ECOTOURISM VISITORS CENTER

221 ETHETE RD, FORT WASHAKIE, WY 82514



ABBREVIATIONS

A	
AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
AD	ADDENDUM
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
ADMIN	ADMINISTRATION
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL
AP	ACOUSTIC PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B	
BCS	BABY CHANGING STATION
BD	BOARD
BF	BAFFLE
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK, BLOCKING
BO	BOTTOM OF
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BTM	BOTTOM
BUR	BUILT UP ROOF
C	
CAB	CABINET
CAP	CAPACITY
CCD	COILING COUNTER DOOR
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT, FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
CHAM	CHAMFER
CHDB	CHALKBOARD
CI	CONTINUOUS INSULATION
CIP	CAST IN PLACE
CIR	CIRCLE
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLK	CAULK, CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COEF	COEFFICIENT
COL	COLUMN
COMB	COMBINATION
COMP	COMPOSITE
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET, CARPETED
CPTB	CARPET BASE
CS	COUNTERSINK
CSMT	CASEMENT
CT	CERAMIC TILE
CTR	CENTER
CW	CURTAIN WALL
CY	CUBIC YARD, YARDS

D	
D	DEEP, DEPTH
DB	DECIBEL, DECIBELS
DBL	DOUBLE
DEG	DEGREE, DEGREES
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DOOR FINISH
DG	DECORATIVE GLASS
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISH WASHER
DWF	DECORATIVE WINDOW FILM
DWG	DRAWING
DWL	DOWEL
E	
EA	EACH
EFIS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	ENTERANCE MAT
EMER	EMERGENCY
ENCL	ENCLOSE, ENCLOSURE
ENG	ENGINEER
EPDM	ETHYLENE PROPYLENE DIENE TERPOLYMER
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EXG	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
F	
FAB	FABRICATE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER ON BRACKETS
FEC	FIRE EXTINGUISHER CABINET
FEP	FINISHED END PANEL
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN	FINISH, FINISHED
FL	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FP	FIRE PROTECTION
FR	FRAME, FRAMED, FRAMING
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FUR	FURRED, FURRING
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GKT	GASKET, GASKETED
GL	GLASS, GLAZING
GMU	GLASS MASONRY UNIT
GYP	GYPSUM

H	
H/HT	HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAP, HANDICAPPED
HD	HEAD
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPT	HIGH PERFORMANCE PAINT
HR	HOUR
HVAC	HEATING/VENTING/AIR CONDITIONING
HWD	HARD WOOD
HYD	HYDRAULIC
I	
IC	INTEGRAL COVE BASE
ID	INSIDE DIAMETER
IF	INSIDE FACE
IHM	INSULATED HOLLOW METAL
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTB	INTEGRAL BASE
IS	INTEGRAL SINK
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCK OUT
L	
LAB	LABORATORY
LAM	LAMINATE, LAMINATED
LAT	LATERAL
LAV	LAVATORY
LB	POUND, POUNDS
LG	LAMINATED GLAZING
LH	LEFT HAND
LIB	LIBRARY
LIN	LINEAR
LOC	LOCATE
LT	LIGHT
LTG	LIGHTING
LTL	LINTEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MG	MIRRORED GLASS
MH	MAN HOLE
MIL	MILLIMETERS
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	METAL PANEL
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MW	MICROWAVE
N	
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO/#	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVER HEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE, OUNCES
P	
PAR	PARALLEL
PBD	PARTICLE BOARD
PC	PRECAST
PCC	PRECAST CONCRETE
PEMB	PRE-ENGINEERED METAL BUILDING
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PLWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
POLY ISO	POLYISOCYANURATE
PR	PROPOSAL REQUEST
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PREP	PREPARE, PREPARATION
PRES	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PST	POST TENSIONED
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PV	POLYVINYL
PVC	POLYVINYL CHLORIDE
PWC	PROTECTIVE WALL COVERING
Q	
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTY	QUANTITY
QTZ	QUARTZ
R	
RA	RADIUS
RB	RUBBER
RBB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
REBAR	REINFORCING BAR
REC	RECEPTACLE
REF	REFERENCE, REFERENCING
REFR	REFRIGERATOR
REINF	REINFORCE, REINFORCING
REQ	REQUIRED
REV	REVISED, REVISION
RF	RESILIENT FLOORING
RH	RIGHT HAND
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RP	RESINOUS PANEL
RR	RESTROOM
RRD	RAILROAD
RS	RESINOUS FLOORING
RTU	ROOF TOP UNIT

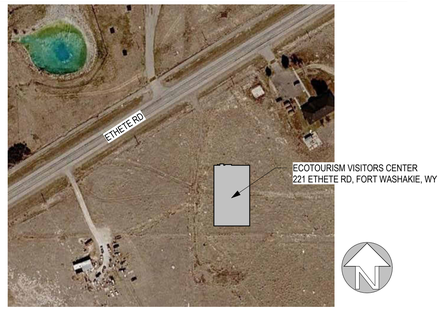
S	
SC	SEALED CONCRETE
SCF	STATIC CONTROL FLOORING
SCHED	SCHEDULE
SCTV	SECURITY CAMERA TELEVISION
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FOOT, FEET
SGL	SINGLE
SHTG	SHEATHING
SI	SQUARE INCH, INCHES
SIM	SIMILAR
SLR	SEALER
SN	STAIN
SND	SANITARY NAPKIN DISPOSAL
SNDR	SANITARY NAPKIN DISPENSER
SNT	SEALANT
SOG	SLAB ON GRADE
SP	STANDPIPE
SPEC	SPECIFICATION
SPR	SINGLE PLY ROOFING
SQ	SQUARE
SS	SOLID SURFACE
SST	STAINLESS STEEL
ST	SCHLUTER TRANSITION
STA	STATION
STC	SOUND TRANSMISSION COEFFICENT
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND, SUSPENDED
SY	SQUARE YARD
SYM	SYMMETRICAL
T	
T	TILE
T&G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPORARY
TEMPR	TEMPERATURE
TERM	TERMINATE, TERMINAL
THRU	THROUGH
TO	TOP OF
TPD	TOILET PAPER DISPENSER
TSE	TOP OF SLAB ELEVATION
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZZO
TZB	TERRAZZO BASE
TP	TOILET PARTITION
U	
UC	UNDER CABINET / UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UNEXC	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPH	UPHOLSTERY
UR	URINAL
UTIL	UTILITY
V	
VAPB	VAPOR BARRIER
VAR	VARIES
VB	VINYL BASE
VCB	VENTED COVE BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOC	VOLATILE ORGANIC COMPOUND
VT	VINYL TRANSITION

W	
W	WITH
W/O	WITHOUT
W/WID	WIDTH
WC	WALL COVERING
WCL	WATER CLOSET
WD	WOOD
WDB	WOOD BASE
WDF	WOOD FLOORING
WDW	WINDOW
WKP	WORKING POINT
WOC	WALK OFF CARPET
WP	WATERPROOFING
WP	WALL PROTECTION
WR	WASTE RECEPTACLE
WS	WINDOW SHADE
WT	WALL TILE
WWF	WELDED WIRE FABRIC
Y	
YD	YARD
YR	YEAR

MATERIAL INDICATIONS

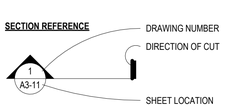
- BLOCKING OR SHIM
- COMMON / FACE BRICK
- CONCRETE
- CONCRETE MASONRY UNIT
- EARTH / COMPACT FILL
- EXISTING
- GRANULAR FILL
- GYPSUM BOARD
- INSULATION - BATT OR SEMI RIGID
- INSULATION - BLOWN IN
- INSULATION - SPRAY FOAM
- LOOSE FILL
- PLYWOOD
- PRECAST
- RIGID INSULATION
- STEEL / ALUMINUM
- STONE
- WOOD 1
- WOOD 2
- WOOD FRAMING

PROJECT LOCATION

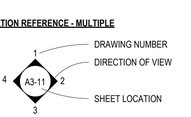


SYMBOLS

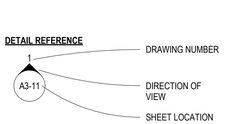
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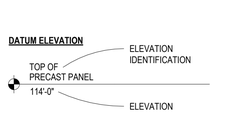
ELEVATION REFERENCE - SINGLE



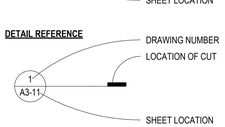
SECTION REFERENCE



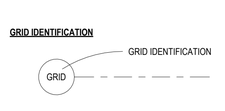
ELEVATION REFERENCE - MULTIPLE



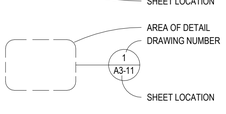
DETAIL REFERENCE



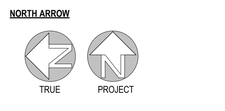
DATUM ELEVATION



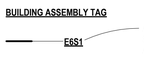
DETAIL REFERENCE



GRID IDENTIFICATION



NORTH ARROW



REVISION CLOUD AND TAG

BUILDING ASSEMBLY TAG

PROJECT DIRECTORY

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ELECTRICAL ENGINEER
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CIVIL ENGINEER
KLJ ENGINEERING
2611 GABEL ROAD
BILLINGS, MT 59102
PHONE: 406-245-5499

GENERAL NOTES:

A. CONTRACTOR RESPONSIBLE FOR MAINTAINING CURRENT DOCUMENTATION INCLUDING ALL REVISIONS. IF REQUIRED, REQUEST CURRENT CAD/REVIT FILE(S).
B. REPORT ALL DRAWING/SPECIFICATION DISCREPANCIES OR OMISSIONS TO THE ARCHITECT/ENGINEER IMMEDIATELY. IF UNREPORTED, ASSUME THE HIGHER COST (GREATER QUANTITY OR QUALITY). INTERPRETATIONS WILL BE ISSUED ONLY VIA WRITTEN ADDENDA AS ORAL MODIFICATIONS ARE NOT VALID.
C. BY BIDDING, THE CONTRACTOR AFFIRMS REVIEW AND UNDERSTANDING OF ALL DOCUMENTS AND ADDENDA. CONTRACTORS MUST CLARIFY UNCERTAINTIES TO ARCHITECT/ENGINEER BEFORE BIDDING. FAILURE TO DO SO WAIVES CLAIMS FOR EXTRA COMPENSATION OR MISUNDERSTANDING.
D. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. ITEMS MENTIONED IN EITHER ARE BINDING. ANY CONFLICTS MUST BE RESOLVED BY CONSULTING THE ARCHITECT/ENGINEER. ALL DOCUMENTS MUST BE CONSIDERED DURING BIDDING.
E. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM, EVEN IF NOT EXPLICITLY SHOWN OR SPECIFIED. MATERIALS SHOWN BUT NOT SPECIFIED—OR VICE VERSA—ARE DEEMED BOTH SHOWN AND SPECIFIED.
F. VERIFY ALL SITE CONDITIONS BEFORE STARTING WORK. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS WITH "AS-BUILT" CONDITIONS. NO BID INCREASES WILL BE ALLOWED DUE TO FAILURE TO VERIFY SITE CONDITIONS.
G. ALL WORK MUST COMPLY WITH CURRENT APPLICABLE STATE AND LOCAL CODES, ORDINANCES, AND STANDARDS.

DELEGATED DESIGN & SUBMITTALS

DIVISION 27 & 28 - AV & LOW VOLTAGE
DIVISION 21 - FIRE SUPPRESSION
12 5100 - OFFICE FURNITURE

ALTERNATES (ITEMIZED SEPARATELY)

ALTERNATE NO. 1 (DEDUCT)
BASE BID ITEM: PROVIDE AND INSTALL ALL FINISHES, FIXTURES, AND EQUIPMENT IN ROOMS PLAN EAST OF GRID 2 AS INDICATED IN THE BID DOCUMENTS.
ALTERNATE ITEM: PROVIDE A DEDUCT VALUE TO OMIT FINISHES, FIXTURES, AND EQUIPMENT IN ROOMS PLAN EAST OF GRID 2: FINISH FLOORING, CEILINGS, WALL BASE, PAINT, REFRIGERATORS AND FREEZERS WITH ASSOCIATED TRACK AND STRUCTURAL SUPPORT, RESTROOM FIXTURES, HOLDING TANK WITH ASSOCIATED 4" PVC PIPE, AND ELECTRICAL FIXTURES. WALL AND DOORS ALONG GRID 2 SHALL REMAIN.

ALTERNATE NO. 2 (DEDUCT)
BASE BID ITEM: ACCEPT ALTERNATE 1.
ALTERNATE ITEM: PROVIDE A DEDUCT VALUE TO OMIT THE CONCRETE SLAB AND UNDERGROUND UTILITIES IN THE AREA PLAN EAST OF GRID 2. MECHANICAL VENTILATION SYSTEM SERVING ROOMS PLAN EAST OF GRID 2 SHALL REMAIN.

ALTERNATE NO. 3 (DEDUCT)
BASE BID ITEM: ACCEPT ALTERNATES 1 AND 2.
ALTERNATE ITEM: PROVIDE A DEDUCT VALUE TO OMIT BUILDING CONSTRUCTION PLAN EAST OF GRID 2. THE PRE-ENGINEERED METAL BUILDING ENDWALL, AND ASSOCIATED FOUNDATION, ALONG GRID 1 SHALL SHIFT PLAN WEST 24 '-8". COORDINATE MECHANICAL, ELECTRICAL, AND STRUCTURAL REQUIREMENTS.

ALLOWANCES

ALLOWANCE NO. 1 (TAXIDERMY DISPLAY ALCOVE) VALUE: $10,000
ALLOWANCE INCLUDES PROFESSIONAL TAXIDERMY GRADE HABITAT MATERIALS USED TO COMBINE THE OWNERS EXISTING TAXIDERMY INTO ONE COHESIVE INSTALLATION.

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COREY A. BRUNTON
C-3502
Date 11/02/2026
STATE OF WYOMING

Plan Review Stamp:

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XXX REVISION:

No.: 25494-1 | Date: 11-02-2026
Drawn: GEP | Checked: CRA
Project Manager: GEP
Project Status: CONSTRUCTION DOCS

Sheet Title:
COVER SHEET

Sheet No.:
G1-11

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APPLICABLE CODES

2024 INTERNATIONAL BUILDING CODE (IBC)
2024 INTERNATIONAL MECHANICAL CODE (IMC)
2024 INTERNATIONAL PLUMBING CODE (IPC)
2024 INTERNATIONAL FIRE CODE (IFC)
2024 INTERNATIONAL FUEL GAS CODE (IFGC)
ANSI A117.1 2017

PROJECT SUMMARY

BUILDING SUMMARY: BUSINESS AND STORAGE FACILITY COMPRISED OF PRE-ENGINEERED METAL BUILDING SHELL AND INTERIOR METAL STUDS.

BUILDING USE: OFFICE SPACE WITH TRAINING ROOM AND VEHICLE STORAGE (A-3, B, S-1, S-2)

BUILDING CONSTRUCTION TYPE: II-B

BUILDING IS FIRE SPRINKLED (NFPA 13)

CHAPTER 3: OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION	AREA
FIRST FLOOR	
A-3	1250 SF
B	5784 SF
S-1	8623 SF
S-2	979 SF
	16636 SF
TOTAL SQUARE FOOTAGE	16636 SF

CHAPTER 5: GENERAL BUILDING LIMITATIONS

ALLOWABLE HEIGHTS & AREAS

CONSTRUCTION TYPE = II-B

OCCUPANCY	HIGHEST FLOOR LOCATED	PROPOSED AREA	ALLOWABLE AREA (TABLE 503)	ALLOWABLE STORIES (TABLE 503)
A-3 (MOST RESTRICTIVE)	1	SEE OCCUPANCY CLASSIFICATION TABLE	38,000	3 (75'-0")
B	1		92,000	4 (75'-0")
S-1	1		70,000	4 (75'-0")
S-2	1		104,000	4 (75'-0")

SECTION 508.3: NON-SEPARATED OCCUPANCIES

508.3.1 - OCCUPANCY CLASSIFICATION - NON-SEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THE CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF EACH NON-SEPARATED SPACE. THE MOST RESTRICTIVE PROVISIONS FROM CHAPTER 9 SHALL APPLY TO THE WHOLE FACILITY.

508.3.2 - ALLOWABLE BUILDING AREA AND HEIGHT - THE ALLOWABLE BUILDING AREA AND HEIGHT OF THE BUILDING OR PORTION THEREOF SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATIONS FOR THE TYPE OF CONSTRUCTION OF THE BUILDING

508.3.3 - SEPARATION - NO SEPARATION IS REQUIRED BETWEEN NON-SEPARATED OCCUPANCIES.

CHAPTER 6: CONSTRUCTION TYPES/REQUIREMENTS

TABLE 601: FIRE RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS IN HOURS

GROUP	CONSTRUCTION TYPE	BUILDING ELEMENT	RATING (HOURS)
A-3, B, S-1, S-2	II-B	STRUCTURAL FRAME	0
		BEARING WALLS - EXTERIOR	0
		BEARING WALLS - INTERIOR	0
		NON-BEARING WALLS - EXTERIOR	0
		NON-BEARING WALLS - INTERIOR	0
		FLOOR CONSTRUCTION	0
		ROOF CONSTRUCTION	0

TABLE 602: FIRE RESISTIVE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (HOURS)

GROUP	CONSTRUCTION TYPE	FIRE SEPARATION DISTANCE	RATING (HOURS)
A-3, B, S-1, S-2	II-B	X ≥ 30'	0

SECTION 702 DEFINITIONS:

FIRE SEPARATION DISTANCE - THE DISTANCE MEASURED FROM THE BUILDING FACE TO ONE OF THE FOLLOWING:

1. THE CLOSEST INTERIOR LOT LINE
2. TO THE CENTERLINE OF A STREET, AN ALLEY OR PUBLIC WAY; OR
3. TO AN IMAGINARY LINE BETWEEN TWO BUILDINGS ON THE PROPERTY.

CHAPTER 7: FIRE RATED CONSTRUCTION

GROUP	CONSTRUCTION TYPE	IBC SECTION AND DESCRIPTION	RATING (HOURS)
A-3, B, S-1, S-2	II-B	705 EXTERIOR WALLS	NA
		706 FIRE WALLS	NA
		707 FIRE BARRIERS (707.5 CONTINUITY)	NA
		708 FIRE PARTITIONS	NA
		713 SHAFT ENCLOSURES (<4 STORY - 1 HOUR)	NA

CHAPTER 9: FIRE PROTECTION SYSTEMS

GROUP	CONSTRUCTION TYPE	SYSTEM REQUIRED / USED
A-3, B, S-1, S-2	II-B	NFPA 13

CHAPTER 10: MEANS OF EGRESS / OCCUPANT LOADS

TABLE 1006.2.1 COMMON PATH OF EGRESS TRAVEL: 100 FT AT B & S OCCUPANCIES
TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE: 250 FT AT A OCCUPANCY & S-1 OCCUPANCY, 300 FT AT B, 400 FT AT S-2
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING: 0 HOURS AT A, B, AND S OCCUPANCIES
SECTION 1020.5 DEAD END CORRIDORS: 20 FT. MAX FOR A OCCUPANCIES, 50 FT. MAX FOR B & S OCCUPANCIES

OCCUPANCY LOAD TABULATION

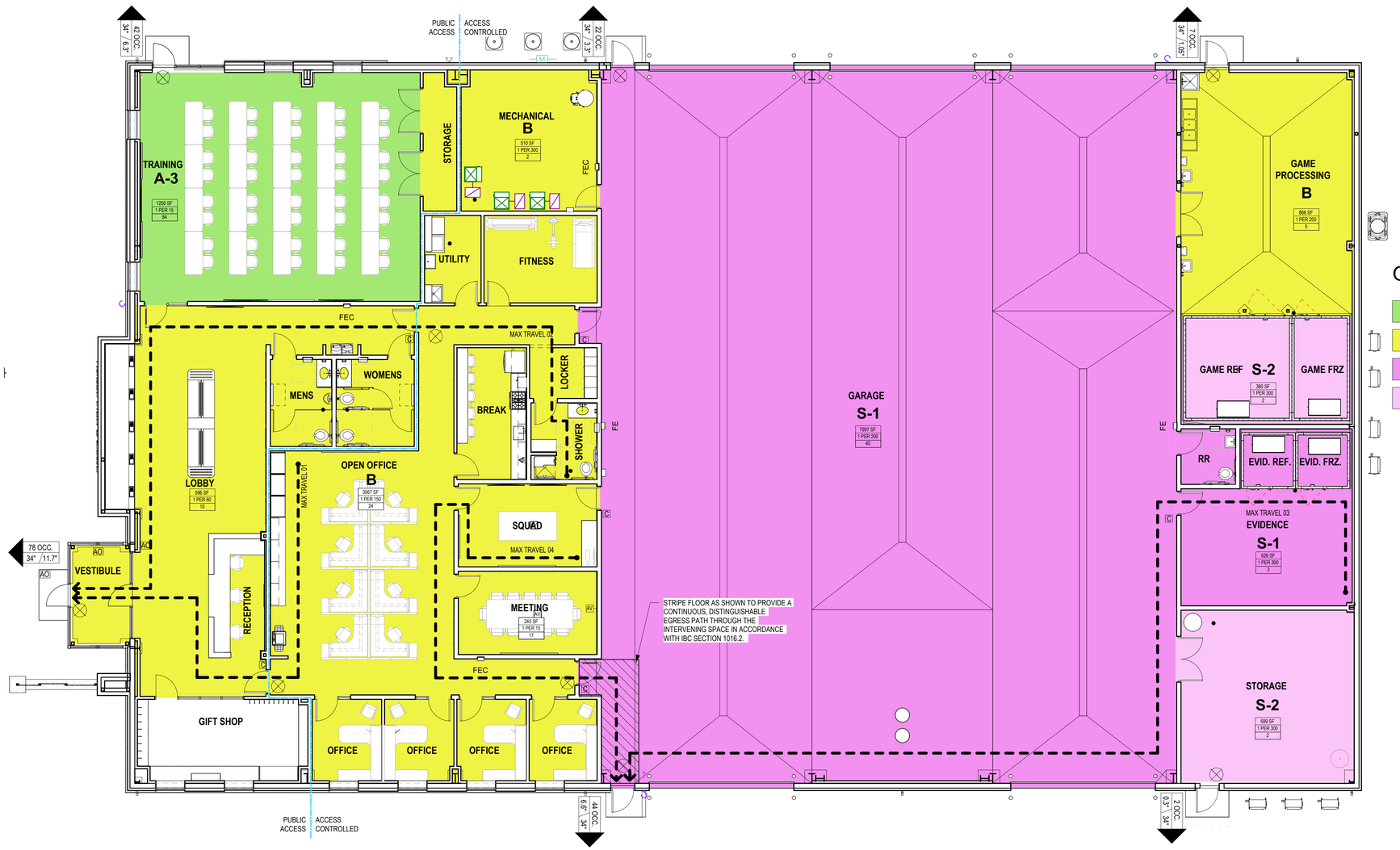
REV	USE/FUNCTION	AREA: S.F.	OCC LOAD FACTOR	SQ FT TYPE	OCCUPANT LOAD
FIRST FLOOR					
A-3					
	TRAINING	1250.5 SF	15	NET	84.0
B					
	OFFICE	3567.4 SF	150	GROSS	24.0
	GAME PROCESSING	865.9 SF	200	GROSS	5.0
	MECH/UTIL	510.1 SF	300	GROSS	2.0
	MEETING	244.9 SF	15	NET	17.0
	LOBBY	595.8 SF	60	GROSS	10.0
S-1					
	GARAGE	7996.5 SF	200	GROSS	40.0
	EVIDENCE	626.0 SF	300	GROSS	3.0
S-2					
	GAME REF/FRZ	380.1 SF	300	GROSS	2.0
	STORAGE	598.8 SF	300	GROSS	2.0
					189.0
GRAND TOTAL					189.0

CHAPTER 29: PLUMBING FIXTURES REQUIRED

REV	PLUMBING CLASSIFICATION	PLUMBING OCCUPANCY	WC MEN	WC WOMEN	LAV MEN	LAV WOMEN	DRINKING FOUNTAIN
	ASSEMBLY	84	0.34	0.65	0.42	0.42	.17
	BUSINESS	64	1.28	1.28	0.8	0.8	0.32
	STORAGE	47	0.24	0.24	0.24	0.24	0.24
			1.86	2.17	1.46	1.46	0.73
REQUIRED			2	3	2	2	1
PROVIDED			2 MEN, 2 WOMEN, 2 UNISEX		1 MEN, 1 WOMEN, 2 UNISEX		1 HIGH, 1 LOW

FACTOR FROM (TABLE 2902.1)

CLASSIFICATION	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	OTHER
ASSEMBLY - LECTURE HALL / GYM	1 PER 125 MEN; 1 PER 65 WOMEN	1 PER 200	1 PER 500	1 SERVICE SINK
BUSINESS	1 PER 25 FOR THE FIRST 50; 1 PER 50 FOR THE REMAINDER	1 PER 40 FOR THE FIRST 80; 1 PER 80 FOR THE REMAINDER	1 PER 100	1 SERVICE SINK
STORAGE	1 PER 100	1 PER 100	1 PER 1000	1 SERVICE SINK



1 G1-21 **FIRST FLOOR CODE PLAN**
1/8" = 1'-0"

OCC TYPES

- A-3
- B
- S-1
- S-2

TRAVEL DISTANCES

REV	PATH ID	TOTAL LENGTH
	MAX TRAVEL 01	71' - 7"
	MAX TRAVEL 02	125' - 0"
	MAX TRAVEL 03	150' - 0"
	MAX TRAVEL 04	90' - 2"

CODE PLAN LEGEND

- EXIT DISCHARGE
- FE / FEC — FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET
- FDC — FIRE DEPARTMENT CONNECTION
- C — ACCESS CONTROL
- AO — AUTO OPERATOR ACTUATOR PLATE
- TRAVEL LINES
- AREA (### SF / 1 PER ### / ##) — OCC. LOAD FACTOR — OCCUPANT LOAD
- 0 OCC. / 0" / 34" — OCCUPANTS SERVED BY EGRESS — PROVIDED EGRESS WIDTH — REQUIRED EGRESS WIDTH
- AREA BOUNDARY LINE

TRUE PROJECT

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REVISION:

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Drawn: GEP	Checked: CRA
Project Manager: GEP	
Project Status: CONSTRUCTION DOCS	

Sheet Title:
CODE PLAN

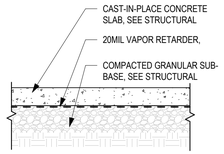
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G1-21

HORIZONTAL ASSEMBLIES - FLOOR

FLR# — CONCRETE SLAB ON GRADE

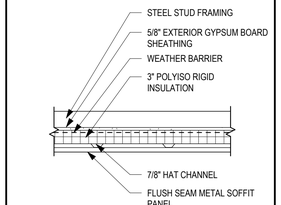
NOT RATED

NOTE: SEE STRUCTURAL FOR CONTROL JOINT LOCATIONS, ALL CONTROL JOINTS TO BE FILLED WITH POLYUREA SEALANT



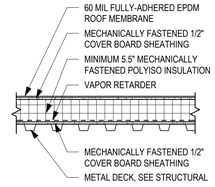
SFT-1 — ROOF SOFFIT ON METAL FRAMING - INSULATED

NOT RATED



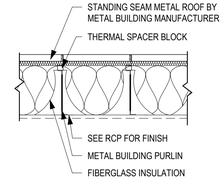
EPDM-1 — EPDM ROOF MEMBRANE OVER METAL DECK

NOT RATED — **R-30 c.i.**



SS-1 — STANDING SEAM METAL ROOF OVER METAL BUILDING

NOT RATED



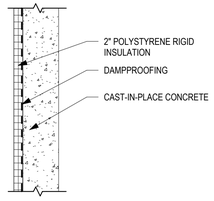
TYPE	STRUCTURE	ASSEMBLY MAX
SS-1	METAL DECK	U-0.026 (R-38.5 c.i.)

HORIZONTAL ASSEMBLIES - ROOF

WALL ASSEMBLIES - EXTERIOR

E#C — CAST-IN-PLACE CONCRETE FOUNDATION WALL WITH INSULATION

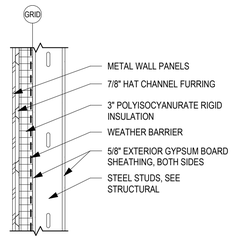
R-10 c.i.



WALL TYPE	STRUCTURE
E8C	8" CAST-IN-PLACE CONCRETE

E#S3 — STEEL STUD EXTERIOR CANOPY WALL W/ METAL PANELS

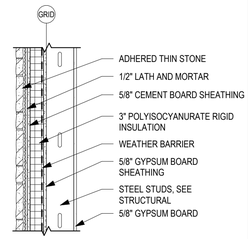
NOT RATED — **R-19.5 c.i.**



WALL TYPE	STRUCTURE
E6S3	STEEL STUDS - SEE STRUCTURAL

E#S2 — STEEL STUD EXTERIOR WALL W/ ADHERED STONE

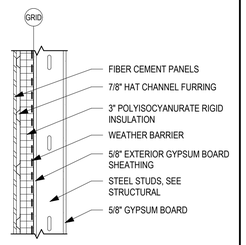
NOT RATED — **R-19.5 c.i.**



WALL TYPE	STRUCTURE
E6S2	STEEL STUDS - SEE STRUCTURAL

E#S1 — STEEL STUD EXTERIOR WALL W/ FIBER CEMENT PANELS

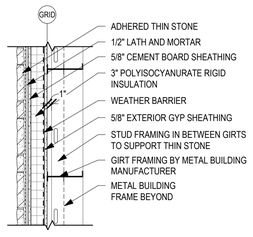
NOT RATED — **R-19.5 c.i.**



WALL TYPE	STRUCTURE
E6S1	STEEL STUDS - SEE STRUCTURAL

E#MP3 — PEMB W/ ADHERED STONE

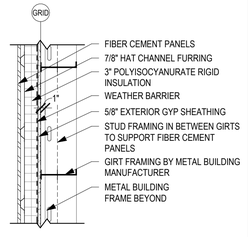
R-24 c.i.



WALL TYPE	STRUCTURE
E8MP3	8" STEEL Z GIRTS

E#MP2 — PEMB W/ FIBER CEMENT PANEL

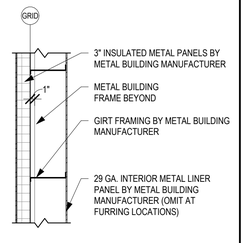
R-24 c.i.



WALL TYPE	STRUCTURE
E8MP2	8" STEEL Z GIRTS

E#MP1 — PEMB W/ INSULATED METAL PANELS

R-24 c.i.

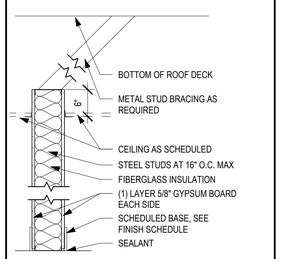


WALL TYPE	STRUCTURE
E8MP1	8" STEEL Z GIRTS

WALL ASSEMBLIES - INTERIOR

S#A — STEEL STUD W/ GYP BOARD EACH FACE - GYP 6" ABOVE CEILING

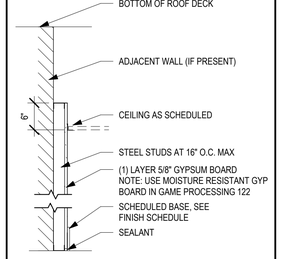
NOT RATED



WALL TYPE	STUD SIZE	WALL WIDTH
S4A	3 5/8" STEEL STUDS - 20 GA	4 7/8"
S6A	6" STEEL STUDS - 20 GA	7 1/4"

S#F1 — STEEL STUD FURRING (NON-RATED)

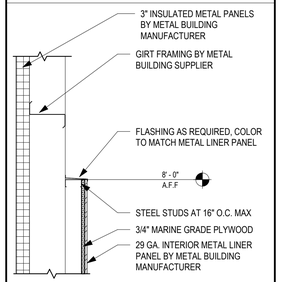
NOT RATED



WALL TYPE	STUD SIZE	WALL WIDTH
S4F1	4" STEEL STUDS - 20 GA	4 1/4"
S6F1	6" STEEL STUDS - 20 GA	6 5/8"

S#F2 — STEEL STUD FURRING W/ PLYWOOD AND METAL LINER PANEL - STUD TO DECK

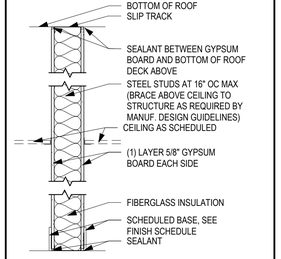
NOT RATED



WALL TYPE	STUD SIZE	WALL WIDTH
S4F2	3 5/8" STEEL STUDS - 20 GA	4 7/8"

S#D1 — STEEL STUD W/ GYP BOARD EACH FACE - STUD TO DECK (INSULATED)

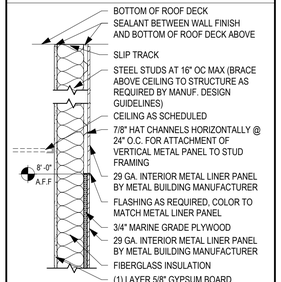
NOT RATED



WALL TYPE	STUD SIZE	WALL WIDTH
S6D1	6" STEEL STUDS - 20 GA	7 1/4"

S#D2 — STEEL STUD W/ GYP BOARD AND METAL LINER PANEL - STUD TO DECK (INSULATED)

NOT RATED

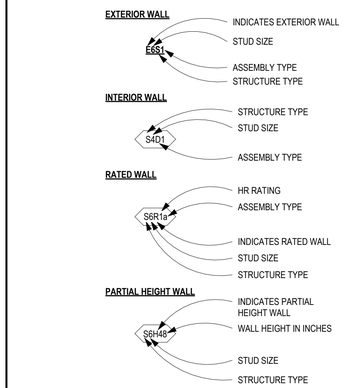


WALL TYPE	STUD SIZE	WALL WIDTH
S6D2	6" STEEL STUDS - 20 GA	7 7/8"

PARTITION NOTES

A. INTERIOR STEEL STUDS SHALL NOT BE LESS THAN 24 GAGE AND NOT MORE THAN 16" O.C. UNLESS OTHERWISE INDICATED. 22 GAGE STUDS (MIN) SHALL BE USED TO FRAME ALL DOORS, BORROWED LITE, PASS-THRU AND CASED OPENINGS.
B. USE METAL BLOCKING AT FIRE RATED PARTITIONS - WOOD BLOCKING NOT ACCEPTABLE WITHOUT PERMISSION OF LOCAL FIRE MARSHALL.
C. PROVIDE BACKING/BLOCKING IN PARTITIONS FOR WALL HUNG ITEMS.
D. CONSTRUCT NON-FULL HEIGHT PARTITIONS TO NOT LESS THAN 4" ABOVE HIGHEST ADJACENT CEILING. INSTALL CONTINUOUS TOP RUNNER AT NON-FULL HEIGHT STUD PARTITIONS AND BRACE TO STRUCTURE ABOVE WITH 45 DEGREE STUD STRUTS EACH WAY AT NOT MORE THAN 12'-0" ON CENTER BETWEEN INTERSECTING PARTITIONS OR FULL HEIGHT STUDS AT DOOR JAMBS.
E. ALL FIRE RATED AND ACOUSTIC RATED PARTITIONS SHALL EXTEND AND SEAL OFF TO STRUCTURE ABOVE.
F. PARTITIONS WITH GYPSUM BOARD OVER FURRING SHALL EXTEND TO NOT LESS THAN 6" ABOVE CEILING UNLESS OTHERWISE INDICATED. FULL HEIGHT WHERE NO CEILING OCCURS.
G. PROVIDE CONTROL JOINTS IN PARTITIONS AS REQUIRED BY GYPSUM MANUFACTURER. VERIFY LOCATIONS IF ANY WITH ARCH. PRIOR TO INSTALLATION.
H. MAINTAIN CONTINUITY OF FIRE RATED PARTITIONS AT INTERSECTIONS WITH NON-RATED OR LESSER RATED PARTITIONS.
I. ALL OUTSIDE CORNERS OF GYPSUM BOARD PARTITIONS SHALL HAVE METAL CORNER BEADS.
J. ALL GYPSUM BOARD TERMINATING IN AREAS EXPOSED TO VIEW SHALL HAVE ENDS FINISHED WITH METAL TRIM.
K. TERMINATE ALL GYPSUM BOARD EDGES ABUTTING DISSIMILAR MATERIALS AND EDGES EXPOSED TO VIEW WITH NON-EXPOSED METAL CASING BEAD AND ISOLATE BY BACKER ROD AND SEALANT FULL-LENGTH UNLESS NOTED OTHERWISE. VERIFY CONDITIONS WITH ARCH. PRIOR TO INSTALLATION.
L. PROVIDE BRACING, AS RECOMMENDED BY STUD MANUFACTURER, AT ALL CHASE WALLS, FOR FIRE/SMOKE RATING OF PARTITIONS. SEE FLOOR PLANS.
M. PROVIDE GYPSUM BOARD ON ALL SIDES OF OPENINGS FRAMED FOR DAMPERS, USE SAME NUMBER OF LAYERS AND TYPE OF GYPSUM BOARD AS FOR SIDE OF PARTITION W/ GREATER PROTECTION.
N. DIMENSIONING OF INTERIOR STUD PARTITIONS ON THE FLOOR PLANS IS TO THE FACE OF THE STUD.
O. ALL EXTERIOR WALLS CONSTRUCTED IN CONTACT WITH CONCRETE SHALL HAVE SILL SEALER UNDER SILL PLATE.
P. USE 5/8" MOISTURE RESISTANT GYP BOARD AT TOILET AND LOCKER ROOMS
Q. USE 5/8" CEMENT BACKER BOARD IN LIEU OF GYP BOARD AT SHOWER LOCATIONS

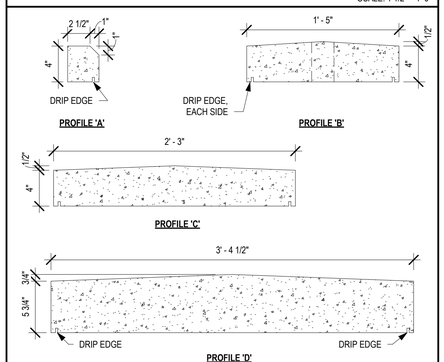
WALL TAG LEGEND



STRUCTURE TYPE		ASSEMBLY TYPE	
C	CAST-IN-PLACE CONCRETE	A	GYP 6" ABOVE CEILING
M	MASONRY WALL	D	WALL TO BOTTOM OF DECK
P	PRECAST WALL	F	FURRING WALL
S	STEEL STUDS	H#	PARTIAL HEIGHT WALL
W	WOOD STUDS	L	LEAD LINED WALL
		R1	1 HR RATED WALL
		R2	2 HR RATED WALL
		S	SOUND RATED WALL

STONE PROFILES

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



NOTE: STONE TO HAVE 1" OVERHANG WHERE DRIP EDGE IS INDICATED UNO. IN DETAILS. PROVIDE DRIP EDGE WITHIN EXPOSED OVERHANG DIMENSIONS.

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Plan Review Stamp:

Consultant:

Project:

ECOTOURISM VISITORS CENTER

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No.:	25494-1	Date:	11-02-2026
Drawn:	TS	Checked:	CRA
Project Manager:	GEP		
Project Status:	CONSTRUCTION DOCS		

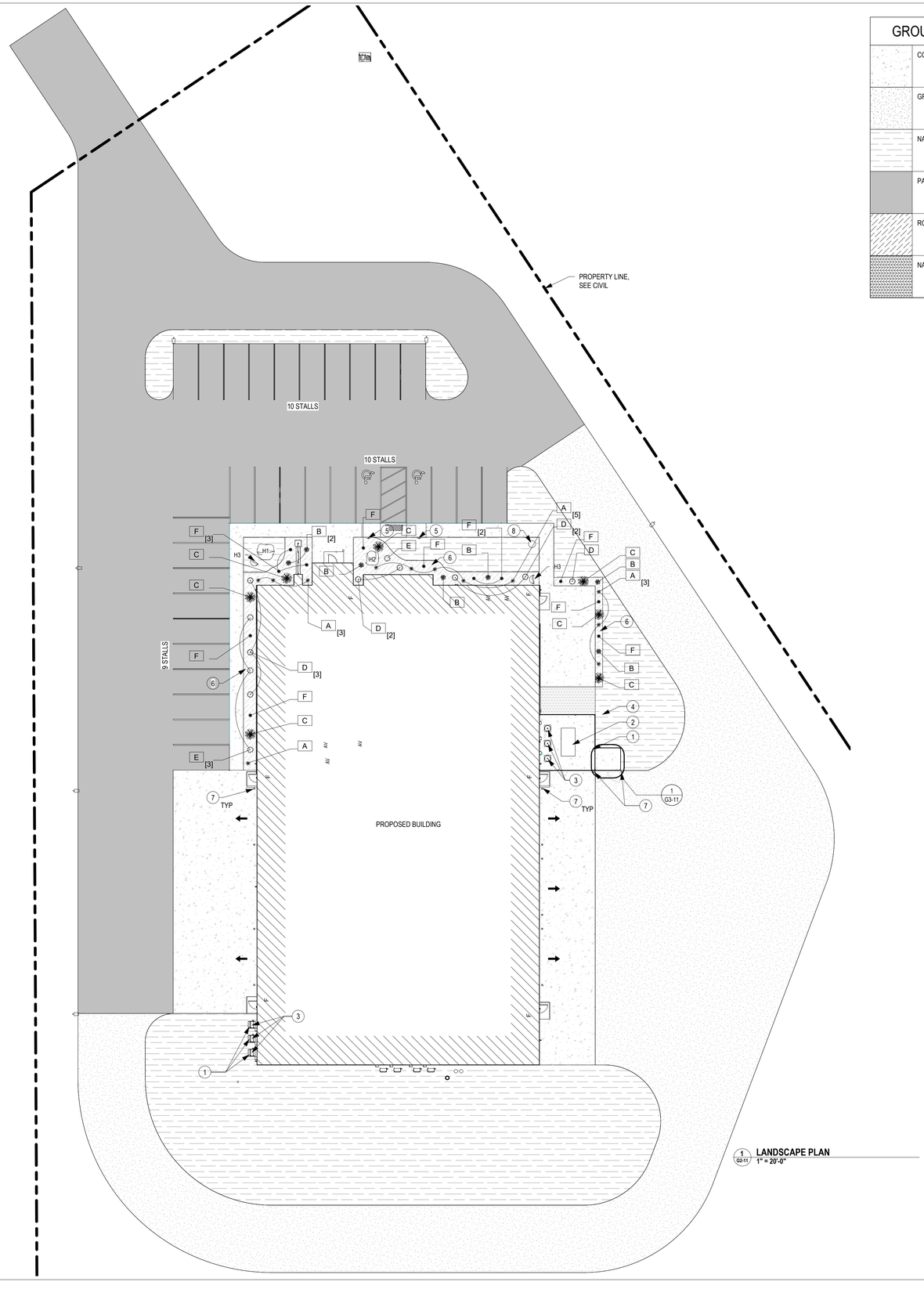
Sheet Title:

BUILDING ASSEMBLIES

Sheet No.:

G1-31

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1 G2-11 **LANDSCAPE PLAN**
1" = 20'-0"

GROUNDCOVER KEY

	CONCRETE
	GRAVEL
	NATIVE PRAIRIE MIX
	PAVEMENT
	ROCK MULCH
	NATIVE WILDFLOWER MIX

PARKING REQUIREMENTS

BASIS OF DESIGN: CITY OF **LANDER, WY**

BUILDING USE	PARKING SPACES REQUIRED
BUSINESS OR PROFESSIONAL OFFICES	ONE (1) SPACE PER 300 SQUARE FEET OF FLOOR AREA
WAREHOUSES AND STORAGE FACILITIES	TWO (2) SPACES PLUS, 1 SPACE PER EMPLOYEE ON A MAXIMUM SHIFT AND SUFFICIENT SPACE TO PARK ALL COMPANY OWNED OR LEASED VEHICLES

STALL SIZE REQUIREMENTS:	REQUIRED: 9'-0" x 18'-0"	PROVIDED: 9'-0" x 20'-0"

NUMBER OF STALLS REQUIRED:

BUILDING USE	BUILDING USE GROSS AREA	STALL FACTOR	NUMBER OF REQUIRED STALLS
BUSINESS	6,735 SF	(1) PER 300 SQ FT	22
STORAGE FACILITIES	10,480 SF	2 + (1 *3 EMPLOYEES)	5
TOTAL STALLS PROVIDED:			29
2024 IBC TABLE 1106.2: ACCESSIBLE PARKING SPACES		26-50 TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM ACCESSIBLE STALLS = 2

HARDSCAPE SCHEDULE

MARK	DESCRIPTION	QTY:
H1	42" - 48" DIA. LANDSCAPE BOULDER - BURY 1/3 OF HEIGHT (TYP.)	1
H2	30" - 36" DIA. LANDSCAPE BOULDER - BURY 1/3 OF HEIGHT (TYP.)	1
H3	18" - 24" DIA. LANDSCAPE BOULDER - BURY 1/3 OF HEIGHT (TYP.)	2

NOTES:
1. SALVAGE ANY ROCKS OF APPROPRIATE SIZE DISCOVERED DURING SITE EXCAVATION FOR OWNER CONSIDERATION.
2. FINAL BOULDER SELECTION TO BE APPROVED BY OWNER.

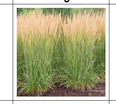
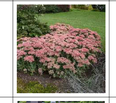
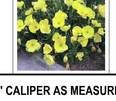
LANDSCAPE NOTES

A. ALL LANDSCAPING MATERIALS AND PLANTINGS SHALL BE PROVIDED BY THE CONTRACTOR WITH FINAL SELECTION BY OWNER.
B. LANDSCAPING CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID. THEY SHALL INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
C. LANDSCAPING CONTRACTOR TO VERIFY/MARK ALL UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
D. ROUGH GRADING/TOP SOIL MINIMUM DEPTH OF 3". PLANTING BEDS TO BE GRADES WITHIN 3" OF FINISH GRADE.
E. LANDSCAPE CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS.
F. ALL PLANTING MATERIAL SHALL COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK". MUST MEET MINIMUM SIZE INDICATED IN THE PLANTING SCHEDULE.
G. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT STOCK UNTIL ACCEPTANCE OF WORK BY ARCHITECT OR OWNER.
H. LANDSCAPE CONTRACTOR TO GUARANTEE ALL PLANT MATERIAL TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE BY ARCHITECT OR OWNER AND AGREE TO REPLACE/REMOVE AT NO COST TO OWNER ALL PLANT MATERIAL DETERMINED UNSATISFACTORY BY ARCHITECT OR OWNER AT THE TIME OF INSTALLATION AND/OR END OF GUARANTEE PERIOD.
I. CONTRACTOR SHALL BE RESPONSIBLE TO RE-SEED ANY DISTURBED AREAS DURING CONSTRUCTION WITH NATIVE PRAIRIE MIX.
J. CONTRACTOR SHALL PROTECT ALL EXISTING ROADS, CURBS/GUTTERS, TREES, LAWNS AND SITE ELEMENTS THAT ARE NOT A PART OF THE SCOPE OF WORK DURING PLANTING OPERATIONS. ANY DAMAGE TO SITE SHALL BE REPAIRED AT NO COST TO THE OWNER.
K. SEE CIVIL FOR ANTICIPATED AREA OF DISTURBANCE AND SEEDING REQUIRED.

KEYED SITE NOTES

REV	MARK	DESCRIPTION
	1	EQUIPMENT PAD, SEE ELECTRICAL
	2	GENERATOR, SEE ELECTRICAL
	3	CONDENSING UNITS, SEE MECHANICAL
	4	PROVIDE 6'-0" HIGH COMPOSITE PRIVACY FENCE AROUND MECHANICAL/ELECTRICAL EQUIPMENT, MAINTAIN A MINIMUM OF 36" CLEARANCE AROUND ALL UNITS. SEE TRASH ENCLOSURE DETAILS FOR CONSTRUCTION
	5	ACCESSIBLE PARKING STALL SIGNAGE, SEE CIVIL
	6	ROCK MULCH WITH COMMERCIAL GRADE WEED BARRIER AND BLACK METAL LANDSCAPE EDGE.
	7	PIPE BOLLARD WITH BOLLARD COVER, SEE CIVIL
	8	FIRE HYDRANT, SEE CIVIL

PLANTING SCHEDULE

REV	TYPE	Image	QTY	COMMON NAME	BOTANICAL NAME	SIZE	MAX HEIGHT	MAX SPREAD	TYPE	HARDINESS ZONE	SUN EXPOSURE
	A		12	KARL FOERSTER GRASS	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	#1	5 FT	32 IN	ORNAMENTAL GRASS	3a	PARTIAL TO FULL SUN
	B		7	UPRIGHT PRAIRIE CONEFLOWER	RATIBIDA COLUMNIFERA	#1	2 FT	24 IN	PERENNIAL	3a	FULL SUN
	C		7	BLANKET FLOWER	GAILLARDIA ARISTATA	#2	18 IN	18 IN	PERENNIAL	3a	FULL SUN
	D		8	SEDUM "AUTUMN JOY"	SEDUM "AUTUMN JOY"	#2	24 IN	18 IN	PERENNIAL	2b	PARTIAL TO FULL SUN
	E		4	LITTLE DEVIL NINEBARK	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY'	#2	4 FT	3 FT	SHRUB	2a	PARTIAL TO FULL SUN
	F		12	MISSOURI EVENING PRIMROSE	OENOTHERA MACROCARPA	#2	18 IN	18 IN	PERENNIAL	4a	FULL SUN

*** MIN 2 1/2" CALIPER AS MEASURED SIX INCHES ABOVE THE ESTABLISHED GRADE LEVEL**

TRUE PROJECT

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date 11/02/2026
STATE OF WYOMING

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Project:
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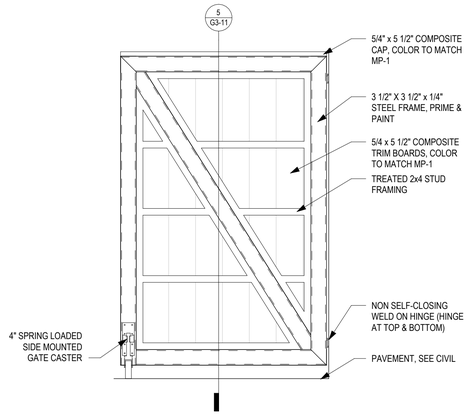
REVISION:

No.: 25494-1 Date: 11-02-2026
Drawn: MG Checked: CRA
Project Manager: GEP
Project Status: CONSTRUCTION DOCS

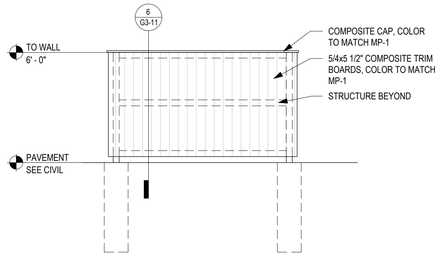
Sheet Title:
ARCH. LANDSCAPE PLAN

Sheet No.:
G2-11

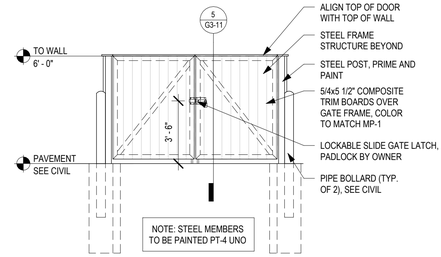
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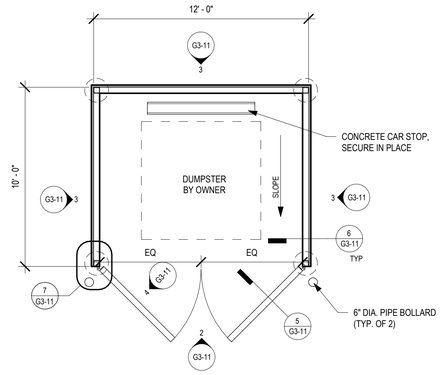
4 G3-11 TRASH ENCLOSURE GATE ELEVATION
3/4" = 1'-0"



3 G3-11 TRASH ENCLOSURE ELEVATION - SIDE (STEEL)
1/4" = 1'-0"



2 G3-11 TRASH ENCLOSURE ELEVATION - FRONT (STEEL)
1/4" = 1'-0"



1 G3-11 TRASH ENCLOSURE PLAN (STEEL)
1/4" = 1'-0"

7 03-11 TRASH ENCLOSURE HINGE DETAIL (STEEL)
1 1/2" = 1'-0"

6 03-11 TRASH ENCLOSURE SECTION (STEEL)
1/2" = 1'-0"

5 03-11 TRASH ENCLOSURE GATE SECTION
3/4" = 1'-0"

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No.	Revision	Date

REVISION:

No.:	25494-1	Date:	11-02-2026
Drawn:	TS	Checked:	CRA
Project Manager:	GEP		
Project Status:	CONSTRUCTION DOCS		

Sheet Title:
TRASH ENCLOSURE

Sheet No.:
G3-11

LEGEND		
EXISTING	ITEM	PROPOSED
	ASPHALT EDGE	
	BUILDING CANOPY	
TV TV TV TV TV	CABLE TV - UNDERGROUND	TV TV TV TV TV
	CENTERLINE	
	CONSTRUCTION LIMITS	
E(O) E(O) E(O) E(O) E(O)	ELECTRICAL - OVERHEAD	E(O) E(O) E(O) E(O) E(O)
E E E E E	ELECTRICAL - UNDERGROUND	E E E E E
	FENCE - BARBED WIRE	
	FENCE - CHAINLINK	
	FENCE - ELECTRIC	
	FENCE - PLASTIC, VINYL	
	FENCE - WOOD	
	FENCE - WOVEN WIRE	
FO FO FO FO FO	FIBER - UNDERGROUND	FO FO FO FO FO
G G G G G	GAS - UNDERGROUND	G G G G G
	GRAVEL EDGE	
	GUARDRAIL	
FM FM FM FM FM	SANITARY SEWER FORCE MAIN	FM FM FM FM FM
S S S S S	SANITARY SEWER SERVICE LINE	
S S S S S	SANITARY SEWER (LESS THAN 24")	>> >> >> >> >>
S S S S S	SANITARY SEWER (24" OR MORE)	>> >> >> >> >> >> >> >> >>
	STORM SEWER EDGEDRAIN	
ST ST ST ST ST	STORM SEWER (LESS THAN 24")	> > > > >
ST ST ST ST ST	STORM SEWER (24" OR MORE)	> > > > > > > > > > > > > >
T(O) T(O) T(O) T(O) T(O)	TELEPHONE - OVERHEAD	T(O) T(O) T(O) T(O) T(O)
T T T T T	TELEPHONE - UNDERGROUND	T T T T T
W W W W W	WATER SERVICE LINE	
W W W W W	WATER MAIN	W W W W W

LEGEND		
EXISTING	ITEM	PROPOSED
	FIRE HYDRANT	
	GATE VALVE	
	CURB STOP	
	YARD HYDRANT	
	BEND	
	TEE	
	CROSS	
	REDUCER	
	COUPLER	
	VERTICAL BEND	
W	WATER MANHOLE	W
	SPRINKLER HEAD	
W	WATER METER	W
	CATHODIC TEST STATION	TS
	TRACER WIRE ACCESS BOX	TW
S	SANITARY MANHOLE	S
FM	SANITARY FORCEMAIN MANHOLE	FM
	SANITARY MANHOLE W. VALVE	
CL	CLEANOUT	C
ST	STORM SEWER MANHOLE	ST
	CURB INLET	
	CATCH BASIN	
	POWER POLE	
	GUY WIRE	
	LIGHT POLE	
E	ELECTRICAL PEDESTAL	E
E	ELECTRICAL METER	E
J	ELECTRICAL JUNCTION (PULL BOX)	J
E	ELECTRICAL BOX	E
	ELECTRICAL OUTLET/PLUG-IN	
E	ELECTRICAL MANHOLE	E
T	TELEPHONE MANHOLE	T
	TELEPHONE PEDESTAL	
	CABLE TV PEDESTAL	
	FIBER OPTIC PEDESTAL	
G	GAS METER	G
G	GAS MANHOLE	G
	FUEL DISPENSER	
	UTILITY MARKER	
	GAS VENT PIPE	
	TREES CONIFEROUS/ DECIDUOUS	
	BUSH/SHRUB	
	SIGN	
	CONTROL POINT	
	BENCHMARK	
	PIPE CAP	
	MAIL BOX	
	PROPERTY PIN	

AC	ASPHALT CEMENT
AGGR	AGGREGATE
AHD	AHEAD
APPROX	APPROXIMATE OR APPROXIMATELY
ARV	AIR RELEASE VALVE
ASPH	ASPHALT
BIT	BITUMINOUS
BK	BACK
BM	BENCH MARK
BLDG	BUILDING
C&G	CURB & GUTTER
CI	CAST IRON
CL	CENTERLINE
CMES	CORRUGATED METAL END SECTION
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CPP	CORRUGATED PLASTIC PIPE
CONST	CONSTRUCTION
CONC	CONCRETE
CPLG	COUPLING
CS	CURB STOP
CY	CUBIC YARD
D	DEGREE OF CURVATURE
DB	DITCH BLOCK
DEFL	DEFLECTION
DG	DITCH GRADE
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC
EMB	EMBANKMENT
EQ	EQUATION
ES	END SECTION
ESMT	EASEMENT
EX	EXISTING
EXC	EXCAVATION
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
GR	GRAVEL
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORZ	HORIZONTAL
HP	HIGH POINT
HYD	HYDRANT
INST	INSTALL
INV	INVERT
JB	JUNCTION BOX
L	LENGTH
LF	LINEAR OR LINEAL FEET
LONG	LONGITUDINAL
LP	LOW POINT OR LIGHT POLE
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
PVC	POLYVINYL CHLORIDE PIPE
P & P	PLAN & PROFILE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCES	REINFORCED CONCRETE END SECTION
RCP	REINFORCED CONCRETE PIPE
RDWY	ROADWAY
RR	RAILROAD
RT	RIGHT
R/W ROW	RIGHT-OF-WAY
SALV	SALVAGE
SAN	SANITARY
SE	SUPERELEVATION
SEC	SECTION
SF	SQUARE FEET
SHLDR	SHOULDER
SSD	STOPPING SIGHT DISTANCE
SEC LINE	SECTION LINE
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
STRUCT	STRUCTURE
SURV	SURVEY
SW	SIDEWALK
SY	SQUARE YARD
T	TANGENT
TA	TOP OF ASPHALT
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TEL	TELEPHONE
TEMP	TEMPORARY
THEOR	THEORETICAL
TP	TOP OF PAVEMENT
TR	TRAFFIC
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WM	WATER MAIN
WV	WATER VALVE
XSEC	CROSS SECTION

GENERAL NOTES:
ALL WORK REQUIREMENTS SHOWN ON THESE DRAWINGS AND NOT OTHERWISE DETAILED SHALL BE ACCOMPLISHED PER PROJECT SPECIFICATIONS, 2015 WYOMING PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS WITH 2025 CITY OF LANDER SUPPLEMENTS, AND THE LATEST SPECIFICATIONS FROM THE WYOMING DEPARTMENT OF TRANSPORTATION.

CONTRACTOR WILL CONDUCT HIS WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, DEPT OF LABOR PART 1926.

1. INDIAN RESERVATION WORK - PROJECT EXTENTS ARE LOCATED WITHIN BOUNDARIES OF THE WIND RIVER INDIAN RESERVATION:
   1.1. CONTRACTORS SHALL ENSURE THAT ALL PROPOSED SUBCONTRACTORS ARE FULLY AWARE AND ACCEPTED THE TRIBAL REQUIREMENTS WHEN PROVIDING QUOTES.
   1.2. CONTRACTOR SHALL UNDERSTAND AND AGREE THAT THE CONTRACTOR, SUBCONTRACTORS, AND ALL OF THEIR EMPLOYEES, ARE RESPONSIBLE TO ADHERE TO AND ABIDE BY ALL TRIBAL LAWS, ORDINANCES, AND REGULATIONS ON WORK PERFORMED ON THE RESERVATION.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE GEOTECHNICAL REPORT PREPARED BY ADVANCED GEOTECHNICAL DATED MARCH 4, 2026; ADDENDUM 1 DATED OCTOBER 16, 2026. THE CONTRACTOR SHALL REVIEW THE REQUIREMENTS FOR TREATMENT AND PREPARATION OF ALL NATIVE, BORROW, AND IMPORTED MATERIALS WHICH SHALL ADHERE TO THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL INVESTIGATION FOR THE PROJECT, BUT WHERE CONFLICT OCCURS THE PROJECT SPECIFICATIONS DETAILED ABOVE SUPERCEDE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES AND PROTECT THEM FROM DAMAGE. THE LOCATION OF ALL AERIAL AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND SOME ITEMS MAY NOT BE INDICATED IN THE PLANS. UNDERGROUND UTILITIES, WHETHER INDICATED OR NOT, WILL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR SHALL NOT BEGIN EXCAVATION IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY FACILITY. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES DAMAGED BY OPERATION IN CONNECTION WITH EXECUTION OF THE WORK. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION EFFORTS WITH ALL LOCAL UTILITY COMPANIES PERTINENT TO PROSECUTION OF THE WORK.
4. THE INFORMATION ON THESE DRAWINGS CONCERNING THE TYPE, SIZE AND LOCATION OF UTILITIES HAS BEEN BASED UPON THE INFORMATION AVAILABLE DURING PROVIDED TOPOGRAPHIC SURVEYS. SIZE AND TYPE OF UTILITIES WAS PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS THEY ARE SCHEDULED FOR RELOCATION. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE UTILITY COMPANIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
5. THE CONTRACTOR SHALL UTILIZE THE WYOMING ONE CALL NOTIFICATION PROCESS TO PROVIDE ADVANCE NOTICE OF AT LEAST 48 HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, TO INFORM ALL WYOMING UNDERGROUND FACILITY OPERATORS OF INTENDED EXCAVATION. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES BEFORE WORK IS COMMENCED.
6. THE CONTRACTOR IS REQUIRED TO OBTAIN COVERAGE UNDER THE DEPARTMENT OF ENVIRONMENTAL QUALITY GENERAL STORM WATER CONSTRUCTION PERMIT. COST OF SWPPP SHALL BE INCIDENTAL TO THE PROJECT. CONTRACTOR SHALL MAINTAIN THE SWPPP THROUGHOUT THE PROJECT UNTIL THE SITE OBTAINS 70% VEGETATION GROWTH.
7. AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY AND AT THE EXPENSE OF THE CONTRACTOR TO A CONDITION EQUAL OR BETTER THAN EXISTING, AS APPROVED BY THE ENGINEER OR AUTHORIZED REPRESENTATIVE.
8. THE CONTRACTOR SHALL SUBMIT TO ENGINEER A PLAN FOR STORAGE, PARKING AND SERVICE AREA(S) FOR REVIEW AND APPROVAL. THE PLAN MUST BE SUBMITTED AND APPROVED ONE WEEK PRIOR TO COMMENCING WORK.
9. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL NECESSARY PERMITS AND LICENSES AND SHALL COMPLY WITH ANY AND ALL FEDERAL, STATE AND LOCAL ORDINANCES, LAWS OR REGULATIONS APPLICABLE TO PERFORM THE WORK.
10. ALL MATERIAL TO BE REMOVED FOR DISPOSAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE, AND SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL & STATE REGULATIONS. CONTRACTOR SHALL SEPARATE MATERIALS AND STOCKPILE IN ORDERLY MANNER.
11. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. ALL SAW CUTTING IS INCIDENTAL TO THE PROJECT.
13. ALL JOINT SEALANT IS INCIDENTAL TO THE PROJECT..
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ACCURATE CONSTRUCTION STAKING OF ALL WORK TO THE LINES, GRADES, AND ELEVATIONS SHOWN ON THE DRAWINGS. THE ENGINEER SHALL BE PROMPTLY NOTIFIED OF ANY DISCREPANCIES DISCOVERED DURING LAYOUT WORK. THE CONTRACTOR SHALL NOT MAKE CHANGES OR RELOCATIONS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS TESTING REQUIRED WITHIN THE SPECIFICATIONS. MATERIALS TESTING RESULTS SHALL BE DELIVERED TO THE ENGINEER AND/OR OWNER IN A TIMELY MANNER.
16. BID ITEM "CLEARING AND GRUBBING" AS LUMP SUM SHALL INCLUDE ALL TREES AND STUMPS WITHIN GRADING LIMITS OF THE PROJECT AS SHOWN ON THE PLANS AND AS INDICATED BY OWNER.

EARTHWORK
TWENTY FIVE PERCENT (25%) ADDITIONAL VOLUME IN YARDAGE IS ALLOWED FOR SHRINKAGE IN THE EARTH EMBANKMENT AS SHOWN ON THE PLANS.

PLACING TOPSOIL
PRIOR TO EXCAVATING OR FILLING, THE CONTRACTOR SHALL STRIP AND STOCKPILE THE TOPSOIL. REFER TO PROJECT GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS. FOR THE PRIMARY PROJECT SITE, THE TOPSOIL SHALL BE STRIPPED TO DEPTHS PER OF THE GEOTECHNICAL REPORT TO FULLY REMOVE TOPSOIL PER RECOMMENDATIONS AS REQUIRED FOR IMPROVEMENTS. FOR OFF-SITE UTILITY EXTENSION, THE TOPSOIL SHALL BE STRIPPED TO DEPTHS AS NECESSARY TO PROVIDE A DEPTH OF FOUR INCHES OF TOPSOIL AT COMPLETION. THE TOPSOIL SHALL BE PLACED BACK OVER THE DISTURBED AREAS TO A DEPTH OF FOUR INCHES. SURPLUS TOPSOIL SHALL BECOME PROPERTY OF THE CONTRACTOR TO OBTAIN AN APPROVED LOCATION. ALL COSTS TO PLACE THE TOPSOIL INCLUDING CONTRACTOR FURNISHED TOPSOIL SHALL BE INCIDENTAL.

GRADING OPERATIONS
WATER FOR GRADING OPERATIONS (INCLUDING EMBANKMENT CONSTRUCTION AND SUBGRADE PREPARATION) SHALL BE INCIDENTAL TO THE PROJECT AND WILL NEED TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR LOADING, HAULING, AND APPLICATION OF THE WATER.

PROCEDURES FOR DETERMINING EXCAVATION
PLAN QUANTITIES ARE USED FOR PAYMENT. THIS INCLUDES UNCLASSIFIED EXCAVATION, CLEARING AND GRUBBING, REMOVE AND STORE TOPSOIL (STRIPPING AND STOCKPILING), SURPLUS MATERIAL DISPOSAL (GRADING AND TOPSOIL), AND IMPORTED FILL QUANTITIES WHICH SHALL BE USED FOR FINAL PAYMENT.

CONTRACTOR TO PROVIDE ALL EXCAVATION, HAULING, PLACING, COMPACTION OF EMBANKMENTS, SHAPING OF SLOPES, FINISHING OF SURFACE, STOCKPILING SURPLUS MATERIAL, AND COMPLETION OF SUBGRADE, BOULEVARDS, ROADWAY, AND MAINTENANCE REGARDLESS OF THE TYPE OF MATERIAL. BORROW SHALL BE OBTAINED FROM CONTRACTORS SITE. PLAN QUANTITY SHALL BE USED FOR FINAL PAYMENT.

CERTIFICATION AND TESTING
SUBMITTALS AND CERTIFICATION DOCUMENTS SHALL BE PROVIDED TO THE ENGINEER FOR ALL MATERIALS DELIVERED TO THE SITE. APPROPRIATE SAMPLING AND TESTING IN COMPLIANCE WITH THE PROJECT MANUAL AND SPECIFICATIONS SHALL APPLY.

ADDITIONAL RANDOM DENSITIES, AGGREGATE TESTING, DEPTH MEASUREMENTS, ETC. MAY BE REQUESTED AND SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE. ANY RETESTING DUE TO FAILED INITIAL TESTS WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

STORM WATER
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THIS PROJECT.

CONSTRUCTION ACTIVITIES CONSTITUTE > 1 ACRES OF DISTURBANCE.

ACTION TAKEN/REQUIRED:

AT A MINIMUM AND REGARDLESS OF PROJECT SIZE, APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED TO CONTROL THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.

ASPHALT MATERIAL
ASPHALT CONCRETE SHALL BE WYDOT CLASS II-M. ASPHALT MATERIALS MIX MAY BE PG64-28 VIRGIN MATERIALS OR PGS8-28 WITH 15% RAP USED IN THE ASPHALT MIX.

BASE COURSE
AGGREGATES FOR BASE COURSE SHALL BE 3/4" CRUSHED ROCK AND SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS.

ESTIMATED QUANTITIES WERE BASED UPON AN ASSUMED IN PLACE DENSITY OF 1.9 TON/CY.

CONTRACTOR SHALL NOT FURNISH BASE COURSE PRIOR TO ENGINEER'S SUBGRADE APPROVAL.

SAWING EXISTING PAVEMENT
WHEN NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING CONCRETE OR ASPHALT CEMENT PAVEMENTS, THE EXISTING SURFACING SHALL BE SAWED FULL-DEPTH TO A TRUE LINE WITH A VERTICAL FACE. NO MEASUREMENT FOR PAYMENT WILL BE MADE FOR SUCH SAWING.

THE CONTRACTOR SHALL MAKE A SECOND SAW CUT JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT. NO SEPARATE PAYMENT WILL BE MADE FOR SAWING.

ASPHALT PAVEMENT REPAIR
PAVEMENT REPAIR SHALL INCLUDE SAW CUTTING, REMOVALS, HAULING, ASPHALT PAVEMENT, BINDER, TACK COAT, INSTALL TO COMPLETE AS SHOWN ON CONSTRUCTION PLANS AND DETAILS. PAVEMENT REPAIR DIMENSIONS SHALL BE AS SHOWN AND DETERMINED BY ENGINEER IN THE FIELD.

PRE-PAVING MEETING AND BASE CHECK
PRIOR TO BEGINNING PAVING OPERATION, THE CONTRACTOR SHALL SCHEDULE A TIME TO CHECK THE BASE COURSE AND SUBGRADE. THE CONTRACTORS SUPERINTENDENT, PAVING SUPERINTENDENT AND ENGINEER SHALL PARTICIPATE IN A CHECK OF THE AGGREGATE BASE TO VERIFY THAT NO SOFT SPOTS ARE PRESET. THE CONTRACTOR SHALL FURNISH HEAVY EQUIPMENT TO PROOF ROLL THE AGGREGATE BASE. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF THE SCHEDULED CHECK.

THE CONTRACTOR SHALL SCHEDULE AND COORDINATE A PRE-PAVING MEETING WITH THE PAVING CONTRACTOR'S SUPERINTENDENT, JOB FOREMAN AND ENGINEER PRIOR TO INITIATING PAVING ACTIVITIES. IT IS THE PAVING SUPERINTENDENT'S RESPONSIBILITY TO REVIEW PAVING REQUIREMENTS INCLUDING BUT NOT LIMITED TO TRUCK SCHEDULES, DELIVERY SCHEDULES, PAVER SPEED SET FOR DELIVERIES AND ACTIONS TO BE TAKEN IN THE EVENT OF PAVING INTERRUPTIONS.

WASTE DISPOSAL SITE
CONSTRUCTION AND/OR DEMOLITION DEBRIS MAY NOT BE DISPOSED OF ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL CONSTRUCTION AND DEMOLITION DEBRIS FROM THE PROJECT SITE AND DISPOSED OF PROPERLY.

ALL COSTS ASSOCIATED WITH DISPOSING OF WASTE, MAINTAINING CONTROL OF ACCESS (FENCE, GATES, AND SIGNS), AND RECLAMATION OF THE WASTE DISPOSAL SITE(S) SHALL BE INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.

TRENCH EXCAVATION AND BACKFILL
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE EXCAVATION COMPLYING WITH APPLICABLE STATE AND FEDERAL REGULATIONS. IT IS POSSIBLE THAT IN SOME AREAS SPECIAL FOUNDATIONS MAY BE REQUIRED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPE. SUCH FOUNDATIONS WILL CONSIST OF SUB-EXCAVATION TO A DEPTH AS REQUIRED BY THE ENGINEER AND PLACEMENT OF FOUNDATION MATERIAL.

DEWATERING
DEWATERING IS CONSIDERED INCIDENTAL TO THE PROJECT.

DEWATERING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND ACCORDANCE WITH THE FOLLOWING ADDITIONAL REQUIREMENTS.

THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING SELF-MONITORING ACTIVITIES INCLUDING SAMPLING, TESTING AND REPORTING AS MAY BE DETERMINED TO BE REQUIRED UNDER THE AUTHORIZATION TO DISCHARGE. PAYMENT FOR OBTAINING THE NECESSARY AUTHORIZATION TO DISCHARGE, AND FOR ALL COMPLIANCE ACTIVITIES AND OBLIGATIONS BY THE CONTRACTOR SHALL BE ABSORBED INTO THE ITEM TO WHICH IT RELATES. NO ADDITIONAL PAYMENT WILL BE MADE.

PVC WATER MAIN PIPE
PIPE FOR WATER MAINS SHALL BE PVC PRESSURE PIPE AND SHALL CONFORM TO AWWA SPECIFICATIONS C-900, DR14. THE PIPE SHALL MEET ALL OTHER REQUIREMENTS SPECIFIED IN THE STANDARD SPECIFICATIONS.

BOLTS FOR FITTING AND JOINT RESTRAINING DEVICES
BOLTS AND NUTS FOR WATER MAIN FITTING AND JOINT RESTRAINING DEVICES SHALL BE SERIES 300 STAINLESS STEEL.

WATER SHUTOFF
MAXIMUM WATER SHUTOFF SHALL BE 4 HOURS.

CONNECT TO EXISTING WATER MAIN
CONTRACTOR SHALL VERIFY EXISTING WATER MAIN DEPTH AND PIPE SIZE PRIOR TO CONNECTION. EXISTING PIPE SIZE INFORMATION MAY DIFFER THAN AS-BUILT INFORMATION PROVIDED. PAYMENT INCLUDES CONNECTING NEW WATER MAIN TO EXISTING WATER MAIN PER EACH, COMPLETE, INCLUDING ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, FITTINGS AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM.

PVC SANITARY SEWER PIPE
PIPE FOR GRAVITY SEWER MAINS AND SERVICES SHALL BE DR35 PVC AND SHALL CONFORM TO ASTM D3034 SPECIFICATIONS. PIPE FOR FORCE MAIN SEWERS SHALL BE PVC AND SHALL CONFORM TO AWWA SPECIFICATIONS C900, DR18. ALL SANITARY SEWER PIPES SHALL MEET ALL OTHER REQUIREMENTS SPECIFIED IN THE STANDARD SPECIFICATIONS.

SANITARY SEWER / STORM DRAIN CLEANOUT COVER
ALL CLEANOUTS LOCATED WITHIN PAVEMENT OR GRAVEL SURFACING AREAS SHALL INCLUDE METAL CLEANOUT COVER AND PCC COLLAR AS SHOWN IN THE DETAILS. METAL COVER AND PCC COLLAR SHALL BE CONSIDERED INCIDENTAL TO THE "CLEANOUT" BID ITEM, INCLUDING ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, FITTINGS AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM.

SANITARY SEWER SERVICE CONNECTIONS
FITTINGS REQUIRED TO CONNECT SERVICES TO WYES, END OF LINE PLUGS, OR SERVICES SHALL BE INCIDENTAL TO THE UNIT PRICE PER FOOT OF SEWER SERVICE.

EXISTING UTILITY CROSSINGS
REFER TO PLANS AND SPECIFICATIONS FOR CROSSINGS OF EXISTING STORM SEWERS, SANITARY SEWERS, WATER MAINS AND LOWERINGS. AT ALL LOCATIONS WHERE THE PROPOSED UTILITY IMPROVEMENT CROSSES OR IS ADJACENT TO EXISTING STORM SEWERS, SANITARY SEWERS, OR WATER MAINS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING THE EXISTING UTILITIES TO ENSURE THAT THEY ARE NOT DISTURBED DURING THE WORK. TEMPORARY STRUCTURAL SUPPORT FOR THE UTILITIES MAY BE REQUIRED. NO SEPARATE PAYMENT SHALL BE MADE FOR CROSSED UTILITY PROTECTION. ANY REPAIR WORK NECESSARY TO A CROSSED UTILITY RESULTING FROM THE CONTRACTOR'S ACTIVITY SHALL BE AT THE CONTRACTOR'S EXPENSE.

EXPLORATORY EXCAVATION
PLANS REFLECT BEST AVAILABLE DATA AND ANY EXPLORATORY EXCAVATION TO IDENTIFY EXISTING SERVICE LINES, MAINS, PRIVATE UTILITIES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

AS-BUILT PLANS
THE CONTRACTOR SHALL MEASURE AND RECORD ANY HORIZONTAL OR VERTICAL DEVIATIONS FROM THE CONTRACT DRAWINGS. THE CHANGES SHALL BE RECORDED IN AN ACCURATE, NEAT FASHION ON THE DRAWINGS AND FURNISHED TO THE ENGINEER UPON COMPLETION OF THE PROJECT. SPECIFICALLY, ALL CONNECTIONS, ANODES AND BURIED FITTINGS SHALL BE RECORDED FOR THE WORK. THE AS-BUILT DRAWINGS SHALL BE ON-SITE AND AVAILABLE FOR REVIEW BY THE ENGINEER UPON REQUEST.

WARRANTY PERIOD
THE WARRANTY PERIOD FOR THIS PROJECT SHALL START WHEN THE PROJECT IS COMPLETE AND SHALL NOT BE BASED ON COMPLETION OF DIFFERENT PHASES OR COMPLETION DATES OF THE PROJECT. WARRANTY PERIOD 2 YEARS.

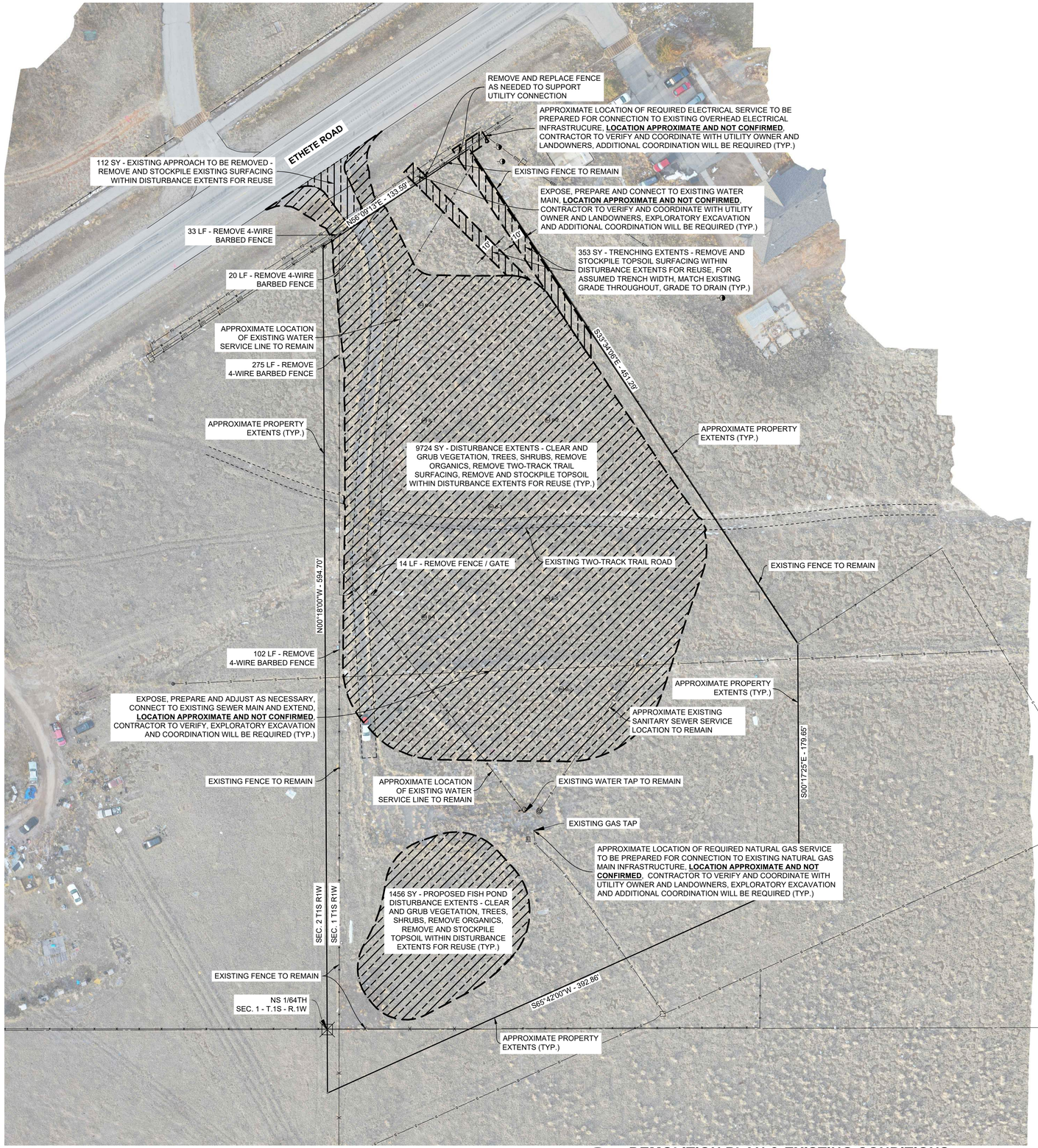
CONSTRUCTION LIMITS
CONTRACTOR SHALL CONFINE CONSTRUCTION WORK WITHIN THE CONSTRUCTION LIMITS DEFINED AS THE CONTRACTOR SHALL NOT OPERATE OR PLACE EQUIPMENT, MATERIALS, OR STOCKPILES ON PRIVATE PROPERTY WITHOUT THE PROPERTY OWNER'S WRITTEN CONSENT. THE CONTRACTOR SHALL FURNISH A COPY OF OWNER'S WRITTEN CONSENT TO THE ENGINEER AND THE OWNER.

REESTABLISH PROPERTY CORNER
A DETAILED SEARCH FOR PROPERTY CORNERS WAS NOT PERFORMED. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ANY FOUND PROPERTY CORNER THAT WILL BE DISTURBED DURING THE PROJECT AND ALL FOUND PROPERTY CORNERS SHALL BE SET BY THE CONTRACTOR (REGISTERED LAND SURVEYOR) IF THEY ARE DISTURBED.

TRAFFIC CONTROL
1. UNLESS OTHERWISE STATED IN THESE PLANS, NO WORK WILL BE ALLOWED DURING HOURS OF DARKNESS.
2. INDISCRIMINATE DRIVING AND PARKING OF VEHICLES WITHIN THE RIGHT-OF-WAY WILL NOT BE PERMITTED. ANY DAMAGE OF THE VEGETATION, SURFACING, CURB, GUTTER, DRIVEWAYS, AND EXISTING SIGNS RESULTING FROM SUCH INDISCRIMINATE USE SHALL BE REPAIRED AND/OR RESTORED BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE ENGINEER.
3. EXISTING GUIDE, ROUTE, INFORMATIONAL LOGO, REGULATORY, WARNING SIGNS AND DELINEATION SHALL BE TEMPORARILY RESET AND MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. REMOVING, RELOCATING, SALVAGING AND RESETTING OF THE ABOVE ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. NON-APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE COMPLETELY COVERED OR REMOVED DURING PERIODS OF INACTIVITY. PERIODS OF INACTIVITY SHALL BE DEFINED AS NO WORK TAKING PLACE FOR A PERIOD OF MORE THAN 48 HOURS.
5. CONSTRUCTION SIGNING MOUNTED ON PORTABLE SUPPORTS SHALL NOT BE USED FOR A DURATION OF MORE THAN 30 DAYS, UNLESS APPROVED BY THE ENGINEER. CONSTRUCTION SIGNING THAT REMAINS IN THE SAME LOCATION FOR MORE THAN 30 DAYS SHALL BE MOUNTED ON FIXED LOCATION, GROUND MOUNTED, BREAKAWAY SUPPORTS.
6. ANY DELINEATORS AND SIGNS DAMAGED OR LOST SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
7. ALL MATERIALS AND EQUIPMENT SHALL BE STORED A MINIMUM DISTANCE OF 30' FROM THE TRAVELED WAY DURING NONWORKING HOURS.
8. THE CONTRACTOR SHALL PROVIDE INSTALLATION DETAILS AT THE PRECONSTRUCTION MEETING FOR ALL BREAKAWAY SIGN SUPPORT ASSEMBLIES.
9. ALL HAUL TRUCKS SHALL BE EQUIPPED WITH A SECOND FLASHING AMBER LIGHT THAT IS VISIBLE FROM THE BACKSIDE OF THE HAUL TRUCK. THE COSTS FOR THE FLASHING AMBER LIGHTS SHALL BE INCIDENTAL TO THE VARIOUS RELATED CONTRACT BID ITEMS.
10. ALL CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN THE GENERAL DIRECTION OF TRAFFIC MOVEMENT.
11. IF THERE IS A DISCREPANCY BETWEEN THE TRAFFIC CONTROL PLANS, STANDARD PLATES, AND THE MUTCD - WHICHEVER IS MORE STRINGENT SHALL BE USED, AS DETERMINED BY THE ENGINEER.
12. TRAFFIC APPROACHING THE PROJECT FROM INTERSECTING ROADWAYS, STREETS, AND APPROACHES MUST BE ADEQUATELY ACCOMMODATED. MAJOR INTERSECTIONS OR LARGE COMMERCIAL ENTRANCES MAY REQUIRE ADDITIONAL SIGNING, FLAGGERS, AND CHANNELIZING DEVICES ON A TEMPORARY BASIS UNTIL WORK ACTIVITIES PASS THESE AREAS.
13. TRAFFIC CONTROL MISC. LUMP SUM SHALL INCLUDE ALL ADDITIONAL SIGNING, FLAGGERS, CHANNELIZING DEVICES, SUPERVISORS, RESETTING, ECT. TO PROVIDE ADEQUATE TRAFFIC CONTROL DURING PROJECT DURATION.
14. TEMPORARY TRAFFIC CONTROL DEVICES, INCLUDING SIGNS, DRUMS, CONES, TUBULAR MARKERS, BARRICADES, VERTICAL PANELS, AND DIRECTION INDICATOR BARRICADES SHALL BE RETROREFLECTORIZED WITH SHEETING APPLIED TO A SATISFACTORY BACKING. FOR ALL TEMPORARY TRAFFIC CONTROL WARNING SIGNS, THE REFLECTIVE SHEETING SHALL MEET OR EXCEED THE STANDARDS OF TYPE VII, TYPE VIII, TYPE IX, OR TYPE XI AS DEFINED BY AASHTO M 268 (ASTM D4956). FOR ALL OTHER TEMPORARY TRAFFIC CONTROL SIGNS, THE REFLECTIVE SHEETING SHALL MEET OR EXCEED THE STANDARDS OF TYPE IV, TYPE V, TYPE VII, TYPE VIII, TYPE IX, OR TYPE XI AS DEFINED BY AASHTO M 268 (ASTM D4956). FOR BARRICADES, VERTICAL PANELS, AND DIRECTION INDICATOR BARRICADES; THE REFLECTIVE SHEETING SHALL MEET OR EXCEED THE STANDARDS OF TYPE III AS DEFINED BY AASHTO M 268 (ASTM D4956). ROUND SURFACED TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO; DRUMS, CONES, AND TUBULAR MARKERS SHALL BE REFLECTORIZED WITH REFLECTORIZED SHEETING MEETING OR EXCEEDING THE STANDARDS OF TYPE IV AS DEFINED BY AASHTO M 268 (ASTM D4956). ALL ORANGE COLORED MATERIAL SHALL BE FLUORESCENT.

1 **NOTES & LEGEND**
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1 **DEMOLITION PLAN & EXISTING CONDITIONS**

1"=40'

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING COMPONENTS PRIOR TO COMPLETING PROPOSED CONSTRUCTION.
2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK.
3. ALL PERMANENT SURFACING, FACILITIES, OR ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REPLACED ARE TO REMAIN IN PLACE AND BE PROTECTED FOR THE ENTIRETY OF THE PROJECT. TAKE CARE AS TO CAUSE NO DAMAGE WITH WORK AROUND EXISTING FACILITIES TO REMAIN IN PLACE.
4. REMOVE AND RELOCATE ANY LOOSE MATERIALS, DEBRIS, REFUSE, CONTAINERS, EQUIPMENT, APPLIANCES, VEHICLES, TRAILERS, AND STORAGE CONTAINERS WITHIN DISTURBANCE EXTENTS. COORDINATE WITH OWNER FOR FINAL DESIRED LOCATION.
5. ANY MATERIALS THAT ARE SALVAGEABLE SHALL BE RETURNED TO OWNER AFTER CONFIRMATION OF DESIRED ITEMS AND FINAL DESIRED LOCATION.
6. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RECLAIMED TO A CONDITION THAT IS EQUAL OR BETTER THAN THE ORIGINAL, EXCEPT IN AREAS SPECIFICALLY NOTED ON CIVIL PLANS TO RECEIVE HARD SURFACING. ANY DISTURBANCE OUTSIDE OF THE PLAN EXTENTS WILL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. SIGNAGE, DELINEATOR, AND FENCING NOTE:
   - 7.1. COORDINATE WITH OWNER DURING CONSTRUCTION EFFORT TO AVOID IMPACT TO TRAFFIC CONTROL AND LAND USE WITH TEMPORARY OR PERMANENT REMOVAL.
   - 7.2. EXPOSE, PROTECT AND TEMPORARILY RELOCATE EXISTING SIGNAGE, DELINEATORS, FENCING, POSTS, RAILS, AND COMPONENTS TO THE FENCE POST NEAREST TO SITE EFFORTS FOR REINSTALLATION.
   - 7.3. FENCING STEEL T-POSTS OR CHAINLINK LINE/END/BRACE POSTS TO BE REPLACED AT MAXIMUM SPACING OF 10' AS REQUIRED TO MAINTAIN VERTICAL INTEGRITY OF THE FENCE.
   - 7.4. SHOULD EXISTING FENCE MATERIALS NOT BE ADEQUATE FOR REINSTALLATION THE SHEET QUANTITIES REPRESENT MAXIMUM BORNE BY PROJECT BASED ON CONSTRUCTION PRACTICES, ANY ADDITIONAL REMOVAL AND INSTALLATION IS INCIDENTAL TO THE CONTRACTOR MEANS AND METHODS.
8. ALL QUANTITIES, LOCATIONS, AND LIMITS OF EXISTING AND PROPOSED COMPONENTS SHOWN SHALL BE CONSIDERED APPROXIMATE FOR BIDDING PURPOSES.
9. PROJECT EXTENTS ARE LOCATED WITHIN BOUNDARIES OF THE WIND RIVER INDIAN RESERVATION:
   - 9.1. CONTRACTOR SHALL ENSURE THAT ALL PROPOSED SUBCONTRACTORS ARE FULLY AWARE AND ACCEPTED THE TRIBAL REQUIREMENTS WHEN PROVIDING QUOTES.
   - 9.2. CONTRACTOR SHALL UNDERSTAND AND AGREE THAT THE CONTRACTOR, SUBCONTRACTORS, AND ALL OF THEIR EMPLOYEES, ARE RESPONSIBLE TO ADHERE TO AND ABIDE BY ALL TRIBAL LAWS, ORDINANCES, AND REGULATIONS ON WORK PERFORMED ON THE RESERVATION.

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SCALE FEET

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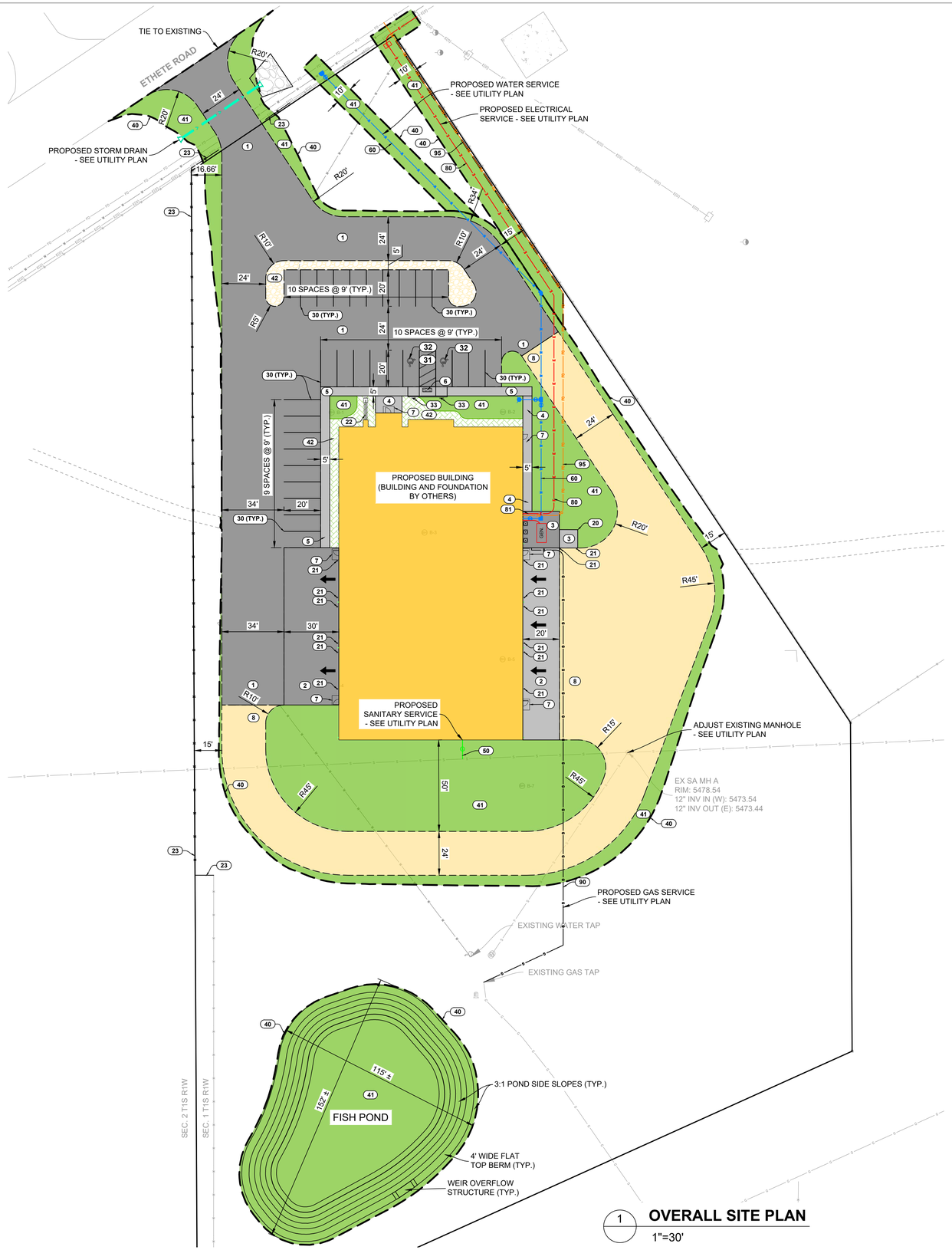
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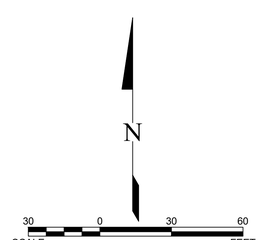
Sheet Title:
DEMOLITION PLAN & EXISTING CONDITIONS

Sheet No.:
C5.01

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1 **OVERALL SITE PLAN**
1"=30'



1. 4" ASPHALTIC CONCRETE PAVEMENT / PATCH (TYP.)
2. 5" UNREINFORCED PCC PAVEMENT / PATCH (TYP.)
3. 6" UNREINFORCED PCC TRASH/MECHANICAL PAD ENCLOSURE PAVEMENT (TYP.)
4. 4" PCC SIDEWALK (TYP.)
5. 4" PCC SIDEWALK WITH THICKENED EDGE (TYP.)
6. ADA RAMP W. DETECTABLE WARNING PANELS (TYP.)
7. STRUCTURAL STOOP AT ENTRY TO BUILDING (REFER TO STRUCTURAL PLAN)
8. 12" AGGREGATE BASE COURSE (TYP.)
20. TRASH ENCLOSURE (TYP., REFER TO ARCHITECTURAL PLAN FOR ENCLOSURE)
21. PROTECTION BOLLARD (TYP.)
22. PROJECTING DECORATIVE WIND SCREEN (REFER TO ARCHITECTURAL & STRUCTURAL PLAN)
23. 4-WIRE BARBED WIRE FENCE (TYP.)
30. 4" WIDE SOLID WHITE PARKING STALL PAVEMENT MARKING (TYP.)
31. 4" WIDE SOLID WHITE NO ACCESS PAVEMENT MARKING @ 24" SPACING WITH OUTSIDE BORDER FOR ADA ACCESS (TYP.)
32. SOLID WHITE ADA SYMBOL PAVEMENT MARKING (TYP.)
33. R7-8 H/C SIGN OR R7-8a VAN ACCESSIBLE H/C SIGN ON SINGLE POLE (TYP.)
40. APPROXIMATE GRADING BUFFER (TYP., SEE GRADING PLAN)
41. AREA TO BE FINISH GRADED, PLACE STORED TOPSOIL (4" MIN. DEPTH) AND VEGETATION SEED AND MULCH VEGETATION MIX (TYP., SEE LANDSCAPING PLAN)
42. AREA TO BE FINISH GRADED, PLACE LANDSCAPE SURFACING (TYP., SEE LANDSCAPING PLAN)
50. SANITARY SEWER SERVICE (TYP., SEE UTILITY PLAN, REFER TO MECHANICAL PLAN)
60. DOMESTIC WATER SERVICE (TYP., SEE UTILITY PLAN, REFER TO MECHANICAL PLAN)
80. PRIMARY ELECTRICAL SERVICE EXTENSION TO SITE (TYP, COORDINATE WITH UTILITY OWNER, SEE UTILITY PLAN, REFER TO ELECTRICAL PLAN)
81. SECONDARY ELECTRICAL SERVICE TO BUILDING (TYP, COORDINATE WITH UTILITY OWNER, SEE UTILITY PLAN, REFER TO ELECTRICAL PLAN)
90. NATURAL GAS SERVICE TO BUILDING WITH METER REGULATOR AND COMPONENTS PER UTILITY OWNER (TYP. CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY OWNER AND LANDOWNER, SEE UTILITY PLAN, REFER TO MECHANICAL PLAN)
95. PRIMARY COMMUNICATION SERVICE EXTENSION TO BUILDING (TYP. CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY OWNER AND LANDOWNER, SEE UTILITY PLAN, REFER TO ELECTRICAL PLAN)

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING COMPONENTS PRIOR TO COMPLETING PROPOSED CONSTRUCTION.
2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK.
3. ALL PERMANENT SURFACING, FACILITIES, OR ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REPLACED ARE TO REMAIN IN PLACE AND BE PROTECTED FOR THE ENTIRETY OF THE PROJECT. TAKE CARE AS TO CAUSE NO DAMAGE WITH WORK AROUND EXISTING FACILITIES TO REMAIN IN PLACE.
4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RECLAIMED TO A CONDITION THAT IS EQUAL OR BETTER THAN THE ORIGINAL, EXCEPT IN AREAS SPECIFICALLY NOTED ON CIVIL PLANS TO RECEIVE HARD SURFACING. ANY DISTURBANCE OUTSIDE OF THE PLAN EXTENTS WILL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL FIELD VERIFY THAT POSITIVE DRAINAGE IS BEING ACHIEVED BASED ON PROPOSED GRADES. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POSITIVE DRAINAGE IS NOT BEING ACHIEVED, PRIOR TO PLACING SURFACING.
6. CONTRACTOR SHALL FIELD VERIFY BUILDING PLUMBING TERMINATION LOCATIONS ADJACENT TO BUILDING PRIOR TO COMPLETING PROPOSED CONSTRUCTION AS THEY ARE APPROXIMATE, COORDINATION WILL BE REQUIRED.
7. VARIOUS APPURTENANCES AND FITTINGS NOT DETAILED IN DESIGN PLANS ARE INCIDENTAL TO THE INSTALLATION FOR THE VARIOUS MAIN LINE AND SERVICES OF EACH UNDERGROUND UTILITY.
8. ALL SIGNAGE AND STRIPING FOR PUBLIC AND/OR PRIVATE ROADWAY, PARKING LOTS, OR WALKWAYS SHALL CONFORM TO THE MOST RECENT VERSION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
9. ALL WEATHER PERMANENT MARKINGS ARE SUBJECT TO MATERIAL CHANGES DUE TO SEASON AND/OR WEATHER. TEMPORARY MARKING AND MATERIALS MAY BE REQUIRED. SPECIFIED FINAL PAVEMENT MARKINGS SHALL BE PERMANENTLY INSTALLED WHEN SEASON/WEATHER ALLOW.
10. EACH INSTALL SIGN QUANTITY ACCOUNTS FOR A SINGLE PCC ANCHOR, POST, AND ENTIRETY OF SIGNAGE DESCRIBED FOR THAT POST PER PLAN. SOME POSTS WILL HAVE MULTIPLE SIGNS, REPRESENTED BY A SINGLE SIGN INSTALLATION QUANTITY. REFER TO PLAN.
11. ALL QUANTITIES, LOCATIONS, AND LIMITS OF EXISTING AND PROPOSED COMPONENTS SHOWN SHALL BE CONSIDERED APPROXIMATE FOR BIDDING PURPOSES.
12. CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE [RE-MANUFACTURED OR CUSTOM COMPONENTS DETAILED IN THIS PLAN INCLUDING ALL MATERIALS, EQUIPMENT, LABOR, TOOLS, INCIDENTALS TO COMPLETE THIS ITEM. CONTRACTOR TO VERIFY INSTALLATION WITH MANUFACTURER SPECIFICATIONS AND APPLICABLE CODES.
13. PROJECT EXTENTS ARE LOCATED WITHIN BOUNDARIES OF THE WIND RIVER INDIAN RESERVATION:
    - 13.1. CONTRACTOR SHALL ENSURE THAT ALL PROPOSED SUBCONTRACTORS ARE FULLY AWARE AND ACCEPTED THE TRIBAL REQUIREMENTS WHEN PROVIDING QUOTES.
    - 13.2. CONTRACTOR SHALL UNDERSTAND AND AGREE THAT THE CONTRACTOR, SUBCONTRACTOR, AND ALL OF THEIR EMPLOYEES, ARE RESPONSIBLE TO ADHERE TO AND ABIDE BY ALL TRIBAL LAWS, ORDINANCES, AND REGULATIONS ON WORK PERFORMED ON THE RESERVATION.
14. TELECOMMUNICATIONS LOCATION IS FOR PLANNING PURPOSES, THE OWNER WILL COORDINATE SERVICE WITH THE PROVIDER. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR INSTALLING ANY CONDUIT OR FIBER.

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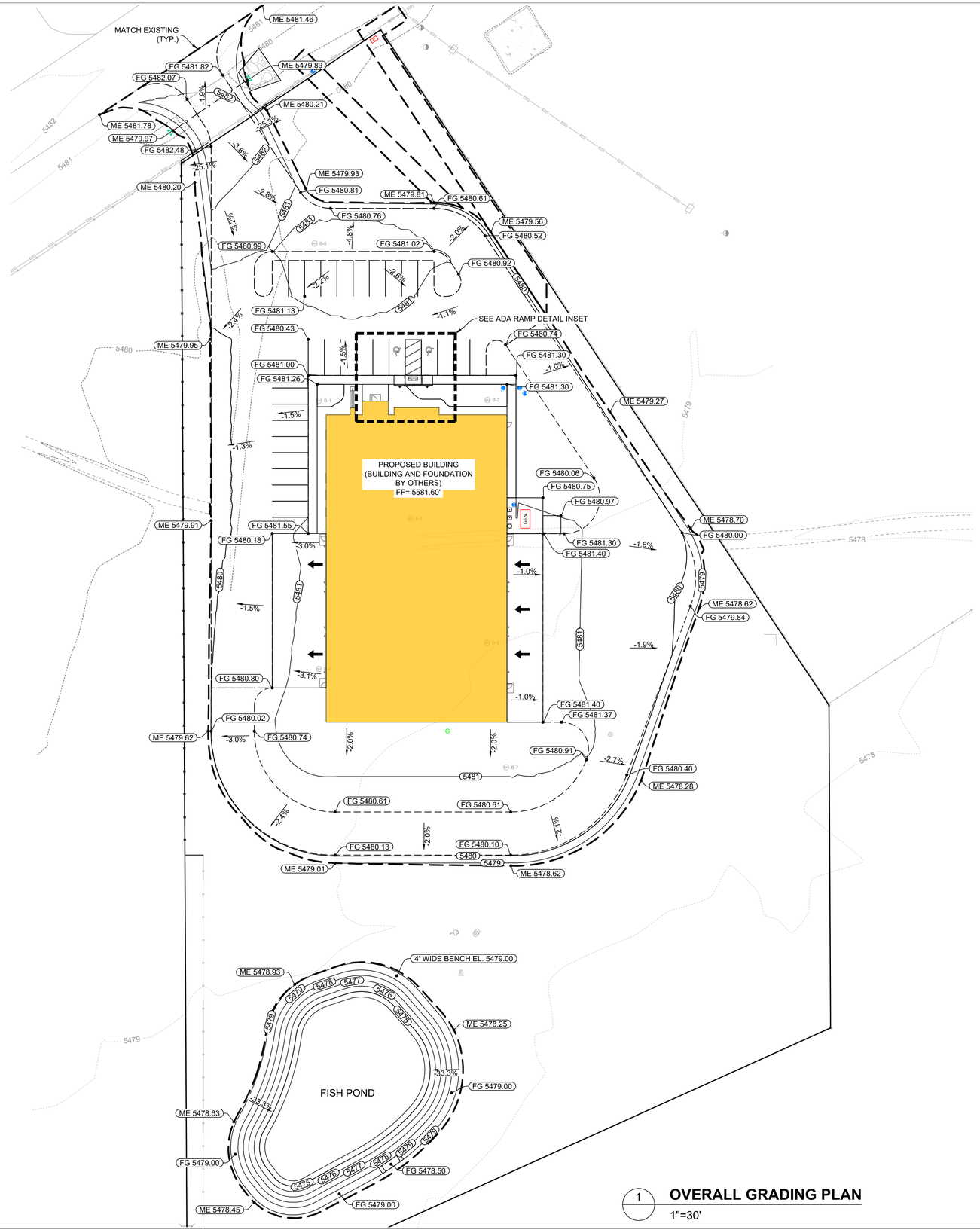
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OVERALL SITE PLAN

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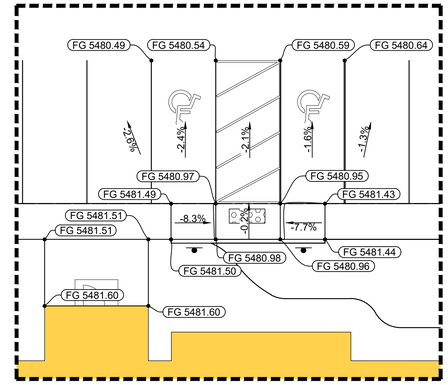
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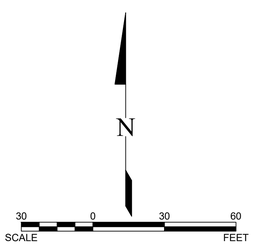
1 **OVERALL GRADING PLAN**
1"=30'

NOTES:

1. PLAN CONTOURS AND ELEVATION DATA
   - 1.1. EXISTING GRADE REPRESENTED IN PLAN BY EXISTING CONTOURS. DEPICTED SURFACE IS **UNADJUSTED.**
   - 1.2. FINISHED GRADE REPRESENTED IN PLAN BY PROPOSED CONTOURS. DEPICTED SURFACE IS **UNADJUSTED** FOR ANY IMPROVEMENTS.
   - 1.3. PLAN REPRESENTED SURFACES VARY FROM THOSE USED FOR EARTHWORK QUANTITIES ESTIMATED AND PRESENTED THIS SHEET. EARTHWORK QUANTITIES UTILIZE **ADJUSTED** SURFACES, AS DESCRIBED.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING COMPONENTS PRIOR TO COMPLETING PROPOSED CONSTRUCTION.
3. ALL PERMANENT SURFACING, FACILITIES, OR ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REPLACED ARE TO REMAIN IN PLACE AND BE PROTECTED FOR THE ENTIRETY OF THE PROJECT. TAKE CARE AS TO CAUSE NO DAMAGE WITH WORK AROUND EXISTING FACILITIES TO REMAIN IN PLACE.
4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RECLAIMED TO A CONDITION THAT IS EQUAL OR BETTER THAN THE ORIGINAL, EXCEPT IN AREAS SPECIFICALLY NOTED ON CIVIL PLANS TO RECEIVE HARD SURFACING. ANY DISTURBANCE OUTSIDE OF THE PLAN EXTENTS WILL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL FIELD VERIFY THAT POSITIVE DRAINAGE IS BEING ACHIEVED BASED ON PROPOSED DESIGN. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POSITIVE DRAINAGE IS NOT BEING ACHIEVED, PRIOR TO PLACING SURFACING.
6. ALL QUANTITIES, LOCATIONS, AND LIMITS OF EXISTING AND PROPOSED COMPONENTS SHOWN SHALL BE CONSIDERED APPROXIMATE FOR BIDDING PURPOSES.
7. CONTRACTOR SHALL STOP WORK AND CONSULT WITH ENGINEER TO MAKE ANY CHANGES TO THE PROPOSED LAYOUT AS NECESSARY IN THE EVENT EXISTING UTILITIES OR A SUBSURFACE TREATMENT SYSTEM NOT PREVIOUSLY LOCATED ARE ENCOUNTERED.



ADA RAMP DETAILS
1" = 10'



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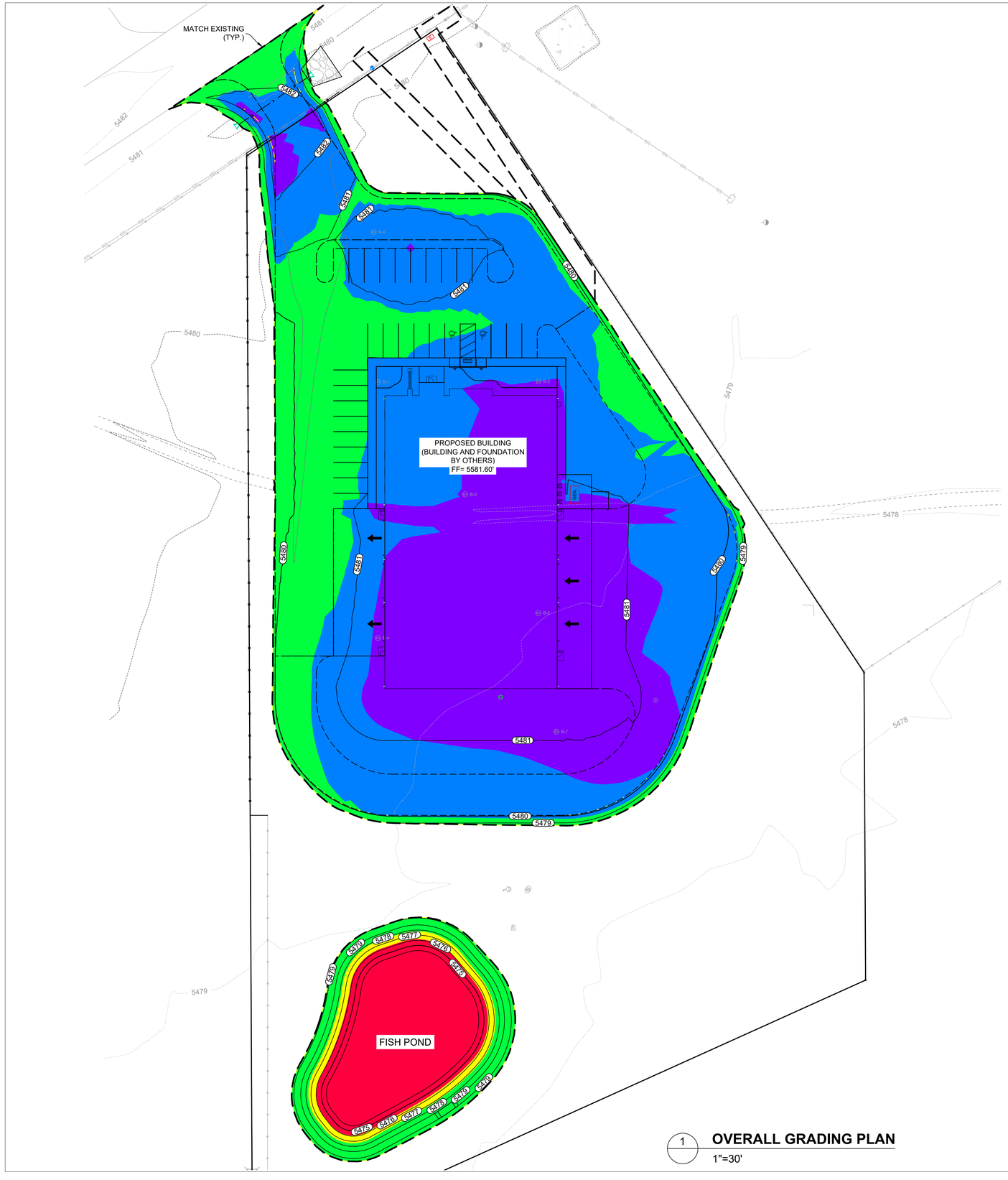
Project:
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No.	Description	Date
	REVISION:	

No.:	2524-10500	Date:	11/02/2026
Drawn:	CAL	Checked:	AJH
Project Manager:	MR		
Project Status:	CONSTRUCTION DOCUMENTS		
Sheet Title:	OVERALL GRADING PLAN		
Sheet No.:	C7.01		

Oct 29, 2026 - 4:40pm - K:\Projects\ProfServices\BruntonArchitects\2524-10500_SageFuntBuildings\CAD\Design\Plans\2524-10500_WRDF_EcoTourism_GradingPlan.dwg (C7.01 OVERALL GRADING PLAN)



1 **OVERALL GRADING PLAN**
1"=30'

SURFACE ELEVATION DATA			
NUMBER	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	-4.00	-2.50	
2	-2.50	-1.00	
3	-1.00	1.00	
4	1.00	2.00	
5	2.00	3.00	

SURFACE ELEVATION DATA (CUT & FILL) NOTES:
1. BASE SURFACE IS TOP OF EXISTING GRADE, **UNADJUSTED** FOR ANY TOPSOIL CONSIDERATIONS.
2. COMPARED SURFACE IS TOP OF FINISHED GRADE, **UNADJUSTED** FOR ANY PROPOSED TOPSOIL, SURFACING, OR IMPROVEMENTS.
3. PLAN REPRESENTED SURFACES VARY FROM THOSE USED FOR EARTHWORK QUANTITIES ESTIMATED AND PRESENTED THIS SHEET

NOTES:
1. PLAN CONTOURS AND ELEVATION DATA
   - 1.1. EXISTING GRADE REPRESENTED IN PLAN BY EXISTING CONTOURS. DEPICTED SURFACE IS **UNADJUSTED**.
   - 1.2. FINISHED GRADE REPRESENTED IN PLAN BY PROPOSED CONTOURS. DEPICTED SURFACE IS **UNADJUSTED** FOR ANY IMPROVEMENTS.
   - 1.3. PLAN REPRESENTED SURFACES VARY FROM THOSE USED FOR EARTHWORK QUANTITIES ESTIMATED AND PRESENTED THIS SHEET. EARTHWORK QUANTITIES UTILIZE **ADJUSTED** SURFACES, AS DESCRIBED.
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5. CONTRACTOR SHALL FIELD VERIFY THAT POSITIVE DRAINAGE IS BEING ACHIEVED BASED ON PROPOSED DESIGN. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF POSITIVE DRAINAGE IS NOT BEING ACHIEVED, PRIOR TO PLACING SURFACING.
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7. CONTRACTOR SHALL STOP WORK AND CONSULT WITH ENGINEER TO MAKE ANY CHANGES TO THE PROPOSED LAYOUT AS NECESSARY IN THE EVENT EXISTING UTILITIES OR A SUBSURFACE TREATMENT SYSTEM NOT PREVIOUSLY LOCATED ARE ENCOUNTERED.

CUMULATIVE EARTHWORK QUANTITIES:

- UNCLASSIFIED EXCAVATION AND EMBANKMENT - QUANTITIES UTILIZE **ADJUSTED** SURFACES AS DESCRIBED:
  (1.25 GRADING GENERAL FILL FACTOR, ASSUMED 4" TOPSOIL/TAILINGS STORAGE DEPTH AND 4" PLACEMENT DEPTHS & 1.15 TOPSOIL FILL FACTOR WHERE APPLICABLE, SURFACING REMOVAL, ADDITIONAL REMOVALS FOR INSTALLATION OF TYPICAL SURFACING SECTION, **DOES NOT** CONSIDER OVEREXCAVATION FOR SURFACING SECTIONS TO BE FIELD VERIFIED OR BUILDING FOUNDATION INSTALLATION PER GEOTECHNICAL REPORT BY ADVANCED GEOTECHNICAL DATED MARCH 4, 2026; ADDENDUM 1 DATED OCTOBER 16, 2026, AND **DOES NOT** CONSIDER UNDERGROUND UTILITY COMPONENT)
  - •• CUMULATIVE
  - ••• 1726 CY CUT +/-
  - ••• 1905 CY FILL +/-
  - ••• 179 CY NET FILL +/-

UNCLASSIFIED EXCAVATION AND EMBANKMENT	1905 CY
IMPORT BORROW (GRADING)	179 CY
REMOVE AND STORE TOPSOIL (4" DEPTH)	1,269 CY
PLACE TOPSOIL (4" DEPTH & 1.15 FF)	490 CY
SURPLUS MATERIAL DISPOSAL (TOPSOIL)	779 CY

SOME QUANTITY AREAS OVERLAP BUT QUANTITIES REPRESENT **CUMULATIVE PROJECT TOTALS, QUANTITIES SHOWN SHALL BE CONSIDERED APPROXIMATE FOR BIDDING PURPOSES ONLY*

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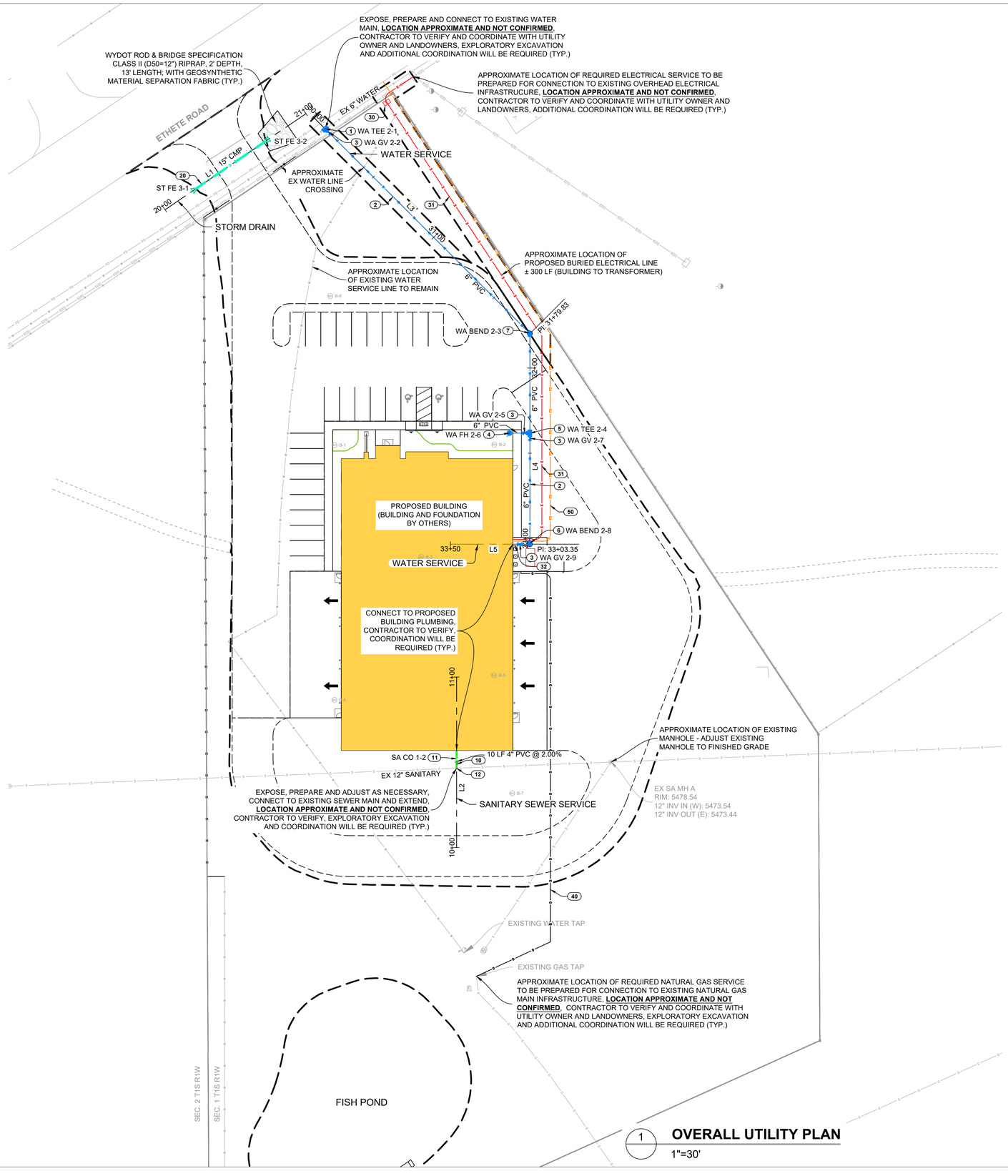
REVISION:

No.: 2524-10500 Date: 11/02/2026
Drawn: CAL Checked: AJH
Project Manager: MR
Project Status: CONSTRUCTION DOCUMENTS

Sheet Title:
OVERALL GRADING PLAN

Sheet No.:
C7.02

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1 **OVERALL UTILITY PLAN**
1"=30'

1. CONNECT TO EXISTING WITH TAPPING TEE - CONTRACTOR TO VERIFY
2. 6" DOMESTIC WATER SERVICE (TYP., REFER TO MECHANICAL PLAN)
3. GATE VALVE (TYP.)
4. HYDRANT ASSEMBLY (TYP.)
5. 6" TEE (TYP.)
6. 6" 90° BEND (TYP.)
7. 6" 45° BEND (TYP.)
10. 4" SANITARY SEWER SERVICE (TYP., REFER TO MECHANICAL PLAN)
11. 4" SANITARY SEWER CLEANOUT
12. CONNECT TO EXISTING MAIN WITH WYE - CONTRACTOR TO VERIFY
20. STORM DRAIN UTILITY (TYP.)
30. ELECTRICAL TRANSFORMER, BASE, PAD, CT CABINET, SWITCHBOARD, FULL SWEEP CONDUITS, PULL BOXES, FITTINGS, WIRING, COMPONENTS, METERING, CONNECTION AND ADJUSTMENT TO GRADE (TYP., CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY OWNER, REFER TO ELECTRICAL PLAN)
31. SCH 40 ELECTRICAL CONDUIT FOR PRIMARY SOURCE EXTENSION TO SITE WITH FULL SWEEP CONDUITS, EXISTING CONNECTION, PULL BOXES, FITTINGS, WIRING, COMPONENTS, TRANSFORMER, AND METERING (TRENCHED MIN. 52" DEPTH, TYP, COORDINATE WITH UTILITY OWNER, REFER TO ELECTRICAL PLAN)
32. SCH 40 ELECTRICAL CONDUIT FOR SECONDARY SERVICE TO BUILDING WITH FULL SWEEP CONDUITS, PULL BOXES, FITTINGS, WIRING, COMPONENTS, CONNECTION, AND METERING (TRENCHED MIN. 36" DEPTH, TYP., COORDINATE WITH UTILITY OWNER, REFER TO ELECTRICAL PLAN)
40. NATURAL GAS SERVICE EXTENSION TO BUILDING WITH METER AND REGULATOR BY UTILITY OWNER (TYP., CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY OWNER AND LANDOWNER, REFER TO MECHANICAL PLAN)
50. PRIMARY COMMUNICATION SERVICE TO BUILDING WITH FULL SWEEP CONDUITS, EXISTING CONNECTION, PULL BOXES, FITTINGS, WIRING, COMPONENTS, AND METERING (TYP., CONTRACTOR TO VERIFY AND COORDINATE WITH UTILITY OWNER, REFER TO ELECTRICAL PLAN)

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING COMPONENTS PRIOR TO COMPLETING PROPOSED CONSTRUCTION.
2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK.
3. ALL PERMANENT SURFACING, FACILITIES, OR ITEMS NOT SPECIFICALLY IDENTIFIED TO BE REPLACED ARE TO REMAIN IN PLACE AND BE PROTECTED FOR THE ENTIRETY OF THE PROJECT. TAKE CARE AS TO CAUSE NO DAMAGE WITH WORK AROUND EXISTING FACILITIES TO REMAIN IN PLACE.
4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RECLAIMED TO A CONDITION THAT IS EQUAL OR BETTER THAN THE ORIGINAL, EXCEPT IN AREAS SPECIFICALLY NOTED ON CIVIL PLANS TO RECEIVE HARD SURFACING. ANY DISTURBANCE OUTSIDE OF THE PLAN EXTENTS WILL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF PROPOSED DESIGN OR MINIMUM COVER IS NOT BEING ACHIEVED, AND APPROVE ADJUSTMENTS TO DESIGN WITH ENGINEER PRIOR TO BACKFILLING.
6. CONTRACTOR SHALL FIELD VERIFY BUILDING PLUMBING TERMINATION LOCATIONS ADJACENT TO BUILDING PRIOR TO COMPLETING PROPOSED CONSTRUCTION AS THEY ARE APPROXIMATE, COORDINATION WILL BE REQUIRED.
7. VARIOUS APPURTENANCES AND FITTINGS NOT DETAILED IN DESIGN PLANS ARE INCIDENTAL TO THE INSTALLATION FOR THE VARIOUS MAIN LINE AND SERVICES OF EACH UNDERGROUND UTILITY.
8. ALL QUANTITIES, LOCATIONS, AND LIMITS OF EXISTING AND PROPOSED COMPONENTS SHOWN SHALL BE CONSIDERED APPROXIMATE FOR BIDDING PURPOSES.
9. CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE PRE-MANUFACTURED OR CUSTOM COMPONENTS DETAILED IN THIS PLAN INCLUDING ALL MATERIALS, EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS TO COMPLETE THIS ITEM.CONTRACTOR TO VERIFY INSTALLATION WITH MANUFACTURER SPECIFICATIONS AND APPLICABLE CODES.
10. INDIAN RESERVATION WORK - PROJECT EXTENTS ARE LOCATED WITHIN BOUNDARIES OF THE WIND RIVER INDIAN RESERVATION:
    - 10.1. CONTRACTOR SHALL ENSURE THAT ALL PROPOSED SUBCONTRACTORS ARE FULLY AWARE AND ACCEPTED THE TRIBAL REQUIREMENTS WHEN PROVIDING QUOTES.
    - 10.2. CONTRACTOR SHALL UNDERSTAND AND AGREE THAT THE CONTRACTOR, SUBCONTRACTORS, AND ALL OF THEIR EMPLOYEES, ARE RESPONSIBLE TO ADHERE TO AND ABIDE BY ALL TRIBAL LAWS, ORDINANCES, AND REGULATIONS ON WORK PERFORMED ON THE RESERVATION.
11. CONTRACTOR SHALL STOP WORK AND CONSULT WITH ENGINEER TO MAKE ANY CHANGES TO THE PROPOSED LAYOUT AS NECESSARY IN THE EVENT EXISTING UTILITIES OR A SUBSURFACE TREATMENT SYSTEM NOT PREVIOUSLY LOCATED ARE ENCOUNTERED.
12. TELECOMMUNICATIONS LOCATION IS FOR PLANNING PURPOSES, THE OWNER WILL COORDINATE SERVICE WITH THE PROVIDER. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR INSTALLING ANY CONDUIT OR FIBER.

DESIGN ESTIMATES FOR BIDDING:
1. INFORMATION PROVIDED IS BASED ON CURRENT ASSUMPTIONS AND AVAILABLE INFORMATION. UTILITY SIZING, ALIGNMENT, STRUCTURES, PIPING, APPURTENANCES, CONNECTIONS, AND OVERALL APPROACH **WILL VARY**. ALL QUANTITIES, LOCATIONS, AND LIMITS OF EXISTING AND PROPOSED COMPONENTS SHOWN SHALL BE CONSIDERED APPROXIMATE FOR BIDDING PURPOSES.
2. APPROXIMATE TRENCHING DEPTHS FOR SURFACE STORM DRAIN SYSTEMS, STRUCTURES, AND VARIOUS STORM DRAIN ROUTING RANGES FROM 2' TO 4' BELOW CURRENT FINISHED GRADE AND/OR EXISTING GRADE OFF-SITE BASED ON CURRENT ASSUMPTIONS AND AVAILABLE INFORMATION.
3. APPROXIMATE TRENCHING DEPTHS FOR WATER DISTRIBUTION SYSTEMS RANGES FROM 6' TO 7' BELOW CURRENT FINISHED GRADE AND/OR EXISTING GRADE OFF-SITE BASED ON CURRENT ASSUMPTIONS AND AVAILABLE INFORMATION.
4. APPROXIMATE TRENCHING DEPTHS FOR SANITARY SEWER COLLECTION SYSTEMS RANGES FROM 3' TO 6' BELOW CURRENT FINISHED GRADE AND/OR EXISTING GRADE OFF-SITE BASED ON CURRENT ASSUMPTIONS AND AVAILABLE INFORMATION.

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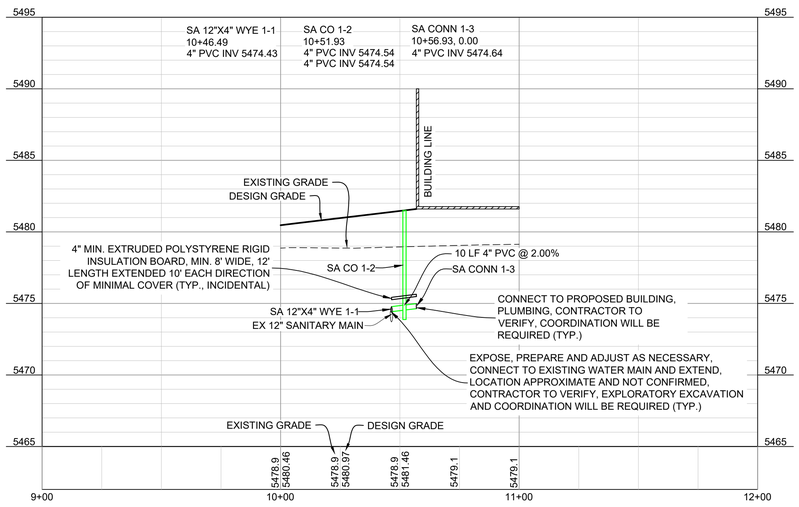
No.: 2524-10500 | Date: 11/02/2026
Drawn: CAL | Checked: AJH
Project Manager: MR
Project Status: CONSTRUCTION DOCUMENTS

Sheet Title: OVERALL UTILITY PLAN

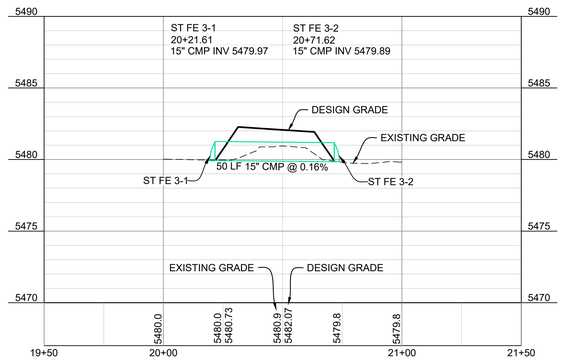
Sheet No.: C8.01

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SANITARY SEWER SERVICE



STORM DRAIN



WATER SERVICE

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING COMPONENTS PRIOR TO COMPLETING PROPOSED CONSTRUCTION.
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3. APPROXIMATE TRENCHING DEPTHS FOR WATER DISTRIBUTION SYSTEMS RANGES FROM 6' TO 7' BELOW CURRENT FINISHED GRADE AND/OR EXISTING GRADE OFF-SITE BASED ON CURRENT ASSUMPTIONS AND AVAILABLE INFORMATION.
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SANITARY SEWER SERVICE

Number		Station	Length	Radius	Line/Chord Direction	Delta		Northing	Easting
L1	B	10+00.00	100.00'		N0° 00' 00.00"E		B	913320.44	1946159.86
	E	11+00.00					E	913420.44	1946159.86

STORM DRAIN

Number		Station	Length	Radius	Line/Chord Direction	Delta		Northing	Easting
L2	B	20+00.00	100.00'		N55° 41' 17.36"E		B	913694.49	1945988.89
	E	21+00.00					E	913750.86	1946071.49

WATER SERVICE

Number		Station	Length	Radius	Line/Chord Direction	Delta		Northing	Easting
L3	B	30+00.00	179.83'		S45° 00' 00.00"E		B	913749.01	1946075.70
	E	31+79.83					E	913621.85	1946202.86
L4	B	31+79.83	123.52'		S0° 00' 00.00"E		B	913621.85	1946202.86
	E	33+03.35					E	913498.33	1946202.86
L5	B	33+03.35	46.65'		N90° 00' 00.00"W		B	913498.33	1946202.86
	E	33+50.00					E	913498.33	1946156.21

30 0 30 60
SCALE FEET
HORIZONTAL SCALE

5 0 5 10
SCALE FEET
VERTICAL SCALE

1 **OVERALL UTILITY PROFILES**
1"=30'

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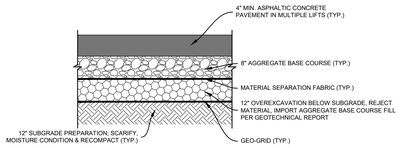
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Project Manager: MR
Project Status: CONSTRUCTION DOCUMENTS

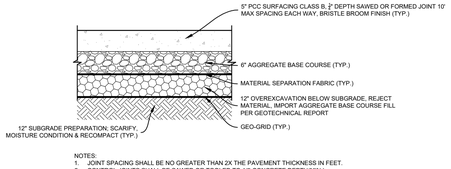
Sheet Title: OVERALL UTILITY PROFILES

Sheet No.: C8.02

Oct 29, 2026 - 4:40pm - K:\Projects\ProfServices\BruntonArchitects\2524-10500_SageFundBuildings\CAD\Design\Plans\2524-10500_WRDF_EcoTourism_OverallUtilityPlan.dwg (C8.02 OVERALL UTILITY PROFILES)

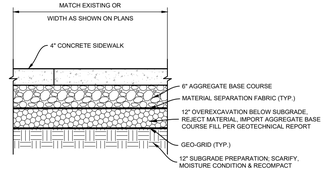


1 **AC PAVEMENT SECTION**
NO SCALE



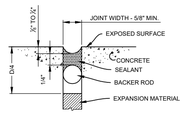
NOTES:
1. JOINT SPACING SHALL BE NO GREATER THAN 2X THE PAVEMENT THICKNESS IN FEET.
2. CONTROL JOINTS SHALL BE SAWED OR TOOLED TO 1/3 CONCRETE DEPTH(MIN.)
3. PRE-FORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE PAVEMENT AND SHALL BE USED AT ALL JOINTS BETWEEN NEW BUILDINGS.

2 **PCC PAVEMENT SECTION**
NO SCALE

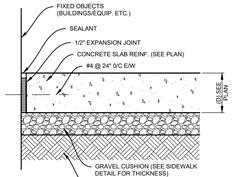


NOTES:
1. CONSTRUCTION JOINTS SPACED 5' MIN. AND 8' MAX.
2. SIDEWALK WIDTH 5' OR LESS - JOINT SPACING = 5' SIDEWALK WIDTH 5' OR MORE - JOINT SPACING 6'-8'
3. CONTROL JOINTS SHALL BE SAWED OR TOOLED TO 1/4 CONCRETE DEPTH (MIN.)
4. EXPANSION JOINTS EVERY 150 L.F. (MAX.) AS PER EXPANSION JOINT DETAIL WITH BACKER ROD AND SEALANT

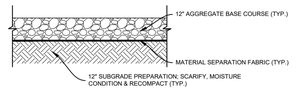
3 **4" CONCRETE SIDEWALK**
NO SCALE



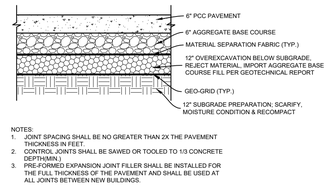
4 **EXPANSION JOINT SEAL**
NO SCALE



5 **EXPANSION JOINT**
NO SCALE

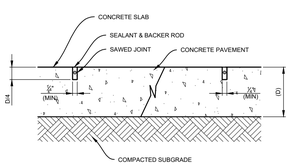


6 **GRAVEL SURFACE SECTION**
NO SCALE

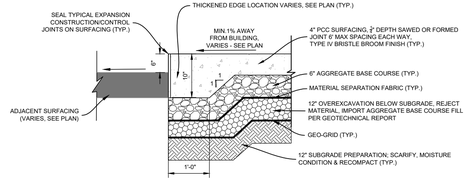


NOTES:
1. JOINT SPACING SHALL BE NO GREATER THAN 2X THE PAVEMENT THICKNESS IN FEET.
2. CONTROL JOINTS SHALL BE SAWED OR TOOLED TO 1/3 CONCRETE DEPTH(MIN.)
3. PRE-FORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE PAVEMENT AND SHALL BE USED AT ALL JOINTS BETWEEN NEW BUILDINGS.

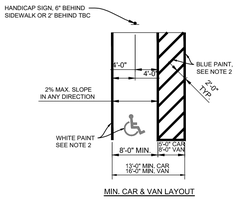
7 **UNREINFORCED TRASH/MECHANICAL PAD ENCLOSURE CONCRETE PAVEMENT SECTION**
NO SCALE



8 **CONCRETE PAVEMENT TOOLED OR SAWED CONTROL JOINT**
NO SCALE

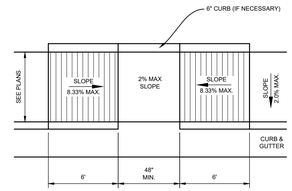


9 **4" PCC SIDEWALK WITH THICKENED EDGE**
NO SCALE

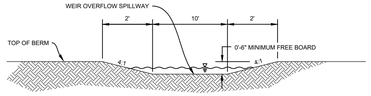


NOTES:
1. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL.
2. USE WHITE DOUBLE COAT.
3. ALL DIMENSIONS OF SYMBOL SHALL CONFORM WITH FEDERAL STANDARDS.
4. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS ABLE 96" (8') WIDE MINIMUM AND SHALL BE DESIGNATED "VAN ACCESSIBLE".

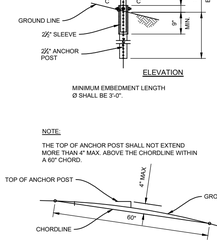
10 **ADA PARKING STALL STRIPING**
NO SCALE



11 **TYPE C ACCESSIBLE RAMP & DETECTABLE PANELS**
NO SCALE



12 **WEIR OVERFLOW STRUCTURE**
NO SCALE

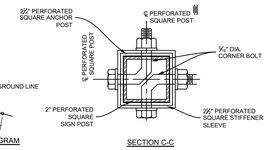


GENERAL NOTES:
1. ALL POSTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653.
2. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

INSTALLATION PROCEDURE:
1. DRIVE ANCHOR POST AND SLEEVE TO WITHIN APPROXIMATELY 1 1/2 " ABOVE GROUND LEVEL.
2. INSERT SIGN POST INTO ANCHOR TO A MINIMUM DEPTH OF 9" BELOW GROUND LEVEL.
3. PLACE CORNER BOLTS AND FLAT WASHERS THROUGH TOP HOLES IN ANCHOR POST. REMOVE DIRT FROM AROUND THE POST AS NECESSARY TO ALLOW ROOM FOR BOLTS
4. PLACE A FLAT WASHER & NUT ON EACH BOLT.
5. TIGHTEN NUTS AND TAMP EARTH AROUND BASE POST FIRMLY.
6. FOR SIGNS OVER 48" WIDE, TWO POSTS ARE REQUIRED.

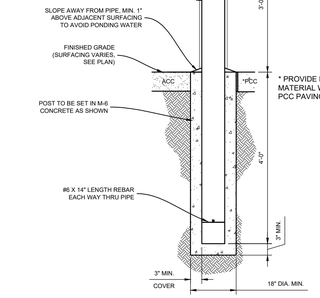
NOTE:
THE TOP OF ANCHOR POST SHALL NOT EXTEND MORE THAN 4" MAX. ABOVE THE CHORDLINE WITHIN A 60° CHORD.

BREAKAWAY SUPPORT STUB CLEARANCE DIAGRAM



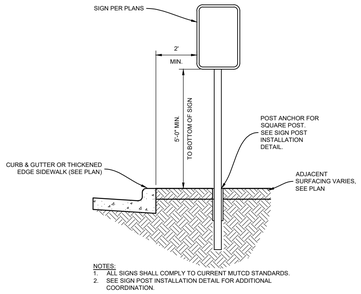
SECTION C-C

13 **SIGN POST INSTALLATION DETAIL**
NO SCALE



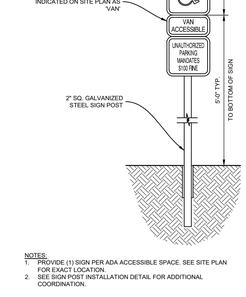
* PROVIDE EXPANSION JOINT MATERIAL WHEN ABUTTING PCC PAVING

14 **PROTECTION BOLLARD**
NO SCALE



NOTES:
1. ALL SIGNS SHALL COMPLY TO CURRENT MUTCD STANDARDS.
2. SEE SIGN POST INSTALLATION DETAIL FOR ADDITIONAL COORDINATION.

15 **ADA ACCESSIBLE SIGN WITH CURB DETAIL**
NO SCALE



NOTES:
1. PROVIDE (1) SIGN PER ADA ACCESSIBLE SPACE. SEE SITE PLAN FOR EXACT LOCATION.
2. SEE SIGN POST INSTALLATION DETAIL FOR ADDITIONAL COORDINATION.

16 **ADA ACCESSIBLE PARKING SIGN**
NO SCALE

TEE & CROSS TABLE						
FITTING SIZE	MAIN LENGTH	BRANCH LENGTH	FITTING SIZE	MAIN LENGTH	BRANCH LENGTH
4"x4"	6'	1'	16"x10"	6'	1'
6"x4"	6'	1'	16"x12"	6'	1'
6"x6"	6'	1'	16"x16"	13'	1'
8"x4"	6'	1'	20"x6"	6'	1'
8"x6"	6'	1'	20"x8"	6'	1'
8"x8"	6'	4'	20"x10"	6'	1'
10"x4"	6'	1'	20"x12"	6'	1'
10"x6"	6'	1'	20"x16"	10'	4'
10"x8"	6'	1'	20"x20"	16'	1'
10"x10"	8'	1'	24"x6"	6'	1'
12"x4"	6'	1'	24"x8"	6'	1'
12"x6"	6'	1'	24"x10"	6'	1'
12"x8"	6'	1'	24"x12"	8'	1'
12"x10"	6'	5'	24"x16"	13'	1'
12"x12"	9'	1'	24"x20"	20'	2'
16"x6"	6'	1'	24"x24"	20'	52'
16"x8"	6'	1'			

NOTES:
1. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED PER THE SPECIFICATIONS. ALL FITTINGS SHALL BE MECHANICAL JOINT.
2. ALL GATE VALVES AND FIRE HYDRANTS SHALL BE MECHANICALLY RESTRAINED PER THE SPECIFICATIONS. ALL GATE VALVES AND FIRE HYDRANTS SHALL BE MECHANICAL JOINT.
3. PIPE JOINTS SHALL BE RESTRAINED WITH A BELL RESTRAINT FITTING IF THE PIPE JOINT IS LOCATED CLOSER THAN THE RESTRAINING LENGTH (RL) FROM ANY FITTINGS AS LISTED IN THE TABLES.
4. REFER TO THE JOINT RESTRAINT TABLES AND LOWERING DETAIL FOR MORE INFORMATION.
5. ALL BURIED PIPE, FITTINGS, VALVES, AND SADDLES SHALL BE PROTECTED FROM CORROSION AS REQUIRED BY THE SPECIFICATIONS AND DETAILS.

17 **JOINT RESTRAINTS**
NO SCALE

VALVE & CAP/PLUG TABLE	
FITTING SIZE	LENGTH
4"	31'
6"	43'
8"	57'
10"	69'
12"	82'
16"	116'
20"	143'
24"	170'

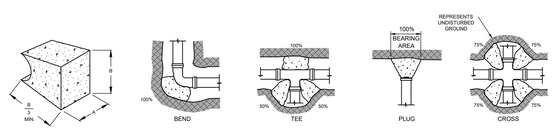
REDUCER TABLE	
FITTING SIZE	LENGTH
6"x4"	23'
8"x4"	41'
8"x6"	24'
10"x4"	56'
10"x6"	43'
10"x8"	23'
12"x4"	71'
12"x6"	60'
12"x8"	44'
12"x10"	24'
16"x6"	98'
16"x8"	85'
16"x10"	69'
16"x12"	50'
20"x10"	105'
20"x12"	90'
20"x16"	51'
24"x12"	125'
24"x16"	93'
24"x20"	51'

45° HORIZONTAL BEND TABLE	
FITTING SIZE	LENGTH
4"	5'
6"	7'
8"	8'
10"	10'
12"	12'
16"	17'
20"	20'
24"	24'

22.5° HORIZONTAL BEND TABLE	
FITTING SIZE	LENGTH
4"	3'
6"	3'
8"	4'
10"	5'
12"	6'
16"	8'
20"	10'
24"	12'

11.25° HORIZONTAL BEND TABLE	
FITTING SIZE	LENGTH
4"	2'
6"	2'
8"	2'
10"	3'
12"	3'
16"	4'
20"	5'
24"	6'

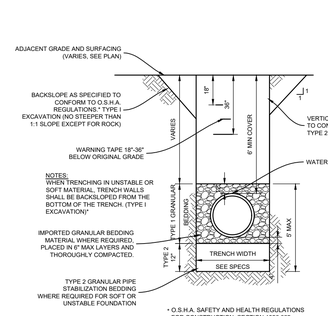
90° HORIZONTAL BEND TABLE	
FITTING SIZE	LENGTH
4"	11'
6"	15'
8"	20'
10"	24'
12"	28'
16"	40'
20"	49'
24"	57'



STANDARD MINIMUM DIMENSIONS FOR THRUST BLOCKING																				
FITTING SIZES	PLUGS			TEES			CROSSES			90° BENDS			45° BENDS			22 1/2° BENDS				
	A	B	MIN. CY	A	B	MIN. CY	A	B	MIN. CY	A	B	MIN. CY	A	B	MIN. CY	A	B	MIN. CY		
4"	1'-7"	1'-2"	0.18	1'-7"	1'-2"	0.36	1'-7"	1'-2"	0.72	1'-9"	1'-4"	0.10	1'-8"	0'-10"	0.10	1'-7"	0'-6"	0.10		
6"	2'-0"	1'-11"	0.20	2'-0"	1'-11"	0.40	2'-0"	1'-11"	0.80	2'-5"	2'-2"	0.30	1'-10"	1'-7"	0.10	1'-9"	0'-10"	0.10		
8"	2'-8"	2'-6"	0.70	2'-8"	2'-6"	1.40	2'-8"	2'-6"	2.80	3'-2"	3'-0"	0.70	2'-5"	2'-1"	0.30	1'-9"	1'-4"	0.10		
10"	3'-4"	3'-3"	1.50	3'-4"	3'-3"	3.00	3'-4"	3'-3"	6.00	4'-0"	3'-10"	1.50	3'-0"	2'-9"	0.60	2'-2"	1'-11"	0.30		
12"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-6"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		
16"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-8"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		
20"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-8"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		
24"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-8"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		
30"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-8"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		
36"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-8"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		
42"	4'-0"	3'-10"	2.50	4'-0"	3'-10"	5.00	4'-0"	3'-10"	10.00	4'-8"	4'-8"	2.50	3'-8"	3'-3"	1.00	2'-7"	2'-3"	0.35		

NOTES:
1. THIS TABLE IS BASED ON 150 PSI MAIN PRESSURE AND 2000 PSF SOIL BEARING PRESSURE.
2. WRAP ALL FITTINGS WITH POLYETHYLENE.

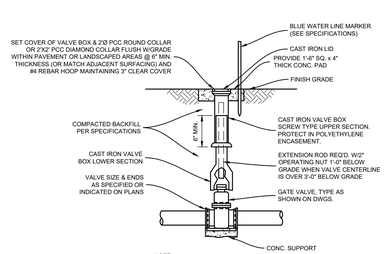
18 **THRUST BLOCKING**
NO SCALE



NOTES:
WHEN TRENCHING IN UNSTABLE OR SOFT MATERIAL, TRENCH WALLS SHALL BE BACKSLOPED FROM THE BOTTOM OF THE TRENCH. (TYPE I EXCAVATION)*

* O.S.H.A. SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, SECTION 1926.652.

19 **WATER TYPICAL PIPE TRENCH**
NO SCALE



NOTE:
PROTECT BURIED VALVES WITH CORROSION PROTECTION, AS SPECIFIED.

20 **BURIED GATE VALVE BOX**
NO SCALE

1 CONSTRUCTION DETAILS
NTS

BRUNTON
MINNEAPOLIS
PH: 952-736-7996
7325 Wayzata Blvd.
Minneapolis, MN 55426
MANKATO
PH: 507-386-7996
225 Belgrade Ave.
North Mankato, MN 56003

Professional Engineer (Civil)
ANTHONY P. MACDONALD
13597
Date 11/02/26
WYOMING
Stamp:

Plan Review Stamp:

Consultant:
KLJ
1900 WEST WARLOW DRIVE, SUITE B
GILLETTE, WY 82716
PH: 307.682.9500
www.kljeng.com

Project:
ECOTOURISM VISITORS CENTER
221 ETHETE ROAD, FORT WASHAKIE, WY 82514

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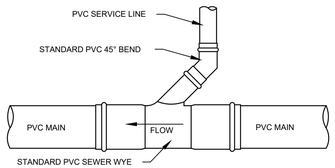
REVISION:

No.: 2524-10500 Date: 11/02/2026
Drawn: CAL Checked: AJH
Project Manager: MR
Project Status: CONSTRUCTION DOCUMENTS

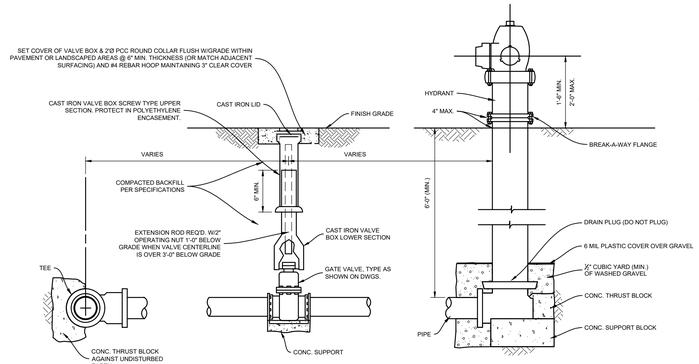
Sheet Title:
CONSTRUCTION DETAILS

Sheet No.:
C12.01

Oct 29, 2026 - 4:40pm - K:\Projects\Prof\Services\Brunton\Architects\2524-10500_SageFundBuildings\CAD\Design\Plans\2524-10500_WRDF_EcoTourism_Details.dwg (C12.01 CONSTRUCTION DETAILS)

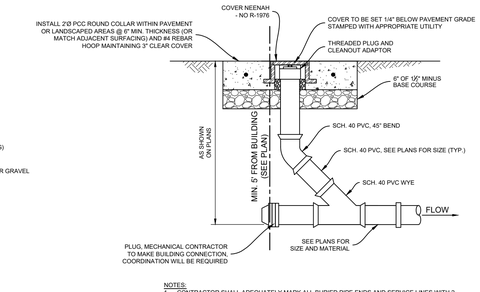


1 **SANITARY SEWER SERVICE CONNECTION**
NO SCALE



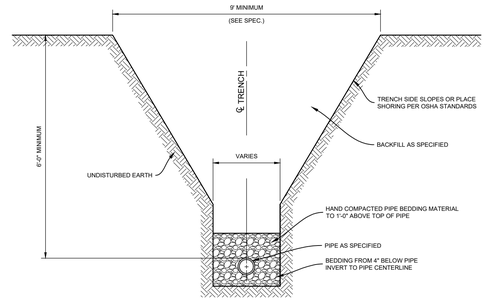
NOTES:
1. HYDRANTS SHALL BE AWWA C502, UL 246, DRY BARREL TYPE, AMERICAN FLOW CONTROL 5-1/4 WATEROUS PACER TRAFFIC MODEL WB67-250, OR ENGINEER APPROVED EQUAL.

2 **TYPICAL HYDRANT WITH AUXILIARY VALVE**
NO SCALE

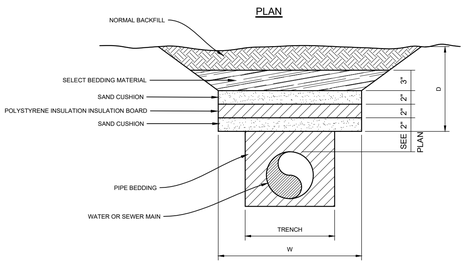


NOTES:
1. CONTRACTOR SHALL ADEQUATELY MARK ALL BURIED PIPE ENDS AND SERVICE LINES WITH 2 x 4 TIMBERS, EXTENDING A MINIMUM OF FOUR FEET ABOVE FINISHED GROUND SURFACE, PAINTED GREEN AND MARKED "SANITARY" FOR SANITARY SEWER UTILITY, AND PAINTED PURPLE AND MARKED "STORM" FOR STORM DRAIN UTILITY.

3 **SANITARY SEWER / STORM DRAIN BUILDING IN-LINE CLEANOUT DETAIL**
NO SCALE



4 **SANITARY SEWER TYPICAL TRENCH DETAIL**
NO SCALE



PLAN

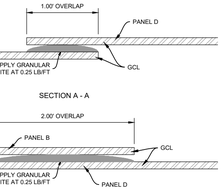
INSULATION WIDTH VS. PIPE DEPTH

WATER		SEWER	
D (FEET)	W (FEET)	D (FEET)	W (FEET)
3	8	2.5	8
4	6	3	6
5	4	3.5	4

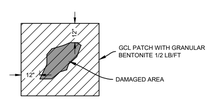
SECTION A-A

NOTES:
1. SAND IS INCIDENTAL TO PIPE INSULATION
2. INSULATION BOARD SHALL BE EXTRUDED POLYSTYRENE, SUITABLE FOR UNDERGROUND APPLICATIONS, R-10 MINIMUM.
3. ALL JOINTS IN INSULATION BOARD SHALL BE STAGGERED AND TAPED.

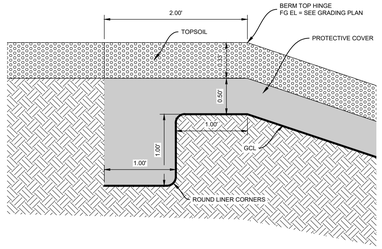
5 **PIPE INSULATION**
NO SCALE



6 **GCL OVERLAP DETAIL**
NO SCALE



7 **BENTONITE - ENHANCED REPAIR OF DAMAGED AREA**
NO SCALE



8 **ANCHOR TRENCH DETAIL**
NO SCALE

1 **CONSTRUCTION DETAILS**
NTS

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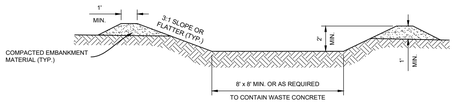
No. / REVISION:

No.:	2524-10500	Date:	11/02/2026
Drawn:	CAL	Checked:	AJH
Project Manager:	MR		
Project Status:	CONSTRUCTION DOCUMENTS		

Sheet Title:
CONSTRUCTION DETAILS

Sheet No.:
C12.02

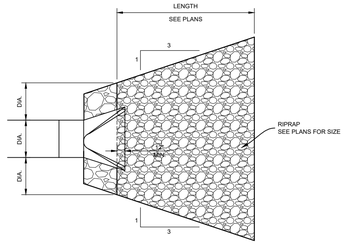
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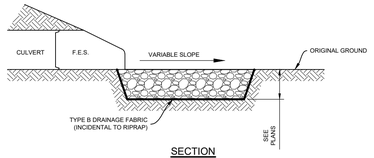
CROSS SECTIONAL VIEW

NOTES:
1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED TO CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
3. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
4. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY THE ENGINEER.

1 CONCRETE WASHOUT AREA
NO SCALE

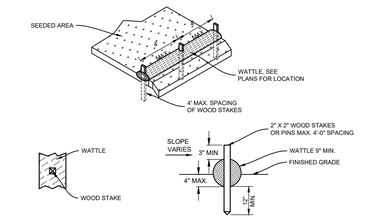


PLAN

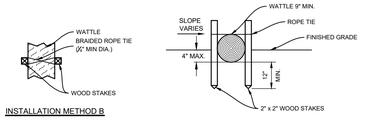


SECTION

3 CULVERT WITH STANDARD END SECTION RIPRAP
NO SCALE

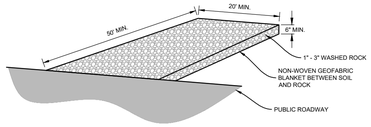


INSTALLATION METHOD A



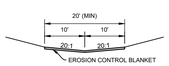
INSTALLATION METHOD B

2 SEDIMENT CONTROL WATTLE
NO SCALE

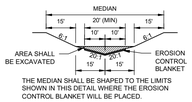


NOTES:
1. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.
2. ALL ROCK TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.
3. PUBLIC ROADWAYS SHALL BE KEPT CLEAN AND FREE OF MUD, DIRT, AND DEBRIS AT ALL TIMES.

4 ROCK CONSTRUCTION ENTRANCE
NO SCALE

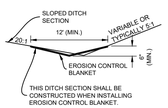


STANDARD DITCH SECTION

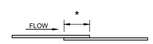


THE MEDIAN SHALL BE SHAPED TO THE LIMITS SHOWN IN THIS DETAIL WHERE THE EROSION CONTROL BLANKET WILL BE PLACED.

MEDIAN SECTION



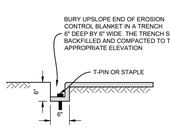
SLOPED DITCH SECTION



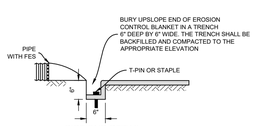
* USE A 4" (MIN.) OVERLAP WHEREVER TWO WIDTHS OF EROSION CONTROL BLANKET ARE APPLIED SIDE BY SIDE.

* USE A 6" (MIN.) OVERLAP WHEREVER ONE ROLL OF EROSION CONTROL BLANKET ENDS AND ANOTHER BEGINS.

OVERLAP DETAIL



TRENCH DETAIL



PIPE END DETAIL

GENERAL NOTES:

PRIOR TO PLACEMENT OF THE EROSION CONTROL BLANKET, THE AREAS SHALL BE PROPERLY PREPARED, SHAPED, SEEDED, AND FERTILIZED.

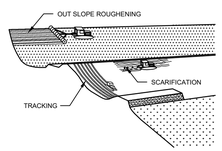
EROSION CONTROL BLANKET SHALL BE UNROLLED IN THE DIRECTION OF THE FLOW OF WATER WHEN PLACED IN DITCHES AND ON SLOPES. THE UPSLOPE END OF THE EROSION CONTROL BLANKET SHALL BE BURIED IN A TRENCH 6" WIDE BY 6" DEEP. THERE SHALL BE AT LEAST A 6" OVERLAP WHEREVER ONE ROLL OF EROSION CONTROL BLANKET ENDS AND ANOTHER BEGINS, WITH THE UPSLOPE EROSION CONTROL BLANKET PLACED ON TOP OF THE DOWNSLOPE EROSION CONTROL BLANKET.

THE EROSION CONTROL BLANKET SHALL BE PINNED TO THE GROUND ACCORDING TO THE MANUFACTURES INSTALLATION RECOMMENDATIONS.

AFTER THE PLACEMENT OF THE EROSION CONTROL BLANKET, THE CONTRACTOR SHALL FINE GRADE ALONG ALL EDGES OF THE BLANKET TO MAINTAIN A UNIFORM SLOPE ADJACENT TO THE BLANKET AND LEVEL ANY LOW SPOTS WHICH MIGHT PREVENT UNIFORM AND UNRESTRICTED FLOW OF SIDE DRAINAGE DIRECTLY ONTO THE EROSION CONTROL BLANKET.

ALL DITCH SECTIONS SHALL BE SHAPED WHEN INSTALLING THE EROSION CONTROL BLANKET.

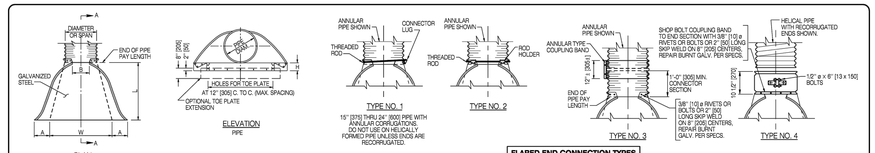
5 EROSION CONTROL BLANKET
NO SCALE



DEFINITION:
PROVIDE A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS CREATED BY OPERATING A TILLAGE OR OTHER SUITABLE IMPLEMENT ON CONTOUR, OR BY LEAVING SLOPES IN A ROUGHENED CONDITION BY NOT FINE-GRADING THEM.

PURPOSES:
1. TO AID IN SEED BED PREPARATION AND ESTABLISHMENT OF VEGETATIVE COVER.
2. TO REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION.
3. TO REDUCE RUNOFF AND WIND EROSION AND PROVIDE FOR SEDIMENT TRAPPING.

6 SURFACE ROUGHENING
NO SCALE



FLARED END CONNECTION TYPES

CORRUGATED METAL PIPE FLARED END SECTIONS
2 2/3 IN x 1/2 IN, 3 IN x 1 IN, AND 5 IN x 1 IN CORRUGATIONS

PIPE DIAMETER	METAL THICKNESS		A (±1 IN)	B (MAX.)	H (±1 IN)	H (±1 1/2 IN)	W (12 IN)	APPROXIMATE SLOPE	BODY
IN	GAGE	IN	IN						
15	16	0.064	7	8	6	26	30	1V:2.5H	1 PIECE
18	16	0.064	8	10	6	31	36	1V:2.5H	1 PIECE
24	16	0.064	10	13	6	41	48	1V:2.5H	1 PIECE
30	14	0.079	12	16	8	51	60	1V:2.5H	1 PIECE
36	14	0.079	14	19	9	60	72	1V:2.5H	2 PIECE
42	12	0.109	16	22	11	69	84	1V:2.5H	2 PIECE
48	12	0.109	18	27	12	78	90	1V:2.25H	2 PIECE
54	12	0.109	18	30	12	84	102	1V:2H	2 PIECE
60	12	0.109	18	33	12	87	114	1V:1.75H	3 PIECE
66	12	0.109	18	36	12	87	120	1V:1.5DH	3 PIECE
72	12	0.109	18	39	12	87	126	1V:1.33H	3 PIECE
78	12	0.109	18	42	12	87	132	1V:1.25H	3 PIECE
84	12	0.109	18	45	12	87	138	1V:1.1H	3 PIECE

METRIC TABLE

CORRUGATED METAL PIPE - ROUND FLARED END SECTIONS
[68 x 13], [76 x 25], AND [125 x 25] CORRUGATIONS

PIPE DIAMETER	METAL THICKNESS	A (±25)	B (MAX.)	H (±25)	H (±5)	W (±150)	APPROXIMATE SLOPE	BODY
mm	mm	mm	mm	mm	mm	mm		
375	1.63	180	205	150	660	760	1V:2.5H	1 PIECE
450	1.63	205	255	150	785	915	1V:2.5H	1 PIECE
600	1.63	255	335	150	1040	1220	1V:2.5H	1 PIECE
750	2.00	305	405	205	1295	1525	1V:2.5H	1 PIECE
900	2.00	355	480	230	1525	1830	1V:2.5H	2 PIECE
1050	2.77	405	560	280	1780	2135	1V:2.5H	2 PIECE
1200	2.77	455	685	305	1980	2285	1V:2.25H	2 PIECE
1350	2.77	455	760	305	2136	2590	1V:2H	2 PIECE
1500	2.77	455	840	305	2210	2895	1V:1.75H	3 PIECE
1650	2.77	455	915	305	2210	3050	1V:1.5DH	3 PIECE
1800	2.77	455	990	305	2210	3202	1V:1.33H	3 PIECE
1950	2.77	455	1065	305	2210	3353	1V:1.25H	3 PIECE
2100	2.77	455	1145	305	2210	3606	1V:1.1H	3 PIECE

GENERAL NOTES

1. Ensure all pipe ends are re-rolled with annular corrugation.
2. A 1in [25] wide, 12 Ga. [2.77] galvanized band strap with 1/2 in Ø x 6 in [13 Ø x 150] bolt and nut may be used in lieu of the rod and lug connector between CMP and Flared Ends for 15 in [375] through 24 in [600] round CMP and CMP Arch with spans of 17 in [425] thru 28 in [700].
3. Ensure three piece bodies to have 12 gage [2.77] sides and 10 gage [3.51] center panels. Multiple panel bodies to have lap seams tightly joined by 3/8 in [10] Ø galvanized rivets or bolts.
4. Supplement reinforced edges with galvanized stiffener angles for 60 in - 84 in [1500 - 2100] round CMP sizes and 81 in x 59 in [2025 x 1475] CMP Arch. Attach angles with galvanized nuts and bolts.
5. For connections use Type 3 and 4 annular type bands unless otherwise approved by the engineer.
6. Measure and pay for Type 3 flared end connector sector as pipe.

Prepared by: HWW Drawn by: KAP Checked by: MLC 603-020	GENERAL REQUIREMENTS AND ROUND CMP FLARED END DIMENSION TABLES	WYOMING DEPARTMENT OF TRANSPORTATION	CMP FLARE END SECTIONS STANDARD PLAN

Note: Units shown in brackets [ ] are metric and are in millimeters (mm) unless other units are shown.

STANDARD PLAN NUMBER: **603-2**
SHEET 1 of 2
Approved: ENGINEERING SERVICES DIV.
Approved: NOVEMBER, 2004
FILE: c:\dan\final_604_20040923_01.dgn

1 CONSTRUCTION DETAILS
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