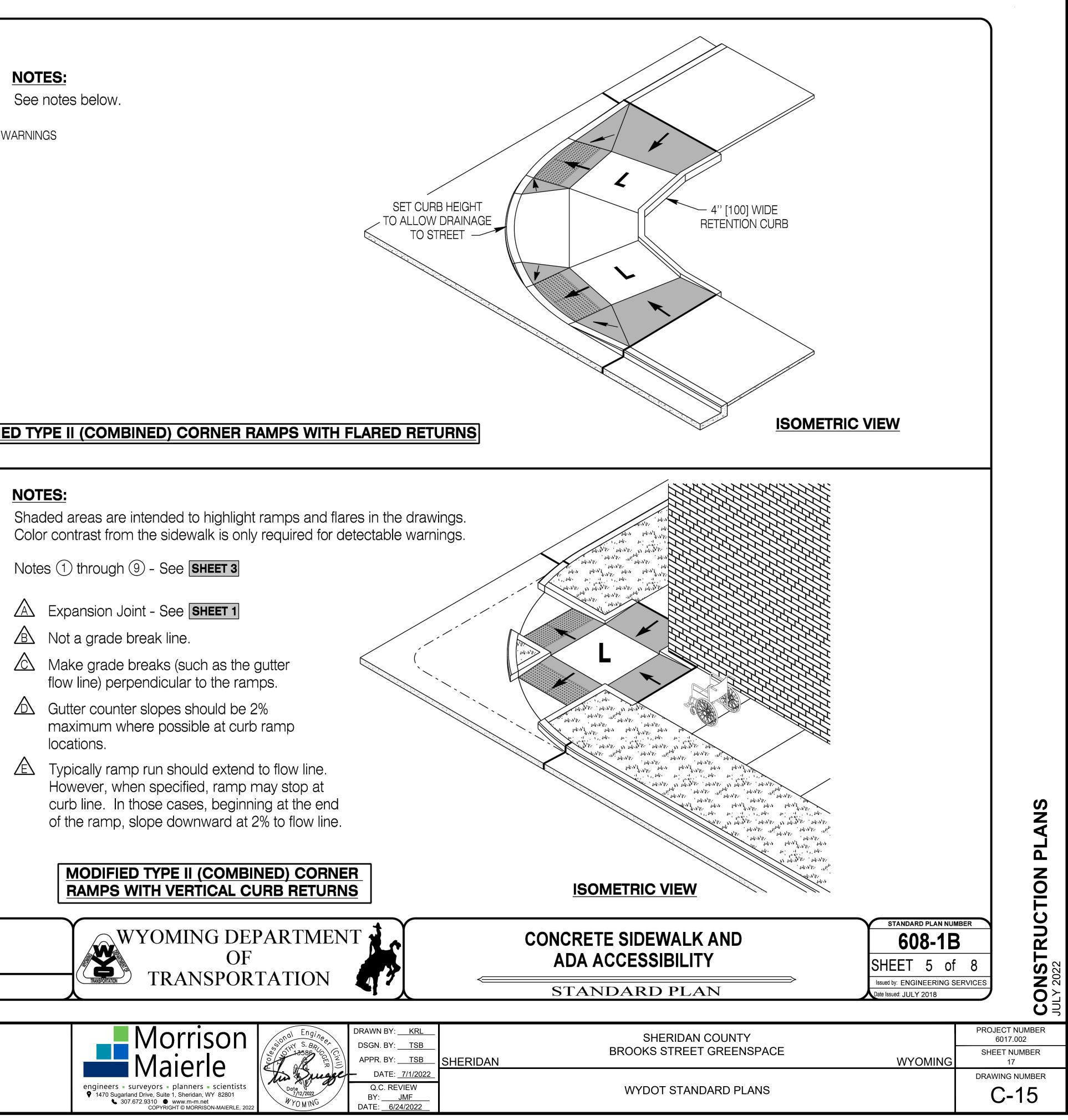
SET CURB HEIGHT TO ALLOW DRAINAGE TO STREET

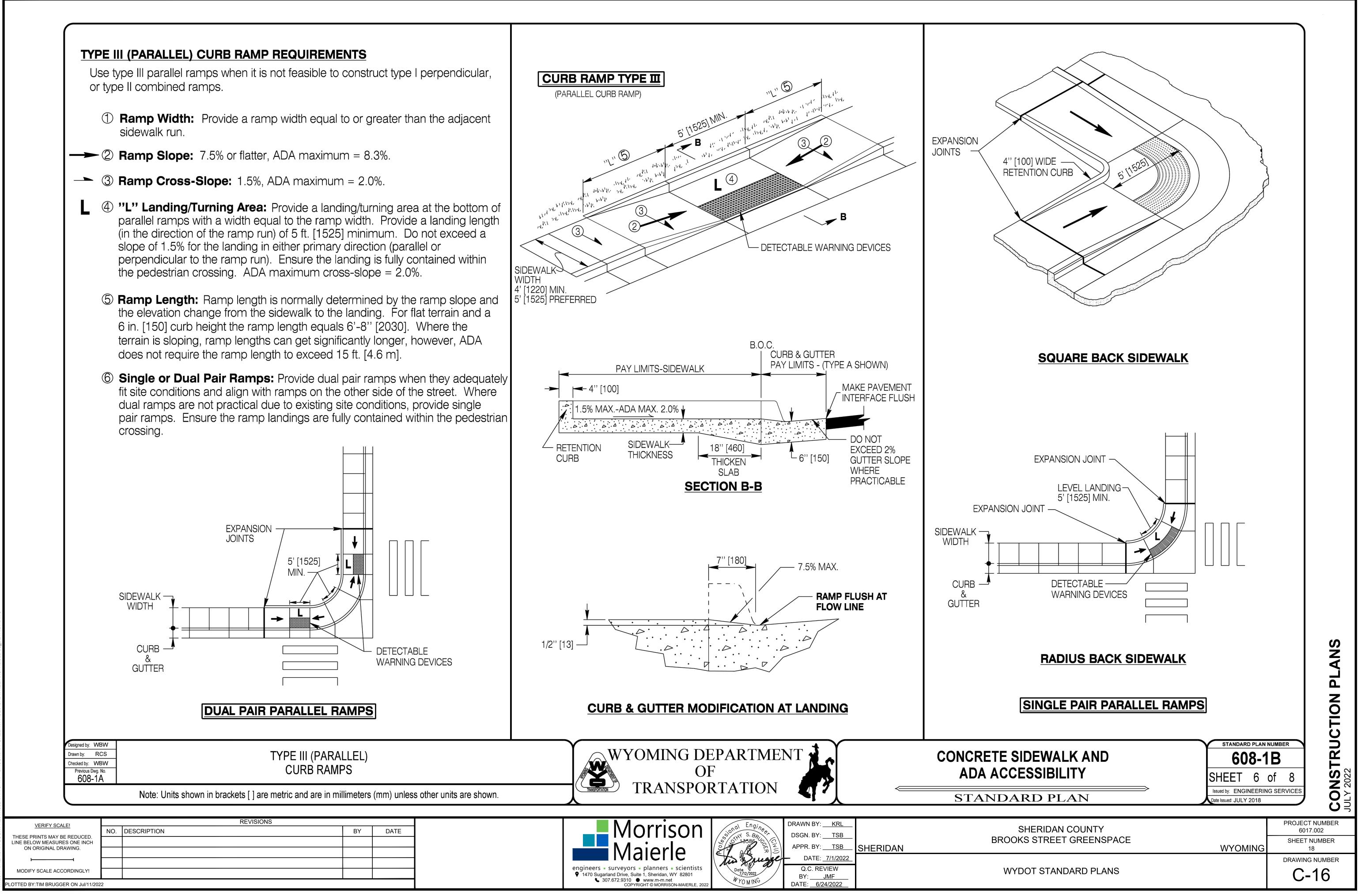
MODIFIED TYPE II (COMBINED) CORNER RAMPS WITH FLARED RETURNS

- flow line) perpendicular to the ramps.
- Gutter counter slopes should be 2% locations.
- However, when specified, ramp may stop at curb line. In those cases, beginning at the end of the ramp, slope downward at 2% to flow line.

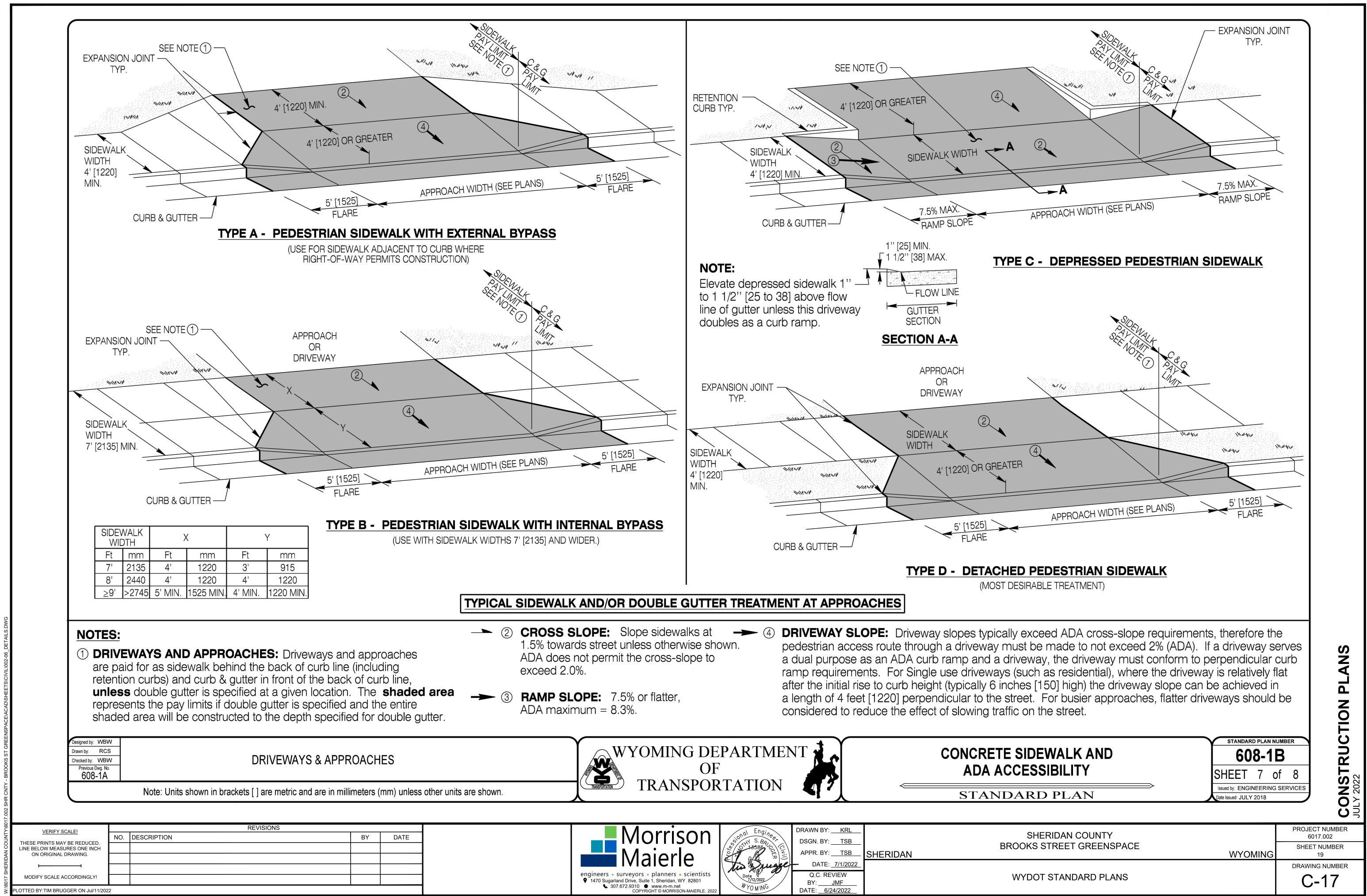
RAMPS WITH VERTICAL CURB RETURNS



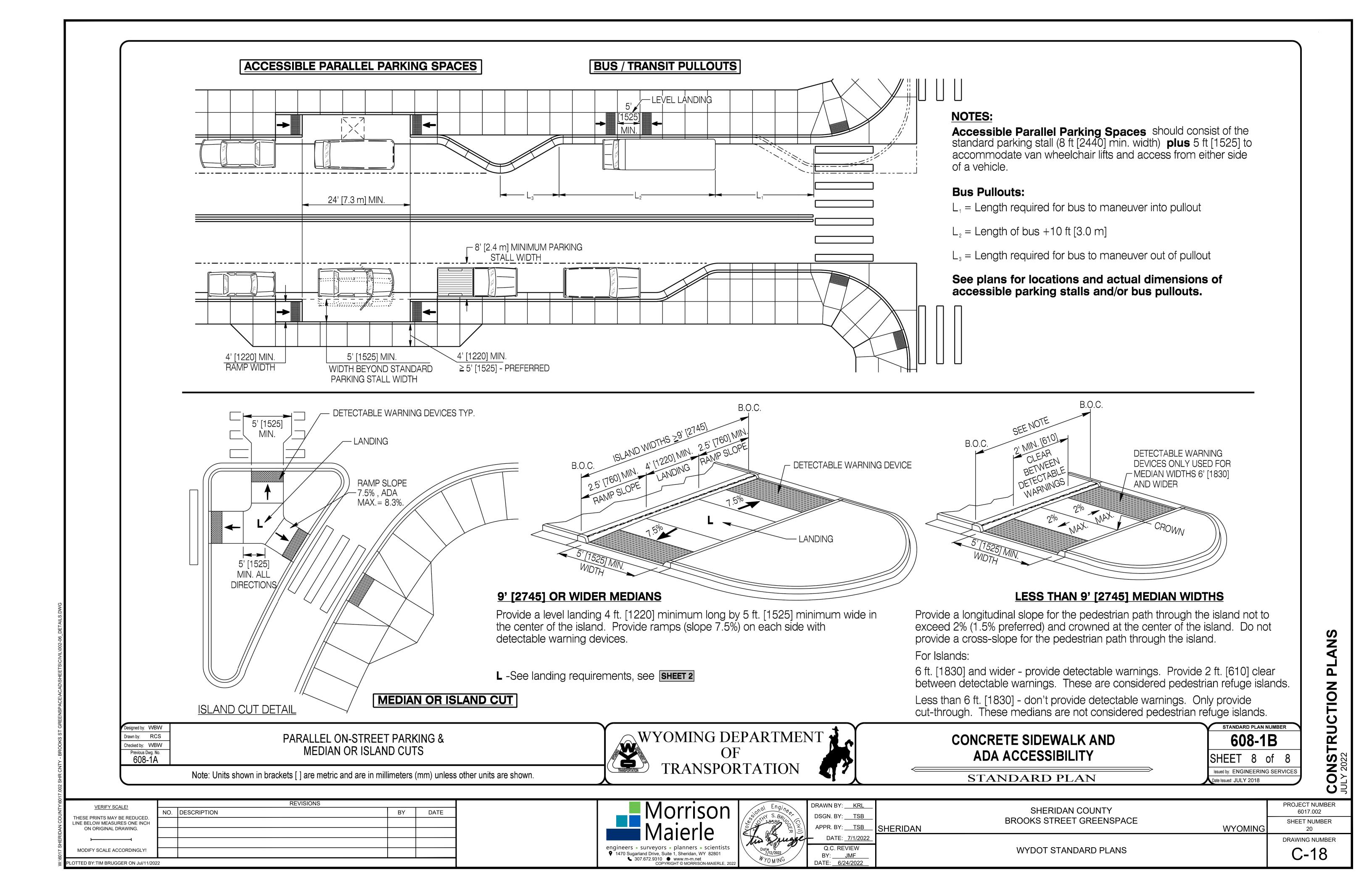


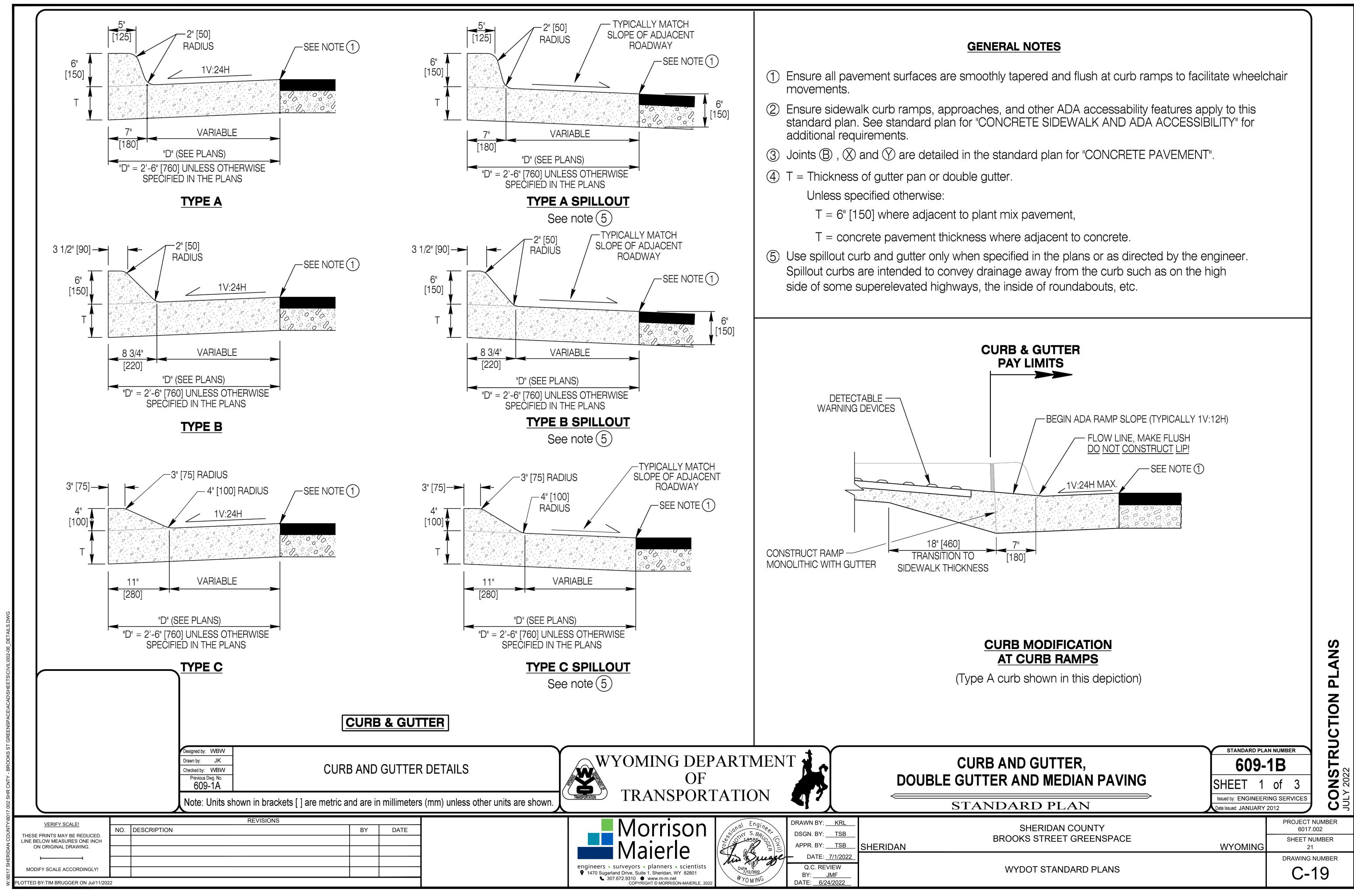


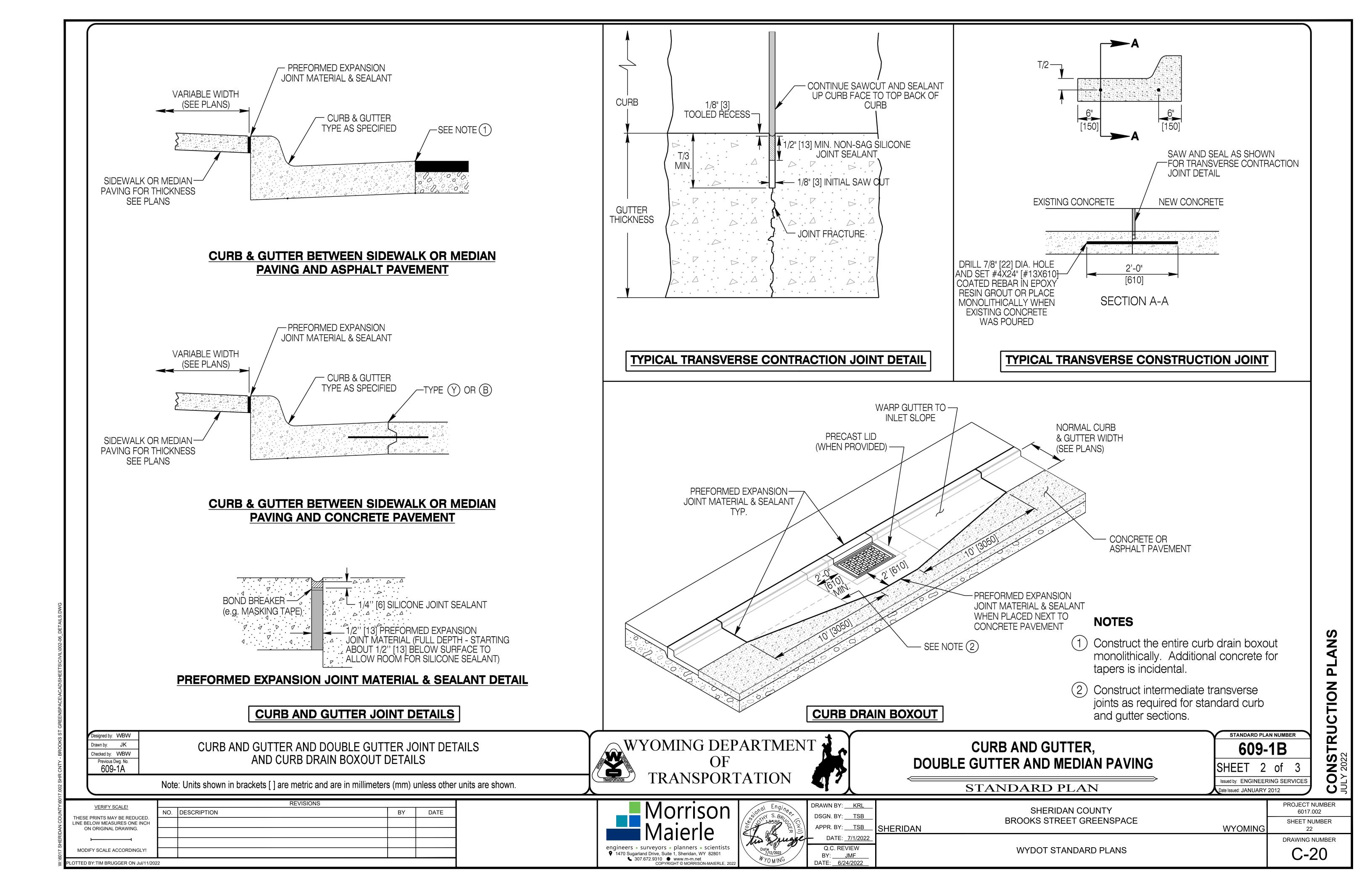
ERIDAN COUNTY\6017.002 SHR CNTY - BROOKS ST GREENSPACE\ACAD\SHEETS\CIVIL\002-06_DI

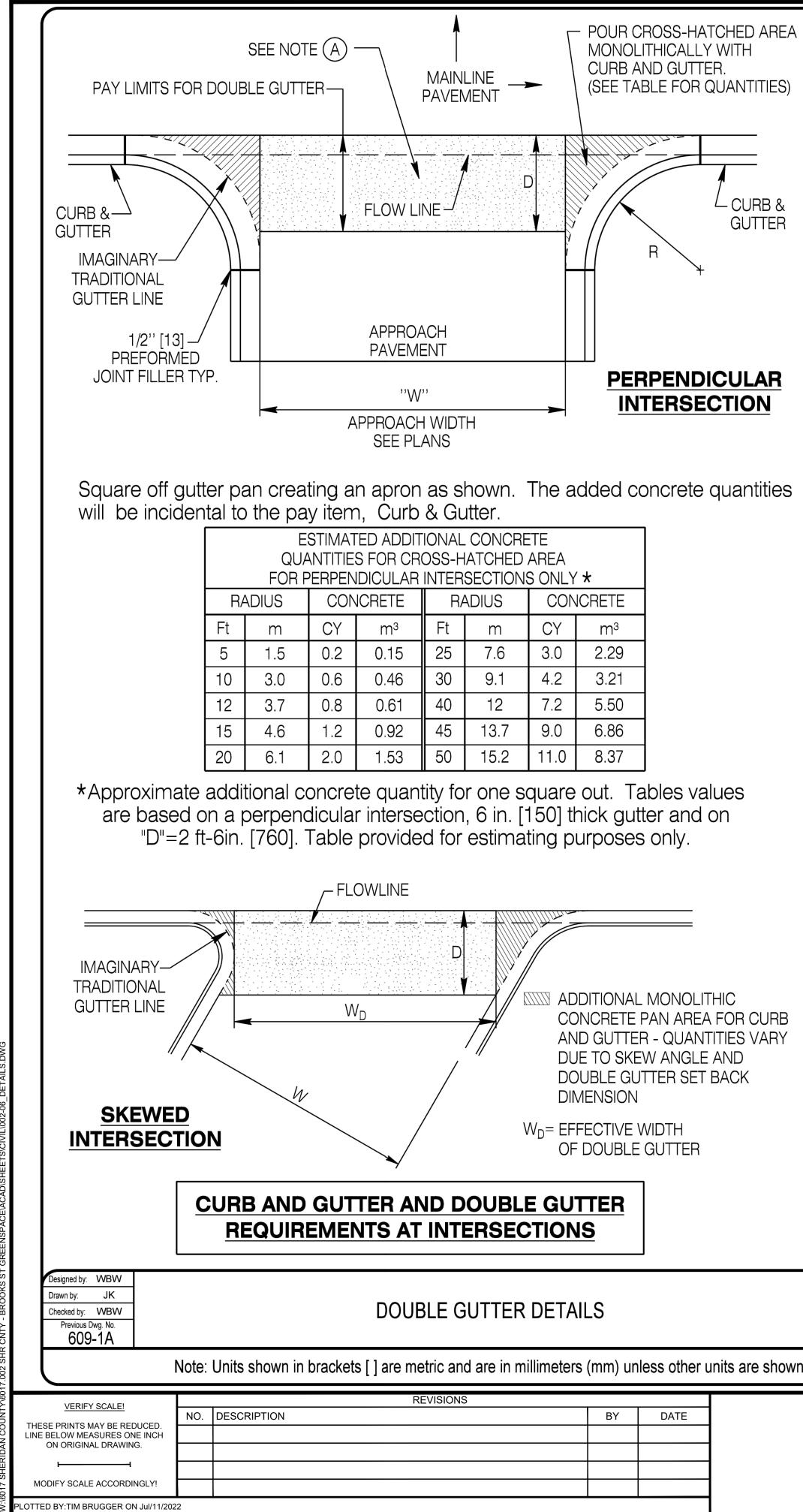


	SONOT - INVINE CALL	DSGN. BY: <u>TSB</u>	
📥 Maierle	CER Dunge	APPR. BY: <u>TSB</u> DATE: <u>7/1/2022</u>	SHE
engineers = surveyors = planners = scientists ♥ 1470 Sugarland Drive, Suite 1, Sheridan, WY 82801 ♥ 307 672 9310 ● wwww.m-m.pet	Date 7/12/2022	Q.C. REVIEW BY:JMF	







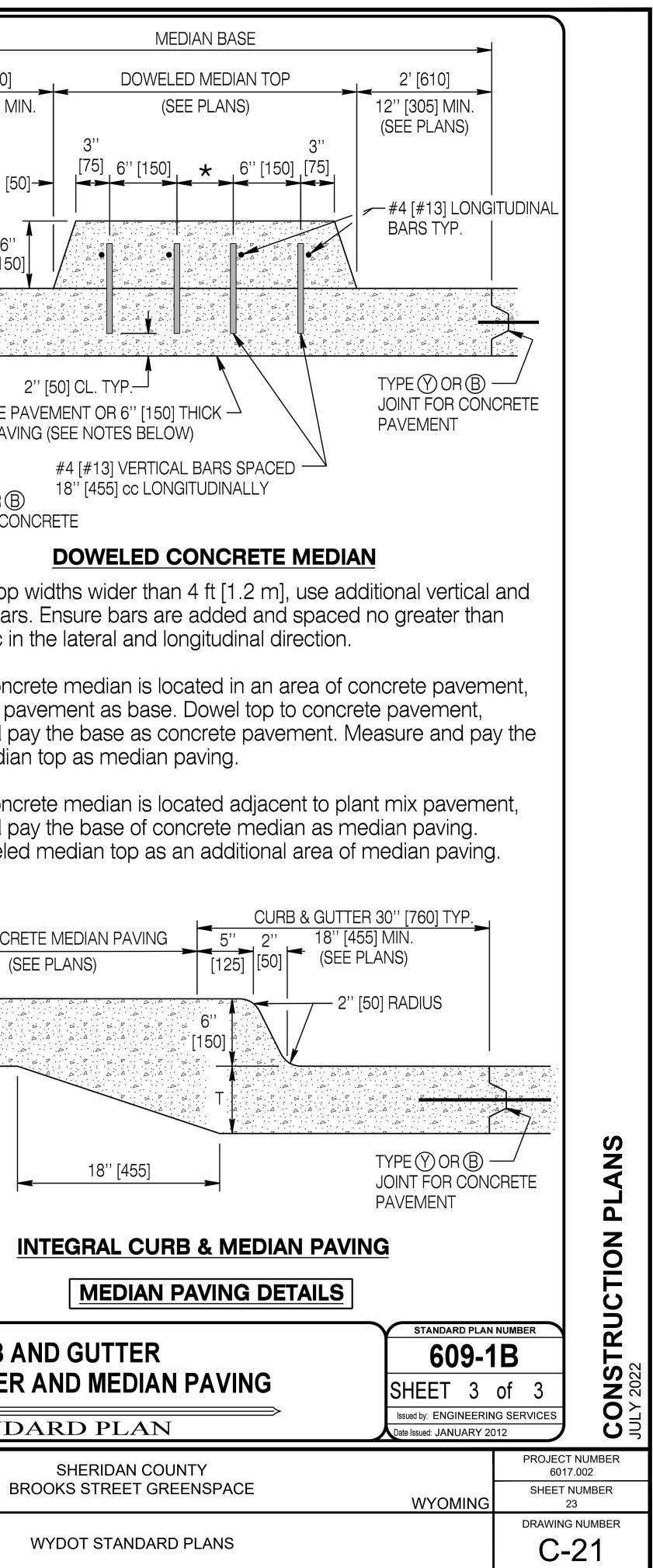


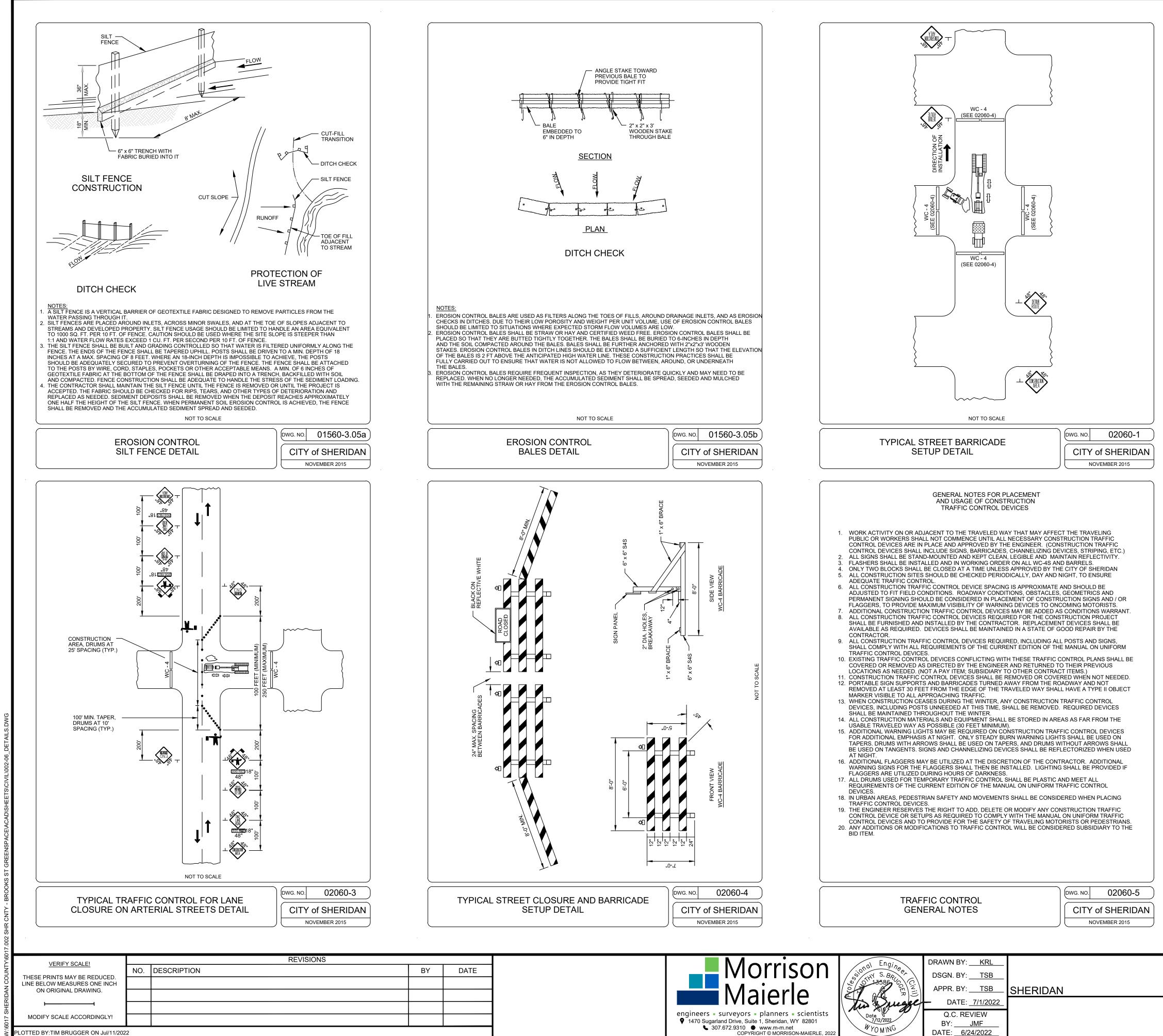
	"D" (SEE PLANS) MAINLINE ROADWAY	2' [610]
	DOUBLE GUTTER PAY LIMITS PLANT MIX TVDIO ALLY A MATCH MUDTH OF PAVEMENT	12'' [305] N
	BACK SLOPE VARIABLE SEE NOTE (A) 1V:24H	2'' [
		6' [15]
	DOUBLE GUTTER ADJACENT TO MAINLINE PLANT MIX PAVEMENT	
	T = See note(4), General Notes, Sheet 1.	
		CONCRETE
	PAID FOR AS DOUBLE GUTTER CONCRETE PAVEMENT TYPICALLY MATCH WIDTH OF	JOINT FOR CO PAVEMENT
	BACK SLOPE VARIABLE	+ For median top
	SEE NOTE A JOINT	longitudinal ba
		18 in [455] cc i
		If doweled con use concrete p
	DOUBLE GUTTER ADJACENT TO MAINLINE CONCRETE PAVEMENT	measure and
	For Double Gutter next to concrete pavement, match concrete pavement contraction joint spacing.	doweled medi
	concrete pavernent contraction joint opacing.	If doweled con measure and p
		Pay the dowele
	T = See note(4), General Notes, Sheet 1	
	T – See Hole(4), General Noles, Sheel T	CONC
	(A) Ensure the backslope for double gutter is 1V:48H or flatter when located	
	in the path of a pedestrian crossing to meet ADA requirements. Otherwise,	
	use a slope as directed by the Engineer.	
	B See sidewalk standard plan for further requirements for double gutter for	6" [150]
	(driveway) approaches located within city blocks.	└─6'' [150] UNLESS
		OTHERWISE SHOWN IN
		PLANS
	WYOMING DEPARTMENT	
n.	TRANSPORTATION (STANI
	Morrison Condi Engine DRAWN BY: KRL	
		N
	engineers = surveyors = planners = scientists 1470 Sugarland Drive, Suite 1, Sheridan, WY 82801 Q.C. REVIEW 7/12/2022 Dote 7/12/2022	
	€ 307.672.9310 ● www.m-m.net	

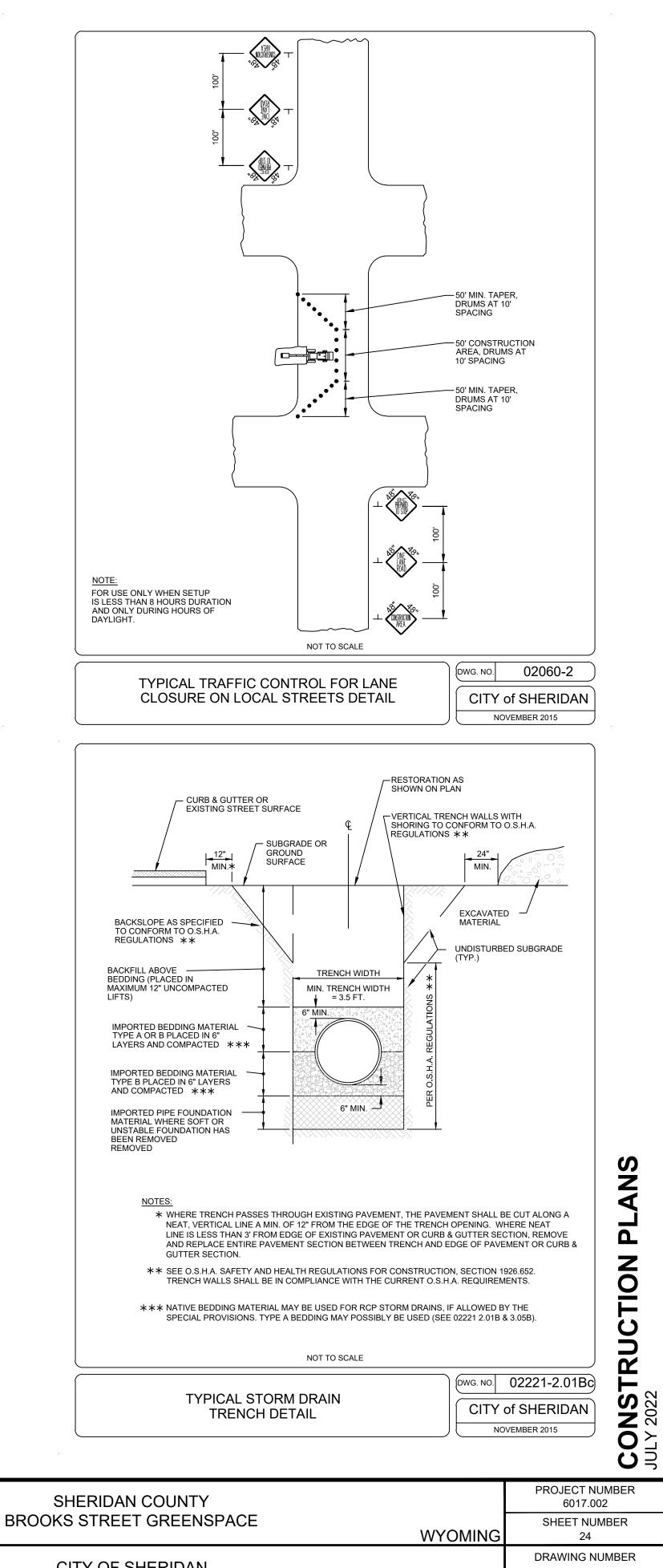
WYOMING

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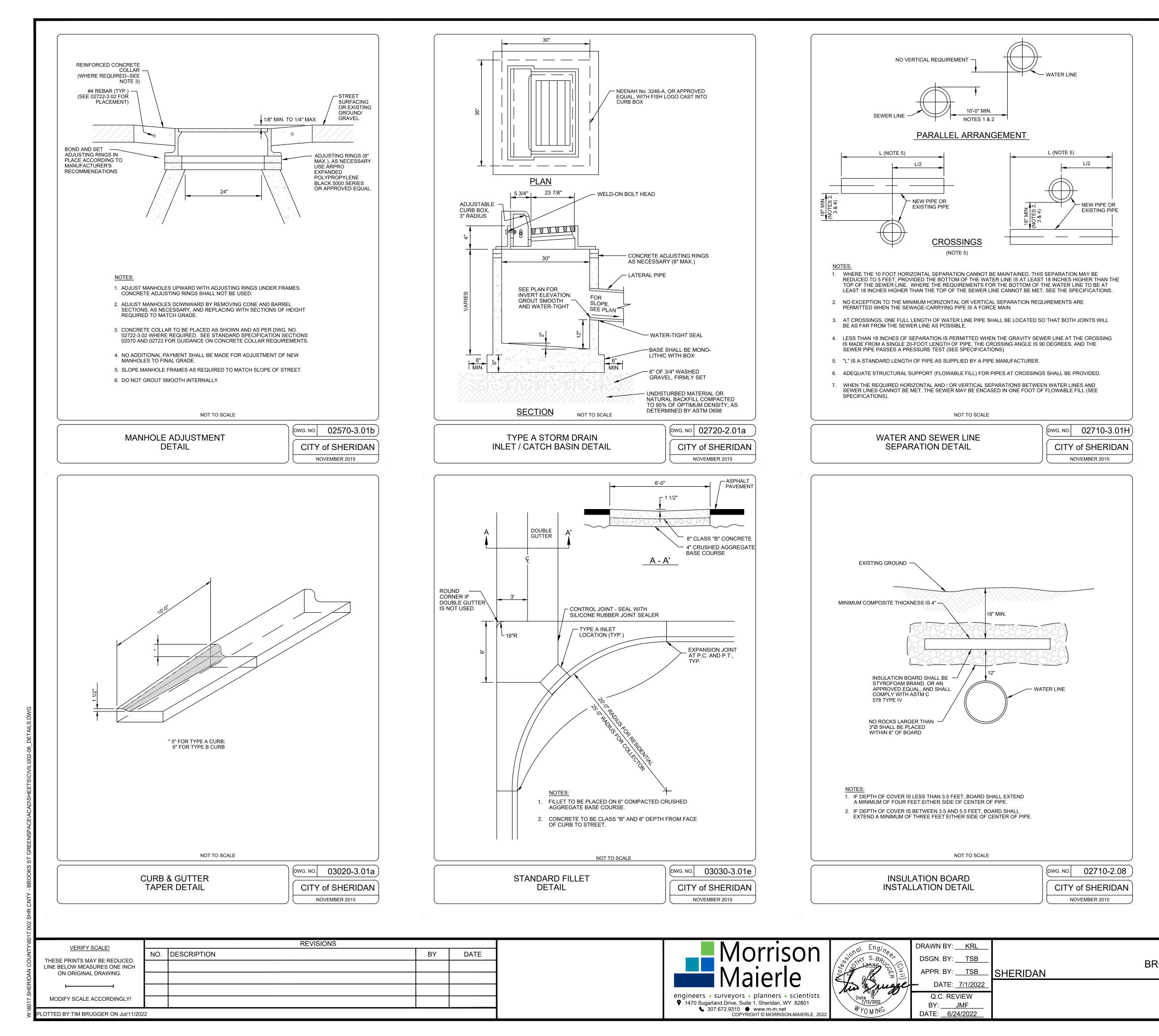
BY: <u>JMF</u> DATE: <u>6/24/2022</u>

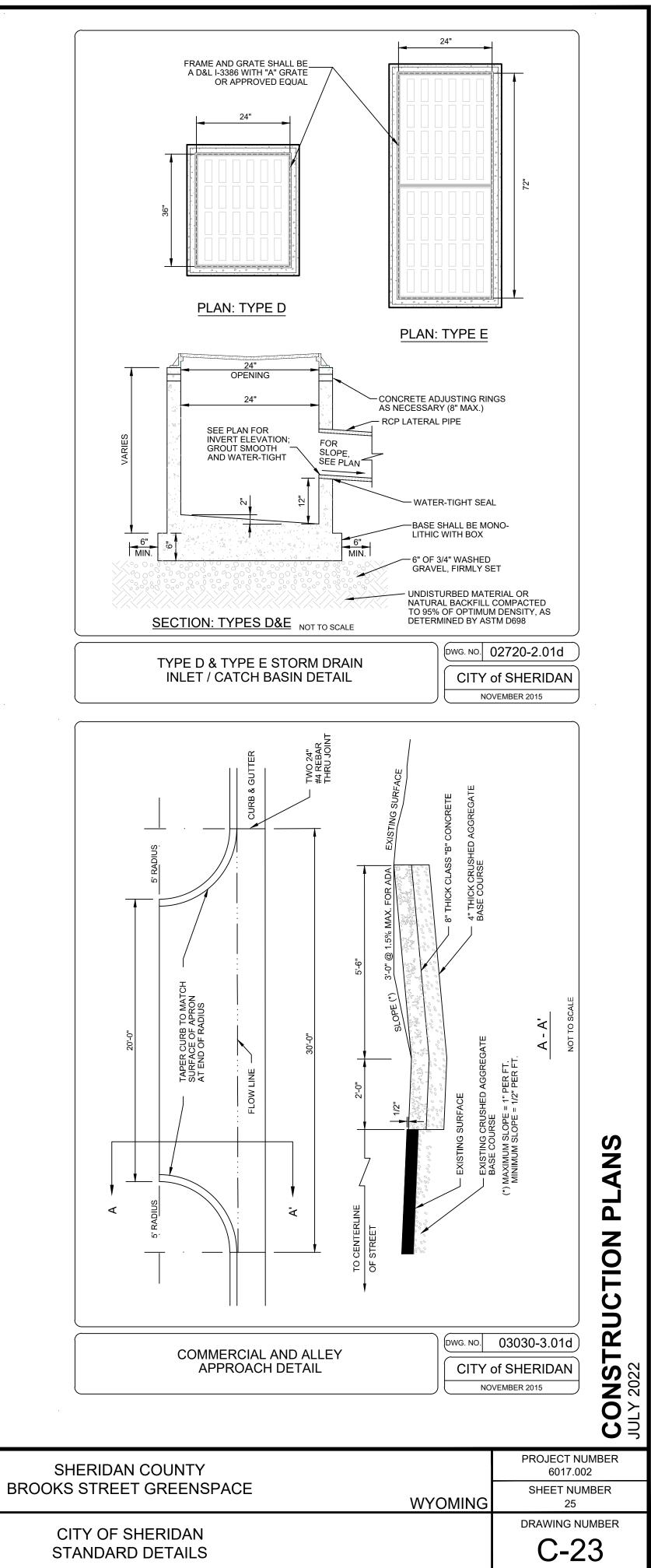


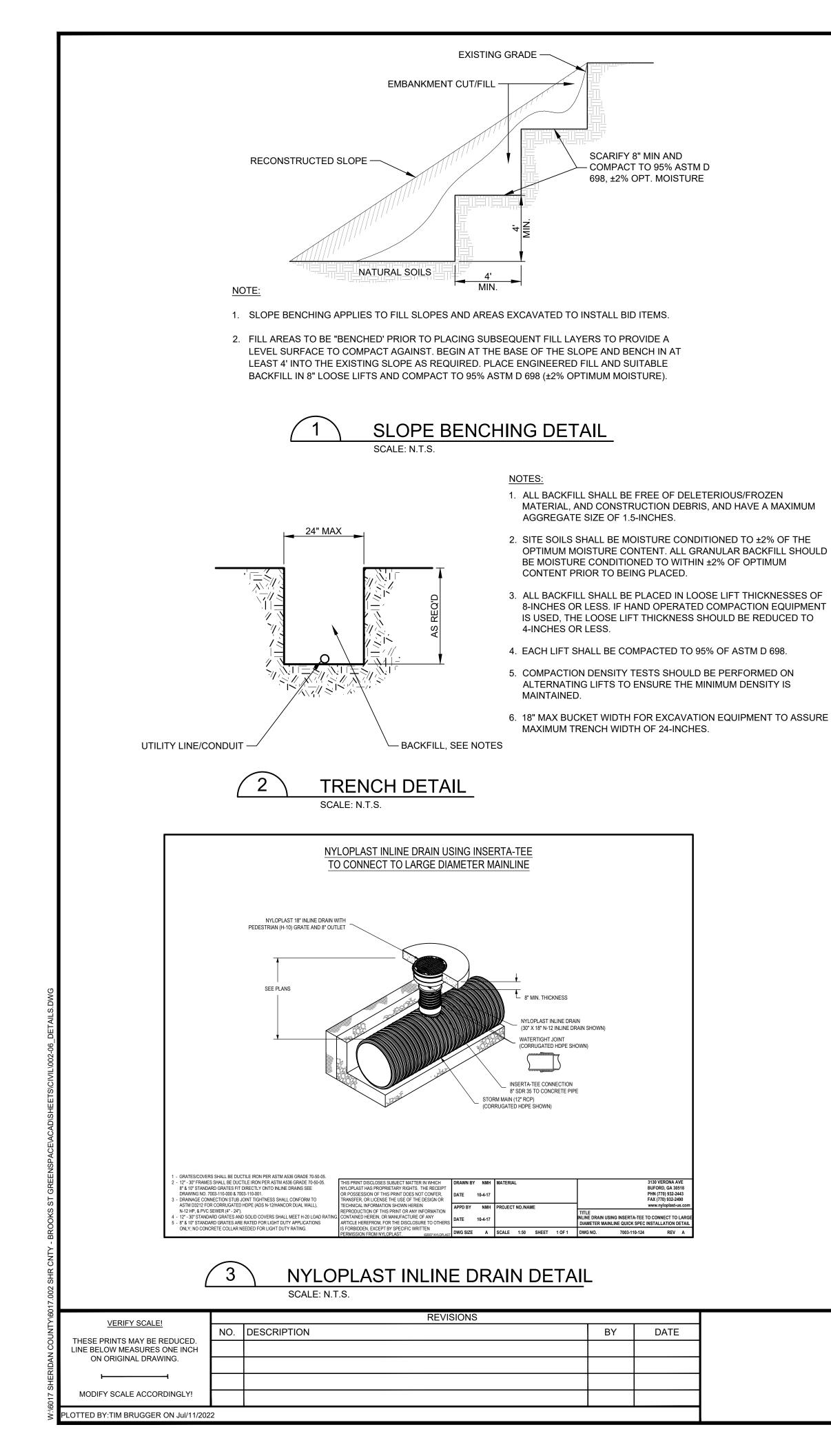


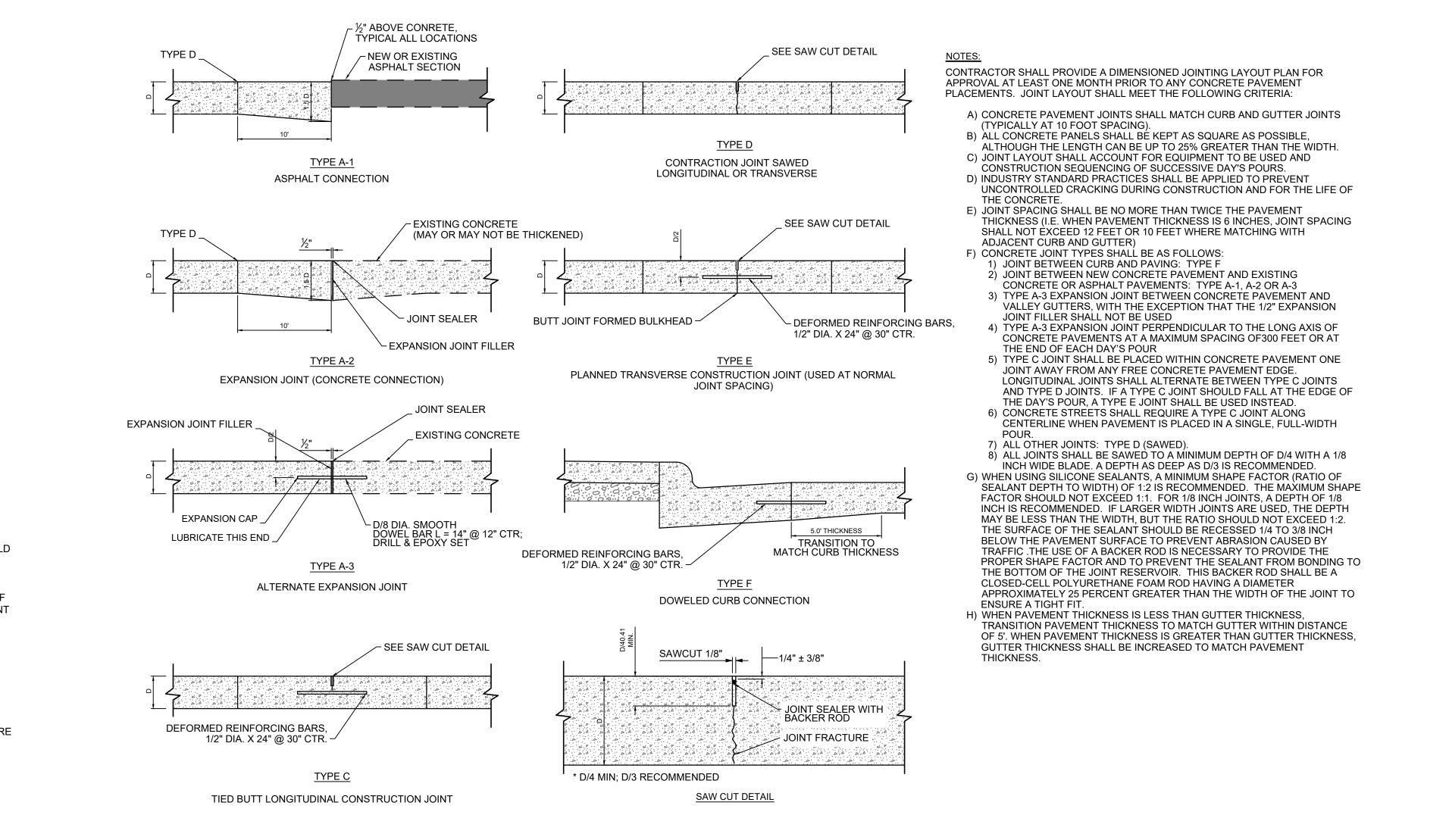


CITY OF SHERIDAN STANDARD DETAILS C-22









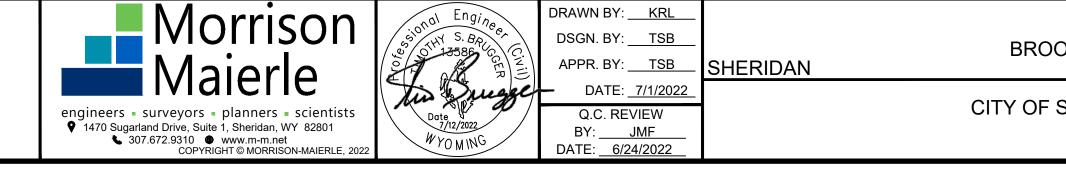
NOTE

1. THE TIE BARS FOR TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED PARALLEL TO THE CENTERLINE OF THE ROADWAY AT THE SPACING SHOWN. BEGINNING 6" FROM THE OUTER EDGES OF THE PAVEMENT.

2. SAWED OR PLASTIC STRIP JOINTS SHALL NOT DEVIATE MORE THAN 1" FROM THE EDGE OF A 12'-0" STRAIGHT EDGE.

3. ONLY ONE OF THE TWO TYPES OF JOINTS (LONGITUDINAL OR TRANSVERSE) SHALL BE FORMED BY A PLASTIC STRIP, AND THE OTHER JOINT SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS.





C

SHERIDAN COUNTY		PROJECT NUMBER 6017.002
BROOKS STREET GREENSPACE	WYOMING	SHEET NUMBER 26
Y OF SHERIDAN STANDARD DETAILS AND DETAILS		DRAWING NUMBER

ELECTRICAL ABBREVIATIONS LEGEND					
A, AMP	AMPERES	MAG	MAGNETIC STARTER		
AC	ALTERNATING CURRENT	MAN	MANUAL		
A/C	AIR CONDITIONING	MAX	MAXIMUM		
AF AFC	AMP FUSE AVAILABLE FAULT CURRENT	MC MCA	MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY		
AFC	ARC FAULT CIRCUIT INTERRUPTER	MCA	MOTOR CONTROL CENTER		
AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL		
AFG	ABOVE FINISHED GRADE	MECH	MECHANICAL		
AHU	AIR HANDLING UNIT	MEP	MECHANICAL, ELECTRICAL, PLUMBI		
AL	ALUMINUM	MH	METAL HALIDE		
AS	AMP SWITCH	MIN			
ATS BAS	AUTOMATIC TRANSFER SWITCH BUILDING AUTOMATION SYSTEM	MSS N	MOTOR STARTER SWITCH WITH THE NEUTRAL		
BAS	BREAKER	NC	NORMALLY CLOSED		
BOF	BOTTOM OF FIXTURE	NEC	NATIONAL ELECTRIC CODE		
С	RACEWAY/CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTU		
CB	CIRCUIT BREAKER		ASSOCIATION		
CCT	COLOR RENDERING TEMPERATURE	NFD	NON-FUSED DISCONNECT		
CCTV		NIC NO			
CKT CLG	CIRCUIT CEILING	#	NORMALLY OPEN NUMBER		
C.O.	RACEWAY/CONDUIT ONLY, WITH PULL STRING	ŐAE	OR APPROVED EQUAL		
COD	CENTER OF DEVICE	OC	ON CENTER		
CNTRL	CONTROL	OCPD	OVERCURRENT PROTECTIVE DEVIC		
CU	COPPER	OH	OVERHEAD		
(D)	EXISTING TO BE DEMOLISHED	P	POLE		
DISC DIST	DISCONNECT DISTRIBUTION	PB PC	PUSHBUTTON PLUMBING CONTRACTOR		
DIST	DOUBLE POLE DOUBLE THROW	PC PH	PLOMBING CONTRACTOR		
DWG	DRAWING	PNL	PANEL		
EA	EACH	PVC	POLYVINYL CHLORIDE CONDUIT		
EC	ELECTRICAL CONTRACTOR	PWR	POWER		
EF	EXHAUST FAN	(R)	EXISTING TO REMAIN		
ELEC		RCPT	RECEPTACLE		
EMT EQUIP	ELECTRICAL METALLIC TUBING EQUIPMENT	RECEPT RGS	RECEPTACLE RIGID GALVANIZED STEEL		
	EXISTING	RM	ROOM		
FA	FIRE ALARM	RVNR	REDUCED VOLTAGE NON-REVERSIN		
FAA	FIRE ALARM ANNUNCIATOR	RVR	REDUCED VOLTAGE REVERSING		
FACP	FIRE ALARM CONTROL PANEL	SP	SINGLE POLE TOGGLE SWITCH		
FD	FUSED DISCONNECT	SPD	SURGE PROTECTIVE DEVICE (TVSS)		
FLR FO	FLOOR FIBER OPTIC	SPEC SPST	SPECIFICATION SINGLE POLE SINGLE THROW		
FSD	FIRE SMOKE DAMPER RELAY, CONTROLLED BY	SSPB	START-STOP PUSHBUTTON		
	ASSOCIATED SMOKE DETECTOR AND CIRCUITED	SW	SWITCH		
	BACK TO FACP	SWBD	SWITCHBOARD		
FVNR	FULL VOLTAGE NON-REVERSING	SWGR	SWITCHGEAR		
FVR	FULL VOLTAGE REVERSING	TB	TELEPHONE BOARD		
GEC GFCI	GROUNDED ELECTRODE CONDUCTOR GROUND FAULT CIRCUIT INTERRUPTER	TC TD	TIME CLOCK TIME DELAY		
GFU	GROUND FAULT INTERRUPTER	TEL	TELEPHONE		
GFP	GROUND FAULT PROTECTION	TR	TAMPER RESISTANT		
GND	GROUND	TSP	TWISTED SHIELDED PAIR		
GRC	GALVANIZED RIGID CONDUIT	TTB	TELEPHONE TERMINAL BOARD		
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL		
HOA		UG			
HP HPS	HORSEPOWER HIGH PRESSURE SODIUM	UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE		
HTR	HEATER	V	VOLT		
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VА	VOLT-AMPERES		
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE		
J-BOX	JUNCTION BOX	W	WATTS		
KVA	KILOVOLT-AMPERES	WAO	WORK AREA OUTLET		
KW	KILOWATTS	WP	WEATHERPROOF		
LCP LPW	LIGHTING CONTROL PANEL LUMENS PER WATT	W/O XFMR	WITHOUT TRANSFORMER		
LFW	LIGHTING	Y	WYE-CONNECTED		
LM	LUMENS	Δ	DELTA-CONNECTED		
LV	LOW VOLTAGE	Ø	PHASE		

CIRICAL ABBREVIATION	NS LE	GEND	ELECTF	RICAL POWE	RLEGEN	ID	
AMPERES ALTERNATING CURRENT AIR CONDITIONING AMP FUSE AVAILABLE FAULT CURRENT ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALUMINUM AMP SWITCH AUTOMATIC TRANSFER SWITCH BUILDING AUTOMATION SYSTEM BREAKER BOTTOM OF FIXTURE RACEWAY/CONDUIT CIRCUIT BREAKER COLOR RENDERING TEMPERATURE CLOSED CIRCUIT TELEVISION CIRCUIT CEILING RACEWAY/CONDUIT ONLY, WITH PULL STRING CENTER OF DEVICE CONTROL COPPER EXISTING TO BE DEMOLISHED DISCONNECT DISTRIBUTION DOUBLE POLE DOUBLE THROW DRAWING EACH ELECTRICAL CONTRACTOR EXHAUST FAN ELECTRIC	MAG MAN MAX MCA MCC MDP MEP MH MIN MSS N NC NEC NEMA NFD NIC NO # OC OCPD OH P B PC PH PNLC PWR RCPT RGS RM RVR SPD SPEC SPST SPB SPEC SPST SPB SWBD SWGR TD TEL TR TSP TTB TU UH OV VA VFD WAO WP W/O XFMR Y A	MAGNETIC STARTER MANUAL MAXIMUM MECHANICAL CONTRACTOR MINIMUM GIRCUIT AMPACITY MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MECHANICAL MECHANICAL MECHANICAL GENANICAL ELECTRICAL, PLUMBING METAL HALIDE MINIMUM MOTOR STARTER SWITCH WITH THERMAL OVERLOADS NEUTRAL NORMALLY CLOSED NATIONAL ELECTRIC CODE NATIONAL ELECTRIC CODE NORMALLY OPEN NUMBER OR APPROVED EQUAL ON CENTER OVERCURRENT PROTECTIVE DEVICE OVERHEAD POLE PUSHBUTTON PLUMBING CONTRACTOR PHASE PANEL POLYVINYL CHLORIDE CONDUIT POWER EXISTING TO REMAIN RECEPTACLE RIGD GALVANIZED STEEL ROOM REDUCED VOLTAGE NON-REVERSING REDUCED VOLTAGE NON-REVERSING REDUCED VOLTAGE NON-REVERSING REDUCED VOLTAGE NON-REVERSING REDUCED VOLTAGE SWITCH SURGE PROTECTIVE DEVICE (TVSS) SPECIFICATION SVITCH SWITCHBOARD SWITCH SWITCHBOARD THE CLOCK TIME CLOCK TIME CLOCK TIME CLOCK TIME CLOCK TIME CLOCK TAMPER RESISTANT TWISTED SHIELDED PAIR TELEPHONE TAMPER RESISTANT TWISTED SHIELDED PAIR TELEPHONE TEMIINAL BOARD TYPICAL UNDERGROUND UNIT HEATER VARIABLE FREQUENCY DRIVE WATS WORK AREA OUTLET WEATHSPROME WATS WORK AREA OUTLET WEATHERPROOF	D-1 ⊕X D-1 ⊕X BRA BRA BRA BRA BRA BRA BRA BRA	IEL AND CIRCUIT DESIGNATION EACH DEVICE (PANEL NAME - (NCH CIRCUIT WIRE SIZE IS #13 ULATED GREEN GROUND CON DVIDED WITH EACH HOME RUN PARATE NEUTRAL FOR EACH C ALL HAVE NO MORE THAN THR TAGE AND LOW VOLTAGE WIR PLANS. FOR EQUIPMENT CIRC DRDINATION SCHEDULE. INDICATES TYPE: GFI - GROUND FAULT INTERRU WP - WEATHERPROOF WHILE- U - PROVIDE WITH (2) USB POF TR - TAMPER RESISTANT PLEX RECEPTACLE - CEILING N UNT (+18", UNO) PLEX RECEPTACLE - CEILING N UNT (+18", UNO) ADRUPLEX RECEPTACLE - CEIL UNT (+18", UNO) ADRUPLEX RECEPTACLE - CEIL D - EMERGENCY POWER OF ADA - HANDICAPPED ACCESSII (DEVICE BY OTHERS) DOD - OVERHEAD DOOR OPEF (DEVICE BY O	NARE SHOWN NEXT CIRCUIT NUMBER). 2, UNO. A SINGLE IDUCTOR SHALL BE 3, PROVIDE A CIRCUIT. HOME RUNS EE CIRCUITS. LINE RING IS NOT SHOWN CUITING, SEE MEP JPTER IN-USE COVER RTS MOUNT, WALL AOUNT, WALL LING MOUNT, WALL LING MOUNT, WALL LING MOUNT, WALL LING MOUNT, WALL NO) F BLE DOOR RATOR SE A STANDARD LIST; N TANDARD LIST; NOT ALL DEVICE ABOVE FINISHE ORS, MAKING ADJUSTM IT HEATERS, ETC. ARCH ED ON ARCHITECTURAL CEDENCE OVER MOUNT IT HEATERS, ETC. ARCH ED ON ARCHITECTURAL CEDENCE OVER MOUNT SITE. NOT ALL WORK F ME THOROUGHLY FAMIL CLUDE SAID WORK IN TH L CONSTRUCTION SHAL XACTING." THIS PUBLICA TE C RATING COLUMN OF OR THE TERMINAL IS M E AMPACITY OF THE CO DR AT LEAST 75 DEGREE UIRED IN THE FIELD, THE TAGE DROP TO 3%. FOF EN 100 AND 200 LINEAR FOR CIRCUITS EXTENDING E AMPACITY OF THE CO DR AT LEAST 75 DEGREE UIRED IN THE FIELD, THE TAGE DROP TO 3%. FOF EN 100 AND 200 LINEAR FOR CIRCUITS EXTENDING E AMPACITY OF THE CO DR AT LEAST 75 DEGREE UIRED IN THE FIELD, THE TAGE DROP TO 3%. FOR EN 100 AND 200 LINEAR FOR CIRCUITS EXTENDING E AMPACITY OF THE CO DR AT LEAST 75 DEGREE	PANELBOARD OR LOAD CENTI SPECIAL PURPOSE RECEPTAN +18", UNO) <u>"X" INDICATES TYPE:</u> A - NEMA 5-20R, #12 CU; C - NEMA 5-30R, #10 CU; G - NEMA 14-20R, #12 CU; I - NEMA 14-30R, #6 CU; E - NEMA 14-20R, #12 CU; I - NEMA 14-50R, #6 CU; E - NEMA 14-20R, #12 CU; I - NEMA 14-50R, #6 CU; E - NEMA 14-50R, #6 CU; F - NEMA 14-50R, #6 CU; E - NEMA 14-50R, #6 CU; I - NEMA 14-50R, #6 CU; F - NEMA 14-50R, #6 CU; I - NEMA 14-50R, #6 CU; F - NEMA 14-50R, #6 CU; I - NEMA 14-50R, MORE I - NECTABLE 310.16. IF THE TERMINAL USED F ARKED FOR 60 DEGREE C CONDUCTORS, IT IS NDUCTOR TO MATCH THE 60 DEGREE COLUM IS C. I - NECTABLE 310.16. IF THE TERMINAL USED F ARKED FOR 60 DEGREE C CONDUCTORS, IT IS NDUCTOR TO MATCH THE 60 DEGREE COLUM IS C. I - NEC TABLE 310.16. IF THE TERMINAL USED F ARKED FOR 60 DEGREE C CONDUCTORS, IT IS NDUCTOR TO MATCH THE 60 DEGREE COLUM IS C. I - NEC TABLE 310.16. 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IF THE TERMINAL COND I - N	ELE (MOUNT AT B - NEMA 5-30R, #10 CU; D - NEMA 6-20R, #12 CU; F - NEMA 6-50R, #6 CU; H - NEMA 14-30R, #10 CU; BELOW GRADE PPED END USHED END USHED END USHED END DIECT. TRICAL CONTRACTOR E WITH EQUIPMENT SUCH HEIGHT LY ON THE DRAWINGS OWN ON THE PLETE THE PROJECT IN RD PRACTICES FOR IE AT 301-657-3110 OR OWN ON THE PLETE THE PROJECT IN RD PRACTICES FOR IE AT 301-657-3110 OR OR A TERMINATION OF S THE RESPONSIBILITY N OF TABLE 310.16, OR EASE THE WIRE SIZES JCTOR SIZES SHALL BE ND 325 LINEAR FEET,
CTRICAL LIGHTING FIXT	URE	LEGEND					
POLE MOUNTED FIXTURE	O(LIGHTED BOLLARD		ALL MATERIALS US	ED ON THIS PROJECT A	RE SUBJECT TO THE FEDERAL BUY	
CTRICAL ONE-LINE LEG	END			APPROPRIATE BUY THE REQUIREMENT PROVIDED IN SPEC LISTED IN THE PRO	AMERICAN CERTIFICAT , CONTRACTOR SHALL S IFICATIONS. ALL BUY AM DUCT DATA SUBMITTAL	ION OR IF MATERIALS CANNOT MEET SUBMIT A WAIVER, USING THE FORM IERICAN REQUIREMENTS MUST BE OR SUBMITTALS WILL BE REJECTED.	
CT AND CUSTOMER POWER METER	L L	WALL MOUNTED BREAKER DISCONNECT SWITCH ("XXAS" = SWITCH AMP RATING)		FOR BASIS OF DESI	IGN ONLY AND DO NOT N		
UTILITY ELECTRIC METER AND BASE (BASE BY CUSTOMER)		FUSED DISCONNECT SWITCH ("XXAS/XXAF" = SW AND FUSE AMP RATING)		_			
LIGHTNING ARRESTER, TYPE 1 SPD, MOUNTED ON EXTERIOR OF MAIN SWITCHGEAR (SQUARE D. SDSA SERIES, OAE)	PNL A 2089/120V 3e, 4W	SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED		NUMBER E-1 E-2	ELECTRI		
		POWER RELAY, 120V COIL		E-3		AL SPECIFICATIONS	
	AMPERES ALTERNATING CURRENT AIR CONDITIONING AMP FUSE AVAILABLE FAULT CURRENT ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALUMINUM AMP SWITCH AUTOMATIC TRANSFER SWITCH BUILDING AUTOMATION SYSTEM BREAKER BOTTOM OF FIXTURE RACEWAY(CONDUIT CICUIT BREAKER COLOR RENDERING TEMPERATURE CLOSED CIRCUIT TELEVISION CICUIT BREAKER COTTOL COPPER EXISTING TO BE DEMOLISHED DISTRIBUTION DOUBLE POLE DOUBLE THROW DRAWING EACH ELECTRICAL CONTRACTOR EXISTING TO BE DEMOLISHED DISTRIBUTION DOUBLE POLE DOUBLE THROW DRAWING EACH ELECTRICAL CONTRACTOR EXISTING FIRE ALARM FIRE ALARM MANUNCIATOR FIRE ALARM ANNUNCIATOR FIRE ALARM ANNUNCIATOR FIRE ALARM ANNUNCIATOR FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL FLUSD DISCONNECT FLOOR FIER OPTIC FIRE SMOKE DAMPER RELAY, CONTROLLED BY ASSOCIATED SMOKE DETECTOR AND CIRCUITED BACK TO FACP FULL VOLTAGE NON-REVERSING FULL VOLTAGE NON-REVERSING CONTROL PAULT PROTECTION GALVANIZED RIGID CONDUT HEATING, VENTIL ATTION & AIR CONDITIONING HEATING VENTIL ATTION & AIR CONDITIONING HEATING VENTIL ATTION BOX KLOVOLTAME CT AND CUSTOMER POWER METER MOTOR	AMPERES ALTERNATING CURRENT AIR CONDITIONING AMP FUSE AVAILABLE FAULT CURRENT ARC APALTONING AMP FUSE AVAILABLE FAULT CURRENT ARC APALTONING APP STORMANDE ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALUMINUM AUTOMATIC TRANSFER SWITCH BUILDING AUTOMATICN SYSTEM N BREAKER BOTTOM OF FIXTURE RACEWAYCONDUIT CRUIT BREAKER COCONTROL CORDITION CELLING RACEWAYCONDUIT ONLY, WITH PULL STRING CORDITION CELLING RACEWAYCONDUIT ONLY, WITH PULL STRING CORDER DISTRIBUTION CELLING RACEWAYCONDUIT ONLY, WITH PULL STRING CORDITION CELLING RACEWAYCONDUIT ONLY, WITH PULL STRING CORDITION CELCINCAL CONTRACTOR PULL COLTACE ON PARENT RACEWAYCONDUIT ONLY, WITH PULL STRING CORDING AND RACEWAR RACEWAYCONDUIT ONLY, WITH PULL STRING CORDING AND RACEWAR RACEWAYCONDUIT ONLY, WITH PULL STRING CONTROL PARENT RACEWAYCONDUIT ONLY, WITH PULL STRING CONTROL PARENT RACEWAYCONDUIT ONLY, WITH PULL STRING CONTROL PARENT RACEWAYCONTON PULL COLTAGE NON-REVERSING FUECTRICAL CONTRACTOR PUSED DISCONNECT PORENT AND CALAMA ANNINGLATOR FREE ALARM ANNINGLATOR	ALTERNATING CURRENT ANALY MANUAL MANUAL MARCENT ANALYSE ANALYSE CONTRACTOR ANALYSE ANALYSE CONTRACTOR ANALYS	AMAGENIE Marcelle Structures Marcelle Structures Marcelle Structures <td></td> <td></td> <td></td>			

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ssional Eng DRAWN BY: ______ FREY L. APA ate () Date 7-1-22 WYOMING

DSGN. BY: TJ APPR. BY: JK SHERIDAN DATE: <u>7/1/2022</u> Q.C. REVIEW BY: <u>RM</u> DATE: <u>6/20/22</u>

CONSTRUCTION PLANS

JULY 2022

PROJECT NUMBER 6017.002

SHERIDAN COUNTY BROOKS STREET GREENSPACE

SHEET NUMBER 27 DRAWING NUMBER

E-1

ELECTRICAL COVER SHEET

WYOMING

 A. SUMMARY 1. THE REQUIREMENTS LISTED IN THIS SECTION ARE SUPPLEMENTAL TO THE DIVISION 01 GENERAL REQUIREMENTS. 2. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL AND LOW-VOLTAGE CONTRACTORS TO EXAMINE AND REFER TO ALL ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR CONSTRUCTION CONDITIONS WHICH MAY AFFECT THE SCOPE OF ELECTRICAL, COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY WORK. INSPECT THE BUILDING SITE AND EXISTING FACILITIES FOR VERIFICATION OF PRESENT CONDITIONS, MAKE PROPER PROVISIONS FOR THESE CONDITIONS IN PERFORMANCE OF THE WORK AND COST THEREOF. 3. ELECTRICAL, COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY WORK FOR THIS PROJECT SHALL INCLUDE ALL ITEMS, ARTICLES, MATERIALS AND THE ASSOCIATED LABOR MENTIONED, SCHEDULES OR SHOWN IN THESE SPECIFICATIONS AND IN THE ACCOMPANYING DRAWINGS. 4. FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND REQUIRED INCIDENTAL ITEMS REQUIRED BY GOOD PRACTICE TO COMPLETE THE SYSTEMS DESCRIBED HEREIN. 5. REFER TO DIVISION 01 FOR ALL LISTED ALTERNATES AND PROVIDE SEPARATE PRICING AND WORK AS INDICATED IN DIVISION 01 AND CONTRACT DOCUMENTS. 6. ALL PROVIDED PRODUCTS MUST MEET THE "BUY AMERICA" ACT. 8. DEFINITIONS - THROUGHOUT CONTRACT DOCUMENTS THESE WORDS AND PHRASES ARE USED: 1. CONTRACT DOCUMENTS - ALL DRAWINGS, SPECIFICATIONS, ADDENDA AND CHANGE ORDERS THAT DOCUMENT WORK TO BE DONE. 2. DEMOLITION - CAREFULLY DISCONNECT AND REMOVED TEMS. ALL REASONABLE CAUTION SHALL BE TAKEN TO AVOID DAMAGING REMOVED EQUIPMENT AND TO RETAIN ITS OPERABILITY. 3. REFORE BACK TO SOURCE - REMOVE ALL CONDUIT AND WIRE BACK TO PANELBOARD OR LAST LIVE DEVICE. 4. EQUIVALENT OR EQUAL - PROVUED AS SUBSTITUTE FOR SPECIFICATIONS AND WHICH HAS BEEN APPROVED AS SUBSTITUTE FOR SPECIFIED ITEM. 5. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED ITEM. 5. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED ITEM. 6. FURNISH	b. c. 2. LI AG D' M S` EI D' 3. C	ALL TR UIRI IPMI QUAL C A R R S S E I N W B TI E C C
 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL AND LOW-VOLTAGE CONTRACTORS TO EXAMINE AND REFER TO ALL ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR CONSTRUCTION CONDITIONS WHICH MAY AFFECT THE SCOPE OF ELECTRICAL, COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY WORK. INSPECT THE BUILDING SITE AND EXISTING FACILITIES FOR VERIFICATION OF PRESENT CONDITIONS. MAKE PROPER PROVISIONS FOR THESE CONDITIONS IN PERFORMANCE OF THE WORK AND COST THEREOF. ELECTRICAL, COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY WORK FOR THIS PROJECT SHALL INCLUDE ALL ITEMS, ARTICLES, MATERIALS AND THE ASSOCIATED LABOR MENTIONED, SCHEDULES OR SHOWN IN THESE SPECIFICATIONS AND IN THE ACCOMPANYING DRAWINGS. FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND ANY REQUIRED INCIDENTAL ITEMS REQUIRED BY GOOD PRACTICE TO COMPLETE THE SYSTEMS DESCRIBED HEREIN. REFER TO DIVISION 01 FOR ALL LISTED ALTERNATES AND PROVIDE SEPARATE PRICING AND WORK AS INDICATED IN DIVISION 01 AND CONTRACT DOCUMENTS. ALL PROVIDED PRODUCTS MUST MEET THE "BUY AMERICA" ACT. DEFINITIONS - THROUGHOUT CONTRACT DOCUMENTS THESE WORDS AND PHRASES ARE USED: CONTRACT DOCUMENTS - ALL DRAWINGS, SPECIFICATIONS, ADDENDA AND CHANGE ORDERS THAT DOCUMENT WORK TO BE DONE. DEMOLITION - CAREFULLY DISCONNECT AND REMOVED EQUIPMENT AND TO RETAIN ITS OPERABILITY. REMOVE BACK TO SOURCE - REMOVE ALL CONDUIT AND WIRE BACK TO PANELBOARD OR LAST LIVE DEVICE. EQUIVALENT OR EQUAL - PRODUCT OF LIKE TYPE AND FUNCTION THAT COMPLIES WITH ALL APPLICABLE PROVISIONS OF DRAWINGS AND SPECIFIED ITEM. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED ITEM. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED ITEM. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED ITEM. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED AND PLACE MATERIAL TO APPROVED LOCATION ON SITE OR ELSEWHERE A	REQU EQUI 1. Q a. b. c. c. d. 2. LI AC DI S` EI DI 3. C	UIRI IPMI QUAL C C A R W S E IFN W B TI E R C ICEI CCC
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7. PROVIDE - FURNISH AND INSTALL WITH ALL PRODUCTS, LABOR, SUB-CONTRACTS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND PROPERLY OPERATING,		. C 0
FINISHED CONDITION.		D
 ROUGH-IN - PROVIDE CONDUIT RACEWAY SYSTEM WITH JUNCTION BOXES, FITTINGS, STRAPS, BUSHINGS, ETC., FOR FUTURE INSTALLATION OF WIRING, 	Ь	C . C
DEVICES, DISCONNECTS AND BREAKERS, PROVISION SHALL BE MADE IN	ч.	С
PANELBOARD (HARDWARE, ETC.) FOR FUTURE INSTALLATION OF BREAKERS. 9. SERVICEABLE - ARRANGED SO THAT COMPONENT OR PRODUCT IN QUESTION	e.	0 . L/
MAY BE PROPERLY REMOVED AND REPLACED WITHOUT DISASSEMBLY, DESTRUCTION OR DAMAGE TO SURROUNDING INSTALLATION.		P
C. CODES, STANDARDS AND REGULATIONS		Jl
 CODES - PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES; INCLUDING, BUT NOT LIMITED TO LATEST 		C D
LEGALLY ENACTED EDITIONS OF FOLLOWING CODES:		С
a. NFPA 70, NATIONAL ELECTRIC CODE – NEC b. NFPA 72, NATIONAL FIRE ALARM CODE	g.	W . C
 c. ANSI-C2, NATIONAL ELECTRICAL SAFETY CODE – NESC d. INTERNATIONAL BUILDING CODE – IBC 	-	O E
e. INTERNATIONAL FIRE CODE – IFC		. C
 f. INTERNATIONAL ENERGY CONSERVATION CODE – IECC 2. STANDARDS - REFERENCE TO STANDARDS INFERS THAT INSTALLATION. 		IN C
EQUIPMENT AND MATERIAL SHALL BE WITHIN LIMITS FOR WHICH IT WAS	i.	C
 f. INTERNATIONAL ENERGY CONSERVATION CODE – IECC 2. STANDARDS - REFERENCE TO STANDARDS INFERS THAT INSTALLATION, EQUIPMENT AND MATERIAL SHALL BE WITHIN LIMITS FOR WHICH IT WAS DESIGNED, TESTED AND APPROVED, IN CONFORMANCE WITH CURRENT PUBLICATIONS AND STANDARDS OF FOLLOWING ORGANIZATIONS: a. AMERICAN NATIONAL STANDARDS INSTITUTE – ANSI 		Jl
		P Jl
c. AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING		С
ENGINEERS – ASHRAE (STANDARD 90-75) d. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS – IEEE		IN Fl
		JI E
g. NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION – NECA		Ρ
 e. INSULATED CABLE ENGINEERS ASSOCIATION – ICEA f. NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION – NECA g. NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION – NEMA h. NATIONAL FIRE PROTECTION ASSOCIATION – NFPA i. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION – OSHA 		A A
j. UNDERWRITERS' LABORATORIES, INC. – UL k. RULES AND REGULATIONS OF THE STATE/LOCAL FIRE MARSHAL	G. REVII ARCH	
I. STANDARDS AND REQUIREMENT OF THE SERVING UTILITIES	HIS R	REP
m. STATE AND LOCAL ORDINANCES3. REGULATIONS - DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH	SPEC THE I	
APPLICABLE REGULATIONS AND GUIDELINES NOTED BELOW. CONTRACTOR SHALL CAREFULLY APPLY THESE REGULATIONS AND BRING ANY DISCREPANCIES	THE (H. TEMF	
TO IMMEDIATE ATTENTION OF ARCHITECT/ENGINEER.	1. El	LEC
a. AMERICANS WITH DISABILITIES ACT – ADA D. FEES AND PERMITS	a.	. Т Р
1. ELECTRICAL CONTRACTOR SHALL PAY FOR ALL PERMITS OR FEES IN CONNECTION WITH ELECTRICAL WORK. FEES SHALL INCLUDE ANY OR ALL USER		C
FEES, GOVERNMENT FEES, SYSTEM DEVELOPMENT FEES, CONNECTION FEES OR		A U
OTHER FEES THAT ARE REQUIRED TO BE PAID BEFORE SYSTEMS CAN BE CONNECTED OR USED.	b.	. Т Р
2. SCHEDULE ALL REQUIRED ELECTRICAL INSPECTIONS WITH LOCAL ELECTRICAL	C.	. TI
INSPECTOR. NOTIFY ENGINEER OF ALL ITEMS OF DISCREPANCY NOTED BY ELECTRICAL INSPECTOR IF THOSE ITEMS AFFECT COST OR FUNCTION OF		C C
SYSTEM, OR IF THEY CONFLICT WITH ELECTRICAL DRAWINGS AND	d.	. A U
SPECIFICATIONS. 3. ALL UTILITY COST AND FEES FROM THE UTILITY WORK SHALL BE THE	e.	. Т
RESPONSIBILITY OF THE OWNER. CONTRACTOR TO COORDINATE ALL UTILITY REQUIREMENTS, STANDARDS AND RESPONSIBILITIES WITH SERVING UTILITY FOR		L W
A COMPLETE SCOPE OF WORK PRIOR TO BID.	f.	Α
 DELIVER ALL INSPECTION CERTIFICATES TO ARCHITECT/ENGINEER PRIOR TO FINAL ACCEPTANCE OF WORK. 	2. O	T(FFI
 E. INTENT OF SPECIFICATIONS AND DRAWINGS 1. PLANS AND SPECIFICATIONS ARE INTENDED TO RESULT IN COMPLETE 		. T A
ELECTRICAL INSTALLATION IN FULL COMPLIANCE WITH ALL APPLICABLE CODES,		Т
STANDARDS AND ORDINANCES. 2. PLANS AND SPECIFICATIONS ARE TO SUPPLEMENT EACH OTHER AND ANY	b.	. C W
DETAILS CONTAINED IN ONE SHALL BE INCLUDED AS IF CONTAINED IN BOTH.		С
ELECTRICAL DRAWINGS SHALL SERVE AS WORKING DRAWINGS, BUT ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE IF ANY DIMENSIONAL	3. LA	
DISCREPANCIES EXIST. 4. DRAWINGS ARE PARTLY DIAGRAMMATIC AND DO NOT SHOW ROUTING OF	C	
CONDUITS, EXACT LOCATION OF PRODUCTS, OR INSTALLATION FEATURES IN	P	OR
EXACT DETAIL. LOCATIONS OF DEVICES, FIXTURES AND EQUIPMENT ARE APPROXIMATE UNLESS DIMENSIONED.	Tł 4. Pl	HEY RO
5. RISER DIAGRAMS AND CONTROL SCHEMATICS ARE NOT TO SCALE AND DO NOT	SI	HAL
SHOW PHYSICAL ARRANGEMENT OF EQUIPMENT. DO NOT USE RISER DIAGRAMS OR SCHEMATICS TO OBTAIN LINEAL CONDUIT AND CABLING DISTANCES.	0	IGN N T
 ITEMS ARE SHOWN ON DRAWINGS IN LOCATIONS TO MINIMIZE INTERFERENCE WITH OTHER EQUIPMENT, STRUCTURAL MEMBERS, ETC. EXACT FINISH 	TH 5. TH	HE (
LOCATIONS ARE NOT INDICATED, HOWEVER, AND ALL WORK SHALL BE DONE TO	C	ON
AVOID INTERFERENCE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.		EXTI WN
7. IN EVENT THAT DISCREPANCIES OF ANY KIND EXIST OR REQUIRED ITEMS/DETAILS		SR
HAVE BEEN OMITTED, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN WRITING OF SUCH DISCREPANCY OR OMISSION AT LEAST TEN DAYS PRIOR TO		
BID DATE. FAILURE TO DO SO SHALL BE CONSTRUED AS WILLINGNESS OF CONTRACTOR TO SUPPLY ALL NECESSARY MATERIALS AND LABOR REQUIRED		
FOR PROPER COMPLETION OF WORK.		
REVISIONS		
NTS MAY BE REDUCED.		
RIGINAL DRAWING.		

DR'S RESPONSIBILITY - CONTRACTOR SHALL BE RESPONSIBLE FOR ON OF COMPLETE AND FUNCTIONAL PIECE OF WORK IN ACCORDANCE INTENT OF CONTRACT DOCUMENTS. PROVIDE ALL INCID OR COMPLETE INSTALLATION AND SATISFACTORY OPE WHETHER OR NOT SPECIFICALLY NOTED IN CONTRACT CATIONS

- TRACTOR SHALL EMPLOY ON THIS PROJECT, CAPABLE, I RELIABLE FOREMAN AND SUCH SKILLED WORKMEN AS M IRED FOR VARIOUS CLASSES OF WORK TO BE PERFORI RE SPECIAL SKILLS AND CERTIFICATION ARE REQUIRED, . ENSURE THAT WORK IS PERFORMED BY INDIVIDUALS
- RIENCE, SKILL AND CERTIFICATION. ENGINEER'S OPINION, CONTRACTOR'S EMPLOYEES DO SSARY QUALIFICATIONS TO PERFORM SPECIALTY WORK BE REQUIRED TO OBTAIN SERVICES OF WORKMEN WHO ANUFACTURER AND CERTIFIED BY APPLICABLE AGENCY E WORKMEN, IF REQUIRED, SHALL BE PROVIDED AT NO /
- NSF ER TO OTHER SPECIFICATION SECTIONS FOR ADDITIONAL RACTOR QUALIFICATIONS AND CERTIFICATION. IG AND CERTIFICATION - ALL DIVISION 26 WORK SHALL B
- LISHED BY ELECTRICIANS, LICENSED BY STATE IN WHIC ERTIFIED AS REQUIRED, AND SKILLED IN THEIR CRAFT. ECT TO HIRE SUBCONTRACTORS FOR PORTIONS OF WOR DESCRIBED IN DIVISIONS 27 AND 28) WHO ARE NOT LIC CIANS, BUT HAVE REQUIRED CERTIFICATES AND ARE LIC NE BY STATE IN WHICH WORK IS BEING DONE. NATION
- TRACTOR SHALL CONSULT ALL CONTRACT DOCUMENTS /INGS OF OTHER TRADES, AND ACTUAL BUILDING DIMEN ETERMINE THAT HIS WORK AND EQUIPMENT WILL FIT AS SCALE DRAWINGS FOR FABRICATION. NO EXTRA PAYME ED FOR MATERIALS OR ITEMS WHICH DO NOT FIT BECAU RACTOR'S FAILURE TO VERIFY AS-BUILT BUILDING DIME
- RACTOR SHALL CHECK LOCATION OF FIXTURES, OUTLE UIT, ETC., TO DETERMINE THEY CLEAR ALL OPENINGS, BERS, PIPING, DUCTS AND MISCELLANEOUS EQUIPMENT FIONS.
- IGES IN LOCATION OF ELECTRICAL WORK, NECESSARY FACLES OR INSTALLATION OF OTHER TRADES SHOWN ON IMENTS, SHALL BE MADE BY ELECTRICAL CONTRACTOR
- RACTOR SHALL COORDINATE WITH PLUMBING AND MED TRACTORS TO AVOID INSTALLATION OF PIPING AND DUC ELOW PANELBOARDS IN VIOLATION OF NATIONAL ELECT
- OUT ALL WORK IN ADVANCE AND AVOID CONFLICT WITH RESS. PHYSICAL DIMENSIONS SHALL BE DETERMINED ITECTURAL AND STRUCTURAL PLANS. VERIFY LOCATION TION BOXES, DISCONNECT SWITCHES, STUB-UPS, ETC., IECTION TO EQUIPMENT FURNISHED BY OTHERS, OR IN (IONS OF THIS WORK.
- RACTOR SHALL COORDINATE AND PLAN WORK TO PROC OF OTHER TRADES.
- RACTOR SHALL INFORM GENERAL CONTRACTOR OF AL IINGS IN BUILDING STRUCTURE FOR INSTALLATION OF E PMFNT
- RACTOR SHALL CHECK DIMENSIONS OF ALL ELECTRICA LLED, PROVIDED BY HIMSELF OR BY OTHERS, SO CORR
- RANCES AND CONNECTIONS CAN BE MADE. ULTING ALL CONTRACT DOCUMENTS AND SHOP DRAW ES, CONTRACTOR SHALL DETERMINE WHERE ELECTRIC FION/PULL BOXES AND EQUIPMENT CAN BE INSTALLED ER ACCESSIBILITY. WHERE ACCESSIBILITY CANNOT BE IOUS PLACEMENT OF BOXES, ELECTRICAL CONTRACTO RDINATE WITH GENERAL CONTRACTOR TO PROVIDE, FAI ALL, ADJUST, PAINT, ETC. ACCESS DOORS THROUGH NO R, WALL, AND CEILING FINISHES TO ALLOW ACCESS TO TION AND PULL BOXES, ELECTRICAL DEVICES, ELECTRI AT ALL REQUIRED LOCATIONS WHETHER SHOWN OR NO . ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DE OCATION OF THE ACCESS DOORS. REPORT ANY CONF TECT/ENGINEER.
- WORK AND MATERIAL IS SUBJECT TO REVIEW AT ANY ENGINEER OR HIS REPRESENTATIVE. IF THE ARCHITEC ENTATIVE FINDS MATERIAL THAT DOES NOT CONFORM ONS OR THAT IS NOT PROPERLY INSTALLED OR FINISHE NCIES IN A MANNER SATISFACTORY TO THE ARCHITEC CTOR'S EXPENSE.
- FACILITIES CAL UTILITIES
- LECTRICAL CONTRACTOR SHALL PROVIDE TEMPORAR ER TO THE CONSTRUCTION SITE AS DIRECTED BY THE G RACTOR. NO CONNECTIONS TO THE OWNER'S SYSTEM WED WITHOUT OWNER'S WRITTEN APPROVAL. PROVIDE TY SERVICE AS REQUIRED.
- LECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY
- ER TO JOB TRAILERS AS DIRECTED BY THE GENERAL CO LECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY IUNICATIONS TO JOB TRAILERS AS DIRECTED BY THE GE RACTOR.
- OSTS ASSOCIATED WITH TEMPORARY POWER. COMMUN TY COST SHALL BE PAID BY TO THE GENERAL CONTRAC LECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY
- ING AS DIRECTED BY THE GENERAL CONTRACTOR TO P KING ENVIRONMENT.
- EMPORARY SERVICES ARE TO BE REMOVED IN THEIR EN CCUPANCY AS DIRECTED BY THE GENERAL CONTRACTO
- LECTRICAL CONTRACTOR MUST HAVE THE PERMISSION GENERAL CONTRACTOR OR CONSTRUCTION MANAGER ORARY OFFICE/JOB TRAILER ON THE PROJECT SITE.
- RACTOR SHALL COMPLETELY REMOVE HIS TEMPORAR I NO LONGER NEEDED AND THE PREMISES SHALL BE CC N, DISINFECTED, PATCHED, AND REFINISHED TO MATCH
- AND SCAFFOLDS THE ELECTRICAL AND LOW-VOLTAG TORS SHALL PROVIDE THEIR OWN LADDERS, SCAFFOL NTIAL CONSTRUCTION FOR ACCESS TO THEIR WORK IN Y NS OF THE BUILDING AS MAY BE REQUIRED. WHEN NO LO ALL BE REMOVED BY THE CONTRACTOR.
- TION DEVICES THE ELECTRICAL AND LOW-VOLTAGE CO ROVIDE AND MAINTAIN THEIR OWN NECESSARY BARRICA LIGHTS, ETC., REQUIRED BY ALL GOVERNING AUTHORITI DRAWINGS. WHEN NO LONGER NEEDED, THEY SHALL BE TRACTOR.
- ARY FIRE PROTECTION THE ELECTRICAL AND LOW-VOL CTORS SHALL PROVIDE ALL NECESSARY FIRST AID HAND ISHERS FOR CLASS A, B, C AND SPECIAL HAZARDS AS MA ORK AREA ONLY IN ACCORDANCE WITH GOOD AND SAFE JIRED BY JURISDICTIONAL SAFETY AUTHORITY.

ΒY

DATE

VERIFY SCALE!		
THESE PRINTS MAY BE REDUCED.	NO.	DESCRIPTION
LINE BELOW MEASURES ONE INCH		
ON ORIGINAL DRAWING.		
F		
MODIFY SCALE ACCORDINGLY!		
OTTED ON: 6/29/2022 1:17:30 PM		

ONSIBLE FOR	I. RECORD DOCUMENTS (AS-BUILT DRAWINGS)	 SAMPLES WHERE, IN ENGINEER/ARCHITECT'S OPINION, PRODUCT SAMPLES
N ACCORDANCE CIDENTAL ITEMS PERATION OF ALL .CT DOCUMENTS.	 SEE REQUIREMENTS REGARDING RECORD DOCUMENTS IN GENERAL DIVISION AND DIVISION 1. AT BEGINNING OF WORK, CONTRACTOR SHALL SET ASIDE ONE COMPLETE SET OF DRAWINGS WHICH SHALL BE MAINTAINED AS COMPLETE "AS-BUILT" SET. 	IN ORDER TO DETERMINE APPEARANCE, QUALITY, WORKMANS OPERATION, CONTRACTOR SHALL SUBMIT ACTUAL PRODUCTION ITEM IN QUESTION.
, EXPERIENCED	DRAWINGS SHALL BE UPDATED DAILY IN NEAT AND LEGIBLE MANNER AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. DRAWINGS, SPECIFICATION, ADDENDA,	 b. SAMPLES WILL BE RETURNED TO CONTRACTOR. APPROVED S BE USED.
S MAY BE DRMED. D, CONTRACTOR	CHANGE ORDERS, ETC. SHALL BE MAINTAINED AT JOB SITE AND AVAILABLE FOR REVIEW AT ANY TIME. 3. SHOW DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK THAT	 c. ALL COSTS INCURRED IN PROVIDING AND RETURNING SAMPLE CONTRACTOR'S RESPONSIBILITY. M. PRODUCT AND SYSTEM SUBMITTALS
S WITH REQUIRED	WILL BECOME PERMANENTLY CONCEALED, CAST IN CONCRETE OR BURIED UNDERGROUND.	 SUBMITTALS WILL BE REQUIRED FOR EACH PIECE OF EQUIPMENT PRODUCT AS NOTED IN THE TABLE BELOW. ALL SUBMITTAL SHALL
O NOT POSSESS DRK, CONTRACTOR	 SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO SYSTEMS SHOWN. 	SUBMITTED, REVIEWED AND ALL DISCREPANCIES ADDRESSED PR ORDERING EQUIPMENT OR STARTING WORK. ANY EQUIPMENT OF
HO ARE APPROVED CY OR GROUP.	5. SHOW PROVISIONS FOR FUTURE CONNECTION, REFERENCED TO BUILDING LINES OR APPROVED BENCH MARKS.	WITHOUT HAVING FIRST COMPLETED THE SUBMITTAL PROCESS IS RISK OF THE CONTRACTOR. ANY WORK PERFORMED PRIOR TO C SUBMITTAL PROCESS IS DONE AT THE RISK OF THE CONTRACTOF
O ADDITIONAL	 PROVIDE WIRING DIAGRAMS FOR ALL INDIVIDUAL COMMUNICATIONS SYSTEMS AS INSTALLED. IDENTIFY ALL COMPONENTS AND SHOW ALL WIRE AND TERMINAL NUMBERS AND CONNECTIONS. 	 2. SUBMITTAL DEFINITIONS a. PRODUCT DATA: PROVIDE MANUFACTURERS CUT SHEETS THAT
	7. AT COMPLETION OF PROJECT, DELIVER DRAWINGS TO ENGINEER FOR REVIEW. J. WARRANTY	GENERAL PRODUCT INFORMATION INCLUDING BUT NOT LIMITE NUMBER, PHYSICAL DATA, NOMINAL CAPACITIES, ROUGH-IN RI
ICH WORK IS BEING	1. THE CONTRACTOR SHALL GUARANTEE THAT ALL MATERIALS AND LABOR INSTALLED ARE NEW AND OF FIRST QUALITY AND THAT ANY MATERIAL OR LABOR	b. PERFORMANCE DATA: PROVIDE DETAILED PERFORMANCE ANI BASED ON PROJECT SPECIFIC REQUIREMENTS INCLUDING BU TO: VOLTAGE, DHASE, AMDERAGE, OVERCURRENT PROTECTION
ORK (SUCH AS LICENSED LICENSED IN THEIR	FOUND DEFECTIVE SHALL BE REPLACED WITHOUT COST TO THE OWNER WITHIN ONE (1) YEAR AFTER DATE OF FINAL COMPLETION OF THE CONTRACT OR ONE (1) FULL SEASON OF HEATING AND COOLING OPERATION, WHICHEVER IS THE	TO: VOLTAGE, PHASE, AMPERAGE, OVERCURRENT PROTECTIO SIZE, CONDUCTOR MATERIAL, CONDUIT SIZE, COLOR TEMPER/ RENDERING INDEX, LIFE EXPECTANCE, EFFICACY, EFFICIENCY
	GREATER. THE GUARANTEE SHALL LIST THE DATE OF THE BEGINNING OF THE ONE (1) YEAR PERIOD, WHICH SHALL BE THE DATE THAT THE DATE OF FINAL	LIGHT DISTRIBUTION TYPES AND LIGHTING CONTROL. c. SHOP DRAWINGS: PROVIDE DETAILED DRAWINGS OF THE EQU
FS, SHOP ENSIONS TO	COMPLETION CERTIFICATE IS ISSUED. 2. ANY DAMAGE TO THE BUILDING, CAUSED BY DEFECTIVE WORK OR MATERIAL OF	SHOWING OVERALL DIMENSIONS, LOCATION OF ELECTRICAL O LOCATION OF ANCHORAGE POINTS, LOCATION OF ELECTRICAL
AS PLANNED. DO MENT WILL BE AUSE OF	THE CONTRACTOR WITHIN THE ABOVE-MENTIONED PERIOD, SHALL BE SATISFACTORILY REPAIRED WITHOUT COST TO THE OWNER. 3. THE GUARANTEE DOES NOT INCLUDE MAINTENANCE OF EQUIPMENT. THE	PANELS, AND ALL OPERATING, SERVICE AND MAINTENANCE CI d. DELEGATED DESIGN: PROVIDE DETAILED DRAWINGS PREPARE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER THAT
MENSIONS. LETS, EQUIPMENT,	OWNER SHALL ACCEPT FULL RESPONSIBILITY FOR PROPER OPERATION AND MAINTENANCE OF EQUIPMENT IMMEDIATELY UPON SUBSTANTIAL COMPLETION	PERTINENT DESIGN CRITERIAL, THE MATERIALS AND PRODUCTIONS INSTALLED AND THE REQUIRED INSTALLATION LOCATIONS.
S, STRUCTURAL NT HAVING FIXED	AND OCCUPANCY OF THE BUILDING. 4. FINAL ACCEPTANCE BY THE OWNER WILL NOT OCCUR UNTIL ALL OPERATING	e. WIRING DIAGRAM: PROVIDE DIAGRAMS THAT IDENTIFY AND DE FIELD WIRING.
Y DUE TO ON CONTRACT	INSTRUCTIONS ARE MOUNTED IN EQUIPMENT ROOMS AND OPERATING PERSONNEL THOROUGHLY INDOCTRINATED IN THE OPERATION OF ALL ELECTRICAL EQUIPMENT BY THE CONTRACTOR.	 f. COLOR CHART: PROVIDE A PHYSICAL COLOR CHART OF MATEL REQUIRED FOR SELECTION OF EQUIPMENT COLORS. g. SUSTAINABILITY COMPLIANCE: PROVIDE LITERATURE THAT INE
DR AT NO EXTRA	 NO EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION. 	PRODUCTS COMPLIANCE WITH LEED OR GREEN GLOBES. SEE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
JCTWORK ABOVE	 K. MATERIALS AND EQUIPMENT 1. MANUFACTURER'S TRADE NAMES AND CATALOG NUMBERS LISTED ARE 	 SUBMITTAL FORMATS a. INCLUDE THE FOLLOWING INFORMATION WITH EACH SUBMITT
CTRICAL CODE. H OTHER WORK IN	INTENDED TO INDICATE THE QUALITY OF EQUIPMENT OR MATERIALS DESIRED. MANUFACTURERS NOT LISTED IN THE SPECIFICATION WILL BE CONSIDERED	 PROJECT NAME SUBMITTAL DATE NAME OF ARCHITECT
D FROM IONS FOR C., FOR	SUBSTITUTIONS AND MUST HAVE PRIOR APPROVAL. 2. SEE DIVISION 01 FOR SUBSTITUTIONS PROCEDURES. REQUESTS FOR SUBSTITUTION ARE TO BE SUBMITTED SUFFICIENTLY AHEAD OF THE DEADLINE,	 NAME OF ENGINEER NAME OF GENERAL CONTRACTOR OR CONSTRUCTION MAI
IN OTHER	TO GIVE AMPLE TIME FOR EXAMINATION. PRIOR APPROVAL REQUEST FOR SUBSTITUTION MUST INDICATE THE SPECIFIC ITEM OR ITEMS TO BE FURNISHED	 NAME OF SUB-CONTRACTOR NAME OF FIRM OR ENTITY THAT PREPARED THE SUBMITTAL
	IN LIEU OF THOSE SCHEDULED, TOGETHER WITH COMPLETE TECHNICAL AND COMPARATIVE DATA ON SCHEDULED ITEMS AND ITEMS PROPOSED FOR	 UNIQUE SUBMITTAL NUMBER TYPE OF SUBMITTAL SPECIFICATION SECTION
ALL REQUIRED	SUBSTITUTION. 3. IF THE ENGINEER APPROVES ANY PROPOSED SUBSTITUTION, THE APPROVED PRODUCT WILL BE LISTED IN AN ADDENDUM. BIDDERS SHALL NOT RELY ON	 NAME OR MARK OF EQUIPMENT OR MATERIAL AND DETAIL REFERENCE.
CAL EQUIPMENT RRECT	APPROVAL MADE IN ANY OTHER MANNER. 4. ELECTRICAL EQUIPMENT MAY BE INSTALLED WITH MANUFACTURER'S STANDARD	 ALL SUBMITTAL WITH THE EXCEPTION OF COLOR CHARTS OR SAMPLES SHALL BE ELECTRONICALLY TRANSMITTED PDF'S. A
WINGS OF OTHER	FINISH AND COLOR EXCEPT WHERE SPECIFIC COLOR, FINISH OR CHOICE IS INDICATED. IF THE MANUFACTURER HAS NO STANDARD FINISH, EQUIPMENT SHALL HAVE A PRIME COAT AND TWO FINISH COATS OF GRAY ENAMEL.	OVER 8 MB SHALL BE SETUP ON A SHARE FILE SITE AND ACCE THROUGH EMAIL WITH FOLDER'S LINK FOR DOWNLOAD. 4. SUBMITTAL REQUIREMENTS
RICAL D TO MAINTAIN BE MAINTAINED BY	 5. HIGH ALTITUDE OPERATION: CAPACITY OF ALL EQUIPMENT IS TO BE SIZED AND MANUFACTURED TO PERFORM AT THE ELEVATION OF THE PROJECT SITE. IF NOT 	a. SUBMITTALS SHALL BE SUBMITTED AS A COMPLETE SPECIFICA THE SUBMITTAL MUST INCLUDE ALL MATERIALS AND EQUIPME
TOR SHALL FABRICATE,	SPECIFICALLY INDICATED IN THE EQUIPMENT SCHEDULE OR IN THE SPECIFICATIONS PROVIDE ALL REQUIRED ACCESSORIES AND EQUIPMENT FOR	SPECIFICATION SECTION. SUBMITTALS FOR INDIVIDUAL MATER EQUIPMENT WILL BE REJECTED WITHOUT REVIEW.
ION-ACCESSIBLE O ALL ELECTRICAL RICAL EQUIPMENT,	PROPER OPERATION AT ELEVATION OF THE PROJECT SITE. 6. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL ALSO BE	b. SUBMITTALS SHALL BE COMPLETE, CLEARLY SHOW ITEM USEI DIMENSIONS, CAPACITY, ROUGH IN, ETC., AS REQUIRED FOR C CHECK AND INSTALLATION. MANUFACTURER'S LITERATURE SH
NOT SHOWN ON DETERMINING SIZE	RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT OF OTHERS FROM DAMAGE AS A RESULT OF HIS WORK.	THAN ONE ITEM SHALL BE CLEARLY MARKED AS TO WHICH ITE FURNISHED OR IT WILL BE REJECTED AND RETURNED WITHOU
	7. MANUFACTURED MATERIAL AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED AS DIRECTED BY	c. EACH SUBMITTAL SHALL BE THOROUGHLY CHECKED BY THE C FOR COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIRE ACCURACY OF DIMENSIONS, DELATIONS, UP TO THE WORK OF
NY TIME BY THE CT/ENGINEER OR M TO THESE	MANUFACTURER UNLESS HEREIN SPECIFIED TO THE CONTRARY. 8. THIS CONTRACTOR SHALL MAKE THE REQUIRED ARRANGEMENT WITH GENERAL CONTRACTOR OR CONSTRUCTION MANAGER FOR THE INTRODUCTION INTO THE	ACCURACY OF DIMENSIONS, RELATIONSHIP TO THE WORK OF TRADES, AND CONFORMANCE WITH SOUND, SAFE PRACTICES ERECTION AND INSTALLATION. EACH SUBMITTAL SHALL THEN
HED, CORRECT CT/ENGINEER AT	BUILDING OF EQUIPMENT TOO LARGE TO PASS THROUGH FINISHED OPENINGS. 9. STORE MATERIALS AND EQUIPMENT INDOORS AT THE JOB SITE OR, IF THIS IS	EVIDENCING SUCH CHECKING AND SHALL SHOW CORRECTION SUBMITTALS REQUIRING EXTENSIVE CORRECTIONS SHALL BE
	NOT POSSIBLE, STORE ON RAISED PLATFORMS AND PROTECT FROM THE WEATHER BY MEANS OF WATERPROOF COVERS. COVERINGS SHALL PERMIT	BEFORE SUBMISSION. EACH SUBMITTAL NOT STAMPED AND S GENERAL AND ELECTRICAL CONTRACTORS EVIDENCING SUCH WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
RY ELECTRICAL GENERAL	CIRCULATION OF AIR AROUND THE MATERIALS TO PREVENT CONDENSATION OF MOISTURE. SCREEN OR CAP OPENINGS IN EQUIPMENT TO PREVENT THE ENTRY OF VERMIN.	 d. ON EACH SUBMITTAL, CLEARLY INDICATE DEVIATIONS FROM R IN THE CONTRACT DOCUMENTS, INCLUDING MINOR VARIATION
	L. SUBSTITUTION OF MATERIALS - WHERE SUBSTITUTED EQUIPMENT REQUIRES STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK	LIMITATIONS; INCLUDE RELEVANT ADDITIONAL INFORMATION A OTHER THAN THOSE REQUESTED ON PREVIOUS SUBMITTALS.
	THAT DIFFERS FROM BASIC DESIGN, COST OF ALL CHANGES, INCLUDING RE-DESIGN, SHALL BE RESPONSIBILITY OF CONTRACTOR USING SUBSTITUTION.	HIGHLIGHTING ON EACH SUBMITTAL OR NOTING ON ATTACHED SHEET.
CONTRACTOR. RY GENERAL	 APPROVED MANUFACTURERS IN GENERAL, ONE PARTICULAR MANUFACTURER AND PART NUMBER OR SERIES IS LISTED TO DESCRIBE EQUIPMENT. EQUIVALENT EQUIPMENT OF 	e. REVIEW OF THE SHOP DRAWINGS AND LITERATURE BY THE EN NOT RELIEVE THE CONTRACTOR FOR RESPONSIBILITY FOR DE THE DRAWINGS OR SPECIFICATIONS, NOR SHALL IT RELIEVE T
IUNICATIONS AND	OTHER MANUFACTURERS LISTED FOR THAT ITEM MAY BE SUBSTITUTED WITHOUT PRIOR APPROVAL. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO	CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN THE SH OR LITERATURE. IT IS THE RESPONSIBILITY OF THE CONTRACT
	ENSURE THAT ITEM USED FOR BIDDING PURPOSES IS TRULY EQUIVALENT TO THAT SPECIFIED. IF IT IS NOT EQUIVALENT, IT WILL BE REJECTED AT SHOP DRAWING DEVIEW AND CONTRACTOR SHALL SUPPLY SPECIFIED ITEM AT US	MATERIALS AND EQUIPMENT WHICH MEET THE SPECIFICATION REQUIREMENTS. f. LUMINAIRES SUBMITTALS SHALL INCLUDE DIMENSIONS, QUALI
) PROVIDE A SAFE ENTIRETY PRIOR	DRAWING REVIEW AND CONTRACTOR SHALL SUPPLY SPECIFIED ITEM AT HIS OWN COST. b. IT IS UNDERSTOOD THAT MANUFACTURERS LISTED MAY NOT ACTUALLY HAVE	DISTRIBUTION, COLOR RENDERING INDEX, COLOR TEMPERATU PHOTOMETRICS, ALL LISTINGS (UL, DLC, ENERGY STAR, MADE
TOR.	EQUIVALENT PRODUCT TO THAT SPECIFIED. IF CONTRACTOR/DISTRIBUTOR HAS ANY QUESTIONS REGARDING DESIRED PRODUCT CHARACTERISTICS AND	ETC.), IP RATINGS, VOLTAGE, WATTAGE, WARRANTY, INSTALLA CONTROL METHODS, EFFICACY, EFFICIENCY, DIFFUSER OPTIO
ON OF THE OWNER R TO INSTALL A	SUITABILITY OF PROPOSED SUBSTITUTION, HE IS ENCOURAGED TO SUBMIT FOR PRIOR APPROVAL. ALSO, ANY MANUFACTURER NOT LISTED SHALL BE	EMERGENCY OPERATION AND ANY REQUIRED ACCESSORIES. AND REVIT FILES UPON REQUEST. 5. ENGINEER'S REVIEW - SUBMITTAL REVIEW IS FOR GENERAL DESI
RY INSTALLATIONS COMPLETELY	SUBMITTED FOR PRIOR APPROVAL. 2. PRIOR APPROVALS a. MANUFACTURERS NOT LISTED IN SPECIFICATION OR ON SCHEDULE FOR A	5. ENGINEER'S REVIEW - SUBMITTAL REVIEW IS FOR GENERAL DESIG ARRANGEMENT ONLY AND DOES NOT RELIEVE CONTRACTOR FRO REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS WILL I
CH ADJACENT	PARTICULAR ITEM ARE OPEN FOR SUBSTITUTION PRIOR TO BID OPENING ONLY.	CHECKED FOR QUANTITY, DIMENSION, FIT OR PROPER TECHNICA MANUFACTURED EQUIPMENT. WHERE PRODUCT OR SYSTEM PER
AGE OLDS, ETC. OF	b. MANUFACTURERS DESIRING APPROVAL SHALL SUBMIT CATALOG CUTS THAT DEFINE QUALITY OF PRODUCT AND ABILITY TO PERFORM AS SPECIFIED. IT IS UNDERPOSED THAT NO TWO MANUFACTURES UPEN TION. METHODO OF COMPANY AND ADDRESS OF THE ADDRESS	DEVIATIONS HAVE NOT BEEN SPECIFICALLY NOTED IN SUBMITTAL CONTRACTOR, ENGINEER'S REVIEW WILL NOT RELIEVE CONTRAC RESPONSIBILITY TO PROVIDE COMPLETE AND SATISFACTORY WC
N VARIOUS LONGER NEEDED,	UNDERSTOOD THAT NO TWO MANUFACTURES USE IDENTICAL METHODS OR MAKE IDENTICAL PRODUCTS. ANY AND ALL DEVIATIONS FROM THAT SPECIFIED SHALL BE CLEARLY NOTED.	INSTALLATION OF EQUAL QUALITY AND PERFORMANCE TO SPECI ORDERING, MANUFACTURE, SHIPMENT OR INSTALLATION OF EQU
CONTRACTORS ICADES, FENCES,	 c. SUBMITTALS SHALL ARRIVE AT ENGINEER AT LEAST TEN (10) DAYS PRIOR TO BID OPENING. ALL APPROVALS WILL BE LISTED IN LAST ADDENDUM AS BEING 	TO RECEIPT OF ENGINEER'S WRITTEN REVIEW IS STRICTLY AT CC RISK AND ALL COSTS ASSOCIATED WITH SHIPPING, CHANGES, RE
TIES OR SHOWN BE REMOVED BY	APPROVED TO BID. ITEMS SUBSTITUTED, BUT NOT LISTED IN CONTRACT DOCUMENTS, WILL NOT BE CONSIDERED IF SUBMITTED ON SHOP DRAWINGS.	RESTOCKING SHALL BE CONTRACTOR'S RESPONSIBILITY. N. SUB-CONTRACTORS - WITH SHOP DRAWING SUBMITTALS, CONTRACT
	d. APPROVAL OF SUBSTITUTE EQUIPMENT IS ON BASIS OF QUALITY ONLY. MATERIALS SUPPLIER SHALL BE RESPONSIBLE FOR HIS QUOTATION REFLECTING PROPER SELECTION OF HIS PARTICUL AR FOURMENT WITH	SUBMIT LIST OF ALL SUB-CONTRACTORS TO BE USED FOR THE PROJ
AND FIRE 6 MAY EXIST IN HIS FE PRACTICE AND	REFLECTING PROPER SELECTION OF HIS PARTICULAR EQUIPMENT WITH REGARD TO PROPER CAPACITIES, PHYSICAL DIMENSIONS, REQUIREMENTS, INTENDED FUNCTION, FINISH, COLOR, ETC. ENGINEER WILL NOT GIVE	
	APPROVAL TO SPECIFIC MODEL NUMBERS OR CHECK CAPACITIES, DIMENSIONS, OR REQUIREMENTS. EVALUATION WILL BE ON BASIS OF	
	QUALITY AND EQUALITY TO SPECIFIED ITEMS. e. PRIOR APPROVAL SHALL BE OBTAINED FROM ENGINEER AND NO OTHER ENTITY (ARCHITECT, OWNER, ETC.) IS AUTHORIZED TO GIVE SUCH APPROVAL.	
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engineers = surveyors = planners = scientists • 1470 Sugarland Drive, Suite 1, Sheridan, WY 82801 • 307.672.9310 • www.m-m.net COPYRIGHT © MORRISON-MAIERLE, 2022	Date 7-1-22 WYOMING	DATE: <u>7/1/2022</u> Q.C. REVIEW BY: <u>RM</u> DATE: <u>6/20/22</u>		ELI

<text></text>		SAMPLES a. WHERE, IN ENGINEER/ARCHITECT'S OPINION, PRODUCT SAMPLE IS REQUIRED IN ORDER TO DETERMINE APPEARANCE, QUALITY, WORKMANSHIP OR	 OPERATION AND MAINTENANCE MANUALS 1. OPERATION AND MAINTENANCE MANUALS (O&M MANUALS) SHALL CONTAIN: a. NAMES AND CONTACT INFORMATION FOR THE PROJECT ARCHITECT,
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	SU	BMIT LIST OF ALL SUB-CONTRACTORS TO BE USED FOR THE PROJECT.	

CONSTRUCTION PLANS JULY 2022

SHERIDAN COUNTY OOKS STREET GREENSPACE

WYOMING

PROJECT NUMBER 6017.002 SHEET NUMBER

28

E-2

ECTRICAL SPECIFICATIONS

DRAWING NUMBER

	FEEDERS: COPPER, TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY. BRANCH CIRCUITS: COPPER, TYPE THHN/THWN-2, SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER. SINGLE CONDUCTORS IN	Q.	1. F	POLYME	R-CONCRETE	FOR EXTERIOR HANDHOLES A	ND BOXE
C.	RACEWAY. CORD DROPS AND PORTABLE APPLIANCE CONNECTIONS: TYPE SO, CORD WITH		F	RESIN, AI	ND REINFOR	SAND AND AGGI CED WITH STEE	L, FIBERG
П	STAINLESS-STEEL, WIRE-MESH, STRAIN RELIEF DEVICE AT TERMINATIONS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120 V BRANCH CIRCUIT.					FLUSH BURIAL NSKID COVER S	
	0526 - GROUNDING AND BONDING		[DEVICES	LABELED WI	TH "ELECTRIC"	OR "COM"
	GROUNDING ELECTRODE CONDUCTOR: BARE COPPER, SIZED PER NEC 250.66.					CTE 77 WITH LC RAFFIC AREAS /	
	BONDING CONDUCTOR: BARE COPPER FOR LENGTHS OF 6 FEET OR LESS, COPPER			SAFE	TY FACTOR F	OR OCCASION	AL NON-DE
	WITH INSULATION IN PVC CONDUIT (METALLIC CONDUIT IN AIR PLENUM) WHERE LONGER THAN 6 FEET IN LENGTH. IF METALLIC CONDUIT IS USED, PROVIDE BONDING		k			EWAY, PARKING ASIONAL NON-D	
	BUSHING AT EACH END. SIZE PER NEC 250.102.		c			ROADWAYS AN	
C.	EQUIPMENT GROUND CONDUCTOR: COPPER WITH GREEN INSULATION (LARGER		2 1		CATIONS.	AND BOXES LE	
	WIRES MAY BE PERMANENTLY MARKED WITH GREEN), SIZED PER NEC 250.122. DO NOT RELY ON CONDUIT FOR THE GROUNDING PATH.					AND BOXES LE	
D.	GROUNDING CONDUCTORS OF ASSOCIATED FANS, BLOWERS, ELECTRIC HEATERS,					EQUIRED FOR P	
	AND AIR CLEANERS. INSTALL BONDING JUMPER TO BOND ACROSS FLEXIBLE DUCT CONNECTIONS TO ACHIEVE CONTINUITY. SIZE BONDING CONDUCTORS AND					ONE OR GRAVE ED TO SAME DE	,
	JUMPERS IN ACCORDANCE WITH NEC 250.122, USING THE RATING OF THE CIRCUIT					SO COVER SU	
E	THAT IS LIKELY TO ENERGIZE THE DUCTS. POLES SUPPORTING OUTDOOR LIGHTING FIXTURES: DO NOT INSTALL A GROUNDING			GRADE. S GRADE.	SET COVERS	OF OTHER ENC	LOSURES
∟.	ELECTRODE AT THESE LOCATIONS. BOND THE EQUIPMENT GROUNDING	26					OVOTEMO
	CONDUCTOR INSTALLED WITH BRANCH-CIRCUIT CONDUCTORS TO THE GROUNDING					CARRYING CIR	
~~~	TERMINAL AT THE POLE BASE.				R COLOR-CO		
	0533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS					BLACK, PHASE	
А.	MINIMUM RACEWAY SIZE: 1 INCH TRADE SIZE FOR TELECOM/DATA AND 3/4 INCH TRADE SIZE FOR ALL OTHER APPLICATIONS.			480 Y/2771 GRAY.	V: PHASE A -	BROWN, PHASE	E B - URAN
В.	INSTALL NONMETALLIC CONDUIT OR TUBING FOR PROTECTING BARE GROUNDING	-				PER OR GREEN	
C	CONDUCTORS. DO NOT INSTALL RACEWAYS OR ELECTRICAL ITEMS ON ANY "EXPLOSION-RELIEF"	C.				AVE AN IDENTI	
	WALLS OR ROTATING EQUIPMENT.					ETTERS FOR SE	
	DO NOT FASTEN CONDUITS ONTO THE BOTTOM SIDE OF A METAL DECK ROOF.		5	SHUT-OF	F SWITCHES		
E.	KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER					LETTERS FOR F ANSFORMERS.	
	AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.					LETTERS FOR I	
F.	ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE		5	STARTER	RS.		
Ģ	FINISHED SLAB. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY	Р				LETTERS FOR I RNING TAPE - II	
J.	CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS	ט.	FOR	DIRECT	-BURIED CAE	BLES AND CABL	ES IN RACE
	ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION. SUPPORT					ITINUOUS UNDE	
н	CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH IT IS ATTACHED. UNLESS BURIED, INSTALL ALL CONDUITS PARALLEL OR PERPENDICULAR TO					VAY AT 6 TO 8 IN WIDTH OF MUL	
	BUILDING LINES.		TRE	NCH OR	CONCRETE	ENVELOPE EXC	EEDS 16 IN
١.	INSTALL RACEWAYS SQUARE TO THE ENCLOSURE AND TERMINATE AT ENCLOSURES WITH LOCKNUTS. INSTALL LOCKNUTS HAND TIGHT PLUS 1/4 TURN MORE. DO NOT	E.				OARDS LABEL S PHASES AND V	
	RELY ON LOCKNUTS TO PENETRATE NONCONDUCTIVE COATINGS ON ENCLOSURES.		CUF	RRENT W	ITH DATE CA	LCULATED. INC	
	REMOVE COATINGS IN THE LOCKNUT AREA PRIOR TO ASSEMBLING CONDUIT TO		CIR	CUITS IN	THE LOCATIO	ON PROVIDED E	BY PANELB
J.	ENCLOSURE TO ENSURE A CONTINUOUS GROUND PATH. RACEWAYS MAY BE INSTALLED UNDER THE CONCRETE SLAB, BUT NO CONDUITS					RATING OWNER AND WITH PEN(	
0.	SHALL BE EMBEDDED WITHIN THE SLAB. DIRECT-BURIED CONDUIT - INSTALL					ROVIDE A LAMI	
	MANUFACTURED RIGID STEEL CONDUIT ELBOWS FOR STUB-UPS AT POLES AND		ELE	CTRICAL	SYSTEM AN	D ALL PANEL CO	ONFIGURA
	EQUIPMENT AND AT BUILDING ENTRANCES THROUGH FLOOR. ANY METALLIC CONDUIT THAT DOES OR MAY COME INTO CONTACT WITH SOIL SHALL BE COATED					TRIBUTION TRA	
	WITH TWO COATS OF BITUMASTIC OR TWO LAYERS OF 10 MIL. CORROSION	Α.				ALL BE FACTOR	
ĸ	PROTECTION TAPE. INSTALL FIRESTOPPING AT PENETRATIONS OF FIRE-RATED FLOOR AND WALL			TS FOR 6 ELS.	ULIT SEKVIC	E, COMPLYING \	ллн 10 CF
n.	ASSEMBLIES.	В.	. COF	PPER WI		. TWO 2.5% TAP	
L.	INSTALL SLEEVES AND SLEEVE SEALS AT PENETRATIONS OF EXTERIOR FLOOR AND					. COMPLY WITH	
	WALL ASSEMBLIES. INCLUDE CAST-IRON PIPE SLEEVES SIZED TO ALLOW FOR 1-INCH ANNULAR CLEAR SPACE BETWEEN RACEWAY OR CABLE AND SLEEVE FOR	С		EN FACT		ACCORDING T	
	INSTALLING SLEEVE-SEAL SYSTEM WHICH INCLUDES MANUFACTURED EPDM	5.	1. 3	SMALLEF	R THAN 30 KV	A: 180 DEG C, U	
	RUBBER INTERLOCKING LINKS SHAPED TO FIT SURFACE OF PIPE AND WITH NUMBER			SYSTEM		MUM OF 115 DE	G C RISE /
	REQUIRED FOR PIPE MATERIAL AND SIZE OF PIPE. INCLUDE STAINLESS STEEL PRESSURE PLATES AND CONNECTING BOLTS AND NUTS.					220 DEG C, UL-	COMPONE
М.	INDOOR RACEWAYS:		5	SYSTEM	WITH A MAXI	MUM OF 115 DE	
	1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.	Р		TEMPER/		E WITH KVA RAT	
	<ol> <li>EXPOSED AND SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT.</li> <li>CONCEALED IN NEW CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.</li> </ol>	ט.	ONL	Y AND N	OT RELYING	ON AUXILIARY I	FANS. NEM
	4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND				NCAPSULATE	D WITHIN RESI	
	HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.	F	AIR. . ENV		NT: ENCLOS	URES SHALL BE	RATED FO
	5. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.		THE	Y ARE LO	OCATED. CO	VERS FOR NEM	
	6. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 3R,	F			ESSIBILITY PI	ROBLEMS. ) TRANSFORME	RSIEVE
	NONMETALLIC IN DAMP OR WET LOCATIONS. 7. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND	ι.	FAB	RICATED	) BY TRANSF	ORMER MANUF	ACTURER.
	LOCATION.		WAI	L-MOUN	ITED AND ST	RUCTURE-HANG	
	8. RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIGID STEEL	Ģ			IER PROVIDE	ED. ED TRANSFORM	ERSIEVE
	CONDUIT FITTINGS, UNLESS NOTED OTHERWISE. 9. FLEXIBLE CONDUIT CONNECTIONS: MAXIMUM OF 72 INCHES OF FLEXIBLE	9				BRATION-DAMI	
	CONDUIT FOR RECESSED AND SEMI-RECESSED LUMINAIRES, EQUIPMENT		TRA	NSFORM	IERS AWAY F	ROM CORNERS	S AND NOT
	SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS. USE LFMC IN DAMP OR WET LOCATIONS					SIZE AND LOCA	
	SUBJECT TO SEVERE PHYSICAL DAMAGE. USE LFMC OR LFNC IN DAMP OR WET		TRA	NSFORM	IER TO CON	CRETE BASE AC	CORDING
	LOCATIONS NOT SUBJECT TO SEVERE PHYSICAL DAMAGE.					COVERS TO EN IMENDED TORC	
N.	OUTDOOR RACEWAYS: 1. EXPOSED CONDUIT: RIGID STEEL CONDUIT.		ivi/Al`				
	2. CONCEALED CONDUIT, ABOVE GROUND: EMT.						
	3. UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC, DIRECT BURIED. USE TYPE EPC-80-PVC UNDER PAVED SURFACES.						
	4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND						
	HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT):						
	LFNC. 5. BOXES AND ENCLOSURES, ABOVE GROUND: NEMA250, TYPE 3R.						
О.	5. BOXES AND ENCLOSURES, ABOVE GROUND: NEMA250, TYPE 3R. ENCLOSURES – BOXES AND ENCLOSURES FOR PANELBOARD, DISCONNECT SWITCH						
-	AND MOTOR CONTROL UNITS, ETC. BASED ON THE INSTALLATION						
	LOCATIONS/ENVIRONMENTS. 1. INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.						
	<ol> <li>INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.</li> <li>OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.</li> </ol>						
	3. OTHER WET OR DAMP, INDOOR LOCATIONS: NEMA 250, TYPE 4.						
	4. INDOOR LOCATIONS SUBJECT TO DUST, FALLING DIRT, AND DRIPPING NONCORROSIVE LIQUIDS: NEMA 250, TYPE 12.						
Ρ.	GENERAL BOX MOUNTING						
•	1. MOUNT BOXES AT HEIGHTS INDICATED ON DRAWINGS. IF MOUNTING HEIGHTS OF						
	BOXES ARE NOT INDIVIDUALLY INDICATED, GIVE PRIORITY TO ADA						
	REQUIREMENTS. INSTALL BOXES WITH HEIGHT MEASURED TO CENTER OF BOX UNLESS OTHERWISE INDICATED.						
	2. HORIZONTALLY SEPARATE BOXES MOUNTED ON OPPOSITE SIDES OF WALL SO						
	THEY ARE NOT IN THE SAME VERTICAL CHANNEL. 3. LOCATE BOXES SO THAT COVER OR PLATE WILL NOT SPAN DIFFERENT BUILDING						
	3. LOCATE BOXES SO THAT COVER OR PLATE WILL NOT SPAN DIFFERENT BUILDING FINISHES.						
	4. FASTEN JUNCTION AND PULL BOXES TO OR SUPPORT FROM BUILDING						
	STRUCTURE. DO NOT SUPPORT BOXES BY CONDUITS. 5. SET METAL FLOOR BOXES LEVEL AND FLUSH WITH FINISHED FLOOR SURFACE.						
	FY SCALE! REVISIONS						
'ERI							
NTS	MAY BE REDUCED. NO. DESCRIPTION				DATE	BY	
NTS N M					DATE	Вү	

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# ROUND WIRING

S WITH POLYMER-CONCRETE BOUND TOGETHER WITH POLYMER B. MAXIMUM HEIGHT CABINET GLASS, OR A COMBINATION OF THE EN BOTTOM UNO. INCLUDE

BY TAMPER-RESISTANT LOCKING ' AS INDICATED ON DRAWINGS. NGS AS FOLLOWS: EWALK APPLICATIONS WITH A ELIBERATE VEHICULAR TRAFFIC.

D OFF-ROAD APPLICATIONS TE HEAVY VEHICULAR TRAFFIC. DELIBERATE VEHICULAR TRAFFIC

PLUMB AND WITH ORIENTATION G CONDUITS TO MINIMIZE BENDS INTRANCES. SUPPORT ON A LEVEL ED FROM 1/2-INCH SIEVE TO NO. 4 ADJACENT UNDISTURBED EARTH. /ILL BE FLUSH WITH FINISHED ES 1 INCH (25 MM) ABOVE FINISHED

ITHIN BUILDINGS.

PHASE C - BLUE, NEUTRAL - WHITE. NGE, PHASE C - YELLOW, NEUTRAL -

LABEL, BLACK LETTERS ON A IRCUIT THAT FEEDS IT. ISCONNECT AND EMERGENCY

ARDS, SWITCHBOARDS, RELAY

ECT SWITCHES AND MOTOR

OVERPLATES. NDERGROUND-LINE WARNING TAPE CEWAYS. DURING BACKFILLING OF ND-LINE WARNING TAPE DIRECTLY ELOW FINISHED GRADE. USE NES INSTALLED IN A COMMON

INCHES OVERALL. CLUDE - PANEL NAME, VOLTAGE, OURCE AND AVAILABLE FAULT PEWRITTEN DIRECTORY OF BOARD MANUFACTURER. INDICATE

ROOM DESIGNATIONS. SPARES AIN DISTRIBUTION PANEL DOOR / NE-LINE DIAGRAM OF THE

IBLED AND TESTED, AIR-COOLED CFR 431 (DOE 2016) EFFICIENCY

AND TWO 2.5% TAPS BELOW 20 STANDARD SOUND LEVELS

ONENT-RECOGNIZED INSULATION ABOVE 40 DEG C AMBIENT

ENT-RECOGNIZED INSULATION ABOVE 40 DEG C AMBIENT

SED ON CONVECTION COOLING MA 250, TYPE 2 OR TYPE 3R CORE UND TO SEAL OUT MOISTURE AND

FOR THE ENVIRONMENT IN WHICH PE 4X ENCLOSURES SHALL NOT

AND PLUMB WITH WALL BRACKETS R. COORDINATE INSTALLATION OF PORTS WITH ACTUAL

EL AND PLUMB ON A 4-INCH

UPPORTS. LOCATE T PARALLEL TO ADJACENT WALL CONCRETE BASES WITH ACTUAL INSERTS INTO BASES. SECURE G TO MANUFACTURER'S WRITTEN E AND TIGHTEN ALL BOLTS TO REDUCE NOISE GENERATION.

262416 - PANELBOARDS

- A. FLUSH AND SURFACE-MOUNTED ENCLOSURES (AS NOTED ON PLANS) WITH DEAD-FRONT CABINETS. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
- a. STANDARD: 84 INCHES TO TOP OF ENCLOSURE (SO THAT MAXIMUM HEIGHT OF HIGHEST BREAKER IS 78 INCHES MAXIMUM).
- C. INCOMING MAINS LOCATION: TOP OR BOTTOM AS DETERMINED BY CONTRACTOR, BASED ON FIELD CONDITIONS, UNO. D. HARD-DRAWN COPPER PHASE, NEUTRAL, AND GROUND BUSES WITH 98 PERCENT CONDUCTIVITY. MECHANICAL TYPE LUGS WITH A LUG ON THE NEUTRAL AND GROUND BARS FOR EACH BREAKER POLE IN THE PANELBOARD. CONDUCTOR
- CONNECTORS SHALL BE <u>SUITABLE FOR USE WITH CONDUCTOR MATERIAL,</u> <u>QUANTITY AND SIZES (</u>REFER TO THE FEEDER SCHEDULE). E. PANELBOARD SHORT-CIRCUIT CURRENT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. ASSEMBLY
- SHALL BE LISTED BY AN NRTL FOR 100 PERCENT INTERRUPTING CAPACITY. ALL OVERCURRENT PROTECTIVE DEVICES (OCPDS) SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. NO SERIES RATING WILL BE ALLOWED F. BRANCH OVERCURRENT PROTECTIVE DEVICES - BOLT-ON CIRCUIT BREAKERS OR
- PLUG-IN CIRCUIT BREAKERS WHERE INDIVIDUAL POSITIVE-LOCKING DEVICE REQUIRES MECHANICAL RELEASE FOR REMOVAL. REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE ONLY AND SUITABLE FOR INDIVIDUAL AS WELL AS PANELBOARD MOUNTING. NO BREAKERS DESIGNATED "PLUG-ON" TYPE ALLOWED UNLESS SPECIFICALLY NOTED ON PLANS.
- G. BREAKERS SHALL BE ONE-, TWO-, OR THREE-POLE AS SCHEDULED, OPERATE MANUALLY FOR NORMAL ON-OFF SWITCHING AND AUTOMATICALLY UNDER OVERLOAD AND SHORT CIRCUIT CONDITIONS.
- H. THE OPERATING HANDLE SHALL OPEN AND CLOSE ALL POLES SIMULTANEOUSLY ON MULTI-POLE BREAKERS. THE OPERATING MECHANISM SHALL BE TRIP-FREE SO THAT CONTACTS CANNOT BE HELD CLOSED AGAINST ABNORMAL OVERCURRENT OR SHORT CIRCUIT CONDITIONS. DO NOT USE SINGLE-POLE CIRCUIT BREAKERS WITH HANDLE TIES WHERE MULTI-POLE BREAKERS ARE INDICATED ON THE PANEL SCHEDULE OR WHERE REQUIRED FOR POLY-PHASE LOADS.
- I. BREAKERS SHALL BE OF THE TYPE NOTED ON PANEL SCHEDULE (SHUNT-TRIP, GFI, ARC-FAULT, ETC.) OR AS REQUIRED BY THE EQUIPMENT BEING PROVIDED. J. BREAKERS NOTED AS GFI PROTECTED FOR EQUIPMENT SHALL HAVE A 30mA OR
- GREATER TRIP. K. BREAKERS NOTED AS GFI PROTECTED FOR PERSONNEL SHALL HAVE A 6mA TRIP. L. A CONTROL TRANSFORMER WITH PRIMARY AND SECONDARY FUSING SHALL BE
- PROVIDED AS REQUIRED FOR CONTROL OF SHUNT-TRIP BREAKERS. M. DESIGN OF DISTRIBUTION PANELBOARDS IS GENERALLY BASED ON THE SQUARE D, I-LINE PANELBOARD. DESIGN OF LIGHTING AND APPLIANCE BRANCH PANELBOARDS
- IS BASED ON THE SQUARE D NQ AND NF SERIES PANELBOARDS N. ARRANGE CONDUCTORS IN GUTTERS INTO GROUPS AND BUNDLE AND WRAP WITH WIRE TIES.

265110 - LED LIGHTING

- A. GENERAL ALL FIXTURES SHALL HAVE LED LIGHT SOURCES UNO.
- 1. INTERNAL, FACTORY INSTALLED BALLAST/DRIVER UNO. 2. DIMMABLE FROM 100% TO 10% OF MAXIMUM LIGHT OUTPUT.
- 3. NOMINAL OPERATING VOLTAGE: AS NOTED ON THE PLANS.
- 4. LENS THICKNESS: AT LEAST 0.125 INCH MINIMUM UNO.
- 5. OUTDOOR FIXTURES: MINIMUM CRI OF 65 UNO AND CCT OF 3000K UNO. 6. OUTDOOR FIXTURES SHALL HAVE FULL CUT-OFF REFLECTORS WITH MOUNTING TYPE AND DISTRIBUTION AS NOTED ON PLANS.
- B. LED ASSEMBLIES UL RATED FOR 40 DEGREE C AMBIENT ENVIRONMENTS, 50,000 HOUR FIXTURE LIFE INCLUDING DRIVER, 5 YEAR WARRANTY AND COMPLIANT WITH IESNA LM-79 AND LM-80 STANDARDS.
- C. STANDARDS UNO, COMPLY WITH THE FOLLOWING: 1. ENERGY STAR OR DESIGN LIGHTS CONSORTIUM (DLC) CERTIFIED.
- 2. NRTL COMPLIANCE: LUMINAIRES FOR HAZARDOUS LOCATIONS SHALL BE LISTED AND LABELED FOR INDICATED CLASS AND DIVISION OF HAZARD BY AN NRTL. 3. UL LISTING: LISTED FOR DAMP AND/OR WET LOCATIONS AS REQUIRED.
- 4. RECESSED LUMINAIRES SHALL COMPLY WITH NEMA LE 4. 5. EXTERIOR LUMINAIRES SHALL HAVE INTERNATIONAL DARK-SKY ASSOCIATION (IDA) - FIXTURE SEAL OF APPROVAL (FSA).
- D. STEEL POLES POWDER COATED, ROUND OR SQUARE TO BEST MATCH FIXTURE STRAIGHT FOR POLES UP TO 25 FEET, TAPERED FOR POLES GREATER THAN 25 FEET. INCLUDE VIBRATION DAMPER. PROVIDE BUTT FLANGE FOR BOLTED MOUNTING ON FOUNDATION, OR BREAKAWAY SUPPORT AS REQUIRED. PROVIDE OVAL SHAPED HANDHOLE, MINIMUM CLEAR OPENING OF 2-1/2 BY 5 INCHES, WITH COVER SECURED BY STAINLESS-STEEL CAPTIVE SCREWS.
- E. COORDINATE BOLLARD AND POLE LIGHT LOCATIONS WITH CIVIL DRAWINGS, UTILITY MAPS AND GRADING PLANS. INCLUDING ANY/ALL CONTRACTUAL CLARIFICATIONS OR CHANGES. LIGHTING FIXTURES ON SITE PLANS ARE SHOWN IN SCHEMATIC FORM AND ARE NOT TO SCALE.
- 1. VERIFY FINISH GRADE HEIGHT PRIOR TO SETTING BASES. 2. POLE LIGHT LOCATIONS ARE BASED ON ACCURATE LIGHTING CALCULATIONS BUT MAY NEED TO BE SHIFTED SLIGHTLY TO PROPERLY ALIGN THE FIXTURES AESTHETICALLY AND TO AVOID ENCROACHMENT ON TRAVEL LANES, PARKING
- SPOTS, CURBS, SIDEWALKS, OVERHEAD UTILITY LINES, TRAFFIC SIGNALS, ETC. 3. BOLLARD LOCATIONS MAY BE SHIFTED AS REQUIRED TO ALLOW FOR AESTHETIC ALIGNMENT AND TO APPROPRIATELY LIGHT AND FOLLOW THE SIDEWALK, TRAIL OR OTHER LANDSCAPING FEATURES AS NOTED ON THE PLANS.



DRAWN BY: <u>TJ</u>

DSGN. BY: TJ

APPR. BY: JK

Q.C. REVIEW

BY: <u>RM</u>

DATE: 6/20/22

DATE: 7/1/2022

E

YOMIN

CONSTRUCTION PLANS JULY 2022

WYOMING

6017.002

PROJECT NUMBER

DRAWING NUMBER

**E-3** 

SHEET NUMBER

29

SHERIDAN COUNTY **BROOKS STREET GREENSPACE** 

					LUMINAIRE	SCH	EDULE	
TYPE	LAMPS	LOAD (W)	OUTPUT (LM, NOMINAL)	CCT (K)	DESCRIPTION		MFR	
E1	LED	69 W	8,619	3000K	POST TOP ACORN GLASS REFLECTOR DOME FIXTUR TYPE 3 OPTICS, FULL CUT OFF UPPER REFLECTOR ON A 14' DECORATIVE POLE. CUSTOM/ CITY OF SHEI STANDARD FIXTURE	MOUNTED	HADCO/ MOUNTAIN STATES LIGHTING	HEAD: \$ 14EFA-\$ LEG-TT/
E2	LED	25 W	1,498	3000K	50 1/2" HIGH LED DECORATIVE BOLLARD WITH ALUMII CONSTRUCTION, 25W LED BOARD, TYPE 3 OPTICS & PAINTED FINISH: WINE RED #RAL 3005		SPRING CITY ELEC MFG	ABCHN 3005-E\
E3	LED	25 W	1,581	3000K	50 ½" HIGH LED DECORATIVE BOLLARD WITH ALUMI CONSTRUCTION, 25W LED BOARD, TYPE 5 OPTICS & PAINTED FINISH: WINE RED #RAL 3005		SPRING CITY ELEC MFG	ABCHN 3005-E\
<u>NOTES:</u> 1. ALTER	RNATE FIXTUR	E IS NOT AC	CEPTED FOR SUB	STITUTION		PREVENT SE	DTE: ICAL CONTRACTOR RVICE DISRUPTION XTURES SHALL MEE	S.



Location: BOILER ROOM Supply From: XFRMR LST Mounting: Surface Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

		Load											Load		
СКТ	Circuit Description	Classification	Trip	Poles		<b>A</b>	В		C	;	Poles	Trip	Classification	Circuit Description	СКТ
	LTG - SOUTH ( PARKING & SIDEWALK)	Lighting	20 A	1	350	540					1	20 A	Receptacle	RCPT - SITE PERGOLA	2
3	LTG - NORTH & CENTER SIDEWALK	Lighting	20 A	1			375	540			1	20 A	Receptacle	RCPT - SITE SITTING WALL	4
5	LIGHTING CONTROL PANEL	Power	20 A	1					250	125	1	20 A	Power	IRRIGATION CONTROLLER	6
7	SPARE		20 A	1	0	0					1	20 A		SPARE	8
9	SPARE		20 A	1			0	0			1	20 A		SPARE	10
11	SPARE		20 A	1					0	0	1	20 A		SPARE	12
13	SPARE		20 A	1	0	0					1	20 A		SPARE	14
15	SPARE		20 A	1			0	0			1	20 A		SPARE	16
17	SPARE		20 A	1					0	0	1	20 A		SPARE	18
19	SPARE		20 A	1	0	0					1	20 A		SPARE	20
21	SPARE		20 A	1			0	0			1	20 A		SPARE	22
23	SPARE		20 A	1					0	0	1	20 A		SPARE	24
25	SPARE		20 A	1	0						1			SPACE	26
27	SPARE		20 A	1			0				1			SPACE	28
29	SPARE		20 A	1					0		1			SPACE	30
31	SNOW MELT ZONE CONTROLLERS	Power	20 A	1	600	0					1	20 A		SPARE	32
33	RCPT - GLYCOL FEEDER	Receptacle	20 A	1			720	0			1	20 A		SPARE	34
35	BOILER & PUMP - SNOW MELT SYSTEM	Power; Motor	20 A	1					1200	0	1	20 A		SPARE	36
37					937	0					1	20 A		SPARE	38
39	SNOW MELT SYSTEM BASE PUMP, P-1	Motor	20 A	3			937	0			•				40
41									937	0	2	60 A		FOR FUTURE GENERATOR ACCESSORY PANEL	L 42
	1		Tota	Load:	242	7 VA	2572	VA	2512	2 VA					
				Amps:		) A	22		21						
Leger															
	Classification			ected L	oad	De	mand Fact	or	Estin	nated Der	mand			Panel Totals	
Lightir	-			25 VA			125.00%			906 VA					
Motor				410 VA			120.60%			4113 VA			Total Conn. Load: 7510 VA		
Power				575 VA			100.00%			1575 VA			Total Est. Demand: 8394 VA		
Recep	otacle		18	800 VA			100.00%			1800 VA			Total Conn.: 21 A		
													٦	Fotal Est. Demand:   23 A	
Notes	:														
1															

egena:	

Load Classification	Connected Load	Demand Factor	Estimated Demand	
Lighting	725 VA	125.00%	906 VA	
Motor	3410 VA	120.60%	4113 VA	
Power	1575 VA	100.00%	1575 VA	
Receptacle	1800 VA	100.00%	1800 VA	

VERIFY SCALE!		REVISIONS			
THESE PRINTS MAY BE REDUCED. LINE BELOW MEASURES ONE INCH ON ORIGINAL DRAWING.	NO.	DESCRIPTION	DATE	BY	
UN UNGINAL DIAWING.					
MODIFY SCALE ACCORDINGLY!					
PLOTTED ON: 6/29/2022 1:17:32 PM					

			-
CATALOG NO. OR SERIES	MOUNTING	VOLTAGE	NOTES
S8717M POLE: -5.0/14S-ESSEX(RD) T/3"x3"-BK	14' POLE	120 V	1
NC-15-4.21-LT-LEO25-COLOR RAL VX-1HC-30CR3-YCOLO-HC5	SITE/ GRADE	120 V	1
NC-15-4.21-LT-LEO25-COLOR RAL VX-1HC-30CR5-YCOLO-HC5	SITE/ GRADE	120 V	1

VERIFY ALL SITE UTILITY'S PRIOR TO INSTALLING LIGHT FIXTURE TO

COMPLY WITH THE "BUY AMERICAN" ACT

A.I.C. Rating:	6,146
Mains Type:	MCB
Mains Rating:	125 A

MCB Rating: 125 A

MARK	DESCRIPTION	ELECTR	ICAL DATA	CONTROL		NOTES -	DISCONNECT / STARTER		DISCONNECT			Г	FEEDER	
	DESCRIPTION	LOAD	VOLT-PHASE	TYPE	DIV	NOTES	TYPE	DIV	SIZE (NEMA)	SWITCH (AMPS)		ENCLOSURE (NEMA)	COPPER WIRE (AWG)	CONDUI (INCHES
MECHAN	ICAL EQUIPMENT										1			
AGF-1	AUTOMATIC GLYCOL FEEDER	0.7 W	120 - 1	INT	23/23	-	RCPT	26/26	-	-	-	1	#12	3/4"
B-1	BOILER	8 MCA	120 - 1	INT	23/26	6	MSS	26/26	-	-	-	1	#12	3/4"
BP-1	BOILER PUMP	5.6 MCA	115 - 1	BLR	23/26	-	MSS	26/26	-	-	-	1	#12	3/4"
P-1	HYDRONIC PUMP	2 HP	208 - 3	BLR	23/26	-	VFD	23/26	-	-	-	-	#12	3/4"
HCP INT L MS OS PS T C UC VE	INTERLOCK WITH EXHAUST FAN HOOD CONTROL PANEL INTEGRAL LIGHT SWITCH MANUAL SWITCH OCCUPANCY SENSOR PRESSURE SWITCH THERMOSTAT TIME CLOCK UNIT CONTROLLER VEHICLE EXHAUST DETECTION SYSTEM NOT APPLICABLE	FST FW MOCP MSS NFD RCPT RVSS VFD N/A	FUSTAT FACTORY-WIRE MOTOR OVER-C MANUAL START REQUIRED) NON-FUSED DIS 20A DUPLEX RE REDUCED VOLT VARIABLE FREQ NOT APPLICABL	URRENT PRC ER SWITCH W CONNECT CEPTACLE (G AGE SOLID-S QUENCY DRIVI	OTECTION VITH THERM GFCI PROTE TATE	AL OVERLOAD	<b>X</b>						/. 23, WIRED BY DIV /. 26, WIRED BY DIV	
	INTEGRAL DISCONNECTS AND OVERLOADS INTEGRAL OVERLOADS									I WALL CC	NSTRUCT	FION, ABOVE CEI	LING, OR RUN IN CO	ONDUIT.

MOUNT ON UNI-STRUT IN FRONT OF UNIT SIZE FUSES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR INSTALLED EQUIPMENT INTEGRAL VARIABLE FREQUENCY DRIVE 7.

6.



Ressional Engine	DRAWN BY:
240 L. APREY L. APR	DSGN. BY: TJ
	APPR. BY: JK
perfecter 1/ 1/10	DATE: <u>7/1/2022</u>
Date	Q.C. REVIEW
7-1-22	BY: RM
WYOMING	DATE: 6/20/22

SGN. BY: <u>TJ</u> PR. BY: JK SHERIDAN DATE: <u>7/1/2022</u> Q.C. REVIEW BY: <u>RM</u> DATE: <u>6/20/22</u>

- NEUTRAL IS REQUIRED PRIOR TO ROUGH-IN. C. ALL DUCT SMOKE DETECTORS FURNISHED BY DIV. 26, INSTALLED BY DIV. 23, AND WIRED BY DIV. 26. DIV. 26 SHALL WIRE ALL FANS TO SHUT DOWN WHEN ALARM IS INITIATED BY ANY DUCT SMOKE DETECTOR.

**CONSTRUCTION PLANS** 

JULY 2022 PROJECT NUMBER

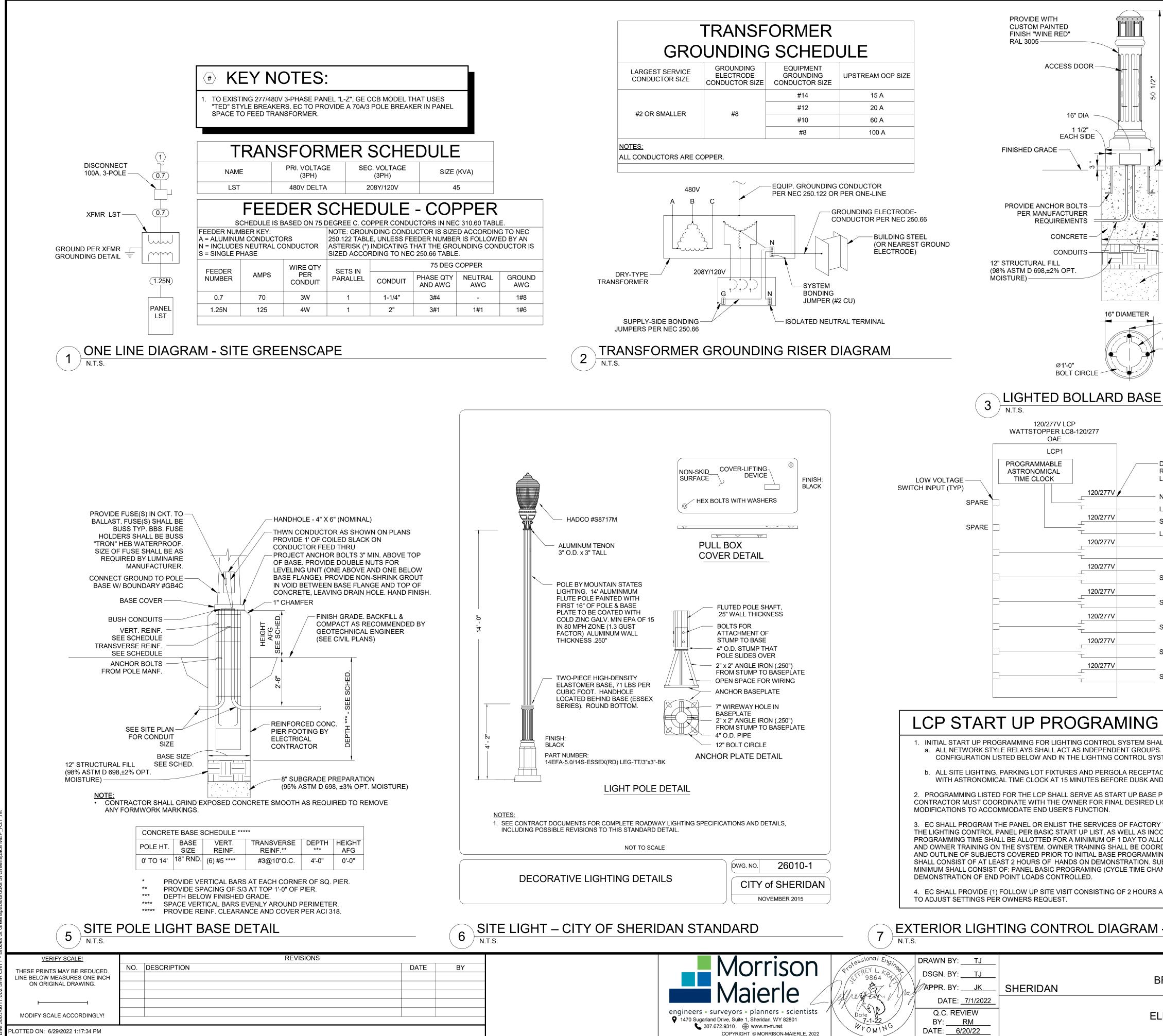
SHERIDAN COUNTY BROOKS STREET GREENSPACE

WYOMING

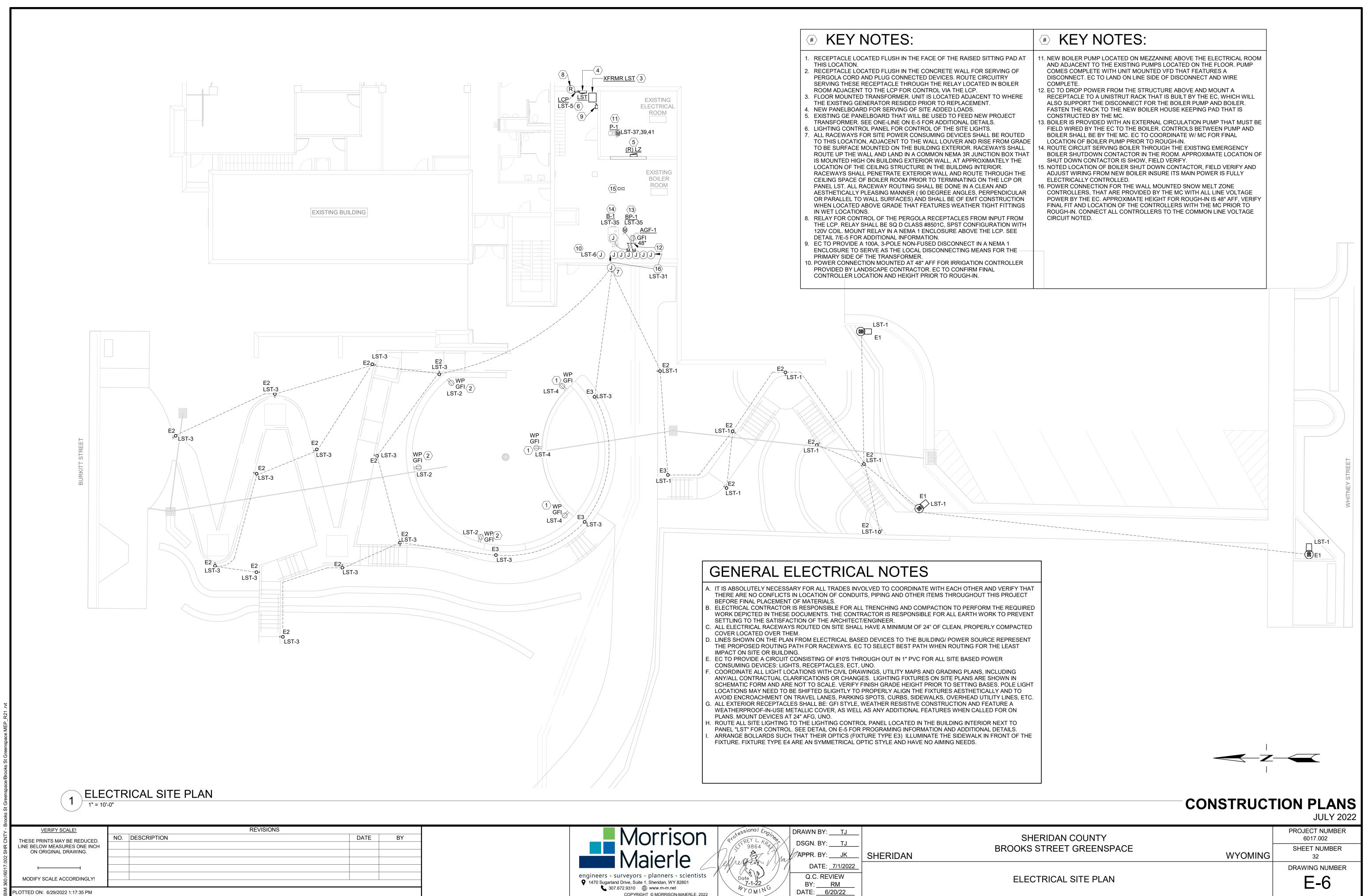
6017.002 SHEET NUMBER 30

ELECTRICAL SCHEDULES

DRAWING NUMBER E-4



CC	SURFACE TO MATCH EXISTING. PROVIDE NEW INCRETE, ASPHALT, SEED, OR EXISTING SOD AS QUIRED. SEE SPECS FOR MATERIAL AND	
	STALLATION REQUIREMENTS.	
PER LANDSCAPE ARCHITECT		
<u></u>	WARNING TAPE	
- 0 "0	(SEE CIVIL PLANS)	24" MIN
2'-0	CONDUIT(S) AND WIRE	
	SAND OR CLEAN SOIL	
1' - 6" MIN.		
8" SUBGRADE PREPARATION		
(95% ASTM D 698, ±3% OPT. MOISTURE)	NOTES: 1. WIDTH: MINIMUM 6" 2. WHERE POSSIBLE PUSH CONDUIT UNDE	
	DRIVES TO AVOID EXCAVATION. 3. CONTRACTOR MAY USE BORING MACHI	NE IN LIEU OF
€ OF HAND HOLE Ø8 3/4"	TRENCHING WHERE CONDITIONS PERM CONDUIT SHALL BE PRE-APPROVED BY ARCHITECT/ENGINEER.	IT. EQUIPMENT AND
CLEAR OPENING — PROVIDE ANCHOR BOLTS	TRENCH DETAIL - SING	
PER MANUFACTURER REQUIREMENTS. 17" DIA	4 INCH DETAIL - SING	
DETAIL		
DUAL SINGLE POLE		
RELAY MODULE LCSP-2 (TYP)		
NORTH SITE (PARKING AND SIDEWALK)		
SOUTH SITE (SIDEWALK) _ST-1		
BPARE LST-2 RELAY, SQ D 85 IN NEMA 1 ENCL ALLOW FOR CO	OSURE TO	
PERGOLA RECE FROM THE LCP.	PTACLES	
SPARE		
SPARE		
SPARE		
SPARE		
LL BE AS FOLLOWS:		
. PROGRAMMING SHALL OPERATE IN TEM SCHEDULE.		
CLES SHALL BE PROGRAMMED FOR ON D OFF AT 15 MINUTES AFTER DAWN.		
PROGRAMMING. THE ELECTRICAL GHT CYCLE TIMES AND ANY OTHER		
TRAINED PERSONNEL TO PROGRAM		
ORPORATING ALL OWNER REQUESTS. OW FOR PROGRAMMING, DIAGNOSTIC		
DINATED WITH OWNER FOR DATE, TIME NG OF THE PANEL. THE TRAINING BJECTS TO BE COVERED AT A		
NGES), PANEL FUNCTIONS AND		
AT 8 MONTHS AFTER SYSTEM START UP		
- LCP	CONSTRUCT	
		JULY 2022
SHERIDAN COUNTY		PROJECT NUMBER 6017.002
ROOKS STREET GREENSPAC	CE WYOMING	SHEET NUMBER 31
ECTRICAL DETAILS & ONE-LI	NE	
	····	E-5



tessional Engine	DRAW
LEFREY L. APP	DSG
reference / Mul	[
Date	Q
7-1-22 WX 2-11NG	BJ

SGN. BY:	TJ
PPR. BY:	JK
DATE:	7/1/2022
Q.C. RE	VIEW
BY:	RM

-RI	DA	N	

# ABBREVIATIONS

INSIDE DIAMETER

IRON PIPE SIZE

INDUCTION UNIT

INLET GUIDE VANES

INTEGRAL FACE & BYPASS

ACC ACU AD AF AFF AFG AFR AFS AHU AP ATC ATM	AIR COOLED CONDENSER AIR CONDITIONING UNIT ACCESS DOOR ADJUSTABLE AIR FOIL ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ABOVE FINISHED ROOF AIR FLOW STATION AIR HANDLING UNIT ACCESS PANEL AUTOMATIC TEMPERATURE CONTROL ATMOSPHERE	ID IFB IGV IPS IU KW KW LAT LF LW
AWG B BB BC BD BF BHP BI BMS BOD BOJ	-	M MB MB MC MF MS NC NC NC NO
	COMMON CONSTANT AIR VOLUME COOLING COIL COUNTER CLOCKWISE CUBIC FEET PER MINUTE CHILLER CONTROLS & INSTRUMENTATION CEILING CONCRETE MASONRY UNIT CONDENSATE CONTINUATION CORRIDOR COOLING TOWER CONDENSING UNIT CABINET HEATER CONTROL VALVE STATION CLOCKWISE	OA OB PC PD PH PR PR PSI PSI QT R RA
DH	DECIBEL DRY BULB TEMPERATURE (°F) DIRECT DIGITAL CONTROL DUCT HEATER DEW POINT TEMPERATURE (°F) DIRECT EXPANSION	RD RF RH RH SA SA
EAT EC EDR EF EFF ELEV ERV ESP ET	EXHAUST EXHAUST AIR ENTERING AIR TEMPERATURE (°F) ELECTRICAL CONTRACTOR EQUIVALENT DIRECT RADIATION ENERGY EFFICIENCY RATIO EXHAUST FAN EFFICIENCY ELEVATION ENERGY RECOVERY VENTILATOR EXTERNAL STATIC PRESSURE EXPANSION TANK ENTERING WATER TEMPERATURE (°F)	SC SD SEI SP SS SS T TA TCI TCI
FC FP	FLOAT & THERMOSTATIC FACE AREA FORWARD CURVED FAN COIL FIRE PROTECTION FEET PER MINUTE FEET	TOI TOI TOI TSI TYI UH UN
	GAUGE OR GAGE GENERAL CONTRACTOR GENERATOR GRAVITY HOOD GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE	UV VA VD VEI VFI VRI
H HC HG HOA HP HR HX	HUMIDIFIER HEATING COIL MERCURY HAND-OFF-AUTOMATIC HORSEPOWER HOUR HEAT EXCHANGER	WB WC WS WS

10	
KW KWH	KILOWATTS KILOWATT HOUR
LF	LEAVING AIR TEMPERATURE (°F) LINEAR FEET LEAVING WATER TEMPERATURE (°F)
MB MBH	MOTOR OPERATED MAKEUP AIR UNIT MIXING BOX 1000 BTU/HR MECHANICAL CONTRACTOR MANUFACTURER MINI-SPLIT
NC NIC	NOISE CRITERIA NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN NOMINAL PIPE SIZE
OAD	OUTSIDE AIR OUTSIDE AIR DAMPER OPPOSED BLADE DAMPER
PD PH PHC PPM PROP	PUMP PLUMBING CONTRACTOR PRESSURE DROP PHASE PREHEAT COIL PART PER MILLION PROPELLER PRESSURE REDUCING VALVE PSI, ABSOLUTE PSI, GAUGE
QTY	QUANTITY
R RA RD RF RH RHC	
SAF SC SCFM SD SEER SENS SP	SUPPLY AIR SUPPLY AIR FAN SENSIBLE COOLER CFM, STANDARD CONDITIONS SMOKE DETECTOR SEASONAL ENERGY EFFICIENCY RATIO SENSIBLE STATIC PRESSURE STATIC PRESSURE SENSOR STAINLESS STEEL
T TA TCC TCP TG TOD TOP TOS TSP TYP	
UH UNC UV	UNIT HEATER UNDERCUT UNIT VENTILATOR
VA VAV VD VEL VFD VRF	VOLT-AMPERE VARIABLE AIR VOLUME VOLUME DAMPER VELOCITY VARIABLE FREQUENCY DRIVE VARIABLE REFRIGERANT FLOW
WC WG	WET BULB TEMPERATURE (°F) WATER COLUMN WATER GAUGE WATER SOURCE HEAT PUMP
۸T	

TEMPERATURE DIFFERENCE (°F)

VERIFY SCALE!		REVISIONS		
THESE PRINTS MAY BE REDUCED.	NO.	DESCRIPTION	DATE	BY
LINE BELOW MEASURES ONE INCH				
ON ORIGINAL DRAWING.				
MODIFY SCALE ACCORDINGLY!				
PLOTTED ON: 6/29/2022 11:45:05 AM				

		MECHANICAL LEGEND	
ANNOTATI	ON SYMBOLS	HVAC PIPING	VALVES
	— 3D VIEW NUMBER — SHEET NUMBER		
	— DETAIL NUMBER	— – — CWS — – — CHILLED WATER SUPPLY	
	- SHEET NUMBER	— – – — CWR — – – — CHILLED WATER RETURN	
X		— CTS — COOLING TOWER SUPPLY	
	AIR DEVICE MARK AND CFM		
	AIR DEVICE MARK AND CFM - PROVIDE OPPOSED BLADE DAMPER		BUTTERFLY VALVE
OBD		HPWR HEAT PUMP WATER RETURN	
CFM RD	AIR DEVICE MARK AND CFM - PROVIDE RADIAL DAMPER	— – – – — HPS — – – – — HIGH PRESSURE STEAM	++ STRAINER
<u>ME-#</u>	MECHANICAL EQUIPMENT MARK	MPS MEDIUM PRESSURE STEAM	
<u>(E) ME-#</u>	EXISTING MECHANICAL EQUIPMENT	— — — LPS — — LOW PRESSURE STEAM	AUTOFLOW VALVE
<u>(D) ME-#</u>	DEMOLISHED MECHANICAL EQUIPMENT	CND STEAM CONDENSATE RETURN	
$\bigcirc$	POINT OF NEW CONNECTION	— – — ATV — – — ATMOSPHERIC VENT	
	POINT OF DISCONNECTION	REF REFRIGERANT (LIQUID AND SUCTION)	
	ITROL SYMBOLS	PIPE FITTINGS	TEMPERATURE AND PRE
	THERMOSTAT	ELBOW	
(T) (T) ^{#M}			
	ZONED THERMOSTAT - MASTER		
	THERMOSTAT W/ LOCKABLE COVER		PIPING SPECIALTIES
\$	WALL SWITCH		
H	HUMIDISTAT		MANUAL AIR VENT - 1/4" I 12" SOFT COPPER TUBE
T	ROOM TEMPERATURE SENSOR		
T	ADJUSTABLE ROOM TEMPERATURE SENSOR		
C/A	COMBO ROOM TEMPERATURE & CO2 SENSOR		
T	ADJUSTABLE COMBO ROOM TEMP & CO2 SENSOR		——
Н	ROOM HUMIDITY SENSOR	BLIND FLANGE	FS FLOW SWITCH
С	ROOM CO2 SENSOR		
Р	BUILDING PRESSURE SENSOR	GENERAL	P PRESSURE GAUGE
SP	STATIC PRESSURE SENSOR	(E) NAME EXISTING PIPE TO REMAIN	P PRESSURE GAUGE & CO
DP	DIFFERENTIAL PRESSURE SENSOR	(D) NAME EXISTING PIPE TO BE DEMOLISHED	T TEMPERATURE GAUGE
CO/NO	CARBON MONOXIDE / NITRIC OXIDE SENSOR	NAME NEW PIPING	
		DIRECTION OF FLOW	
			ANCHOR
	S A STANDARD LEGEND. NOT ALL PIPE TYPES AND		
STMBOLS AR	E NECESSARILY UTILIZED IN THE DRAWINGS.		



	Ressional Engine	DRAWN B
	16362 01	DSGN. B
	King English	APPR. B
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5	Date	Q.C.
	7-1-22 WK 2011 NG	BY:
~	MINO YOMINO	DATE:

RAWN BY: <u>DT</u>	
DSGN. BY: <u>DT</u>	
APPR. BY: <u>RT</u>	SHERIDAN
DATE: <u>7/1/2022</u>	
Q.C. REVIEW	
BY: MC	
DATE: <u>6/20/22</u>	

B	F

AINER & SHUTOFF VALVE

FLOW & SHUTOFF VALVE

VALVE

SEE SPECIFICATIONS FOR TYPE

VALVE

IG VALVE

PRESSURE RELIEF VALVE

E CONTROL VALVE

E CONTROL VALVE

/4" BALL VALVE WITH RF

ATURE PORT

SENSOR

COCK

N LOOP

# MECH. GENERAL NOTES

INSTALLATION: A. NEW PIPING, DUCTWORK AND EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE CURRENTLY ADOPTED INTERNATIONAL

- MECHANICAL AND INTERNATIONAL BUILDING CODES. B. EQUIPMENT SHALL BE INSTALLED LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS INDICATED ON PLAN. OBSERVE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THEIR
- INTENDED FUNCTION. C. INSTALL EQUIPMENT, DUCTWORK, AND PIPING SO AS TO MAINTAIN CODE REQUIRED CLEARANCES FOR ELECTRICAL AND TELECOMMUNICATION EQUIPMENT.
- D. ELEMENTS PENETRATING BUILDING COMPONENTS (ROOF ASSEMBLIES, WALL ASSEMBLIES, ETC.) SHALL BE SEALED WEATHER AND WATER TIGHT. COORDINATE PENETRATIONS WITH GENERAL CONTRACTOR TO PATCH TO THE SATISFACTION OF THE ARCHITECT OR ENGINEER.

## COORDINATION:

- A. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FIELD COORDINATE THE LOCATION OF EQUIPMENT, ROUTING OF DUCTWORK, AND ROUTING OF PIPING WITH OTHER TRADES.
- B. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO REVIEW THE DRAWINGS OF OTHER DISCIPLINES AND PROVIDE THE NECESSARY LABOR AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

## ELECTRICAL COORDINATION:

A. SEE THE MEP COORDINATION SCHEDULE FOR ELECTRICAL INFORMATION. COORDINATE WITH OTHER TRADES TO ENSURE THAT ELECTRICAL DISCONNECTS, MOTOR STARTERS, VARIABLE FREQUENCY DRIVES, CONTROLS, AND ELECTRICAL ACCESSORIES ARE FURNISHED AND/OR INSTALLED BY THE APPROPRIATE TRADE.

- FREEZE PROTECTION: A. THE MECHANICAL CONTRACTOR SHALL FILL THE HYDRONIC SYSTEMS WITH THE FOLLOWING SOLUTION: a. HEATING HOT WATER SYSTEM: 50% PROPYLENE GLYCOL & 50% DISTILLED WATER - GLYCOL SHALL INCLUDE CORROSION
- INHIBITORS. B. HEATING HOT WATER SYSTEMS WITH BOILERS THAT HAVE ALUMINUM HEAT EXCHANGERS SHALL USE HERCULES CRYO-TEK 100 / AL PROPYLENE GLYCOL OR APPROVED EQUAL PRODUCT.
- C. SEE SPECIFICATION SECTION 232113 FOR ADDITIONAL CHEMICAL TREATMENT REQUIREMENTS.

SITE ELEVATION: A. EQUIPMENT SHALL BE SELECTED FOR THE PROJECT ELEVATION OF 3,750'.

## **BUY AMERICAN REQUIREMENT:**

A. MATERIALS USED ON THIS PROJECT ARE SUBJECT TO THE FEDERAL BUY AMERICAN REQUIREMENT. PROJECT SUBMITTALS MUST BE ACCOMPANIED WITH THE APPROPRIATE BUY AMERICAN CERTIFICATION OR IF MATERIALS CANNOT MEET THE REQUIREMENT, CONTRACTOR SHALL SUBMIT A WAIVER USING THE FORM PROVIDED IN THE PROJECT SPECIFICATIONS. BUY AMERICAN REQUIREMENTS MUST BE LISTED IN THE PRODUCT DATA SUBMITTAL OR SUBMITTAL WILL BE REJECTED. THE PRODUCTS AND MANUFACTURERS SCHEDULED IN THE DRAWINGS ARE FOR BASIS OF DESIGN ONLY, AND DO NOT NECESSARILY CONFORM WITH BUY AMERICAN REQUIREMENTS.

# HVAC SHEET INDEX

NUMBER	SHEET NAME
M-1	MECHANICAL COVER SHEET
M-2	MECHANICAL SPECIFICATIONS
M-3	MECHANICAL SCHEDULES & DETAILS
M-4	MECHANICAL DETAILS
M-5	MECHANICAL SNOWMELT PLAN
W O	

# **CONSTRUCTION PLANS**

# JULY 2022 PROJECT NUMBER

SHERIDAN COUNTY BROOKS STREET GREENSPACE

6017.002 SHEET NUMBER 33

MECHANICAL COVER SHEET

WYOMING

DRAWING NUMBER



GENERAL 1. THE MECHANICAL SCHEDULED IN TH TOGETHER WITH	HESE SP	ECIFICATIONS /	AND THE AC	COMPANYI	NG DRAV	VINGS.	ALL MA	TERIAL	, EQUIF	MENT, AND I	LABO	R SHALL BE	
2. EXAMINE AND RE SPECIFICATIONS FACILITIES FOR V WORK AND COST	FER TO FOR CO ERIFICA	ALL ARCHITECT NSTRUCTION C TION OF PRESE	URAL, CIVIL	, STRUCTU WHICH MAY	RAL, ELE Y AFFECT	CTRICA	L, UTILI ⁻ ECHANI	TY, LAN ICAL W	IDSCAF ORK. IN	E AND MECH		AL DRAWIN	AND EXISTING
3. ALL WORK ON TH REGULATIONS IN HAVING JURISDIC	E PROJE CLUDE, I	ECT SHALL CON											
4. THE MECHANICAL UNDER THEIR CO	AND EL						OR AND	PAY FO	OR ALL	FEES AND PE	ERMIT	IS REQUIRI	ED FOR WORK
5. ALL USAGE CONT FEES, ETC., FOR OWNER.	RACTS	BETWEEN THE	OWNER AND	THE SERV	ING UTIL	ITIES CO							
ESPONSIBILITY THE MECHANICAL ACCORDANCE WI ACCESSORIES AN INDICATED ON TH	ITH THE	INTENT OF THE R REQUIRED FO	DRAWING A	ND SPECIF	ICATION	S. PROV	/IDE, AT	NO EX	TRA CO	DST, ALL INCI	IDENT	AL ITEMS,	MATERIALS,
THE DRAWINGS E INSTALLATION; AN DRAWINGS AND S THE WORK COVE	O NOT A ND REFE SPECIFIC	ATTEMPT TO SH RENCE IS THEF CATIONS AND TO	IOW COMPLI REFORE REC O SHOP DRA	ETE DETAIL QUIRED TO WINGS OF	THE ARC	HITECT	URAL, C	CIVIL, S	TRUCTI	JRAL, LANDS	SCAPE	E AND ELEC	CTRICAL
LOCATION OF ME COMPONENTS OF CONSULTED AND	OTHER	SYSTEMS HAV	ING FIXED LO	OCATIONS.	IN THE E	EVENT O	F ANY (	CONFLI	CTS, TH	IE ARCHITEC	CT/EN	GINEER SH	
DO NOT INSTALL ANY WORK INSTA													CT/ENGINEER.
ALL MODIFICATIO SPECIFIED SHALL OTHER THAN THE SYSTEMS, FIRE P EXPENSE.	BE MAD	DE AT THE CONT	RACTOR'S E	EXPENSE, ⁻ PMENT RE(	THIS INCL QUIRES N	UDES V	VORK B ATIONS	SY OTHE	R TRAI	DES. IF THE I RE, ELECTRI	INSTA	LLATION O	F EQUIPMENT PLUMBING
. ALL WORK TO BE	PERFOR	RMED SHALL FIF	RST BE SCHE	EDULED AN	ID SUBMI	TTED TO	O THE C	OWNER	'S REPF	RESENTATIVE	E FOF	R ACCEPTA	NCE.
THE CONTRACTO													I BE
PERFORMED TO	THE LEV	EL OF ACCEPTA	NCE OF THE	E OWNER'S	S REPRES	SENTATI	IVE & TH	HE ENG	INEER.				
THE CONTRACTO WORKMANSHIP F	OR A PE									BE FREE OF	DEFE	2015 OF M/	ATERIALS AND
ENT OF DRAWINGS A THE DRAWINGS A SPECIFICALLY DIN OF THE EQUIPME DRAWINGS FOR F AND ACTUAL FIEL	RE PAR MENSION NT. THE PIPING A	NED. RISER AND Y SHALL NOT BE ND DUCTWORK	OTHER DIA E USED FOR FABRICATIO	GRAMS AR OBTAINING	E SCHEN G LINEAL DERING. D	IATIC AN RUNS C DISCREP	ND DO N DF PIPIN PANCIES	NOT NE IG OR E S SHOV	CESSA UCTW /N ON [	RILY SHOW 1 ORK, NOR SH DIFFERENT P	THE P HALL ⁻ PLANS	HYSICAL A THEY BE US , OR BETW	RRANGEMENT
ATERIALS AND EQU MANUFACTURER' FOR INSTALLATIC SUBSTITUTIONS V	S TRADE	E NAMES AND C RNATIVE EQUIP	MENT OR M										
WRITTEN PRIOR A TO BID OPENING. EXAMINATION. PR THOSE SCHEDUL SUBSTITUTION.	REQUE	STS FOR SUBS	TITUTION AR ST FOR SUB	RE TO BE SI STITUTION	UBMITTE	D SUFFI	CIENTL' THE SF	Y AHEA PECIFIC	D OF T ITEM C	HE DEADLINE OR ITEMS TO	E TO ( BE FI	GIVE AMPLI URNISHED	È TIME FOR IN LIEU OF
HIGH ALTITUDE O PROJECT SITE. IF ACCESSORIES AN	NOT SP	ECIFICALLY IND	ICATED IN T	HE EQUIPM	<b>MENT SCH</b>	HEDULE	OR IN 1	THE SP	ECIFICA				
STORE MATERIAL FROM THE WEAT PREVENT CONDE	HER BY	MEANS OF WAT	ERPROOF C	OVERS. CO	OVERING	S SHALL	_ PERMI	IT CIRC	ULATIO	N OF AIR AR	OUNE	D THE MATE	
. ALL NEW PIPING S AT A MAXIMUM OI												PLICABLE - /	AND MARKED
IFY SCALE!					REV	ISIONS							
S MAY BE REDUCED. EASURES ONE INCH	NO.	DESCRIPTION								DATE		BY	-
NAL DRAWING.													-

MODIFY SCALE ACCORDINGLY!

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# **SPECIFICATIONS**

CODE.

## MATERIALS AND EQUIPMENT (CONT.)

- 6. SEE MECHANICAL PIPING SCHEDULE ON THE DRAWINGS FOR MATERIAL AND INSULATION REQUIREMENTS.
- VERIFY THE LOCATION OF SENSORS WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- 8. PROVIDE AND INSTALL SEISMIC BRACING FOR ALL EQUIPMENT AND PIPING PER THE REQUIREMENTS OF THE INTERNATIONAL BUILDING
- 9. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE-CAULKING ALL FIRE-RATED AND SMOKE-RATED WALL PENETRATIONS OF PIPING, DUCTWORK, ETC.
- 10. PROVIDE ACCESS DOORS TO ALLOW SERVICE AND INSPECTION OF EQUIPMENT, VALVES, DAMPERS AND DEVICES INSTALLED ABOVE NON-REMOVABLE CEILINGS.

## SHOP DRAWINGS AND SUBMITTALS

1. WITHIN 30 DAYS OF AWARDING OF THE CONTRACT, THE MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR SUBMITTALS FOR ALL SCHEDULED EQUIPMENT AND MATERIALS INCLUDED IN THE CONSTRUCTION DOCUMENTS.

- 2. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE IN THE FORM OF ELECTRONICALLY TRANSMITTED PDFS. SHOP DRAWINGS AND SUBMITTALS SHALL INCLUDE SHOP DRAWINGS AND LITERATURE SHOWING ITEMS TO BE USED, SIZE, DIMENSIONS, CAPACITY, ROUGH-IN, AND ANY OTHER INFORMATION NECESSARY FOR A COMPLETE REVIEW. MANUFACTURER'S LITERATURE SHOWING MORE THAN ONE ITEM SHALL BE CLEARLY MARKED AS TO WHICH ITEM IS BEING FURNISHED OR IT WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
- 3. EACH SUBMITTED ITEM MUST BE CLEARLY MARKED WITH THE PROJECT NAME, DATE, BRANCH OF WORK, SUBMITTING PARTY, REVISION NUMBER, AND ASSOCIATED SCHEDULE. SUBMITTALS NOT IDENTIFIED AS DESCRIBED ABOVE WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
- 4. PRIOR TO THEIR SUBMISSION, EACH SUBMITTAL SHALL BE THOROUGHLY CHECKED BY THE CONTRACTOR FOR COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIREMENTS. EACH SUBMITTAL SHALL THEN BEAR A STAMP EVIDENCING SUCH CHECKING AND SHALL SHOW CORRECTIONS MADE, IF ANY, SUBMITTALS REQUIRING EXTENSIVE CORRECTIONS SHALL BE REVISED BEFORE SUBMISSION TO THE ENGINEER. EACH SUBMITTAL NOT STAMPED AND SIGNED BY THE CONTRACTOR EVIDENCING SUCH CHECKING WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
- 5. REVIEW OF THE SHOP DRAWINGS AND LITERATURE BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FOR RESPONSIBILITY FOR DEVIATIONS FOR THE DRAWINGS OR SPECIFICATIONS. NOR SHALL IT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN THE SHOP DRAWINGS OR LITERATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE MATERIALS AND EQUIPMENT WHICH MEET THE SPECIFICATIONS AND JOB REQUIREMENTS.

## REVIEW & SITE INSPECTIONS

1. ALL WORK AND MATERIAL IS SUBJECT TO REVIEW AT ANY TIME BY THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE. IF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE FINDS MATERIAL THAT DOES NOT CONFORM TO THESE SPECIFICATIONS OR THAT IS NOT PROPERLY INSTALLED OR FINISHED, CORRECT THE DEFICIENCIES IN A MANNER SATISFACTORY TO THE ARCHITECT/ENGINEER AT THE CONTRACTOR'S EXPENSE.

## STARTUP, TESTING AND OWNER TRAINING

- 1. ENGAGE A FACTORY AUTHORIZED REPRESENTATIVE TO CONDUCT AN INSPECTION OF THE INSTALLATION OF THEIR COMPANIES EQUIPMENT PRIOR TO START-UP OF ANY EQUIPMENT. THE REPRESENTATIVE SHALL SUBMIT A REPORT IDENTIFYING ANY DEFICIENCIES TO THE ARCHITECT, ENGINEER AND CONSTRUCTION MANAGER. ANY DEFICIENCIES IDENTIFIED SHALL BE ADDRESSED PRIOR TO START-UP. START-UP SHALL BE CONDUCTED BY A FACTORY AUTHORIZED REPRESENTATIVE. STARTUP REPORTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER ONCE COMPLETED.
- 2. NEW AIR AND WATER SYSTEMS SHALL BE BALANCED IN THEIR ENTIRETY TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH NEBB STANDARDS. APPROVED TEST AND BALANCE CONTRACTORS ARE: AIR COMMANDER, TEST COMM, RGO INC., AND PRECISION
- 3. THE MECHANICAL CONTRACTOR SHALL PROVIDE 4 HRS OF TRAINING TO THE OWNER TO ENSURE THE OWNER KNOWS HOW TO OPERATE THE SYSTEMS INSTALLED UNDER THE MECHANICAL CONTRACT. PROVIDE AN ADDITIONAL 4 HRS OF ADDITIONAL SERVICE THROUGH THE FIRST YEAR OF OPERATION TO ADDRESS QUESTIONS THAT MAY ARISE.

## PROJECT CLOSEOUT

- . THE MECHANICAL CONTRACTOR SHALL MAINTAIN AT THE PROJECT SITE, A "RECORD SET OF DRAWINGS" SHOWING FIELD CHANGES, AS-BUILT ELEVATIONS, UNUSUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION, AND SUCH OTHER DATA AS REQUIRED TO PROVIDE THE OWNER WITH AN ACCURATE "AS CONSTRUCTED" SET OF RECORD DRAWINGS. THE CONTRACTOR SHALL FURNISH THIS "RECORD SET" TO THE ENGINEER FOLLOWING THE FINAL INSPECTION OF THE PROJECT.
- 2. THE MECHANICAL CONTRACTOR SHALL PROVIDE AN "OPERATION AND MAINTENANCE MANUAL" (0&M MANUAL) PRIOR TO THE COMMENCEMENT OF OWNER TRAINING. THE O&M MANUAL SHALL BE PROVIDED IN DIGITAL OR THREE PAPER COPIES (BOUND & LABELED) FORMAT AS REQUESTED BY THE ENGINEER OR OWNER. THE O&M MANUAL SHALL CONSIST OF A TITLE PAGE, TABLE OF CONTENTS, AND MANUAL CONTENTS. THE MANUAL CONTENTS SHALL CONSIST OF PRODUCT DATA INFORMATION, PRODUCT SERVICE/MAINTENANCE MANUAL, AND EXECUTED WARRANTY FOR EACH AND ALL EQUIPMENT AND PRODUCTS INSTALLED UNDER THE SCOPE OF THIS PROJECT.
- 3. THE CONTRACTOR SHALL GUARANTEE THAT MATERIALS AND LABOR INSTALLED ARE NEW AND OF FIRST QUALITY AND THAT ANY MATERIAL OR LABOR FOUND DEFECTIVE SHALL BE REPLACED WITHOUT COST TO THE OWNER WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE CONTRACT OR ONE (1) FULL SEASON OF HEATING OPERATION, WHICHEVER IS THE GREATER.

Maierle

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engineers - surveyors - planners - scientists

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**&** 307.672.9310 **(** www.m-m.net

DRAWN BY: <u>DT</u>

DSGN. BY: DT

APPR. BY: RT

Q.C. REVIEW

BY: MC

DATE: 6/20/22

810

YOMIN

DATE: 7/1/2022

SHERIDAN

# NOTE:

- 2. PROVIDE SEISMIC BRACING OF PIPING 2-1/2" AND LARGER OR AS REQUIRED BY LOCAL CODES.

- INSULATION.
- 7. PROVIDE FIBERGLASS ALL SERVICE JACKET (ASJ).
- 8. ASJ TO BE SEALED AT ALL SEAMS AND EDGES. 9. PROVIDE PVC COATED JACKET ON ALL EXPOSED PIPING.

HOT WATER SUPPLY

HOT WATER SUPPLY NATURAL GAS - A

OUTDOOR BELOW GROUND HO

# MECHANICAL PIPE SCHEDULE

1. INSULATION THICKNESS IS BASED ON A CONDUCTIVITY NOT EXCEEDING 0.27 BTU • INCH / (HR • FT² • °F)

3. ALL PIPE INSULATION MUST HAVE A FLAME SPREAD LESS THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL723. 4. EXPOSED PLASTIC PIPING IS NOT ALLOWED IN AIR PLENUMS. IF PLASTIC PIPE IS USED, IT MUST BE WRAPPED IN PLENUM RATED PIPE

HYDRONIC WATER PIPING SHALL BE ONE OF THE MATERIALS SPECIFIED AT THE CONTRACTORS OPTION. 6. ANY CONNECTIONS THAT ARE DISSIMILAR METALS SHALL REQUIRE A DIELECTRIC NIPPLE. DIELECTRIC UNIONS ARE NOT ALLOWED.

10. PROVIDE ALUMINUM JACKET WITH UV PROTECTIVE COATING ON ALL OUTDOOR PIPING INSTALLATIONS (POLYGUARD OR APPROVED EQUAL). 11. ALL EXTERIOR WATER PIPING AND PIPING IN UNCONDITIONED SPACES TO BE ENCASED IN 3" OF INSULATION.

WATER FIFING AND FIFING IN UNCONDITIONE	D SPACES TO DE E	INCASED IN 3 OF INSULATION.	
SYSTEM	ABBREV	PIPE MATERIAL	INSULATION
COMBUSTION AIR	CA	SCHEDULE 40 PVC	NONE
FLUE/VENT	V	SCHEDULE 40 PVC	1-1/2"
/ATER SUPPLY & RETURN < 1-1/2"ø	HWS / HWR	'L' COPPER / STEEL / AQUATHERM	1-1/2"
/ATER SUPPLY & RETURN ≥ 1-1/2"ø	HWS / HWR	'L' COPPER / STEEL / AQUATHERM	2"
ATURAL GAS - ABOVE GRADE	NG	THREADED BLACK IRON	NONE
W GROUND HOT WATER SUPPLY & RETURN	HWS / HWR	REHAU TWO-PIPE INSULPEX PEX-a	PRE-INSULATED
IRRIGATION - INTERIOR	IRR	'L' COPPER	NONE
IRRIGATION - EXTERIOR	IRR	HDPE	NONE

# CONSTRUCTION PLANS

**JULY 2022** PROJECT NUMBER

SHERIDAN COUNTY **BROOKS STREET GREENSPACE** 

WYOMING

SHEET NUMBER 34

DRAWING NUMBER

6017.002

MECHANICAL SPECIFICATIONS

**M-2** 

Market				INFL	COOR	UINA									
	IARK	DESCRIPTION	E	LECTRICAL DATA	CON	TROL	NOTES				1			FEED	
			LO	AD VOLT-PHA	SE TYPE	DIV		TYPE	DIV					COPPER WIRE (AWG)	C(II
													1		
											-	-	•	#12	+
											-	-		#12	
							-			-	-	-	-	#12	
	NTROL TYPE:		DISCON	INECT/STARTER TY	<u>'PE:</u>	1				DIVISIO		PONSIBILI	TIES:		
	CO CARBON ONT CONTINU EF INTERLOU HCP HOOD CO INT INTEGRA L LIGHT SW MS MANUAL OS OCCUPAI PS PRESSUF T THERMO TC TIME CLC UC UNIT CON VE VEHICLE N/A NOT APP	MONOXIDE DETECTOR OUS OPERATION CK WITH EXHAUST FAN NTROL PANEL L VITCH SWITCH NCY SENSOR RE SWITCH STAT OCK ITROLLER EXHAUST DETECTION SYS	CS FI FS MO MO MS NF RC RV VF N/	FD COMBINAT D FUSED DIS ST FUSTAT W FACTORY-N CP MOTOR OV SS MANUAL ST REQUIRED FD NON-FUSE PT 20A DUPLE SS REDUCED FD VARIABLE I	ION STARTER/DIS CONNECT WIRED SINGLE PO 'ER-CURRENT PR TARTER SWITCH ) D DISCONNECT X RECEPTACLE ( VOLTAGE SOLID- FREQUENCY DRI'	SCONNECT - OINT CONNE ROTECTION WITH THERM (GFCI PROTE -STATE IVE - HOA	HOA CTION /AL OVERLOAI CTED AS REQ	DS (1-, 2- OR 3-F		22/26 23/23 23/26	FURNISH FURNISH FURNISH	HED AND   HED AND   HED AND	INSTALLED BY DI INSTALLED BY DI INSTALLED BY DI	V. 22, WIRED BY D V. 23, WIRED BY D V. 23, WIRED BY D	IV. 2 IV. 2 IV. 2
MARK       NOCEL       SERVER       SYSTEM STATE       OUTTAINER VOLUE COLU       HASE       MAIL       MAIL <td>1.INTEGRA2.INTEGRA3.SINGLE F4.PROVIDE5.MOUNT C6.SIZE FUS7.EQUIPME</td> <td>L OVERLOADS OINT CONNECTION RECEPTACLE AND DATA IN UNI-STRUT IN FRONT O ES IN ACCORDANCE WITH NT</td> <td>CONNECTION FOR PAN OF UNIT H MANUFACTURER'S GI</td> <td></td> <td>TALLED</td> <td>А. В.</td> <td>CONTROL WIF EXPOSED CO UNLESS SPEC RESPONSIBIL NEUTRAL IS F ALL DUCT SM</td> <td>NTROL WIRING CIFICALLY NOTE ITY TO VERIFY REQUIRED PRIO OKE DETECTOF</td> <td>IS UNACCI ED, ALL FEE WITH THE R TO ROUC RS FURNIS</td> <td>EPTABLE. EDERS SH MANUFAC GH-IN. HED BY D</td> <td>IALL INCL CTURER O IV. 26, INS</td> <td>UDE A FU F THE AC</td> <td>LL SIZE NEUTRA TUAL EQUIPMEN 3Y DIV. 23, AND W</td> <td>L. IT IS THE CONTR T BEING SUPPLIED VIRED BY DIV. 26. D</td> <td>RACT D WE</td>	1.INTEGRA2.INTEGRA3.SINGLE F4.PROVIDE5.MOUNT C6.SIZE FUS7.EQUIPME	L OVERLOADS OINT CONNECTION RECEPTACLE AND DATA IN UNI-STRUT IN FRONT O ES IN ACCORDANCE WITH NT	CONNECTION FOR PAN OF UNIT H MANUFACTURER'S GI		TALLED	А. В.	CONTROL WIF EXPOSED CO UNLESS SPEC RESPONSIBIL NEUTRAL IS F ALL DUCT SM	NTROL WIRING CIFICALLY NOTE ITY TO VERIFY REQUIRED PRIO OKE DETECTOF	IS UNACCI ED, ALL FEE WITH THE R TO ROUC RS FURNIS	EPTABLE. EDERS SH MANUFAC GH-IN. HED BY D	IALL INCL CTURER O IV. 26, INS	UDE A FU F THE AC	LL SIZE NEUTRA TUAL EQUIPMEN 3Y DIV. 23, AND W	L. IT IS THE CONTR T BEING SUPPLIED VIRED BY DIV. 26. D	RACT D WE
MARK       MIRS       MODEL       SERVED       WHENDERING       OUTTAILER VOLLINE (GAL)       VOLTAGE       PHARE       WATTER       R         AGH       AND       9-100-HINL       HEATING MATTER       3       100       SEE MEP COORDINATION SCHEDULE       96         MIRS       MURDEL       ANDIA       HEATING MATTER       3       100       SEE MEP COORDINATION SCHEDULE       96         MIRS       MURDEL       ANDIA       HEATING MATTER       3       100       SEE MEP COORDINATION SCHEDULE       96         MIRS       MIRS       MIRS       MURDEL       ANDIA       MURDEL       PRESSURE GAUGE (MURDE ANDIA MADE ANDIA			AL	<b>JTOMA</b>	<b>FIC GL</b>	YCO		DER S	SCH	EDL	JLE				
				OVOTEN OT	TIC			ELEC	CTRICAL D	ATA					
	MARK MF	GR MODEL	SERVES			NER VOLUME	· · ·	DLTAGE	PHASE		WATTS			REMARKS	
Name     Notifie     Notifie     Notifie     Notifie     Notifie       ROWING LINT COMPLETE WITH TANK COVER, STRAMER ON LETTO PLMP. ADJUSTABLE PRESSURE REGULATING VALVE (SAS PRIG), PRESSURE CAUGE, CHECK VALVE AND ANION MODEL RIA-03-SSR       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     MELTOUTLET PRE SEE       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     MELTOUTLET PRE SEE       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     MELTOUTLET PRE SEE       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     MELTOUTLET PRE SEE       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     MELTOUTLET PRE SEE       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     MELTOUTLET PRE SEE       MARK     MFOR     MODEL     SERVICE     ILLOW RATE (SPM)     STERNED COMPLETE       MARK     MARK     MARK     MODEL     SERVICE     STERNED COMPLETE     STERNED COMPLETE       MARK     MARK     MARK     MARK     MELTOUTLET PRE SEE     STERNED COMPLETE     STERNED COMPLETE       MARK     MARK     MARK     MERKENDE     STERNED COMPLETE     STERNED COMPLETE     STERNED COMPLETE       MARK     MARK     MARK     MARKEND     STERNED COMPLETE			HEATING WATER			400								SEE NOTES	
AND RELEATED NUMBER OF AND		MPLETE WITH TANK COVE	ER. STRAINER ON LET T	O PUMP. ADJUSTA	BLE PRESSURE F	REGULATING	VALVE (5-55 P	SIG). PRESSUR	E GAUGE.	CHECK V	ALVE AND	) AXION M	IODEL RIA10-1-SS	SA LOW LEVEL ALA	RM F
NOTES: PROVIDE COMPLETE WITH FACTORY INSTALLED 2* BLOWDOWN VALVE. HOFFMAN MODEL 78 AUTOMATIC AR VENT WITH OUTLET PIPED TO GLYCOL FEEDER. AND GROOVED CONNECTIONS, AU NUMBER DATION VALVE HOUSENEERING TO VALVE HOUSENEERING HOUSENEERING TO VALVE HOUSENEERING TO VALVE HOUSE	MARK	MFG	GR							ESSURE D		INLET/		ZE REM	/ARKS
ANDIALED IN ACCORDANCE WITH SPECIFICATION SECTION 220716.	AS-1	TAC	o	4903AD-125	SNOW	MELT		67.7		1.0			3"	SEE	NOTE
ASSEMOUNTED PUMP DETAIL     A REVISIONS      A REVIS	IRON F MASON SE MOUNTED PI PUMP SCHED PUMP SCHED DITIONAL INFOF 4" TALL CONCR OUSEKEEPING I	(TY UAL FLOW CONTROL VAL BODY SILENT CHECK VAL LEXIBLE CONNECTOR (TY MODEL # SFDEJ OR EQU TRANSITION JMP SEE ULE FOR RMATION			PRESSUF MOUNT C WALL OR GAUGE (TYP OF UCTION DIFFUSE IPE SUPPORT LE ROVIDE BALL DR (ITH HOSE THRE) RAIN TAPPING IN	ON ADJACEN PIPING E COCK F 3) ER WITH EG RAIN VALVE AD CAP ON N BOTTOM	Т						TRENCH E		BACK
	N.T.S.		MP DETAIL	REVISIONS		 DA	(2) N.:	1. SEE MA NOWME T.S.							
IEASURES ONE INCH INAL DRAWING.	URES ONE INCH DRAWING.													neers - surveyors 70 Sugarland Drive, Suite	• pla

.E							
	DIS	SCONNEC	FEEDER				
SIZE (NEMA)	SWITCH (AMPS)	FUSE (AMPS)	ENCLOSURE (NEMA)	COPPER WIRE (AWG)	CONDUIT (INCHES)		
-	-	-	1	#12	3/4"		
-	-	-	1	#12	3/4"		
-	-	-	1	#12	3/4"		
-	-	-	-	#12	3/4"		

				HOT	WA	<b>FER</b>	BOILE
MARK	MFGR.	MODEL	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	FUEL TYPE	FLOW RATE (GPM)	PRESSURE DROP (FT)
B-1	LOCHINVAR	FBN-1001	999,000	961,000	NG	67.7	8.3

NOTES: PROVIDE BOILER COMPLETE WITH ASME H STAMP, UL LISTING, 75 PSI T&P RELIEF VALVE, MANUAL HIGH LIMIT RESET, LOW WATER CUTOFF, GRUNDFOS MAGNA 3 BOILER PUMP (#100208412), ALL CONTROLS AND ACCESSORIES REQUIRED FOR CSD-1 CERTIFICATION.

DIVISION	NOF RESPONSIBILITIES:
22/22	FURNISHED AND INSTALLED BY DIV 22 WIRED B

	HYDRONIC PUMP SCHEDULE - 50% PG											
MARK	MFGR	MODEL	MOTOR RPM		FLOW RATE	HEAD (FT)		SERVES	ELECTF	RICAL DA	TΑ	REMARKS
WARK	MFGR	MODEL	MOTOR RPM	IMPELLER DIA. (IN)	(GPM)	HEAD (FT)	FLUID	SERVES	VOLTAGE P	PHASE	HP	
P-1	TACO	SFI1507D	1760	5.6"	67.7	32.0	50% PROPYLENE GLYCOL	SNOWMELT	SEE MEP COORDINATION SCHEDULE		SEE NOTE 2	
BP-1			INCL	LUDED WITH BOILER			50% PROPYLENE GLYCOL	SNOWMELT	SEE MEP COORDINATION SCHEDULE			SEE NOTE 1

NOTES

1.) PROVIDE VARIABLE SPEED PUMP POWERED AND CONTROLLED BY BOILER. BOILER'S INTERNAL CONTROLLS SHALL SEND A 0-10V DC SIGNAL TO CONTROL PUMP SPEED TO MAINTAIN A CONSTANT TEMPERATURE GRADIANT THROUGH THE BOILER, PUMP SHALL BE VERIFIED BY BOILER MANUFACTURER. 2.) PROVIDE WITH INTEGRAL VFD AND DISCONNECT, CONTROLS, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

E MANU UGH-IN SHED I	IS SHALL INCLUD JFACTURER OF T I. BY DIV. 26, INSTA	E A FULL SIZE NEUTRAL. IT IS THE CONTRACTOR'S HE ACTUAL EQUIPMENT BEING SUPPLIED WETHER A LLED BY DIV. 23, AND WIRED BY DIV. 26. DIV. 26 SHALL Y ANY DUCT SMOKE DETECTOR.					, C
IEC	DULE		MARK	AREA SERVED	ZONE AREA (SQFT)	HEATING OUPUT (BTU/HR)	Т
DATA			SMZ-1	ZONE 1	871	117,679	
Ξ	WATTS	REMARKS	SMZ-2	ZONE 2	1,335	221,175	
ON SC	HEDULE	SEE NOTES	SMZ-3	ZONE 3	1,467	243,044	

CHECK VALVE AND AXION MODEL RIA10-1-SSA LOW LEVEL ALARM PANEL WITH

ESSURE DROP (FT H20)	INLET/OUTLET PIPE SIZE (NPS)	REMARKS
1.0	3"	SEE NOTES

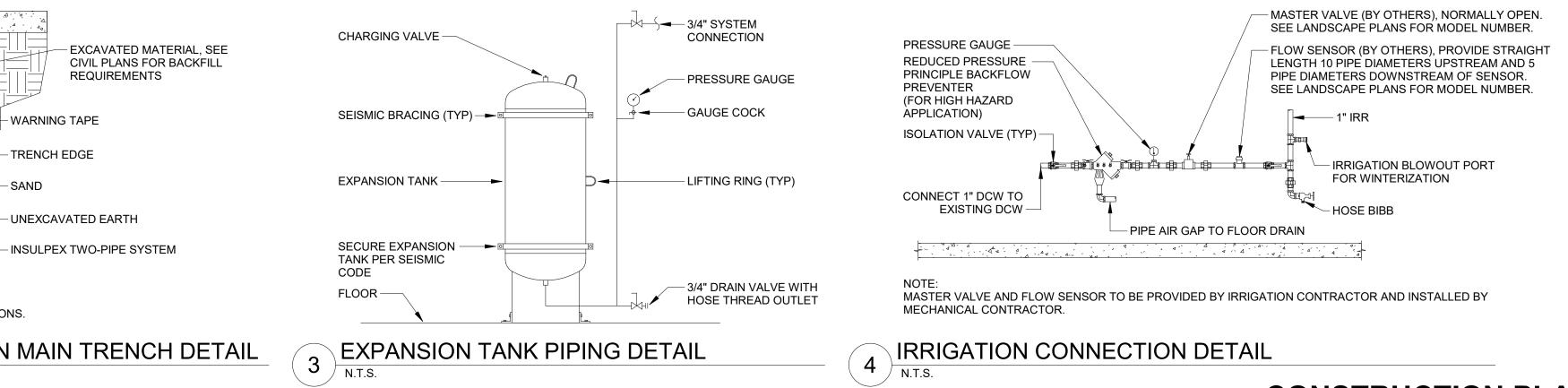
	HYDRONIC SNOW MELT SCHEDULE																	
MARK	AREA	ZONE AREA	HEATING OUPUT		NUMBER OF	CIRCUIT	FLOW RATE	WATER PRESSURE	SUPPLY	Y RETURN	RETURN	RETURN			RADIAN	T TUBING	- WORKING FLUID	REMARKS
	SERVED	(SQFT)	(BTU/HR)	(IN)	CIRCUITS	LENGTH (FT)	(GPM)	DROP (FT)	TEMP (°F)		SIZE (IN)	MATERIAL	WORKING FLOID					
SMZ-1	ZONE 1	871	117,679	9	5	280	9.2	5.2	101	76	3/4	REHAU RAUPEX	50% PROPYLENE GLYCOL	SEE NOTES				
SMZ-2	ZONE 2	1,335	221,175	9	7	295	13.8	5.5	101	76	3/4	REHAU RAUPEX	50% PROPYLENE GLYCOL	SEE NOTES				
SMZ-3	ZONE 3	1,467	243,044	9	7	300	15.1	12.8	101	76	3/4	REHAU RAUPEX	50% PROPYLENE GLYCOL	SEE NOTES				
SMZ-4	ZONE 4	1,571	221,766	9	8	300	20.2	16.7	101	76	3/4	REHAU RAUPEX	50% PROPYLENE GLYCOL	SEE NOTES				
SMZ-5	ZONE 5	453	75,050	9	3	230	5.0	3.6	101	76	3/4	REHAU RAUPEX	50% PROPYLENE GLYCOL	SEE NOTES				
SMZ-6	ZONE 6	401	66,376	9	2	300	4.4	13.5	101	76	3/4	REHAU RAUPEX	50% PROPYLENE GLYCOL	SEE NOTES				

NOTES: PROVIDE STAINLESS STEEL SUPPLY AND RETURN MANIFOLDS SIZED FOR MAX FLOW RATE, MANIFOLDS SHALL INCLUDE ISOLATION VALVES, TEMP GAUGES IN THE SUPPLY AND RETURN, FLOW BALANCING DEVICES AND ISOLATION VALVES FOR EACH CIRCUIT, SHUTOFF/ISOLATION DEVICE FOR EACH CIRCUIT, MANIFOLD MOUNTING BRACKETS.

# THERMAL EXPANSION TANK SCHEDULE

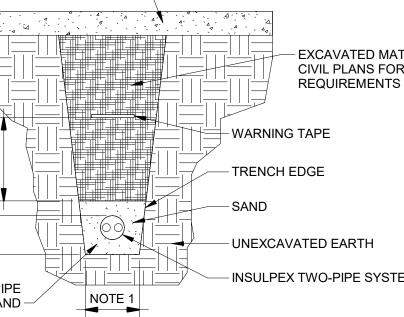
ET-1 TACO CBX84-125 SNOWMELT 30 125 22 12 125	35 500 SEE NOTES	

NOTES: THE LISTED SYSTEM PRESSURE AND VOLUME ARE AN ESTIMATE. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FIELD VARIFY THE REQUIRED SYSTEM PRESSURE TO ENSURE PROPER SYSTEM OPERATION AND CHARGE THE TANK AS REQUIRED.





	tessional Engine	DRAWN BY: <u>DT</u>		
	240 T. THOM SO	DSGN. BY: <u>DT</u>		SHERIDAN COUNTY BROOKS STREET GREENSPACE
	An Elan	APPR. BY: <u>RT</u>	SHERIDAN	BROOKS STREET GREENSFACE
V		DATE: <u>7/1/2022</u>		
5 /	Date	Q.C. REVIEW	М	MECHANICAL SCHEDULES & DETAILS
2 2	HYOMING	BY: <u>MC</u> DATE: <u>6/20/22</u>		



# **UPPLY & RETURN MAIN TRENCH DETAIL**

	R SCHEDULE - 50% PG							
	MAX SYSTEM TEMP (F)	MIN GAS PRESSURE (inWC)	MAX GAS PRESSURE (inWC)	ELECTRICAL DATA		REMARKS		
				VOLTAGE	PHASE	MCA		
	101	4"	14"	SEE MEP COORDINATION SCHEDULE			SEE NOTES	

**CONSTRUCTION PLANS** 

# SHERIDAN COUNTY BROOKS STREET GREENSPACE

WYOMING

6017.002

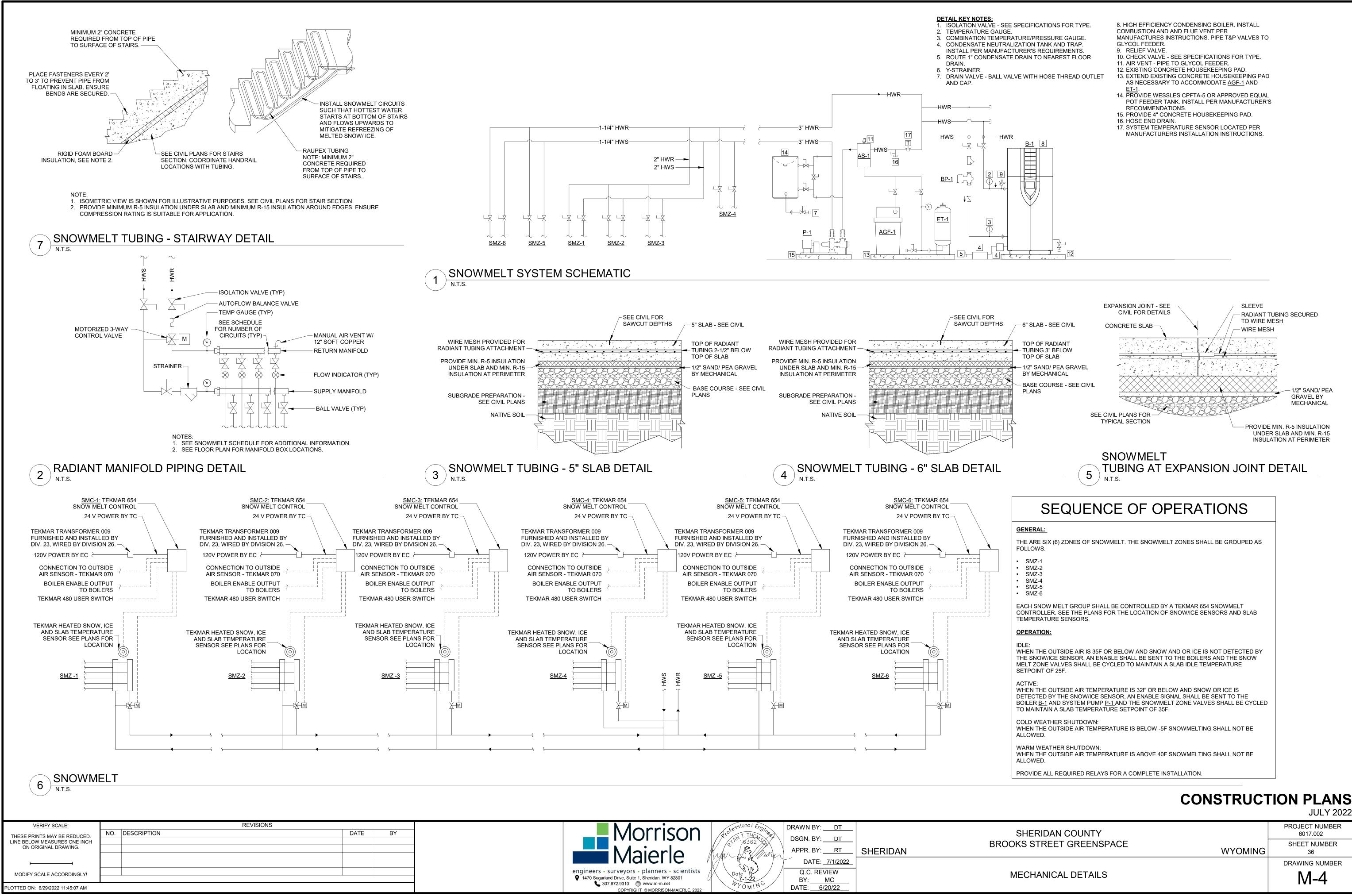
PROJECT NUMBER

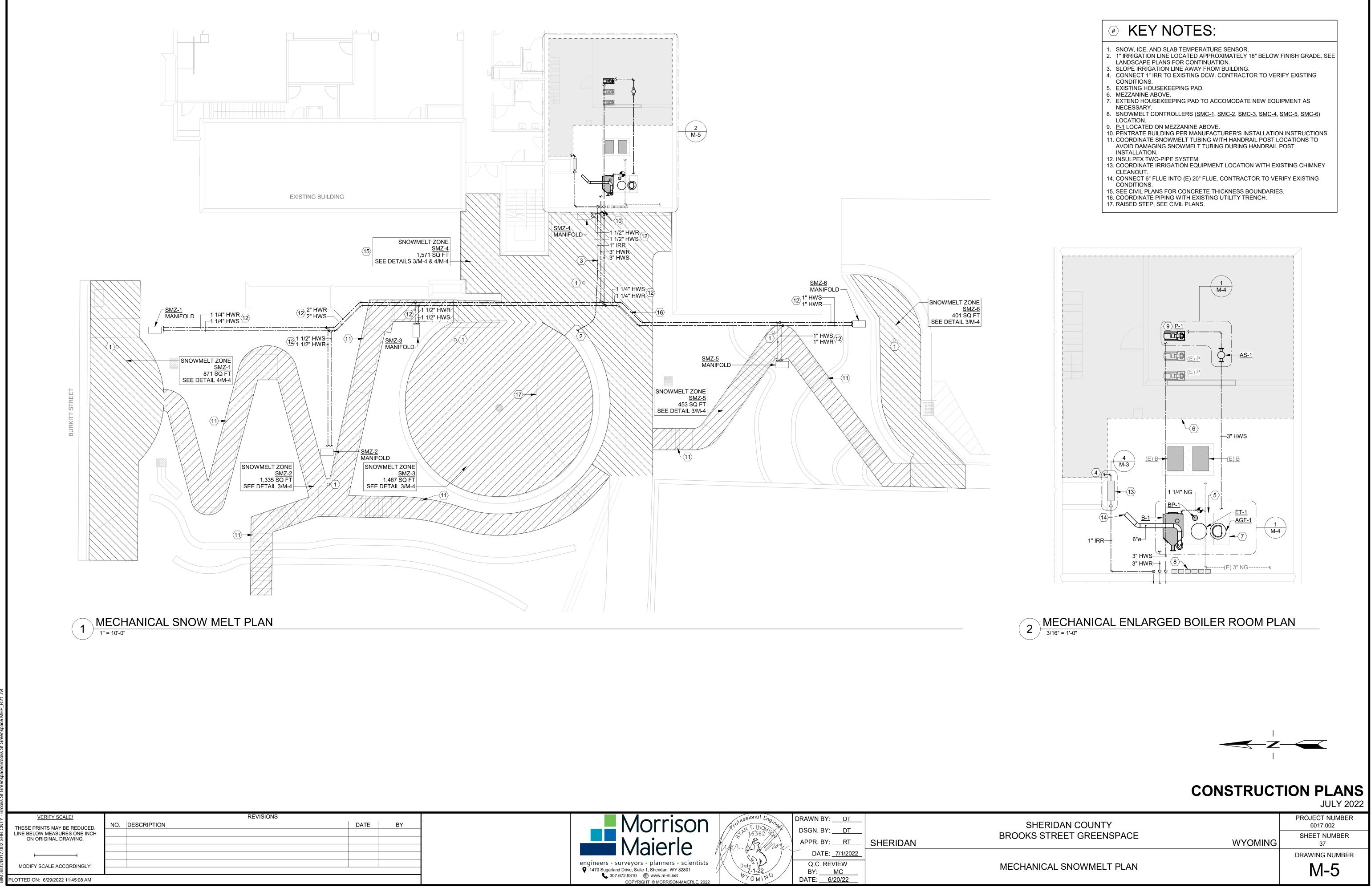
JULY 2022

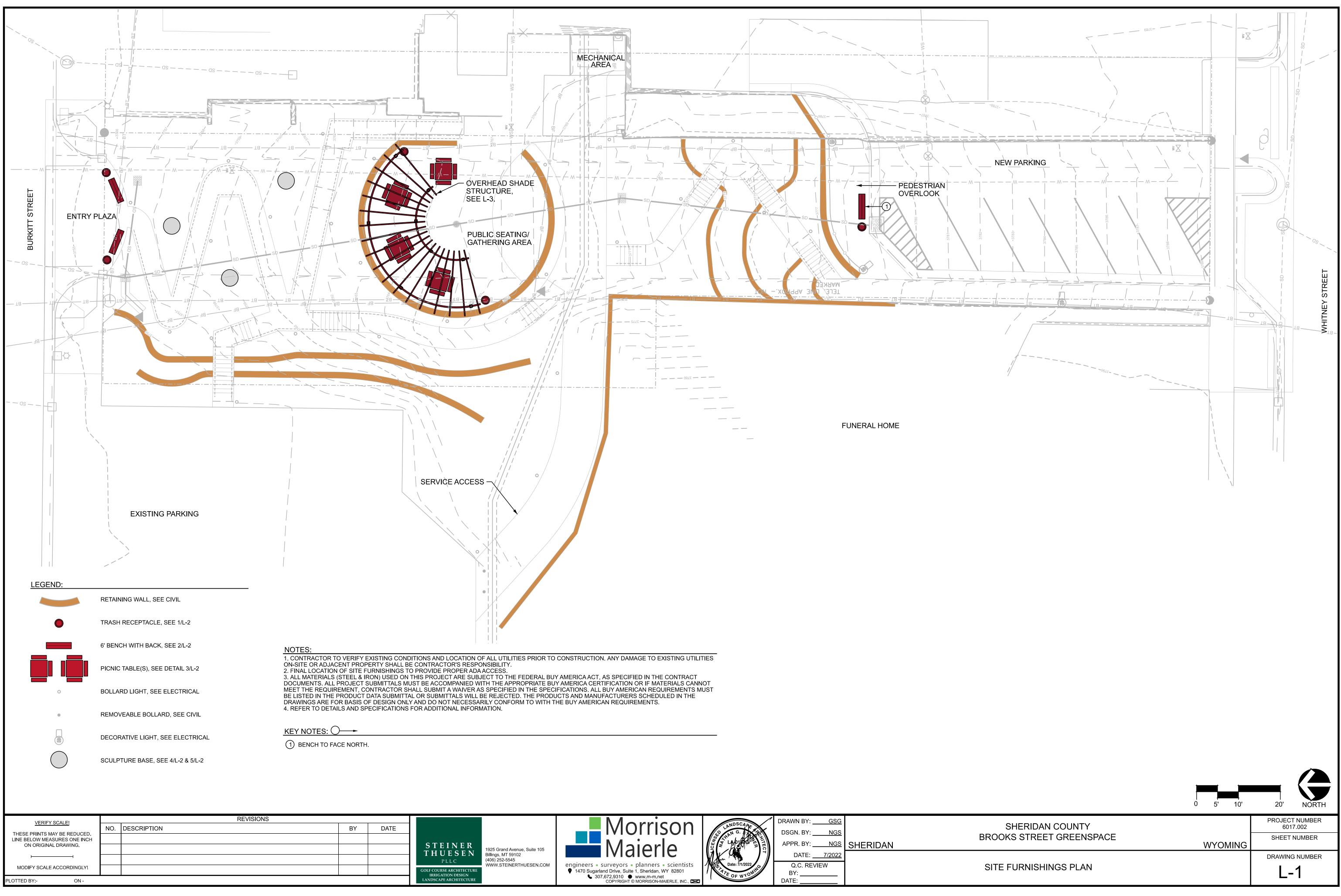
SHEET NUMBER

35 DRAWING NUMBER

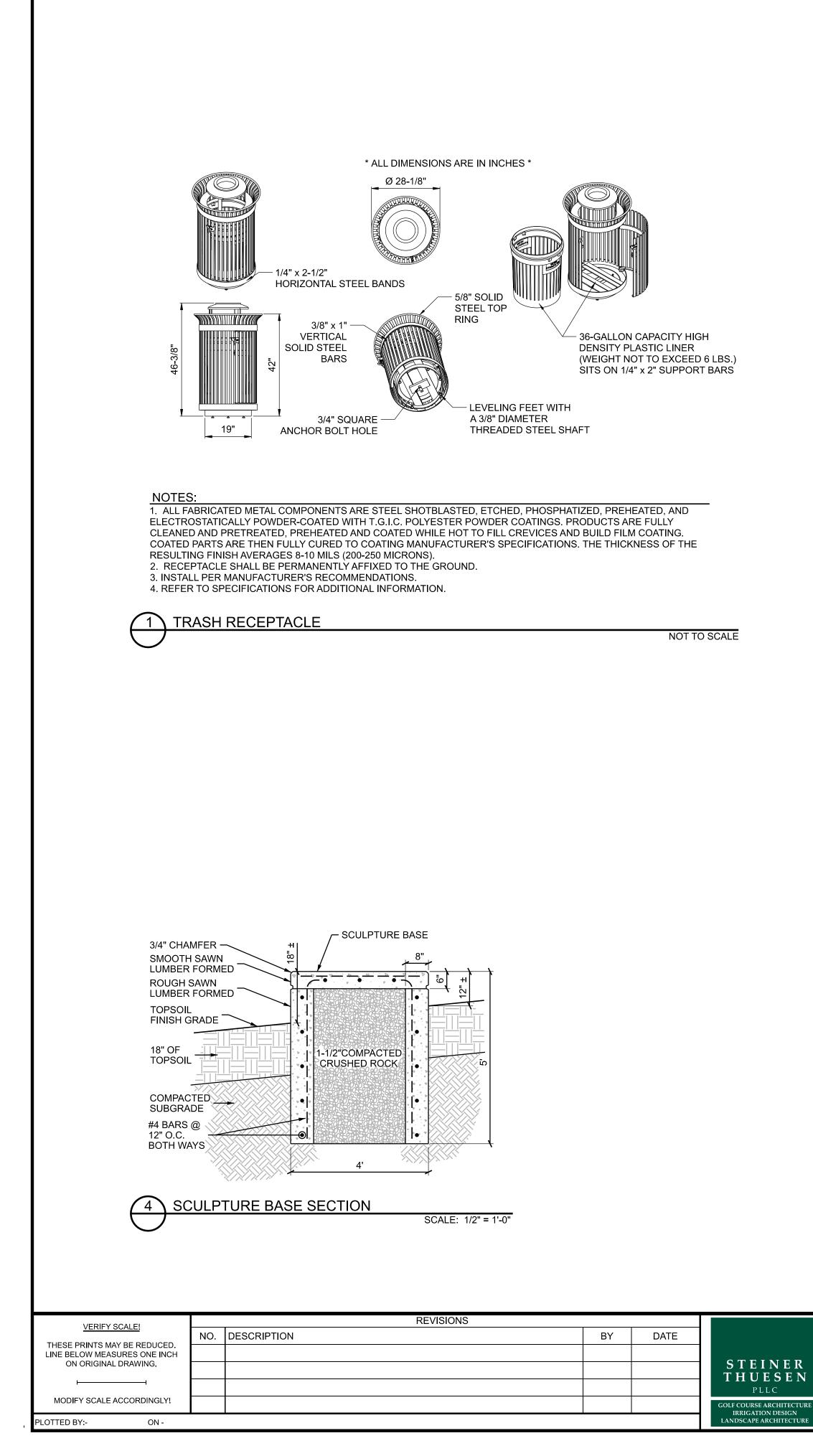
M-3

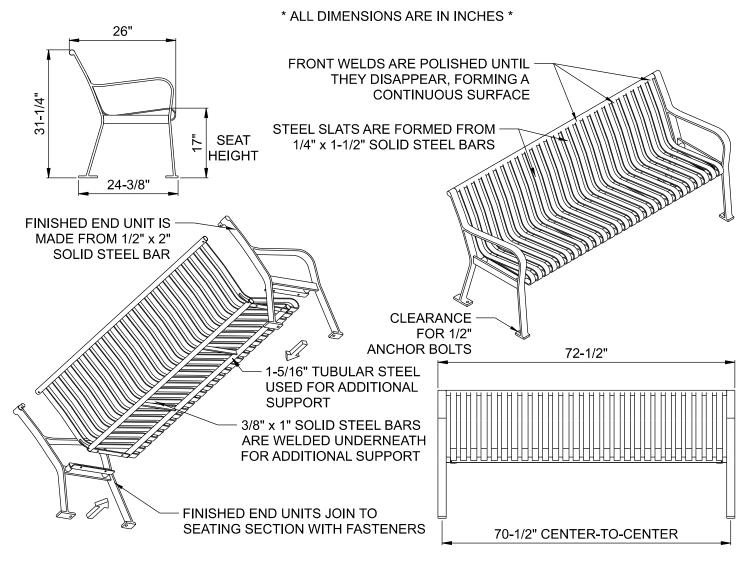






PLOTTED BY:-	
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# NOTES:

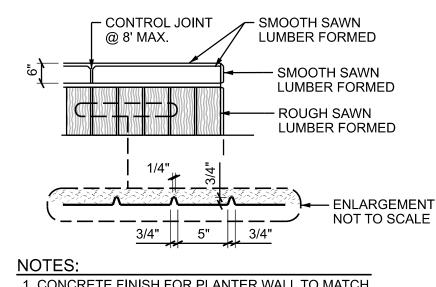
1. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).

2. LOCATE ANCHOR BOLTS AFTER BENCH IS IN PLACE. BENCH SHALL BE PERMANENTLY AFFIXED TO THE GROUND. 3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

# 2 BENCH WITH BACK

NOT TO SCALE



1. CONCRETE FINISH FOR PLANTER WALL TO MATCH FINISH ON EXISTING PLANTERS ON GRINNELL PLAZA AT CITY HALL. PROVIDE MOCK-UP.



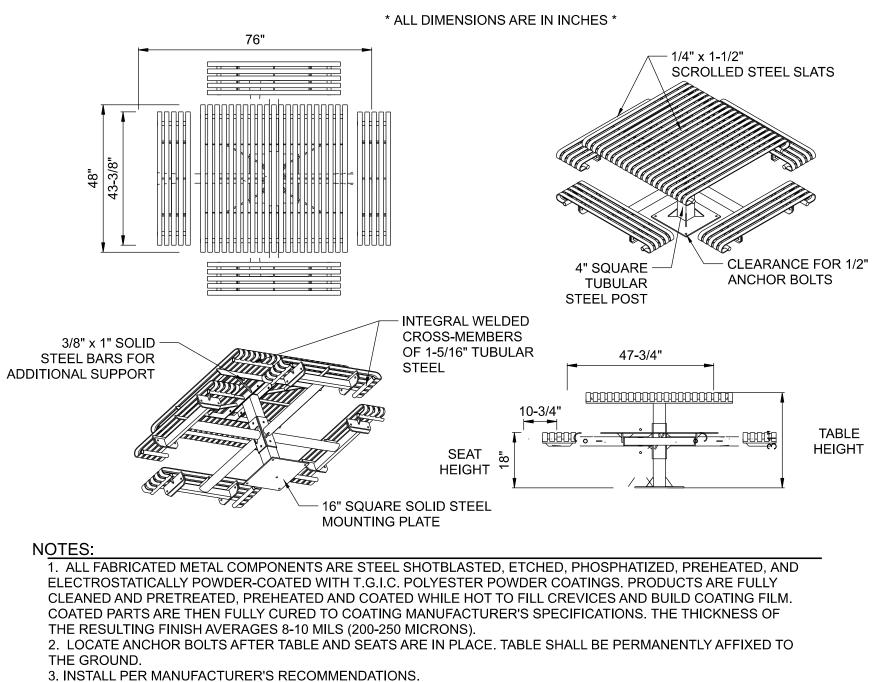






DRAWN BY: GSG DSGN BY: NGS APPR. BY: <u>NGS</u> SHERIDAN DATE: <u>7/202</u> Q.C. REVIEW BY:

DATE:



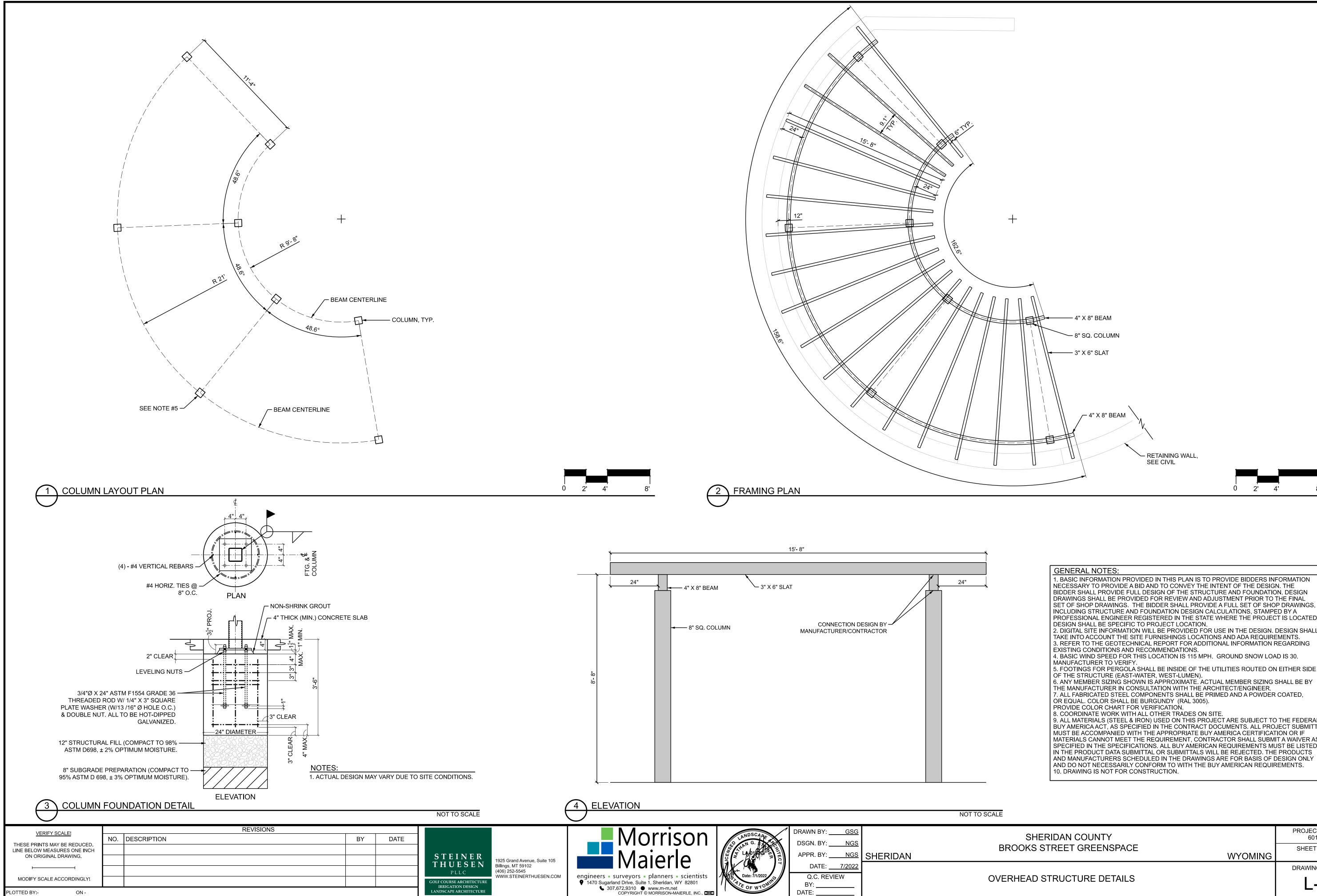
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

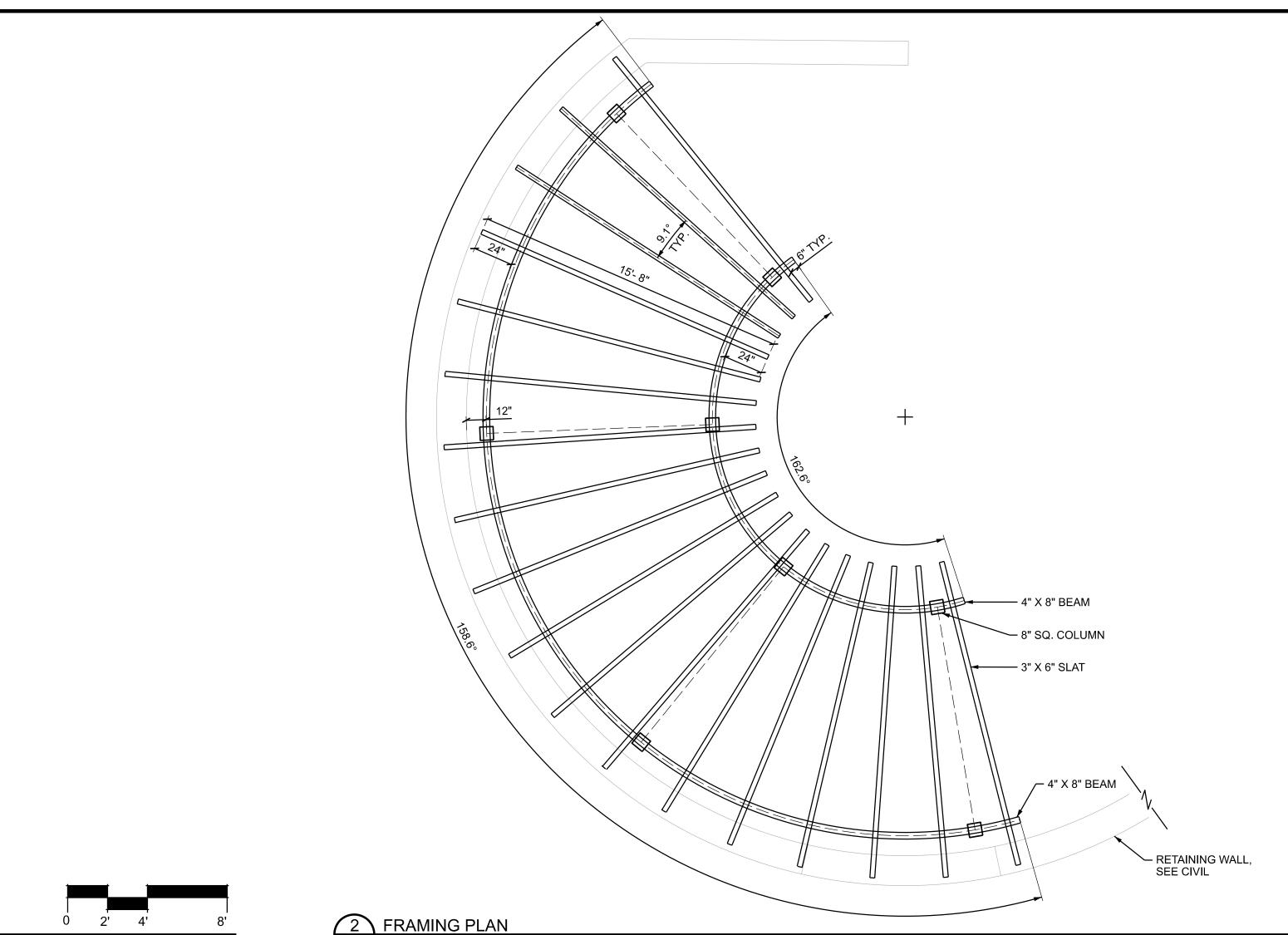
NOTES:

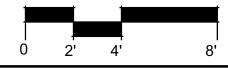
3 TABLE

NOT TO SCALE

	PROJECT NUMBER 6017.002
YOMING	SHEET NUMBER
	DRAWING NUMBER
	L-2
,	YOMING

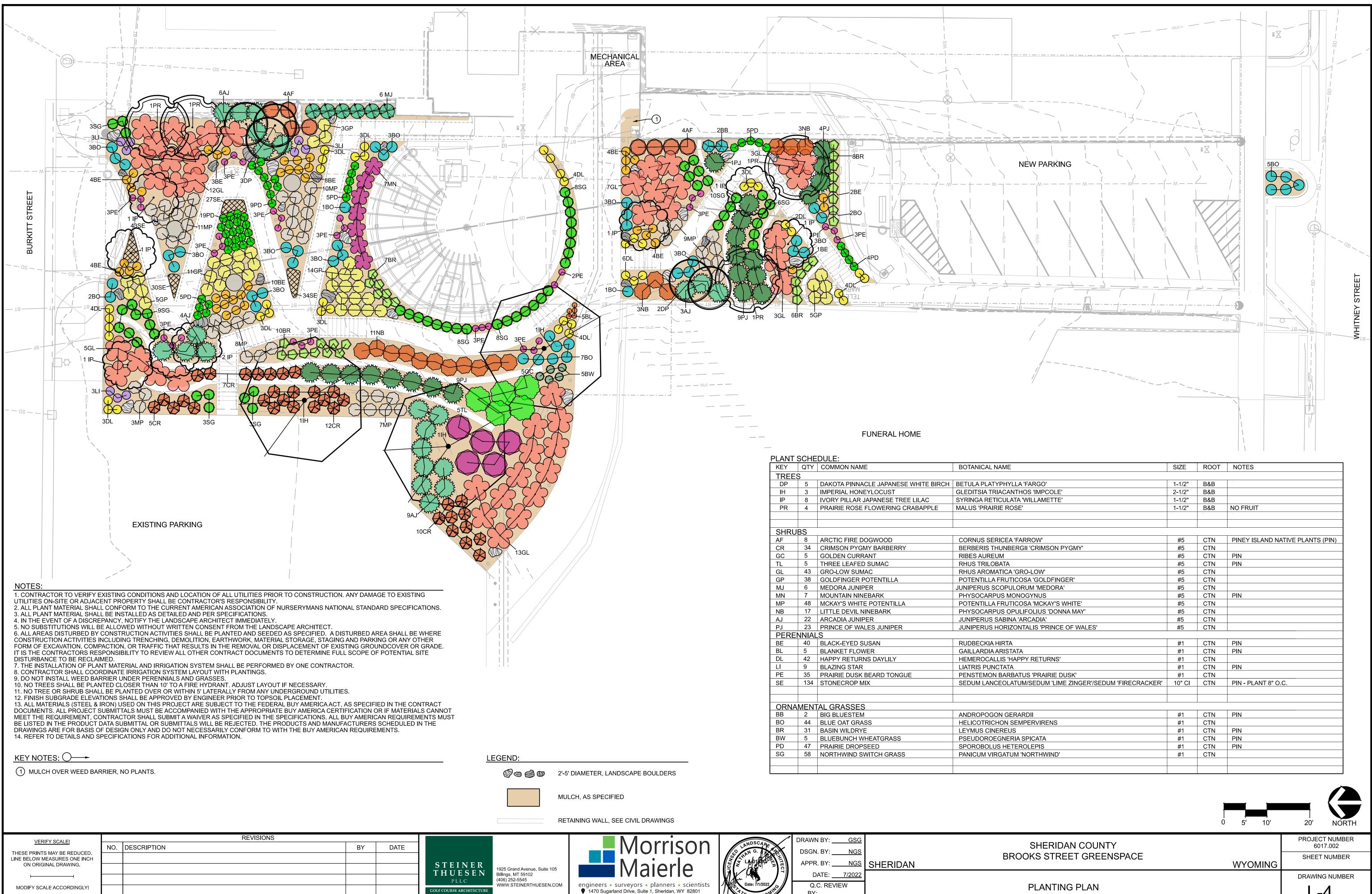






PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. 2. DIGITAL SITE INFORMATION WILL BE PROVIDED FOR USE IN THE DESIGN. DESIGN SHALL TAKE INTO ACCOUNT THE SITE FURNISHINGS LOCATIONS AND ADA REQUIREMENTS. 3. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION REGARDING 4. BASIC WIND SPEED FOR THIS LOCATION IS 115 MPH. GROUND SNOW LOAD IS 30. 5. FOOTINGS FOR PERGOLA SHALL BE INSIDE OF THE UTILITIES ROUTED ON EITHER SIDE 6. ANY MEMBER SIZING SHOWN IS APPROXIMATE. ACTUAL MEMBER SIZING SHALL BE BY THE MANUFACTURER IN CONSULTATION WITH THE ARCHITECT/ENGINEER. 7. ALL FABRICATED STEEL COMPONENTS SHALL BE PRIMED AND A POWDER COATED, COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
 ALL MATERIALS (STEEL & IRON) USED ON THIS PROJECT ARE SUBJECT TO THE FEDERAL BUY AMERICA ACT, AS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL PROJECT SUBMITTALS MUST BE ACCOMPANIED WITH THE APPROPRIATE BUY AMERICA CERTIFICATION OR IF MATERIALS CANNOT MEET THE REQUIREMENT, CONTRACTOR SHALL SUBMIT A WAIVER AS SPECIFIED IN THE SPECIFICATIONS. ALL BUY AMERICAN REQUIREMENTS MUST BE LISTED IN THE PRODUCT DATA SUBMITTAL OR SUBMITTALS WILL BE REJECTED. THE PRODUCTS AND MANUFACTURERS SCHEDULED IN THE DRAWINGS ARE FOR BASIS OF DESIGN ONLY AND DO NOT NECESSARILY CONFORM TO WITH THE BUY AMERICAN REQUIREMENTS.

SHERIDAN COUNTY	PROJECT NUMBER 6017.002
BROOKS STREET GREENSPACE WYOMING	SHEET NUMBER
	DRAWING NUMBER
ERHEAD STRUCTURE DETAILS	L-3



Softania (1997) Softania (199

BY:

DATE:

PLOTTED BY:- O
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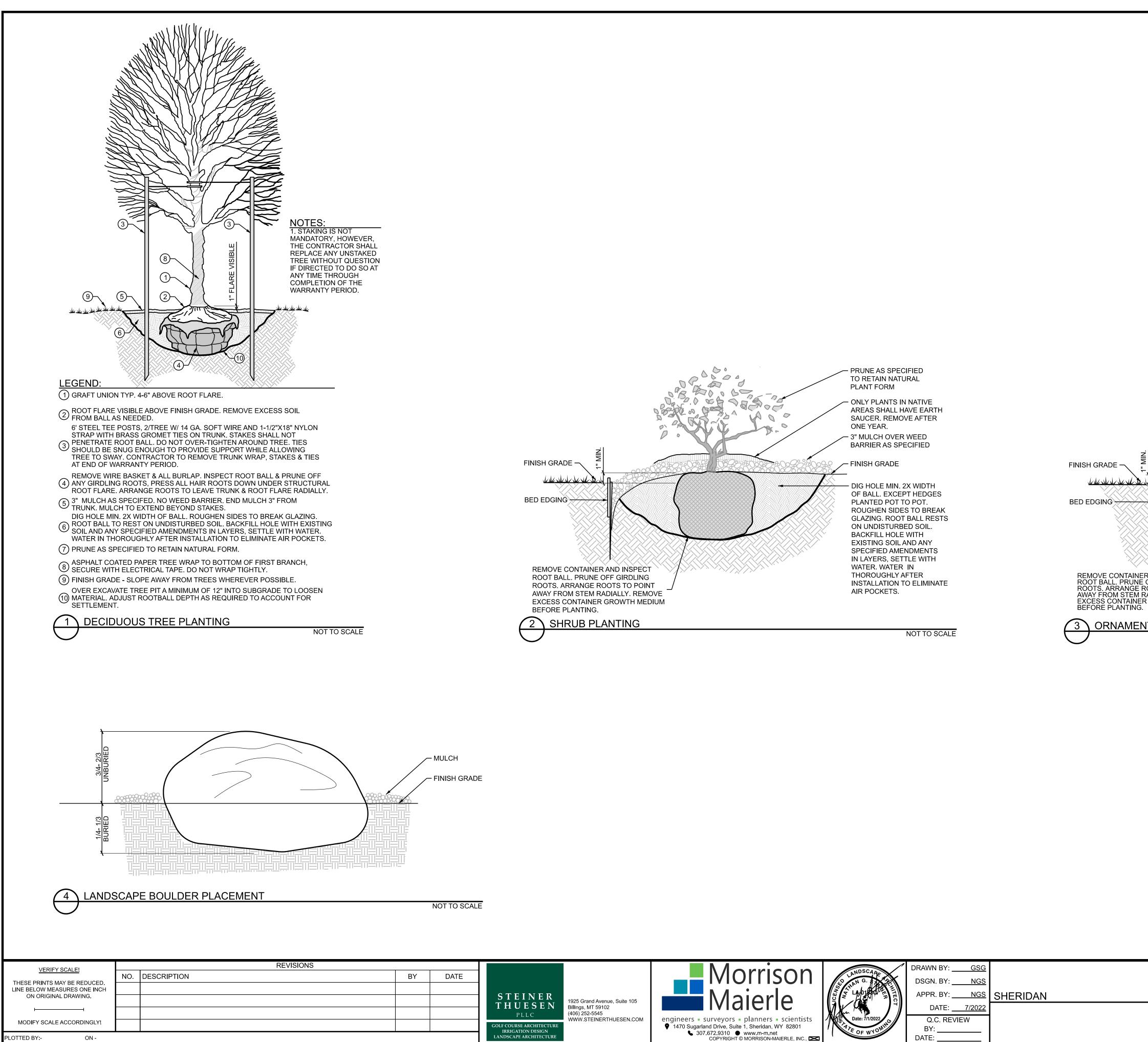
OLF COURSE ARCHITECTUR IRRIGATION DESIGN

LANDSCAPE ARCHITECTUR

ME	SIZE	ROOT	NOTES
HYLLA 'FARGO'	1-1/2"	B&B	
CANTHOS 'IMPCOLE'	2-1/2"	B&B	
ULATA 'WILLAMETTE'	1-1/2"	B&B	
ROSE'	1-1/2"	B&B	NO FRUIT
			· ·
CEA 'FARROW'	#5	CTN	PINEY ISLAND NATIVE PLANTS (PIN)
NBERGII 'CRIMSON PYGMY'	#5	CTN	
	#5	CTN	PIN
TA	#5	CTN	PIN
ICA 'GRO-LOW'	#5	CTN	
RUTICOSA 'GOLDFINGER'	#5	CTN	
PULORUM 'MEDORA'	#5	CTN	
MONOGYNUS	#5	CTN	PIN
RUTICOSA 'MCKAY'S WHITE'	#5	CTN	
S OPULIFOLIUS 'DONNA MAY'	#5	CTN	
BINA 'ARCADIA'	#5	CTN	
RIZONTALIS 'PRINCE OF WALES'	#5	CTN	
RTA	#1	CTN	PIN
ISTATA	#1	CTN	PIN
S 'HAPPY RETURNS'	#1	CTN	
ATA	#1	CTN	PIN
ARBATUS 'PRAIRIE DUSK'	#1	CTN	
OLATUM/SEDUM 'LIME ZINGER'/SEDUM 'FIRECRACKER'	10" CI	CTN	PIN - PLANT 8" O.C.
GERARDII	#1	CTN	PIN
N SEMPERVIRENS	#1	CTN	
EUS	#1	CTN	PIN
NERIA SPICATA	#1	CTN	PIN
HETEROLEPIS	#1	CTN	PIN
ATUM 'NORTHWIND'	#1	CTN	

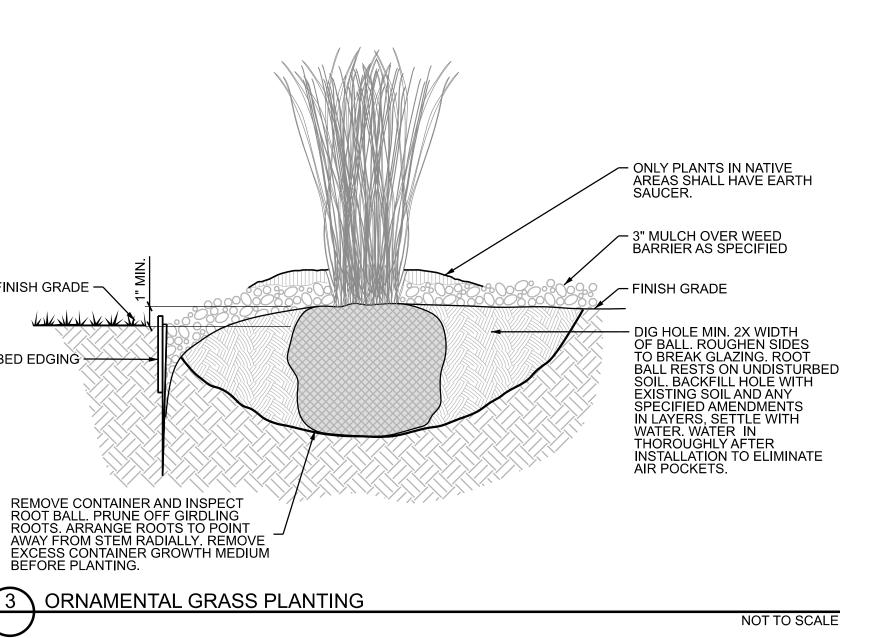
PLANTING PLAN

_-4

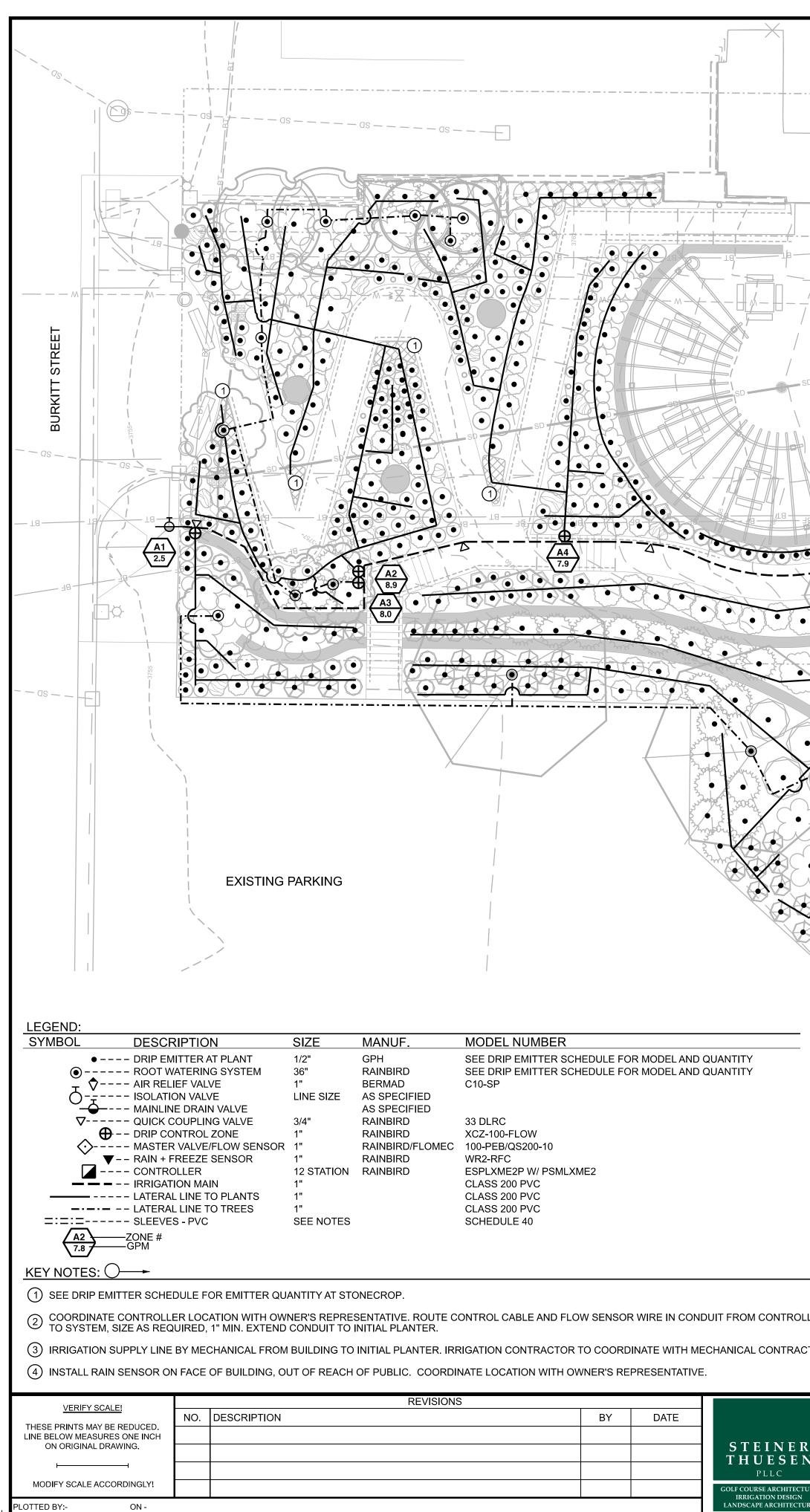


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S	NGS	APPR. BY:
	7/2022	DATE:
	/IEW	Q.C. RE
		BY

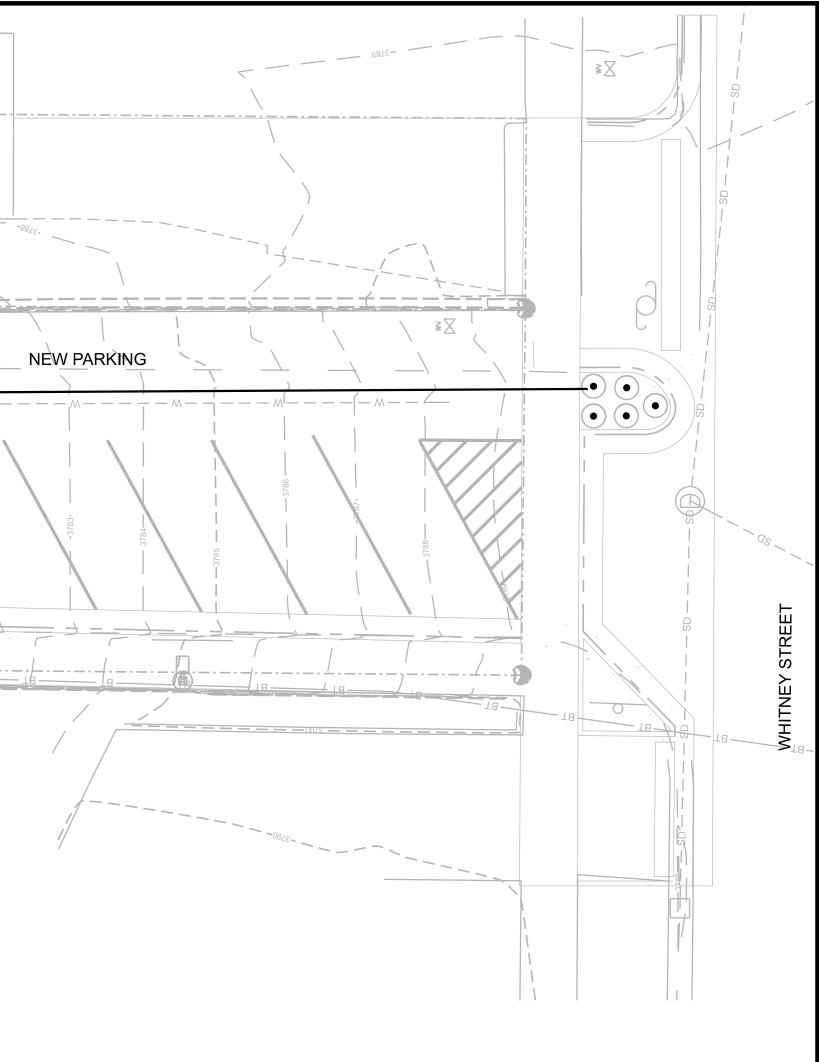
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SHERIDAN COUNTY		PROJECT NUMBER 6017.002
BROOKS STREET GREENSPACE	WYOMING	SHEET NUMBER
		DRAWING NUMBER
PLANTING DETAILS		L-5



	4 MECHANICA AREA	AL			
M					
SD					
	$ \begin{array}{c}                                     $				
		0826			//////////////////////////////////////
•			FUNE	ERAL HOME	
					EMITTER SCHEDULE:
• (• P					PLANT DAKOTA PINNACLE JAPANESE WHITE BIRCH IMPERIAL HONEYLOCUST
					IVORY PILLAR JAPANESE TREE LILAC MEDORA JUNIPER PRAIRIE ROSE FLOWERING CRABAPPLE
					ARCTIC FIRE DOGWOOD CRIMSON PYGMY BARBERRY
	TES:				GOLDEN CURRANT THREE LEAFED SUMAC GRO-LOW SUMAC
— PRC 2. IF	DPERTY SHALL BE CONTRACTOR'S RES RRIGATION PLAN IS DIAGRAMMATIC IN N	I OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DA SPONSIBILITY. NATURE. FIELD ADJUSTMENT OF IRRIGATION COMPO CHANGES IN PIPE LAYOUT MAY BE MADE BY THE CO	ONENTS MAY BE NECESSARY TO	O AVOID CONFLICTS WITH	GOLDFINGER POTENTILLA MOUNTAIN NINEBARK
LAN 3. S	DSCAPE ARCHITECT. CHEDULE 40 PVC SLEEVES ARE REQUI	IRED UNDER ALL HARD AND GRAVEL SURFACES, EXIS	STING AND PROPOSED. SLEEVE	ES ARE ALSO REQUIRED AT	MCKAY'S WHITE POTENTILLA LITTLE DEVIL NINEBARK ARCADIA JUNIPER
SYS BOT	TEM AS SHOWN. ALL PIPE SLEEVES TO TH 120 V. AND 24 V. WIRING. WIRE SLEE	O BE 2 PIPE SIZES LARGER THAN PIPE TO BE INSTAL EVES TO BE 3" MIN. IRRIGATION CONTRACTOR SHALL CATION IS PROVIDED. COORDINATE WITH ELECTRICA	LEDTHROUGH SLEEVE. PROVID L COORDINATE WITH THE CONC	E SEPARATE SLEEVES FOR RETE CONTRACTOR TO	PRINCE OF WALES JUNIPER BLACK-EYED SUSAN
POS 4. C	SIBLE. ONTRACTOR SHALL PROVIDE ALL DEVI	ICES, WIRING AND PROGRAMMING AT CONTROLLER	FOR A COMPLETE OPERATIONA	L SYSTEM. CONTRACTOR	BLANKET FLOWER HAPPY RETURNS DAYLILY
5. L SHC	WN, FIELD VERIFY.	ARY. ACTUAL LOCATIONS SHALL BE IN ALL LOW SPO			BLAZING STAR PRAIRIE DUSK BEARD TONGUE STONECROP MIX
SHC 7. C	OWN, FIELD VERIFY. ONTRACTOR SHALL MAINTAIN AN ACCU	VARY. ACTUAL LOCATIONS SHALL BE IN ALL HIGH SF URATE, CURRENT AS-BUILT ON THE JOB AT ALL TIMES	5.		BIG BLUESTEM BLUE OAT GRASS
CO1 9. D	NDUITS SHALL BE ELECTRICAL GRADE ESIGN BASED ON 15 GPM @ 60 PSI.	EAL OR BURY WHEREVER POSSIBLE. ALL VISIBLE CO SCHEDULE 40 PVC. ALL CONDUITS ABOVE GRADE SH	HALL BE SCHEDULE 80 PVC.		BASIN WILDRYE BLUEBUNCH WHEATGRASS
LAN 11. I	DSCAPING AREAS.	VN IN PAVED AREAS FOR GRAPHICAL CLARITY. PIPING E PLANTS. EMITTER SCHEDULE BASED ON INITIAL INS			PRAIRIE DROPSEED NORTHWIND SWITCH GRASS
ROLLER 12. 1 13. 7 ALL RACTOR. CON SUE DO	REFER TO CIVIL DRAWINGS FOR EXIST ALL MATERIALS (STEEL & IRON) USED ( PROJECT SUBMITTALS MUST BE ACCC NTRACTOR SHALL SUBMIT A WAIVER AS MITTAL OR SUBMITTALS WILL BE REJE	TING AND FINAL PROPOSED CONTOURS AND GRADE I ON THIS PROJECT ARE SUBJECT TO THE FEDERAL BU OMPANIED WITH THE APPROPRIATE BUY AMERICA CE S SPECIFIED IN THE SPECIFICATIONS. ALL BUY AMER ECTED. THE PRODUCTS AND MANUFACTURERS SCHE I THE BUY AMERICAN REQUIREMENTS.	JY AMERICA ACT, AS SPECIFIED RTIFICATION OR IF MATERIALS ( ICAN REQUIREMENTS MUST BE	IN THE CONTRACT DOCUMENTS. CANNOT MEET THE REQUIREMENT, LISTED IN THE PRODUCT DATA	
14.		Iorrison	DRAWN BY: <u>GSG</u> DSGN. BY: <u>NGS</u>		SHERIDAN COUNTY
ER 1925 Grand EN Billings, MT	Avenue, Suite 105	1aierle	APPR. BY: <u>NGS</u> SH	IERIDAN	BROOKS STREET GREENSPACE



# MITTER SCHEDULE:

PLANT	NO. OF EMITTERS	GPH MODEL NO.
DAKOTA PINNACLE JAPANESE WHITE BIRCH	2	RWS-B-C-1402
IMPERIAL HONEYLOCUST	3	RWS-B-C-1402
IVORY PILLAR JAPANESE TREE LILAC	2	RWS-B-C-1402
MEDORA JUNIPER	2	GPSTCV2
PRAIRIE ROSE FLOWERING CRABAPPLE	2	RWS-B-C-1402
ARCTIC FIRE DOGWOOD	2	GPSTCV2
CRIMSON PYGMY BARBERRY	2	GPSTCV2
GOLDEN CURRANT	3	GPSTCV2
THREE LEAFED SUMAC	3	GPSTCV2
GRO-LOW SUMAC	2	GPSTCV2
GOLDFINGER POTENTILLA	2	GPSTCV2
MOUNTAIN NINEBARK	2	GPSTCV2
MCKAY'S WHITE POTENTILLA	2	GPSTCV2
LITTLE DEVIL NINEBARK	2	GPSTCV2
ARCADIA JUNIPER	2	GPSTCV2
PRINCE OF WALES JUNIPER	2	GPSTCV2
BLACK-EYED SUSAN	1	GPSTCV1
BLANKET FLOWER	1	GPSTCV1
HAPPY RETURNS DAYLILY	1	GPSTCV2
BLAZING STAR	1	GPSTCV1
PRAIRIE DUSK BEARD TONGUE	1	GPSTCV1
STONECROP MIX	1 PER 2 PLANTS	GPSTCV05
BIG BLUESTEM	2	GPSTCV1
BLUE OAT GRASS	2	GPSTCV1
BASIN WILDRYE	2	GPSTCV1
BLUEBUNCH WHEATGRASS	2	GPSTCV1
PRAIRIE DROPSEED	1	GPSTCV1
NORTHWIND SWITCH GRASS	2	GPSTCV1

# 0 5' 10' 20' NORTH

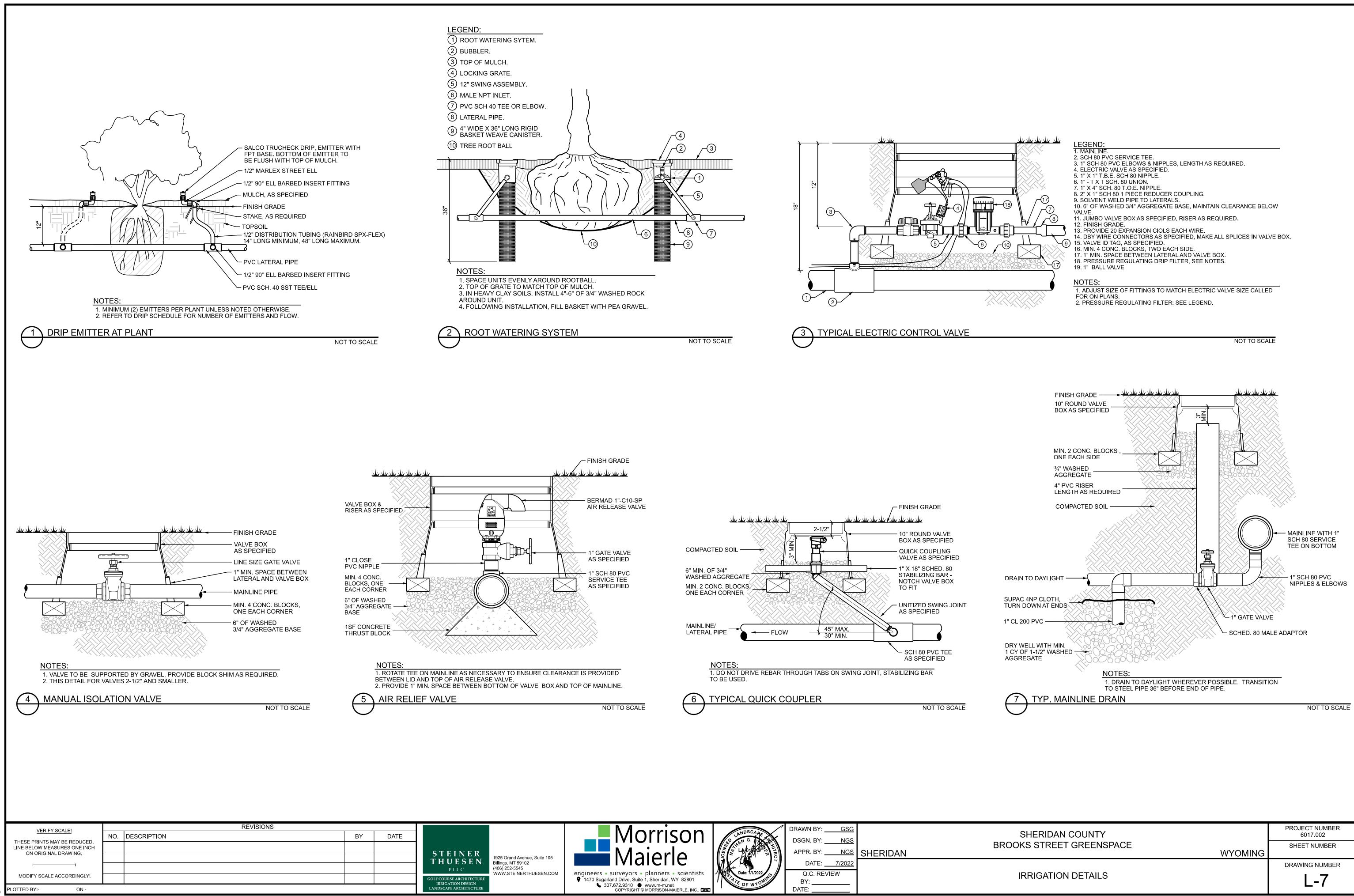


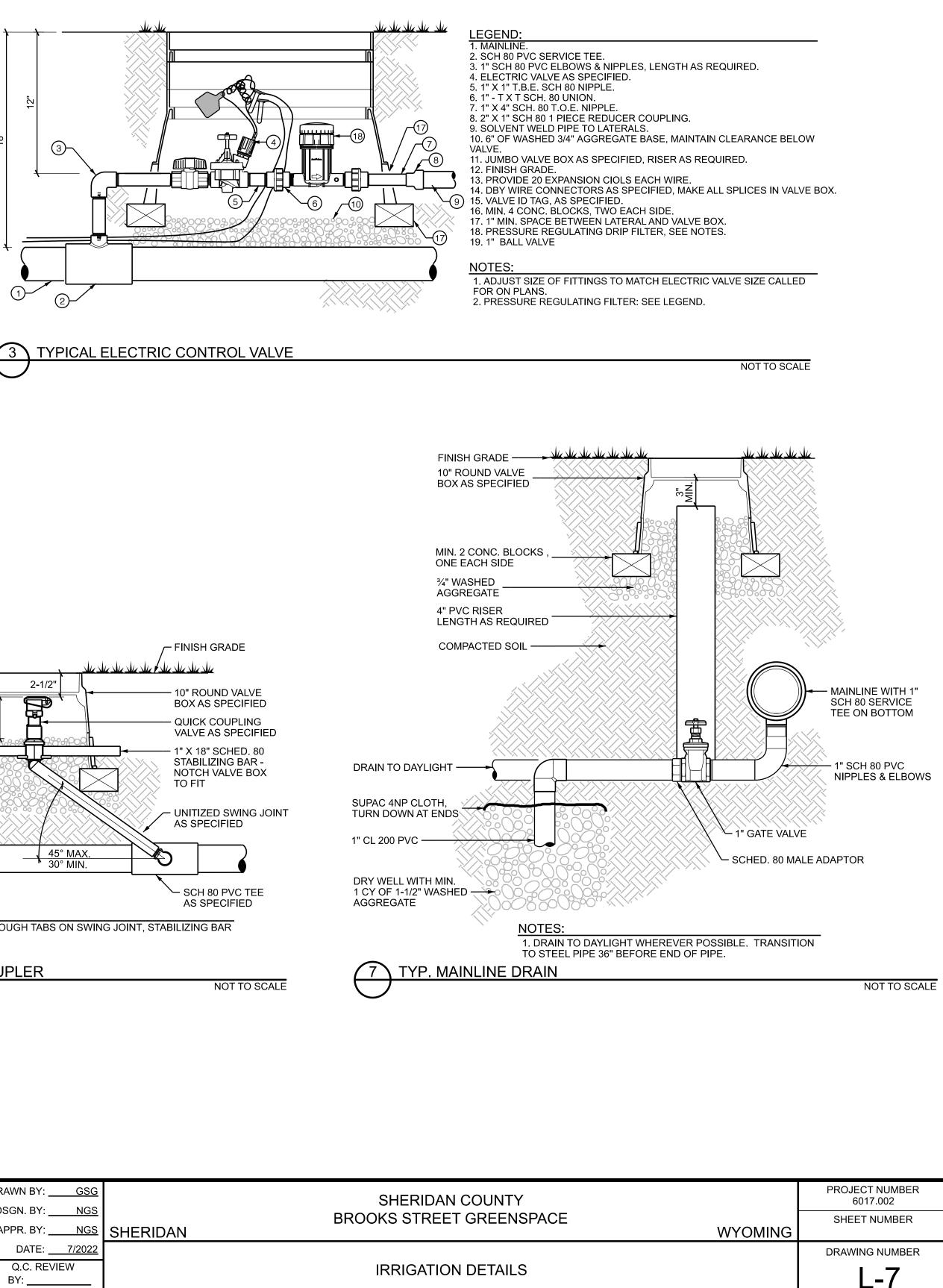
PROJECT NUMBER 6017.002

SHEET NUMBER

WYOMING DRAWING NUMBER

L-6





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VERIFY SCALE!       NO.       DESCRIPTION       BY       DATE         THESE PRINTS MAY BE REDUCED. LINE BELOW MEASURES ONE INCH ON ORIGINAL DRAWING.       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I <td>NOTES: 1.120 V. WIRE TO BE INS AS SHOWN ON THE PLAN NOTES: 1.120 V. WIRE AT MAIN 2. LOW VOLTAGE WIRE AT THE 120 V. WIRE AT MAIN</td> <td>PE &amp; BUNDLE ALL WIRING AT 10' VALS. USE 6'' WIDE MARKING TAPP BOVE ALL DIRECT BURIAL 120 V. ING AND MAINLINE. ALL SPLICES JOL COATED ON AS-BUILT PLANS. 0 V. WIRING SHALL BE IN CONDUIT H MARKER TAPE AS ABOVE. ALL GUNDER PAVEMENT &amp; THROUGH ES SHALL BE IN CONDUIT. PROVIDE PULL BOXES AS REQUIRED. EA LOOSE 20'' LOOP IN WIRING TALL CHANGES IN DIRECTION ATER THAN 30''. UNTIE ALL LOOPS FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FILS ON THE ALL LOOPS FFER MAKING CONNECTIONS. FILS ON THE SIDE OF THE MAINLINE RE TALLED ON THE SIDE OF THE MAINLINE S. O BE BUNDLED AND INSTALLED OPPOSITE ILINE PIPE DEPTH. ETAILS</td> <td>JRY LOW ONLY TES 10' D.C. MAX. BURY ATERAL</td> <td></td>	NOTES: 1.120 V. WIRE TO BE INS AS SHOWN ON THE PLAN NOTES: 1.120 V. WIRE AT MAIN 2. LOW VOLTAGE WIRE AT THE 120 V. WIRE AT MAIN	PE & BUNDLE ALL WIRING AT 10' VALS. USE 6'' WIDE MARKING TAPP BOVE ALL DIRECT BURIAL 120 V. ING AND MAINLINE. ALL SPLICES JOL COATED ON AS-BUILT PLANS. 0 V. WIRING SHALL BE IN CONDUIT H MARKER TAPE AS ABOVE. ALL GUNDER PAVEMENT & THROUGH ES SHALL BE IN CONDUIT. PROVIDE PULL BOXES AS REQUIRED. EA LOOSE 20'' LOOP IN WIRING TALL CHANGES IN DIRECTION ATER THAN 30''. UNTIE ALL LOOPS FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FFER MAKING CONNECTIONS. FILS ON THE ALL LOOPS FFER MAKING CONNECTIONS. FILS ON THE SIDE OF THE MAINLINE RE TALLED ON THE SIDE OF THE MAINLINE S. O BE BUNDLED AND INSTALLED OPPOSITE ILINE PIPE DEPTH. ETAILS	JRY LOW ONLY TES 10' D.C. MAX. BURY ATERAL	
VERIFY SCALE!       NO.       DESCRIPTION       BY       DATE         THESE PRINTS MAY BE REDUCED. LINE BELOW MEASURES ONE INCH ON ORIGINAL DRAWING.       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I <td><b>_</b></td> <td>REVIS</td> <td>ONS</td> <td></td>	<b>_</b>	REVIS	ONS	
ON ORIGINAL DRAWING.       STEINER         MODIFY SCALE ACCORDINGLY!       One of the second se	THESE PRINTS MAY BE REDUCED.			DATE
MODIFY SCALE ACCORDINGLY!     Image: Contract of the second	LINE BELOW MEASURES ONE INCH			STEINER
MODIFY SCALE ACCORDINGLY! GOLF COURSE ARCHITECTUL IRRIGATION DESIGN				
•	MODIFY SCALE ACCORDINGLY!			GOLF COURSE ARCHITECTU

PLOTTE	D BY:-	0

# 5 RAIN BIRD.

# KEY NOTES:

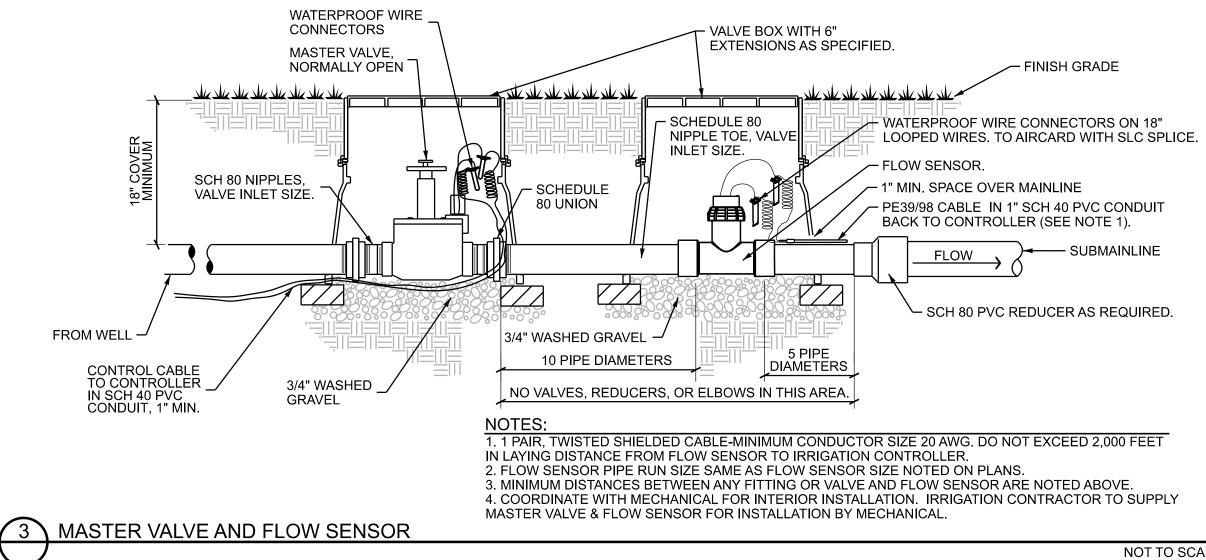
- (1) WALL MOUNT CONTROLLER AS SPECIFIED.
- 2 120 V. JUNCTION BOX WITH INTERMATIC #AG-2401 120 V SURGE ARRESTOR.
- (3) 1" CONDUIT AND FITTINGS TO POWER SUPPLY.
- 4 120 V. POWER SUPPLY WIRE.
- 5 RAIN SENSOR CONTROLLER INTERFACE WITH CABLE HARNESS.
- (6) 2" CONDUIT AND FITTINGS FOR CONTROL CABLE.
- (7) CONTROL CABLE TO VALVES.
- (8) 1" CONDUIT AND FITTINGS TO GROUNDING GRID. (9) #10 BARE COPPER WIRE TO GROUNDING GRID.

## NOTES:

1. SEAL ALL PENETRATIONS. 2. PROVIDE ALL FITTINGS AS REQUIRED FOR PROPER

INSTALLATION. 3. ALL CONDUIT SHALL BE INSTALLED IN A NEAT AND CLEAN MANNER AND BE SECURED TO ALL SURFACES.

NOT TO SCALE





1925 Grand Avenue, Suite 105 Billings, MT 59102 (406) 252-5545 WWW STEINERTHUESEN.COM





DRAWN BY: <u>GSG</u> DSGN. BY: <u>NGS</u> APPR. BY: <u>NGS</u> SHERIDAN DATE: <u>7/2022</u> Q.C. REVIEW BY:

DATE:

NOT TO SCALE

SHERIDAN COUNTY		PROJECT NUMBER 6017.002
BROOKS STREET GREENSPACE		SHEET NUMBER
WYON	ling _	
		DRAWING NUMBER
IRRIGATION DETAILS		L-8