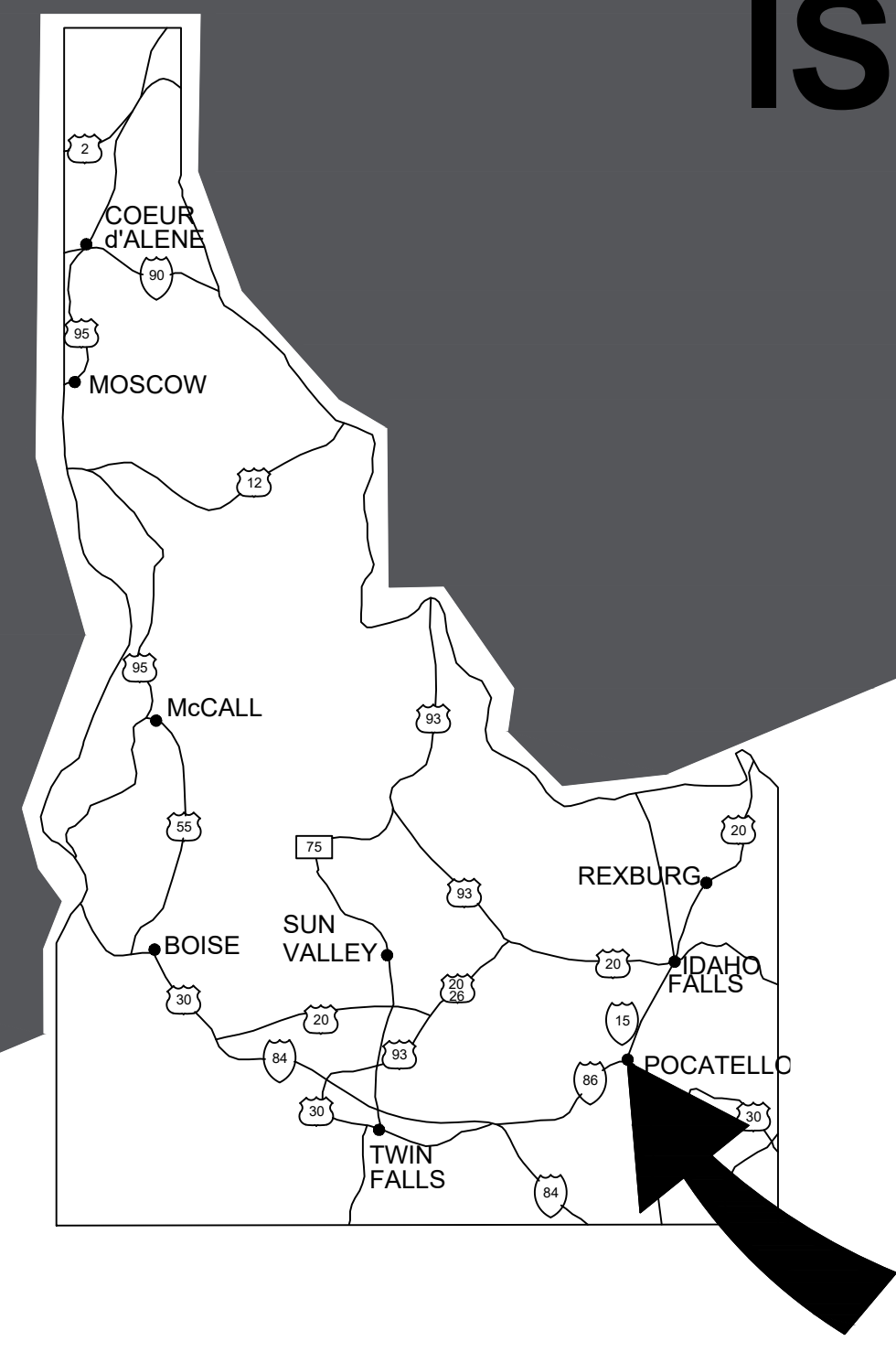


# DPW PROJECT 21-654 ISU: REPAIR UTILITY TUNNEL IDAHO STATE UNIVERSITY POCATELLO

MARCH 2024



C1 VICINITY MAP  
N.T.S.

## PROJECT LOCATION

### CONTACTS

**OWNER:**  
STATE OF IDAHO  
DIVISION OF PUBLIC WORKS  
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P.O. BOX 83720  
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**AGENCY REP.:**  
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EMAIL: elquicol2@isu.edu

**CIVIL ENGINEER:**  
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**PROJECT MANAGER:**  
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**PROJECT ENGINEER:**  
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**MECHANICAL ENGINEER:**  
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**ENGINEER:**  
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**ELECTRICAL ENGINEER:**  
MUSGROVE ENGINEERING  
645 W 25th St.  
IDAHO FALLS, ID 83402

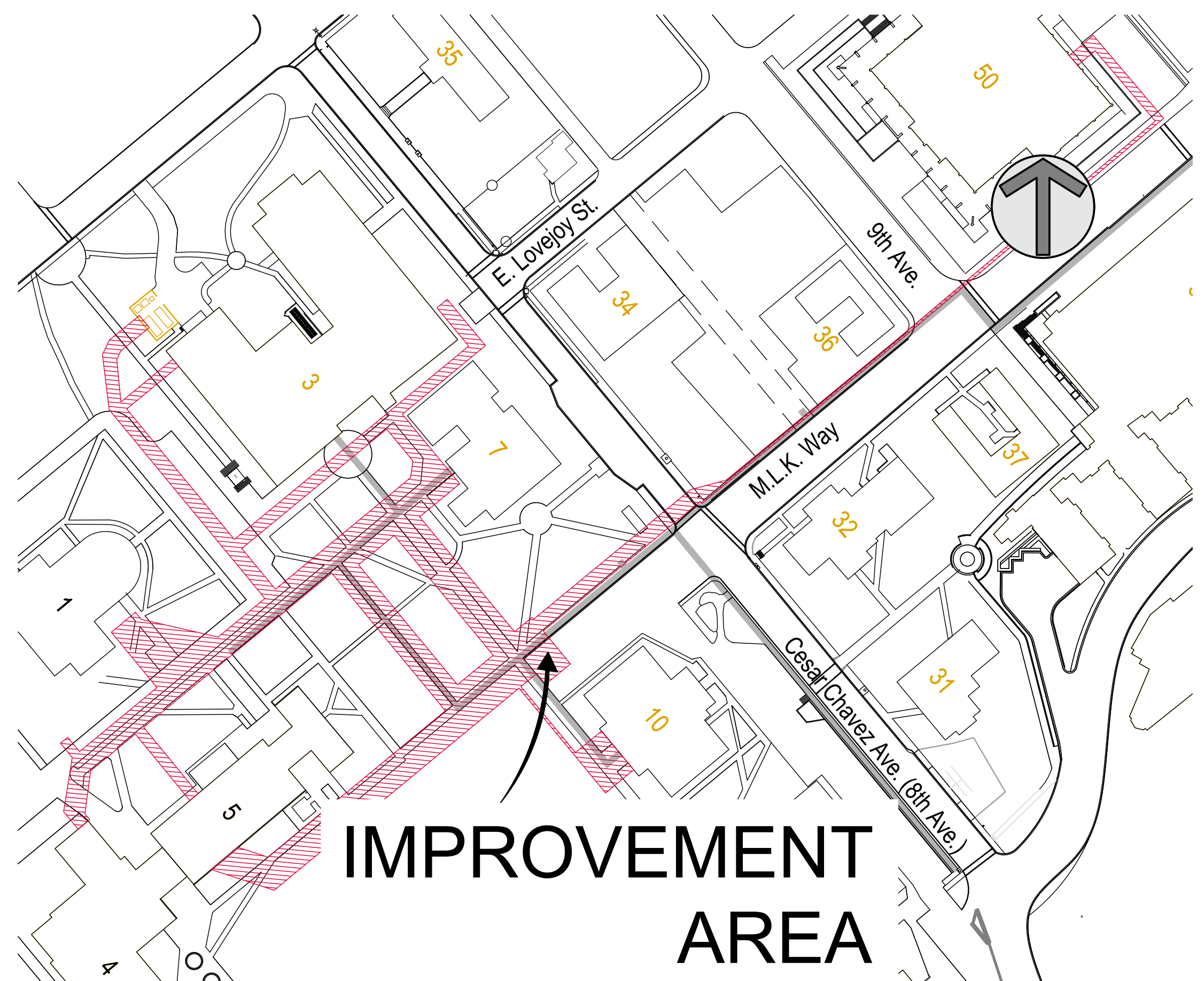
**ENGINEER:**  
MATTHEW N. BRADLEY  
PHONE: 208.523.2862  
EMAIL: matt@muscgrovepa.com

### DESCRIPTION OF BASE BID:

**A** REMOVAL OF 285 LINEAR FEET OF CRAW TUNNEL AND 327 LINEAR FEET OF WALKABLE TUNNEL. INSTALL 435 LINEAR FEET OF NEW WALKABLE TUNNEL. REMOVAL AND REPLACEMENT OF THE STAIRS/VAULT AT THE WEST ENTRANCE TO THE ADMINISTRATION BUILDING. 1,342 LINEAR FEET OF COMMUNICATIONS CONDUIT BANK, 1,654 LINEAR FEET OF HIGH VOLTAGE/COMMUNICATIONS CONDUIT BANK, 1,027 LINEAR FEET OF HIGH VOLTAGE CONDUIT BANK, ALONG WITH PULL BOXES, VAULTS, AND SWITCH GEAR. CONDUIT BANKS TO BE INSTALLED BY OPEN TRENCH OR BORING AS PER PLANS. OTHER IMPROVEMENTS AS PER PLANS ON THE CAMPUS OF IDAHO STATE UNIVERSITY, POCATELLO, ID. WITHIN THE NEW TUNNEL SYSTEM, THE PROJECT WILL INCLUDE: THE REPLACEMENT OF THE EXISTING STEAM AND CONDENSATE LINES, UPDATE THE VENTILATION SYSTEM, ADD A SUMP PUMP, SIDEWALK & RAILING REPLACEMENT, AND MAKE THE CONNECTIONS OF THE NEW WALKING TUNNEL SECTIONS TO THE EXISTING CRAWL AND WALKING TUNNEL SYSTEMS.

### B PHASING:

- STEAM TUNNEL COMPLETE & STEAM LINES OPERATIONS PHASE INCLUDES ALL WORK OUTLINED IN THE PLANS AND SPECIFICATIONS FOR THE NEW STEAM TUNNEL TO BE FULLY COMPLETE (FOOTING, WALLS, CAP, ETC.), AND STEAM AND CONDENSATE LINES AND APPURTENANCES FULLY OPERATIONAL, AND ALL HVAC, SUMP PUMP, AND ELECTRICAL WITHIN THE TUNNEL TO BE FULLY COMPLETE. BACK FILL ADJACENT TO TUNNEL TO BE BACKFILLED AT A MINIMUM HALF WAY UP EACH SIDE OF THE TUNNEL WALLS.
- ENTIRE PROJECT PHASE INCLUDES COMPLETION OF ALL WORK OUTLINED IN THE PLANS AND SPECIFICATIONS WITHIN 150 DAYS OF THE NOTICE TO PROCEED. WORK INCLUDES COMPLETION OF ALL TRENCHING, BORING, CONDUIT BANKS, VAULTS, PULL BOXES, SIDEWALKS, RAILINGS, LANDSCAPING, SITE LIGHTING, ETC..



## IMPROVEMENT AREA

A1 LOCATION MAP  
N.T.S.

Sheet Number	Sheet Title	Sheet Number	Sheet Title
G-001	TITLE SHEET	G-001	M-001 MECHANICAL EQUIPMENT SCHEDULES
G-002	GENERAL NOTES	G-002	MD-101 STEAM PIPING IN TUNNEL DEMOLITION PLAN
G-003	SYMBOLS & LINE LEGEND	G-003	MD-102 STEAM PIPING IN TUNNEL DEMOLITION PLAN
G-004	VEHICULAR TEMPORARY TRAFFIC CONTROL PLAN	G-004	M-100 OVERALL SITE PLAN
G-005	OFF SITE MATERIALS STORAGE LOCATION AND TRUCKING ROUTE	G-005	M-101 STEAM PIPING IN TUNNEL REMODEL PLAN
CE-101	STAGING, EROSION & SEDIMENTATION CONTROL PLAN	CE-101	M-102 STEAM PIPING IN TUNNEL REMODEL PLAN
CE-102	STAGING, EROSION & SEDIMENTATION CONTROL PLAN	CE-102	M-103 STEAM PIPING IN TUNNEL REMODEL PLAN
CE-501	EROSION & SEDIMENT CONTROL DETAILS	CE-501	M-301 TUNNEL C SECTION
V-100	EXISTING OVERALL SITE PLAN	V-100	M-302 TUNNEL D SECTION
V-101	EXISTING SITE PLAN	V-101	M-401 ENLARGED TUNNEL REMODEL PLANS
V-102	EXISTING SITE PLAN	V-102	M-402 ENLARGED TUNNEL REMODEL PLANS
V-103	EXISTING SITE PLAN	V-103	M-501 PIPING SUPPORT, GUIDE, AND ANCHOR DETAILS AND SECTIONS
V-104	EXISTING SITE PLAN	V-104	E-000 ELECTRICAL TITLE SHEET
V-105	EXISTING SITE PLAN	V-105	ED-100 OVERALL DEMOLITION PLAN
V-106	EXISTING SITE PLAN	V-106	ED-101 DEMOLITION PLAN
V-107	EXISTING SITE PLAN	V-107	ED-102 DEMOLITION PLAN
V-108	EXISTING SITE PLAN	V-108	ED-103 DEMOLITION PLAN
V-109	EXISTING SITE PLAN	V-109	ED-104 DEMOLITION PLAN
V-110	EXISTING SITE PLAN	V-110	ED-105 DEMOLITION PLAN
V-111	EXISTING SITE PLAN	V-111	ED-106 DEMOLITION PLAN
V-112	EXISTING SITE PLAN	V-112	ED-107 DEMOLITION PLAN
V-501	EXISTING ENLARGED SITE DETAIL	V-501	ED-108 DEMOLITION PLAN
CD-100	OVERALL DEMOLITION PLAN	CD-100	E-100 OVERALL INSTALLATION PLAN
CD-101	DEMOLITION PLAN	CD-101	E-101 INSTALLATION PLAN
CD-102	DEMOLITION PLAN	CD-102	E-102 INSTALLATION PLAN
CD-103	DEMOLITION PLAN	CD-103	E-103 INSTALLATION PLAN
CD-104	DEMOLITION PLAN	CD-104	E-104 INSTALLATION PLAN
CD-105	DEMOLITION PLAN	CD-105	E-105 INSTALLATION PLAN
CD-106	DEMOLITION PLAN	CD-106	E-106 INSTALLATION PLAN
CD-107	DEMOLITION PLAN	CD-107	E-107 INSTALLATION PLAN
CD-108	DEMOLITION PLAN	CD-108	E-108 INSTALLATION PLAN
CD-109	DEMOLITION PLAN	CD-109	E-109 INSTALLATION PLAN
CD-110	DEMOLITION PLAN	CD-110	E-110 INSTALLATION PLAN
CD-111	DEMOLITION PLAN	CD-111	E-111 INSTALLATION PLAN
CD-112	DEMOLITION PLAN	CD-112	E-112 INSTALLATION PLAN
C-100	OVERALL SITE & TUNNEL PLAN	C-100	E-113 INSTALLATION PLAN
C-101	SITE & TUNNEL PLAN	C-101	E-200 OVERALL LIGHTING INSTALLATION PLAN
C-102	SITE & TUNNEL PLAN	C-102	E-201 LIGHTING INSTALLATION PLAN
C-103	SITE & TUNNEL PLAN	C-103	E-202 LIGHTING INSTALLATION PLAN
C-200	OVERALL GRADING PLAN	C-200	E-203 LIGHTING INSTALLATION PLAN
C-201	GRADING PLAN	C-201	E-300 ELECTRICAL DETAILS
C-202	GRADING PLAN	C-202	E-301 ELECTRICAL DETAILS
C-203	GRADING PLAN	C-203	E-302 ELECTRICAL DETAILS
C-204	GRADING PLAN	C-204	E-400 BUILDING 01 FRAZIER HALL 1ST FLOOR
C-205	GRADING PLAN	C-205	E-401 BUILDING 03/03A PHYSICAL SCIENCE AND CHEMISTRY
C-206	GRADING PLAN	C-206	E-402 BUILDING 04 LIBERAL ARTS
C-207	GRADING PLAN	C-207	E-403 BUILDING 05 BUSINESS BASEMENT LEVEL
C-208	GRADING PLAN	C-208	E-404 BUILDING 07 LULUBRIDGE ENGINEERING BASEMENT LEVEL
C-209	GRADING PLAN	C-209	E-405 BUILDING 10 ADMINISTRATION FIRST LEVEL
C-210	GRADING PLAN	C-210	E-406 BUILDING 50 OBOLER LIBRARY FIRST LEVEL
C-211	GRADING PLAN	C-211	
C-212	GRADING PLAN	C-212	
C-300	OVERALL SITE & CONDUIT BANK PLAN	C-300	
C-301	SITE & CONDUIT BANK PLAN & PROFILE	C-301	
C-302	SITE & CONDUIT BANK PLAN & PROFILE	C-302	
C-303	SITE & CONDUIT BANK PLAN & PROFILE	C-303	
C-304	SITE & CONDUIT BANK PLAN & PROFILE	C-304	
C-305	SITE & CONDUIT BANK PLAN & PROFILE	C-305	
C-306	SITE & CONDUIT BANK PLAN & PROFILE	C-306	
C-307	SITE & CONDUIT BANK PLAN & PROFILE	C-307	
C-308	SITE & CONDUIT BANK PLAN & PROFILE	C-308	
C-309	SITE & CONDUIT BANK PLAN & PROFILE	C-309	
C-310	SITE & CONDUIT BANK PLAN & PROFILE	C-310	
C-311	SITE & CONDUIT BANK PLAN & PROFILE	C-311	
C-312	SITE & CONDUIT BANK PLAN & PROFILE	C-312	
C-313	SITE & CONDUIT BANK PLAN & PROFILE	C-313	
C-314	SITE & CONDUIT BANK PLAN & PROFILE	C-314	
C-315	SITE & CONDUIT BANK PLAN & PROFILE	C-315	
C-316	SITE & CONDUIT BANK PLAN & PROFILE	C-316	
C-401	ENLARGED SITE DETAIL	C-401	
C-402	NEW TUNNEL C PROFILE SECTION	C-402	
C-403	NEW TUNNEL D PROFILE SECTION	C-403	
C-404	ENLARGED SITE DETAIL	C-404	
C-405	ENLARGED SITE DETAIL	C-405	
C-406	ENLARGED SITE DETAIL	C-406	
C-501	SITE DETAILS	C-501	
C-502	SITE DETAILS	C-502	
C-503	TUNNEL SECTION DETAILS	C-503	
C-504	TUNNEL SECTION DETAILS	C-504	
C-505	SITE DETAILS	C-505	
C-506	SITE & TUNNEL SECTION DETAILS	C-506	
C-507	TUNNEL SECTION DETAILS	C-507	
--	APPENDIX DIVIDER SHEET	--	
--	IRRIGATION - 11 OF 43	--	
--	IRRIGATION - 12 OF 43	--	
--	IRRIGATION - 15 OF 43	--	



NO.	REVISIONS	DATE

DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
TITLE SHEET



CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY (IDAHO CODE 67-5710)

This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project. If acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.

Approval: Approved

Name or Role	Approved
1. Agency - Signature Authority	Approved Mar 12, 2024 08:53 AM MST
2. Project Manager	Approved Mar 13, 2024 01:40 PM MST
3. Project Manager Senior	Approved Mar 20, 2024 04:59 PM MST
4. DPW Administrator	Approved Mar 21, 2024 03:52 PM MST

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. G-001



# GENERAL NOTES

- FOR ALL OF THE UTILITY LOCATES CONTRACTOR SHALL CALL DIG-LINE AT 1-800-342-1585 TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN UTILITIES AND PLANS. FOR LOCATES OF IDAHO STATE UNIVERSITY UTILITIES CALL ISU AT 208-282-4710. CONTRACTOR TO HIRE A PRIVATE UTILITY LOCATES FIRM IF NECESSARY TO LOCATE CAMPUS OWNED UTILITIES IF ISU IS NOT ABLE TO LOCATED AND MARK.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
- A PRE-CONSTRUCTION MEETING WILL BE HELD PRIOR TO COMMENCEMENT OF WORK, ALL CONTRACTORS, SUBCONTRACTORS, AND/OR UTILITY CONTRACTORS, REQUIRED AGENCY PERSONNEL, AND THE OWNER'S ENGINEER SHALL BE PRESENT.
- THE CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN THE CONSTRUCTION AREA AND IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN. CONSTRUCTION/SAFETY FENCING SHOULD BE PORTABLE 6-FOOT TALL CHAIN LINK AND SUPPORTED BY T-POSTS OR WEIGHTED BASES. TEMPORARY CONSTRUCTION FENCING NEEDS TO BE SECURE WITH LOCKABLE GATES.
- ALL MATERIALS FURNISHED FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THESE REQUIREMENTS AT THE REQUEST OF THE AGENCY, THE ENGINEER, AND OWNER.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES SHALL NOTIFY DEPARTMENT OF PUBLIC WORKS AND IDAHO STATE UNIVERSITY OF ANY TESTING AND ANY UTILITY INTERRUPTIONS OR PLANNED OUTAGES AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.
- ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTOR'S ACCOUNT.
- WORK SUBJECT TO APPROVAL BY ANY AGENCY MUST BE INSPECTED AND APPROVED PRIOR TO (A) PLACING OF CONCRETE, (B) PLACING OF AGGREGATE BASE, (C) PLACING OF ASPHALT PAVING, AND (D) BACKFILLING TRENCHES FOR PIPE. WORK DONE WITHOUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER.
- ALL MATERIAL PLACED AS FILL OR BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- MISCELLANEOUS SMALL STRUCTURES SUCH AS FENCING, SIGNS, PARKING CURB STOPS, IRRIGATION AND DRAINAGE FACILITIES, UTILITY POLES, LINES, AND APPURTENANCES. WHEN NECESSARY TO REMOVE OR DISTURB, SHALL BE REPLACED OR RECONSTRUCTED TO EQUAL OR BETTER THAN THEIR CONDITION PRIOR TO DISTURBANCE AT CONTRACTOR'S EXPENSE.
- WHEN DISCREPANCIES OCCUR BETWEEN SPECIFICATIONS, OR SHEETS IN THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. UNTIMELY NOTIFICATION SHALL NEGATE ANY CONTRACTOR'S CLAIM FOR ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SOURCES FOR GRANULAR MATERIALS, WATER, WASTE SITES, AND ANY OTHER MATERIALS SOURCED AS REQUIRED FOR PROJECT COMPLETION.
- CONTRACTOR SHALL PROVIDE & RETAIN EVIDENCE OF ALL PERMITS PERTAINING TO THE CLEARING AND GRUBBING OF THE SITE.
- OWNER WILL HIRE A MATERIALS TESTING FIRM TO PROVIDE ALL TESTING NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THE CITY AND/OR SPECIFICATIONS. SUCH TESTS SHALL BE SUBMITTED TO THE ENGINEER.  
SPECIAL INSPECTION IS REQUIRED PER IBC 2015 CHAPTER 17 FOR THE FOLLOWING CONSTRUCTION:
  - PERIODIC INSPECTION FOR REINFORCING STEEL AND PLACEMENT
  - PERIODIC INSPECTION OF ANCHORS CAST IN CONCRETE AND POST INSTALLED ANCHORS.
  - CONTINUOUS INSPECTION DURING CONCRETE POURS, SAMPLING OF TEST SPECIMENS, STRENGTH TESTS, SLUMP AND AIR.
- THE CONTRACTOR SHALL COORDINATE ALL INSPECTIONS WITH THE ENGINEER OF RECORD AND IDAHO STATE UNIVERSITY. THE ENGINEER AND UNIVERSITY SHALL BE NOTIFIED TO INSPECT: 1) REBAR, 2) FILL MATERIAL, STRUCTURAL AND NON-STRUCTURAL.
- ACCEPTANCE OF ALL IMPROVEMENTS BY THE OWNER SHALL CONSTITUTE SUBSTANTIAL COMPLETION OF THIS PROJECT.
- WITHIN 2 WEEKS AFTER THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT A SET OF AS-BUILT PLANS TO THE ENGINEER.
- ISU IS A SMOKE-FREE CAMPUS. SMOKING IS PROHIBITED ON ALL PROPERTY WHOLLY OWNED, LEASED OR OPERATED BY ISU.
- ISU IS A GUN-FREE CAMPUS. GUNS ARE PROHIBITED ON ALL PROPERTY WHOLLY OWNED, LEASED OR OPERATED BY ISU.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPLICABLE PARKING PERMITS FOR ALL CONTRACTOR OWNED VEHICLES ON CAMPUS. PARKING PERMITS MAY BE OBTAINED FROM THE ISU DEPARTMENT OF PUBLIC SAFETY.
- CONTRACTOR IS RESPONSIBLE FOR COST TO REPAIR / REPLACE ANY CUT OR DAMAGED UTILITIES.**
- EXISTING A.C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE.
- SAWCUTS OF PAVEMENT AND CONCRETE SHALL REQUIRE WATER FOR DUST CONTROL.
- CONTRACTOR TO KEEP EXISTING COMMUNICATION AND POWER LINES IN TUNNEL FREE AND CLEAR OF DEBRIS..
- CONTRACTOR TO PROVIDE COVER/PROTECTION FOR ANY EXISTING HIGH VOLTAGE LINES WITHIN THE TUNNEL IN TRAYS OR LOOSE (NOT IN TRAYS) 5-FEET MINIMUM PAST END OF CONSTRUCTION.**
- CONTRACTOR CAN OBTAIN DRAWING CAD FILES OF THIS PROJECT FROM KELLER ASSOCIATES FOR PURPOSES RELATED TO CONSTRUCTION AND CONSTRUCTION STAKING.**

# IRRIGATION

- PROVIDE REGULAR AND ADEQUATE SUPPLEMENTAL AND/OR ALTERNATIVE IRRIGATION IF DOWN MORE THAN 7 DAYS TO ALL TURF AND PLANT LIFE AFFECTED BY WORK OPERATIONS THE ENTIRE COURSE OF THE WORK.
- RESTORE ALL LANDSCAPE DISTURBED BY CONSTRUCTION ACTIVITY TO PRIOR CONDITION OR BETTER. ADJUST IRRIGATION SYSTEM TO MATCH FINISHED CONDITIONS.
- LAY OUT IRRIGATION HEADS AND MAKE ANY MINOR ADJUSTMENTS REQUIRED DUE TO DIFFERENCES BETWEEN ACTUAL SITE CONDITIONS AND THE DRAWINGS. ANY DEVIATION IN LAYOUT SHALL BE WITHIN THE INTENT OF THE DRAWINGS AND APPROVED BY THE ENGINEER.
- LAY OUT ALL IRRIGATION EQUIPMENT USING AN APPROVED STAKING METHOD AND MAINTAIN THE STAKING OF APPROVED LAYOUT. ALL LAYOUTS SHALL BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO EQUIPMENT INSTALLATION.
- TAKE ALL REASONABLE INVESTIGATIVE ACTION AND PRECAUTIONS WHEN WORKING AROUND ANY UTILITY SYSTEM.
- ROUTING OF IRRIGATION LINES AS INDICATED ON DRAWINGS IS DIAGRAMMATIC. INSTALL LINES AND VARIOUS ASSEMBLIES TO CONFORM TO ACTUAL SITE CONDITIONS. WHENEVER POSSIBLE, PLACE ALL IRRIGATION EQUIPMENT IN PLANTED AREAS. IRRIGATION ELEMENTS DRAWN IN HARDSCAPE AREAS ON THE PLANS IS FOR GRAPHIC CLARITY ONLY AND IS MEANT TO BE PLACED IN PLANTED AREAS.
- ALL PVC PIPING SHALL BE SCHEDULE 40 WITH MATCHING FITTINGS.
- INSTALL ALL ASSEMBLIES SPECIFIED HEREIN ACCORDING TO THE RESPECTIVE DETAIL DRAWINGS OR AS SPECIFIED USING THE BEST STANDARD PRACTICES WITH PRIOR APPROVAL.
- ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES HORIZONTALLY FROM EACH OTHER AND 24 INCHES FROM OTHER UTILITIES.
- DIG TRENCHES AND SUPPORT PIPE DIRECTLY ON BOTTOM OF TRENCH. ALL TRENCHES TO BE STRAIGHT AND ALIGNED GENERALLY WITH WALKS, STREETS, AND BUILDINGS. LAY PIPE AT AN EVEN GRADE.
- PROVIDE MINIMUM PIPE COVER AS FOLLOWS:
 

PRESSURE MAINLINES 3" OR GREATER	20"
PRESSURE MAINLINES LESS THAN 3"	18"
NON-PRESSURE LATERAL LINES	18"
CONTROL WIRING	18"
- INITIAL BACKFILL ON ALL LINES TO BE FINE GRANULAR MATERIAL NOT LARGER THAN 3/8" MATERIAL.
- UNDER NO CIRCUMSTANCES SHALL VEHICLE WHEELS BE USED FOR COMPACTING SOIL.
- AFTER ALL IRRIGATION PIPE AND RISERS ARE IN PLACE AND CONNECTED, AND PRIOR TO INSTALLATION OF IRRIGATION HEADS AND CONTROL VALVES, APPLY FULL HEAD OF WATER TO FLUSH OUT SYSTEM.
- SPRINKLER HEADS AND ALL REMOTE CONTROL VALVES (RCV) SHALL BE INSTALLED ONLY AFTER FLUSHING OF THE SYSTEM HAS BEEN COMPLETED TO THE COMPLETE SATISFACTION OF THE ENGINEER AND OWNER.
- PIPING UNDER EXISTING PAVEMENT MAY BE INSTALLED BY JACKING, BORING, OR HYDRAULIC DRIVING.
- ALL NEW REMOTE CONTROL VALVES SHALL BE 2" UNLESS OTHERWISE NOTED. WIRING AS PER PLAN
- RUN (2) SPARE CONTROL AND (1) COMMON CONTROL WIRES MINIMUM FOR EACH GROUPING OF 3 OR MORE NEW REMOTE CONTROL VALVES UNLESS NOTED OTHERWISE.
- ALL POINTS-OF-CONNECTION TO INCLUDE A FILTER SCREEN, A PRESSURE REDUCING VALVE, A BACKFLOW ASSEMBLY, ISOLATION VALVES, AND QUICK COUPLER VALVES AS SHOWN.
- APPROVED MODIFICATIONS / ADJUSTMENTS FROM INDICATED PIPE SIZES SHALL BE SIZED AS FOLLOWS:
 

MAX FLOW	PIPE SIZE
9 GPM	1"
16 GPM	1.25"
22 GPM	1.5"
37 GPM	2"
52 GPM	2.5"
- ALL BELOW GRADE ELECTRICAL CONNECTIONS SHALL BE IN 10" OR LARGER VALVE BOXES.
- SUPPORT ALL PIPING IN ACCESSIBLE VAULTS WITH ADJUSTABLE PIPE SUPPORTS TO SUPPORT WEIGHT OF MAINTENANCE PERSONNEL STANDING ON PIPE.
- WHEN CONNECTING A NEW SUPPLY TO AN EXISTING SYSTEM, FLUSH ENTIRE SYSTEM, TEST TO ENSURE PROPER OPERATION, CLEAN AND ADJUST AS NECESSARY.
- ALL IRRIGATION CONTROL WIRE SPLICES TO BE MADE WITH APPROVED WATER PROOF WIRE SPLICE KIT AND HOUSED IN AN APPROVED IRRIGATION BOX. NO DIRECT BURY OF WIRE SPLICES ALLOWED.

## IDAHO STATE UNIVERSITY PARTS AND STANDARD PRACTICES (OR APPROVED EQUAL BY ENGINEER AND ISU)

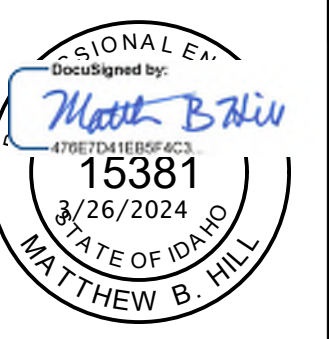
- |                           |   |
|---------------------------|---|
| 1. WIRE:                  | HUNTER ID1BLU DECODER WIRE (14 AWG TWISTED PAIR) (RUN EXTRA SET OF WIRES FOR EACH WIRE RUN) |
| 2. DECODERS: WIRE RUN)    | HUNTER ICD-100 (RUN EXTRA SET OF WIRES FOR EACH WIRE RUN)                                   |
| 3. WIRE CONNECTORS:       | HUNTER DBRY-6 WATTERPROOF WIRE CONNECTORS   |
| 4. CONTROLLERS:           | IRRITROL MC-E SERIES  |
| 5. ELECTRIC VALVES:       | HUNTER ICV 1" - 3"  |
| 6. SPRAY HEADS:           | TORO 570Z SERIES  |
| 7. ROTORS:                | HUNTER PGJ, I-20, I-25, 1-90  |
| 8. QUICK COUPLING VALVES: | RAIN BIRD 2 PIECE 3/4" 1"   |
| 9. QUICK COUPLING VALVES: | RAIN BIRD 1 PIECE 1 1/4"  |
| 10. PIPE:                 | SCHEDULE 40 PVC (1" MINIMUM)  |
| 11. DRIP LINE:            | NETAFIM (ONLY IF NECESSARY)   |
| 12. DESIGN:               | WATER IN IRRIGATION LINES SHALL NOT EXCEED 5.2 FPS.   |
- PIPE TO BE INSTALLED IN STRAIGHT RUNS WITHOUT BENDING OF THE PIPE. TRENCHES SHALL BE CUT IN STRAIGHT LINES TO ENSURE PIPE IS NOT BEING BENT. TRENCH DEPTH SHALL BE DUG AT MINIMUM OF 16" AND NOT TO EXCEED 20" MAXIMUM. ONE PIPE INSTALLED PER TRENCH OR A MINIMUM OF 6" SPACING BETWEEN PIPES SIDE BY SIDE. PIPE SHOULD NOT BE STACKED ON TOP OF EACH OTHER IN TRENCHES.
  - DIRECT BURY WIRE SHALL BE CABLED TOGETHER WITH TIES OR ELECTRICAL TAPE. WIRE SHALL BE PLACED NEXT TO PIPE AND SHOULD NOT RUN ON TOP OF ANY PIPE. EXTRA WIRES SHOULD BE PROVIDED AS PER PLAN.
  - DRIP ZONES SHALL HAVE PRESSURE REGULATORS OR REDUCER AND FILTERS INSTALLED. INSTALL BLOW-OUT HEAD AT THE END OF EACH DRIP LINE OR ZONE (DRIP ZONES NOT RECOMMENDED UNLESS NECESSARY)
  - ROTORS AND SPRAY HEADS SHALL BE INSTALLED ON SWING JOINTS .
  - INSTALL CONCRETE THRUST BLOCKS AT ALL CHANGES OF DIRECTION 45 DEGREES OR GREATER AN ALL MAINLINES 2" OR GREATER.
  - SPRINKLER HEADS AND ALL VALVES SHALL BE INSTALLED ONLY AFTER THOROUGH WATER FLUSHING OF THE SYSTEM IS COMPLETE.
  - PIPES ARE TO BE BEDDED AND COVERED WITH GRANULAR MATERIAL NO LARGER THAN 3/8" IN DIAMETER. TRENCHES SHOULD BE WATER SETTLED.
  - NO PVC PIPE MAY BE PULLED. PVC PIPE IS TO BE TRENCHED AND BACKFILLED.

# STORM & EROSION CONTROL

- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- ON SLOPING AREAS, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MITIGATE ANY POSSIBLE EROSION PROBLEMS IN TRENCHES DUE TO STORM WATER THAT MIGHT OCCUR DURING OR AFTER CONSTRUCTION AS DIRECTED OR APPROVED BY ENGINEER.
- DURING CONSTRUCTION; THE CONTRACTOR IS FULLY RESPONSIBLE FOR INTERIM PROVISIONS FOR PASSAGE OF IRRIGATION AND STORM WATER. NO SUPPLEMENTAL COMPENSATION WILL BE MADE FOR WET CONDITIONS OR FLOW DIVERSIONS.
- THE CONTRACTOR SHALL ALSO BE REQUIRED TO TAKE ALL PRECAUTIONS NECESSARY TO INSURE THAT NO STORM WATER/SEDIMENT AND/OR CONSTRUCTION DEBRIS ARE RELEASED FROM THE SITE. ANY RELEASES SHALL BE CLEANED AND MITIGATED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO PREPARE AND SUBMIT EROSION CONTROL PLAN TO OWNER AND ENGINEER.
- CONTRACTOR TO MEET CITY OF POCATELLO AND EPA EROSION AND SEDIMENTATION CONTROL PLAN (ESCP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
- CONTRACTOR RESPONSIBLE FOR ANY REQUIRED PERMITS WITH THE CITY OF POCATELLO.



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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY

GENERAL NOTES

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
 G-002



### EXISTING TOPOGRAPHY

	2460	TOPOGRAPHIC CONTOUR
	EG	EDGE OF GRAVEL
	EP	EDGE OF PAVEMENT
		CURB & GUTTER, SIDEWALK & DROP INLET
	X	FENCE (BARBED WIRE OR OTHER)
	O	FENCE (CHAINLINK)
		DITCH FLOWLINE
	TP-31	TEST PIT
		SIGN
		BUILDING OR STRUCTURE
		TRAFFIC MARKING (STOP BAR)
		TRAFFIC MARKING (CROSS WALK)
		EXISTING TUNNEL

### EXISTING UTILITY

	8"W	WATERLINE & VALVE
	12"SS	SANITARY SEWER LINE & MANHOLE
	4"SS	SANITARY SEWER SERVICE & CLEANOUT
	PS	PRESSURE SEWER LINE & VALVE VAULT
	10"SD	STORM DRAIN LINE & MANHOLE
	8"PI	PRESSURE IRRIGATION & VALVE
	GI	GRAVITY IRRIGATION & MANHOLE
	OHP	OVERHEAD POWER LINE & POWER POLE
	UGP	UNDERGROUND POWER LINE
		SIGNAL POLE
		LIGHT POLE
	NG	NATURAL GAS LINE
	FO	FIBER OPTIC LINE
	T	TELEPHONE LINE & RISER
	CABLE	CABLE LINE & RISER

### PROPOSED SITE (CONT.)

		NEW TUNNEL
		SOD
		MULCH
		CHAINLINK FENCE & GATE
	X	FENCE
	EP	EDGE OF PAVEMENT
	EG	EDGE OF GRAVEL
		SIGN
		TRAFFIC MARKING (STOP BAR)
		TRAFFIC MARKING (CROSS WALK)
	X	TEMPORARY SITE FENCING

### PROPOSED UTILITY (CONT.)

	8"PS	PRESSURE SEWER & VALVE VAULT
	18"SD	STORM DRAIN LINE, INLET & CATCH BASIN
	12"SD	STORM DRAIN LINE & MANHOLE W/ VENTED LID
		JOINT TRENCH IN PROFILE
		CABLE & TELEPHONE RISERS
	JT	JOINT TRENCH & DEVICE
		JUNCTION BOX & DUCT BANK
	NG	NATURAL GAS LINE & METER
	NG	NATURAL GAS LINE & RISER
	NG	NATURAL GAS LINE & VALVE
	UGP	UNDERGROUND POWER
	OHP	OVERHEAD POWER & POLE
		LIGHT POLE
	TEL	TELEPHONE LINE & RISER
	FO	FIBER OPTIC LINE & VAULT
	T/D	TELEPHONE DATA LINE
	CABLE	CABLE & TV RISER

### PROPERTY & CONTROL

	CP #203	SURVEY CONTROL POINT
	BM-#1	BENCHMARK
		FOUND BRASS CAP
		FOUND ALUMINUM CAP
		FOUND 5/8" STEEL PIN
		SET 5/8" STEEL PIN W/CAP
		FOUND 1/2" STEEL PIN
		SET 1/2" STEEL PIN W/CAP
		CALCULATED POINT
	WC	WITNESS CORNER
		EASEMENT - UTILITY
		EASEMENT - TEMPORARY
		EASEMENT - SETBACK
		PROJECT BOUNDARY
	P/L	PROPERTY LINES
		SECTION LINES
	R/W	PREScriptive RIGHT OF WAY
	ROW	DEDICATED RIGHT OF WAY
	( )	DATA OF RECORD
	6/7	QUARTER SECTION - NOT FOUND
	5	CENTER SECTION
	5/6/7/8	SECTION CORNER - FOUND

### PROPOSED GRADING

	2457	TOPOGRAPHIC CONTOUR
		RIDGELINE
	1.50%	DRAINAGE ARROW & SLOPE
	57.73	SPOT ELEVATION
		SWALE FLOWLINE

### PROPOSED MISCELLANEOUS

		CLEARING AND GRUBBING
		CONSTRUCTION PHASE LIMITS
	A A A A A A A	DEMOLITION/ABANDON

### PROPOSED SITE

		6" VERTICAL CURB, GUTTER, SIDEWALK & INLET
		6" VERTICAL CUT CURB & GUTTER
		6" REVERSE CURB & GUTTER
		6" REVERSE CUT CURB & GUTTER
		IMBEDDED CURB
		BUILDING OR STRUCTURE (SOLID)
		CONCRETE (AR-CONC)
		ASPHALT (DOTS)
		GRAVEL SURFACE (AR-SAND)
		GRAVEL SECTION (GRAVEL)
		LANDSCAPE ROCK (AGGREGATE)

### PROPOSED UTILITY

	H	FLANGED FITTING TYPES
	E	MECHANICAL JOINT FITTING TYPES
	8"W	BEND
	8"W	REDUCING TEE
		TEE
		REDUCER
		FLANGE TO MECHANICAL JOINT COUPLING
		CROSS
		CAP W/BLIND FLANGE
		CHECK VALVE
		GATE VALVE
		BUTTERFLY VALVE
		BLOW-OFF VALVE
		RESTRAINED FITTING
		WATER SERVICE LINE & METER
		FIRE HYDRANT
	8" FIRE	FIRE LINE
	8"W	WATERLINE
		MONITORING WELL
		LOCATION WIRE BOX
		NON-FREEZE YARD HYDRANT
	8"PI	PRESSURE IRRIGATION, TEE & GATE VALVE
	2"PI	PRESSURE IRRIGATION SERVICE
	8"GI	GRAVITY IRRIGATION & STRUCTURE
	8"SS	SANITARY SEWER & MANHOLE W/ VENTED LID
	4"SS	SANITARY SEWER SERVICE & CAP
	4"SS	SANITARY SEWER SERVICE & CLEANOUT

### DEMOLITION HATCH LEGEND

		ASPHALT DEMO
		TUNNEL DEMO
		CURB DEMO
		SOD DEMO
		CONCRETE SIDEWALK DEMO
		MULCH DEMO

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NO.	REVISIONS	DATE

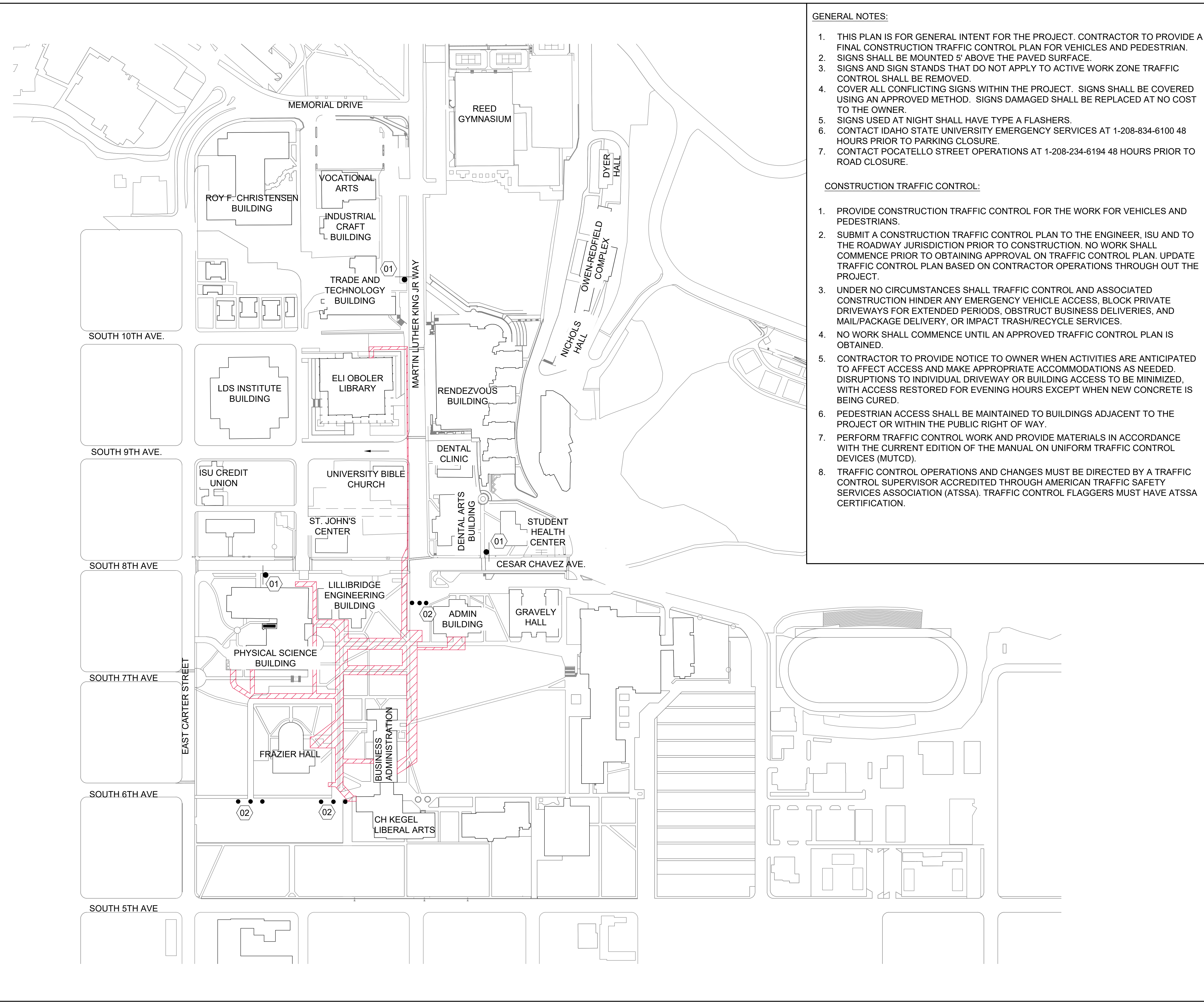
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
SYMBOLS & LINE LEGEND

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. G-003





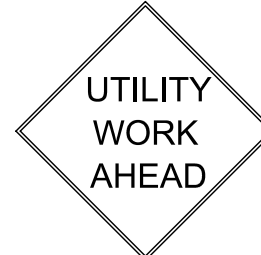

**GENERAL NOTES:**

1. THIS PLAN IS FOR GENERAL INTENT FOR THE PROJECT. CONTRACTOR TO PROVIDE A FINAL CONSTRUCTION TRAFFIC CONTROL PLAN FOR VEHICLES AND PEDESTRIAN.
2. SIGNS SHALL BE MOUNTED 5' ABOVE THE PAVED SURFACE.
3. SIGNS AND SIGN STANDS THAT DO NOT APPLY TO ACTIVE WORK ZONE TRAFFIC CONTROL SHALL BE REMOVED.
4. COVER ALL CONFLICTING SIGNS WITHIN THE PROJECT. SIGNS SHALL BE COVERED USING AN APPROVED METHOD. SIGNS DAMAGED SHALL BE REPLACED AT NO COST TO THE OWNER.
5. SIGNS USED AT NIGHT SHALL HAVE TYPE A FLASHERS.
6. CONTACT IDAHO STATE UNIVERSITY EMERGENCY SERVICES AT 1-208-834-6100 48 HOURS PRIOR TO PARKING CLOSURE.
7. CONTACT POCATELLO STREET OPERATIONS AT 1-208-234-6194 48 HOURS PRIOR TO ROAD CLOSURE.




**CONSTRUCTION TRAFFIC CONTROL:**

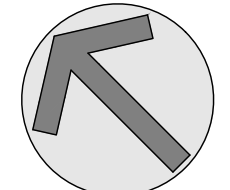
1. PROVIDE CONSTRUCTION TRAFFIC CONTROL FOR THE WORK FOR VEHICLES AND PEDESTRIANS.
2. SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN TO THE ENGINEER, ISU AND TO THE ROADWAY JURISDICTION PRIOR TO CONSTRUCTION. NO WORK SHALL COMMENCE PRIOR TO OBTAINING APPROVAL ON TRAFFIC CONTROL PLAN. UPDATE TRAFFIC CONTROL PLAN BASED ON CONTRACTOR OPERATIONS THROUGH OUT THE PROJECT.
3. UNDER NO CIRCUMSTANCES SHALL TRAFFIC CONTROL AND ASSOCIATED CONSTRUCTION HINDER ANY EMERGENCY VEHICLE ACCESS, BLOCK PRIVATE DRIVEWAYS FOR EXTENDED PERIODS, OBSTRUCT BUSINESS DELIVERIES, AND MAIL/PACKAGE DELIVERY, OR IMPACT TRASH/RECYCLE SERVICES.
4. NO WORK SHALL COMMENCE UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS OBTAINED.
5. CONTRACTOR TO PROVIDE NOTICE TO OWNER WHEN ACTIVITIES ARE ANTICIPATED TO AFFECT ACCESS AND MAKE APPROPRIATE ACCOMMODATIONS AS NEEDED. DISRUPTIONS TO INDIVIDUAL DRIVEWAY OR BUILDING ACCESS TO BE MINIMIZED, WITH ACCESS RESTORED FOR EVENING HOURS EXCEPT WHEN NEW CONCRETE IS BEING CURED.
6. PEDESTRIAN ACCESS SHALL BE MAINTAINED TO BUILDINGS ADJACENT TO THE PROJECT OR WITHIN THE PUBLIC RIGHT OF WAY.
7. PERFORM TRAFFIC CONTROL WORK AND PROVIDE MATERIALS IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
8. TRAFFIC CONTROL OPERATIONS AND CHANGES MUST BE DIRECTED BY A TRAFFIC CONTROL SUPERVISOR ACCREDITED THROUGH AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). TRAFFIC CONTROL FLAGGERS MUST HAVE ATSSA CERTIFICATION.

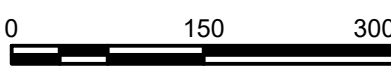
**SHEET KEYNOTES**

- 01  W 21-7 (48" x 48")
- 02  R 11-2 (48" x 30") TYPE III BARCADE

**LEGEND**

-  CONSTRUCTION LIMITS
-  SIGN
-  TRAFFIC CONTROL DRUM





**KELLER ASSOCIATES**

305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146

DESIGNED BY: *Matthew B. Hill*

ATSSA CERTIFIED  
15381  
3/26/2024  
STATE OF IDAHO  
MATTHEW B. HILL

NO.	REVISIONS	DATE

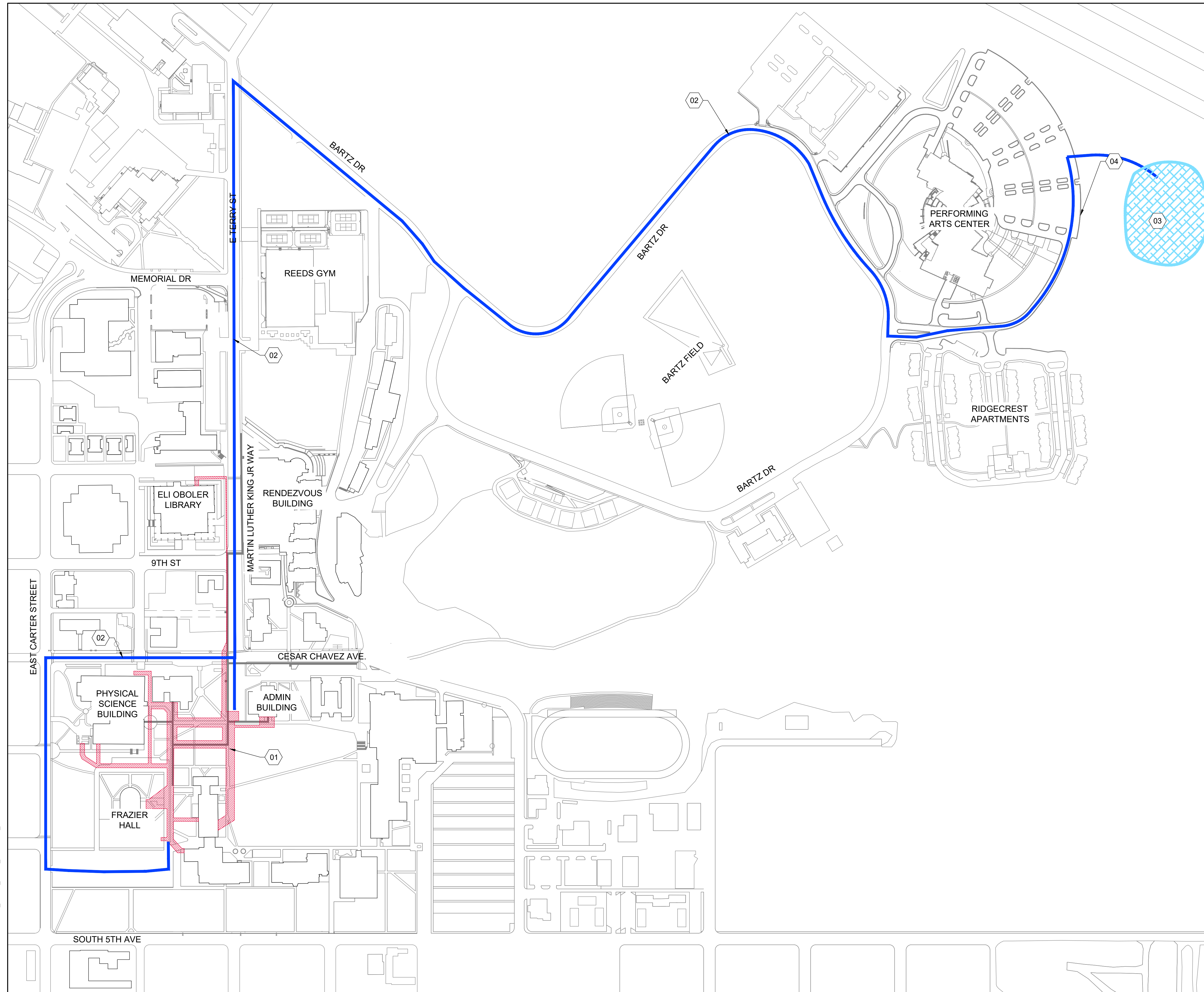
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
VEHICULAR TEMPORARY TRAFFIC CONTROL PLAN

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. G-004





### SHEET KEYNOTES

- 01 PROJECT SITE AREA
- 02 TRUCK ROUTE (BOTH DIRECTIONS)
- 03 MATERIAL STORAGE AREA
- 04 PROVIDE CURB PROTECTION

**KELLER ASSOCIATES**  
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

### SHEET NOTES

1. ON SITE STORAGE OF EXCAVATED MATERIAL WILL NOT BE ALLOWED.
2. ALL MATERIAL TO BE HAULED OFF SITE FOR TEMPORARY STORAGE.
3. SUITABLE STORED MATERIAL TO BE USED AS BACKFILL TO BE HAULED BACK TO SITE.
4. UNSUITABLE MATERIAL TO BE HAULED TO A SUITABLE OFF SITE LOCATION FOR DISPOSAL.
5. STAGING AND STOCK PILING ARE SHALL BE RETURNED TO EXISTING GRADING AND CONDITION PRIOR TO PROJECT COMPLETION.

IDAHO STATE UNIVERSITY  
 OFF SITE MATERIALS STORAGE LOCATION AND TRUCKING ROUTE

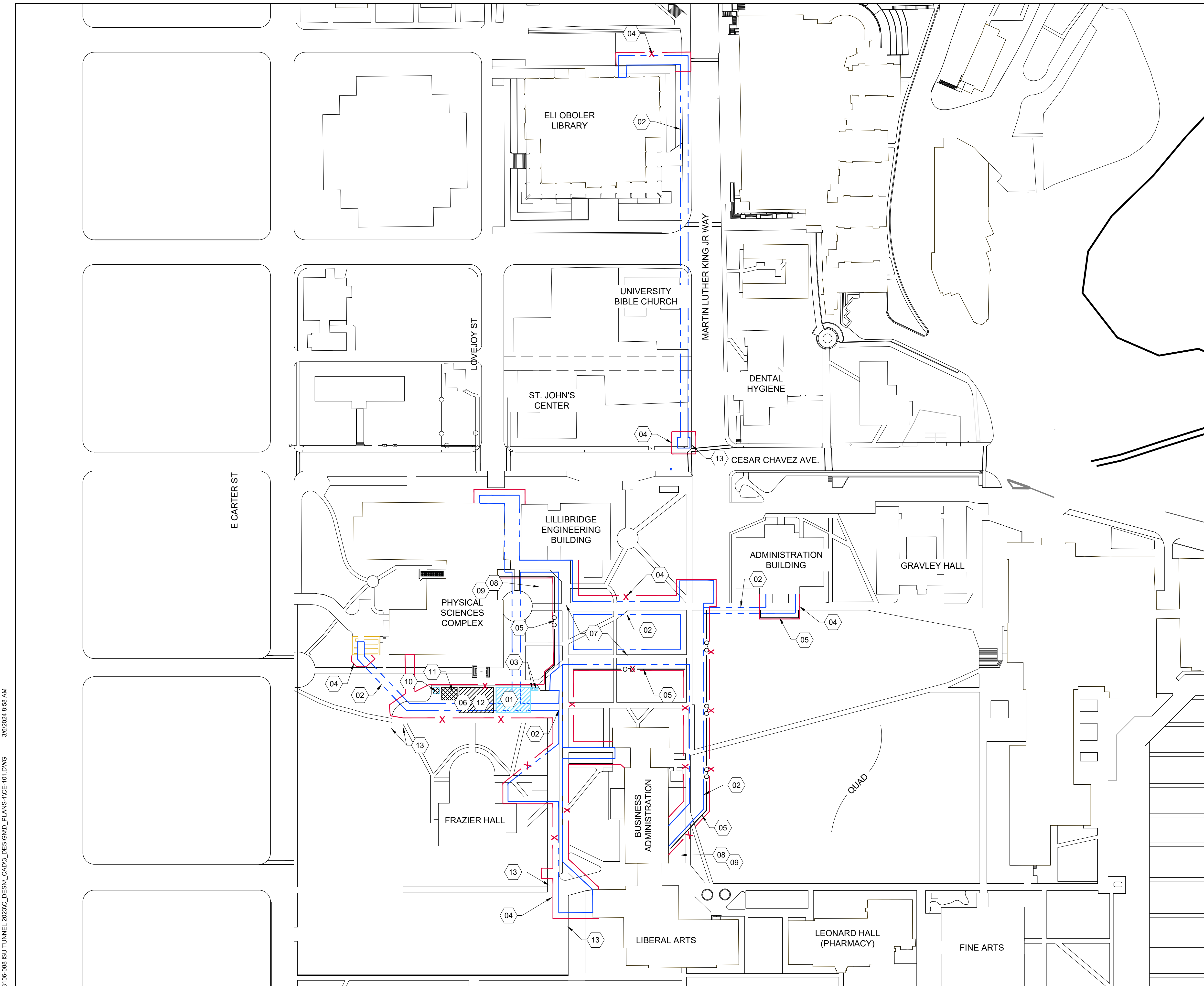
### LEGEND

CONSTRUCTION LIMITS

1-1/2" = 100'

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. G-005





### SHEET KEYNOTES

01	STAGING & LAY DOWN AREA, RE: BMP-37 & 44
02	CONSTRUCTION LIMITS
03	PORTA POTTY, BMP-50
04	SITE FENCING
05	SILT FENCE, RE: BMP-65 RE: A1/CE-501
06	VEHICLE / EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR, RE: BMP-84
07	DUST CONTROL, ENTIRE SITE, RE: BMP-43
08	INLET PROTECTION SACK, RE: BMP-13, A3/CE-501
09	INLET PROTECTION AT GUTTER OR INLET, RE: BMP-74, B2/CE-501
10	DUMPSTER, RE: BMP-51
11	DEDICATED FUEL AREA, RE: BMP-83
12	STOCKPILE SEDIMENT/SOIL, RE: BMP-9 (LOCATION VARIES, CONTRACTOR TO COORDINATE WITH ISU)
13	SANDBAG SEDIMENT TRAP, BMP-70, RE: B1/CE-501

- ### EROSION CONTROL NOTES
- ALL STANDARDS CALLED OUT AS "BMP" ARE PER CURRENT COPY OF THE STATE OF IDAHO CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES.
  - THE AREA OF DISTURBANCE IS GREATER THAN 1-ACRE. THE CONTRACTOR TO FILE A NOTICE OF INTENT (NOI) WITH THE ENVIRONMENTAL PROTECTION AGENCY. THE CONTRACTOR WILL NEED TO FILE THE NOI BEFORE COMMENCING CONSTRUCTION ACTIVITIES.
  - CONSTRUCTION SITE SHALL CONFORM TO DUST CONTROL MANAGEMENT PER BMP-7.
  - BMP-13: INLET PROTECTION METHOD SHALL BE BELOW GRADE, SUCH AS A DROP INLET INSERT WITH SEDIMENT RESERVOIR AND OVERFLOW PROTECTION, WHEN POSSIBLE. IF APPLICABLE, INLET PROTECTION ABOVE GRADE SHALL NOT INTERFERE WITH TRAFFIC.
  - SILT FENCE, WATTLE, INLET PROTECTION, ETC. TO STAY IN PLACE THROUGH END OF PROJECT.
  - EXISTING UTILITIES SHOWN IN APPROXIMATE LOCATION. CONTACT DIG LINE AT 1-800-342-1585 48 HOURS IN ADVANCE TO LOCATE UTILITIES PRIOR TO COMMENCING WORK. (RE: EXISTING SITE PLAN SHEETS V-100 THRU V-112)
  - CONTRACTOR SHALL CLEAN ALL EXISTING ROADWAYS ON A REGULAR BASIS TO ENSURE NO MUD IS TRACKED OFF SITE.
  - CONTRACTOR TO NOTIFY OWNER AND ENGINEER IF ANY HAZARDOUS MATERIALS, OR MATERIALS OF A QUESTIONABLE NATURE ARE FOUND. WORK TO BE STOPPED IN THOSE AREAS UNTIL MATERIAL IS DEEMED SAFE OR A PLAN FOR REMOVAL HAS BEEN MADE.

- ### GENERAL SHEET NOTES
- STAGING & STOCK PILING AREA SHALL BE RETURNED TO EXISTING GRADING AND CONDITION PRIOR TO PROJECT COMPLETION.
  - CONTRACTOR TO PROVIDE AN EROSION CONTROL AND SEDIMENTATION PLAN MEETING CITY OF POCATELLO REQUIREMENTS.
  - CONTRACTOR TO COORDINATE WITH ISU FOR FINAL LOCATION OF SITE FENCING.
  - CONCRETE WASTE TO BE DISPOSED OFF SITE.

1-1/2 Inches

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(208) 238-2146

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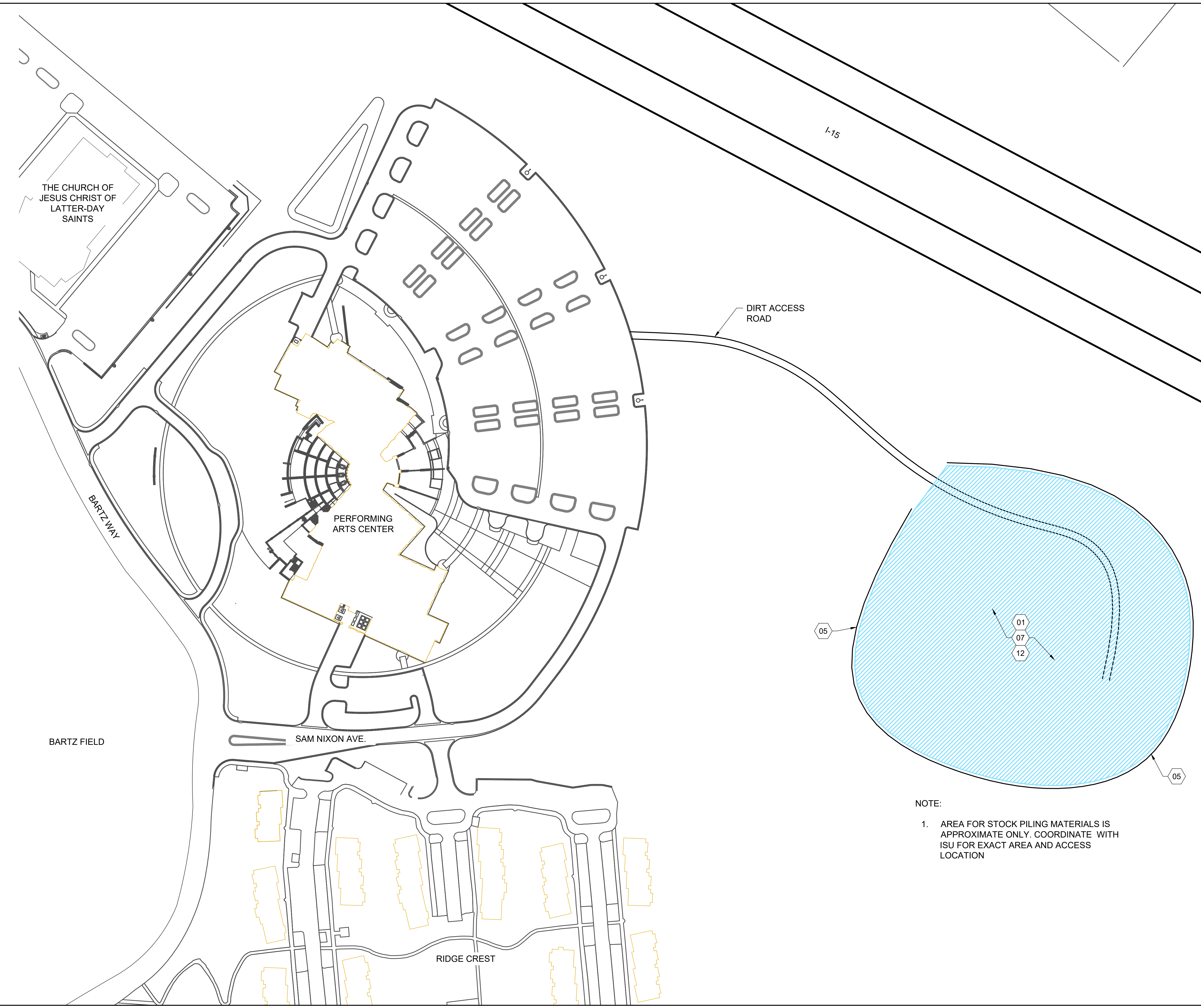
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
STAGING, EROSION &  
SEDIMENTATION CONTROL PLAN

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO.  
208106-088  
SHEET NO.  
**CE-101**





### SHEET KEYNOTES

- 01 STAGING & STOCKPILE AREA, RE: BMP-37 & 44
- 02 CONSTRUCTION LIMITS
- 03 PORTA POTTY, BMP-50
- 04 SITE FENCING
- 05 SILT FENCE, RE: BMP-65 RE: A1/CE-501
- 06 VEHICLE / EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR, RE: BMP-84
- 07 DUST CONTROL, ENTIRE SITE, RE: BMP-43
- 08 INLET PROTECTION SACK, RE: BMP-13, A3/CE-501
- 09 INLET PROTECTION AT GUTTER OR INLET, RE: BMP-74, B2/CE-501
- 10 DUMPSTER, RE: BMP-51
- 11 DEDICATED FUEL AREA, RE: BMP-83
- 12 STOCKPILE SEDIMENT/SOIL, RE: BMP-9 (LOCATION VARIES, CONTRACTOR TO COORDINATE WITH ISU)
- 13 SANDBAG SEDIMENT TRAP, BMP-70, RE: B1/CE-501

### EROSION CONTROL NOTES

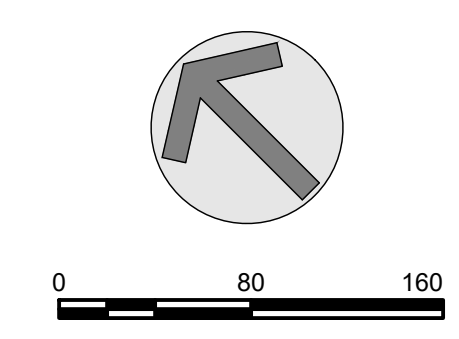
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### GENERAL SHEET NOTES

1. STAGING & STOCK PILING AREA SHALL BE RETURNED TO EXISTING GRADING AND CONDITION PRIOR TO PROJECT COMPLETION.
2. CONTRACTOR TO PROVIDE AN EROSION CONTROL AND SEDIMENTATION PLAN MEETING CITY OF POCATELLO REQUIREMENTS.
3. CONTRACTOR TO COORDINATE WITH ISU FOR FINAL LOCATION OF SITE FENCING.
4. CONCRETE WASTE TO BE DISPOSED OFF SITE.

NOTE:

1. AREA FOR STOCK PILING MATERIALS IS APPROXIMATE ONLY. COORDINATE WITH ISU FOR EXACT AREA AND ACCESS LOCATION



**KELLER ASSOCIATES**  
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 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

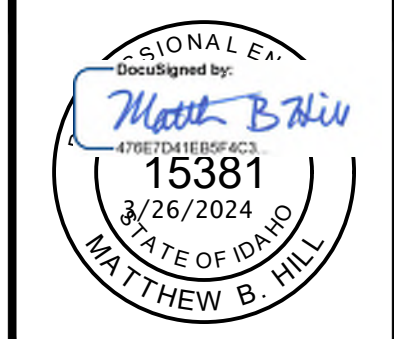
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 STAGING, EROSION & SEDIMENTATION CONTROL PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. CE-102





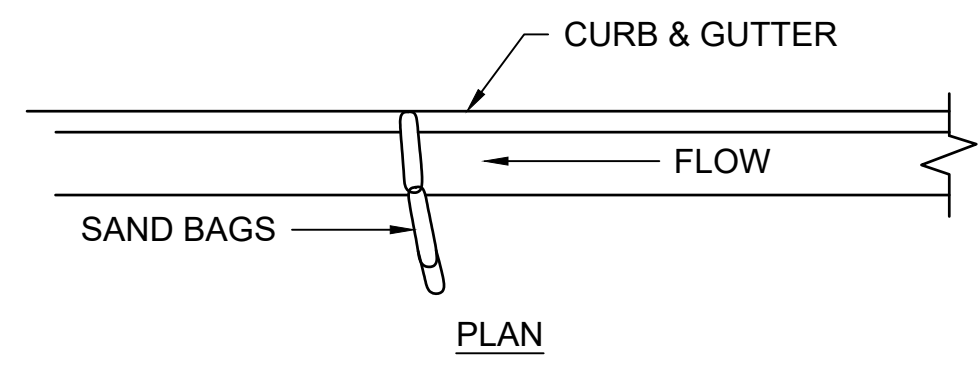
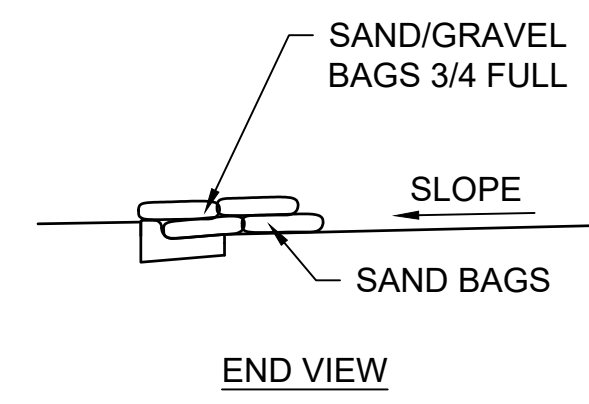
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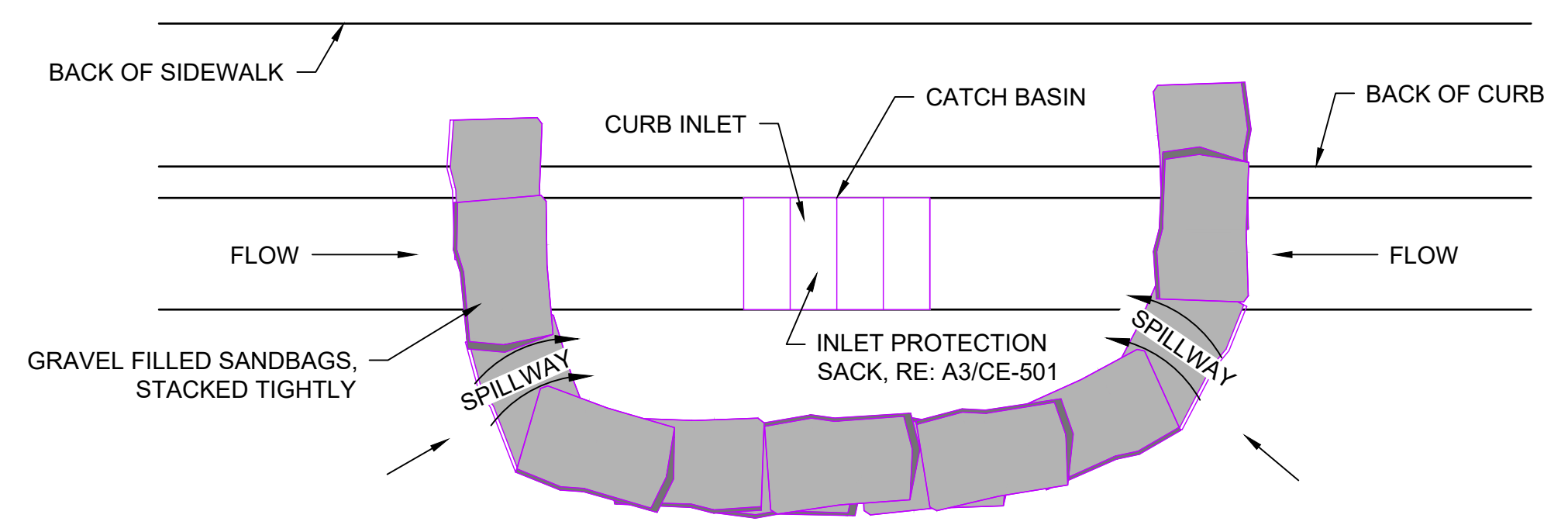
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EROSION & SEDIMENT CONTROL DETAILS

DRAWN: KJM CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. CE-501

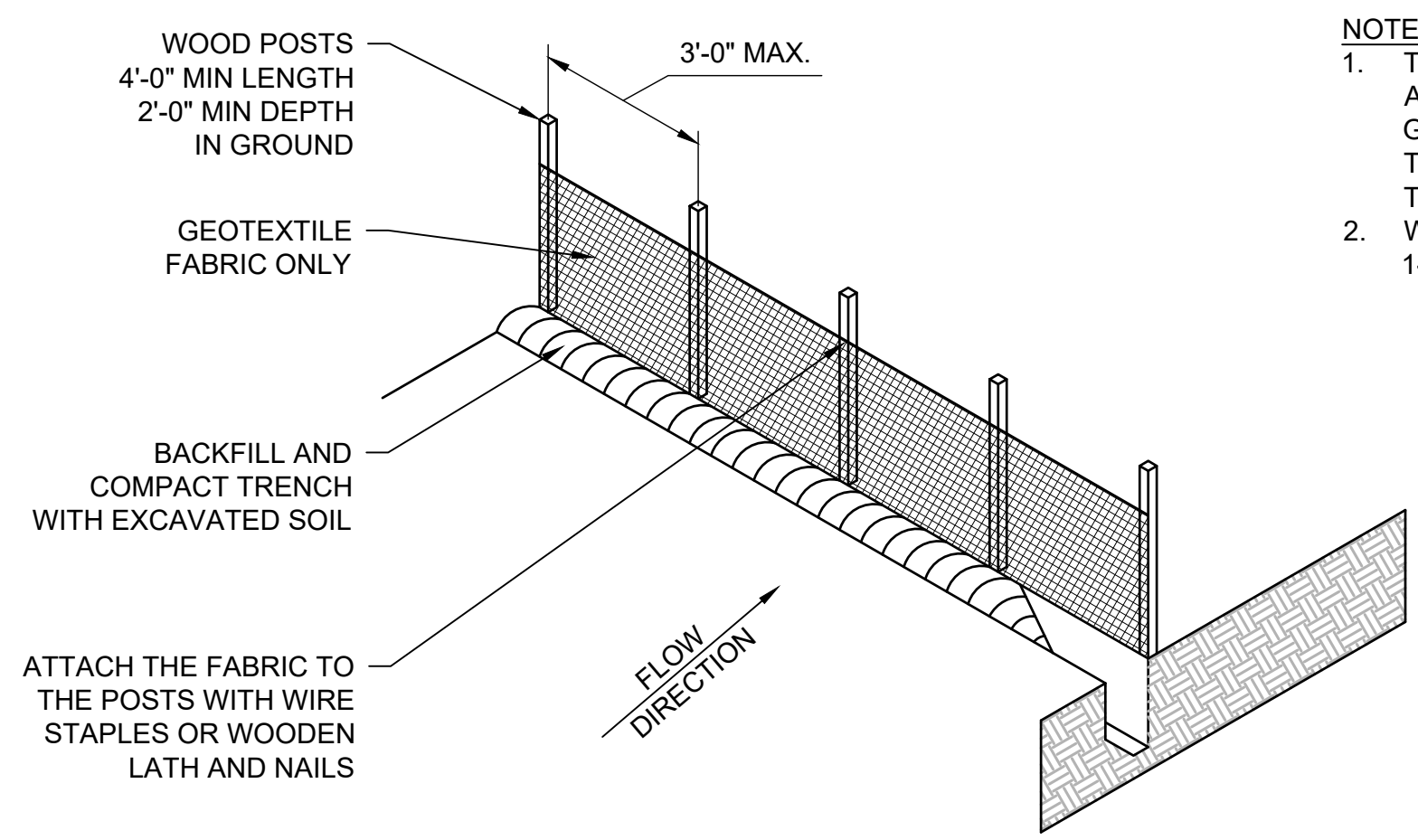


**B1** SANDBAG SEDIMENT TRAP  
 N.T.S.



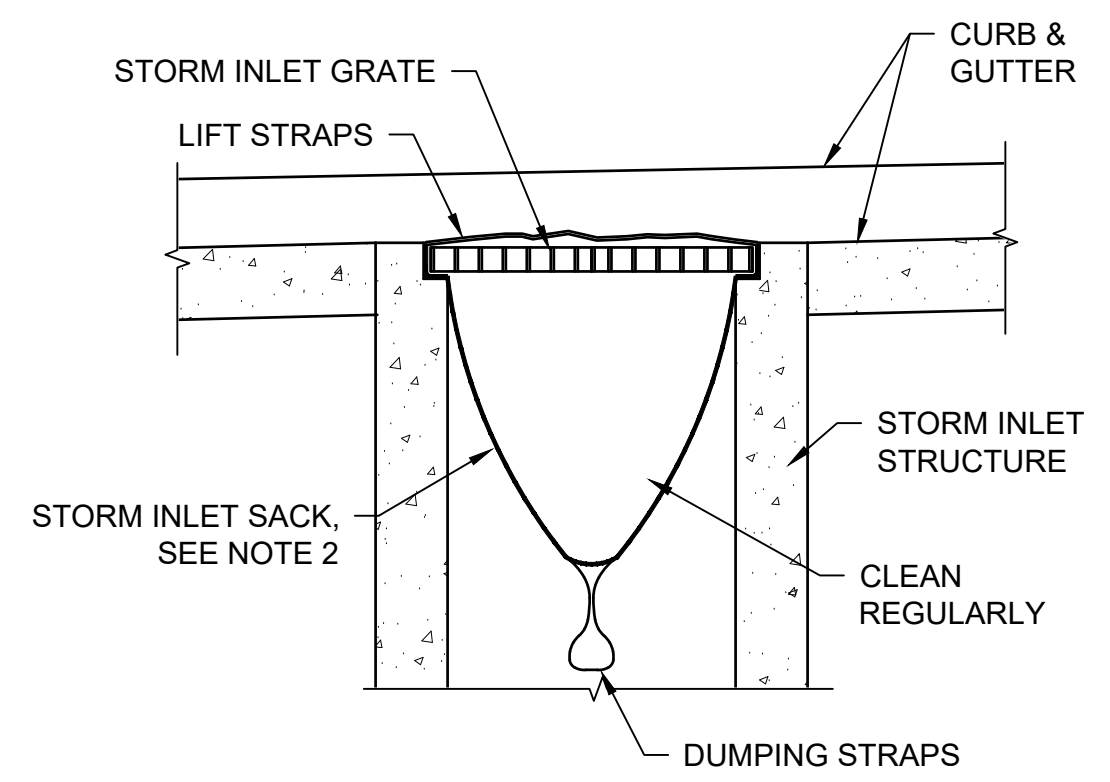
- NOTES:**
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  2. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
  3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
  4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**B2** INLET PROTECTION  
 N.T.S.



- NOTES:**
1. TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
  2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1-1/8" x 1-1/8" OAK OR HICKORY.

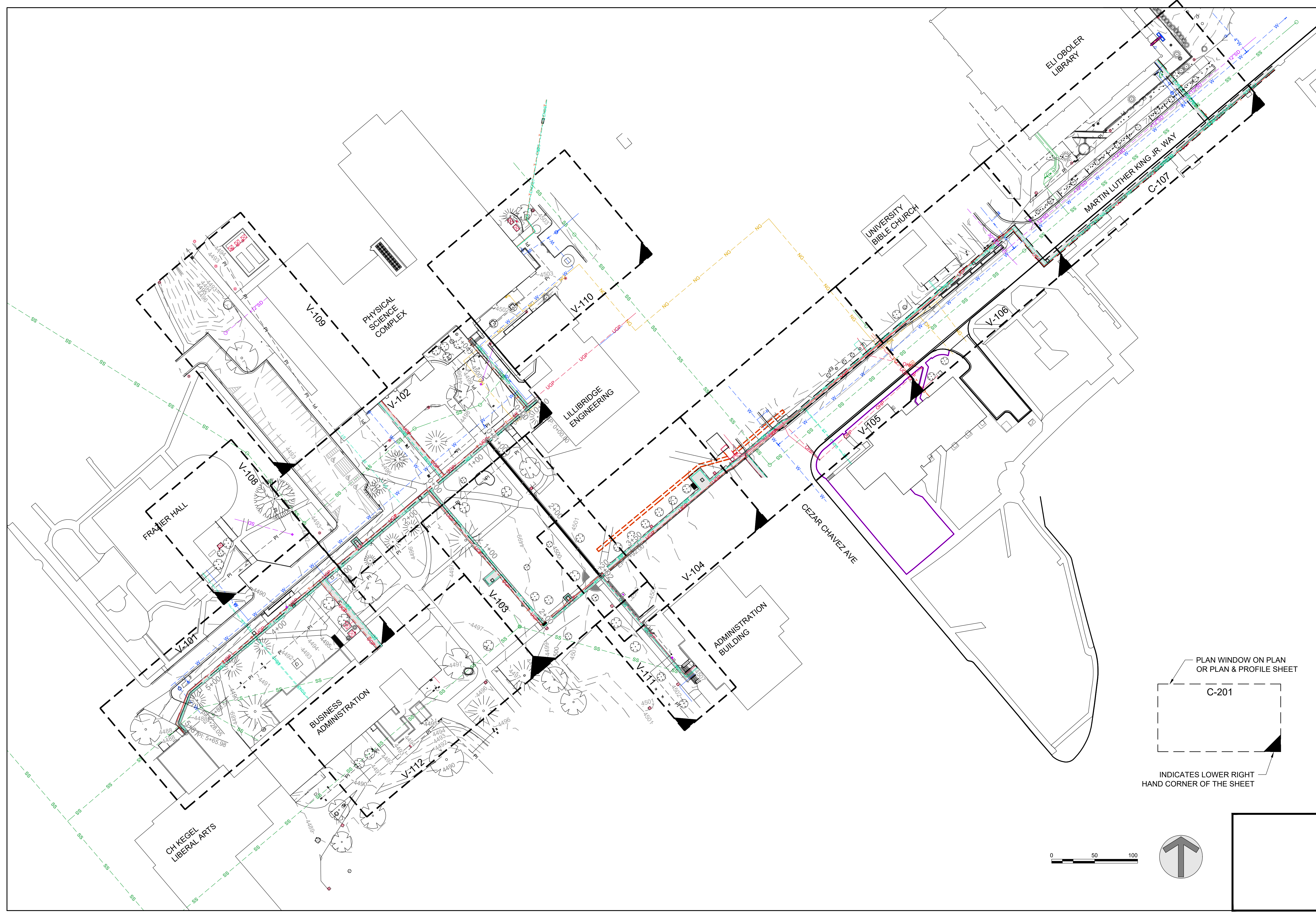
**A1** SILT FENCE  
 N.T.S.



- NOTE:**
1. WEEKLY AND AFTER STORM EVENT, LOOK INTO DANDY SACK. IF CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED.
  2. STORM INLET SACK, "DANDY SACK" OR APPROVED EQUAL, INSTALL PER MANUFACTURER RECOMMENDATIONS.

**A3** INLET PROTECTION SACK  
 N.T.S.





**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING OVERALL SITE PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-100



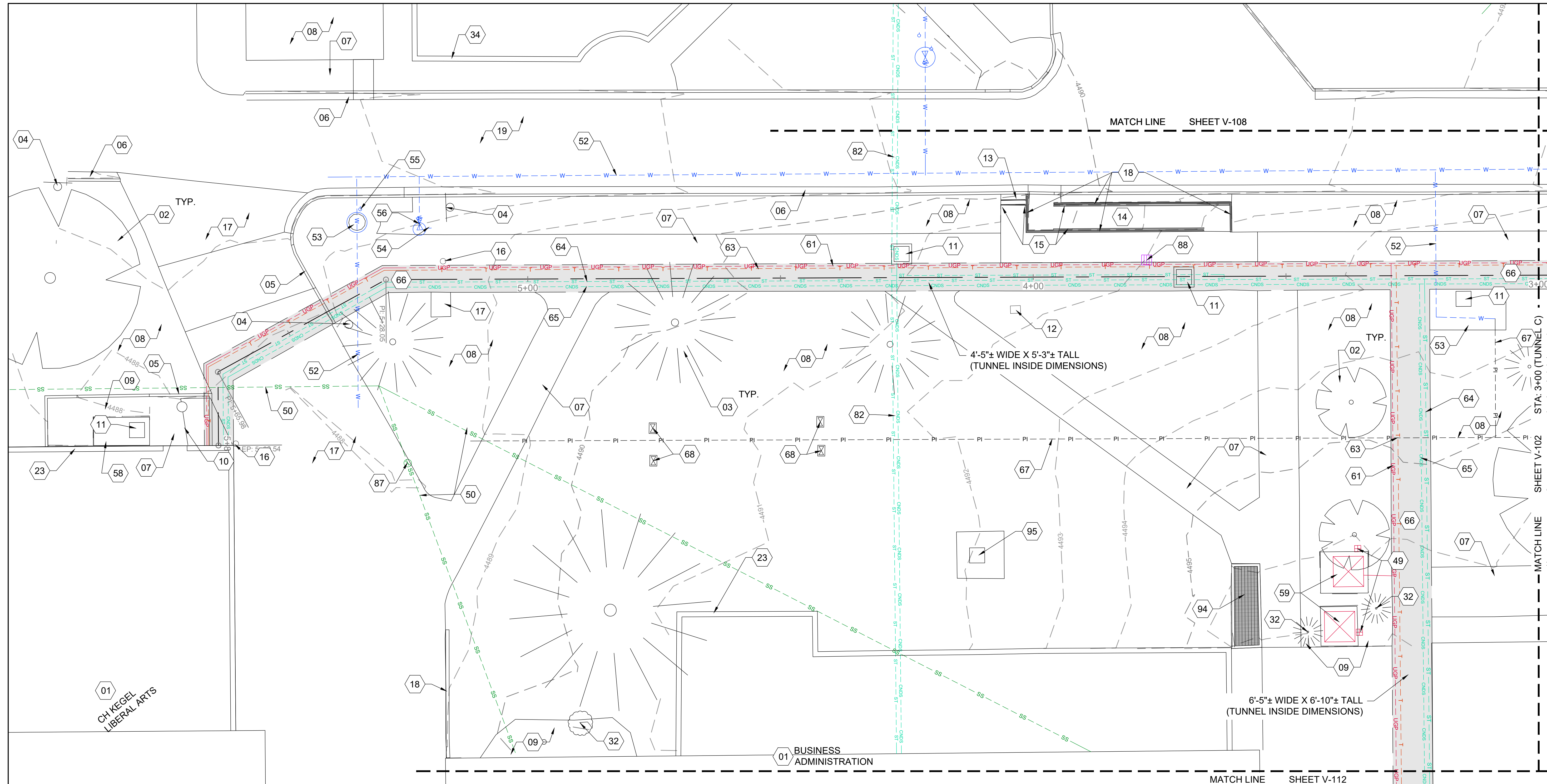
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
EXISTING SITE PLAN

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO.  
208106-088  
SHEET NO.  
**V-101**



**SHEET KEYNOTES**

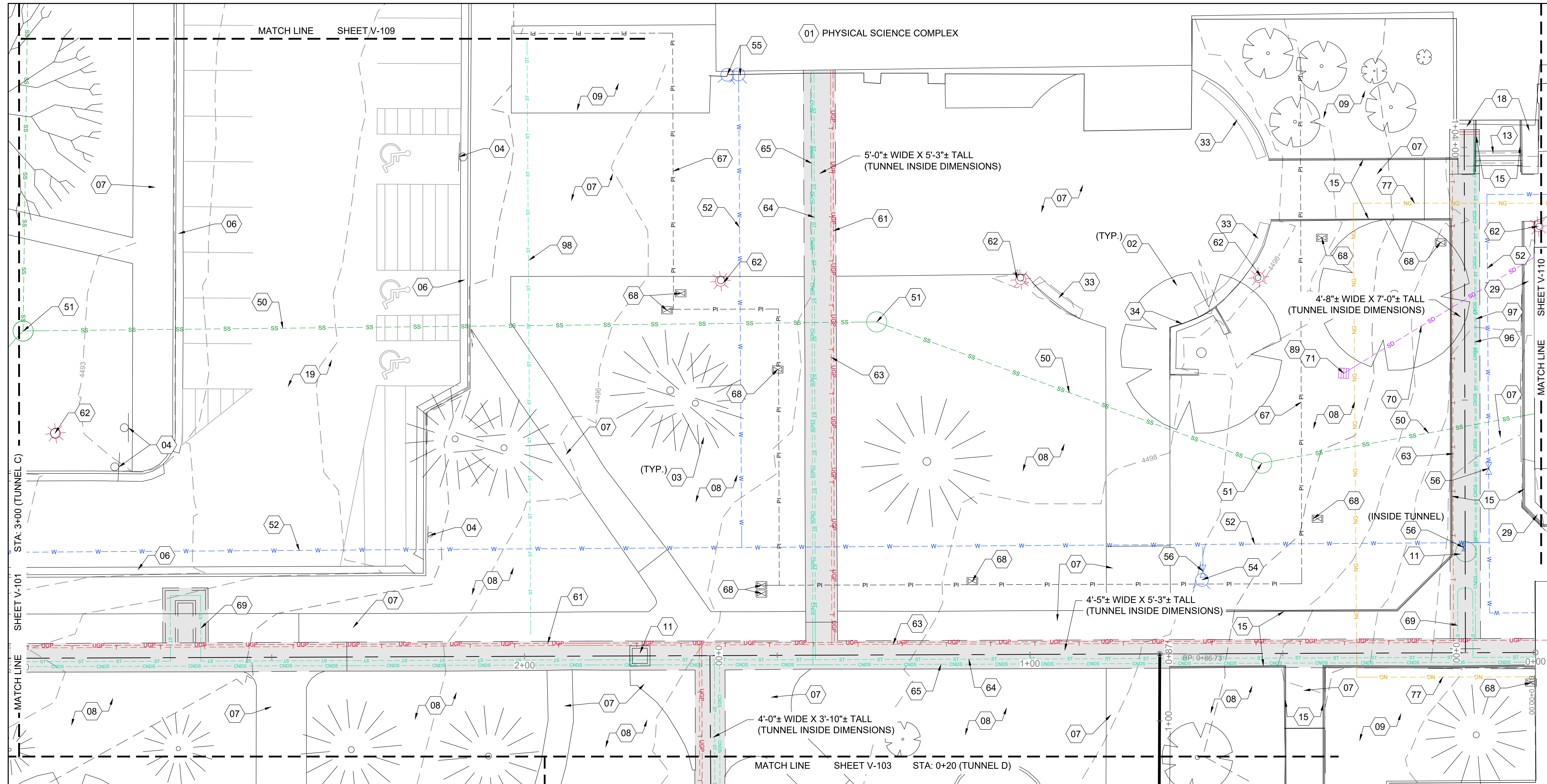
01 BUILDING	17 CONCRETE PAVING	63 UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
02 DECIDUOUS TREE	18 CONCRETE RETAINING WALL	64 STEAM LINE (LOCATED IN TUNNEL)
03 CONIFEROUS TREE	19 ASPHALT PAVING	65 CONDENSATE LINE (LOCATED IN TUNNEL)
04 PARKING SIGN	23 ENCLOSURE WALL	66 TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
05 CURB WALL	32 SHRUB	67 PRESSURE IRRIGATION MAIN LINE
06 CURB & GUTTER	34 BLOCK RETAINING WALL	68 IRRIGATION VALVE
07 CONCRETE SIDEWALK	49 ELECTRICAL METER	82 STEAM AND CONDENSATE BANK TO BUILDING
08 LANDSCAPING, SOD	50 SANITARY SEWER LINE	87 SANITARY SEWER CLEANOUT
09 LANDSCAPING, MULCH	53 WATER VAULT	88 STEAM TUNNEL VENT
10 CHAIN LINK FENCE	54 FIRE HYDRANT	94 VENTILATION SHAFT
11 ACCESS HATCH	55 FIRE DEPARTMENT CONNECTION	95 VAULT (UNKNOWN)
12 MEMORIAL MARKER	56 WATER VALVE	
13 CONCRETE STAIRS	58 ELECTRICAL VAULT	
14 ADA RAMP	59 ELECTRICAL TRANSFORMER	
15 RAILING	61 UNDERGROUND POWER (LOCATED IN TUNNEL)	
16 BOLLARD		

**EXISTING SITE NOTES**

- STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
- PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
- TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
- FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.







NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

SHEET KEYNOTES		
01 BUILDING	50 SANITARY SEWER LINE	77 NATURAL GAS LINE
02 DECIDUOUS TREE	51 SANITARY SEWER MANHOLE	89 STORM DRAIN INFILTRATION DRY WELL
03 CONIFEROUS TREE	52 WATER LINE	96 ABANDONED CONDENSATE LINE (LOCATED IN TUNNEL)
04 PARKING SIGN	54 FIRE HYDRANT	97 ABANDONED STEAM LINE (LOCATED IN TUNNEL)
06 CURB & GUTTER	55 FIRE DEPARTMENT CONNECTION	98 ABANDONED STEAM LINE (FIELD VERIFY LOCATION AND DEPTH)
07 CONCRETE SIDEWALK	56 WATER VALVE	
08 LANDSCAPING, SOD	61 UNDERGROUND POWER (LOCATED IN TUNNEL)	
09 LANDSCAPING, MULCH	62 SITE LIGHTING	
11 ACCESS HATCH	63 UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)	
13 CONCRETE STAIRS	64 STEAM LINE (LOCATED IN TUNNEL)	
15 RAILING	65 CONDENSATE LINE (LOCATED IN TUNNEL)	
18 CONCRETE RETAINING WALL	67 PRESSURE IRRIGATION MAIN LINE	
19 ASPHALT PAVING	68 IRRIGATION VALVE	
29 RAISED 20" WIDE CONCRETE CURB	69 STEAM LINE EXPANSION LOOP	
33 BENCH	70 STORM DRAIN LINE	
34 BLOCK RETAINING WALL	71 STORM DRAIN INLET	

EXISTING SITE NOTES	
1.	STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2.	CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3.	PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4.	TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5.	FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.



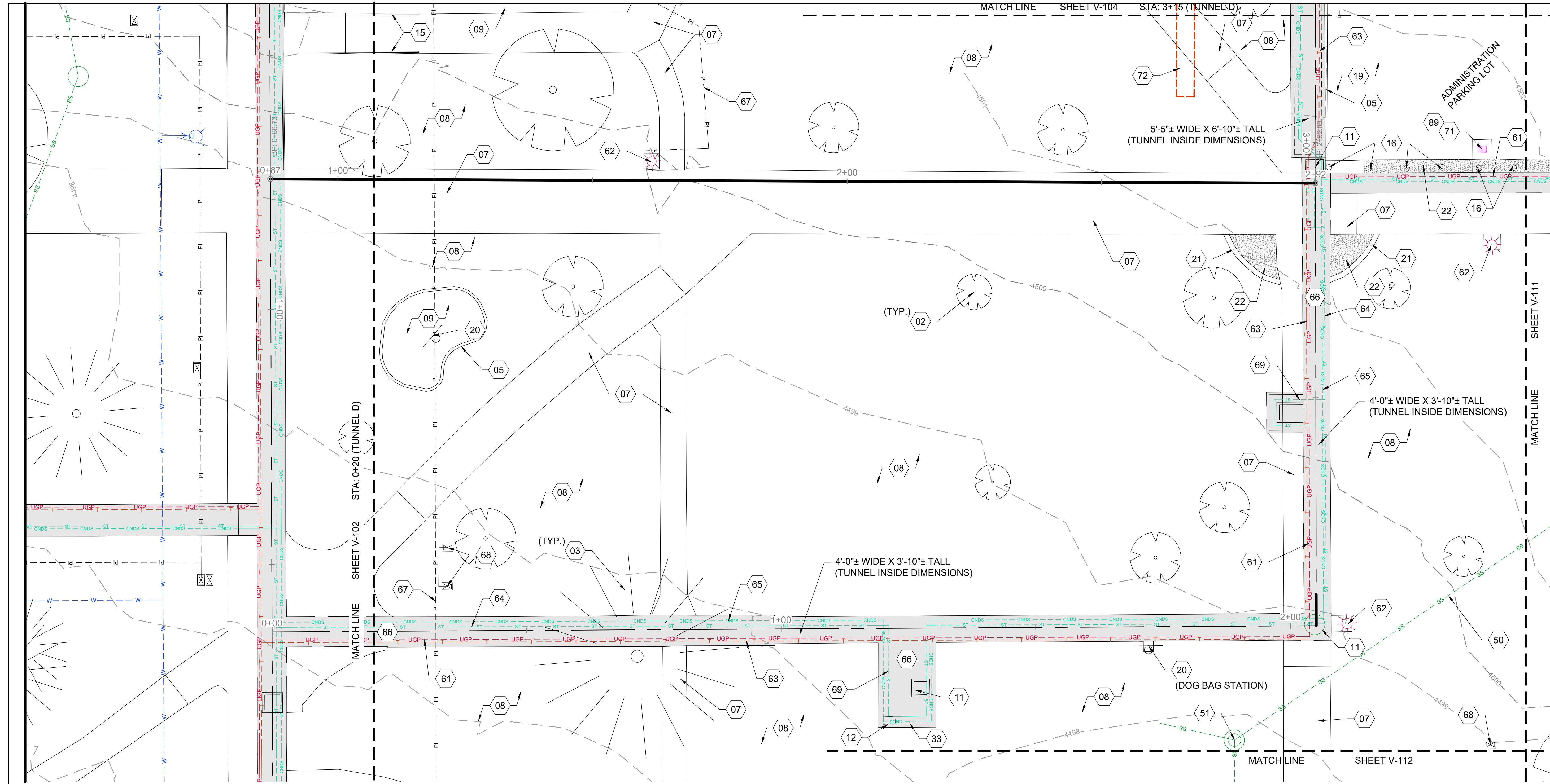
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

DRAWN: KJW / CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-103



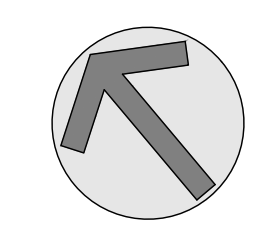
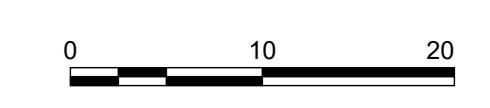
**SHEET KEYNOTES**

- 02 DECIDUOUS TREE
- 03 CONIFEROUS TREE
- 05 CURB WALL
- 07 CONCRETE SIDEWALK
- 08 LANDSCAPING, SOD
- 09 LANDSCAPING, MULCH
- 11 ACCESS HATCH
- 12 MEMORIAL MARKER
- 15 RAILING
- 16 BOLLARD
- 19 ASPHALT PAVING
- 20 SITE SIGN
- 21 RIBBON CURB
- 22 EXPOSED AGGREGATE CONCRETE SIDEWALK
- 33 BENCH
- 50 SANITARY SEWER LINE

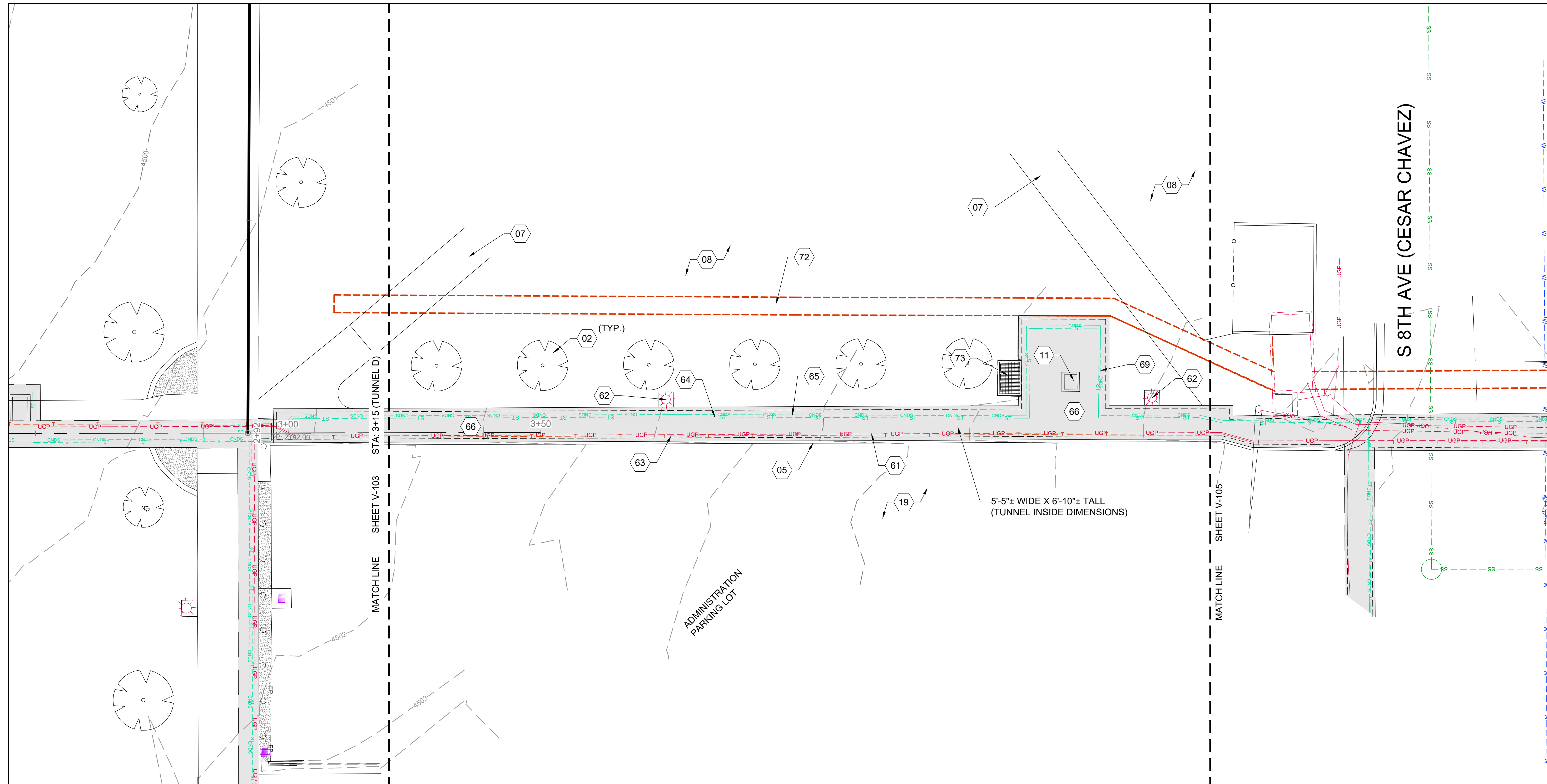
- 51 SANITARY SEWER MANHOLE
- 61 UNDERGROUND POWER (LOCATED IN TUNNEL)
- 62 SITE LIGHTING
- 63 UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
- 64 STEAM LINE (LOCATED IN TUNNEL)
- 65 CONDENSATE LINE (LOCATED IN TUNNEL)
- 66 TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
- 67 PRESSURE IRRIGATION MAIN LINE
- 68 IRRIGATION VALVE
- 69 STEAM LINE EXPANSION LOOP
- 71 STORM DRAIN INLET
- 72 CONDUIT BANK, EMPTY (FOR FUTURE POWER AND COMMUNICATION LINES)
- 89 STORM DRAIN INFILTRATION DRY WELL

**EXISTING SITE NOTES**

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.







SHEET KEYNOTES	
02	DECIDUOUS TREE
05	CURB WALL
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
11	ACCESS HATCH
19	ASPHALT PAVING
61	UNDERGROUND POWER (LOCATED IN TUNNEL)
62	SITE LIGHTING
63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
64	STEAM LINE (LOCATED IN TUNNEL)
65	CONDENSATE LINE (LOCATED IN TUNNEL)
66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
69	STEAM LINE EXPANSION LOOP
72	CONDUIT BANK, EMPTY (FOR FUTURE POWER AND COMMUNICATION LINES)
73	TUNNEL VENT SHAFT

EXISTING SITE NOTES	
1.	STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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5.	FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

DRAWN: KJW / CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-104









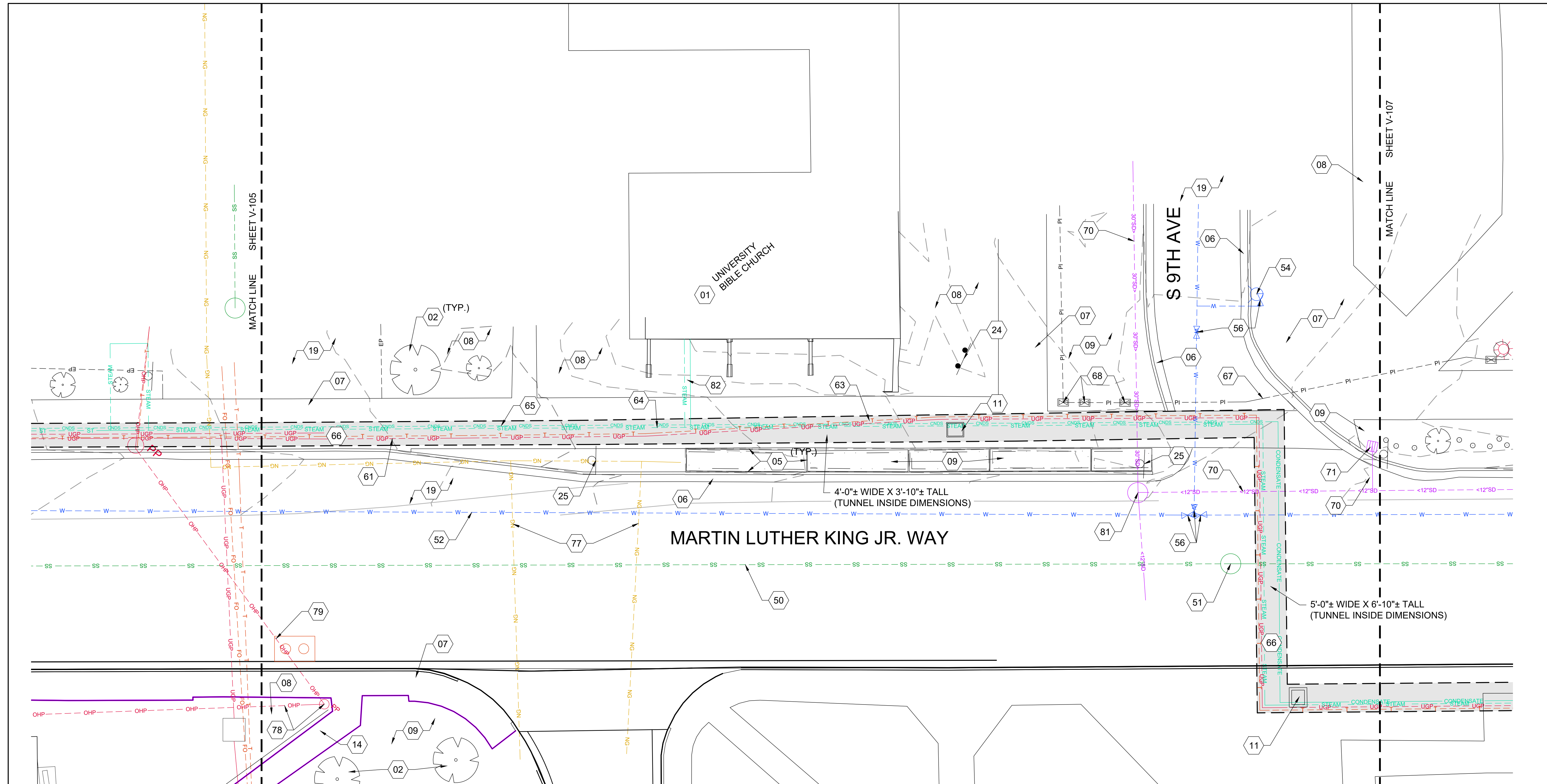
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-106



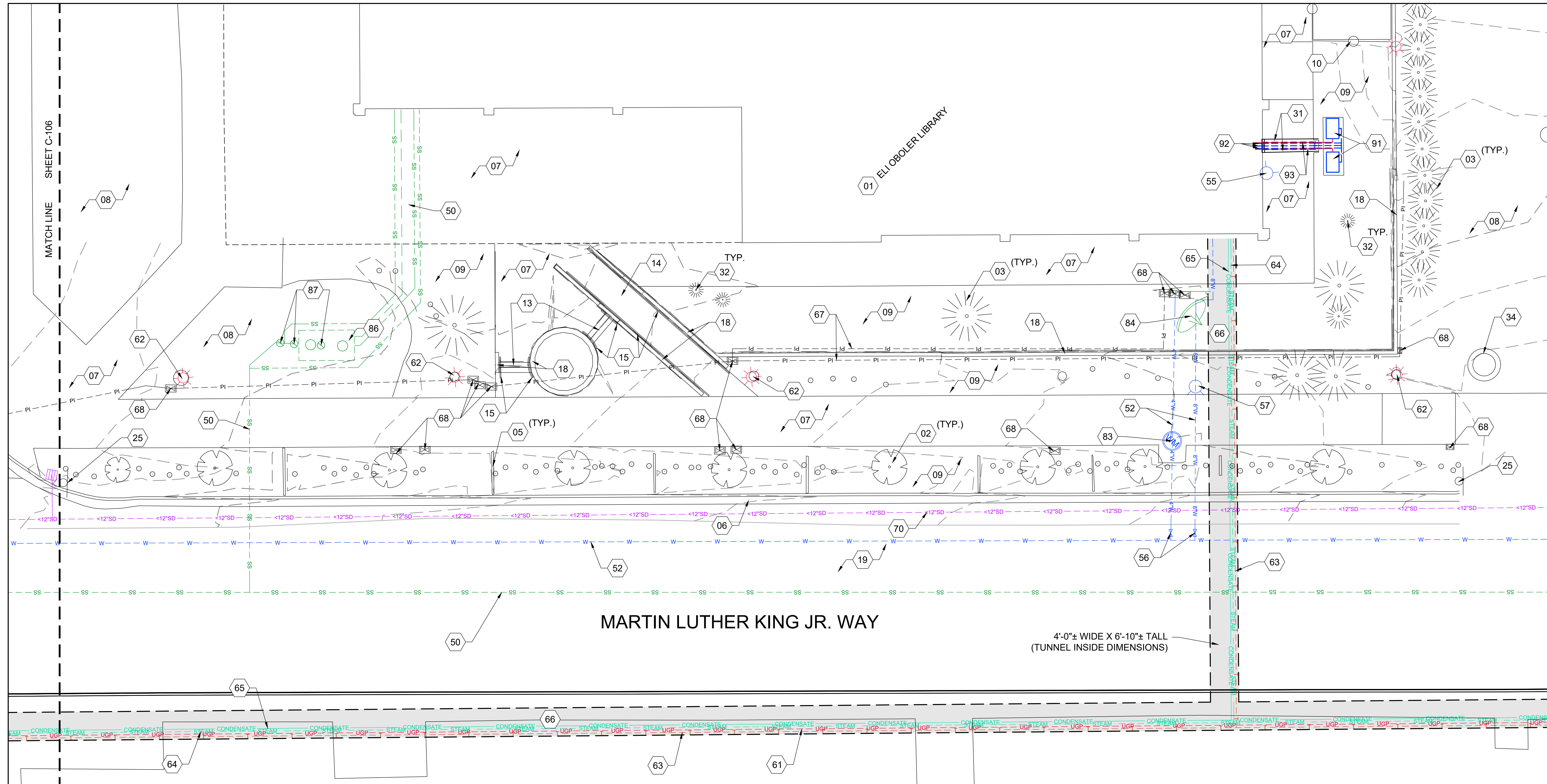
SHEET KEYNOTES	
01	BUILDING
02	DECIDUOUS TREE
05	CURB WALL
06	CURB & GUTTER
07	CONCRETE SIDEWALK
08	LANDSCAPING, SOD
09	LANDSCAPING, MULCH
11	ACCESS HATCH
14	ADA RAMP
19	ASPHALT PAVING
24	BUILDING MONUMENT SIGN
25	STREET SIGN
50	SANITARY SEWER LINE
51	SANITARY SEWER MANHOLE
52	WATER LINE
54	FIRE HYDRANT
56	WATER VALVE
61	UNDERGROUND POWER (LOCATED IN TUNNEL)
63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
64	STEAM LINE (LOCATED IN TUNNEL)
65	CONDENSATE LINE (LOCATED IN TUNNEL)
66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
67	PRESSURE IRRIGATION MAIN LINE
68	IRRIGATION VALVE
70	STORM DRAIN LINE
71	STORM DRAIN INLET
77	NATURAL GAS LINE
78	POWER POLE
79	OVERHEAD POWER
81	STORM DRAIN MANHOLE
82	STEAM AND CONDENSATE BANK TO BUILDING

- EXISTING SITE NOTES**
- STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
  - CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
  - PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
  - TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

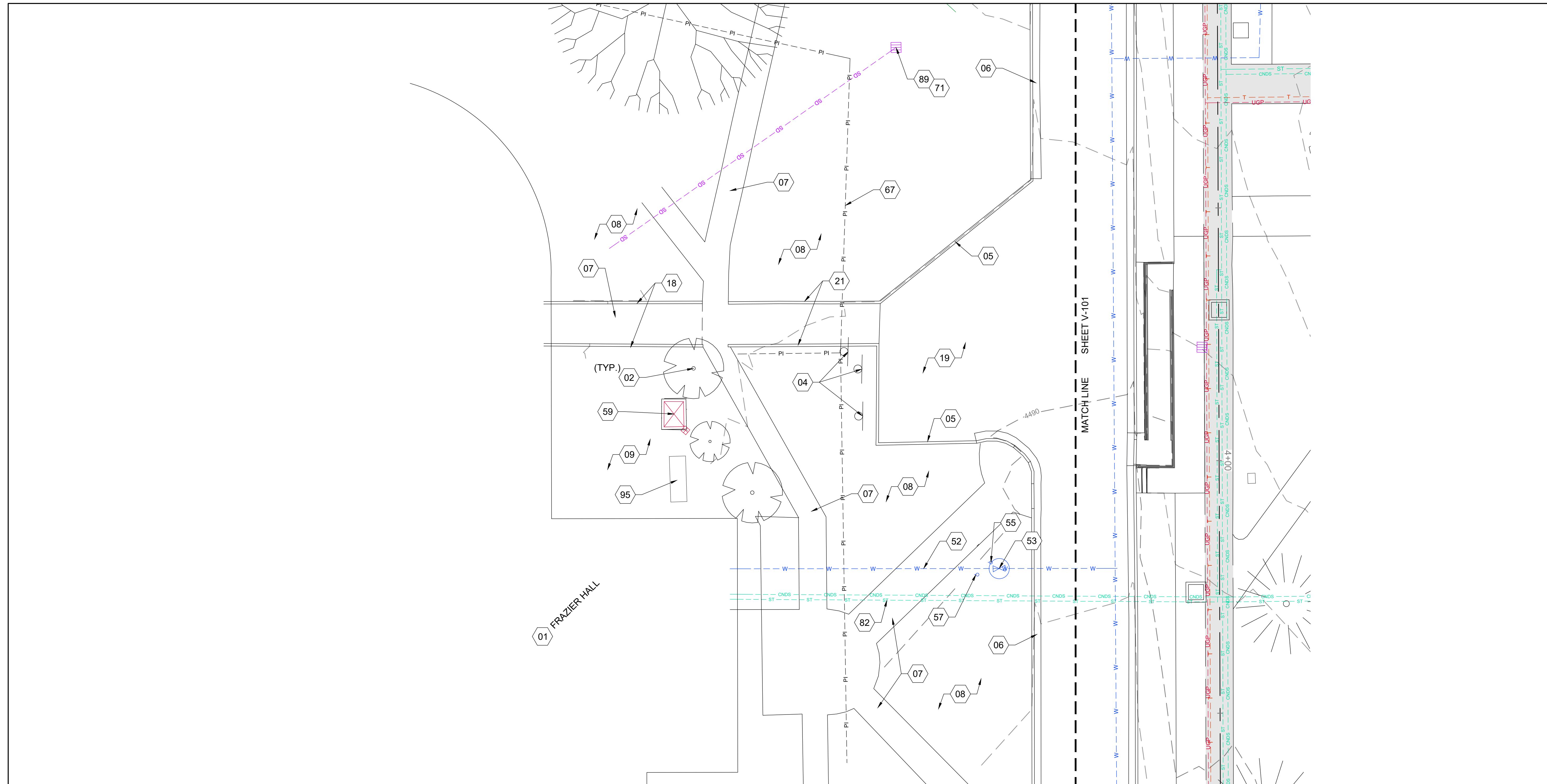
IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

SHEET KEYNOTES			
01	BUILDING	32	SHRUB
02	DECIDUOUS TREE	34	BLOCK RETAINING WALL
03	CONIFEROUS TREE	50	SANITARY SEWER LINE
05	CURB WALL	52	WATER LINE
06	CURB & GUTTER	55	FIRE DEPARTMENT CONNECTION
07	CONCRETE SIDEWALK	56	WATER VALVE
08	LANDSCAPING, SOD	57	POST INDICATOR VALVE
09	LANDSCAPING, MULCH	61	UNDERGROUND POWER (LOCATED IN TUNNEL)
10	CHAIN LINK FENCE	62	SITE LIGHTING
13	CONCRETE STAIRS	63	UNDERGROUND COMMUNICATIONS (LOCATED IN TUNNEL)
14	ADA RAMP	64	STEAM LINE (LOCATED IN TUNNEL)
15	RAILING	65	CONDENSATE LINE (LOCATED IN TUNNEL)
18	CONCRETE RETAINING WALL	66	TUNNEL (LOCATED UNDER SIDEWALK OR PAVING)
19	ASPHALT PAVING	67	PRESSURE IRRIGATION MAIN LINE
25	STREET SIGN	68	IRRIGATION VALVE
31	SIDEWALK TRENCH DRAIN	70	STORM DRAIN LINE
01	BUILDING	83	WATER METER
02	DECIDUOUS TREE	84	SATELLITE DISH
03	CONIFEROUS TREE	86	GREASE TRAP
05	CURB WALL	87	SANITARY SEWER CLEANOUT
06	CURB & GUTTER	91	CHILLER UNITS
07	CONCRETE SIDEWALK	92	REFRIGERANT LINES
08	LANDSCAPING, SOD	93	ELECTRICAL CONDUITS

- EXISTING SITE NOTES**
- STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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  - FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

DRAWN: KJW | CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-107



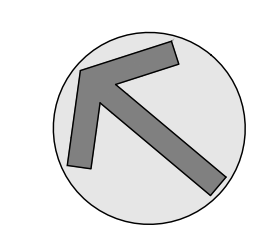
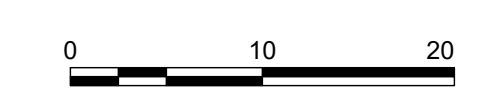


**SHEET KEYNOTES**

01	BUILDING	67	PRESSURE IRRIGATION MAIN LINE
02	DECIDUOUS TREE	71	STORM DRAIN INLET
04	PARKING SIGN	82	STEAM AND CONDENSATE BANK TO BUILDING
05	CURB WALL	89	STORM DRAIN INFILTRATION DRY WELL
06	CURB & GUTTER	95	VAULT (UNKNOWN)
07	CONCRETE SIDEWALK		
08	LANDSCAPING, SOD		
09	LANDSCAPING, MULCH		
18	CONCRETE RETAINING WALL		
19	ASPHALT PAVING		
21	RIBBON CURB		
52	WATER LINE		
53	WATER VAULT		
55	FIRE DEPARTMENT CONNECTION		
57	POST INDICATOR VALVE		
59	ELECTRICAL TRANSFORMER		

**EXISTING SITE NOTES**

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
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5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.



NO.	REVISIONS	DATE

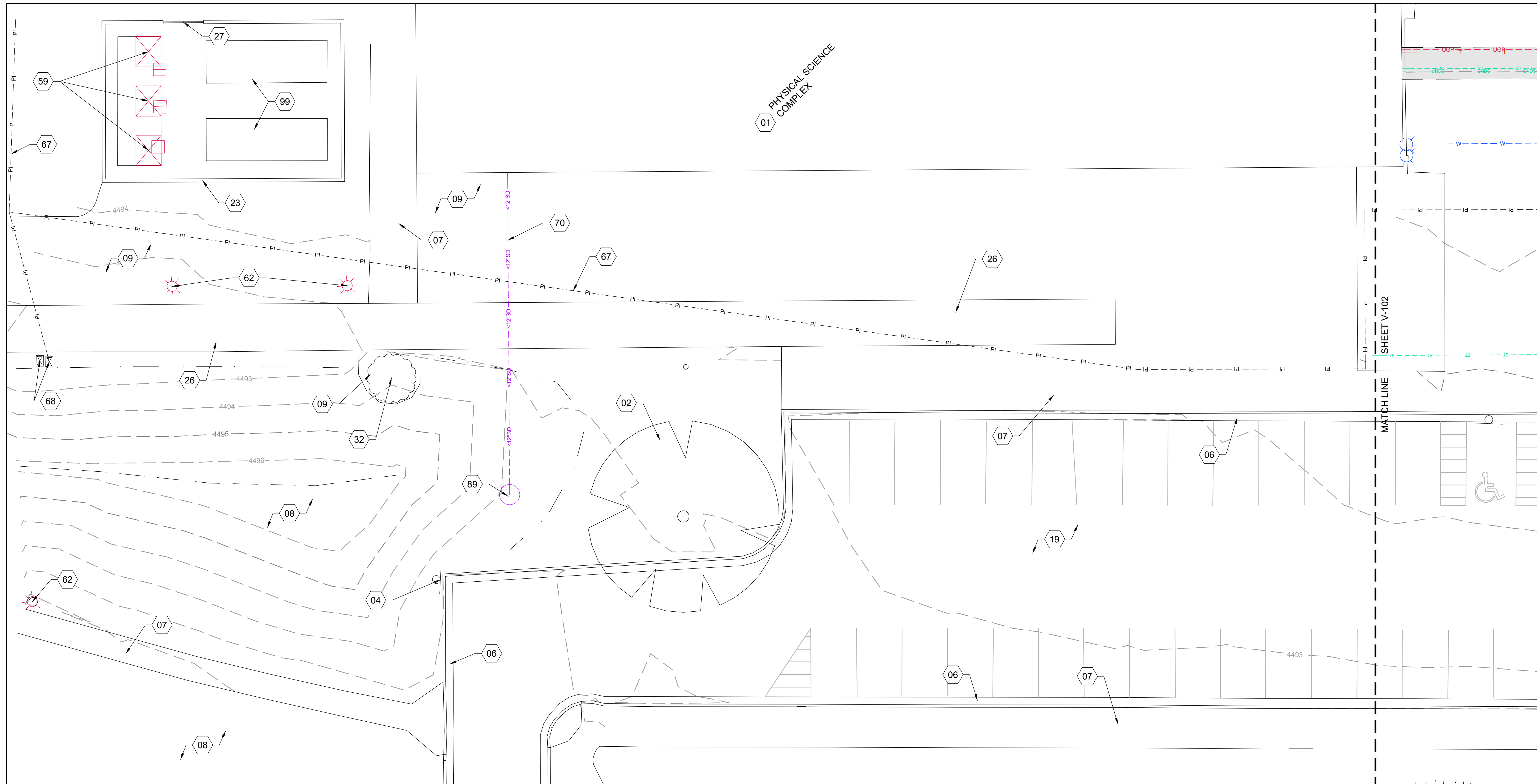
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**DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL**

**IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **V-108**





**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

PROFESSIONAL SEAL  
 Registered Professional Engineer  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

**SHEET KEYNOTES**

01 BUILDING	70 STORM DRAIN LINE
02 DECIDUOUS TREE	89 STORM DRAIN INFILTRATION DRY WELL
04 PARKING SIGN	99 CHILLER UNITS
06 CURB & GUTTER	
07 CONCRETE SIDEWALK	
08 LANDSCAPING, SOD	
09 LANDSCAPING, MULCH	
19 ASPHALT PAVING	
23 ENCLOSURE WALL	
26 SIDEWALK, PAVERS	
27 ENCLOSURE GATE	
32 SHRUB	
59 ELECTRICAL TRANSFORMER	
62 SITE LIGHTING	
67 PRESSURE IRRIGATION MAIN LINE	
68 IRRIGATION VALVE	

**EXISTING SITE NOTES**

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- FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

0 10 20

1-1/2 Inches

PROJECT NO.  
208106-088

SHEET NO.  
**V-109**

DRAWN: KJW / CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.





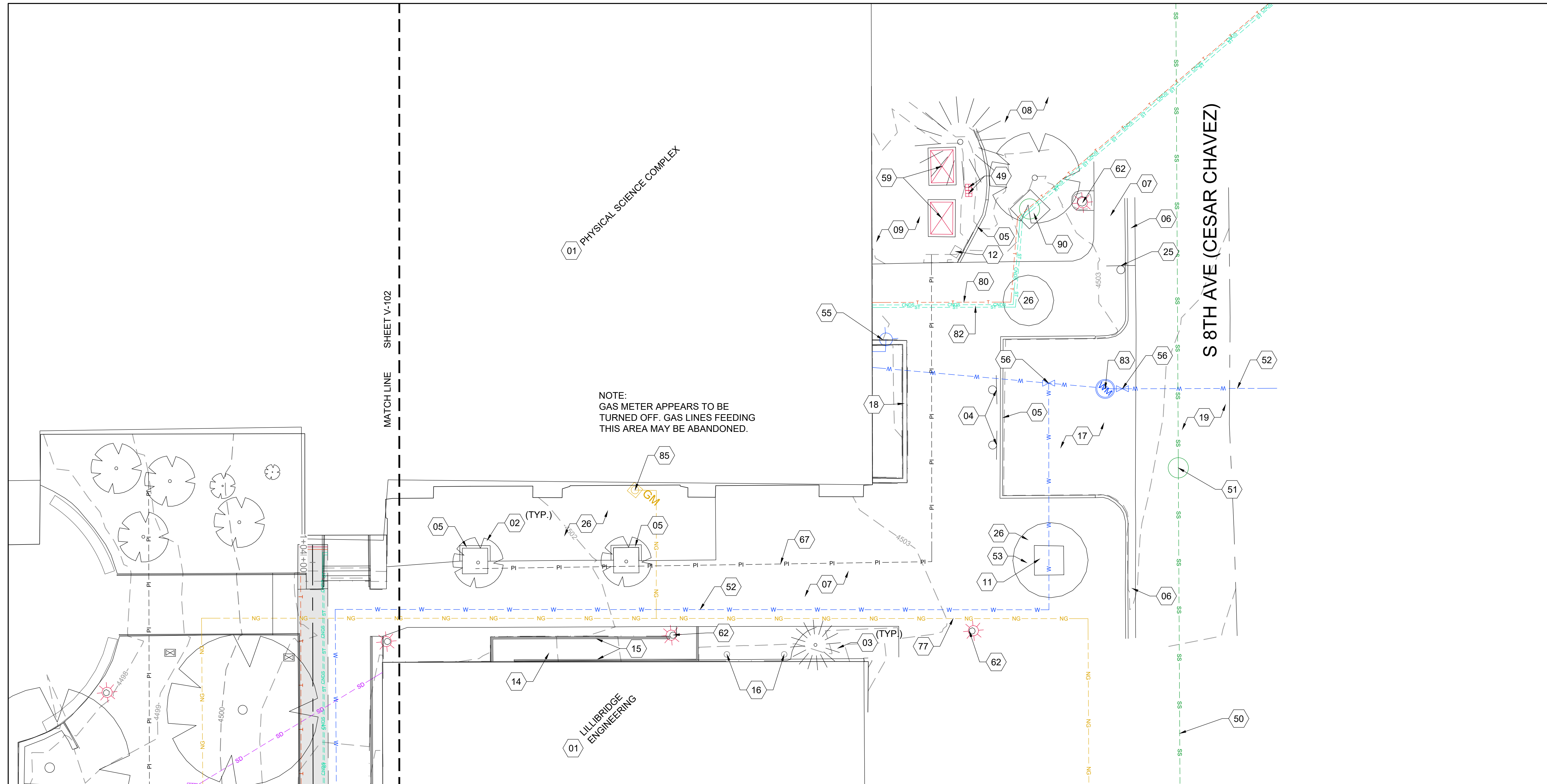
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN

DRAWN: KJW | CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-110

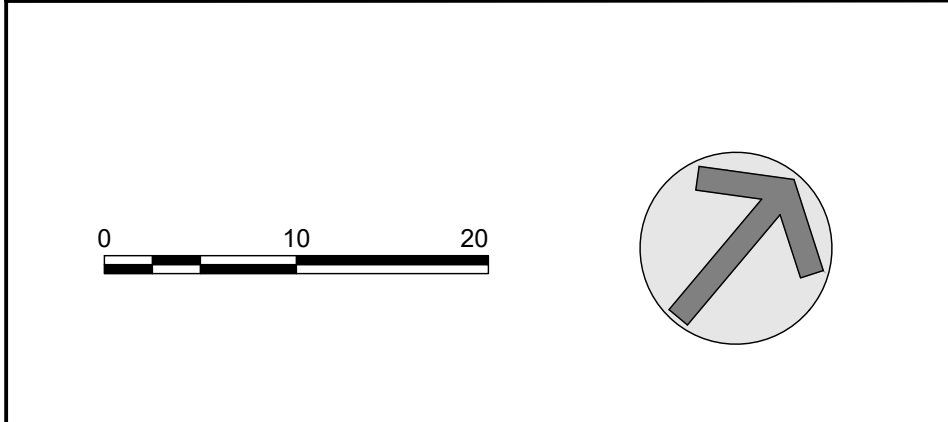


SHEET KEYNOTES

01 BUILDING	19 ASPHALT PAVING	85 GAS METER
02 DECIDUOUS TREE	25 STREET SIGN	90 UTILITY VAULT
03 CONIFEROUS TREE	26 SIDEWALK, PAVERS	
04 PARKING SIGN	49 ELECTRICAL METER	
05 CURB WALL	50 SANITARY SEWER LINE	
06 CURB & GUTTER	51 SANITARY SEWER MANHOLE	
07 CONCRETE SIDEWALK	52 WATER LINE	
08 LANDSCAPING, SOD	53 WATER VAULT	
09 LANDSCAPING, MULCH	55 FIRE DEPARTMENT CONNECTION	
11 ACCESS HATCH	56 WATER VALVE	
12 MEMORIAL MARKER	59 ELECTRICAL TRANSFORMER	
14 ADA RAMP	62 SITE LIGHTING	
15 RAILING	67 PRESSURE IRRIGATION MAIN LINE	
16 BOLLARD	77 NATURAL GAS LINE	
17 CONCRETE PAVING	80 UNDERGROUND COMMUNICATION LINE	
18 CONCRETE RETAINING WALL	82 STEAM AND CONDENSATE BANK TO BUILDING	
	83 WATER METER	

EXISTING SITE NOTES

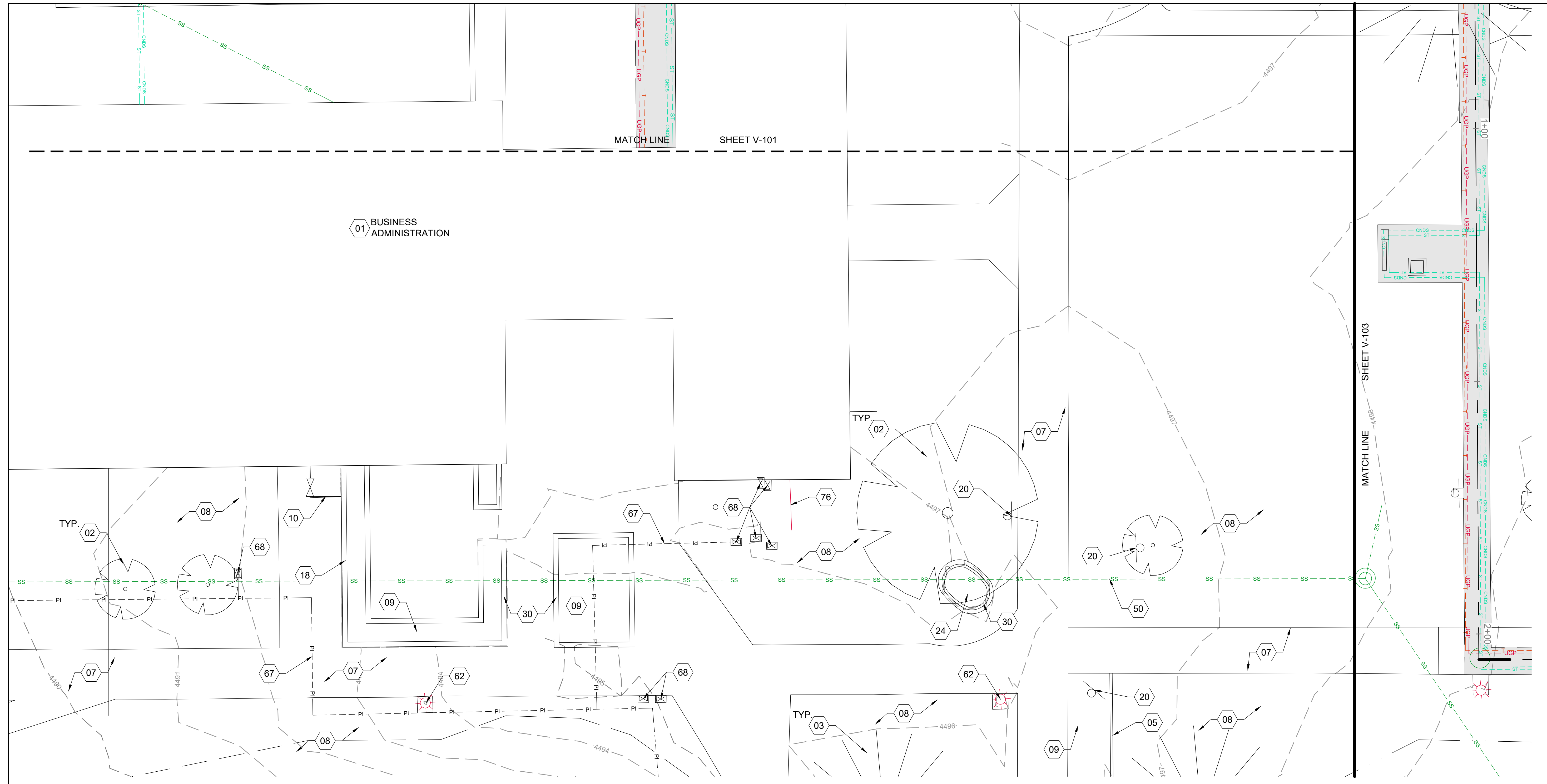
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- FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.











**SHEET KEYNOTES**

01	BUILDING	76	UNDERGROUND POWER
02	DECIDUOUS TREE		
03	CONIFEROUS TREE		
05	CURB WALL		
07	CONCRETE SIDEWALK		
08	LANDSCAPING, SOD		
09	LANDSCAPING, MULCH		
10	CHAIN LINK FENCE		
18	CONCRETE RETAINING WALL		
20	SITE SIGN		
24	BUILDING MONUMENT SIGN		
30	LANDSCAPE WALL		
50	SANITARY SEWER LINE		
62	SITE LIGHTING		
67	PRESSURE IRRIGATION MAIN LINE		
68	IRRIGATION VALVE		

**EXISTING SITE NOTES**

1. STEAM AND CONDENSATE LINES ARE IN TUNNELS LOCATED UNDER SIDEWALK PATHS UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
3. PIPE SIZES LISTED ON THESE PLANS MAY VARY IN THE FIELD. CONTRACTOR TO FIELD VERIFY.
4. TUNNEL UTILITIES INCLUDE: IDAHO POWER, SYRINGA, CABLE ONE, CENTURY LINK, AND IDAHO STATE UNIVERSITY NETWORKING / TELECOMMUNICATIONS.
5. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.



NO.	REVISIONS	DATE

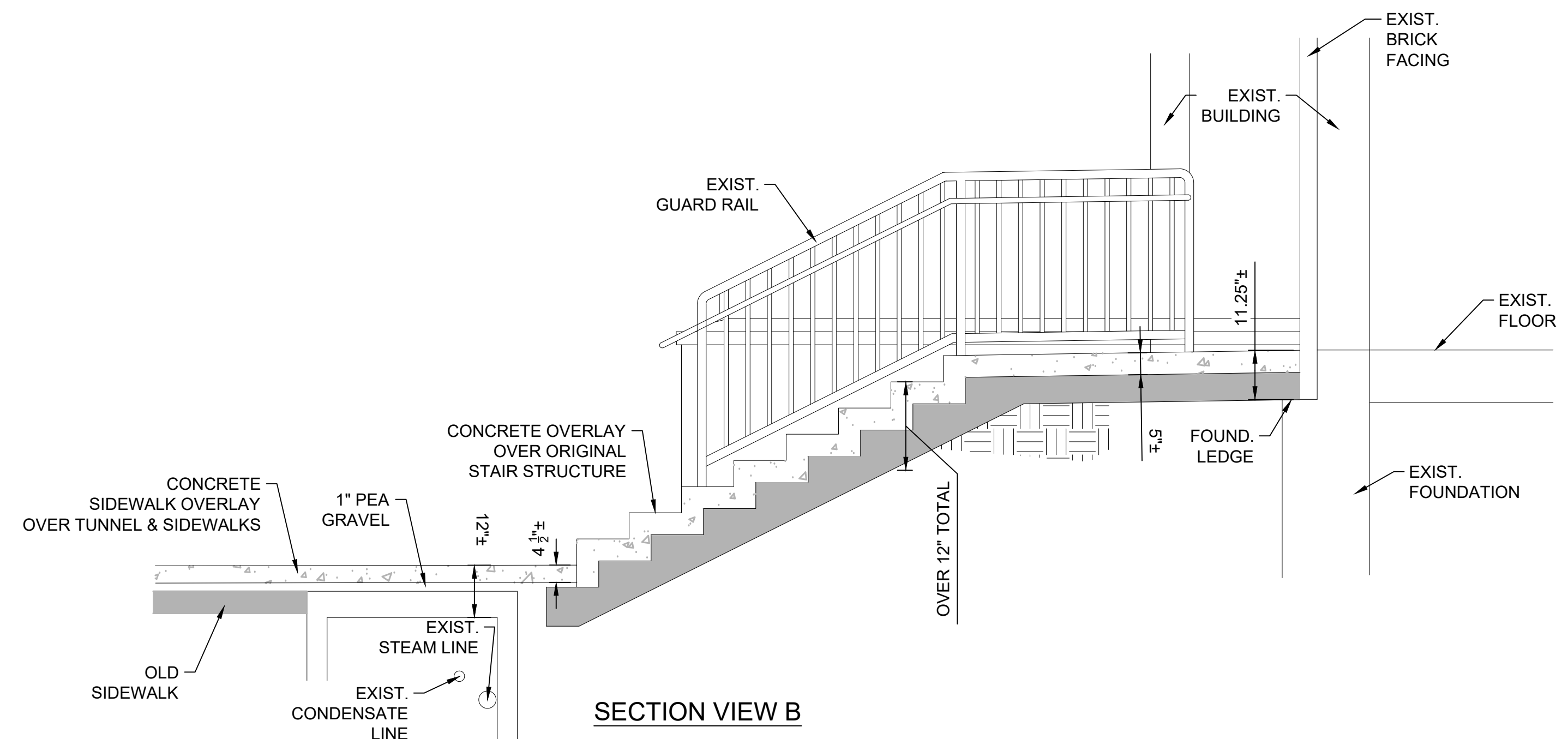
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**DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL**

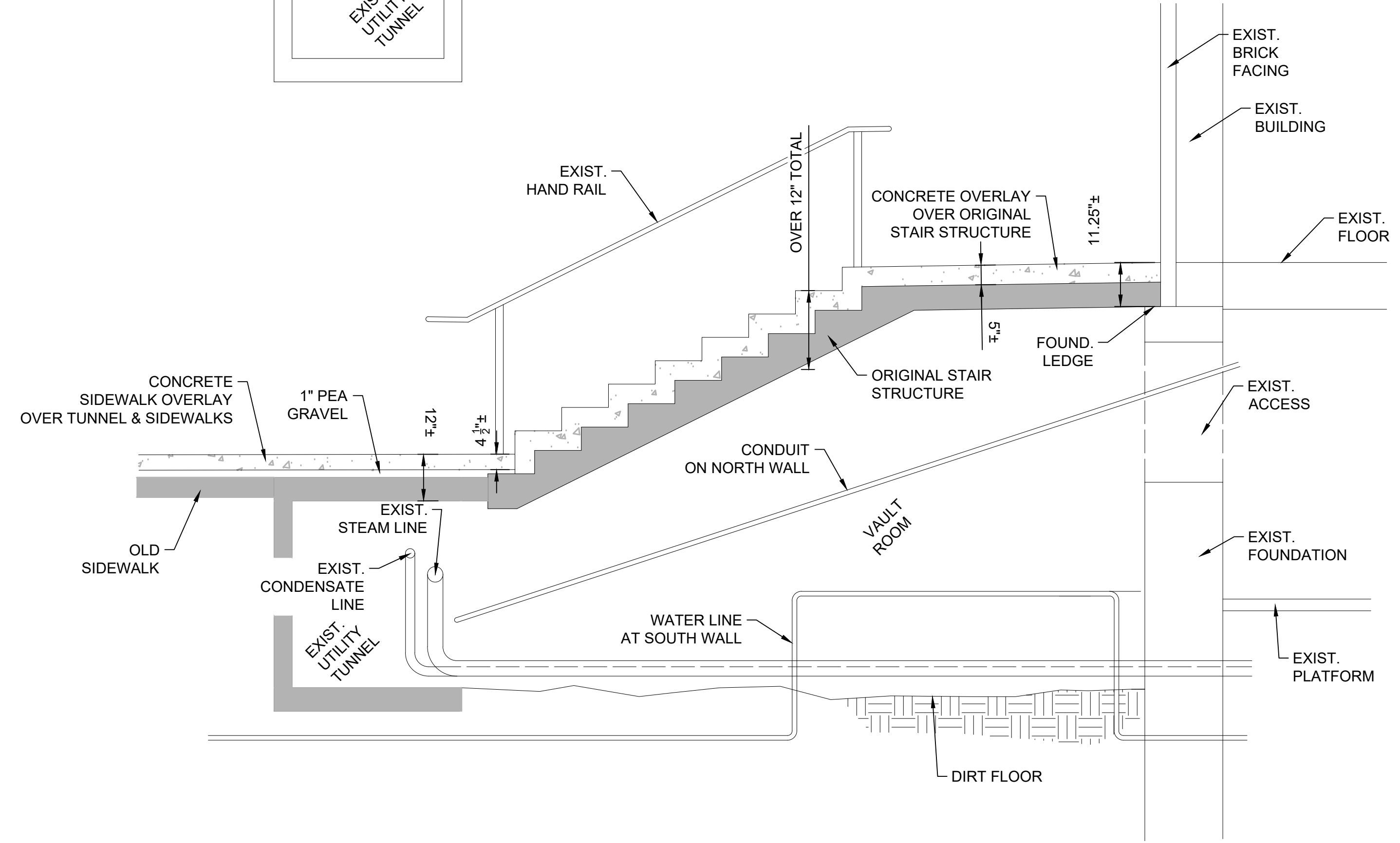
**IDAHO STATE UNIVERSITY  
 EXISTING SITE PLAN**

DRAWN: KJW | CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **V-112**



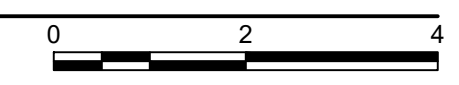


SECTION VIEW B



SECTION VIEW A

**A1** EXISTING ENLARGED ADMINISTRATIVE BUILDING STAIRS PLAN AND SECTIONS



NO.	REVISIONS	DATE

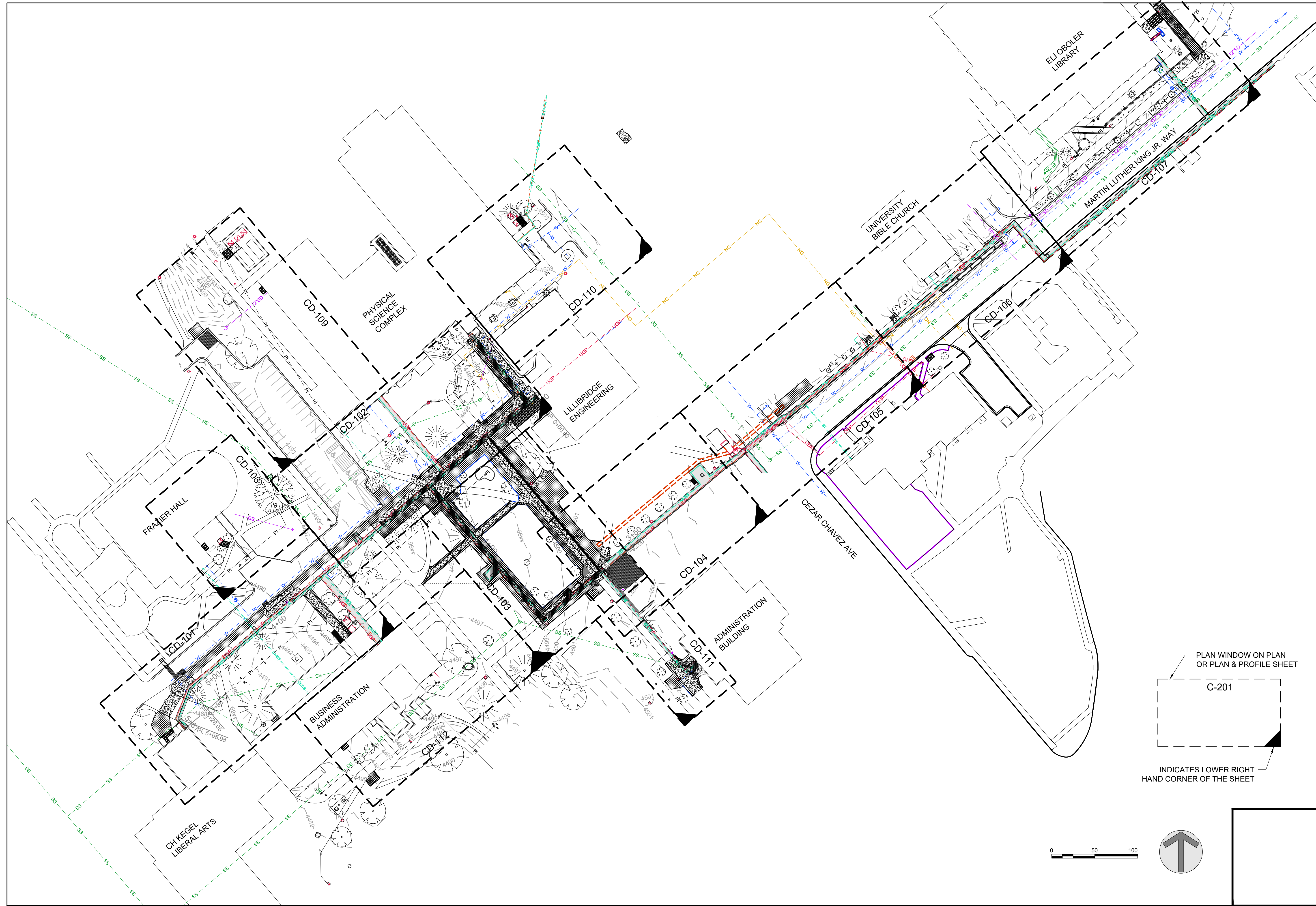
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 EXISTING ENLARGED SITE DETAIL

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. V-501





**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
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 (208) 238-2146

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

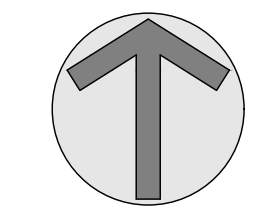
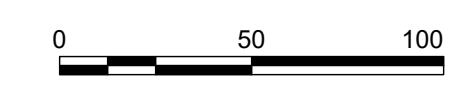
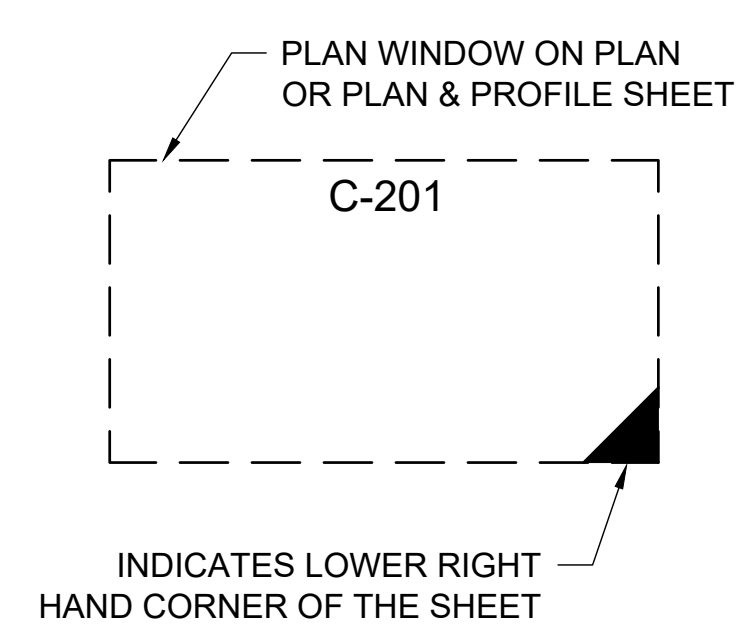
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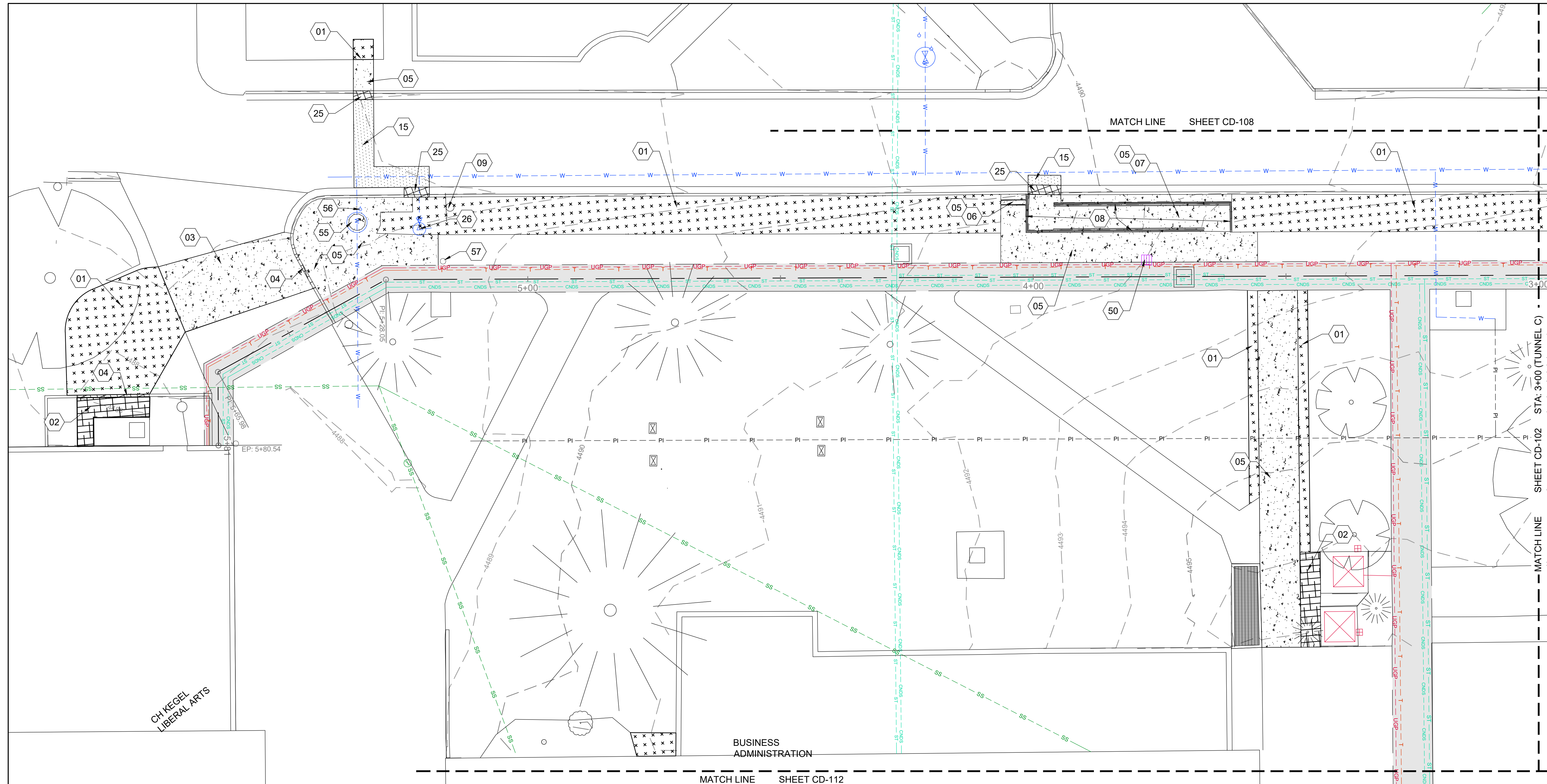
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 OVERALL DEMOLITION PLAN

DRAWN: KJW CHECK: HGB  
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 PROJECT NO. 208106-088  
 SHEET NO. **CD-100**







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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
**DEMOLITION PLAN**

**SHEET KEYNOTES**

- 01 DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 02 DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 03 DEMO, SAWCUT AND REMOVE CONCRETE PAVING
- 04 DEMO, SAWCUT AND REMOVE CURB WALL
- 05 DEMO, SAWCUT AND REMOVE SIDEWALK
- 06 DEMO, SAWCUT AND REMOVE STAIRS
- 07 DEMO SAWCUT AND REMOVE ADA RAMP
- 08 DEMO, SAWCUT AND REMOVE RETAINING WALL AND RAILINGS
- 09 DEMO, REMOVE SIGN, STORE AND RE-INSTALL, RE: SITE PLANS
- 15 DEMO, SAWCUT AND REMOVE ASPHALT PAVING

- 25 DEMO, SAWCUT AND REMOVE CURB & GUTTER
- 26 DEMO, REMOVE FIRE HYDRANT, VALVE, WATER LINE TO WATER MAIN LINE AND CAP AT MAIN LINE(STORE HYDRANT, TO BE REINSTALLED, RE: C-101
- 50 PRESERVE & PROTECT TUNNEL VENT, OR REMOVE AND REINTSALL WITH SIDEWALK
- 55 PRESERVE & PROTECT, WATER VAULT
- 56 PRESERVE & PROTECT, FIRE DEPARTMENT CONNECTION
- 57 PRESERVE & PROTECT BOLLARD

**DEMOLITION NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

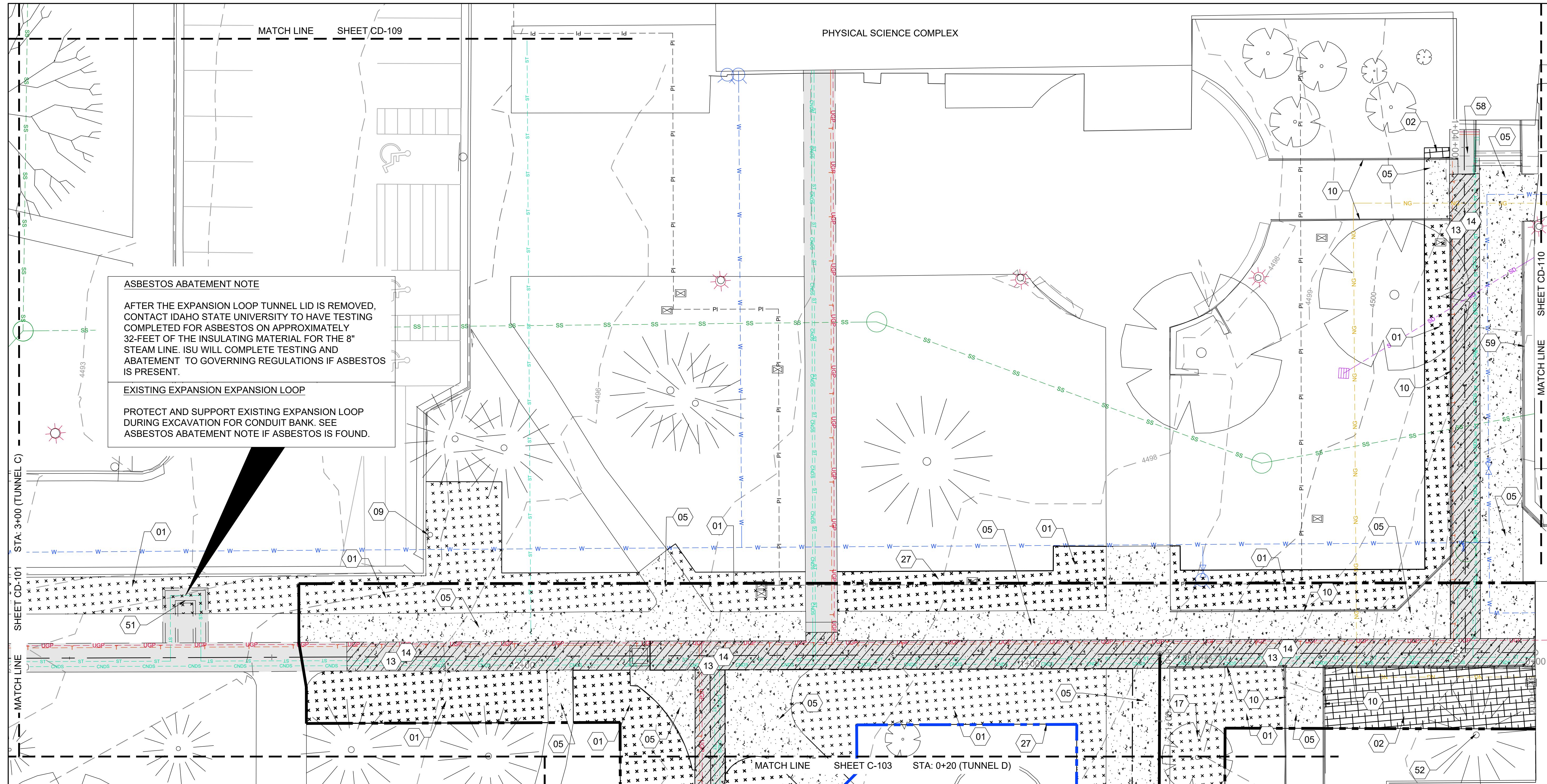
**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

0 10 20

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **CD-101**





**ASBESTOS ABATEMENT NOTE**

AFTER THE EXPANSION LOOP TUNNEL LID IS REMOVED, CONTACT IDAHO STATE UNIVERSITY TO HAVE TESTING COMPLETED FOR ASBESTOS ON APPROXIMATELY 32-FEET OF THE INSULATING MATERIAL FOR THE 8" STEAM LINE. ISU WILL COMPLETE TESTING AND ABATEMENT TO GOVERNING REGULATIONS IF ASBESTOS IS PRESENT.

**EXISTING EXPANSION EXPANSION LOOP**

PROTECT AND SUPPORT EXISTING EXPANSION LOOP DURING EXCAVATION FOR CONDUIT BANK. SEE ASBESTOS ABATEMENT NOTE IF ASBESTOS IS FOUND.

**SHEET KEYNOTES**

- 01 DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 02 DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 05 DEMO, SAWCUT AND REMOVE SIDEWALK
- 09 DEMO, REMOVE SIGN, STORE AND RE-INSTALL, RE: SITE PLANS
- 10 DEMO, REMOVE RAILINGS
- 13 DEMO, REMOVE SIDEWALK/CAP TO UTILITY TUNNEL
- 14 DEMO, REMOVE UTILITY TUNNEL UNDER SIDEWALK
- 17 DEMO, REMOVE DECIDUOUS TREE
- 27 DEMO, TUNNEL EXCAVATION LIMITS, RE: A3/C-503
- 51 PRESERVE & PROTECT CONCRETE EXPANSION LOOP TUNNEL

- 52 PRESERVE & PROTECT, CONIFEROUS TREE
- 58 PRESERVE & PROTECT SECTION OF TUNNEL LOCATED UNDER STAIR STRUCTURE
- 59 PRESERVE AND PROTECT RAILING AND CONCRETE WALL

**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

Scale: 0 10 20 feet

North Arrow

**KELLER ASSOCIATES**

305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146

PROFESSIONAL ENGINEER

Matthew B. Hill

15381

3/26/2024

STATE OF IDAHO

MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY

**DEMOLITION PLAN**

DRAWN: KJW CHECK: HGB

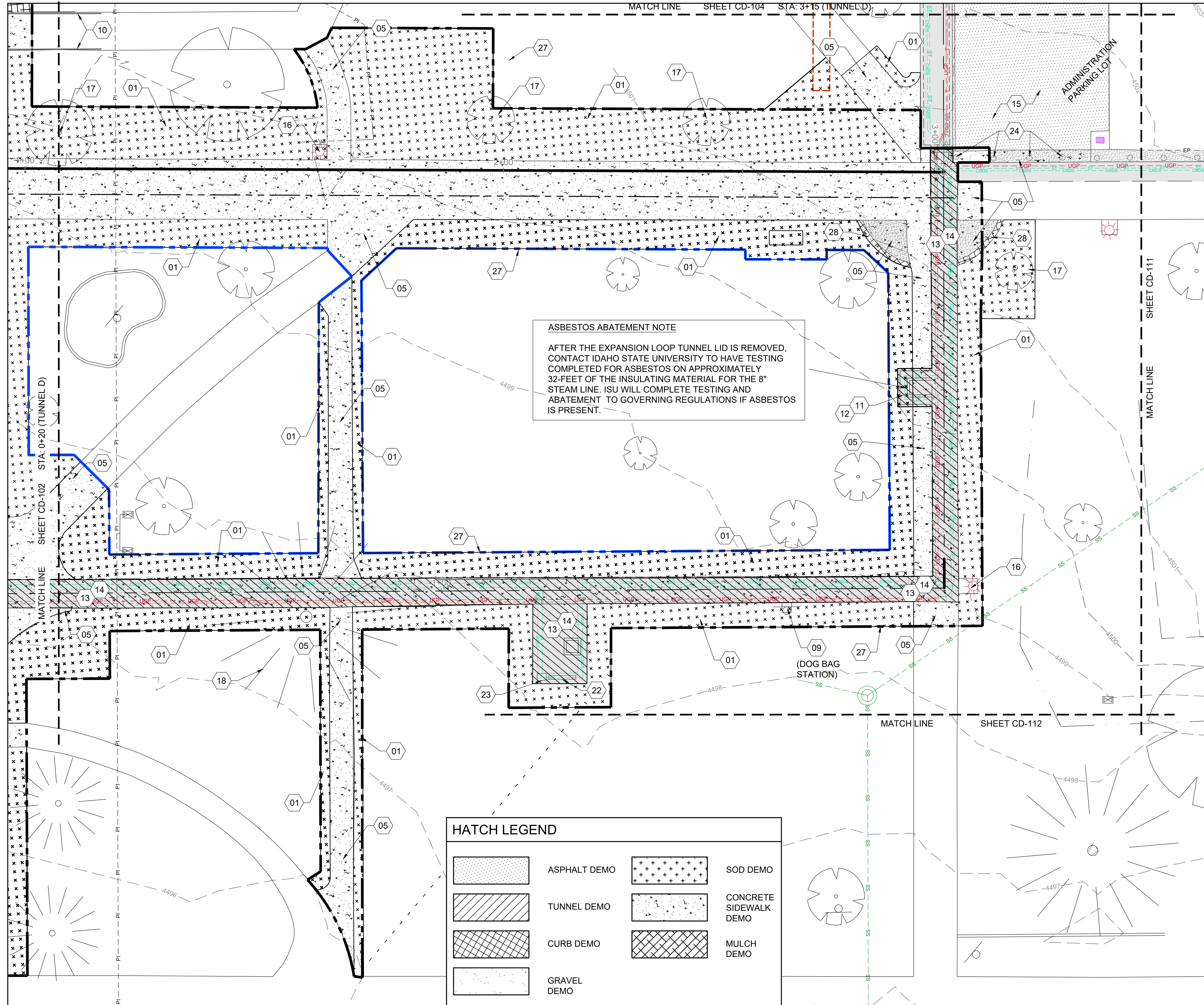
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO.  
208106-088

SHEET NO.  
**CD-102**





**ASBESTOS ABATEMENT NOTE**

AFTER THE EXPANSION LOOP TUNNEL LID IS REMOVED, CONTACT IDAHO STATE UNIVERSITY TO HAVE TESTING COMPLETED FOR ASBESTOS ON APPROXIMATELY 32- FEET OF THE INSULATING MATERIAL FOR THE 8" STEAM LINE. ISU WILL COMPLETE TESTING AND ABATEMENT TO GOVERNING REGULATIONS IF ASBESTOS IS PRESENT.

HATCH LEGEND			
	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

**SHEET KEYNOTES**

- 01 DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 05 DEMO, SAWCUT AND REMOVE SIDEWALK
- 09 DEMO, REMOVE SIGN, STORE AND RE-INSTALL, RE: SITE PLANS
- 10 DEMO, REMOVE RAILINGS
- 11 DEMO, ASBESTOS PIPE INSULATION ABATEMENT AND DISPOSAL. SEE ASBESTOS ABATEMENT NOTE.
- 12 DEMO, REMOVE EXISTING EXPANSION LOOP CONCRETE TUNNEL IN ITS ENTIRETY. EXISTING STEAM LINE EXPANSION LOOP PIPE INSULATION TO BE REMOVED BY OTHER. COORDINATE SCHEDULING TO BE REMOVED BY OTHER.
- 13 DEMO, REMOVE SIDEWALK/CAP TO UTILITY TUNNEL
- 14 DEMO, REMOVE UTILITY TUNNEL UNDER SIDEWALK
- 15 DEMO, SAWCUT AND REMOVE ASPHALT PAVING
- 16 DEMO, REMOVE EXISTING LIGHT POLE AND BASE. STORE LIGHT POLE, TO BE RE-INSTALLED, RE: SITE PLANS
- 17 DEMO, REMOVE DECIDUOUS TREE
- 18 DEMO, REMOVE CONIFEROUS TREE
- 22 DEMO, REMOVE BENCH, RETURN TO OWNER
- 23 DEMO, REMOVE MEMORIAL MONUMENT, RETURN TO OWNER
- 24 DEMO, REMOVE BOLLARDS
- 27 DEMO, TUNNEL EXCAVATION LIMITS, RE: A3/C-503
- 28 DEMO, SAWCUT AND REMOVE RIBBON CURB

**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**KELLER ASSOCIATES**  
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DESIGNED BY:  
  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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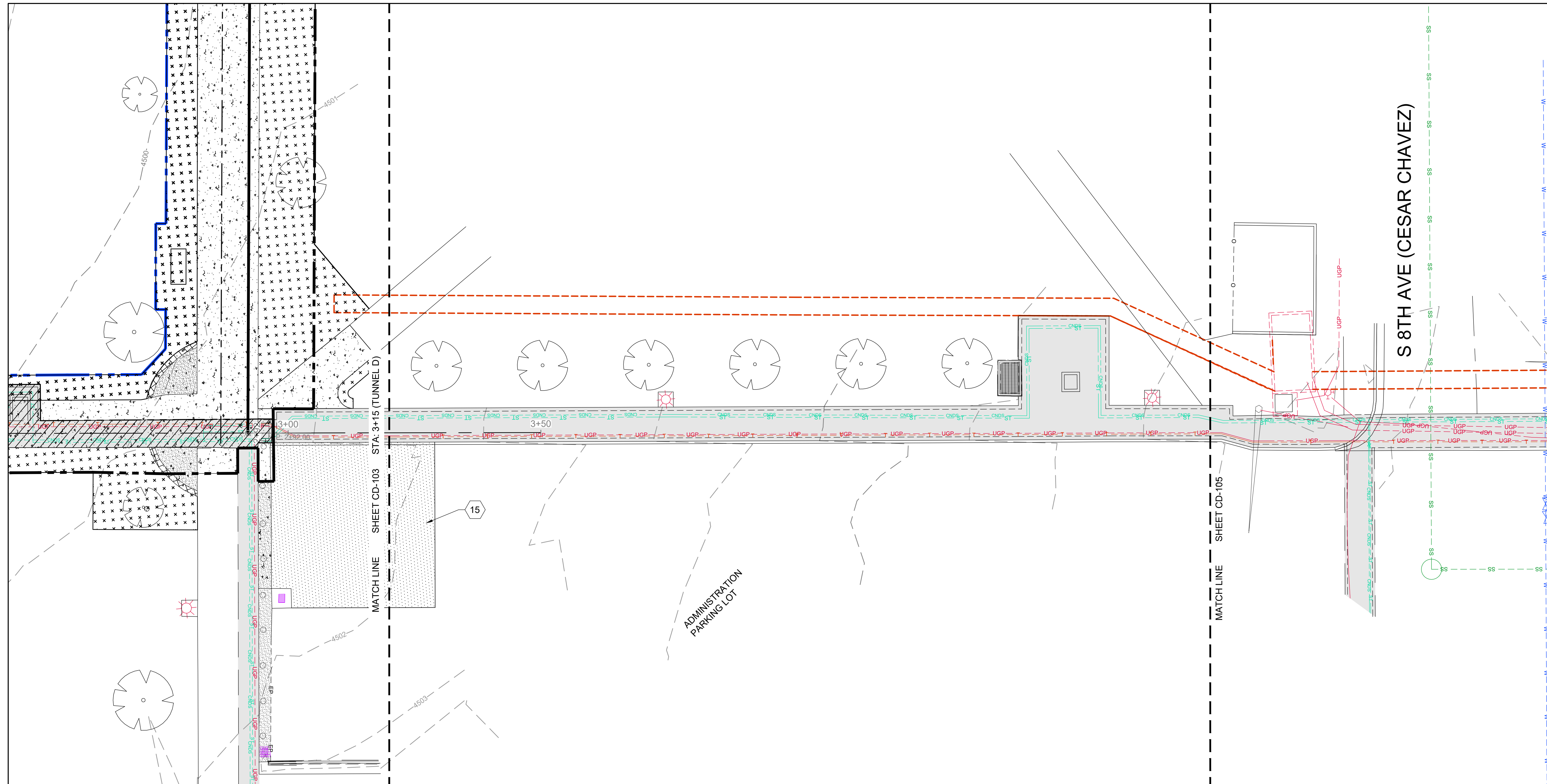
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
**DEMOLITION PLAN**

0 10 20

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 PROJECT NO. 208106-088  
 SHEET NO. **CD-103**





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
**DEMOLITION PLAN**

**SHEET KEYNOTES**

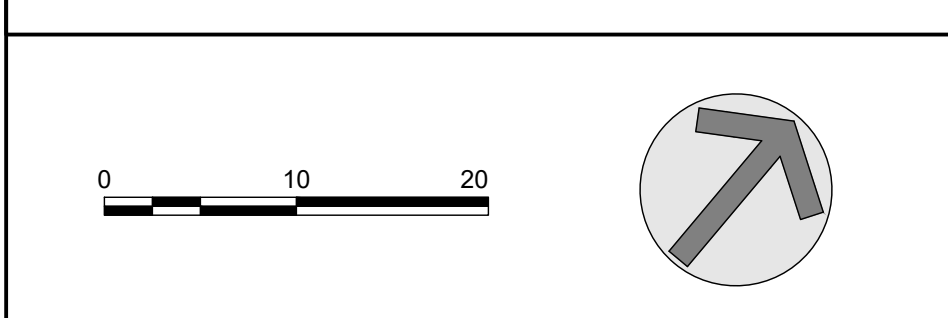
15 DEMO, SAWCUT AND REMOVE ASPHALT PAVING

**EXISTING SITE NOTES**

- SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
- SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
- PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
- IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
- FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

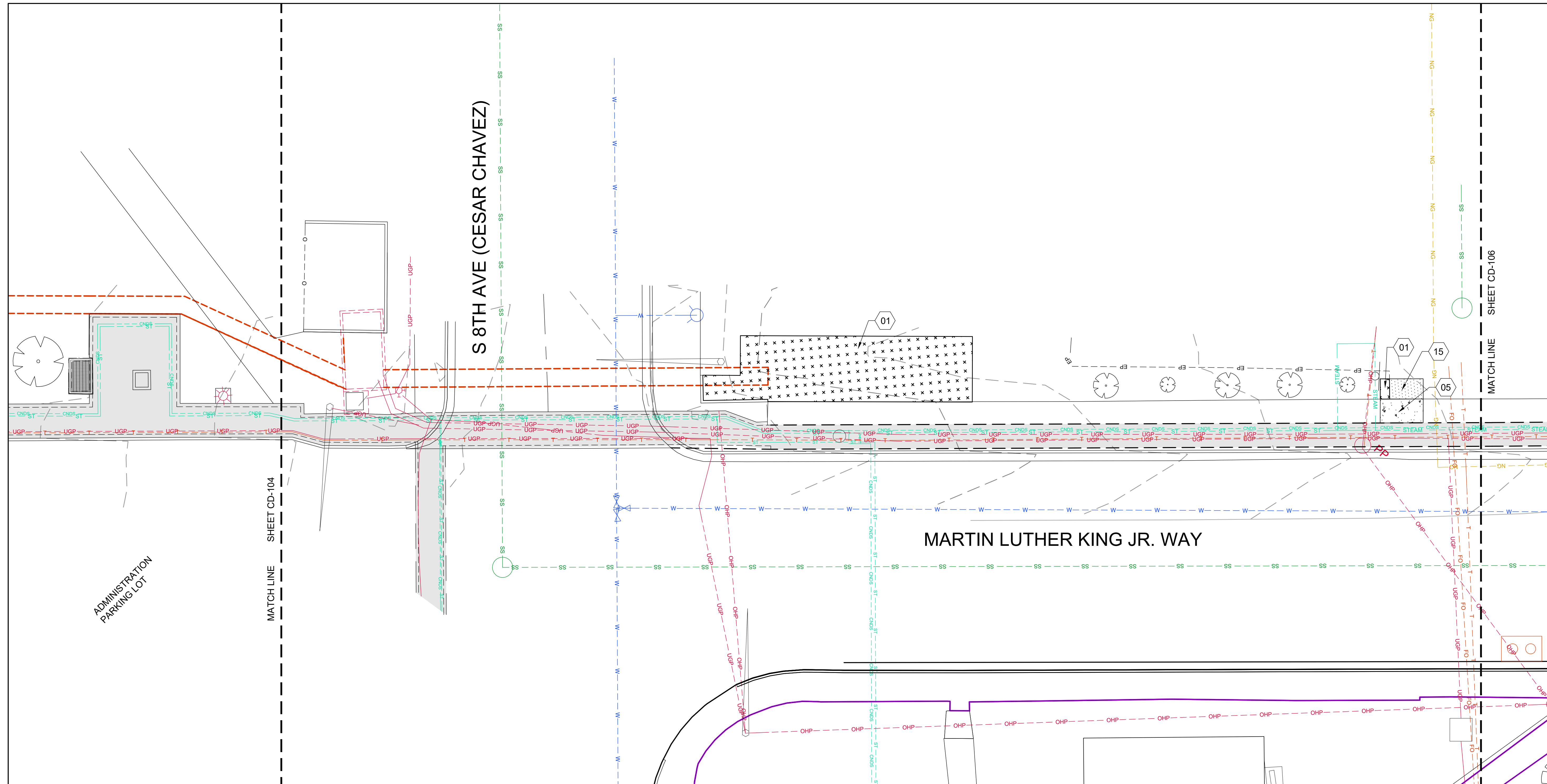
**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		



DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
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 SHEET NO. **CD-104**





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 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

**SHEET KEYNOTES**

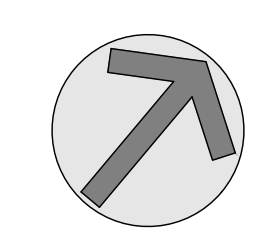
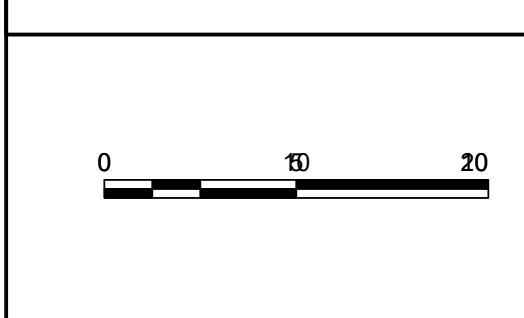
- 01 DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 05 DEMO, SAWCUT AND REMOVE SIDEWALK
- 15 DEMO, SAWCUT AND REMOVE ASPHALT PAVING

**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
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5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		



DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. CD-105





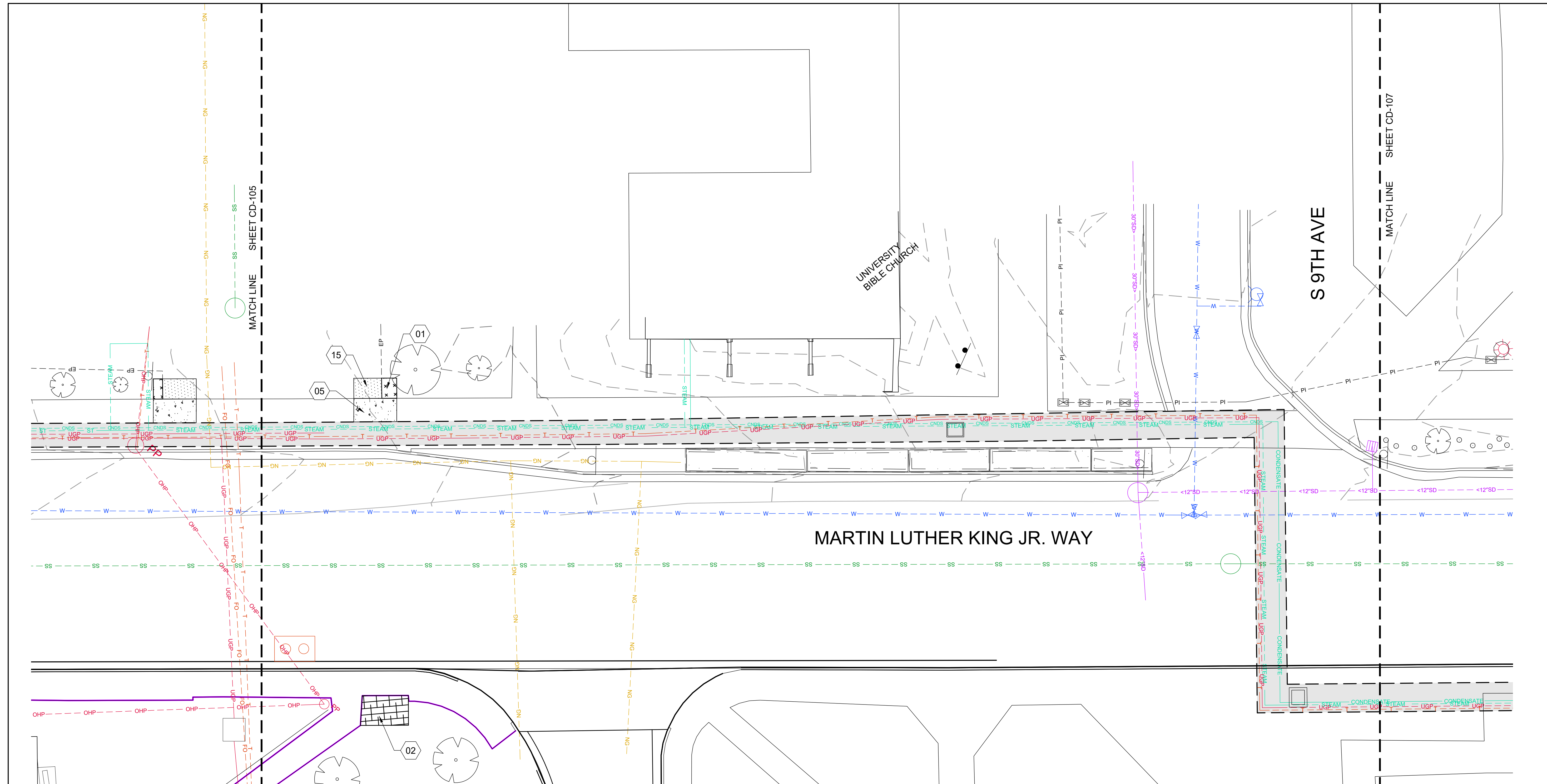
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**DPW PROJECT #21-654**  
**ISU: REPAIR UTILITY TUNNEL**

**IDAHO STATE UNIVERSITY**  
**DEMOLITION PLAN**

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 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **CD-106**



**SHEET KEYNOTES**

- 01 DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 02 DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 05 DEMO, SAWCUT AND REMOVE SIDEWALK
- 15 DEMO, SAWCUT AND REMOVE ASPHALT PAVING

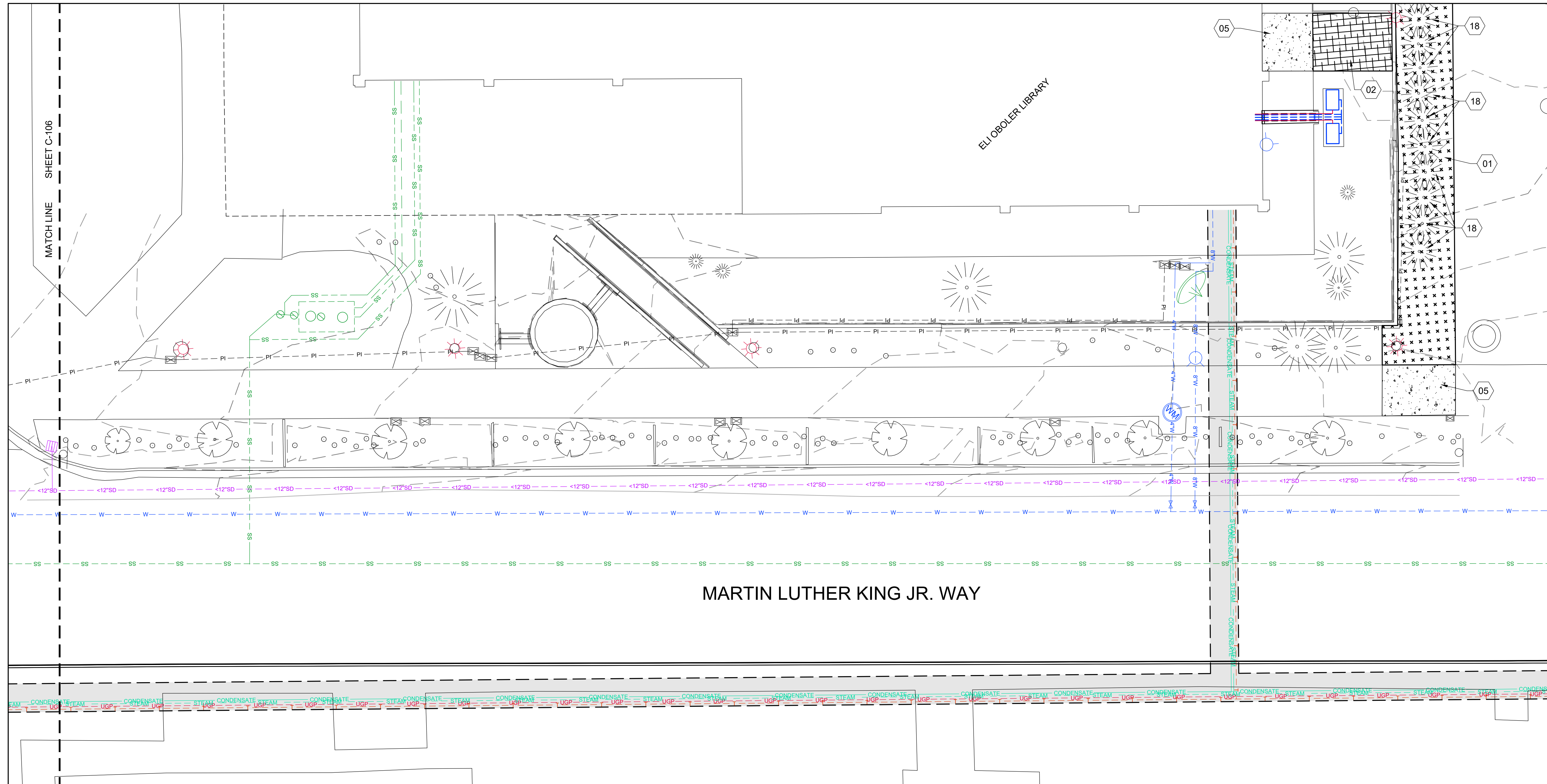
**EXISTING SITE NOTES**

1. NO DEMOLITION REQUIRED IN THIS SECTION.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		





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 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
 Matthew B. Hill  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

SHEET KEYNOTES	
01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
02	DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
05	DEMO, SAWCUT AND REMOVE SIDEWALK
18	DEMO, REMOVE CONIFEROUS TREE

- EXISTING SITE NOTES**
- SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
  - SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
  - PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
  - CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
  - IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
  - FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

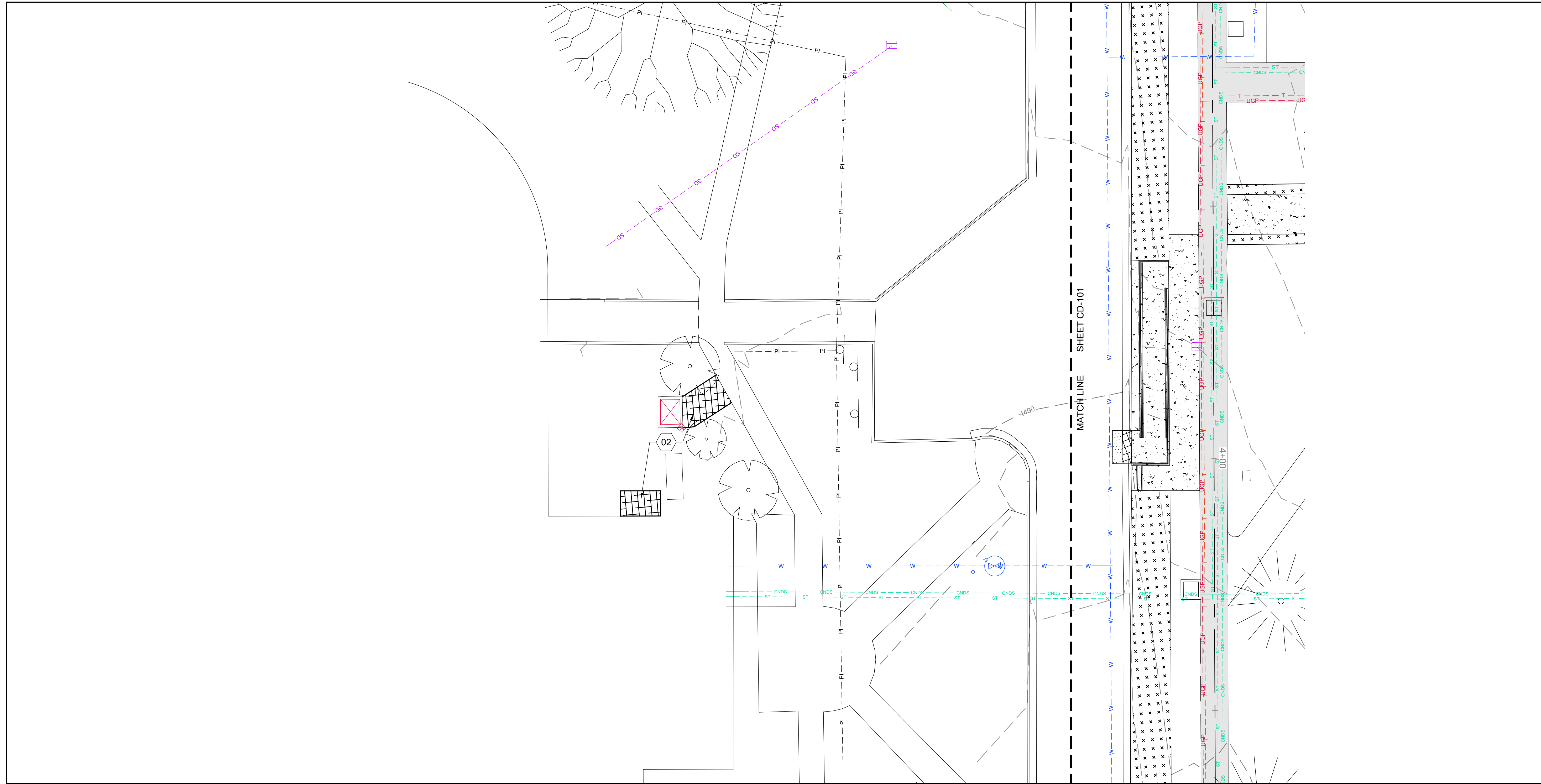
**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

0 10 20

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. CD-107





**SHEET KEYNOTES**

02 DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"

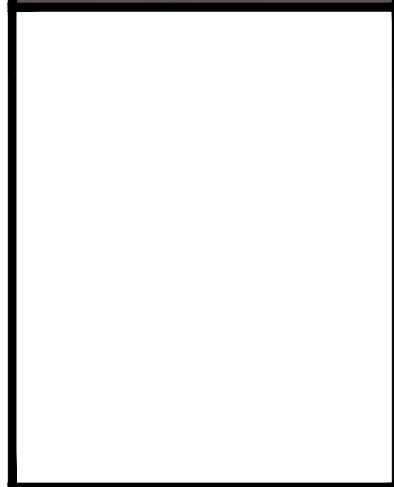
**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
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6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

0 10 20



NO.	REVISIONS	DATE

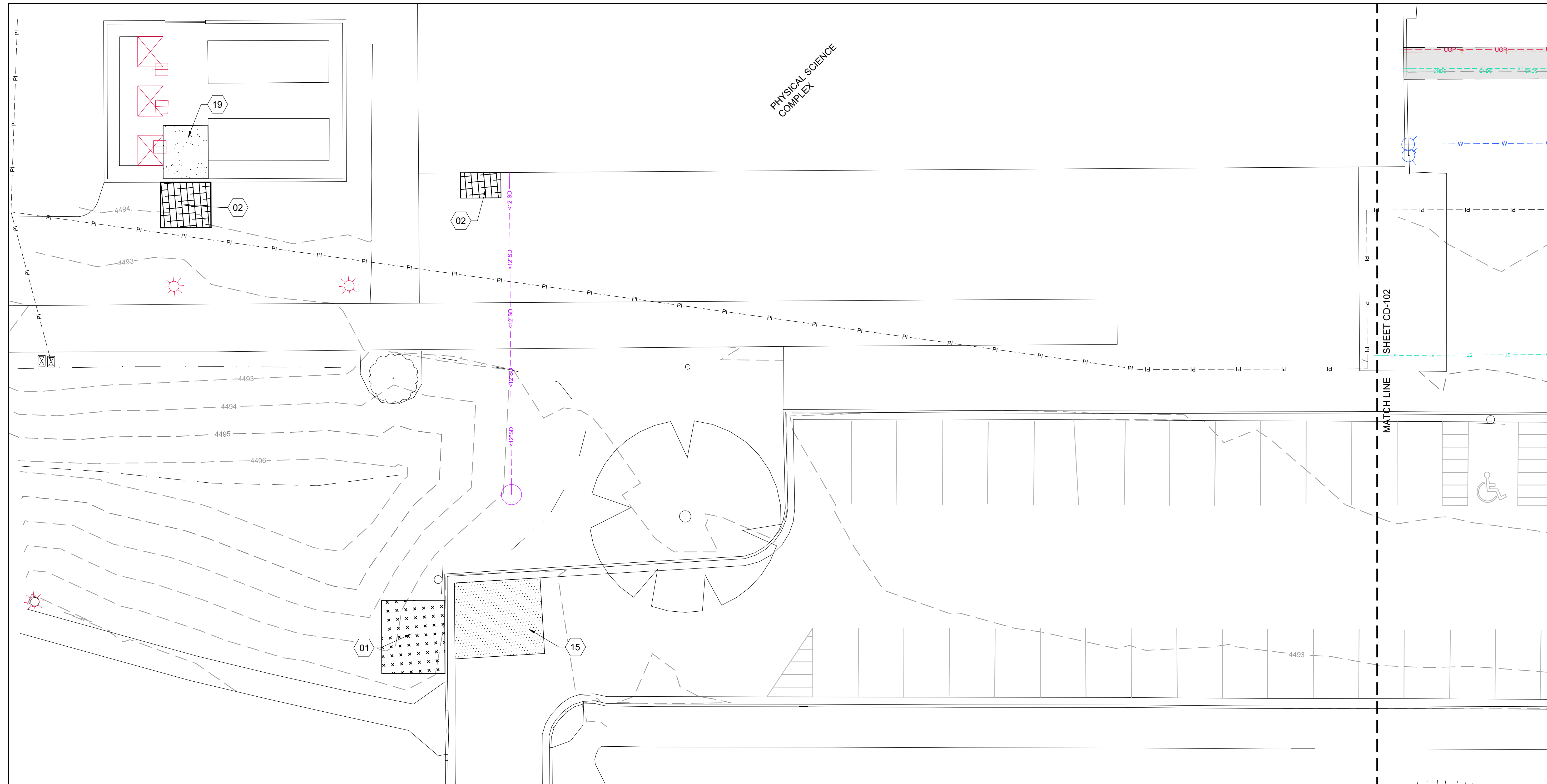
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. CD-108





**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

**SHEET KEYNOTES**

- 01 DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE WISU IRRIGATION PLANS IN "APPENDIX A"
- 02 DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE WISU IRRIGATION PLANS IN "APPENDIX A"
- 15 DEMO, SAWCUT AND REMOVE ASPHALT PAVING
- 19 DEMO, REMOVE GRAVEL SURFACE AS REQ'D FOR CONSTRUCTION

**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

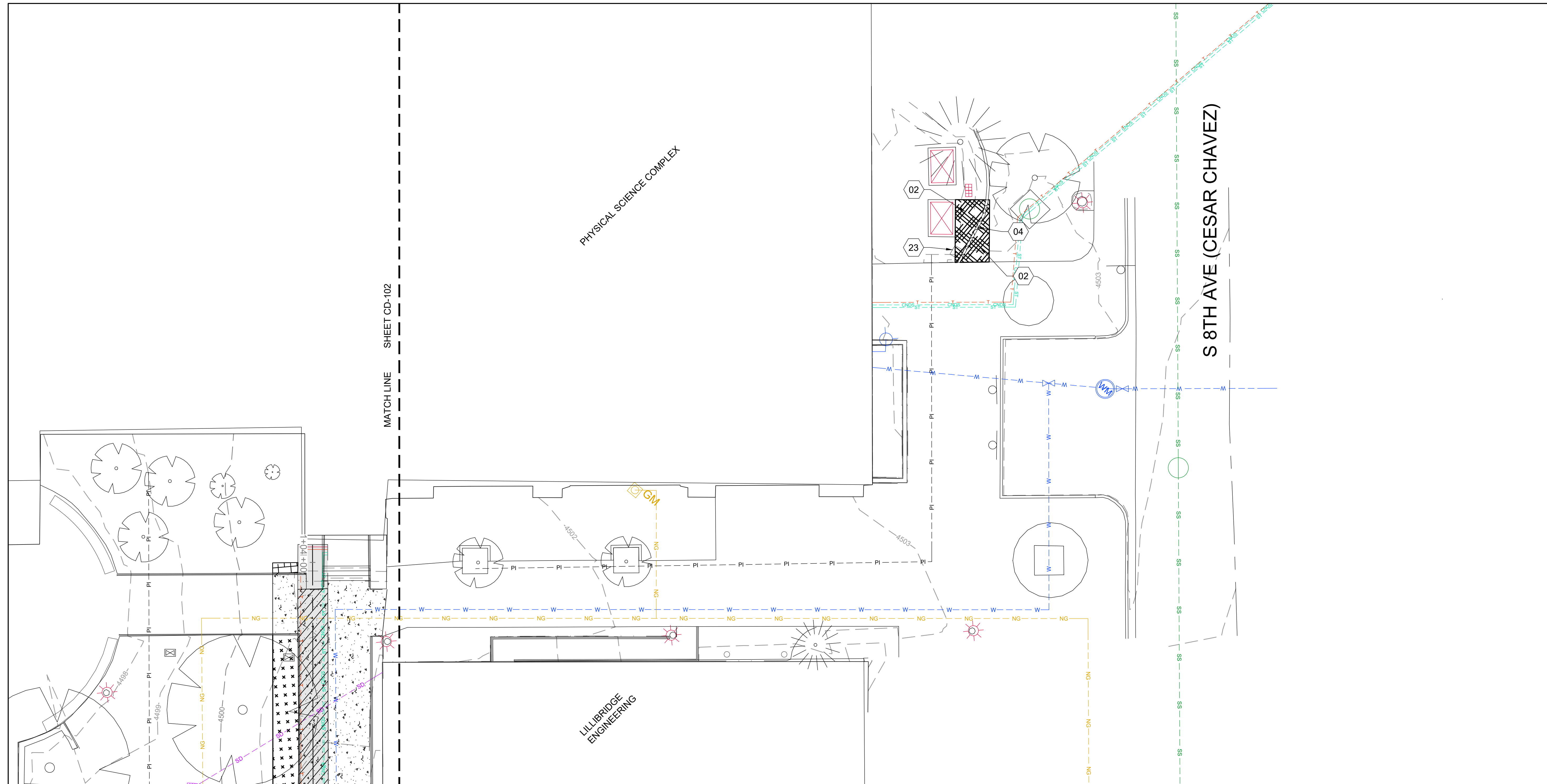
**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

0 10 20

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
**CD-109**





**SHEET KEYNOTES**

- 02 DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
- 04 DEMO, SAWCUT AND REMOVE CURB WALL
- 23 DEMO, REMOVE MEMORIAL MONUMENT, RETURN TO OWNER

**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		



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**DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL**

**IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. CD-110





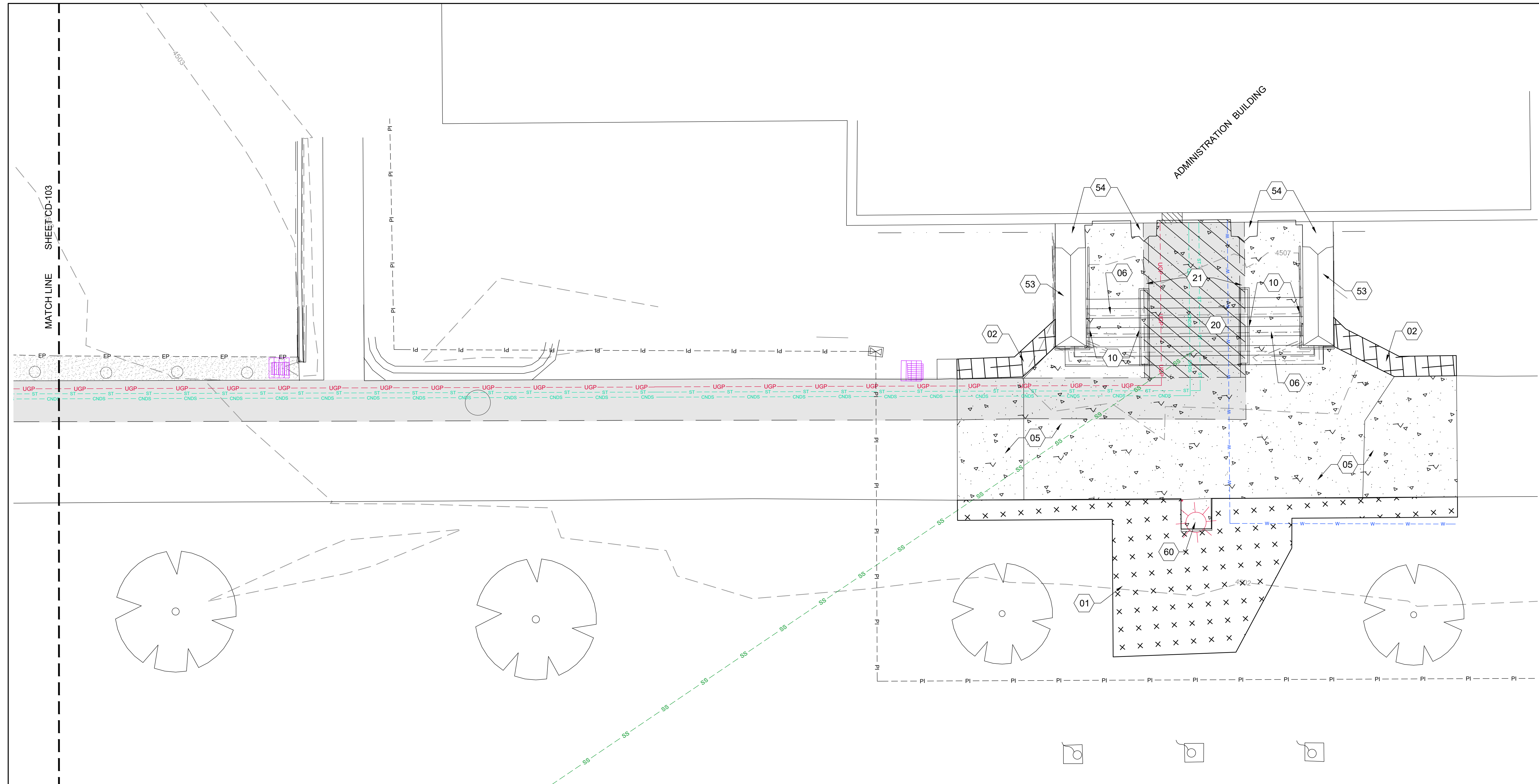
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
DEMOLITION PLAN

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. CD-111



SHEET KEYNOTES	
01	DEMO, REMOVE LANDSCAPING, (SOD)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
02	DEMO, REMOVE LANDSCAPING, (MULCH)/IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"
05	DEMO, SAWCUT AND REMOVE SIDEWALK
06	DEMO, SAWCUT AND REMOVE STAIRS
10	DEMO, REMOVE RAILINGS
20	DEMO, REMOVE STAIRS/CAP OVER UTILITY VAULT
21	DEMO, REMOVE UTILITY VAULT WALLS
53	PRESERVE & PROTECT, STAIRWAY ABUTMENT WALL
54	PRESERVE & PROTECT, BUILDING, WALLS, BRICK, DOORS, GLASS, ETC.
60	PRESERVE AND PROTECT LIGHT POLE

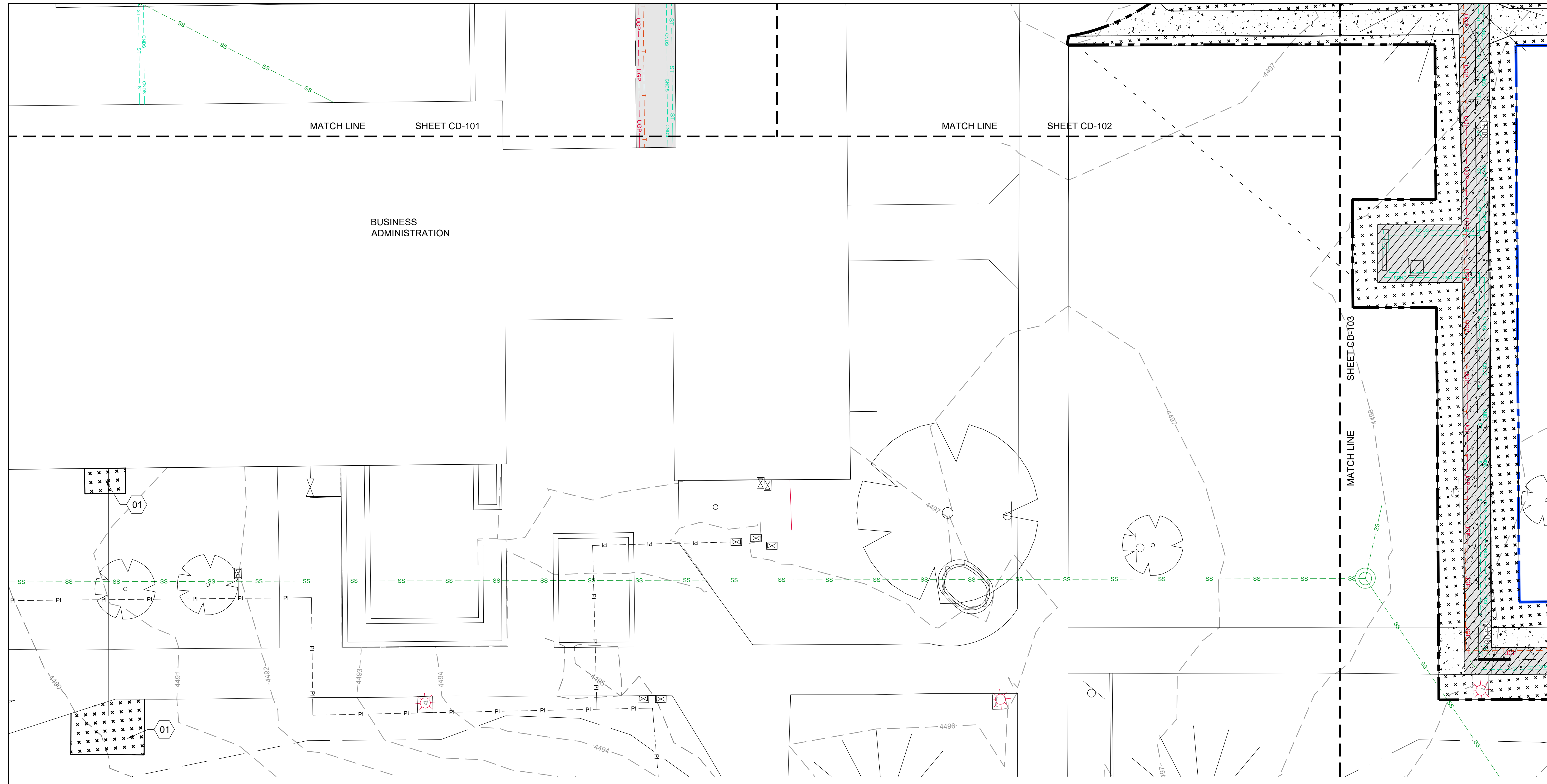
- EXISTING SITE NOTES**
- SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
  - SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
  - PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
  - CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
  - IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
  - FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

Scale: 0 5 10 feet  
North Arrow





**SHEET KEYNOTES**

01 DEMO. REMOVE LANDSCAPING, (SOD) IRRIGATION SYSTEM AS REQUIRED FOR CONSTRUCTION. COORDINATE W/ISU IRRIGATION PLANS IN "APPENDIX A"

**EXISTING SITE NOTES**

1. SEE MECHANICAL PLANS FOR DEMOLITION OF STEAM AND CONDENSATE LINES IN TUNNEL.
2. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL AND COMMUNICATIONS SYSTEMS IN TUNNEL.
3. PRESERVE AND PROTECT SITE AND UTILITY FEATURES OUTSIDE OF THE AREAS NOTED AND NOT CALLED OUT ON THESE PLANS UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO VERIFY ALL INFORMATION ON THESE PLANS IN THE FIELD.
5. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.
6. FOR EXISTING IRRIGATION SYSTEM SEE SHEETS 11, 12, AND 15 IN APPENDIX A.

**HATCH LEGEND**

	ASPHALT DEMO		SOD DEMO
	TUNNEL DEMO		CONCRETE SIDEWALK DEMO
	CURB DEMO		MULCH DEMO
	GRAVEL DEMO		

0 5 10



NO.	REVISIONS	DATE

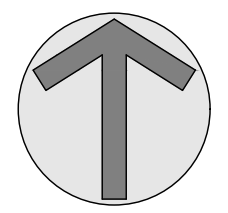
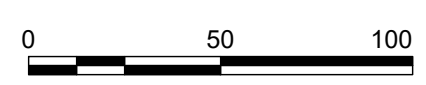
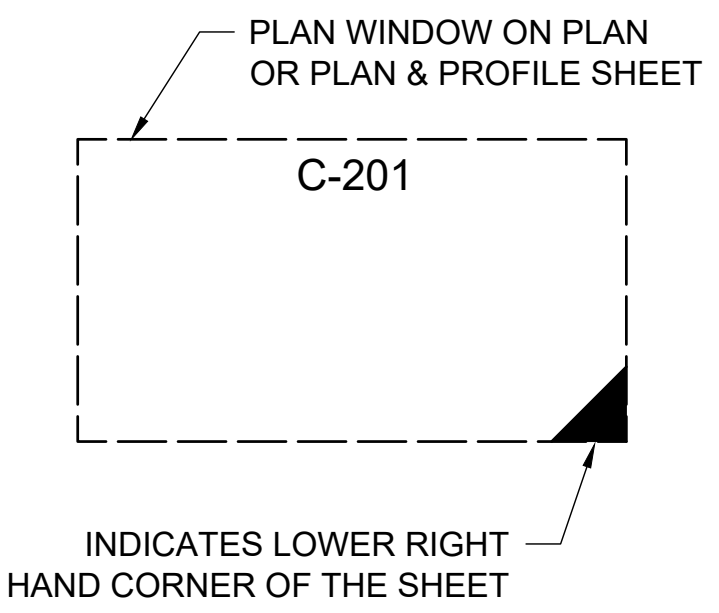
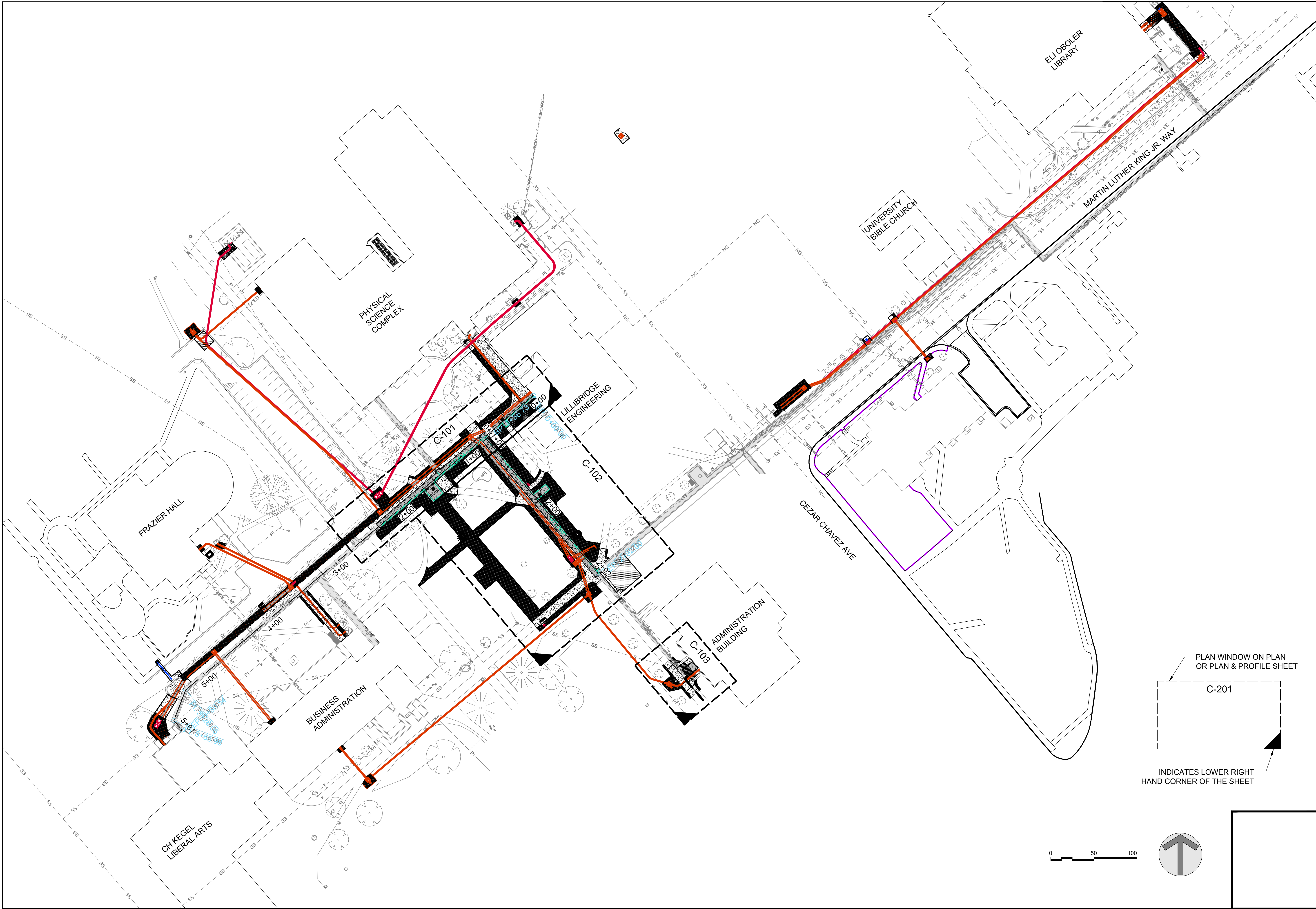
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**DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL**

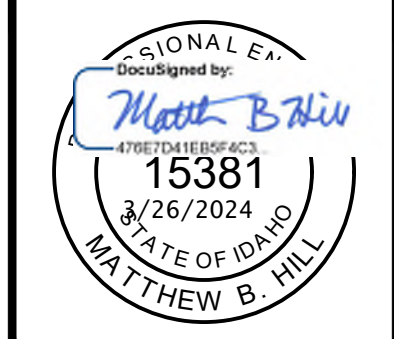
**IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **CD-112**





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
**OVERALL SITE & TUNNEL PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **C-100**



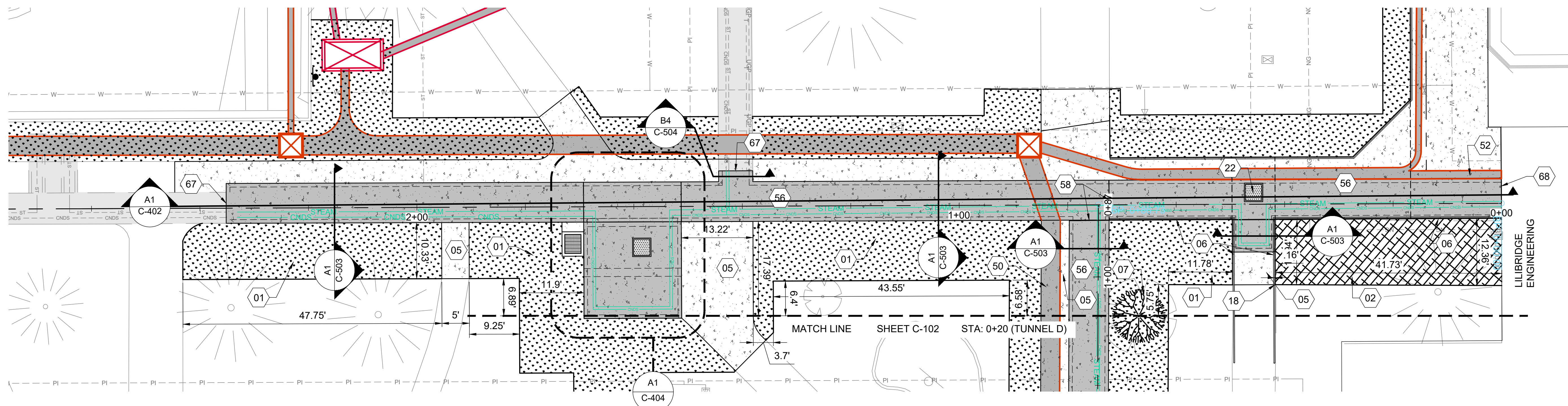
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & TUNNEL PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
**C-101**

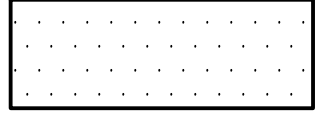

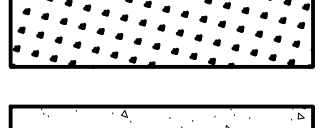




**SHEET KEYNOTES**

- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 06 HANDRAIL AT RAMP, RE: C3/C-505
- 07 INSTALL NEW TREE, (PACIFIC SUNSET MAPLE, ACER X PACIFICA SUNSET) 1.5" OR LARGER CALIPER, B&B OR CONTAINER, MULTI-TRUNK, FULL, EVENLY BRANCHED, MATCHED, RE: C4/C-501
- 18 TIE TO EXISTING SIDEWALK
- 22 ACCESS HATCH, RE: A1/C-507
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS

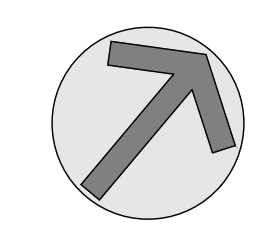
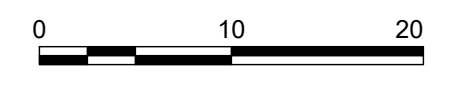
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 56 NEW CONCRETE TUNNEL
- 58 TUNNEL CONSTRUCTION JOINT, RE: C3 & B1/C-504
- 67 CONNECT NEW TUNNEL TO EXISTING TUNNEL, RE: C4/C-504
- 68 PLACE WATER STOP BETWEEN END OF NEW TUNNEL AND BUILDING FOR WALLS, FLOORS, AND ROOF DECK

**HATCH LEGEND**

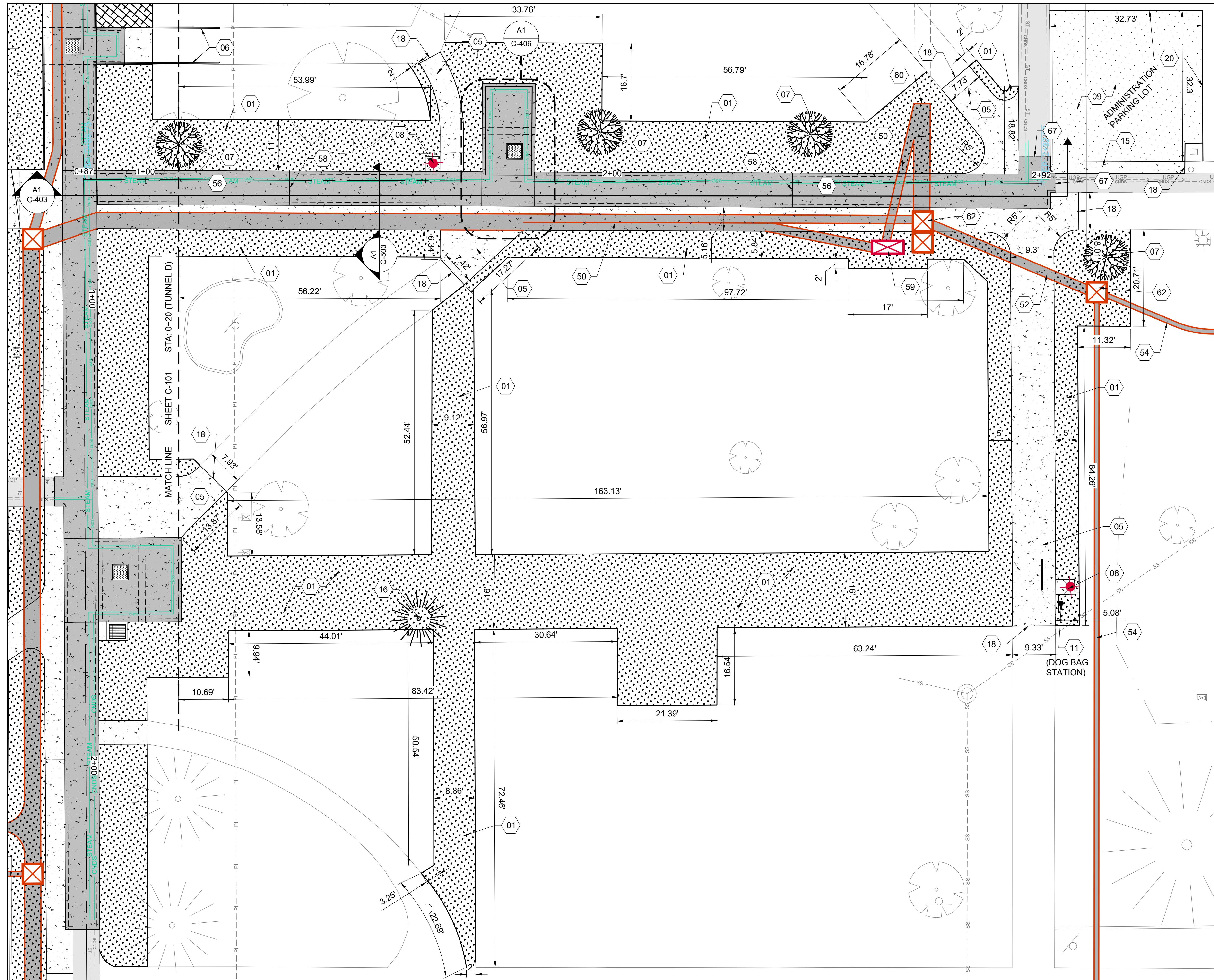
-  ASPHALT
-  NEW TUNNEL
-  SOD
-  CONCRETE
-  MULCH

**SITE NOTES**

1. COORDINATE WITH MECHANICAL PLANS FOR NEW STEAM AND CONDENSATE LINES AND VENTILATION SYSTEM.
2. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL AND COMMUNICATIONS SYSTEMS.
3. SEE SHEETS C-300 THROUGH C-316 FOR POWER AND COMMUNICATIONS CONDUIT PLANS AND PROFILES.







### SHEET KEYNOTES

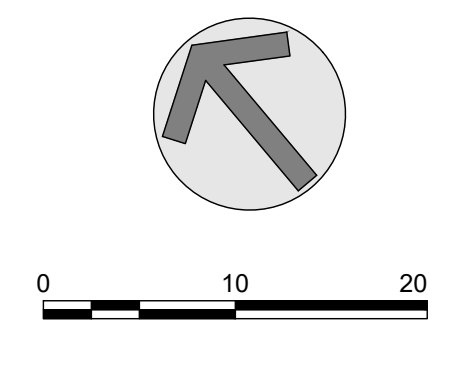
- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 06 HANDRAIL AT RAMP, RE: C3/C-505
- 07 INSTALL NEW TREE, (PACIFIC SUNSET MAPLE, ACER X PACIFICA SUNSET) 1.5" OR LARGER CALIPER, B&B OR CONTAINER, MULTI-TRUNK FULL, EVENLY BRANCHED, MATCHED, RE: C4/C-501
- 08 RE-INSTALL LIGHT POLE, RE: A4/C-501
- 09 ASPHALT REPAIR, RE: C3/C-501
- 11 REINSTALL SIGN, RE: B1/C-502
- 15 THICKENED EDGE SIDEWALK, RE: B1/C-501
- 16 INSTALL NEW TREE, (COLORADO BLUE SPRUCE, PICEA PUNGENS) 12-14' TALL, RE: C4/C-501
- 18 TIE TO EXISTING SIDEWALK
- 20 ASPHALT TIE IN, RE: B4/C-502
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 56 NEW CONCRETE TUNNEL
- 58 TUNNEL CONSTRUCTION JOINT, RE: C3 & B1/C-504
- 59 ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS
- 60 CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 67 CONNECT NEW TUNNEL TO EXISTING TUNNEL, RE: C4/C-504

### HATCH LEGEND

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

### SITE NOTES

1. COORDINATE WITH MECHANICAL PLANS FOR NEW STEAM AND CONDENSATE LINES AND VENTILATION SYSTEM.
2. COORDINATE WITH ELECTRICAL PLANS FOR ELECTRICAL AND COMMUNICATIONS SYSTEMS.
3. SEE SHEETS C-300 THROUGH C-316 FOR POWER AND COMMUNICATIONS CONDUIT PLANS AND PROFILES.



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DESIGNED BY:  
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 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

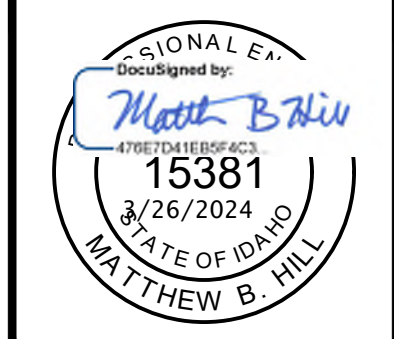
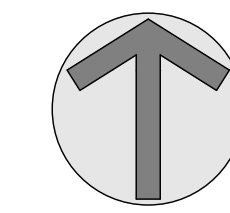
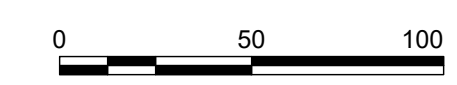
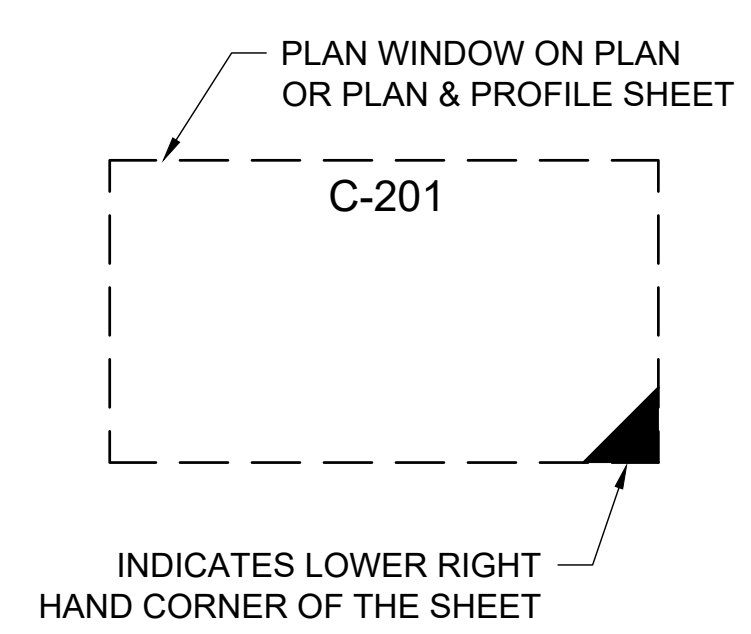
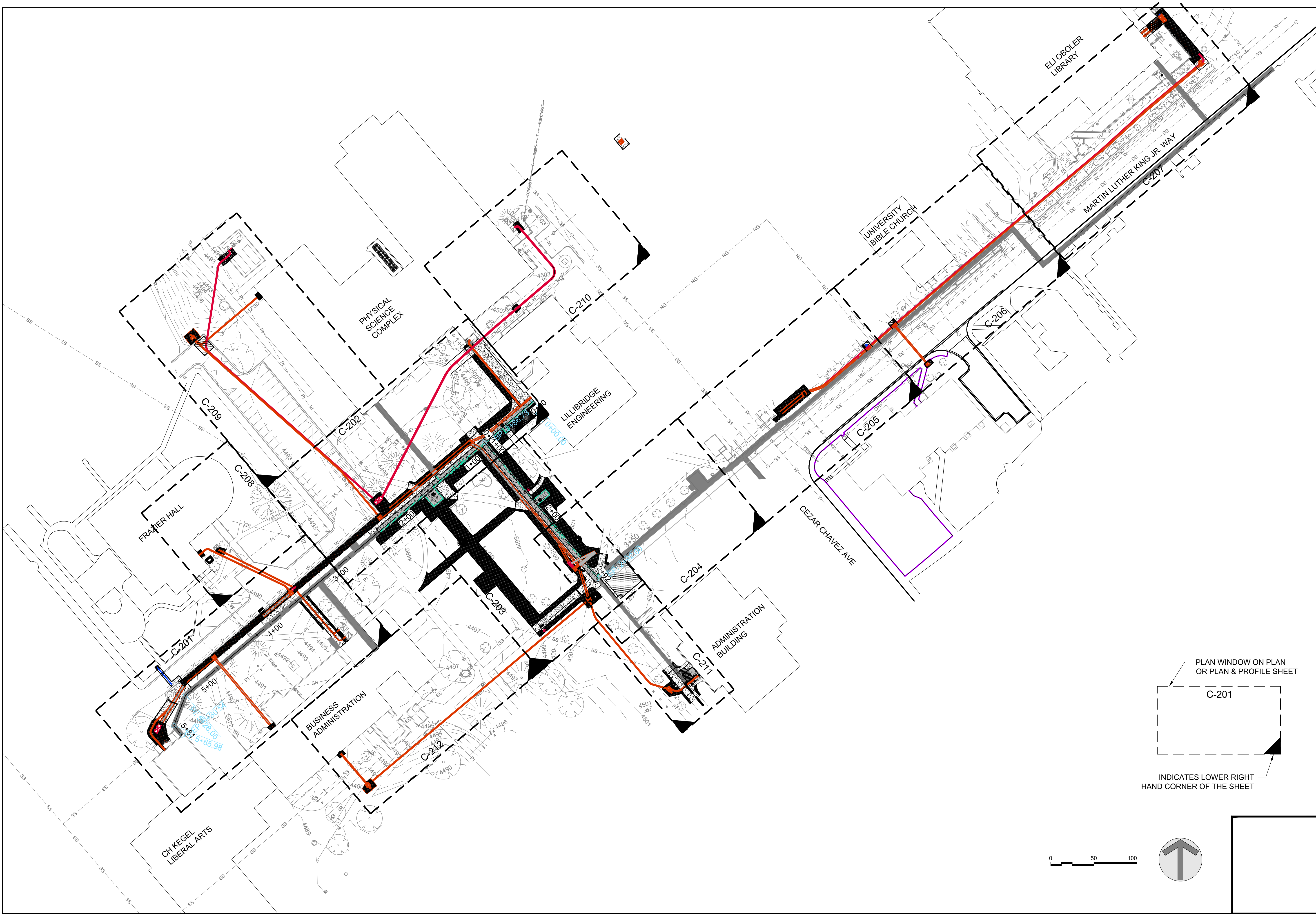
IDAHO STATE UNIVERSITY  
**SITE & TUNNEL PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
**C-102**









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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
**OVERALL GRADING PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **C-200**



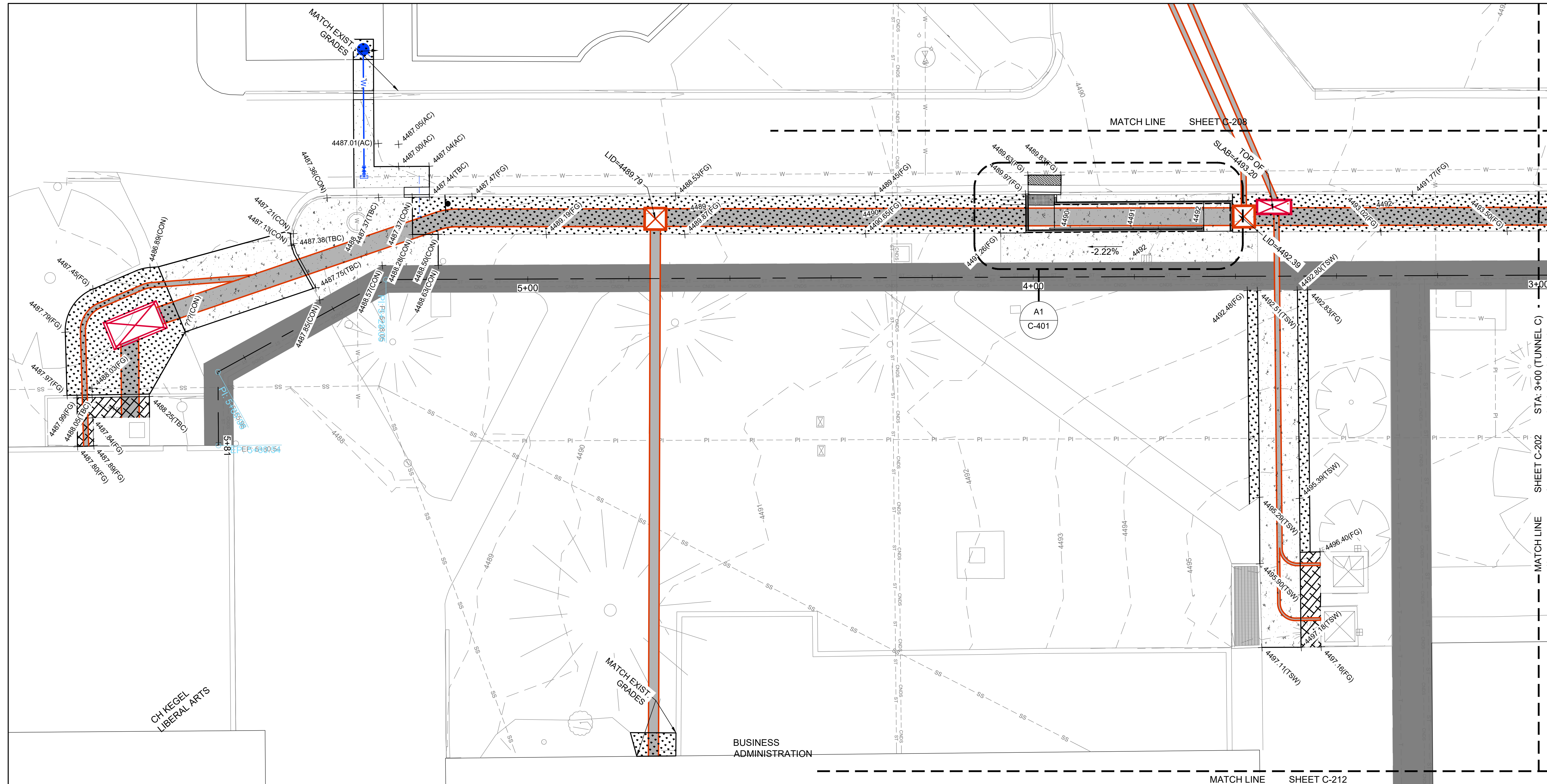


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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN



**HATCH LEGEND**

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

**GRADING LEGEND**

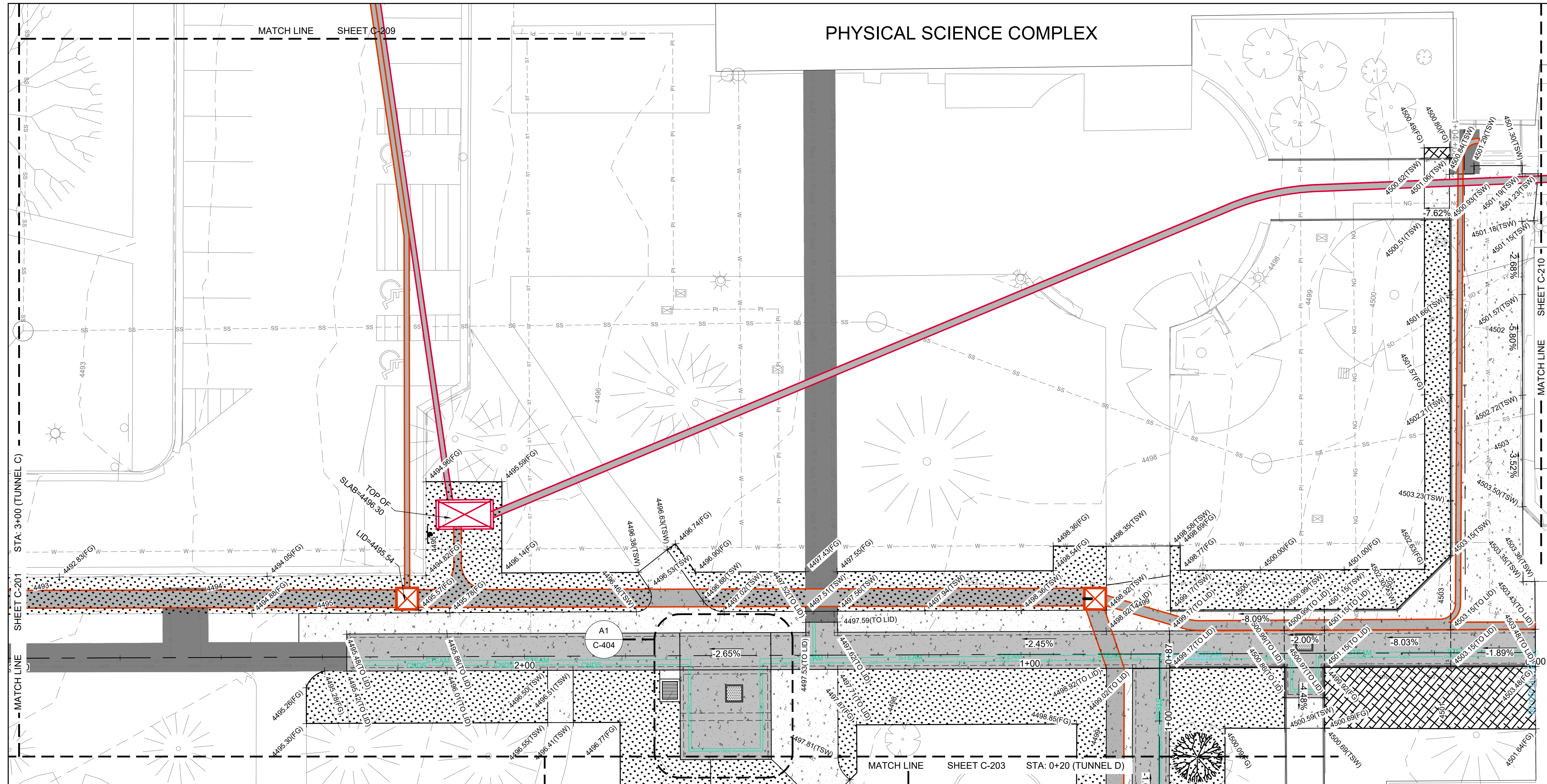
TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

Scale bar: 0, 10, 20 feet. North arrow pointing up and slightly right.

DRAWN: KJW / CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-201



# PHYSICAL SCIENCE COMPLEX



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 (208) 238-2146

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

HATCH LEGEND	
	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

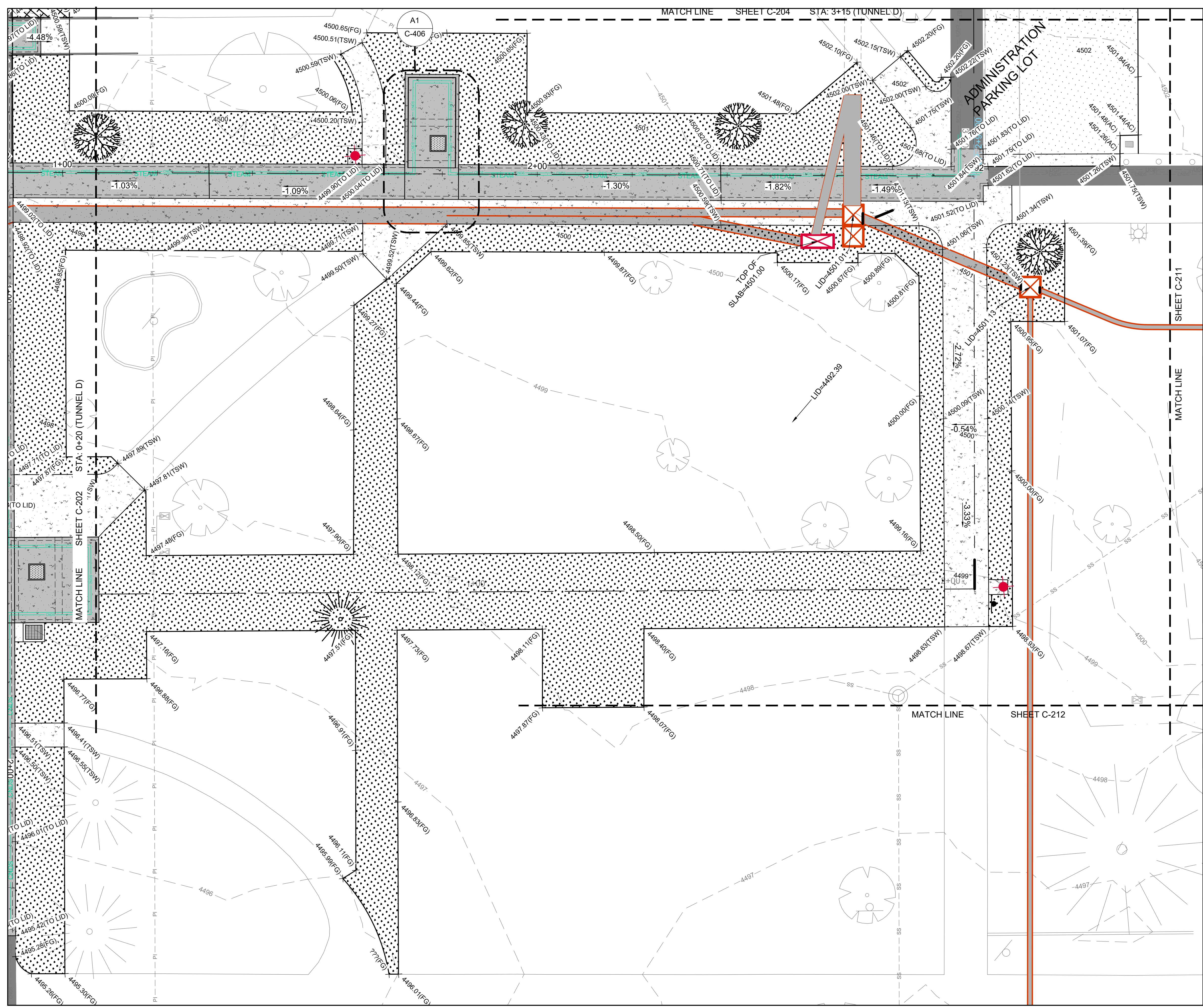
1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

GRADING LEGEND	
TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

0 10 20

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
**C-202**





### HATCH LEGEND

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

### GRADING NOTES

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

### GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

PROFESSIONAL ENGINEER  
 Registered by:  
**Matthew B. Hill**  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

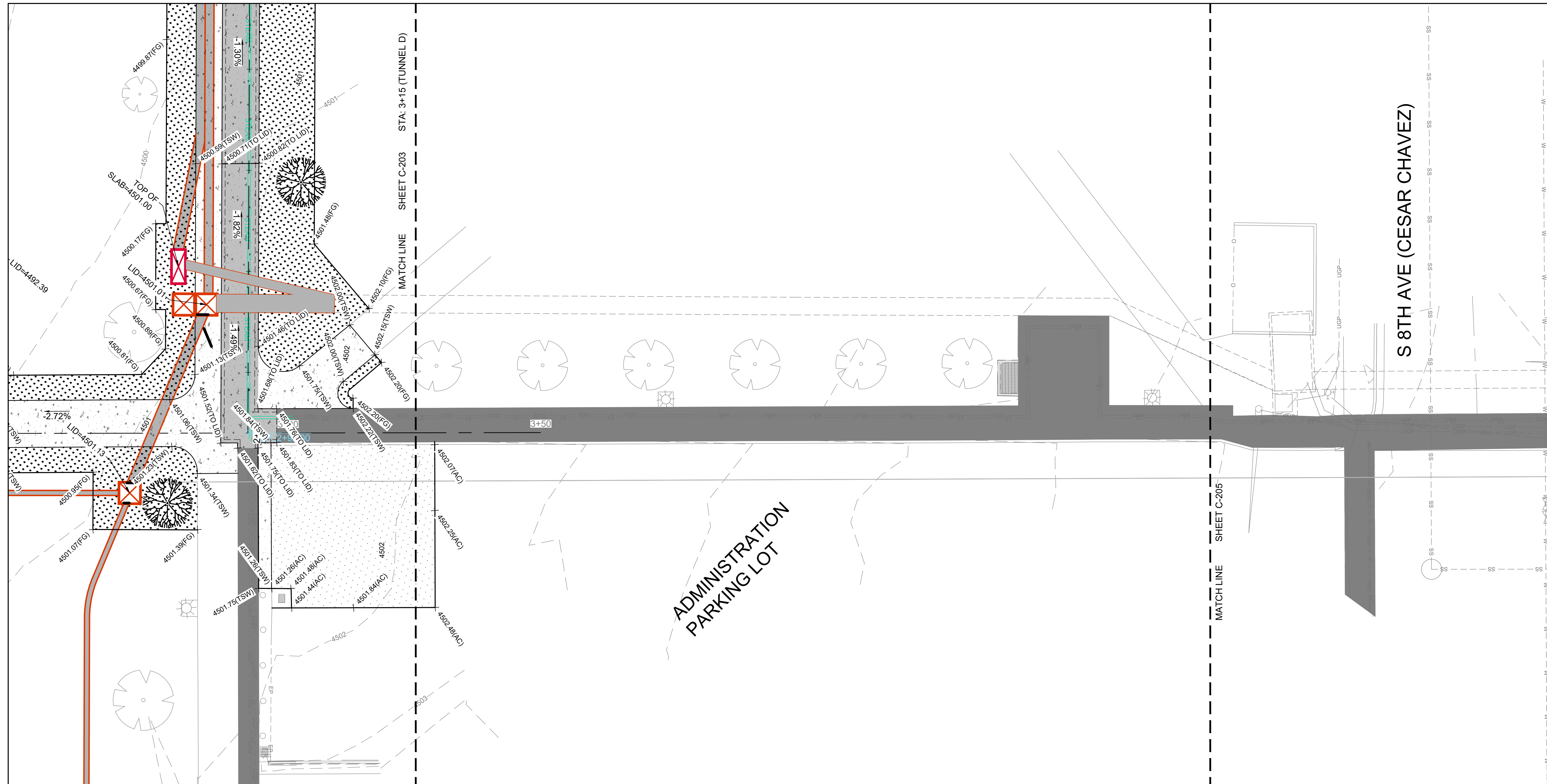
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
**GRADING PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **C-203**



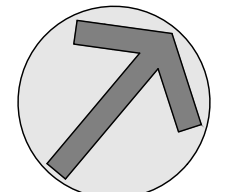
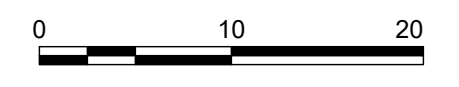


HATCH LEGEND	
	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

- FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

GRADING LEGEND	
TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE



**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

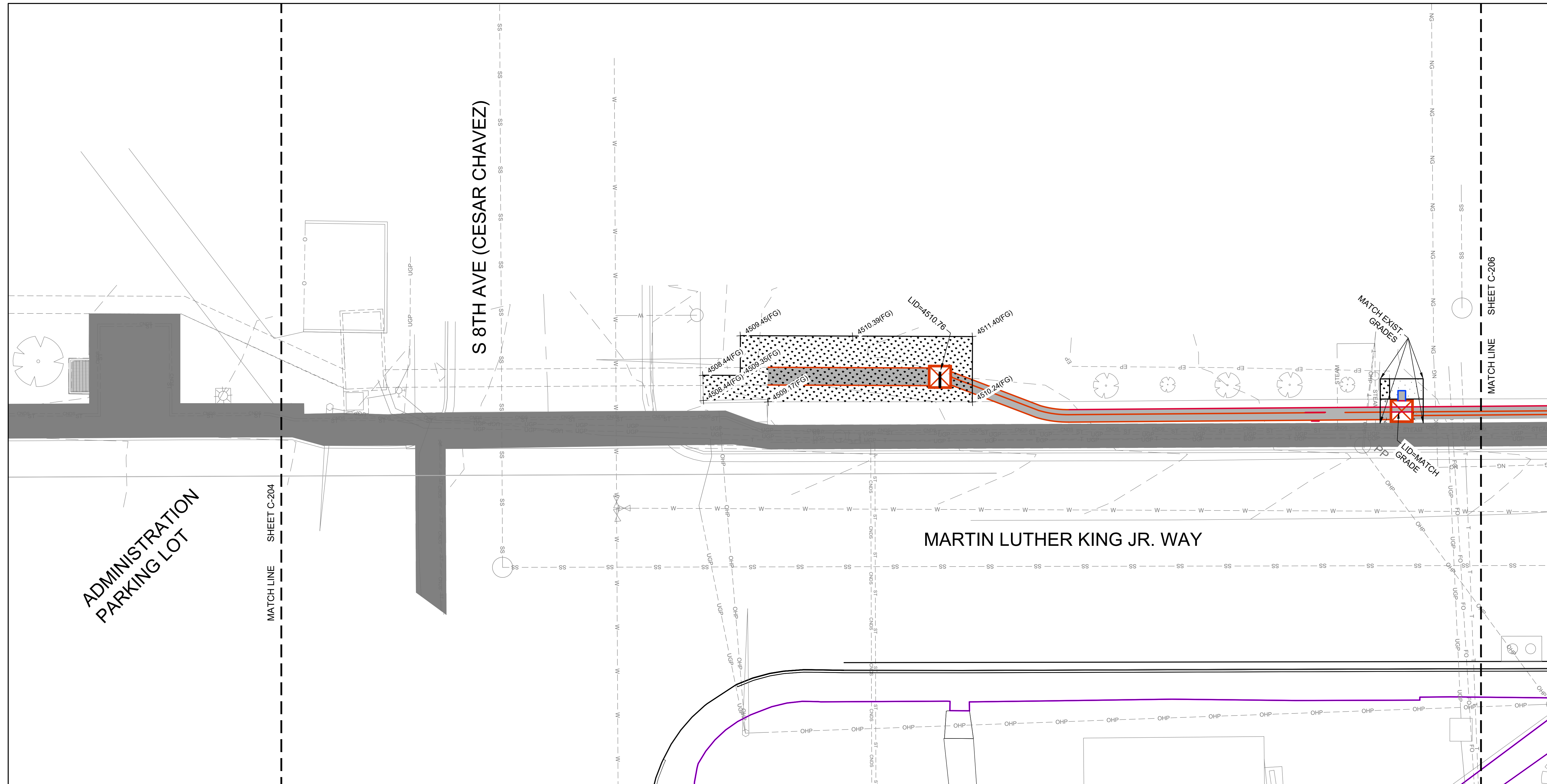
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
**GRADING PLAN**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-204





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*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

**HATCH LEGEND**

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

**GRADING LEGEND**

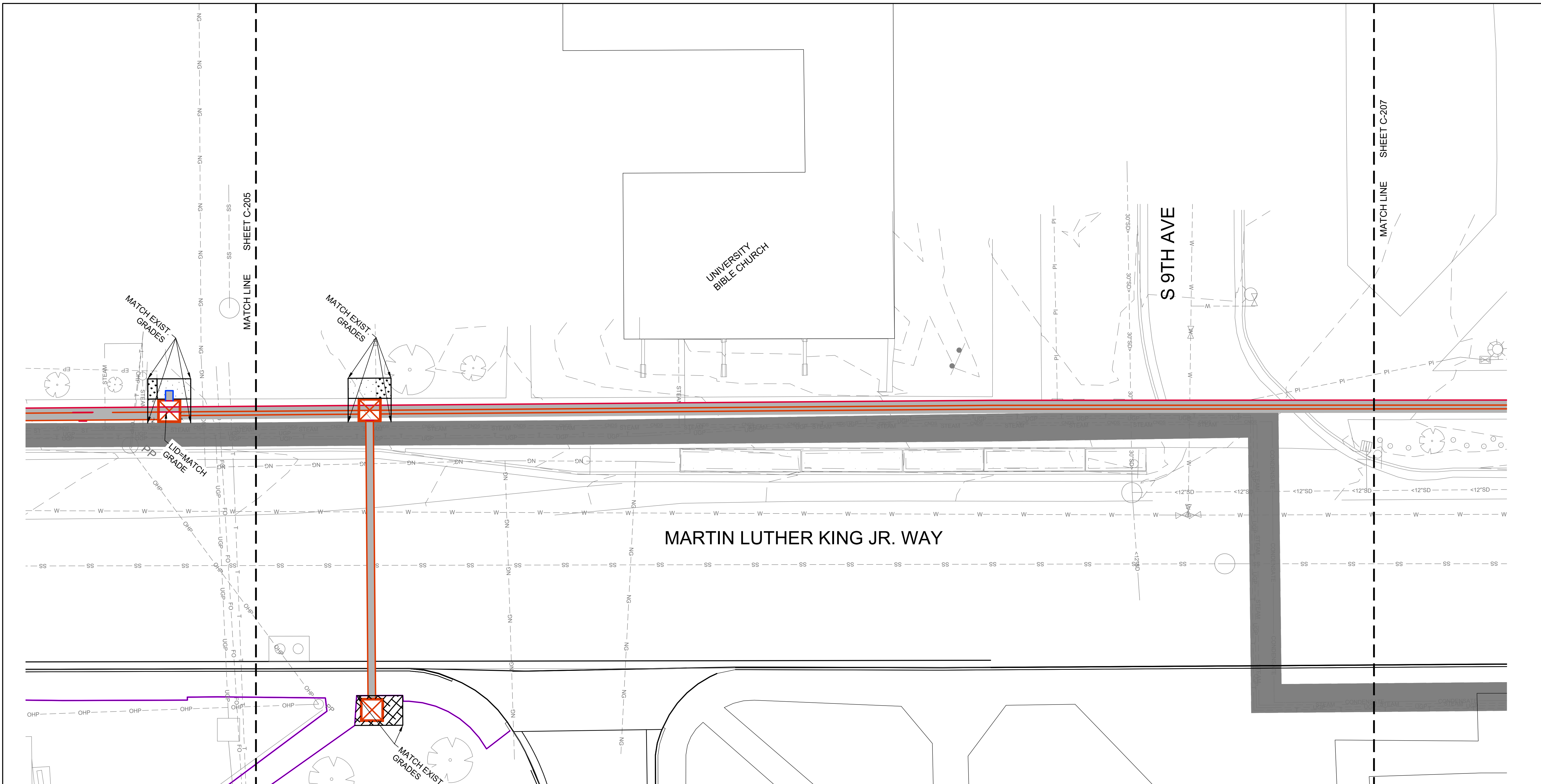
TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

0 10 20

1-1/2 Inches

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-205



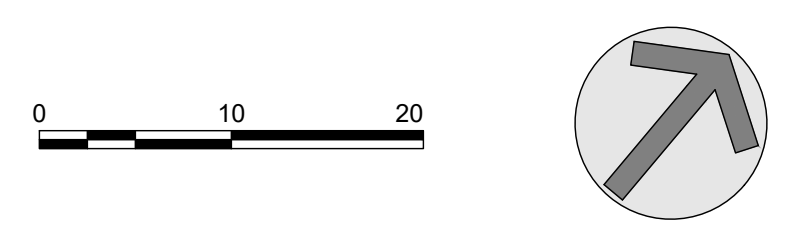


HATCH LEGEND	
	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

GRADING LEGEND	
TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE



NO.	REVISIONS	DATE

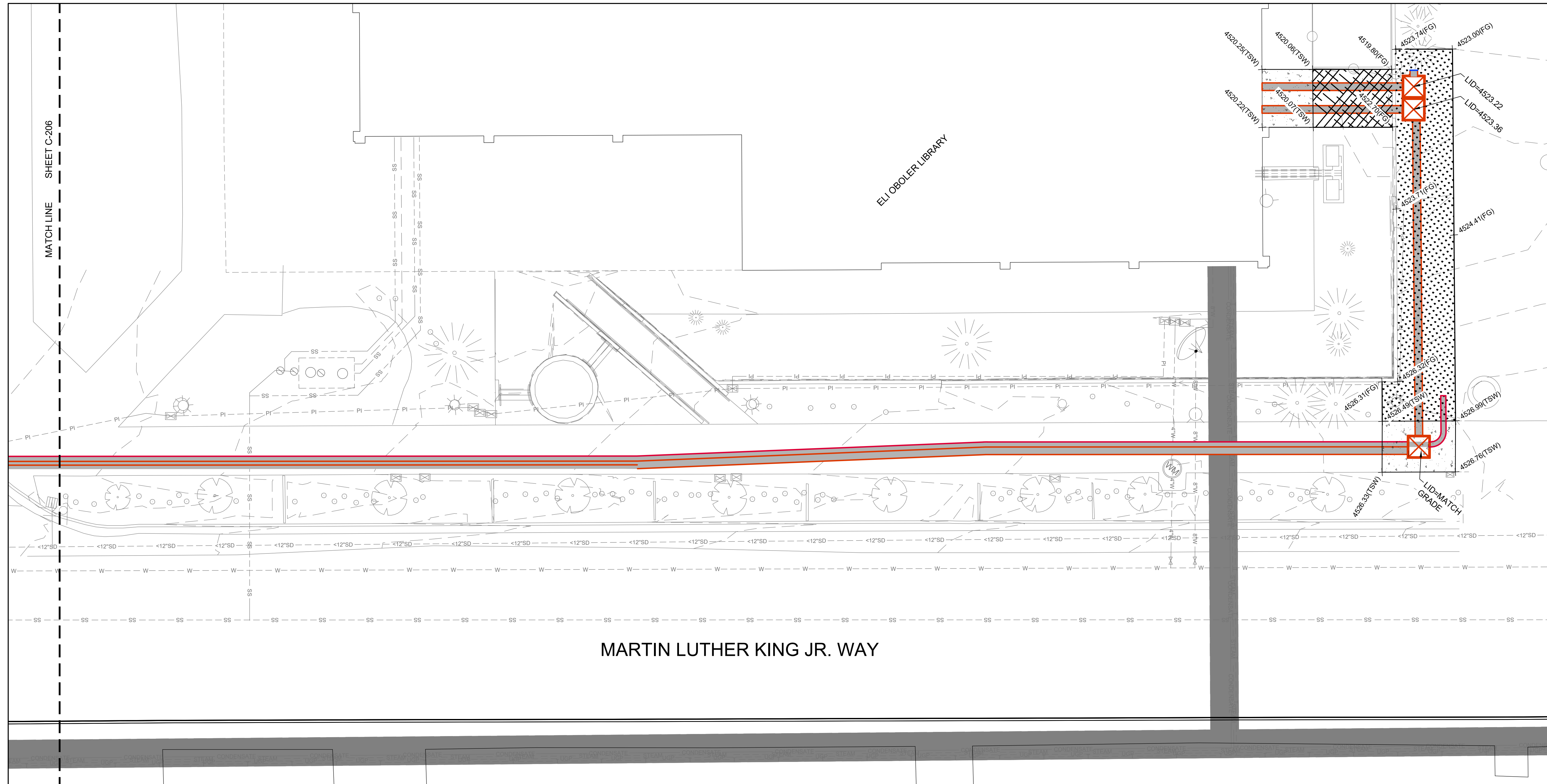
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-206





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 (208) 238-2146

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 15381  
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 STATE OF IDAHO  
 MATTHEW B. HILL

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

**HATCH LEGEND**

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

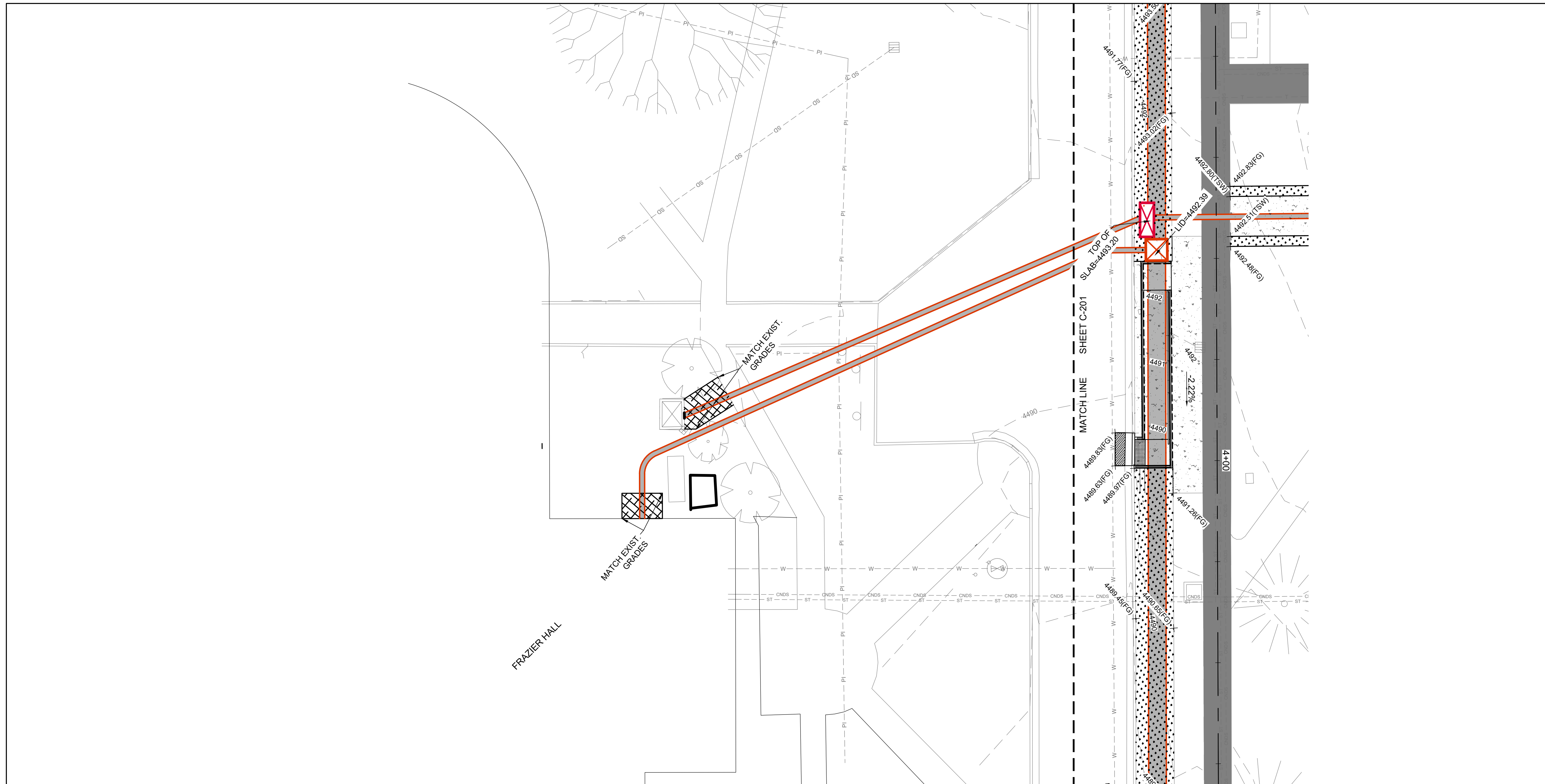
**GRADING LEGEND**

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

0 10 20

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
**C-207**





**HATCH LEGEND**

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

- FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

**GRADING LEGEND**

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

0 10 20

1-1/2 Inches



NO.	REVISIONS	DATE

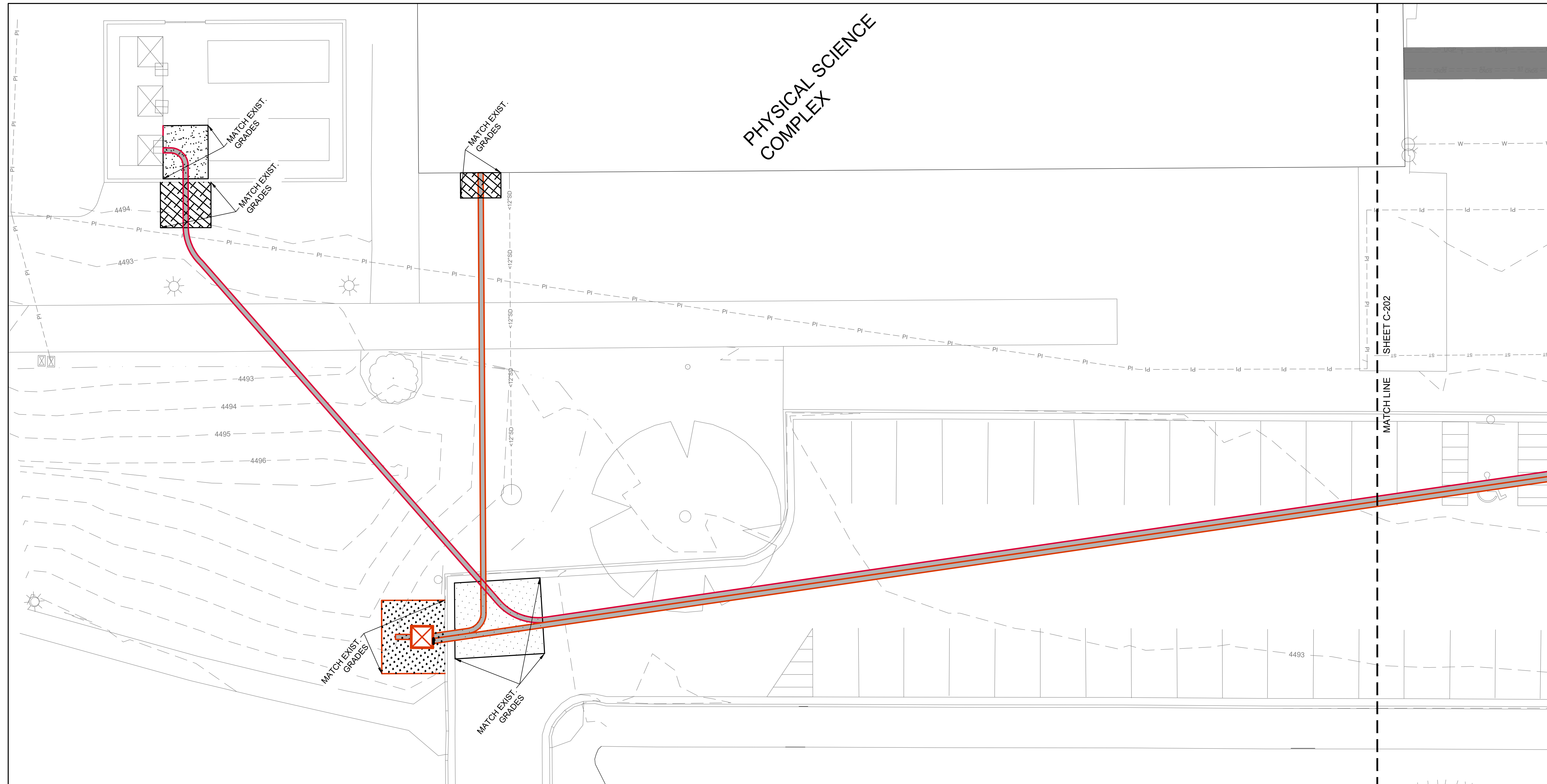
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-208





PHYSICAL SCIENCE  
COMPLEX

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
*Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

HATCH LEGEND	
	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

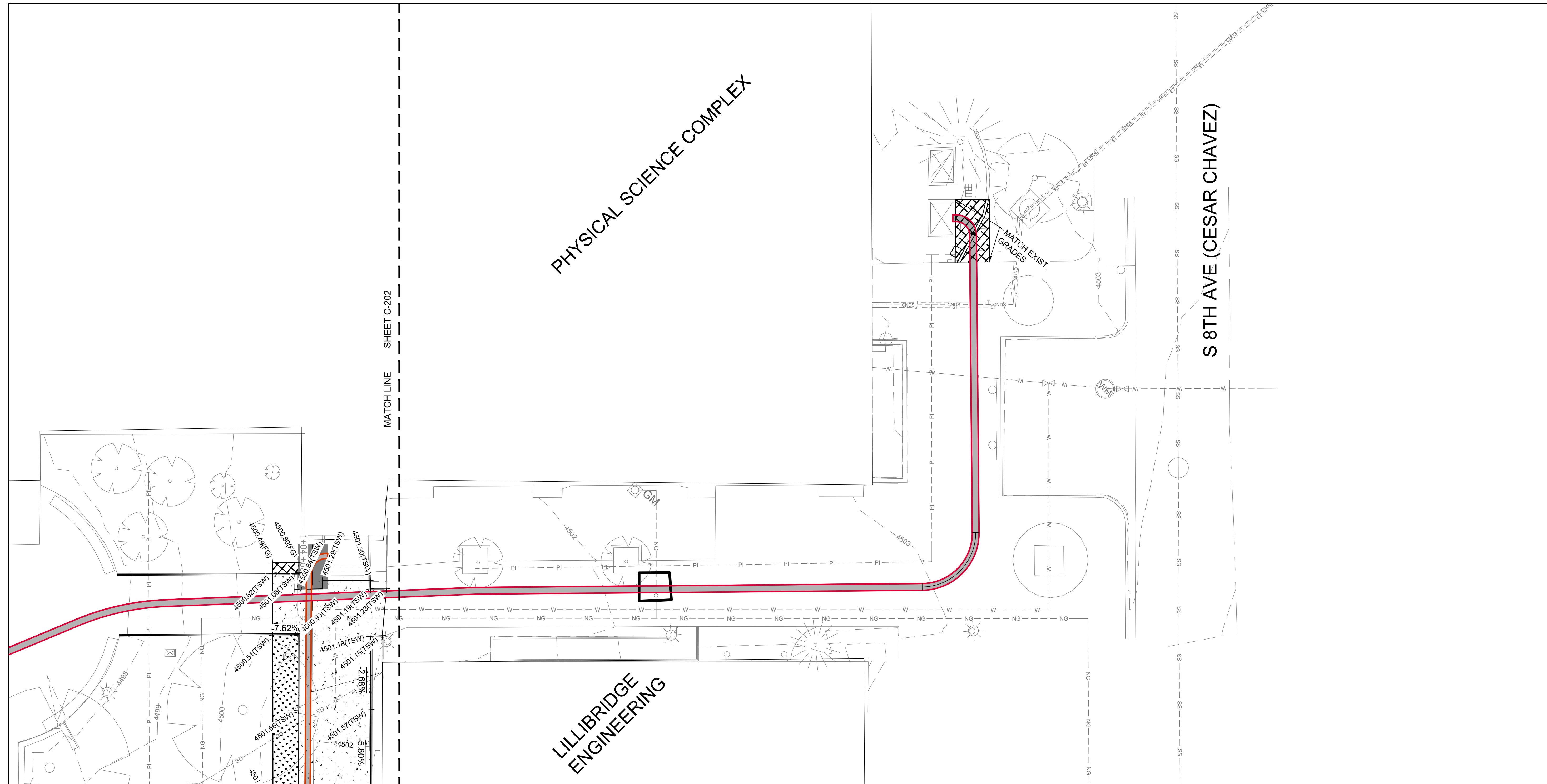
GRADING LEGEND	
TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE

0 10 20

1-1/2 Inches

DRAWN: KJW / CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-209





PHYSICAL SCIENCE COMPLEX

LILLIBRIDGE ENGINEERING

S 8TH AVE (CESAR CHAVEZ)

MATCH LINE SHEET C-202

GRADING NOTES

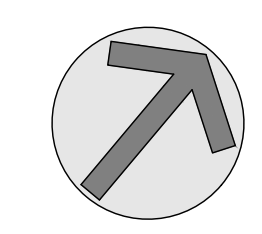
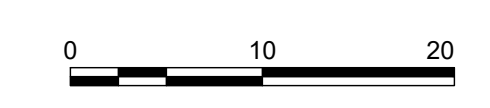
1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

HATCH LEGEND

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

GRADING LEGEND

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE



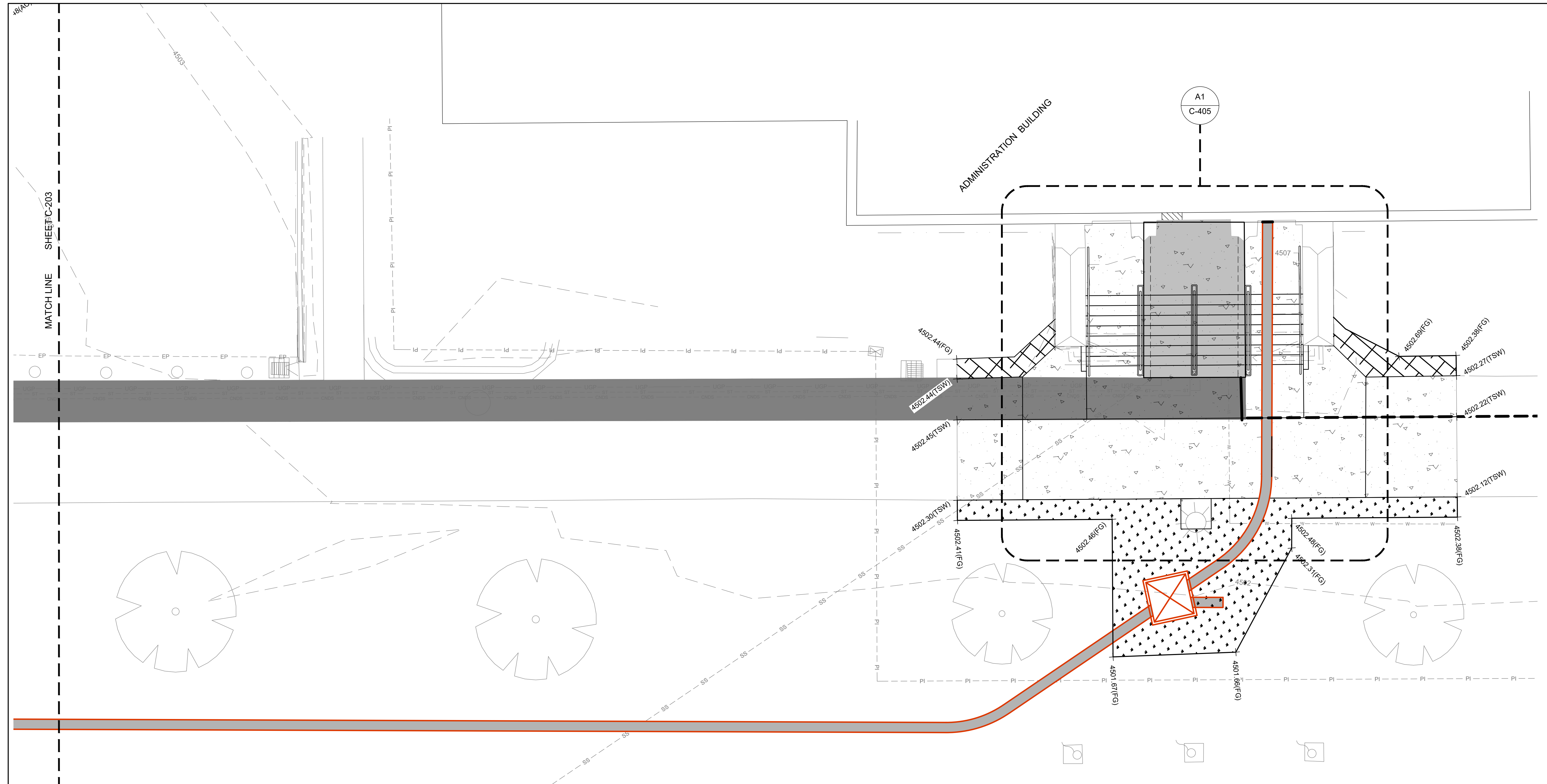
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

**HATCH LEGEND**

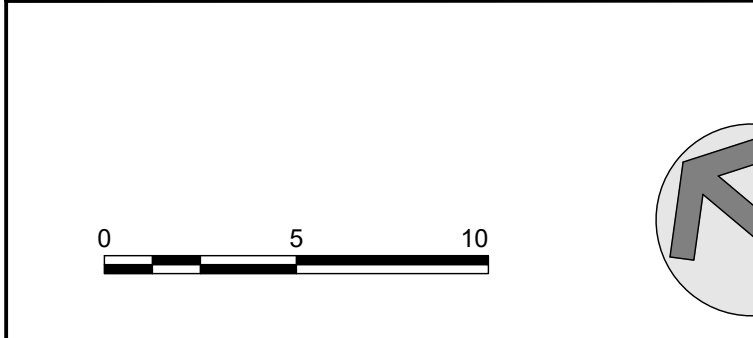
	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**GRADING NOTES**

- FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

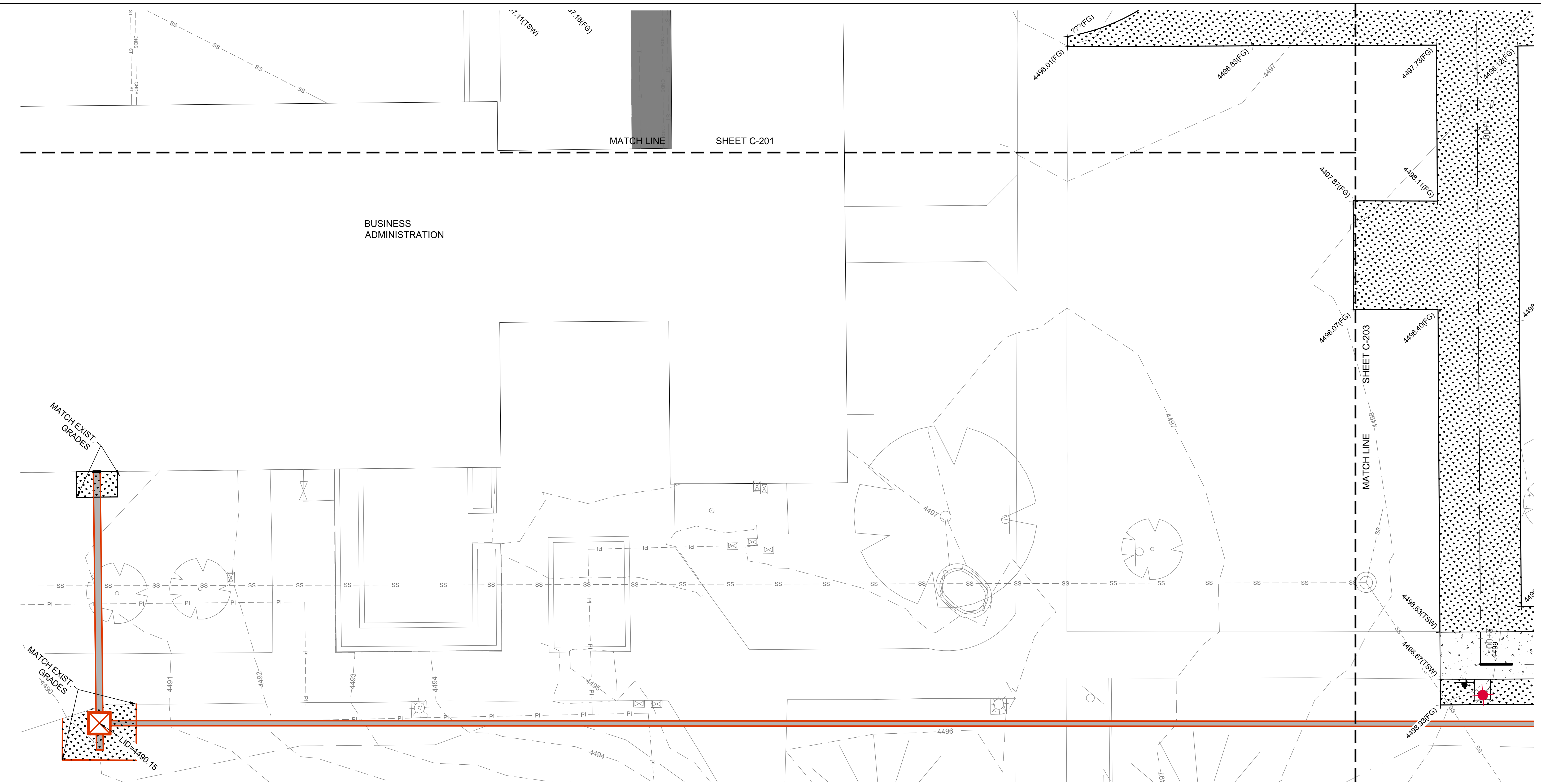
**GRADING LEGEND**

TBC	TOP BACK OF CURB
CON	TOP OF CONCRETE
TSW	TOP OF SIDEWALK
AC	TOP OF ASPHALT
TO LID	TOP OF TUNNEL LID
FG	FINISH GRADE



DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-211



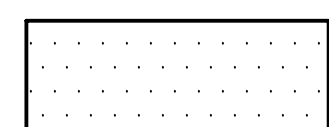
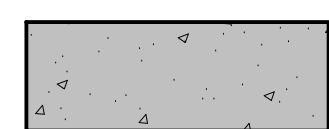
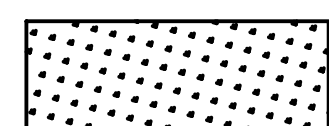
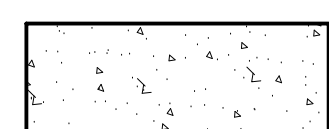



BUSINESS ADMINISTRATION

MATCH LINE SHEET C-201

MATCH LINE SHEET C-203

HATCH LEGEND

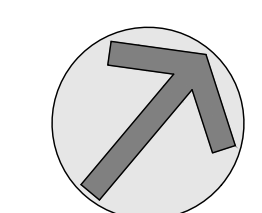
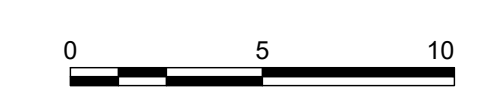
-  ASPHALT
-  NEW TUNNEL
-  SOD
-  CONCRETE
-  MULCH

GRADING NOTES

1. FINISH GRADES ARE INTENDED TO BE MATCH EXISTING GRADES PRIOR TO CONSTRUCTION. IF GRADES ON PLANS DO NOT MATCH GRADES IN THE FIELD, CONTRACT THE ENGINEER OR RECORD.

GRADING LEGEND

- TBC TOP BACK OF CURB
- CON TOP OF CONCRETE
- TSW TOP OF SIDEWALK
- AC TOP OF ASPHALT
- TO LID TOP OF TUNNEL LID
- FG FINISH GRADE



**KELLER ASSOCIATES**  
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 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

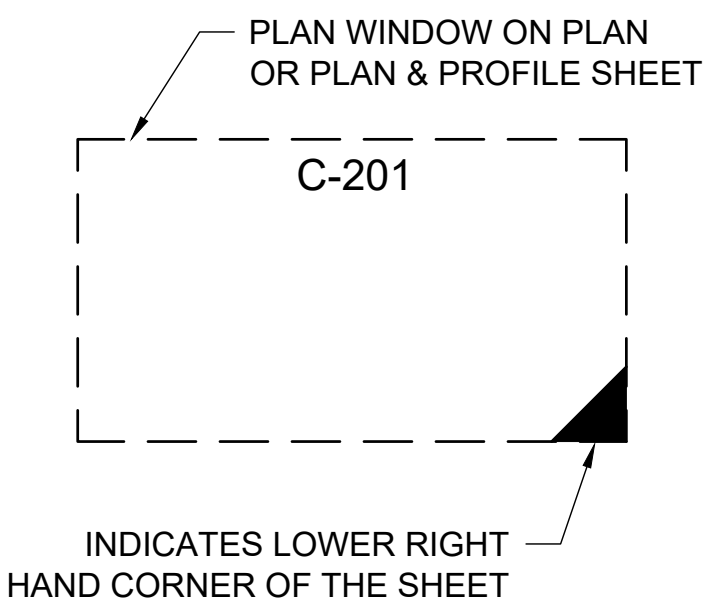
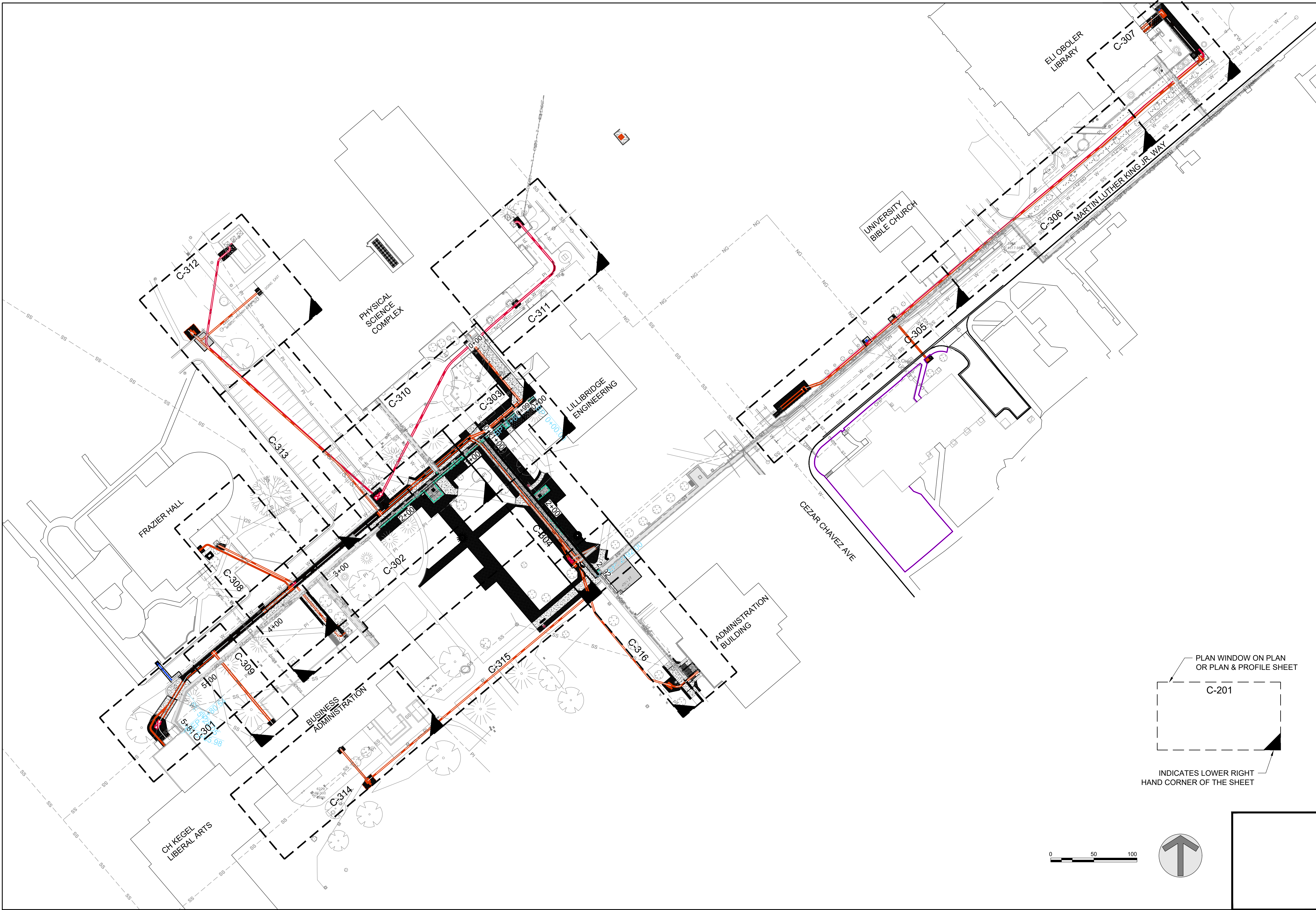
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 GRADING PLAN

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO. 208106-088  
 SHEET NO. C-212





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305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146

PROFESSIONAL ENGINEER  
Matthew B. Hill  
15381  
3/26/2024  
STATE OF IDAHO  
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

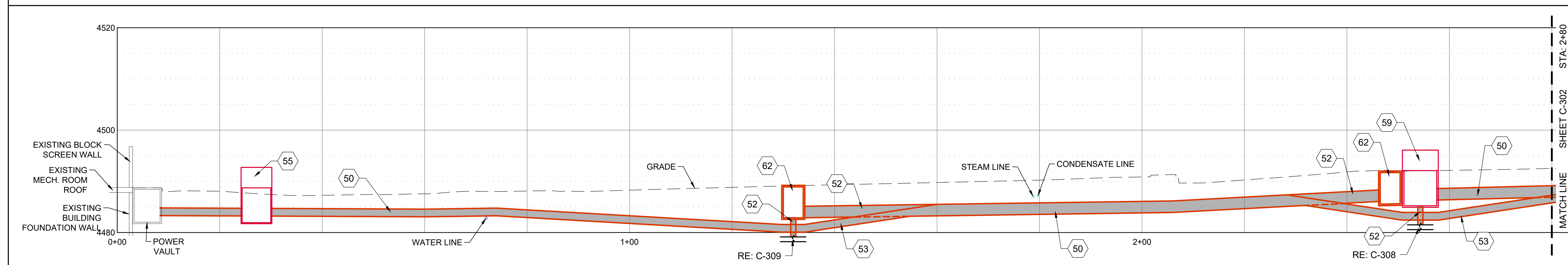
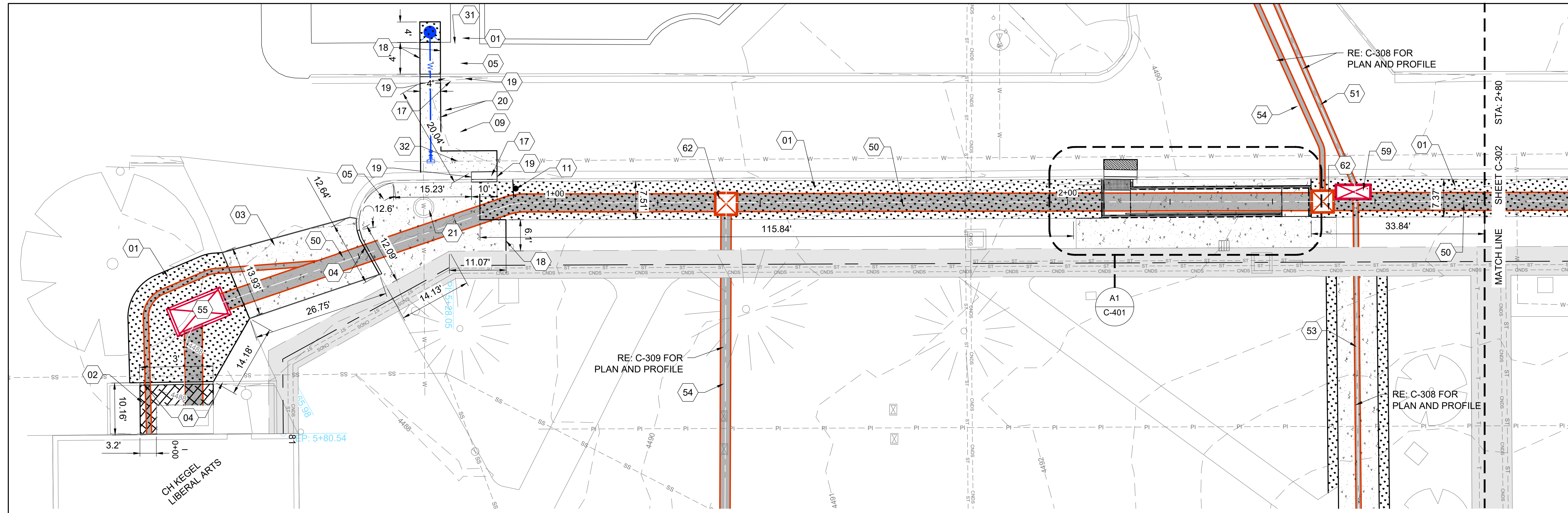
IDAHO STATE UNIVERSITY  
OVERALL SITE & CONDUIT BANK PLAN

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-300



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**SHEET KEYNOTES**

- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 03 CONCRETE PAVING, HEAVY DUY, RE: C1/C-501
- 04 CURB WALL, RE: B3/C-501
- 05 SIDEWALK, RE: A1/C-501
- 09 ASPHALT REPAIR, RE: C3/C-501
- 11 REINSTALL SIGN, RE: B1/C-502
- 17 CURB & GUTTER, RE: A1/C-502
- 18 TIE TO EXISTING SIDEWALK
- 19 TIE TO EXISTING CURB
- 20 ASPHALT TIE IN, RE: B4/C-502

- 21 MANHOLE COLLAR, RE: B2/C-502
- 31 RELOCATED FIRE HYDRANT ASSEMBLY, RE: A3/C-502
- 32 TAPPING TEE AND VALVE, RE: B3/C-502
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 53 CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 55 ELECTRICAL SWITCH GEAR, RE: ELECTRICAL PLANS
- 59 ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

**HATCH LEGEND**

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

0 10 20

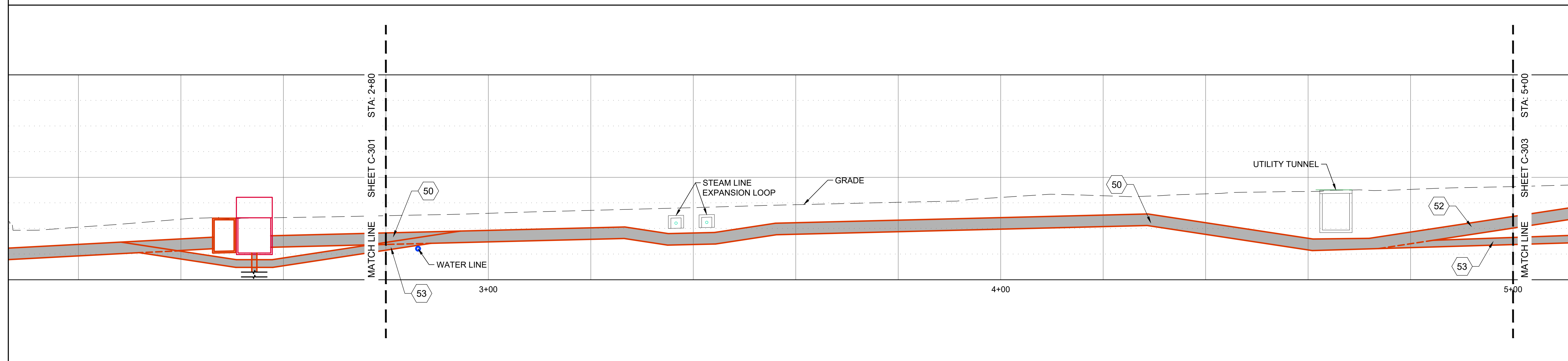
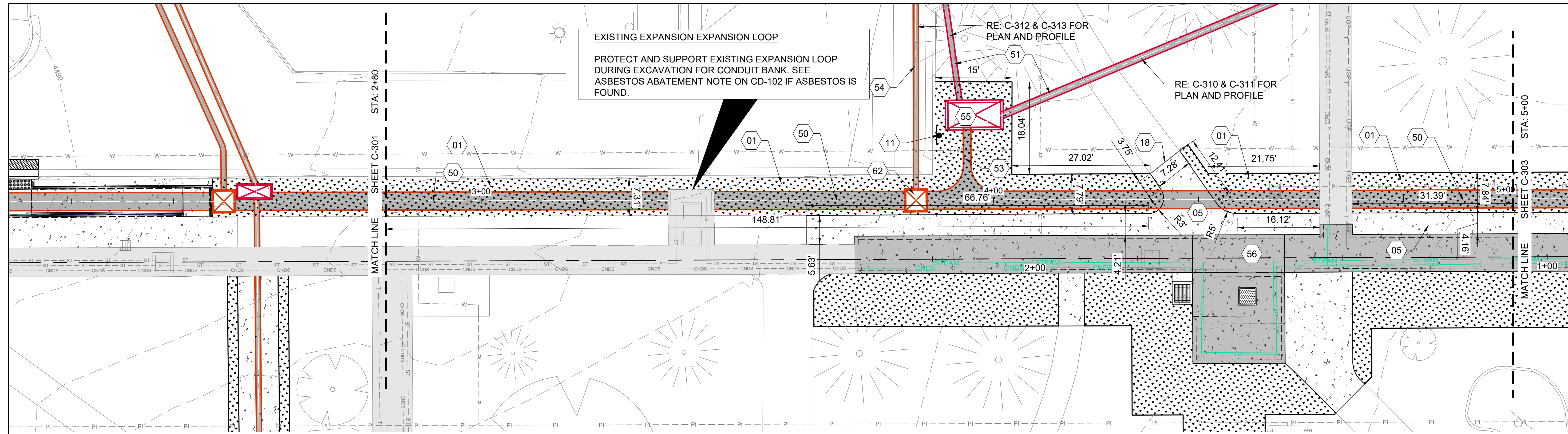
1-1/2 Inches

DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-301





**SHEET KEYNOTES**

- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 11 REINSTALL SIGN, RE: B1/C-502
- 18 TIE TO EXISTING SIDEWALK
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 53 CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 55 ELECTRICAL SWITCH GEAR, RE: ELECTRICAL PLANS

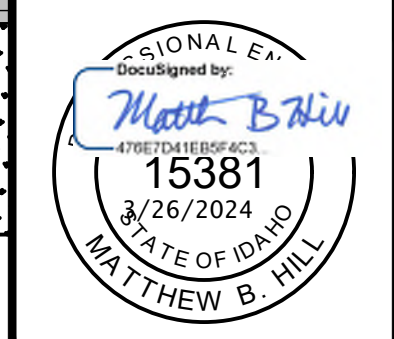
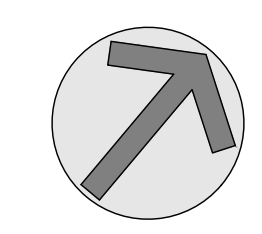
- 56 NEW CONCRETE TUNNEL
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

**HATCH LEGEND**

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



NO.	REVISIONS	DATE

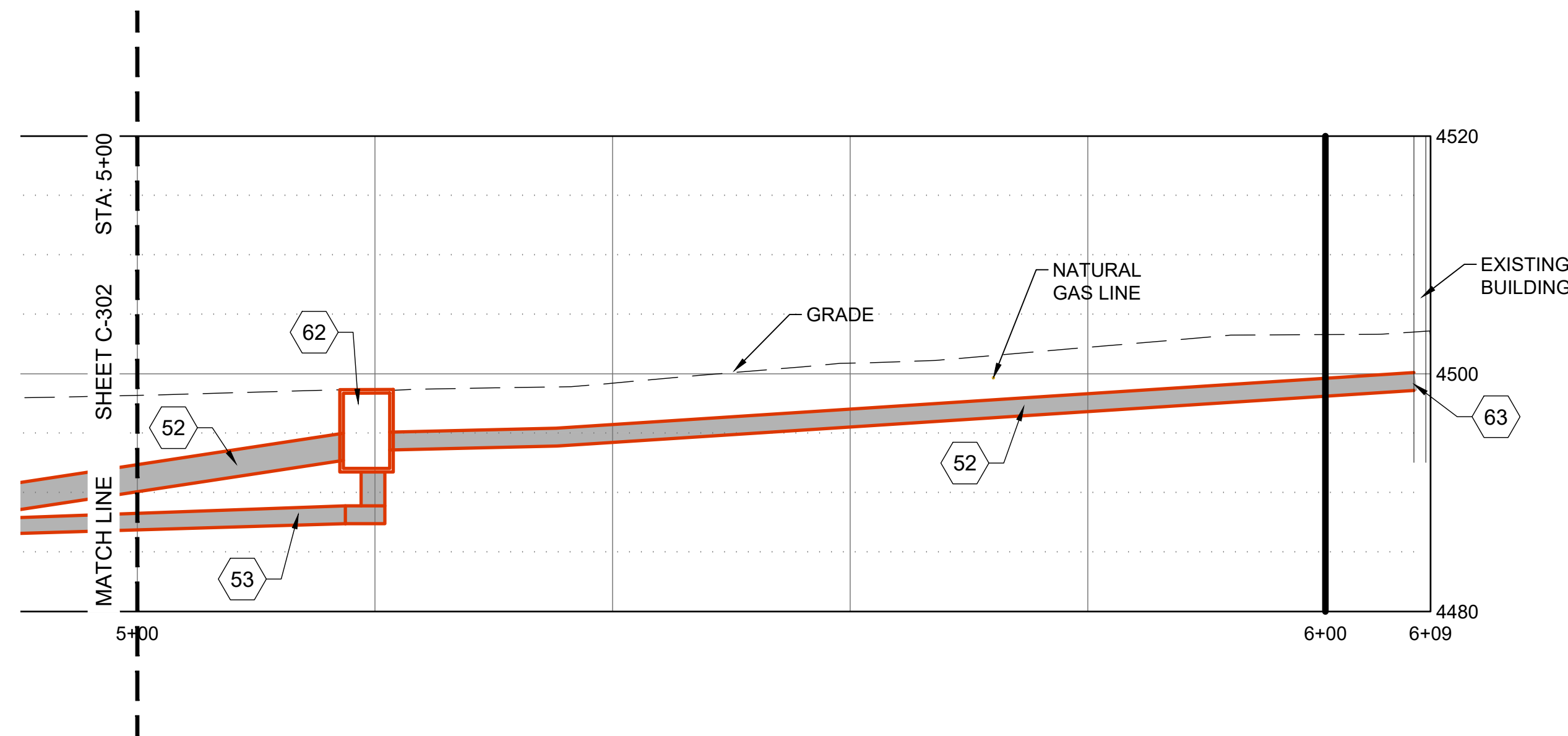
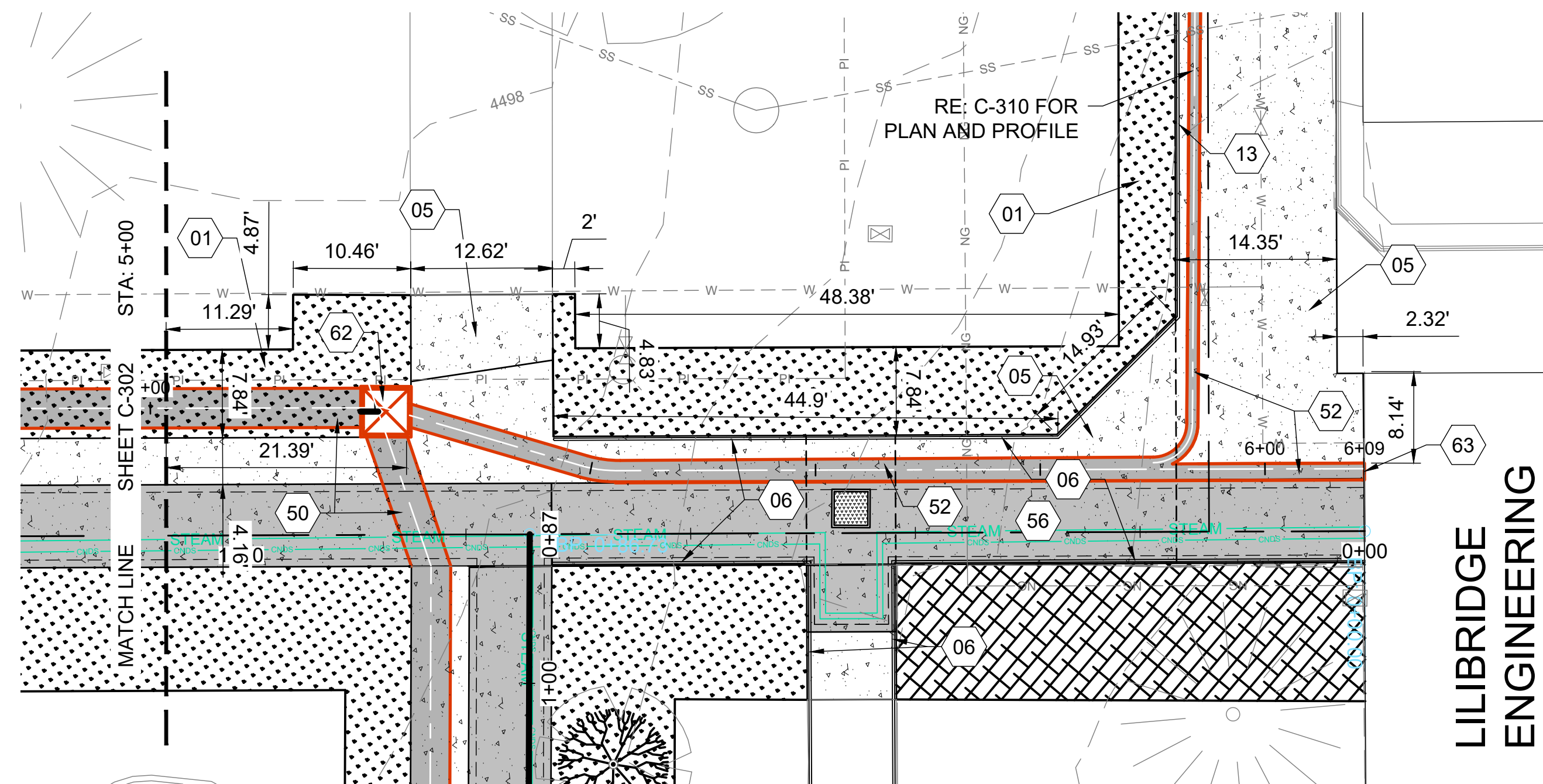
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**DPW PROJECT #21-654**  
**ISU: REPAIR UTILITY TUNNEL**

**IDAHO STATE UNIVERSITY**  
**SITE & CONDUIT BANK PLAN & PROFILE**

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. **C-302**

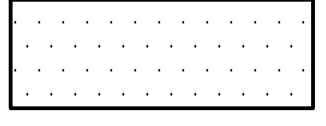
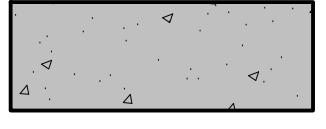
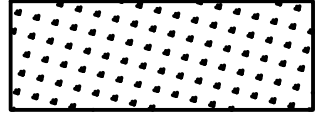
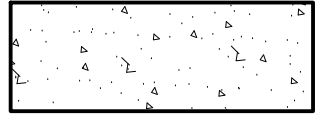





**SHEET KEYNOTES**

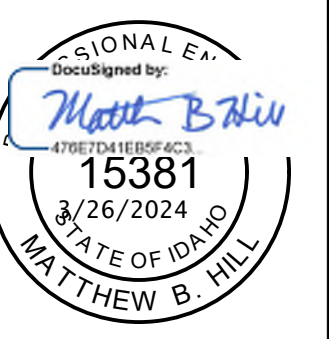
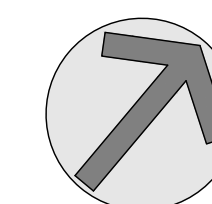
- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 06 HANDRAIL AT RAMP, RE: C3/C-505
- 13 HANDRAIL AT SIDEWALK, RE: C2/C-506
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 53 CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
- 56 NEW CONCRETE TUNNEL
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS

**HATCH LEGEND**

-  ASPHALT
-  NEW TUNNEL
-  SOD
-  CONCRETE
-  MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



NO.	REVISIONS	DATE

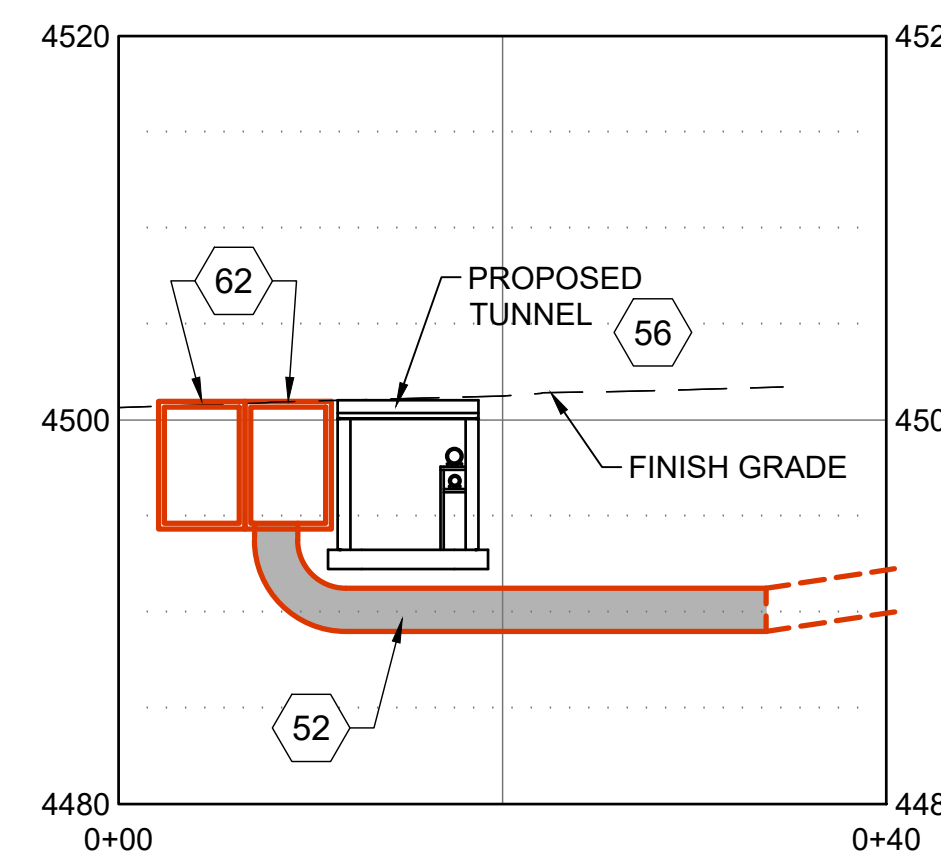
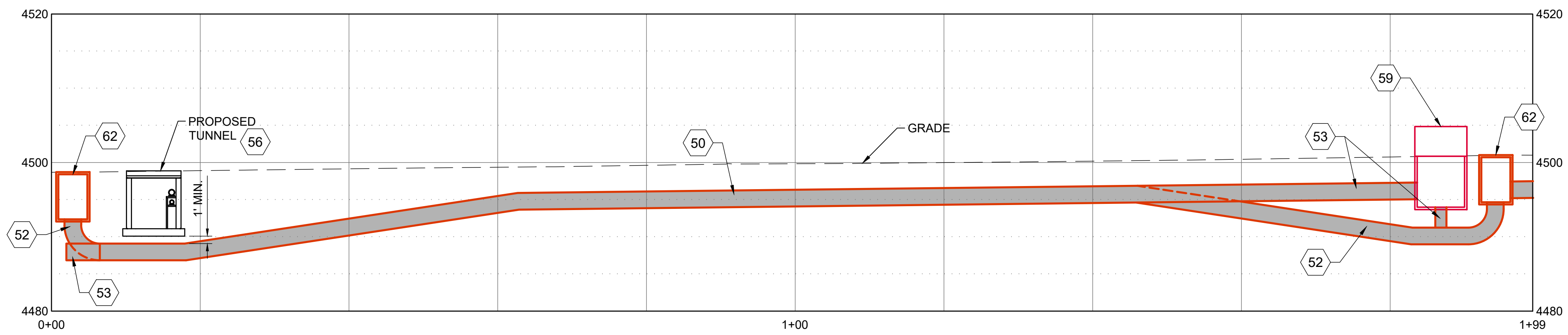
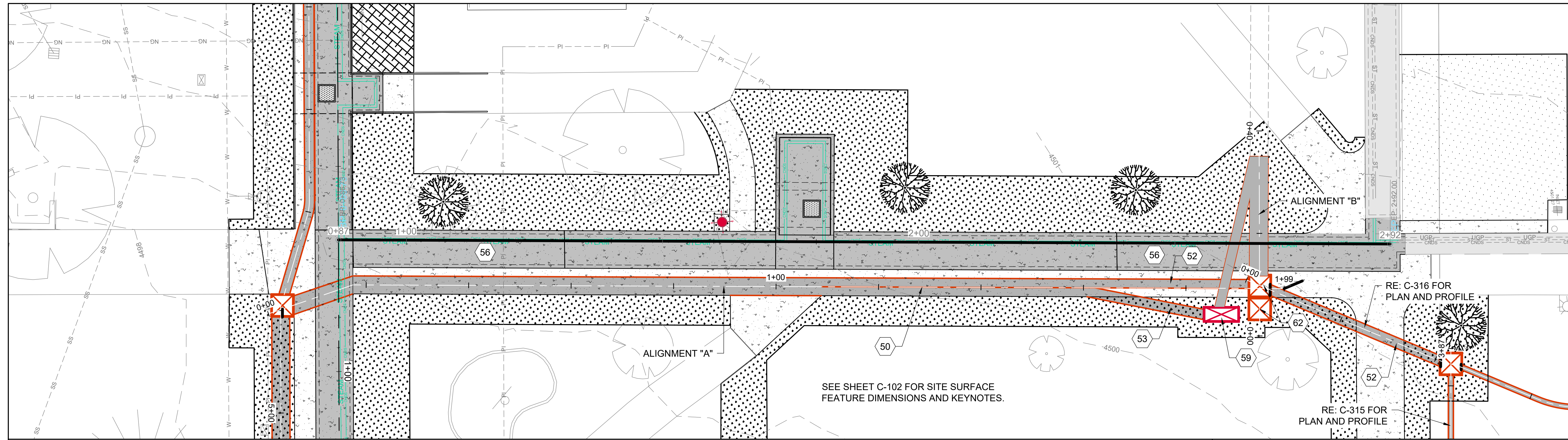
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-303





SHEET KEYNOTES

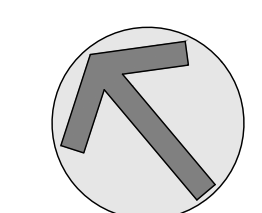
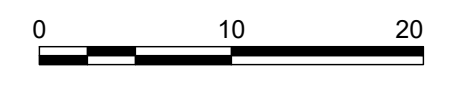
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 53 CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
- 56 NEW CONCRETE TUNNEL
- 59 ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



NO.	REVISIONS	DATE

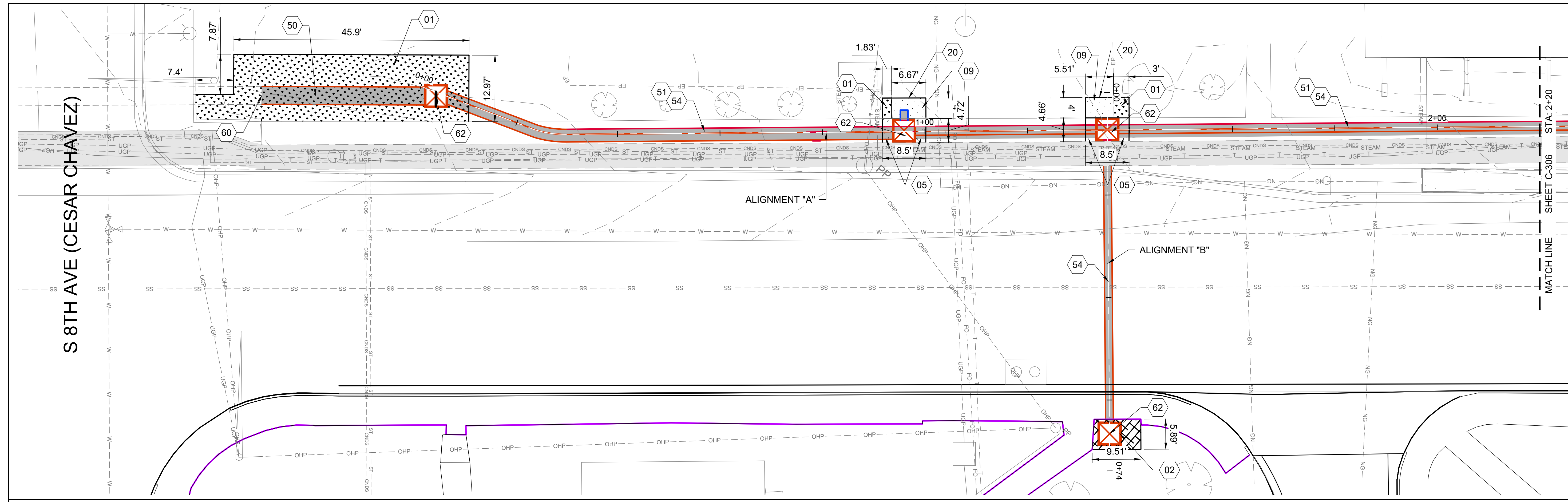
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-304



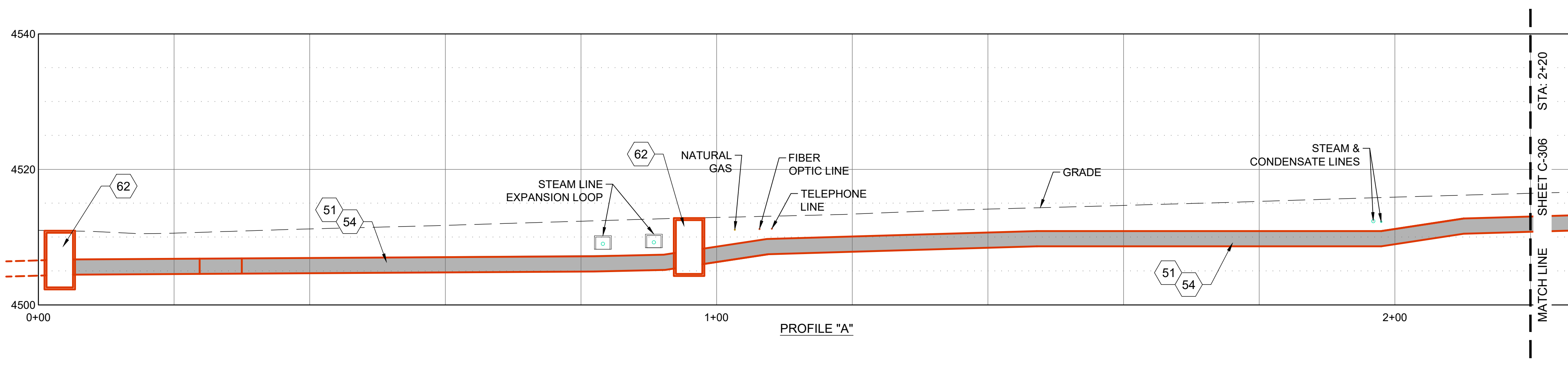


NO.	REVISIONS	DATE

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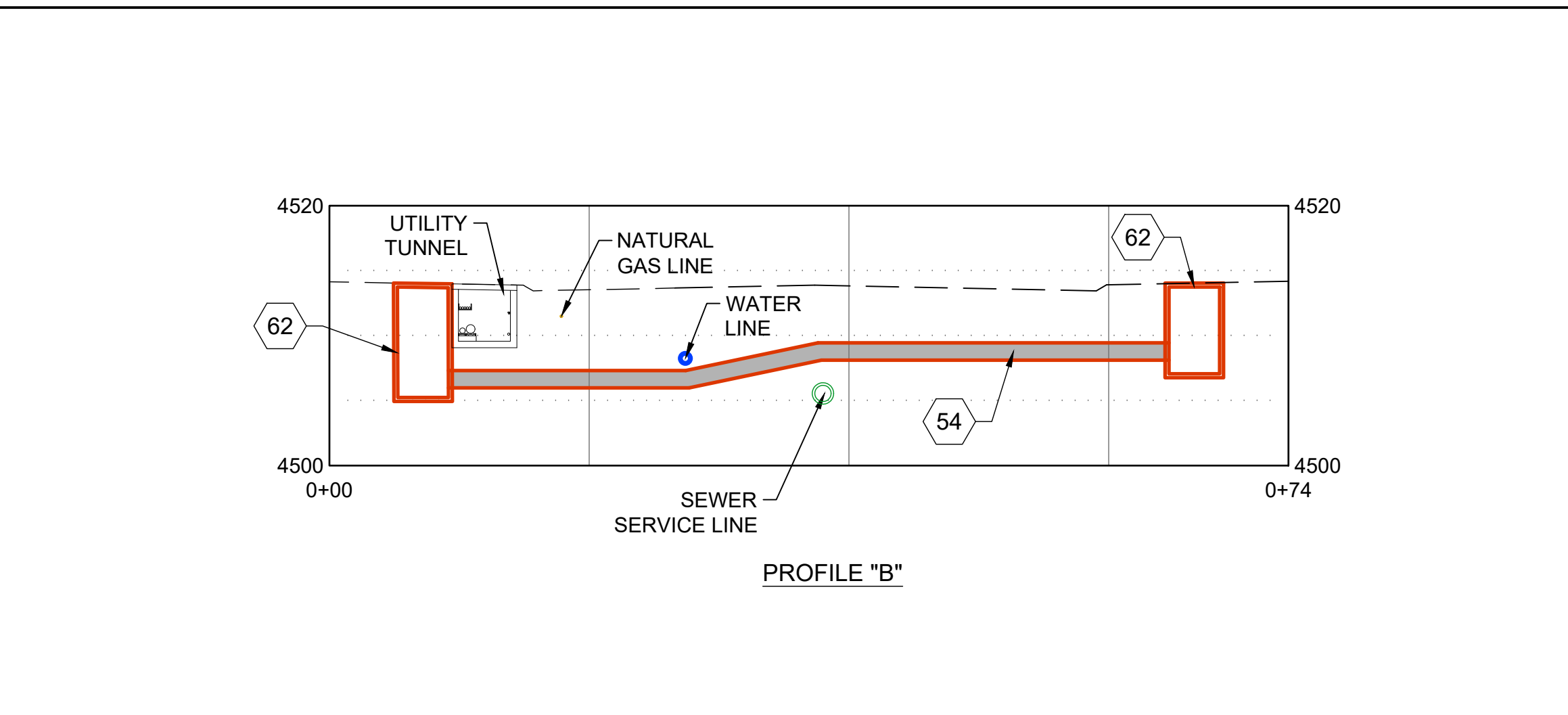
**HATCH LEGEND**

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH



**SHEET KEYNOTES**

01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002	60	CONNECT NEW CONDUIT BANK TO EXISTING CONDUIT BANK
02	LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002	62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
05	SIDEWALK, RE: A1/C-501		
09	ASPHALT REPAIR, RE: C3/C-501		
20	ASPHALT TIE IN, RE: B4/C-502		
50	CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS		
51	CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS		
54	CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS		



- SITE NOTES**
- COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
  - SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
  - IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

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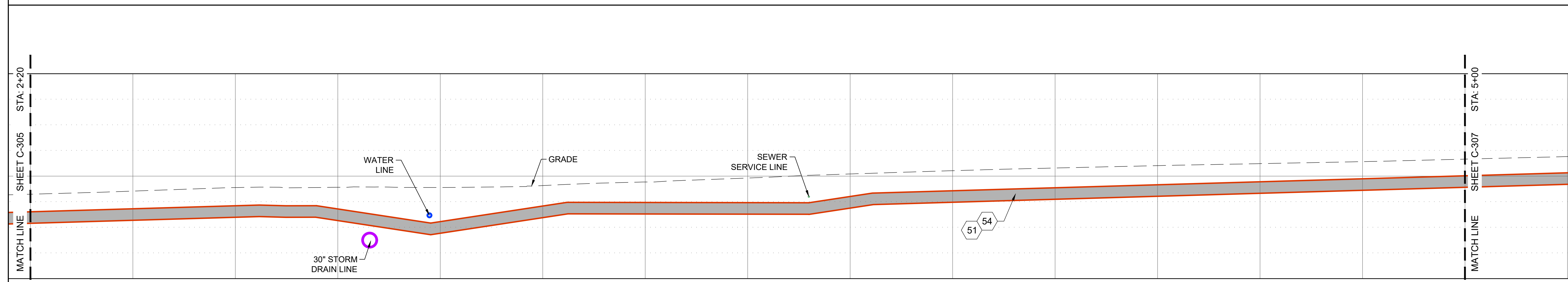
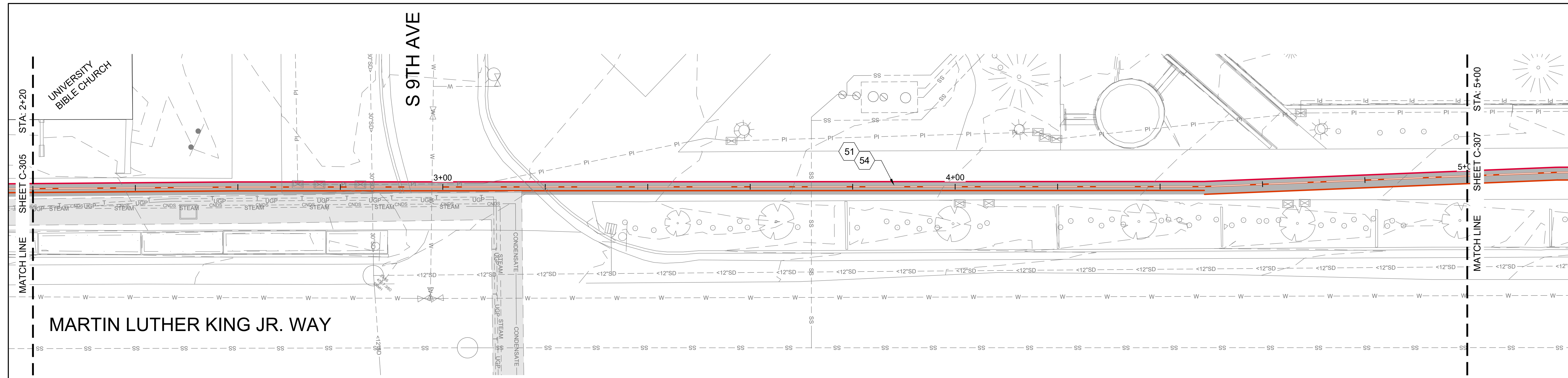
1-1/2 Inches

DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-305





SHEET KEYNOTES

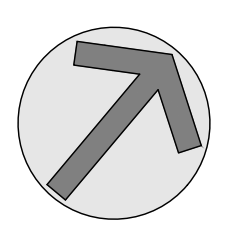
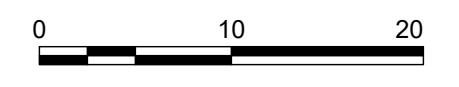
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 54 CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



**KELLER ASSOCIATES**  
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 (208) 238-2146

DESIGNED BY: *Matthew B. Hill*  
 PROFESSIONAL ENGINEER  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

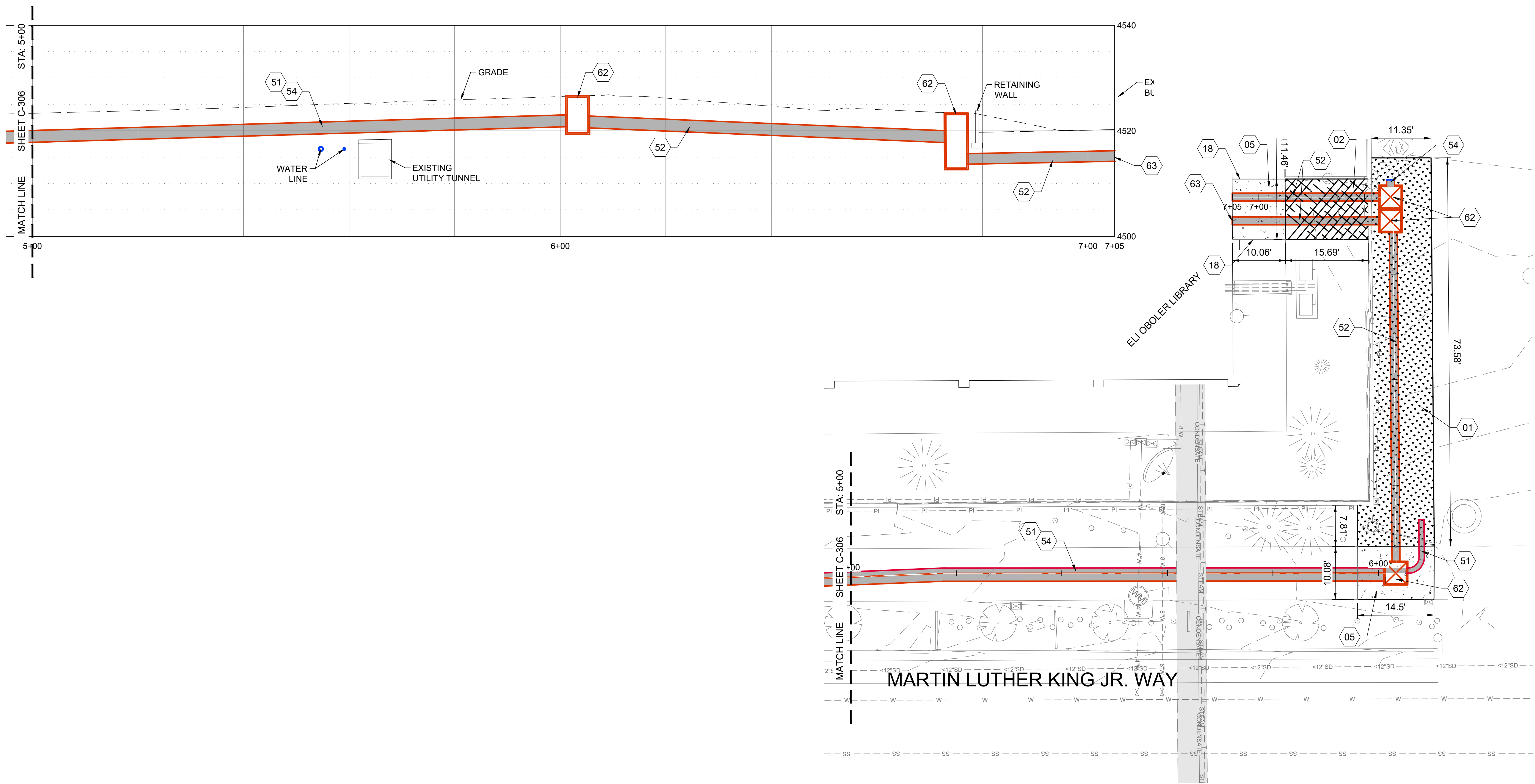
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-306





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

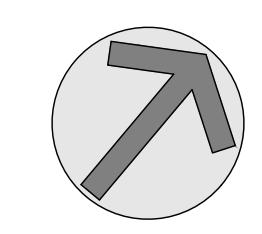
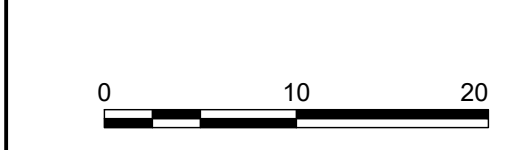
IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

**SHEET KEYNOTES**

- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 18 TIE TO EXISTING SIDEWALK
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS

**SITE NOTES**

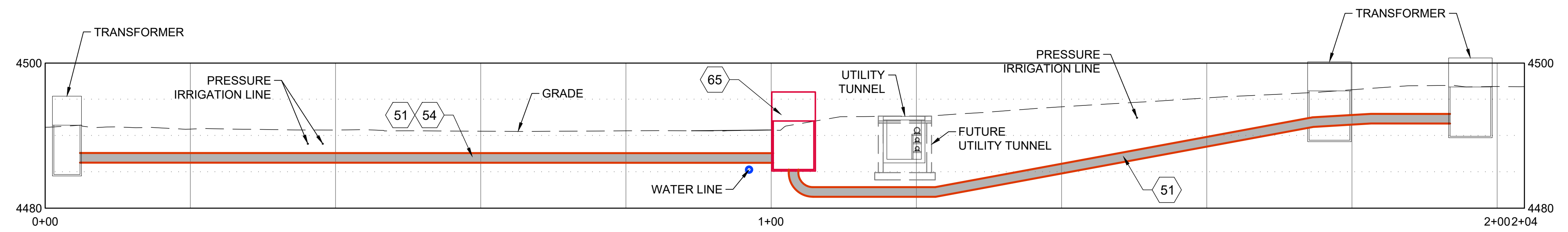
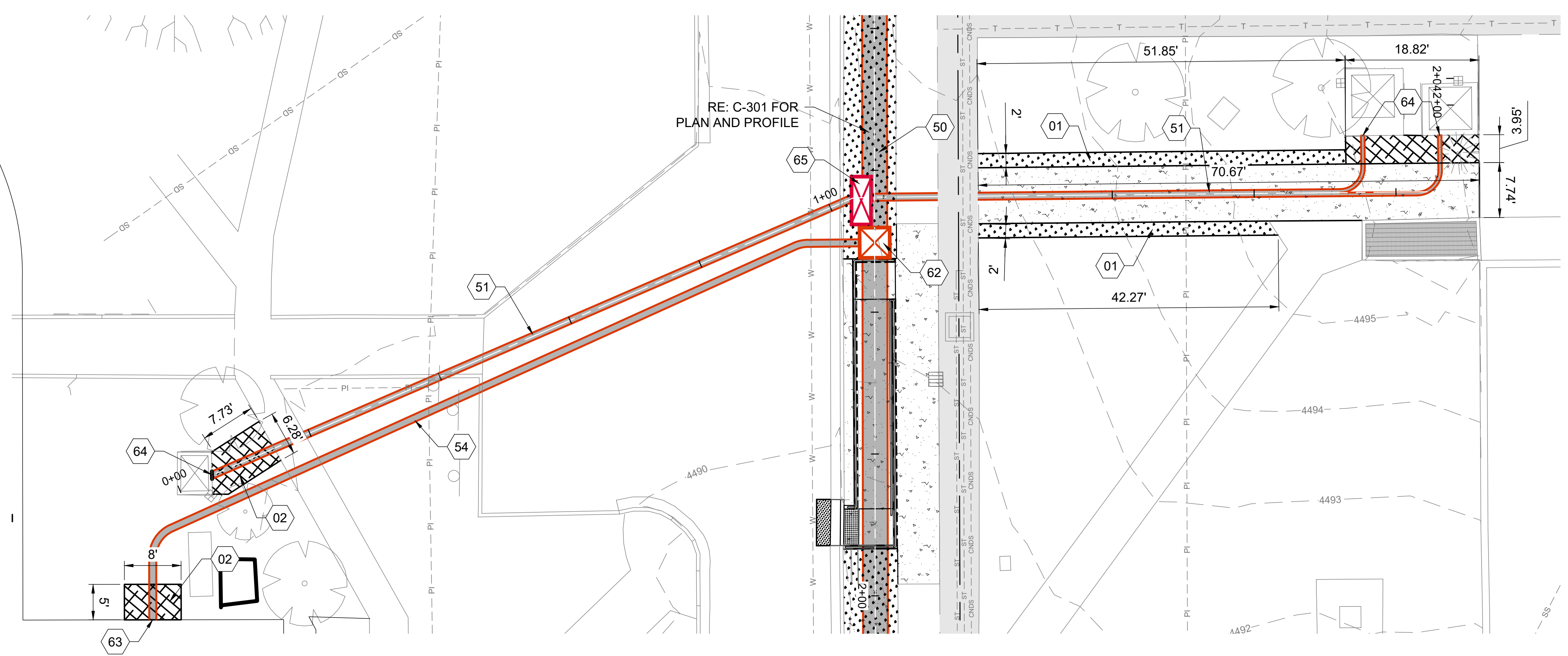
1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-307



FRAZIER HALL



SHEET KEYNOTES

- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS

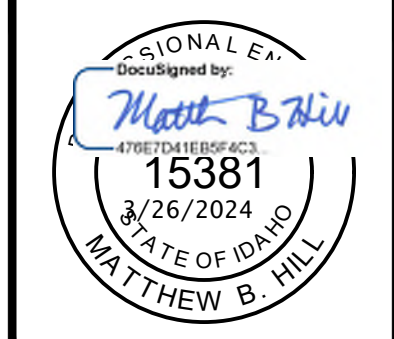
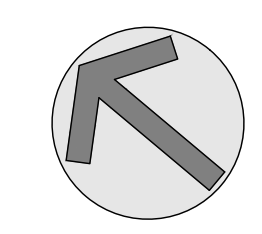
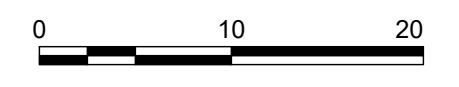
- 64 POWER CONDUIT CONNECTION TO TRANSFORMERS, RE: ELECTRICAL PLANS
- 65 ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



NO.	REVISIONS	DATE

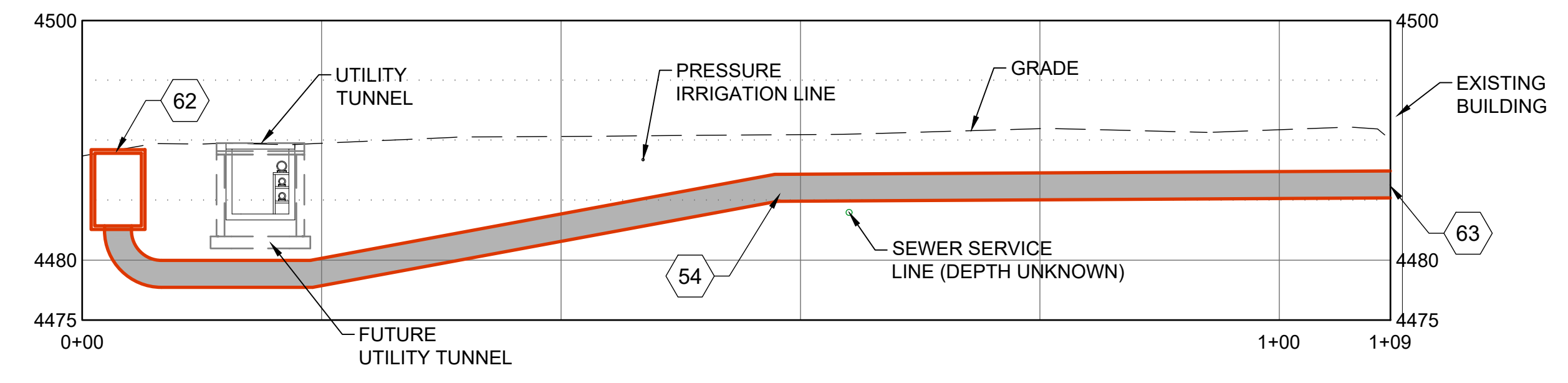
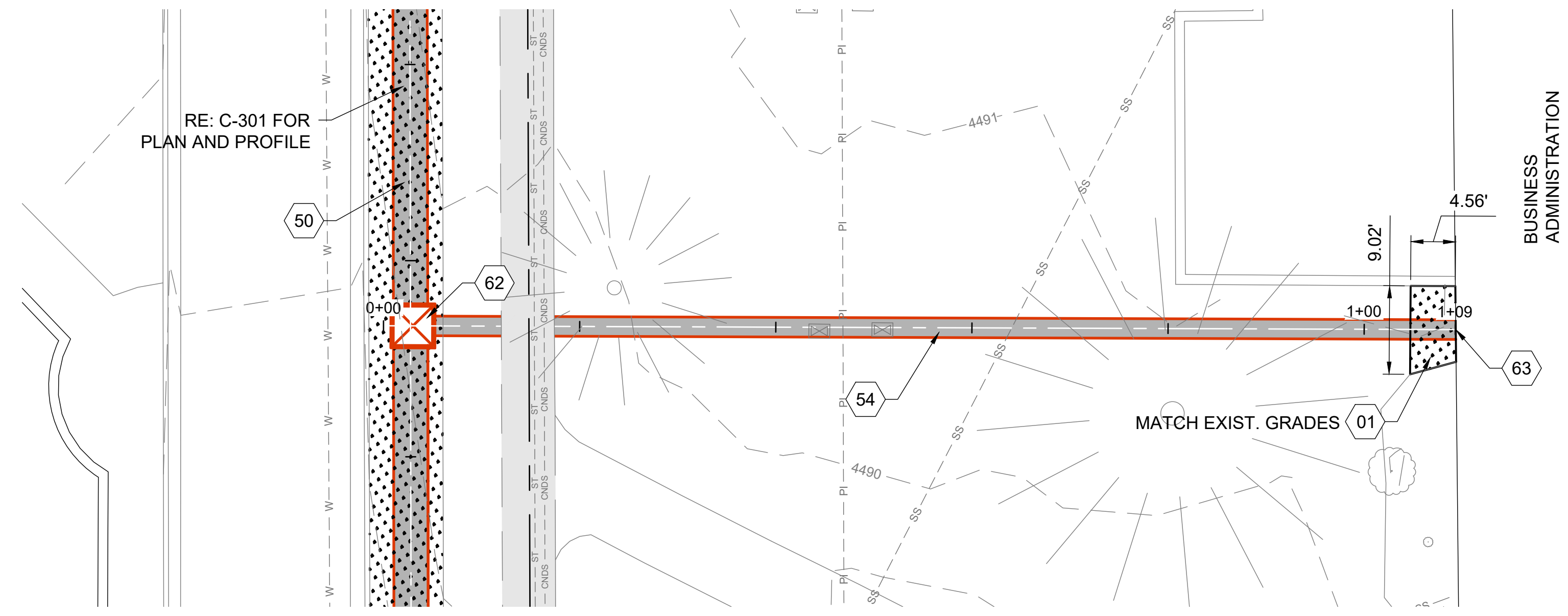
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-308

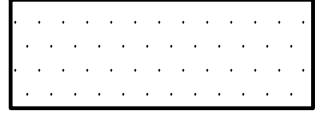
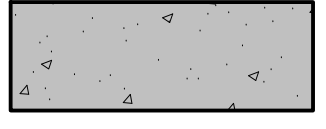
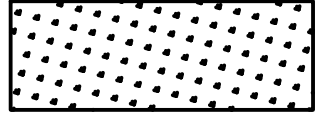
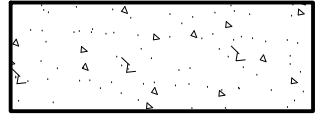
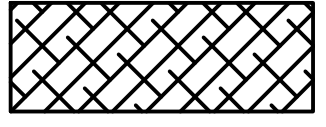




**SHEET KEYNOTES**

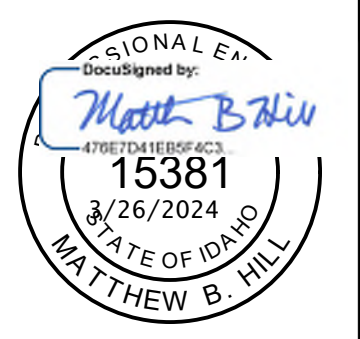
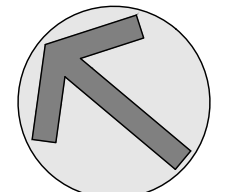
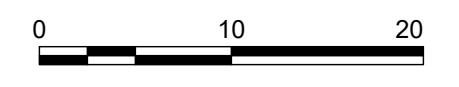
- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS

**HATCH LEGEND**

-  ASPHALT
-  NEW TUNNEL
-  SOD
-  CONCRETE
-  MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

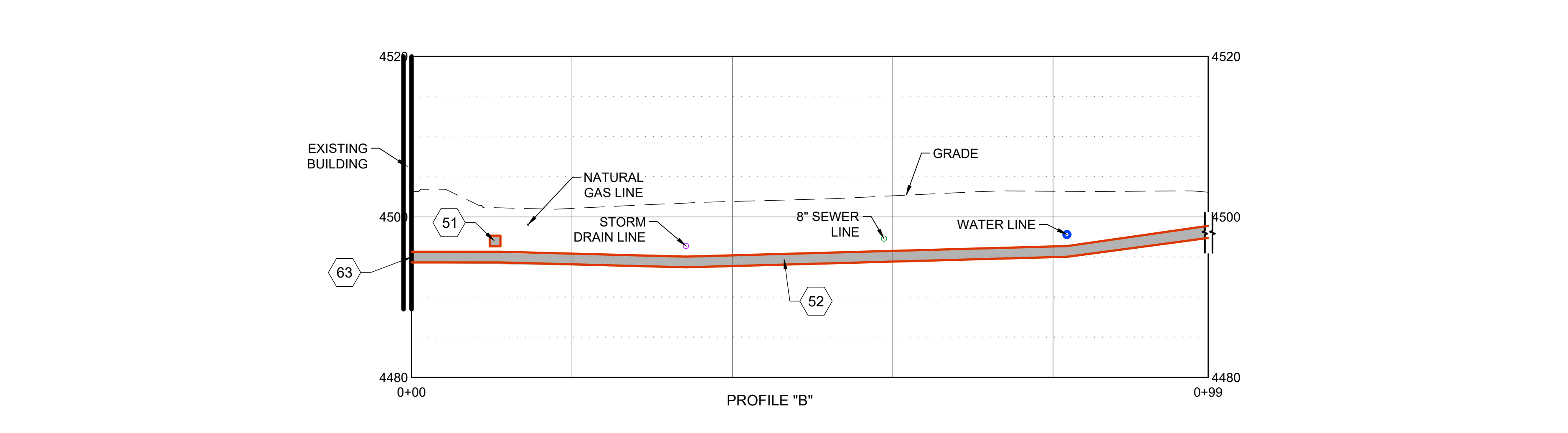
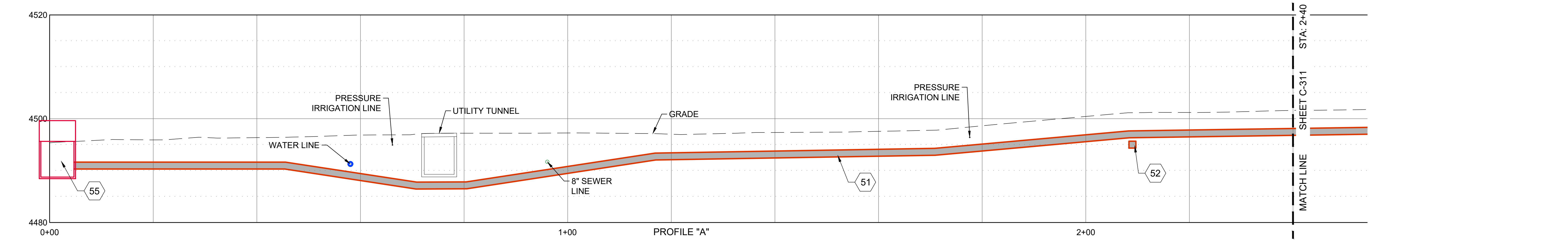
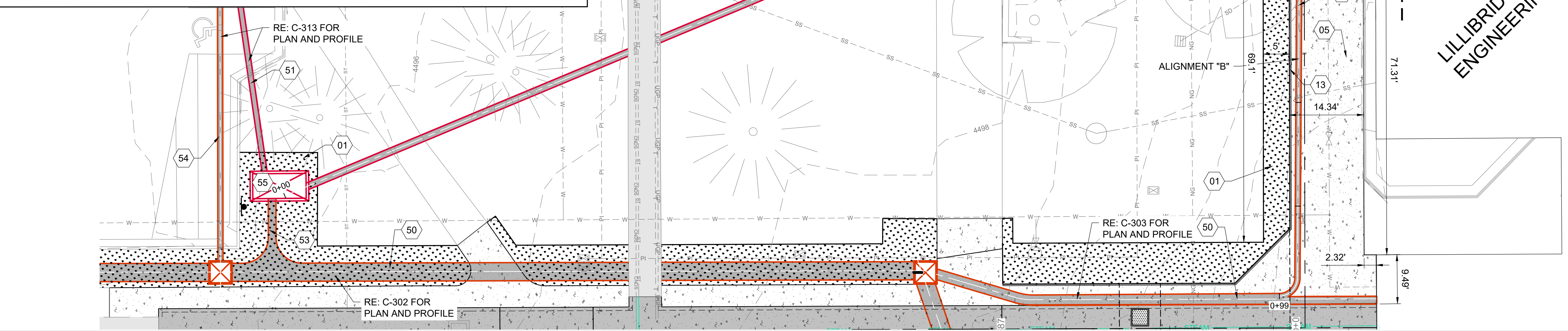
IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW / CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-309



**SHEET KEYNOTES**

- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 06 HANDRAIL AT RAMP, RE: C3/C-505
- 10 PORTION OF TUNNEL UNDER STAIRS AND WALL TO REMAIN IN PLACE. PLACE CONDUIT AND BACKFILL TUNNEL WITH FLOWABLE FILL
- 13 HANDRAIL AT SIDEWALK, RE: C2/C-506
- 50 CONDUIT BANK, (HIGH VOLTAGE POWER & COMMUNICATIONS) (TRENCH) RE: ELECTRICAL PLANS
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 53 CONDUIT, (HIGH VOLTAGE POWER) (TRENCH) RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 55 ELECTRICAL SWITCH GEAR, RE: ELECTRICAL PLANS
- 63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS



**HATCH LEGEND**

	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

**SITE NOTES**

- COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
- SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
- IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

0 10 20

**KELLER ASSOCIATES**

305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146

**LILLIBRIDGE ENGINEERING**

DocuSign by: Matthew B. Hill  
15381  
3/26/2024  
STATE OF IDAHO  
MATTHEW B. HILL

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

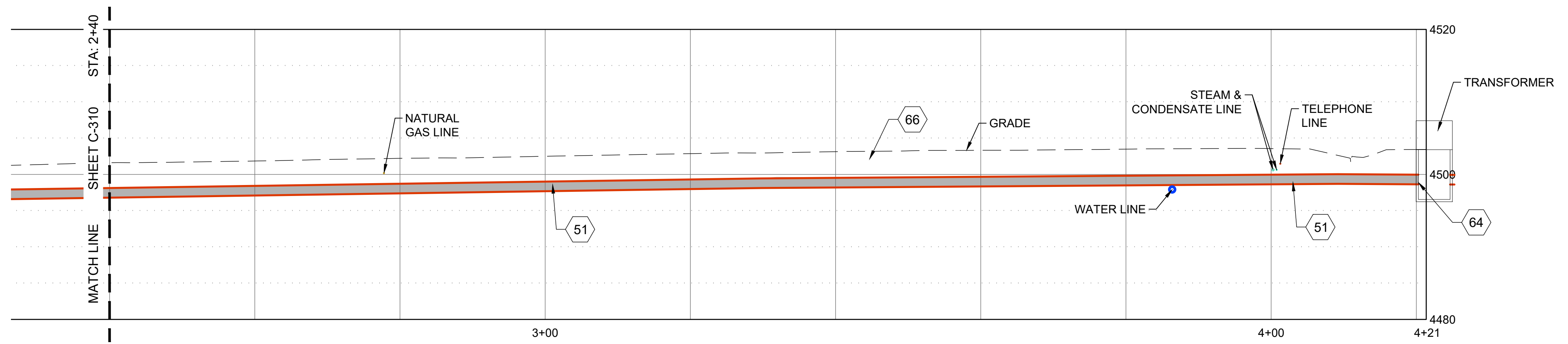
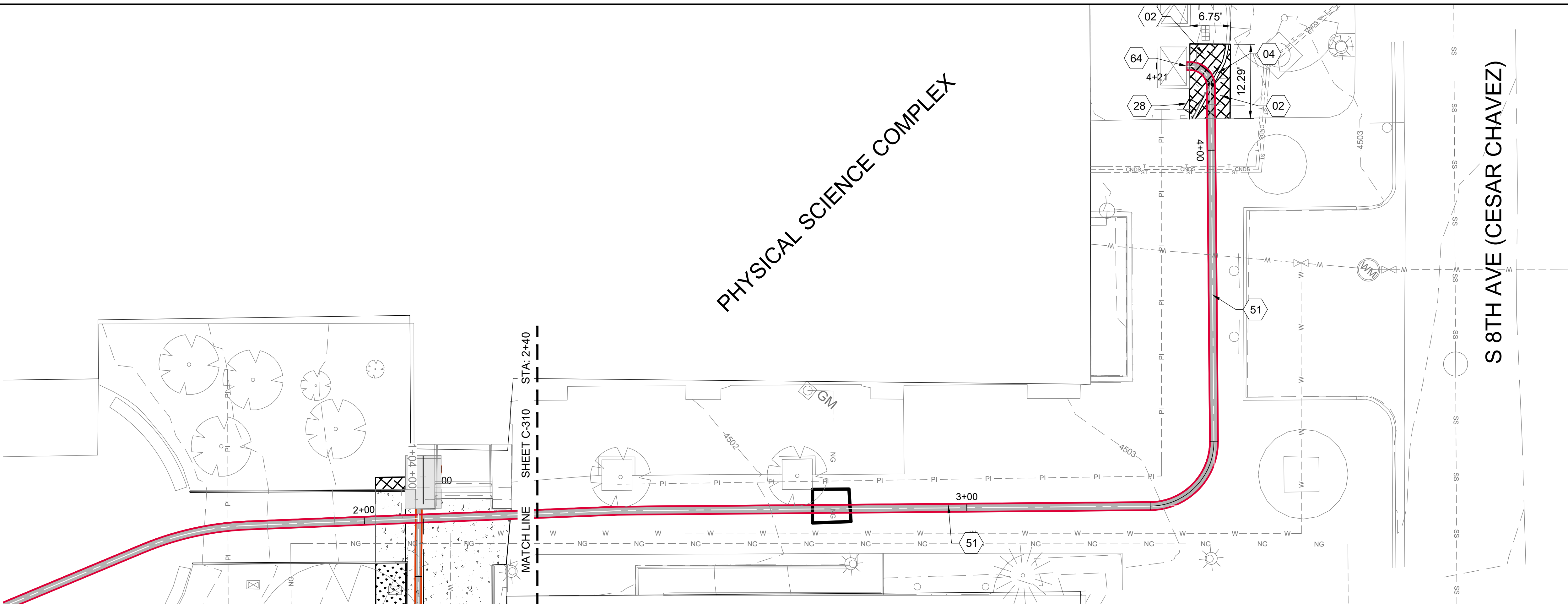
IDAHO STATE UNIVERSITY  
SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches

PROJECT NO.  
208106-088

SHEET NO.  
C-310

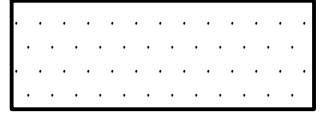
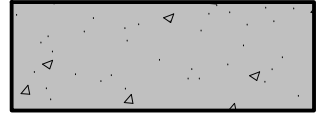
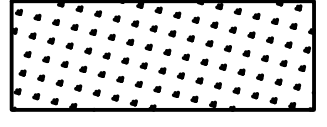
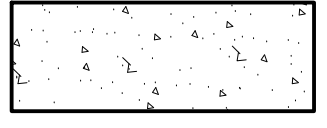
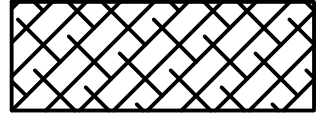




**SHEET KEYNOTES**

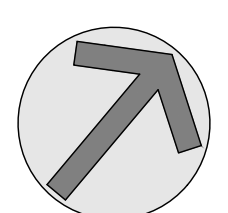
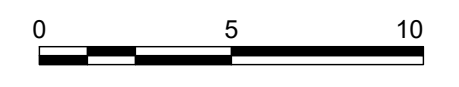
- 02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 04 CURB WALL, RE: B3/C-501
- 28
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 64 POWER CONDUIT CONNECTION TO TRANSFORMERS, RE: ELECTRICAL PLANS
- 66 POWER PULL PULL BOX, RE: ELECTRICAL PLANS

**HATCH LEGEND**

-  ASPHALT
-  NEW TUNNEL
-  SOD
-  CONCRETE
-  MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



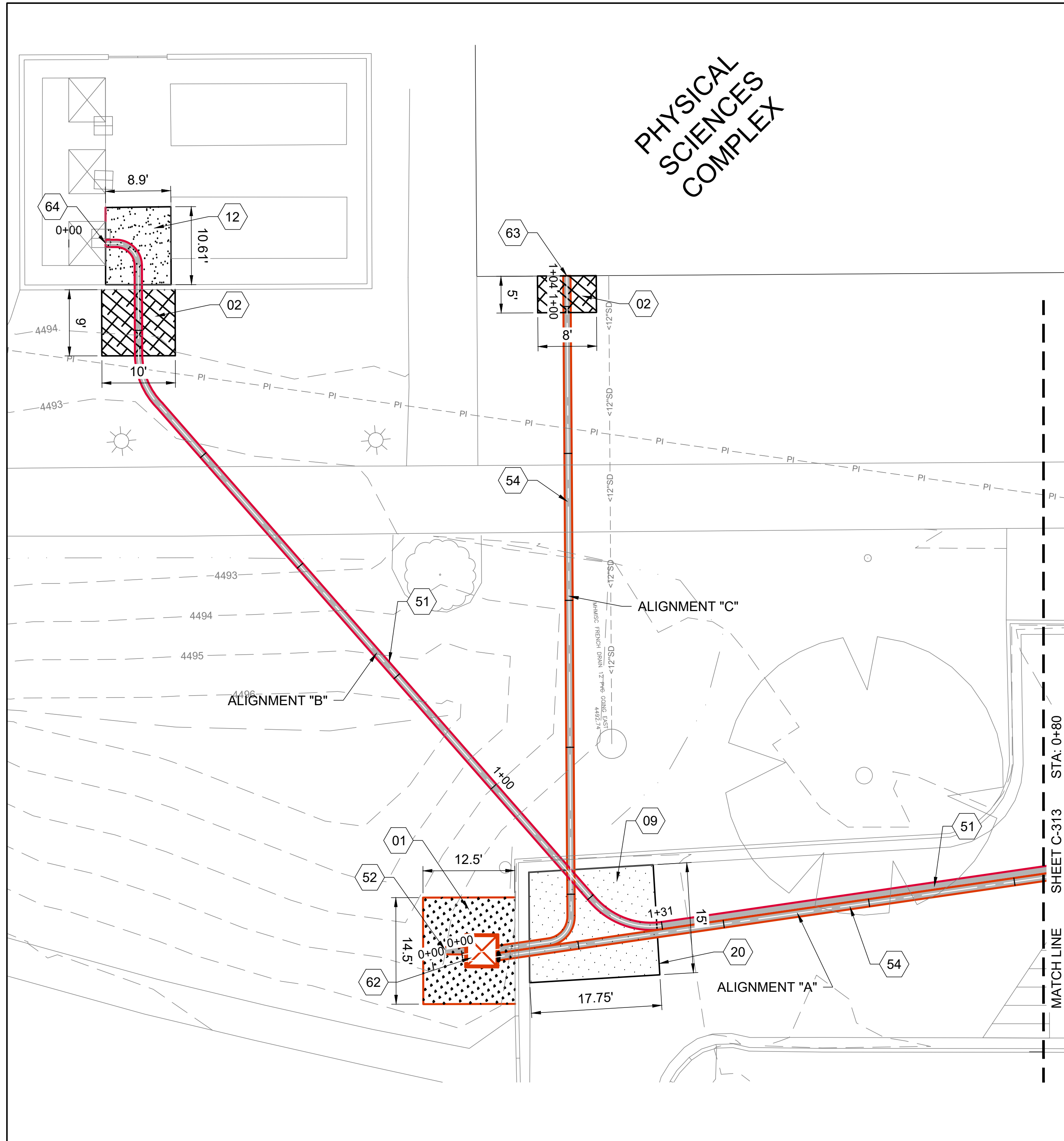
NO.	REVISIONS	DATE

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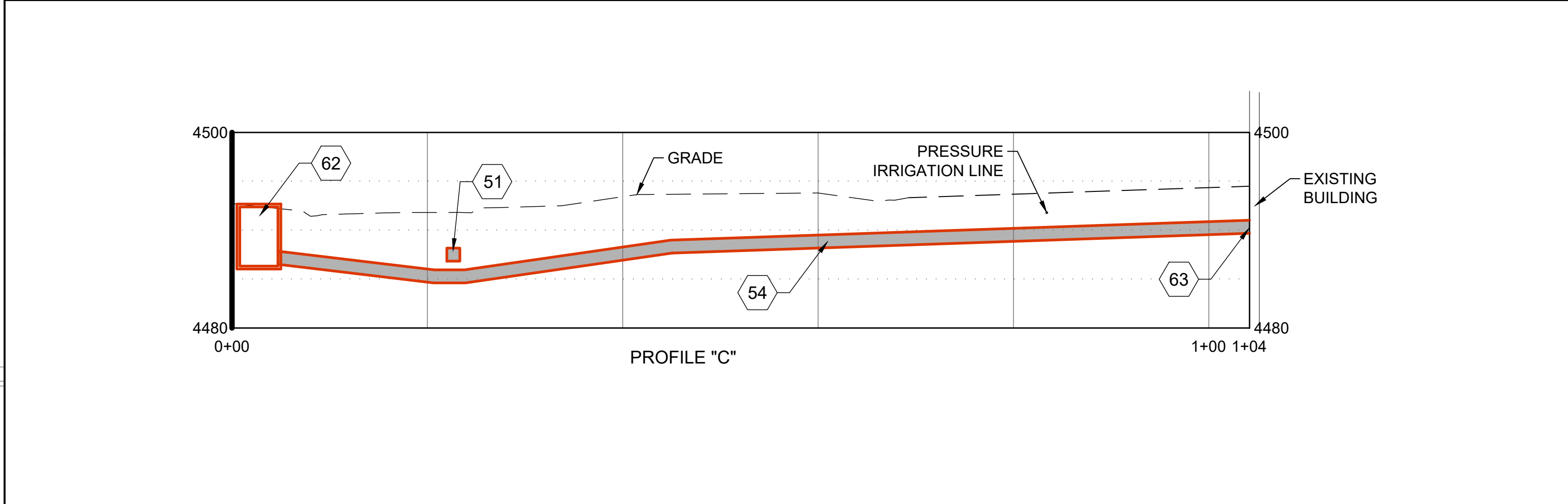
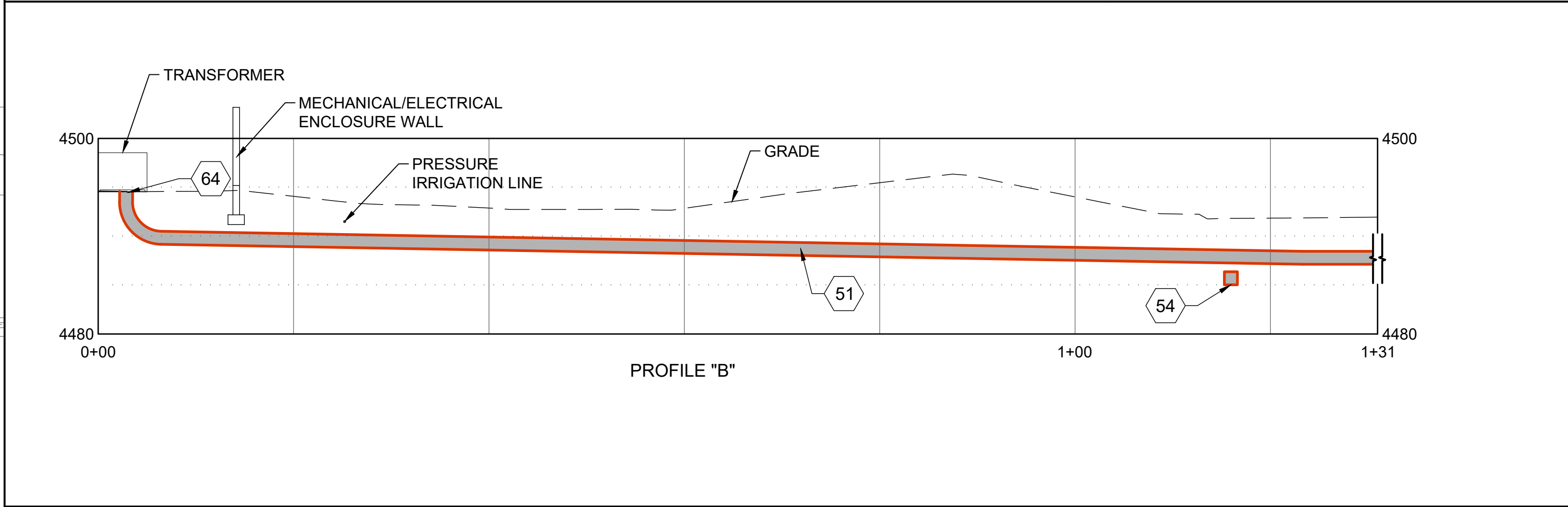
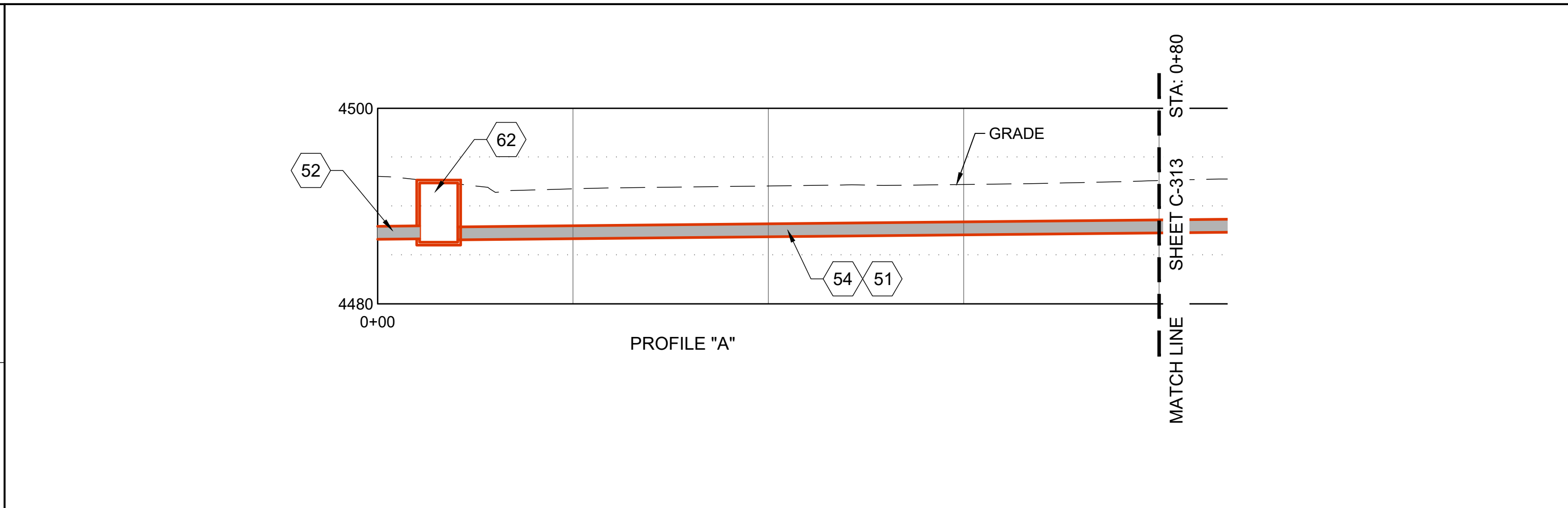
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE





PHYSICAL  
SCIENCES  
COMPLEX



SHEET KEYNOTES

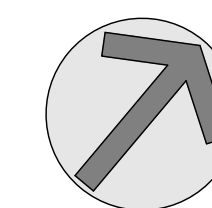
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| <p>01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 &amp; IRRIGATION NOTES SHEET G-002</p> <p>02 LANDSCAPING, (MULCH), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 &amp; IRRIGATION NOTES SHEET G-002</p> <p>09 ASPHALT REPAIR, RE: C3/C-501</p> <p>12 GRAVEL SURFACE REPAIR, RE: C1/C-502</p> <p>20 ASPHALT TIE IN, RE: B4/C-502</p> <p>51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS</p> <p>52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS</p> <p>54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS</p> <p>62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS</p> | <p>63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS</p> <p>64 POWER CONDUIT CONNECTION TO TRANSFORMERS, RE: ELECTRICAL PLANS</p> |
|---|--|

HATCH LEGEND

- |  |            |
|--|------------|
|  | ASPHALT    |
|  | NEW TUNNEL |
|  | SOD        |
|  | CONCRETE   |
|  | MULCH      |

SITE NOTES

- COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
- SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
- IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



NO.	REVISIONS	DATE

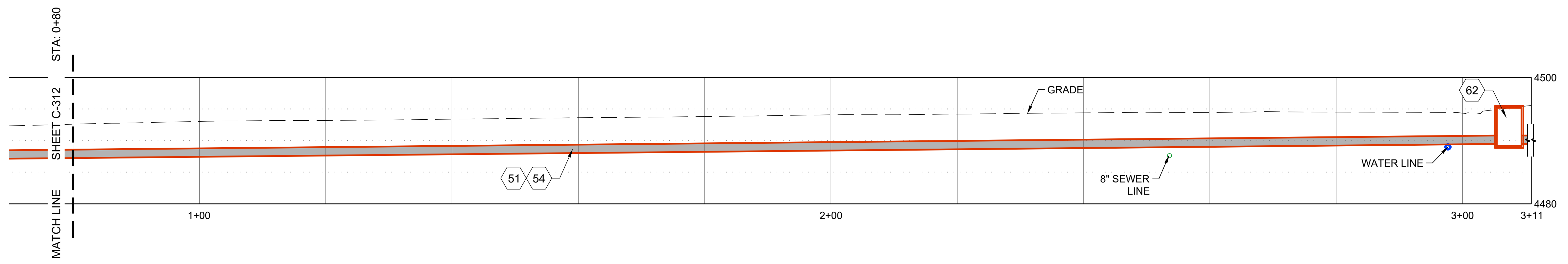
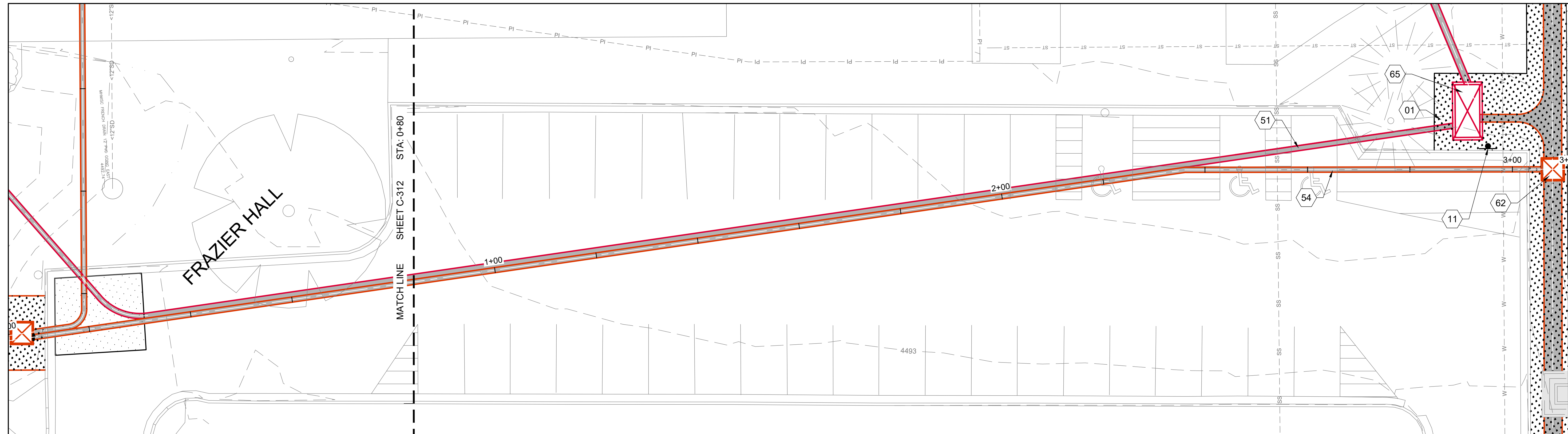
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-312

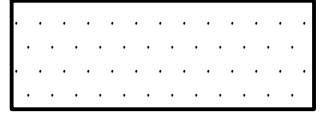
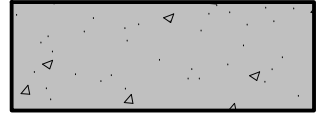
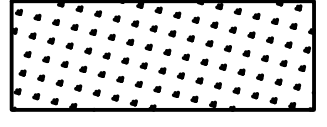
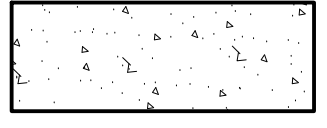
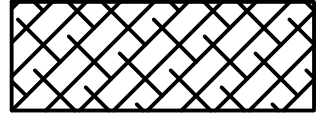




**SHEET KEYNOTES**

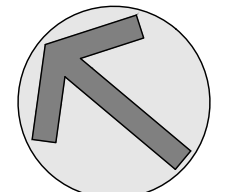
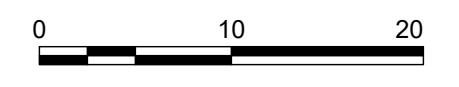
- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 11 REINSTALL SIGN, RE: B1/C-502
- 51 CONDUIT, (HIGH VOLTAGE POWER) (BORE) RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 65 ELECTRICAL SECTIONALIZER, RE: ELECTRICAL PLANS

**HATCH LEGEND**

-  ASPHALT
-  NEW TUNNEL
-  SOD
-  CONCRETE
-  MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

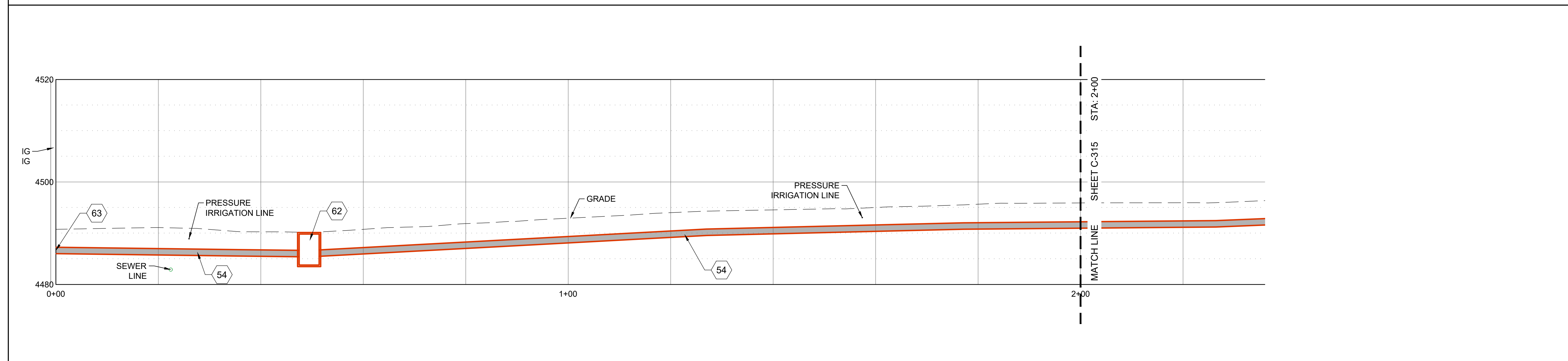
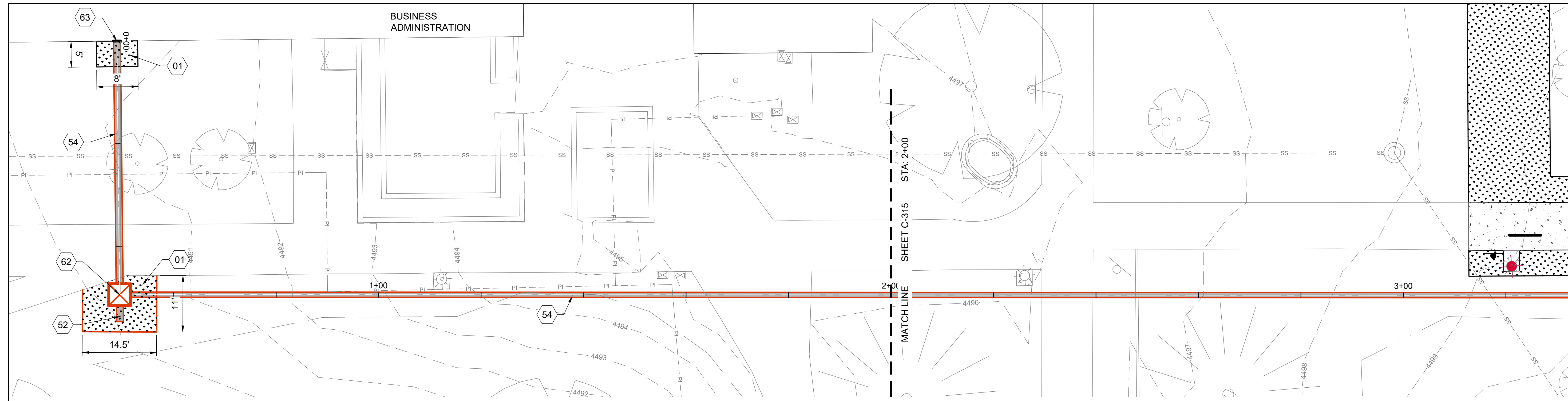
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-313





SHEET KEYNOTES	
01	LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
52	CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
54	CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
62	COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
63	COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS

HATCH LEGEND	
	ASPHALT
	NEW TUNNEL
	SOD
	CONCRETE
	MULCH

SITE NOTES	
1.	COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2.	SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3.	IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.

1-1/2 Inches

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
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 (208) 238-2146

DESIGNED BY: *Matthew B. Hill*  
 15381  
 3/26/2024  
 STATE OF IDAHO  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

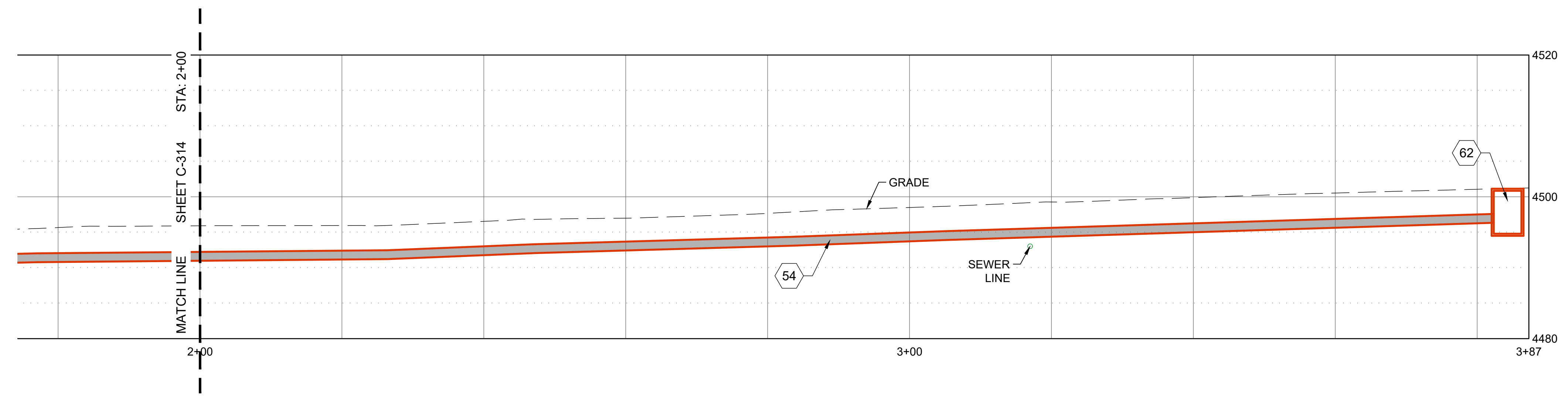
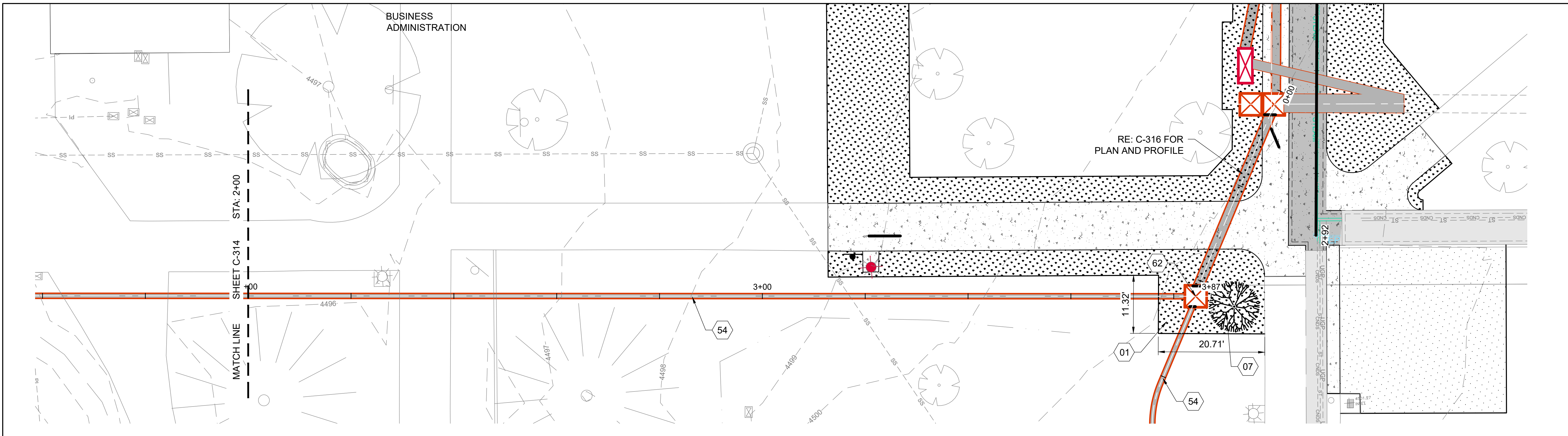
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

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 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-314





**SHEET KEYNOTES**

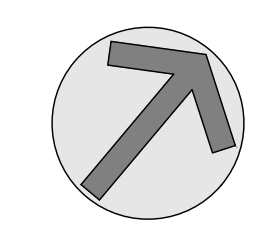
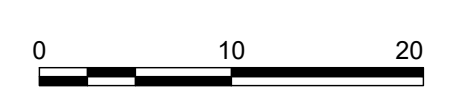
- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 07 INSTALL NEW TREE, (PACIFIC SUNSET MAPLE, ACER X PACIFICA SUNSET) 1.5" OR LARGER CALIPER, B&B OR CONTAINER, MULTI-TRUNK, FULL, EVENLY BRANCHED, MATCHED, RE: C4/C-501
- 54 CONDUIT,(COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS

**HATCH LEGEND**

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

**SITE NOTES**

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146

DESIGNED BY:  
  
 MATTHEW B. HILL

NO.	REVISIONS	DATE

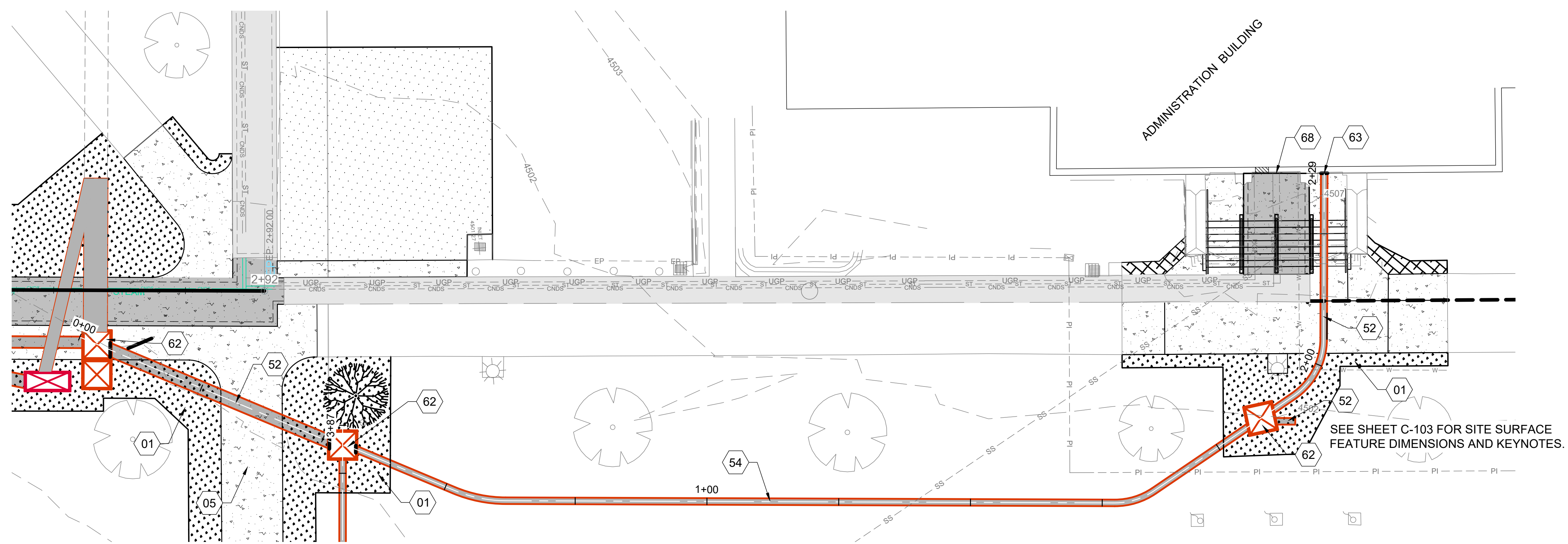
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 ISU: REPAIR UTILITY TUNNEL

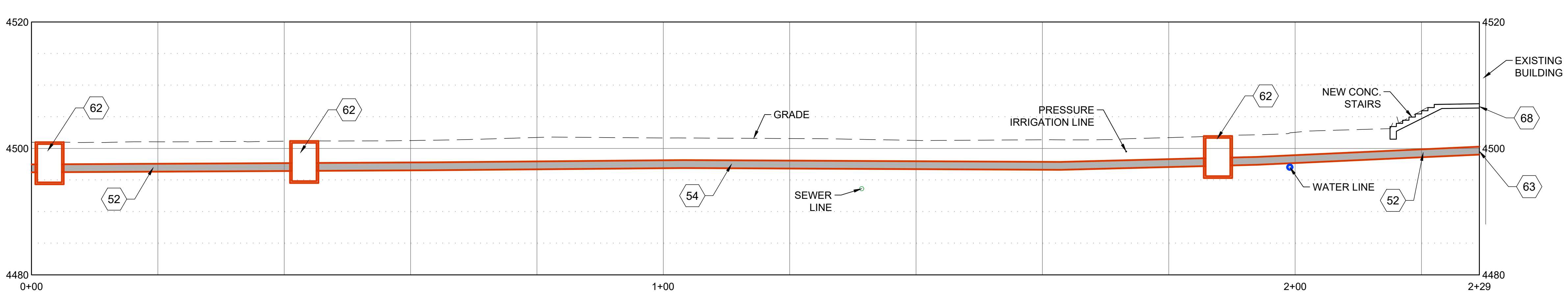
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 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-315





SEE SHEET C-103 FOR SITE SURFACE FEATURE DIMENSIONS AND KEYNOTES.



SHEET KEYNOTES

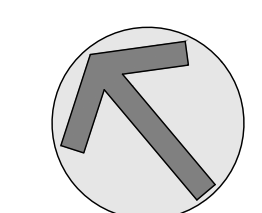
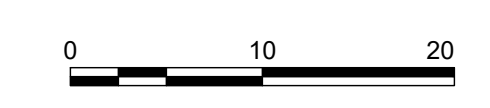
- 01 LANDSCAPING, (SOD), REPAIR IRRIGATION AS REQUIRED FOR CONSTRUCTION. REPLACE IN KIND OR BETTER, RE: A3/C-501 & IRRIGATION NOTES SHEET G-002
- 05 SIDEWALK, RE: A1/C-501
- 52 CONDUIT, (COMMUNICATIONS) (TRENCH), RE: ELECTRICAL PLANS
- 54 CONDUIT, (COMMUNICATIONS) (BORE), RE: ELECTRICAL PLANS
- 62 COMMUNICATIONS PULL BOX, RE: ELECTRICAL PLANS
- 63 COMMUNICATIONS CONDUIT TO BUILDING CONNECTION, RE: ELECTRICAL PLANS
- 68 PLACE WATER STOP BETWEEN END OF NEW TUNNEL AND BUILDING FOR WALLS, FLOORS, AND ROOF DECK

HATCH LEGEND

- ASPHALT
- NEW TUNNEL
- SOD
- CONCRETE
- MULCH

SITE NOTES

1. COORDINATE WITH ELECTRICAL PLANS AND DETAILS FOR POWER AND COMMUNICATIONS CONDUIT BANK.
2. SEE SHEETS C-100 THROUGH C-103 FOR SITE AND TUNNEL PLANS.
3. IRRIGATION SYSTEM COMPONENTS SUCH AS VALVES, BOXES, HEADS, PIPING, WIRING, ETC. THAT ARE REMOVED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH IN KIND OR BETTER MATERIALS.



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 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 SITE & CONDUIT BANK PLAN & PROFILE

DRAWN: KJW CHECK: HGB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-316



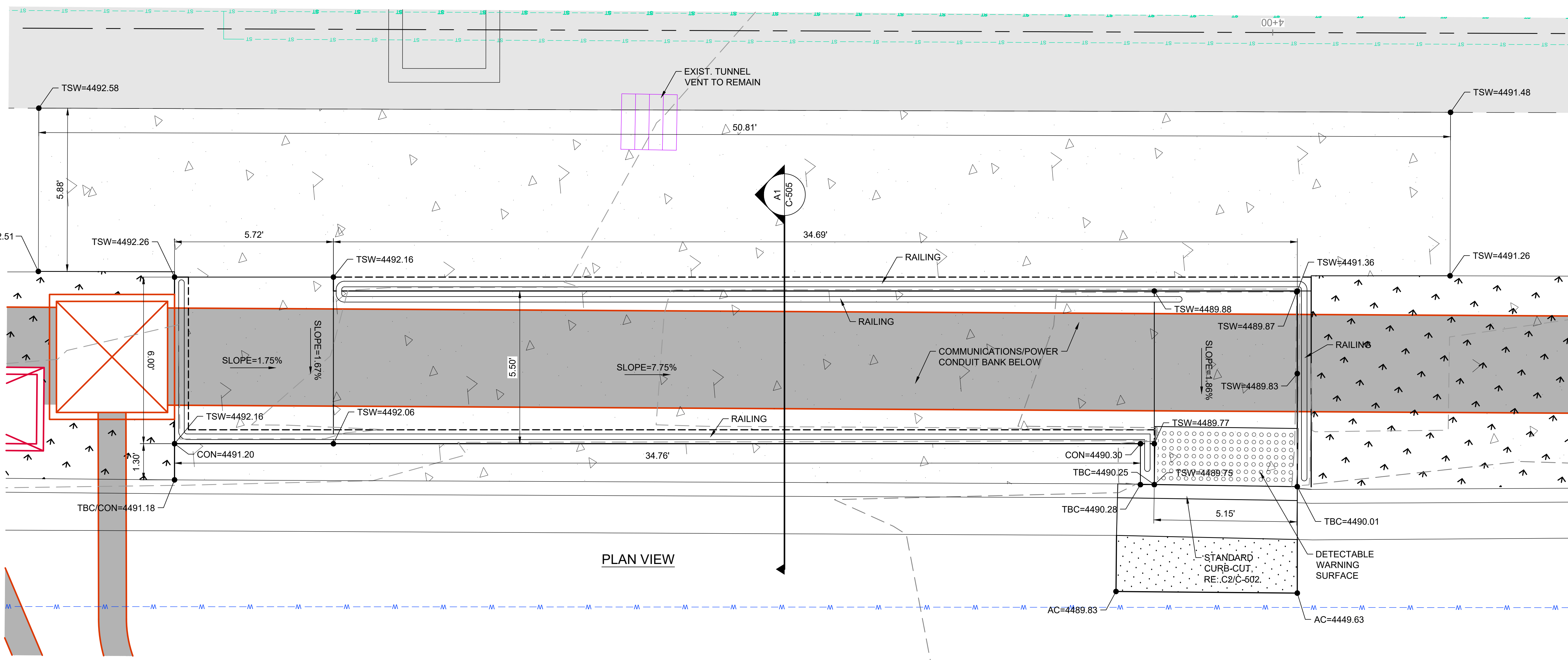
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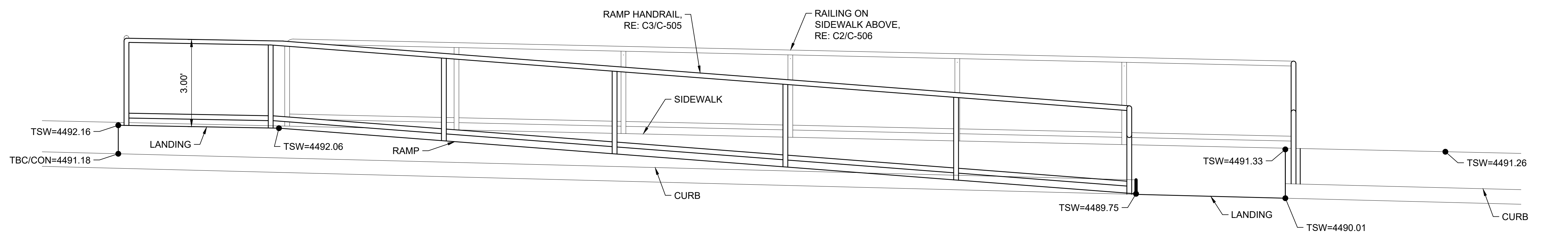
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
ENLARGED SITE DETAIL

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-401

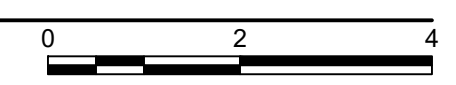


PLAN VIEW

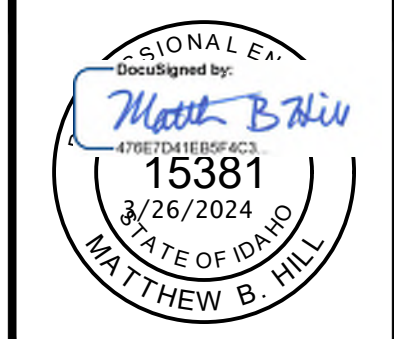


ELEVATION VIEW

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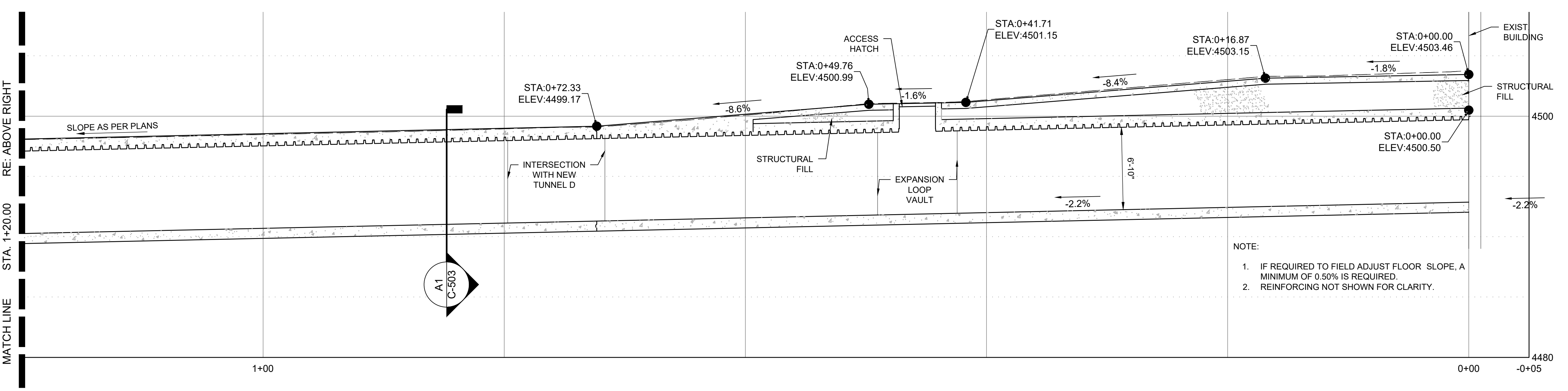
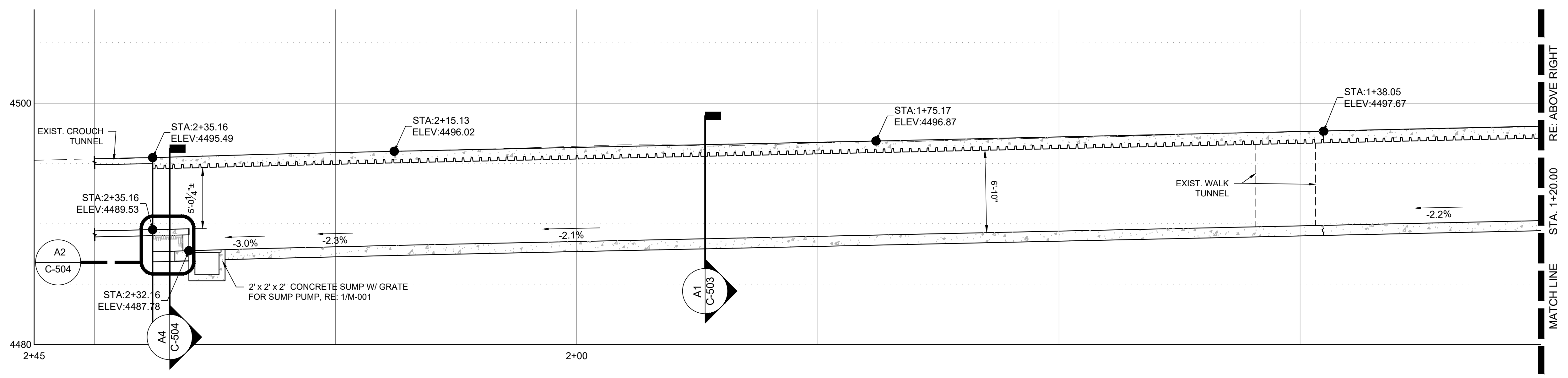
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
NEW TUNNEL C PROFILE SECTION

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-402

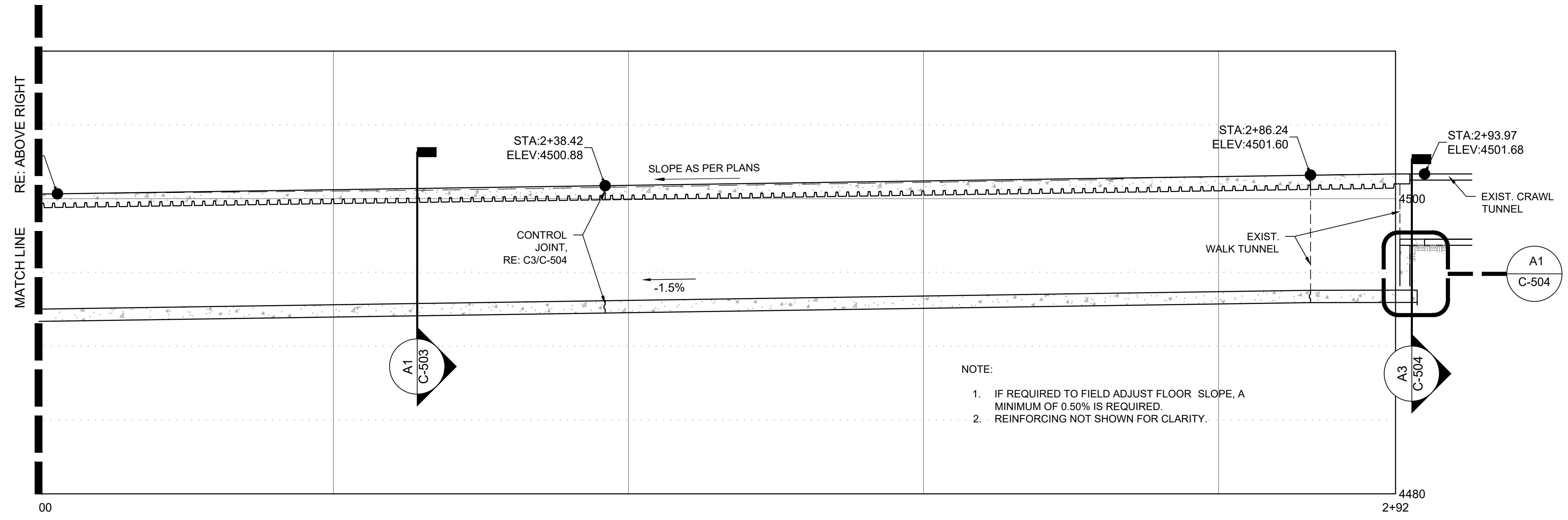
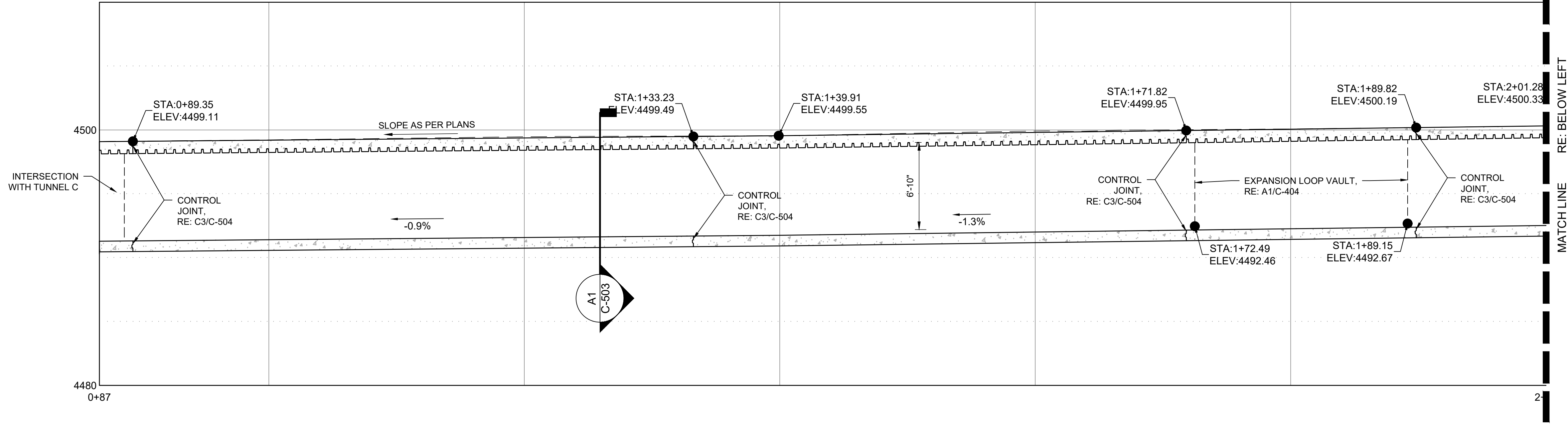


NOTE:  
 1. IF REQUIRED TO FIELD ADJUST FLOOR SLOPE, A MINIMUM OF 0.50% IS REQUIRED.  
 2. REINFORCING NOT SHOWN FOR CLARITY.

**A1** STEAM TUNNEL SECTION VIEW-TUNNEL C  
N.T.S.



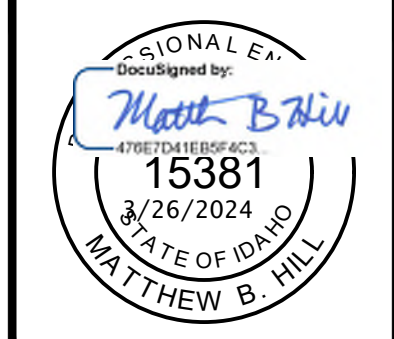




NOTE:

1. IF REQUIRED TO FIELD ADJUST FLOOR SLOPE, A MINIMUM OF 0.50% IS REQUIRED.
2. REINFORCING NOT SHOWN FOR CLARITY.

**A1** STEAM TUNNEL SECTION VIEW-TUNNEL D  
N.T.S.



NO.	REVISIONS	DATE

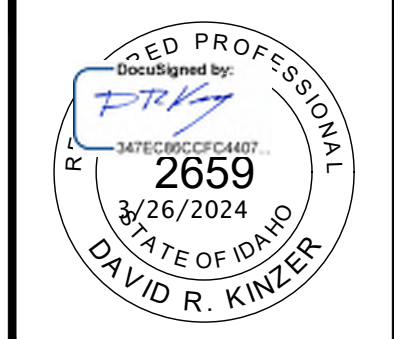
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
NEW TUNNEL D PROFILE SECTION

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-403





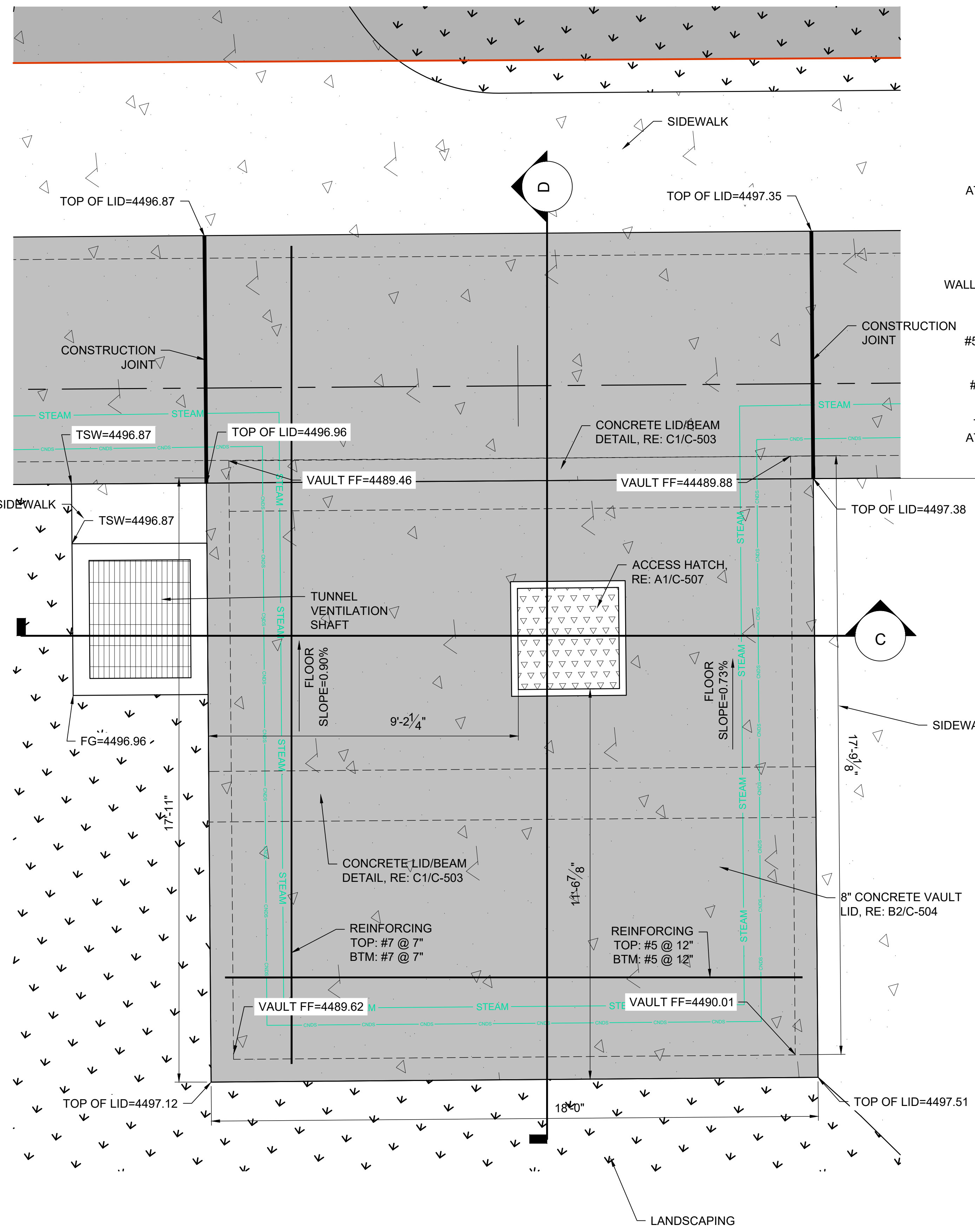
NO.	REVISIONS	DATE

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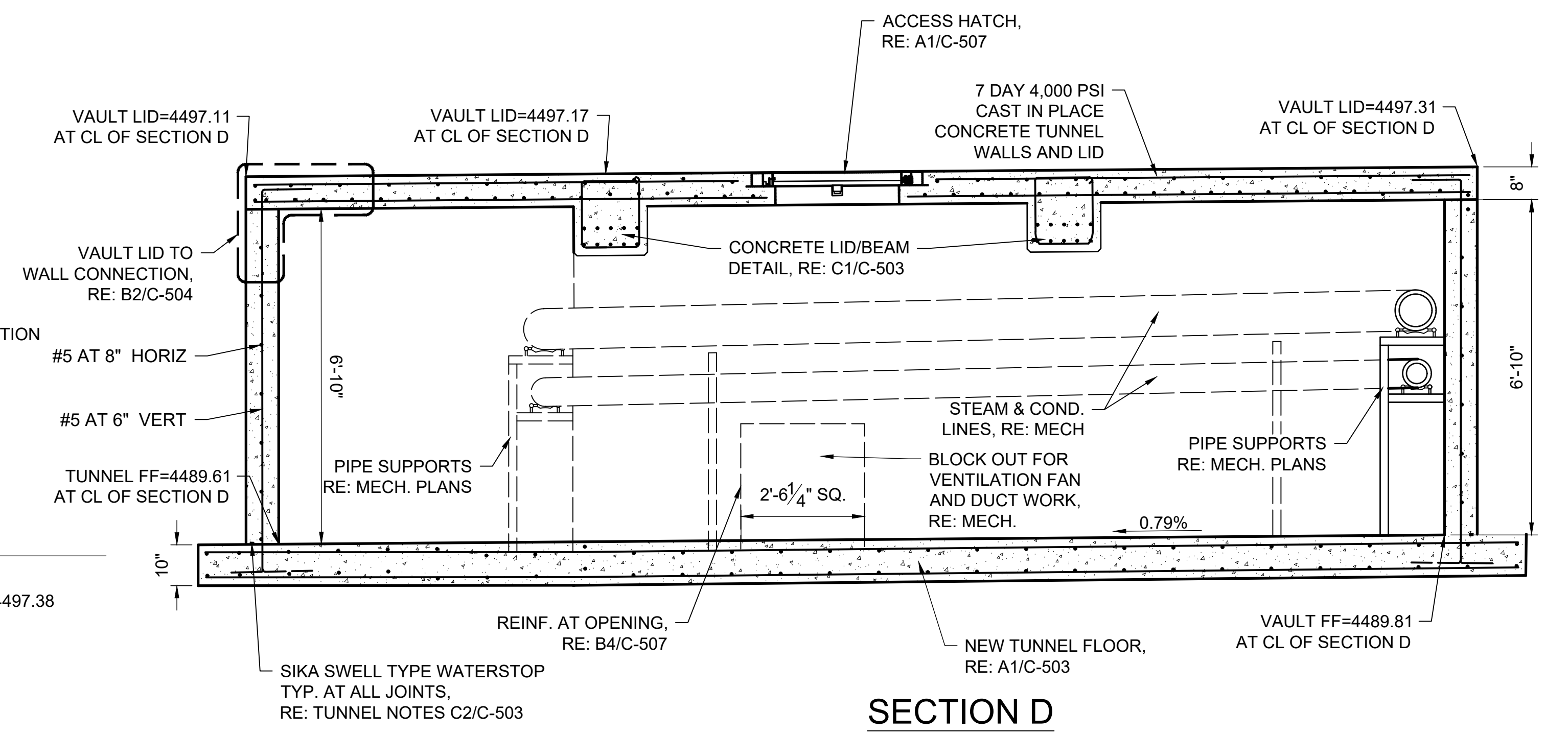
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
ENLARGED SITE DETAIL

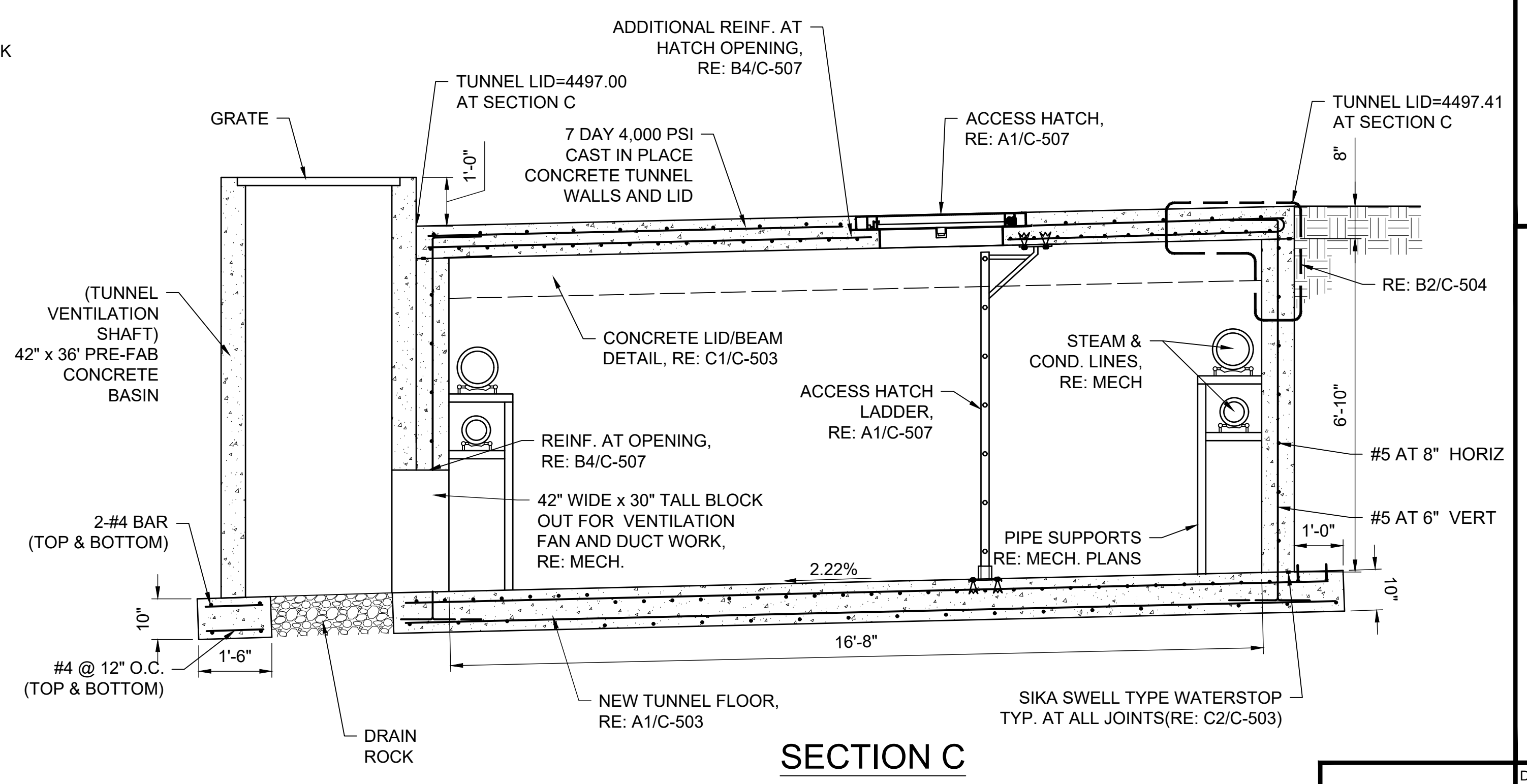
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PROJECT NO. 208106-088  
SHEET NO. C-404



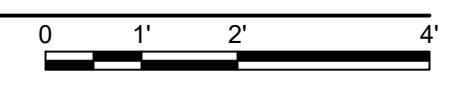
**A1** ENLARGED EXPANSION LOOP VAULT PLAN AND SECTION DETAIL  
1/2" = 1'-0"



**SECTION D**



**SECTION C**



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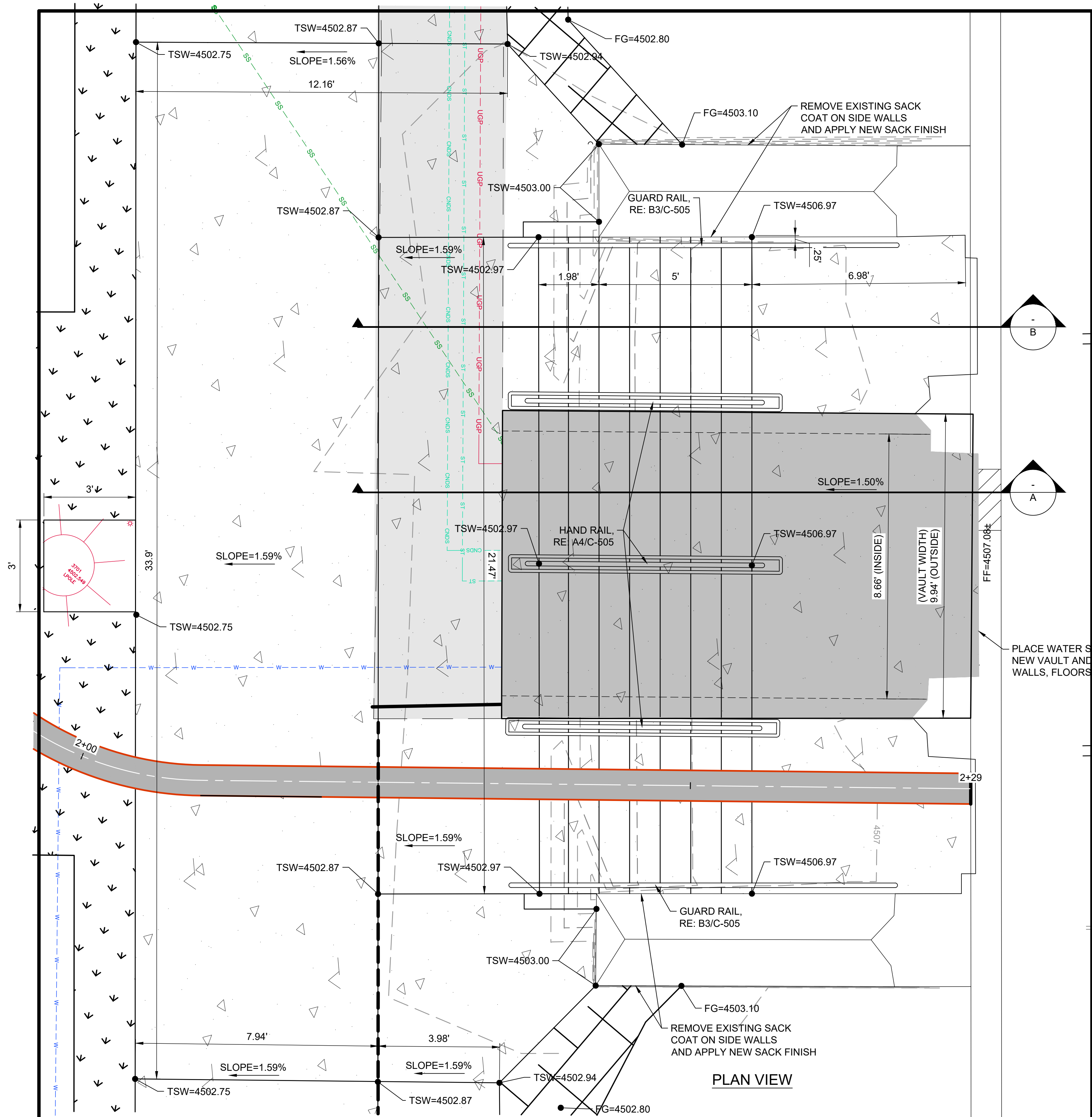
NO.	REVISIONS	DATE

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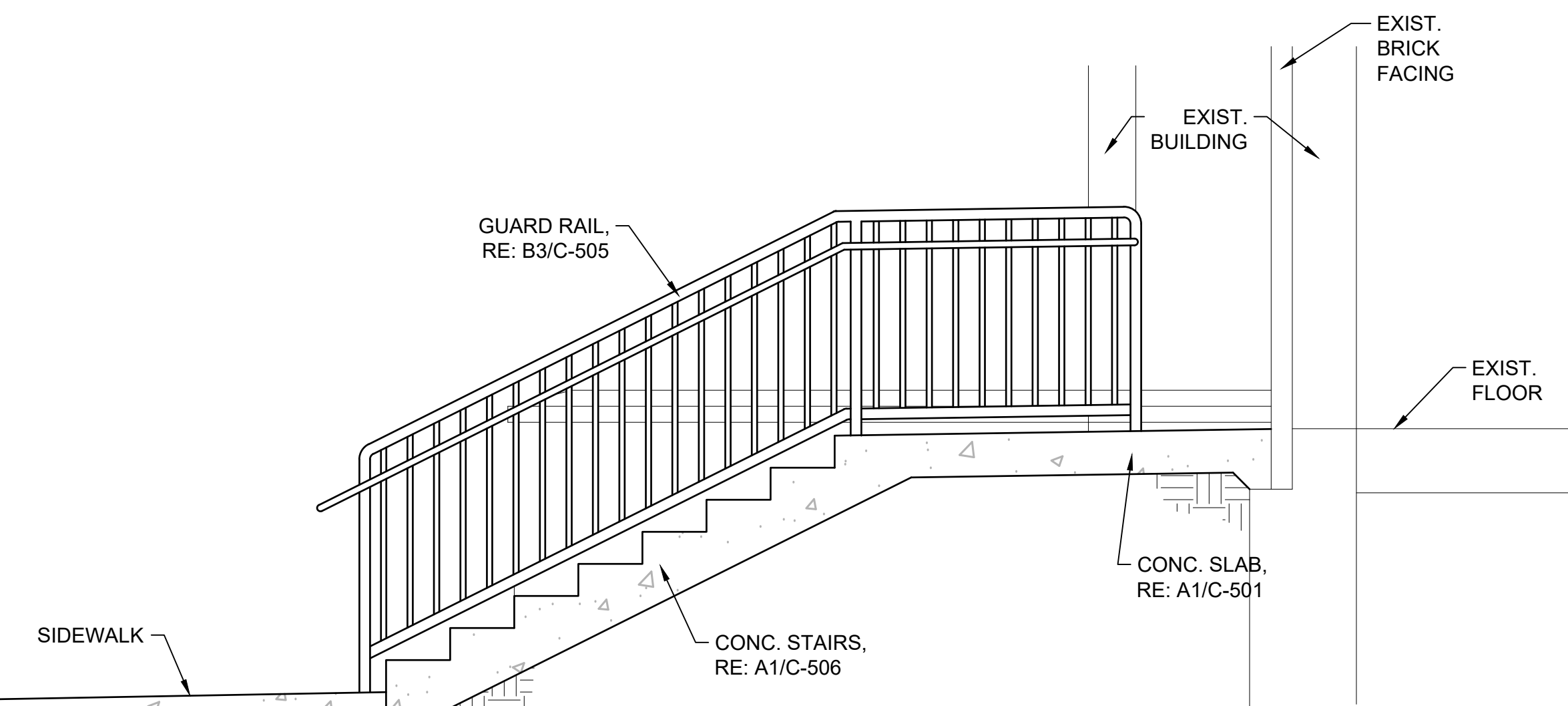
DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

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ENLARGED SITE DETAIL

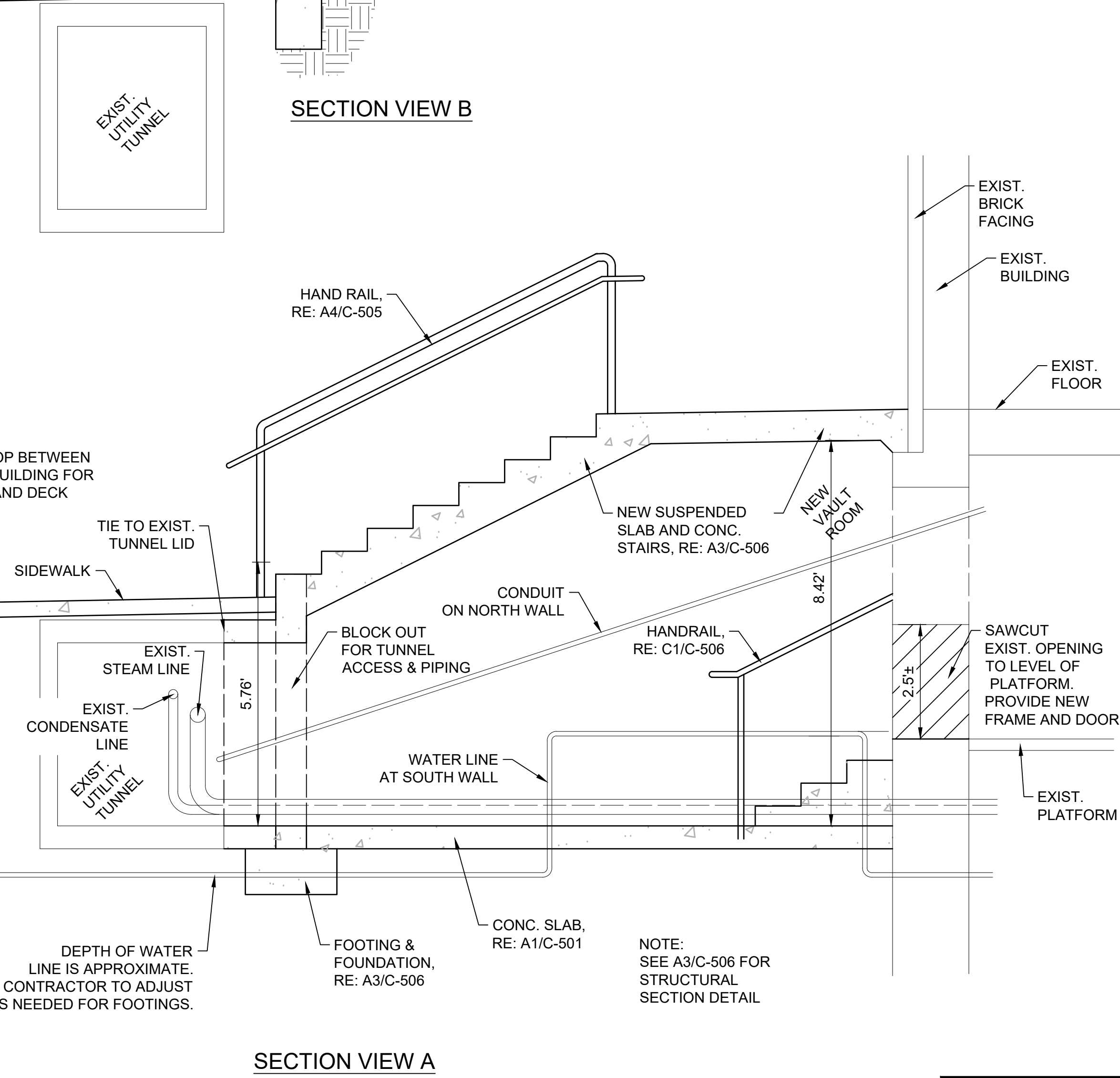
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VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-405



PLAN VIEW



SECTION VIEW B

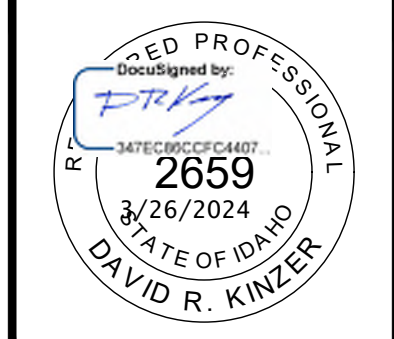


SECTION VIEW A

**A1** ENLARGED ADMINISTRATIVE BUILDING STAIRS PLAN  
1:2

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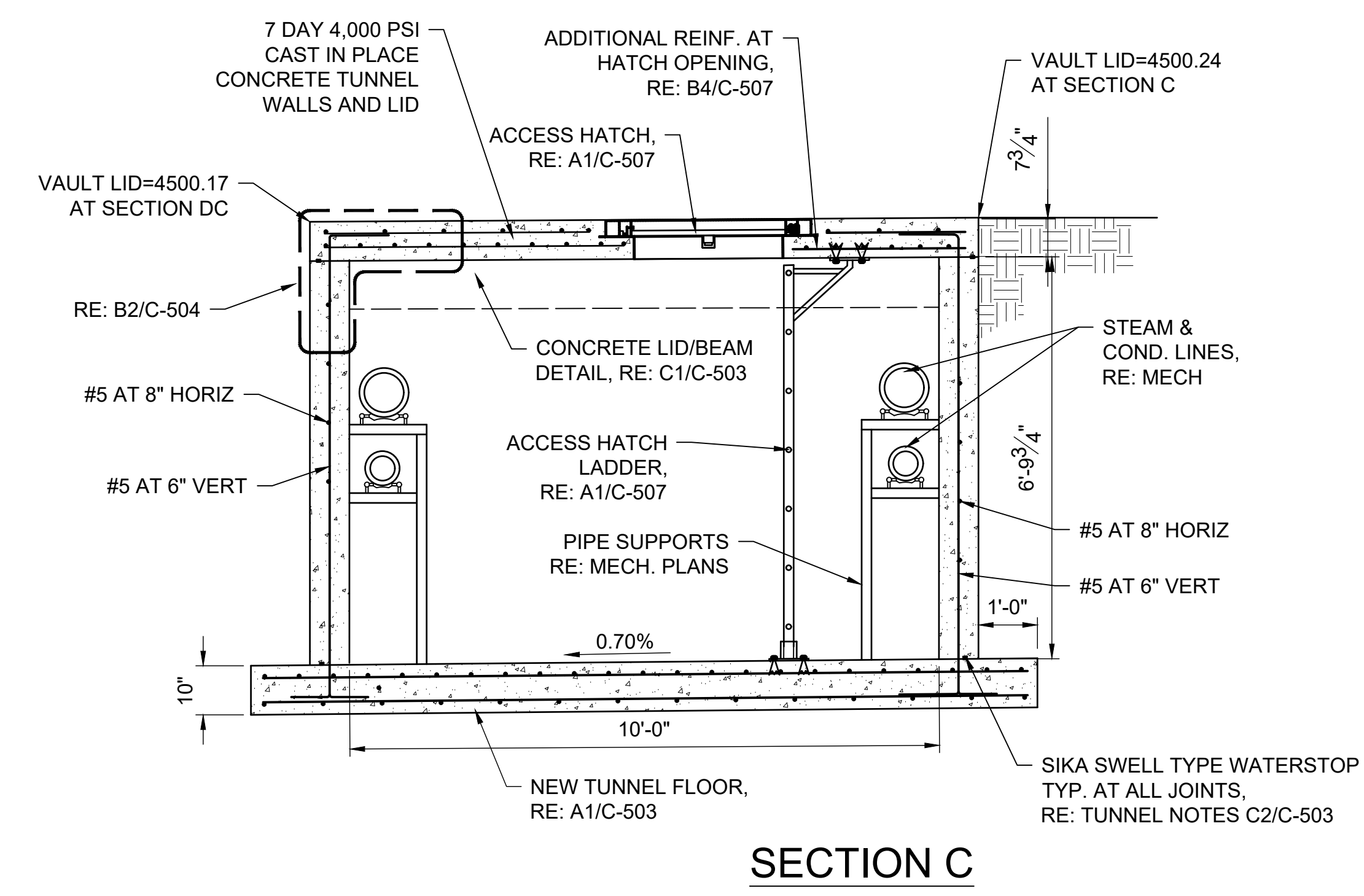
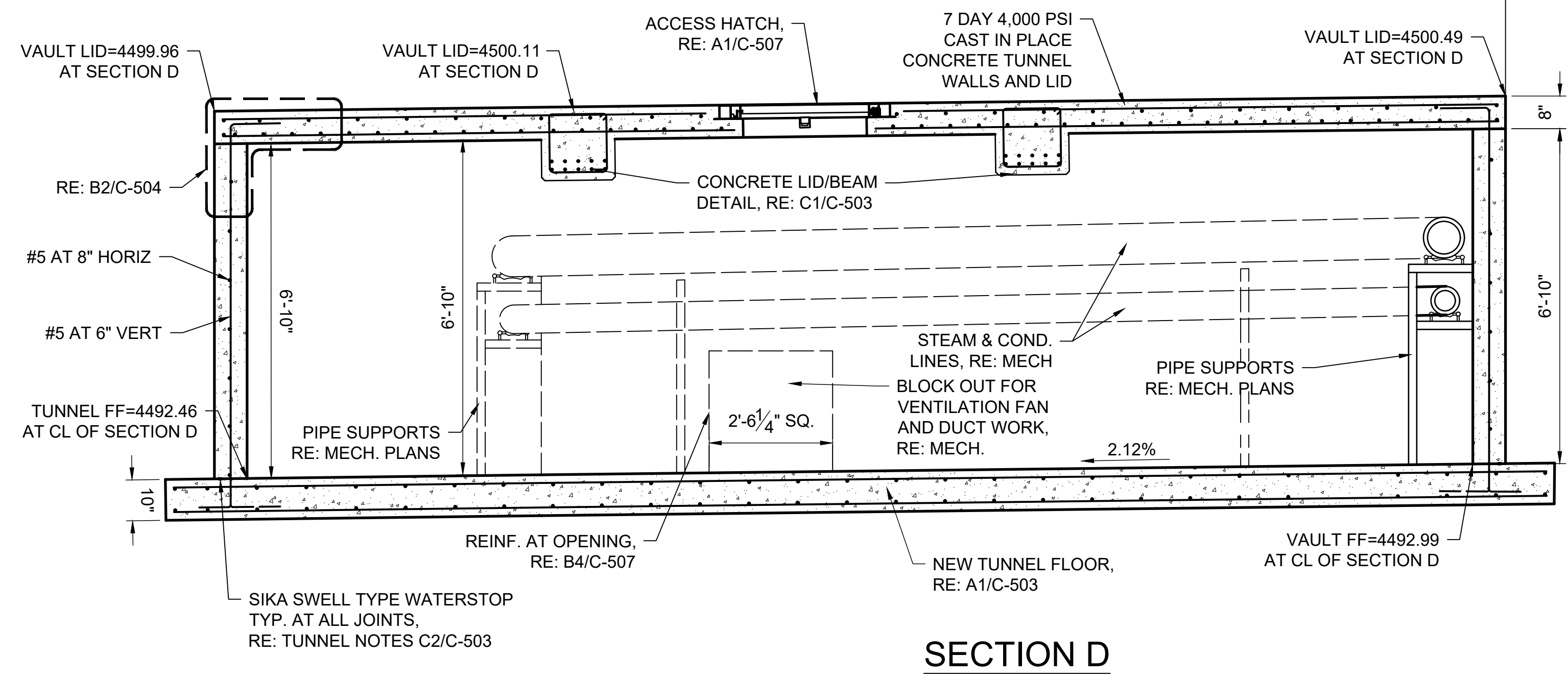
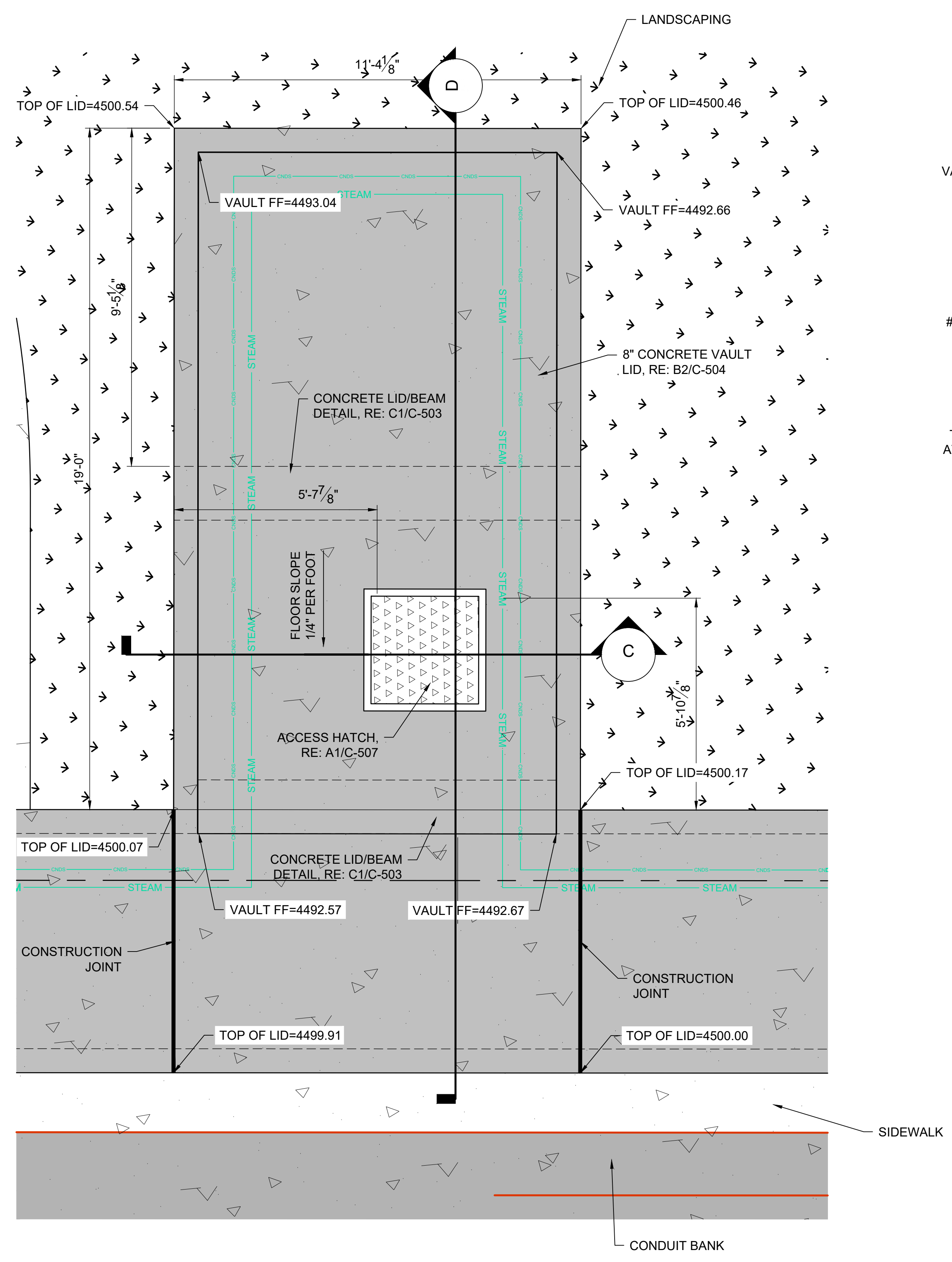
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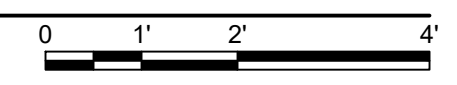
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ENLARGED SITE DETAIL

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**A1** ENLARGED EXPANSION LOOP VAULT PLAN AND SECTION DETAIL

1/2" = 1'-0"



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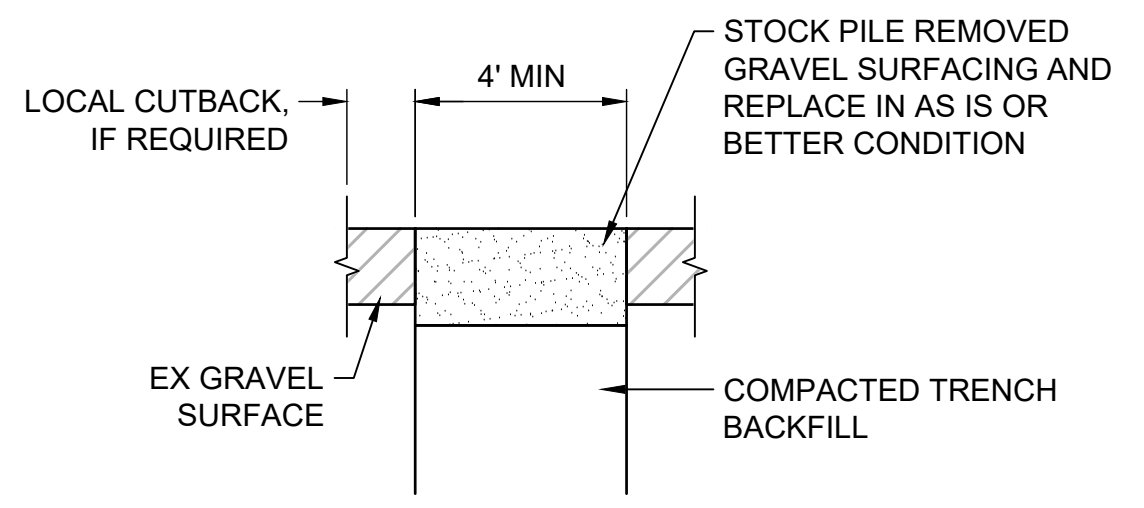
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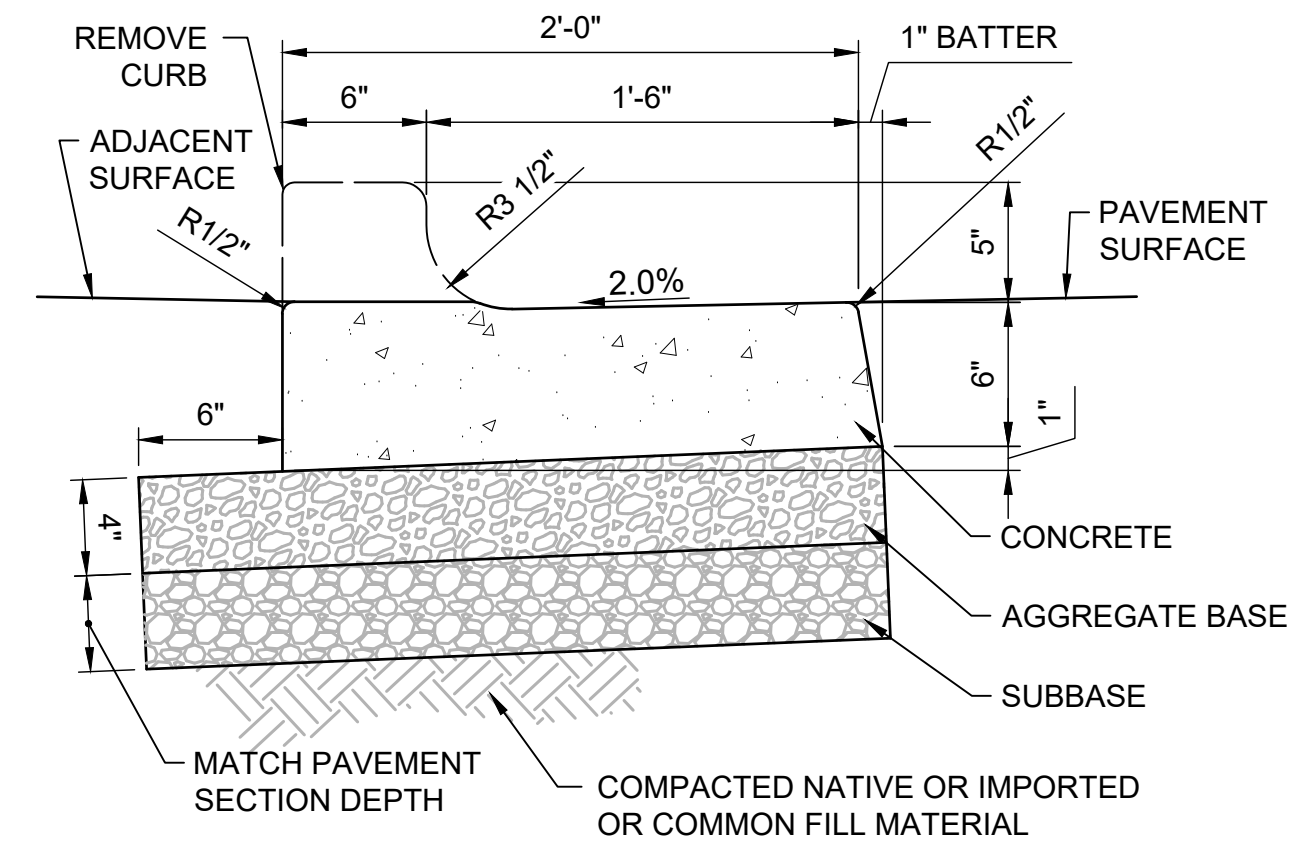
DPW PROJECT #21-654  
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 SITE DETAILS

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 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. C-502

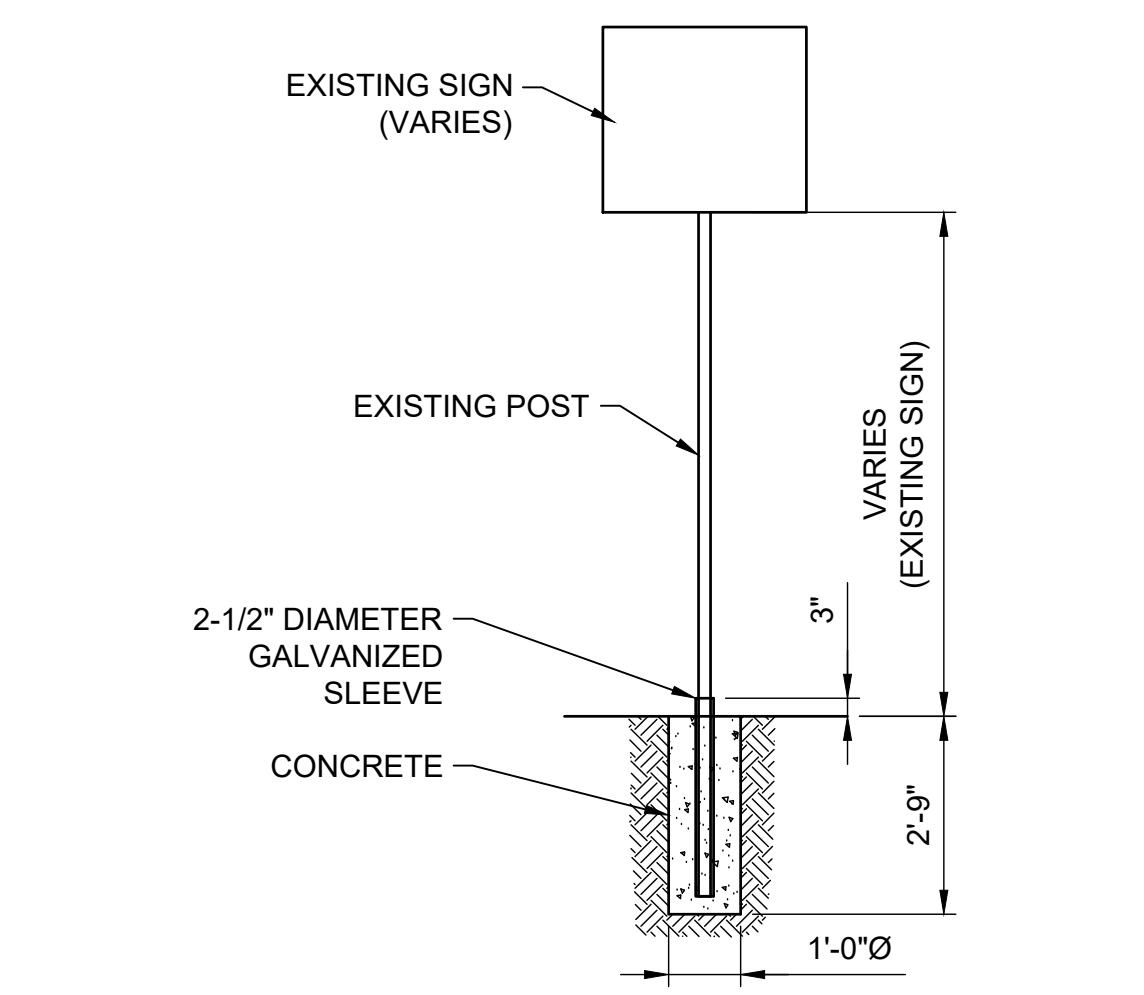


**C1** SURFACE REPAIR - GRAVEL  
 N.T.S.

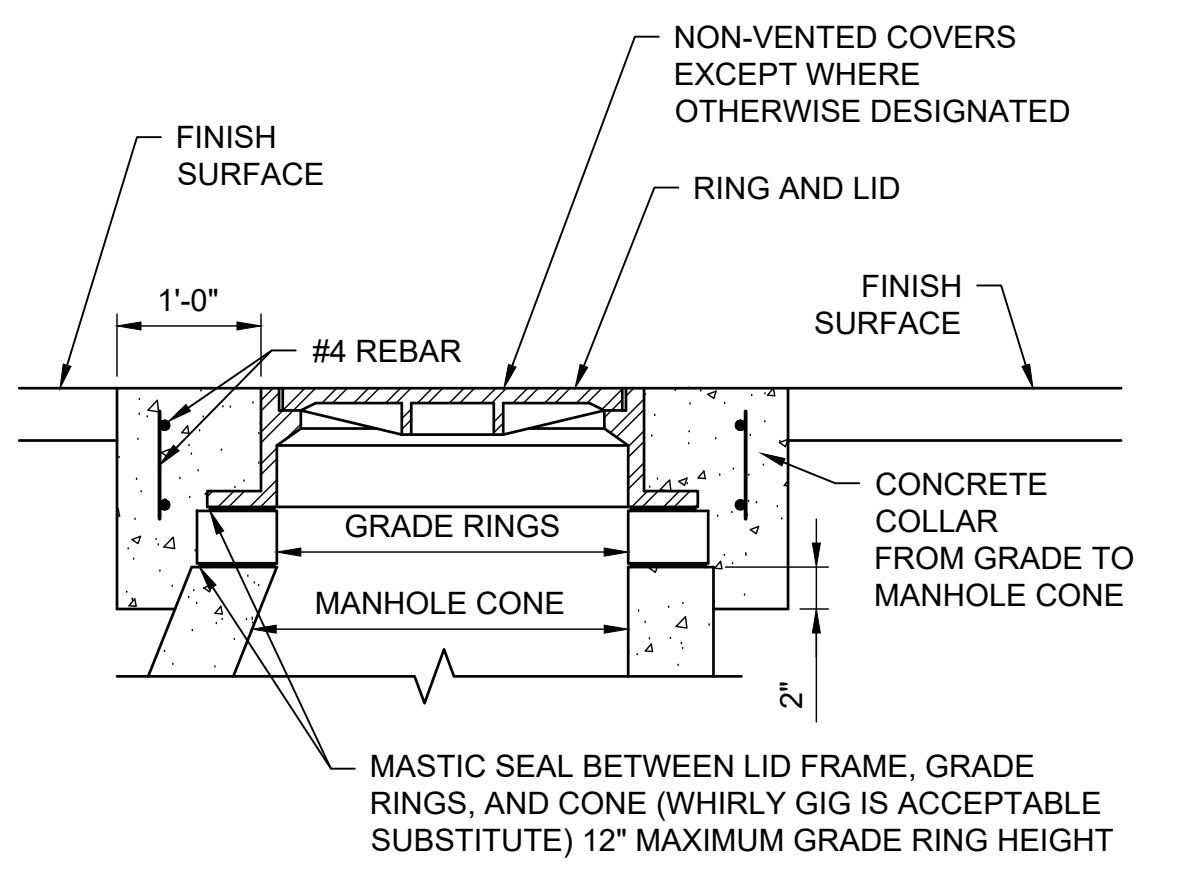


**C2** STANDARD CURB & GUTTER - CUT  
 1-1/2" = 1'-0"

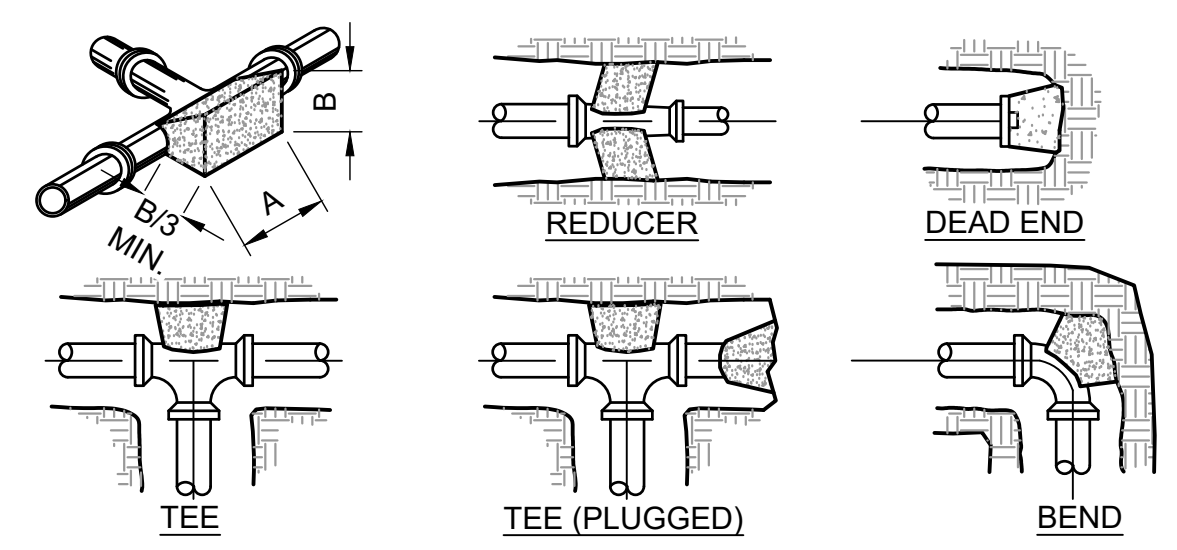
- NOTES:**
1. PLACE EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII, ADJACENT TO STRUCTURES AND 60-FOOT MAXIMUM SPACING.
  2. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 8-FOOT MAXIMUM SPACING.
  3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & COMPACTION REQUIREMENTS.
  4. ADJACENT WALKING SURFACES TO BE FLUSH WITH TOP OF CURB. ADJACENT LAWN OR LANDSCAPE SURFACES TO BE 1-INCH BELOW TOP OF CURB.



**B1** REINSTALL EXISTING SIGN - TYPICAL  
 3/8" = 1'-0"



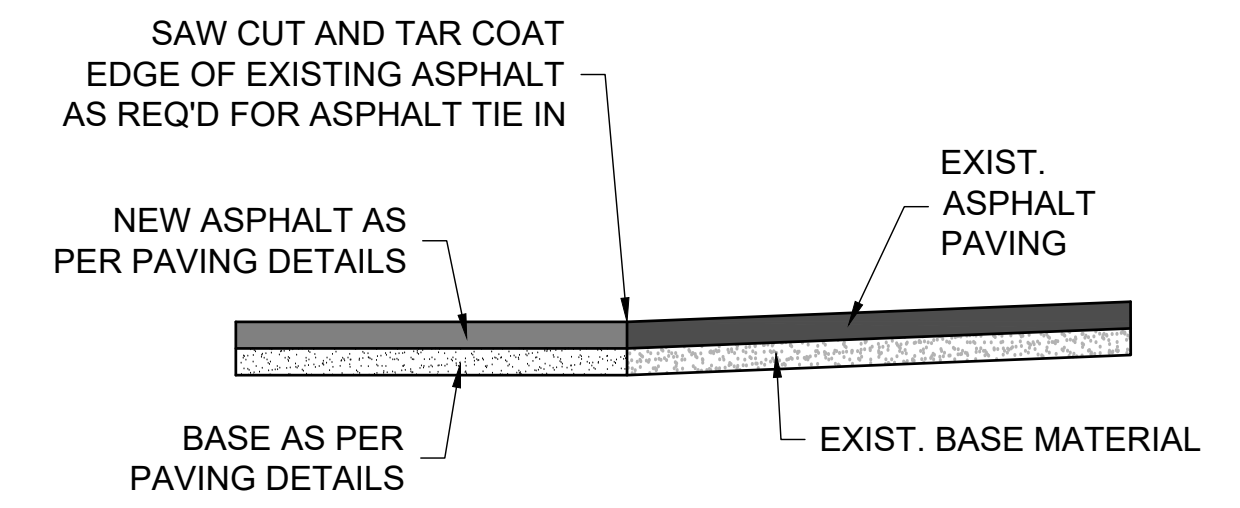
**B2** CONCRETE COLLAR AT MANHOLES  
 3/4" = 1'-0"



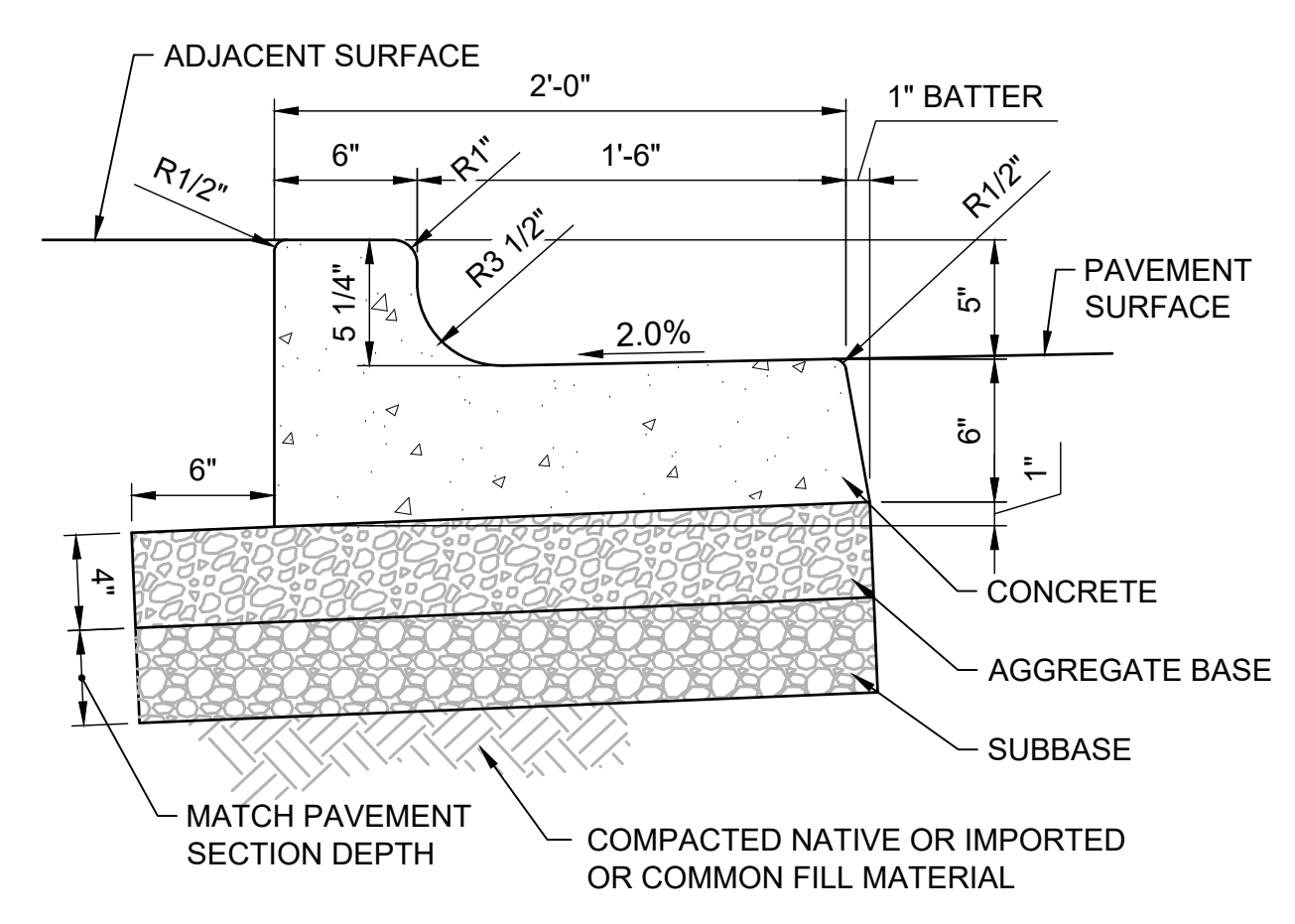
DIMENSIONS FOR THRUST BLOCKING

FITTING SIZES	TEES & PLUGS		90° BEND		45° BEND & WYES		REDUCERS & 22 1/2° BEND	
	A	B	A	B	A	B	A	B
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"

**B3** TYPICAL THRUST BLOCK INSTALLATION  
 N.T.S.

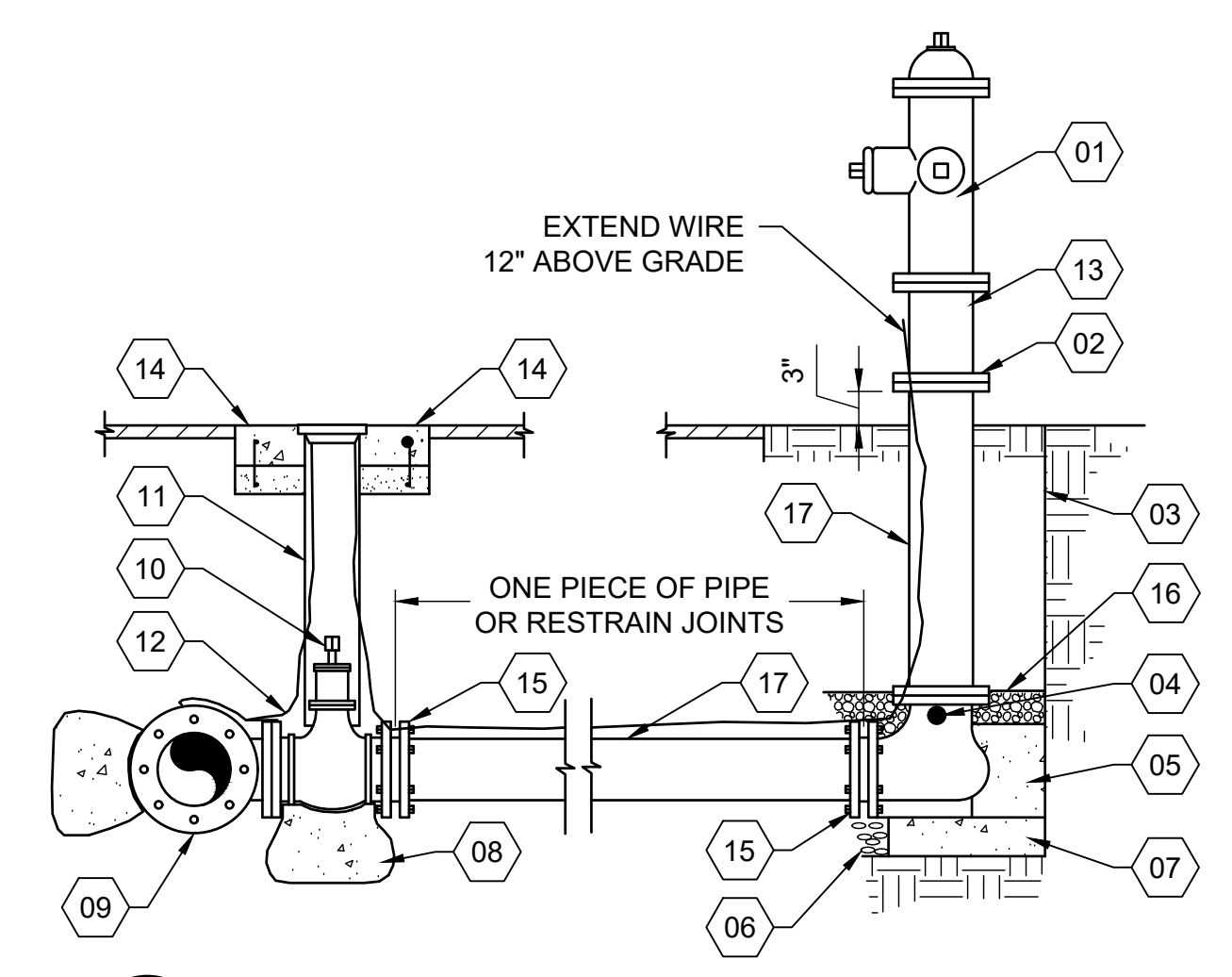


**B4** ASPHALT TIE IN  
 N.T.S.



**A1** STANDARD CURB & GUTTER  
 1-1/2" = 1'-0"

- NOTES:**
1. PLACE EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII, ADJACENT TO STRUCTURES AND 60-FOOT MAXIMUM SPACING.
  2. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS 8-FOOT MAXIMUM SPACING.
  3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & COMPACTION REQUIREMENTS.
  4. ADJACENT WALKING SURFACES TO BE FLUSH WITH TOP OF CURB. ADJACENT LAWN OR LANDSCAPE SURFACES TO BE 1-INCH BELOW TOP OF CURB.

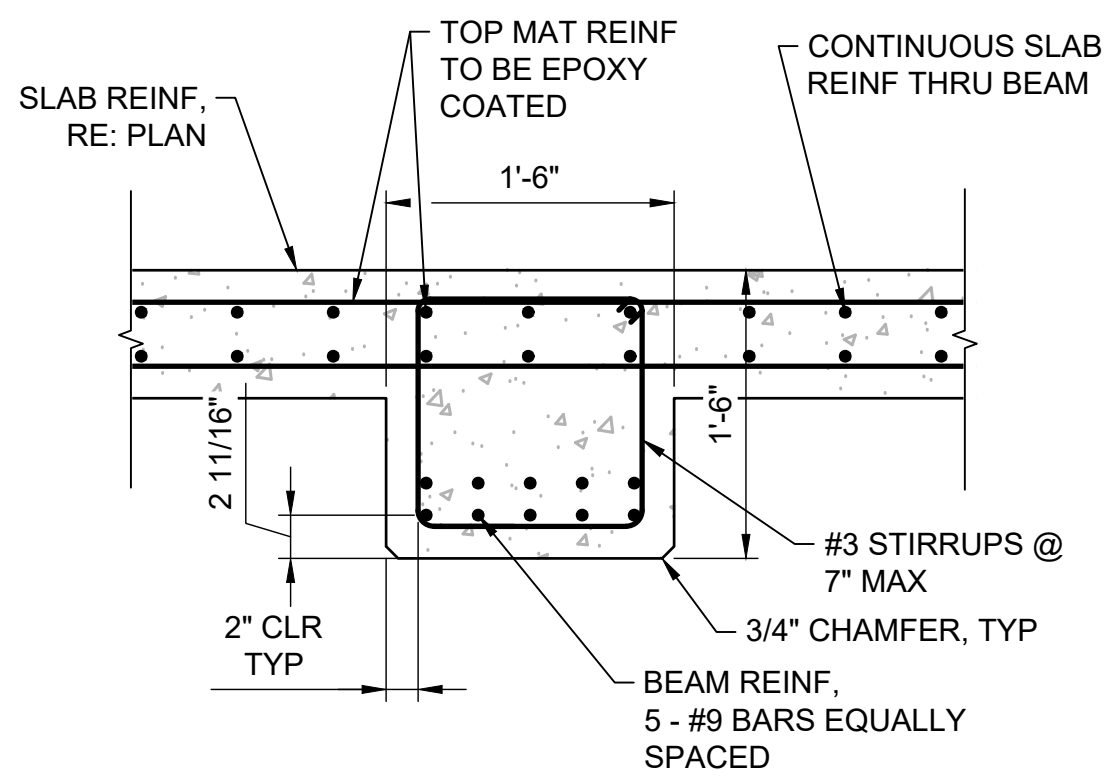


**A3** FIRE HYDRANT  
 3/4" = 1'-0"

- KEYNOTE**
- 01 FIRE HYDRANT (FACTORY PAINTED RED IN COLOR)
  - 02 BREAK AWAY BOLTS.
  - 03 END OF TRENCH.
  - 04 DRAIN - KEEP CLEAR.
  - 05 CAST IN PLACE CONCRETE THRUST BLOCK (4 SQ. FT. OF THRUST BLOCK REQUIRED)
  - 06 1" DRAIN ROCK EXTENDS 12" HORIZONTALLY FROM EACH SIDE OF CONCRETE BASE AND THRUST BLOCK AND VERTICALLY TO 2" ABOVE HYDRANT DRAIN WALL.
  - 07 PRECAST CONCRETE BLOCK 1'x1'x6" THICK.
  - 08 VALVE SUPPORT (PRECAST OR CAST IN PLACE).
  - 09 TEE (MjxMjxFLANGE) WITH THRUST BLOCK.
  - 10 6" C.I. AUXILIARY VALVE (MjxFLANGE).
  - 11 CAST IRON VALVE BOX AND LID.
  - 12 NO. 12 AWG. COPPER WIRE FINDER.
  - 13 12" C.I. PIPE SPOOL
  - 14 VALVE BOX AND LID
  - 15 MECHANICAL CONNECTION.
  - 16 COVER DRAIN ROCK WITH FILTER FABRIC.
  - 17 6" DIAMETER PIPE.

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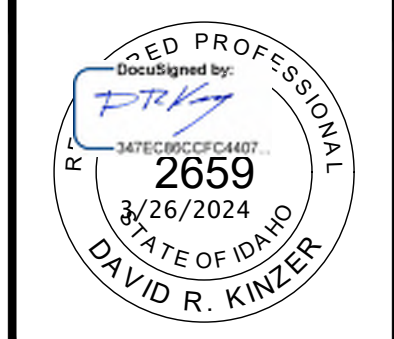


**C1** SLAB AT CONCRETE BEAM  
1" = 1'-0"  
0 1/2' 1' 2'

**TUNNEL NOTES:**

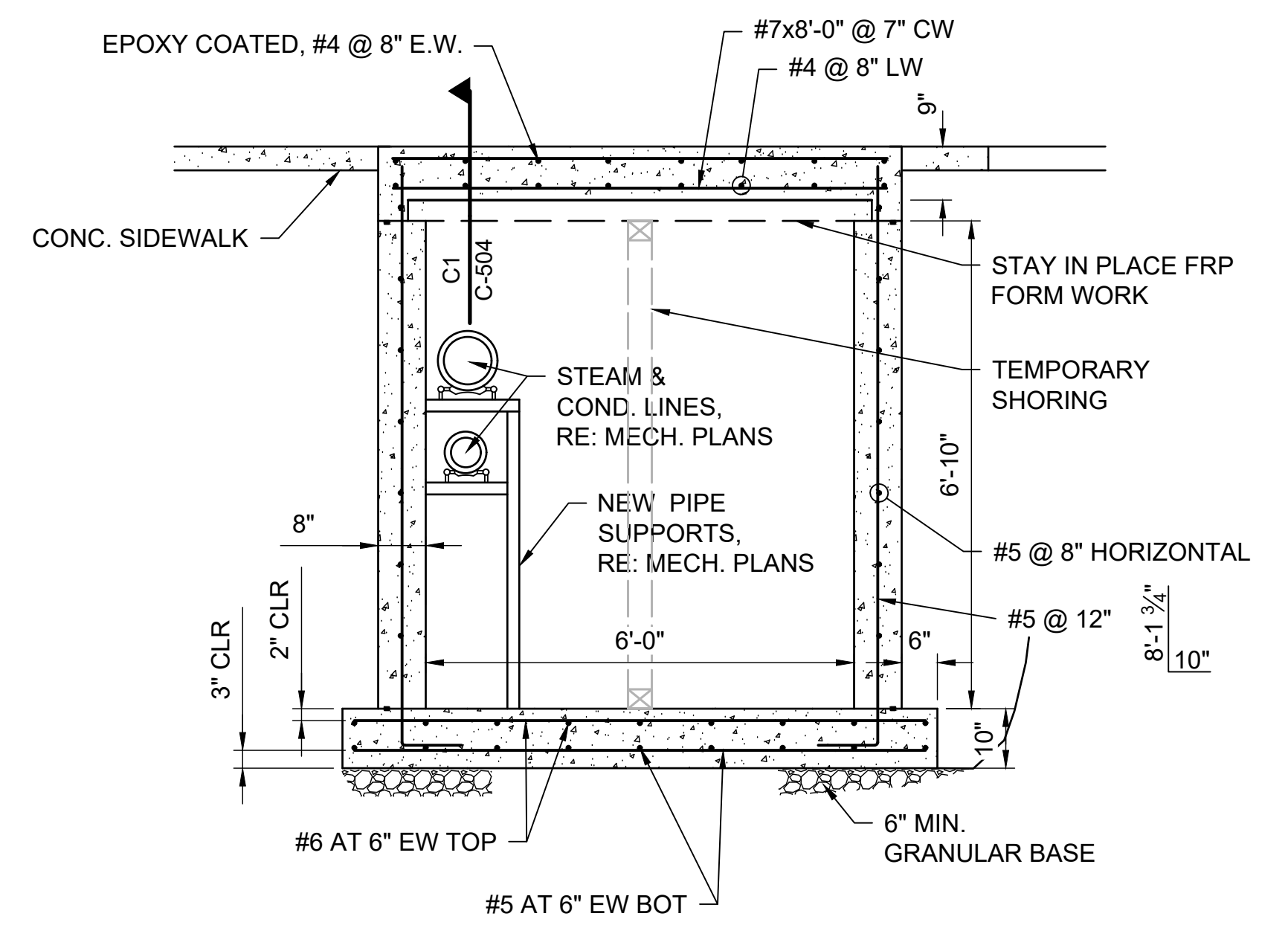
- NO HEAVY EQUIPMENT, TRUCKS, BACKHOES ETC. SHOULD BE PLACED OVER TOP OF TUNNEL, UNTIL CONCRETE REACHES FULL STRENGTH.
- ALL JOINTS TO BE SEALED WITH MASTIC JOINT SEAL WITH BUTYL COMPOUND PLASTIC WRAP.
- EXTERIOR WALL OF TUNNEL TO BE SEALED WITH A COLD TAR / ASPHALTIC COATING.
- PROVIDE PROTECTION & SUPPORT OF EXISTING POWER, CABLE, AND COMMUNICATIONS LINES ETC. DURING DEMOLITION OF EXISTING AND CONSTRUCTION OF NEW.
- EXISTING UTILITIES SUCH AS POWER, COMMUNICATIONS, WATER, SEWER, STORM DRAIN, ETC. TO REMAIN IN SERVICE THROUGH ENTIRETY OF PROJECT.
- ALL CONCRETE TO BE F<sub>c</sub>=4,000 PSI MIN. @ 28 DAYS.
- TUNNEL AND VAULT HAS BEEN DESIGNED FOR HS-20 LOADING.
- PLACE SIKA SWELL TYPE WATERSTOP AT ALL HORIZONTAL AND VERTICAL JOINTS. NEW CONCRETE TO NEW CONCRETE AND NEW CONCRETE TO EXISTING CONCRETE.
- SEE ELECTRICAL AND MECHANICAL PLANS FOR MECHANICAL AND ELECTRICAL DETAILS.
- WHEN CONNECTING TO EXISTING TUNNEL LID, DO A TEST DRILL HOLE TO CHECK THICKNESS OF SLAB PRIOR TO NEW BAR PLACEMENT. IF LESS THAN 6" CONTACT ENGINEER OF RECORD.
- DO NOT BACK FILL TUNNEL WALLS UNTIL THE TUNNEL ROOF HAS BEEN PLACED AND REACHED 100% OF THE DESIGN COMPRESSION STRENGTH.
- TOP MAT OF REBAR IN TUNNEL LID AND EXPANSION LOOP VAULT TO BE EPOXY COATED.
- BEND BARS IN ACCORDANCE WITH ACI 318. LAP #5 BARS 30". LAP #4 BARS 24". LAP #4 COATED BARS 30".
- PLACE CONSTRUCTION JOINTS IN WALL AND TOP AND BOTTOM SLABS AT 12'-0" OC. RE: B1 & C3/C-504

**C2** TUNNEL NOTES  
N.T.S.



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NOTES:  
RE: C2/C-503 FOR CONSTRUCTION TUNNEL NOTES.

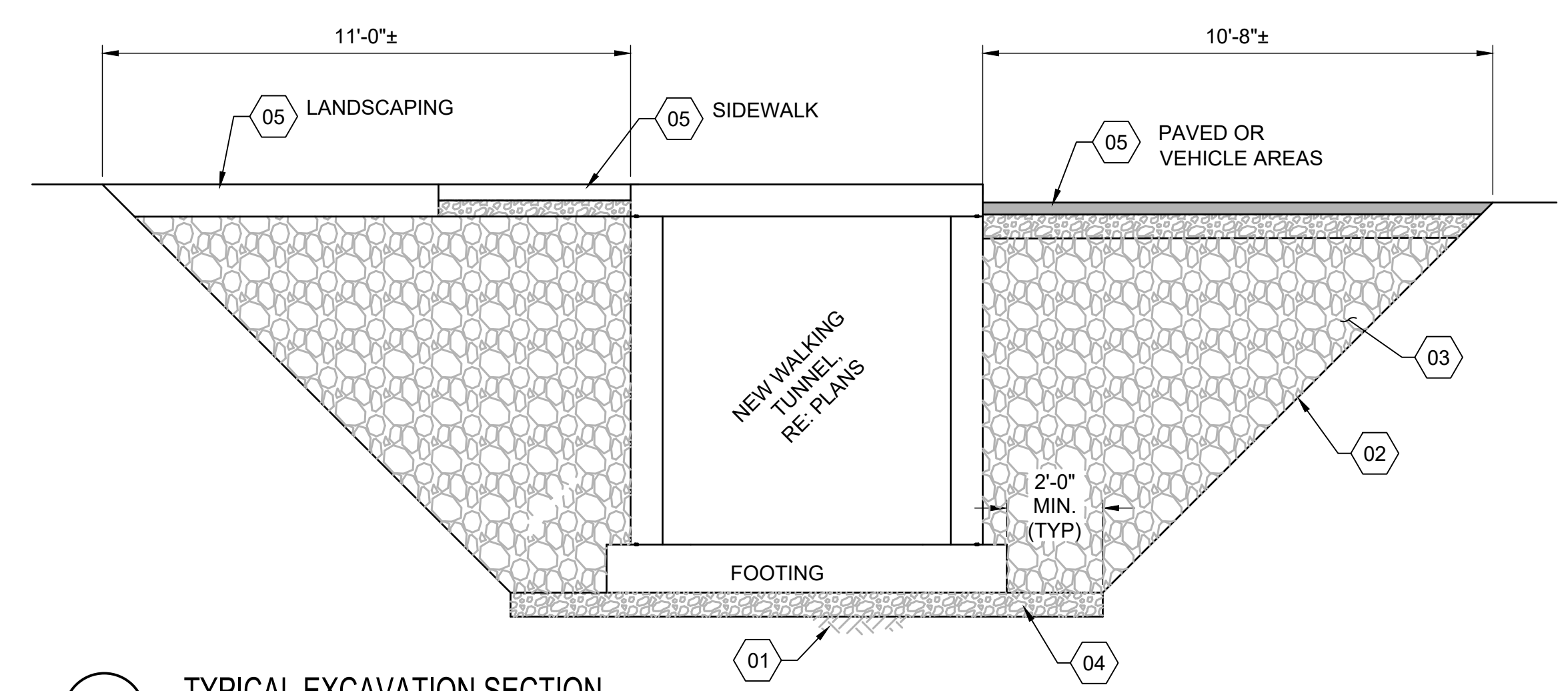
**A1** STEAM TUNNEL TYPICAL SECTION A1  
1/2" = 1'-0"  
0 1' 2' 4'

**KEYNOTES**

- MOISTURE CONDITION & COMPACT DISTURBED NATIVE MATERIAL. PROOF ROLL COMPACTED MATERIAL WITH A 10 TON EQUIVALENT ROLLER. COMPACTION IS ACCEPTABLE WHEN CHANGES IN DENSITY BETWEEN PASSES RESULTS IN LESS THAN 0.5 PCF CHANGE OR COMPACT TO 75% OF ASTM D1557.
- SLOPE PER OSHA REQUIREMENTS, TYPICAL
- 4-INCH AGGREGATE SUBBASE, COMPACT TO 95% IN ACCORDANCE WITH ASTM D1557, COMPACT IN 1-FOOT MAXIMUM LOOSE-LIFT THICKNESSES.
- 6" OF 3/4-INCH CRUSHED AGGREGATE, COMPACT TO 95% IN ACCORDANCE WITH ASTM D1557.
- SEE SITE PLAN FOR SURFACE FINISH REQUIREMENTS.

**NOTES:**

- THIS TYPICAL SECTION SHALL BE APPLIED TO ALL STRUCTURES CONSTRUCTED IN THIS PROJECT
- THIS IS A TYPICAL SECTION SO IS GENERAL TO THE PROJECT. EXCAVATION LIMITS MAY VARY DEPENDING APPROVED METHODS.



**A3** TYPICAL EXCAVATION SECTION  
3/8" = 1'-0"  
0 2' 4' 6'

DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
TUNNEL SECTION DETAILS

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-503



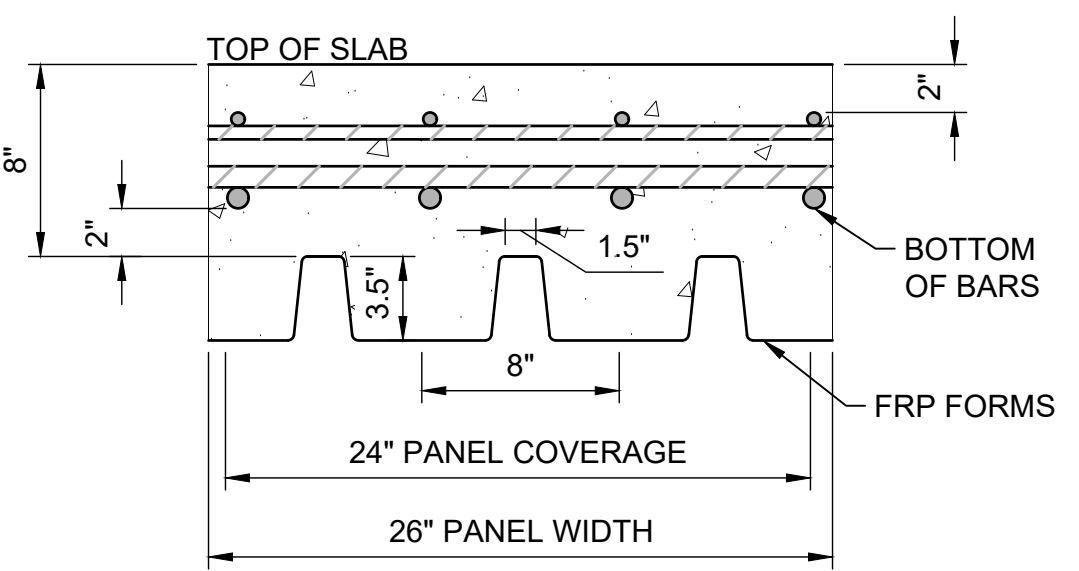
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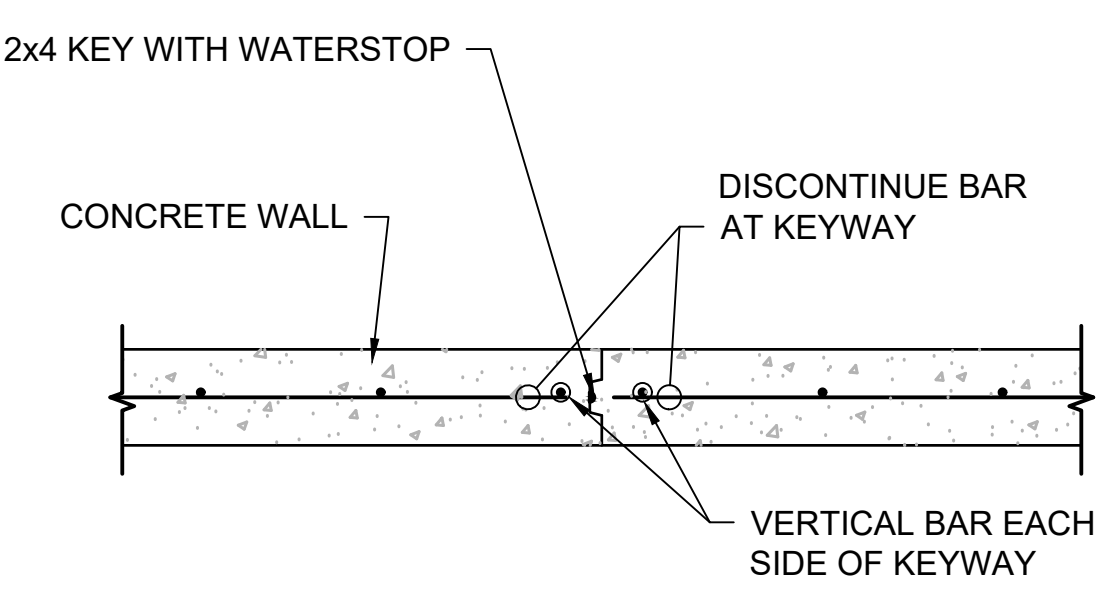
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

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TUNNEL SECTION DETAILS

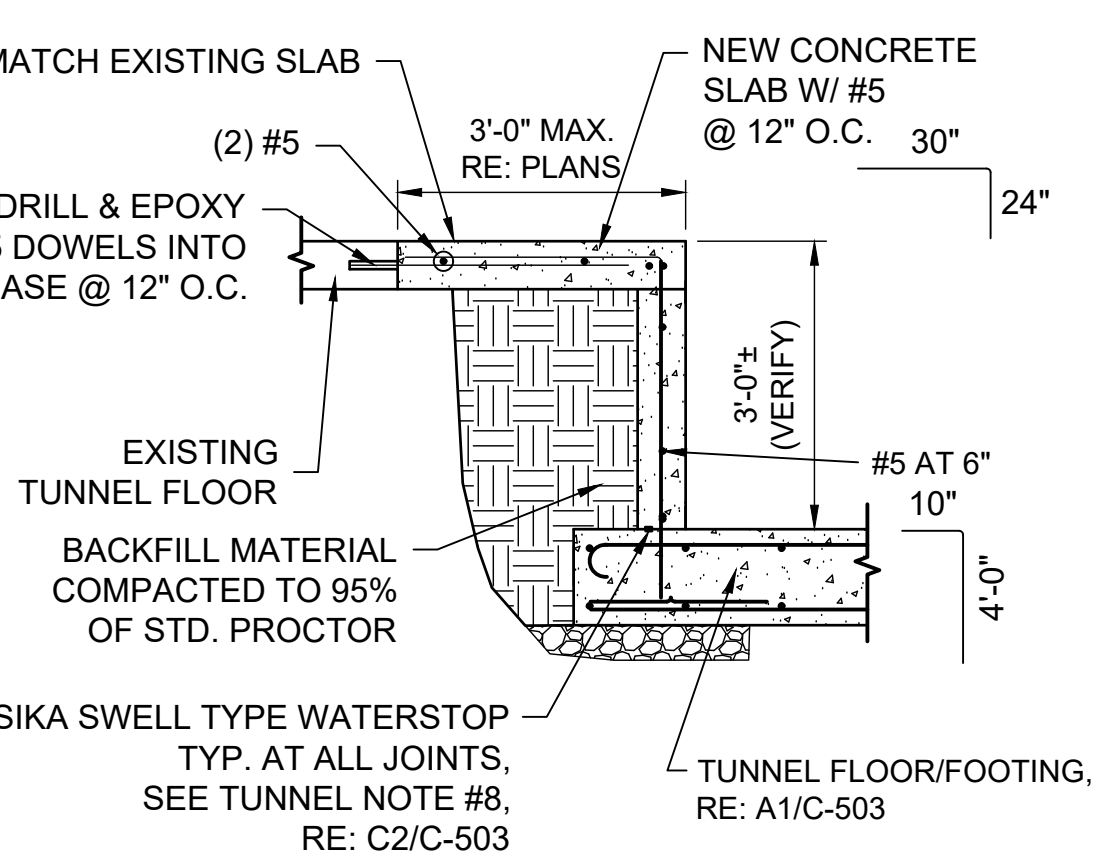
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PROJECT NO.  
208106-088  
SHEET NO.  
**C-504**



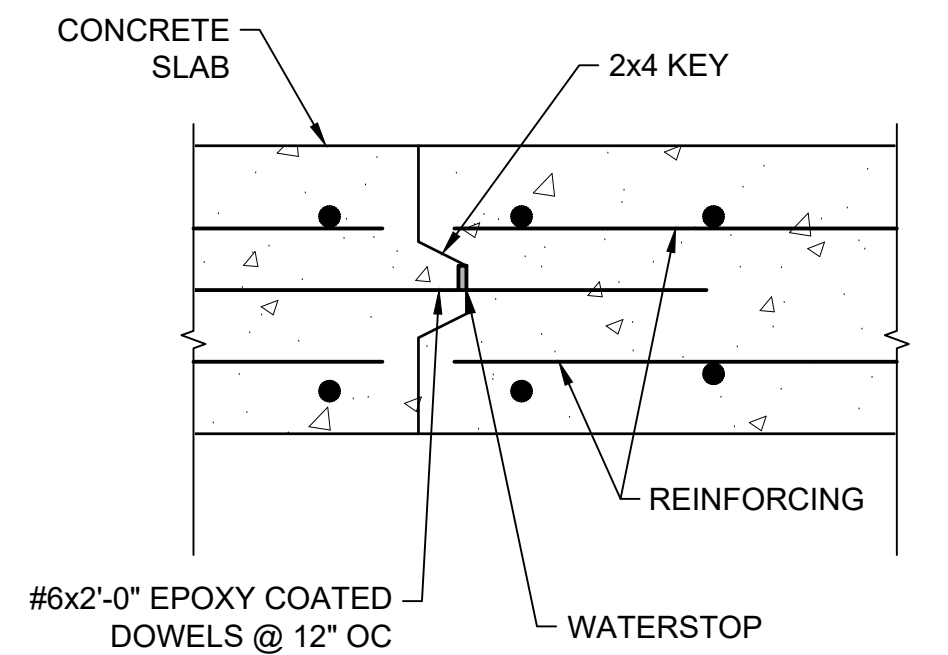
**C1** STAY IN PLACE FORM DETAIL  
N.T.S.



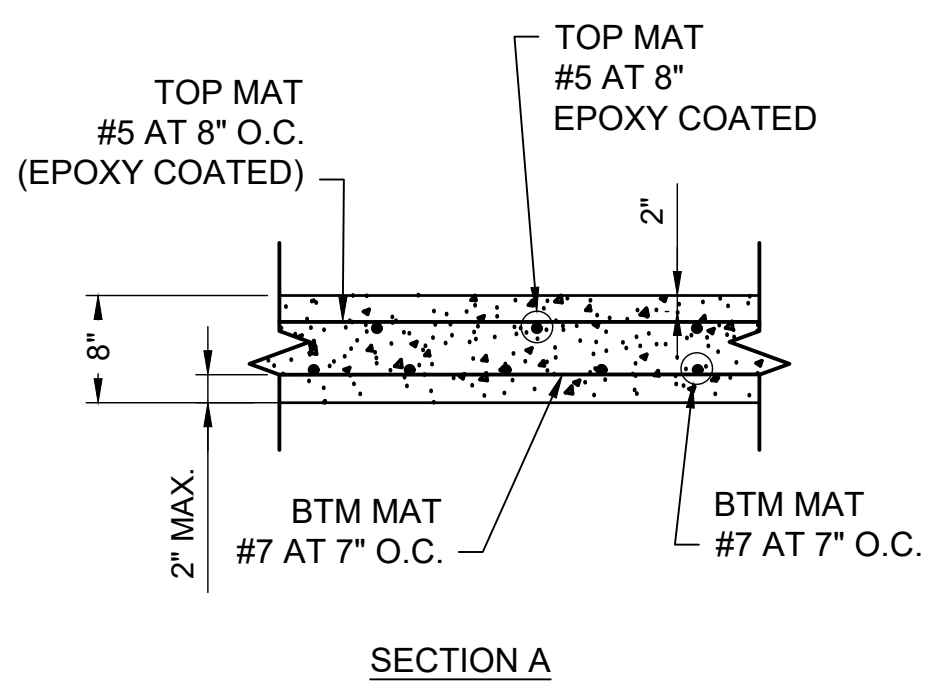
**B1** VERTICAL WALL CONSTRUCTION JOINT  
3/4" = 1'-0"



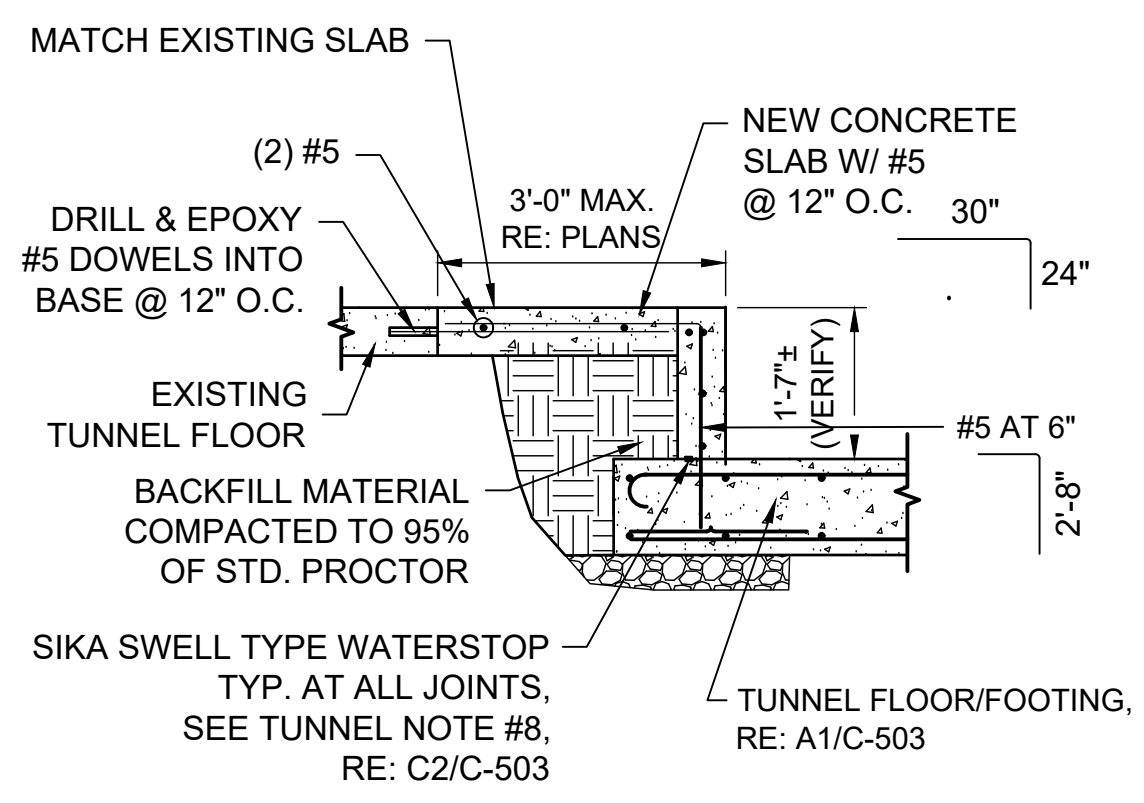
**A1** WALK TO CRAWL TUNNEL TRANSITION DETAIL  
1/2" = 1'-0"



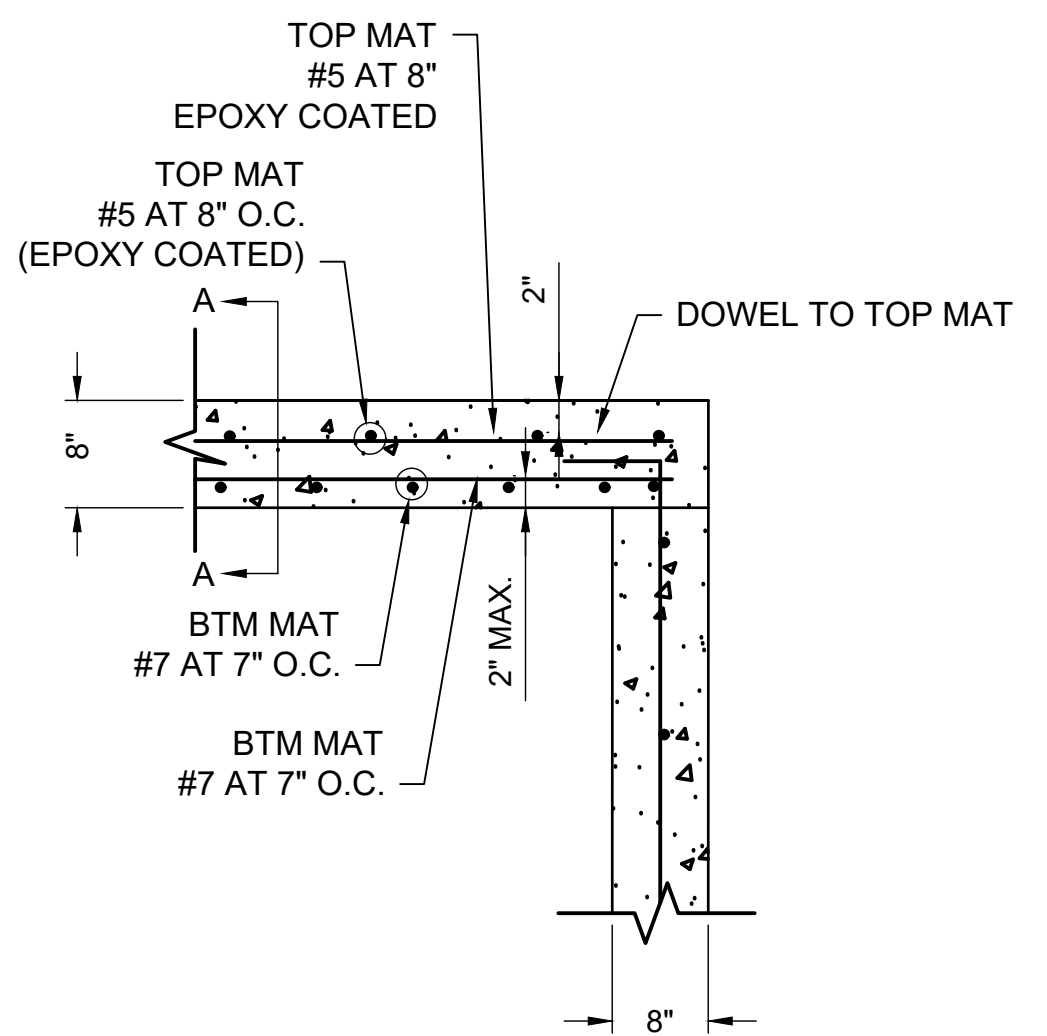
**C3** SLAB CONSTRUCTION JOINT  
N.T.S.



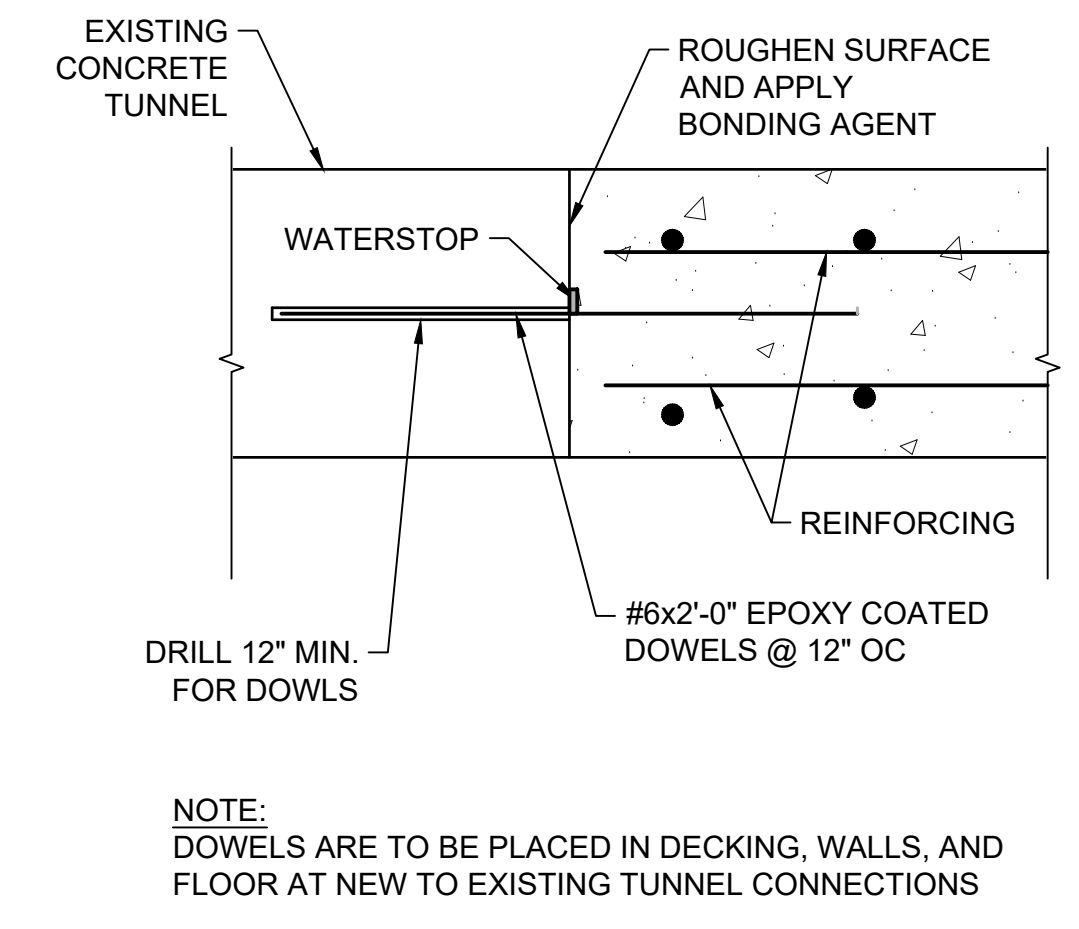
**B2** EXPANSION LOOP VAULT LID AND WALL CONNECTION  
N.T.S.



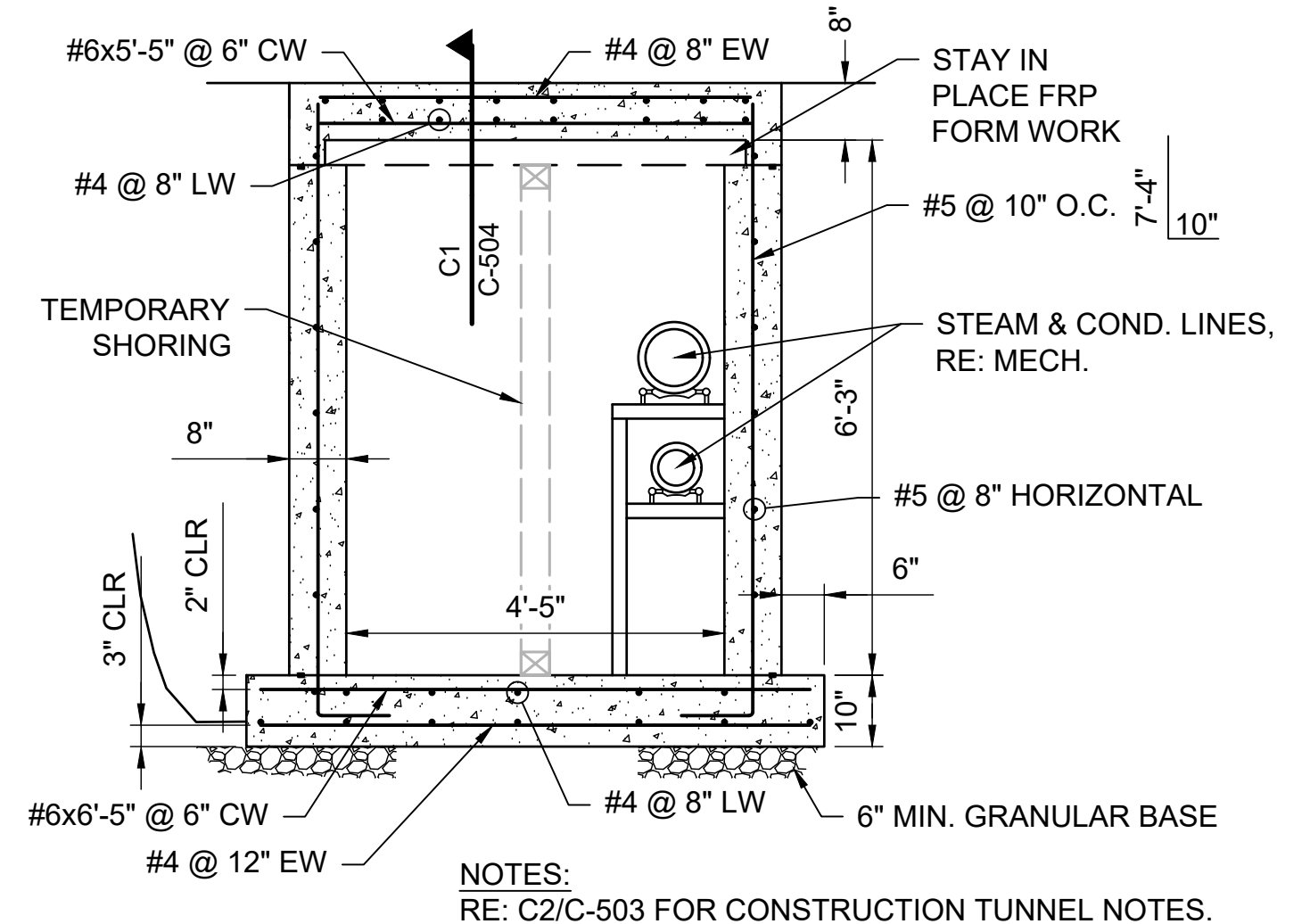
**A2** WALK TO CROUCH TUNNEL TRANSITION DETAIL  
1/2" = 1'-0"



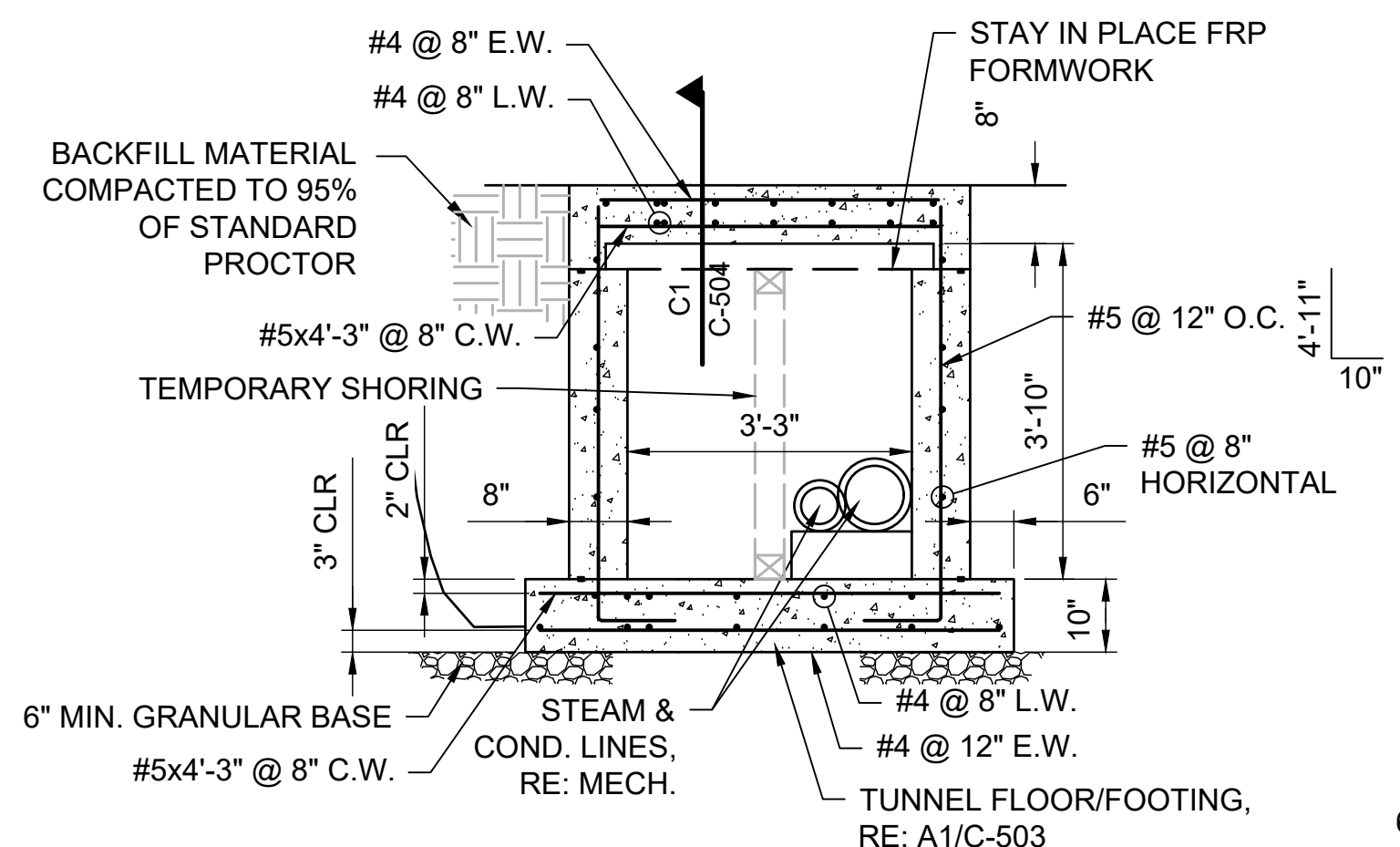
**A3** CRAWL TUNNEL SECTION  
1/2" = 1'-0"



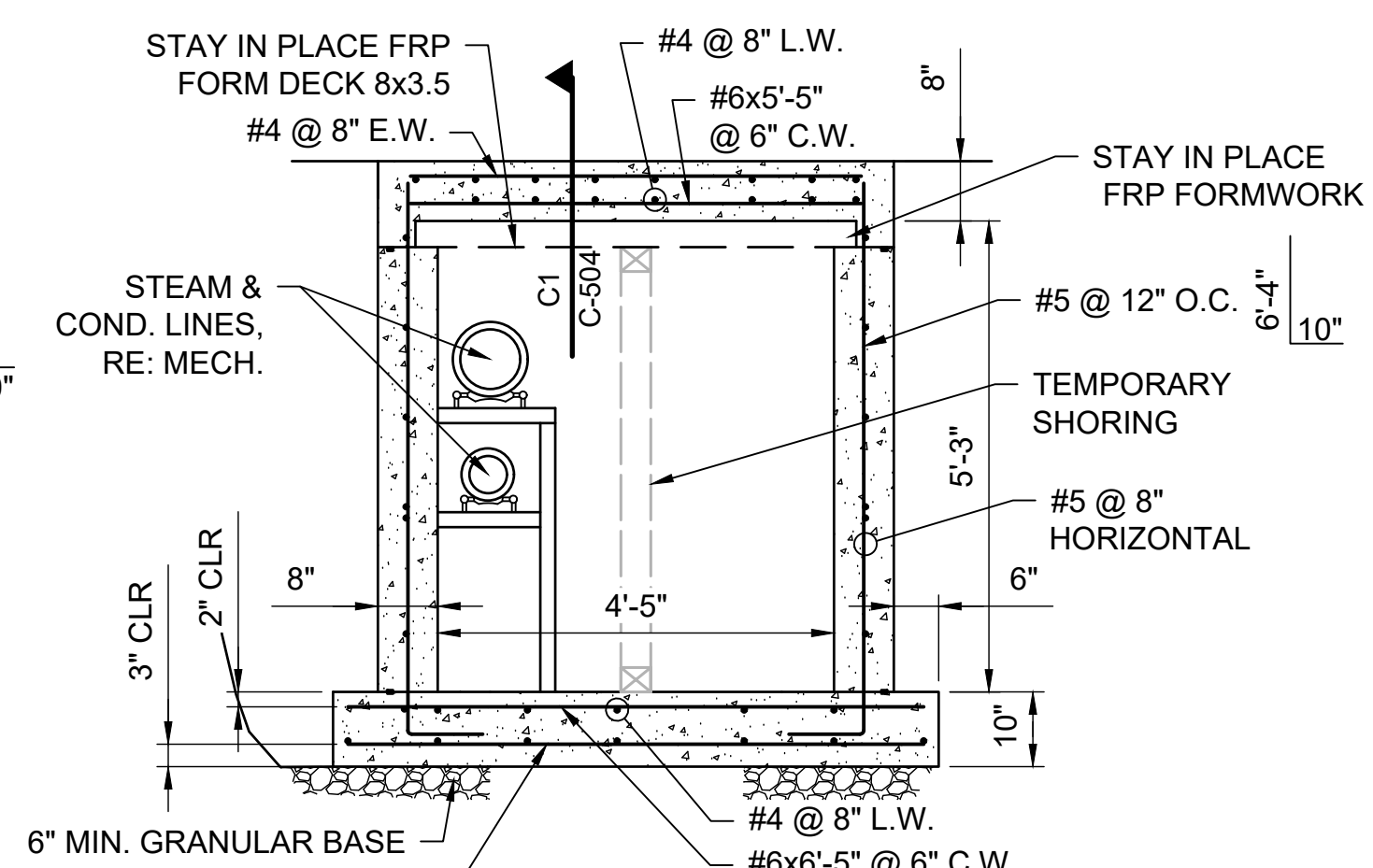
**C4** NEW TUNNEL TO EXISTING TUNNEL CONNECTION  
N.T.S.



**B4** WALK TUNNEL SECTION  
1/2" = 1'-0"



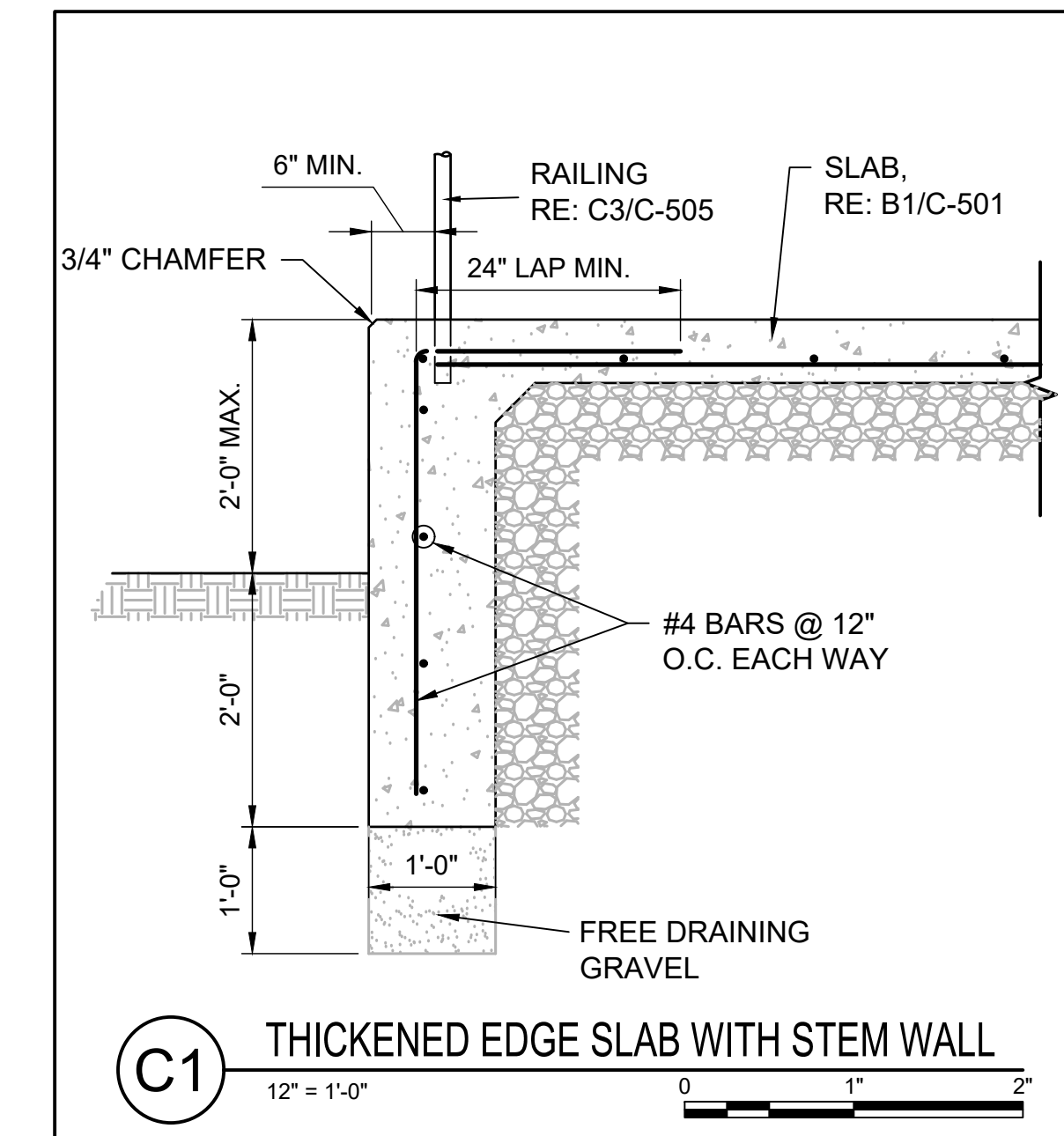
**A3** CRAWL TUNNEL SECTION  
1/2" = 1'-0"



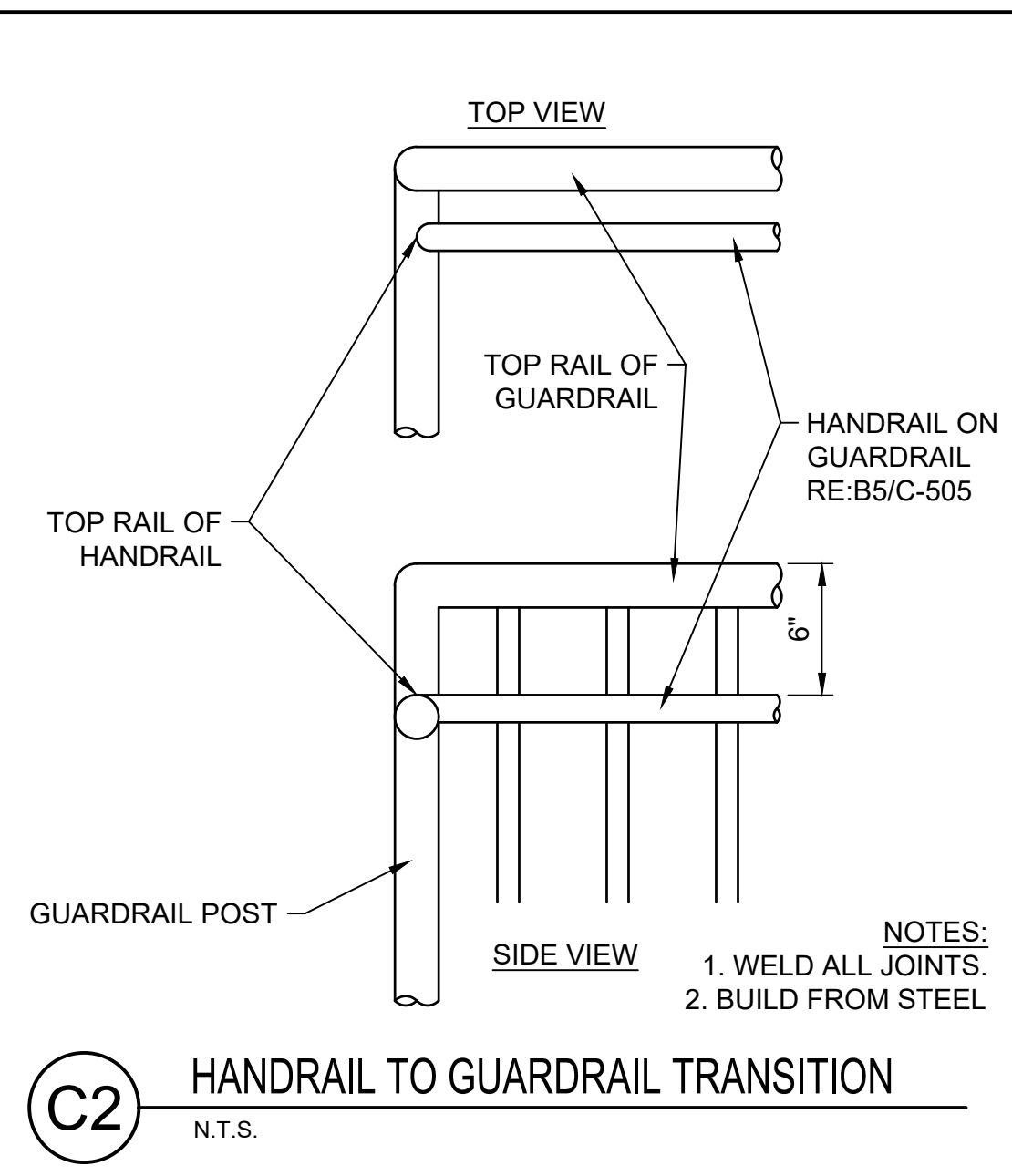
**A4** CROUCH TUNNEL SECTION  
1/2" = 1'-0"

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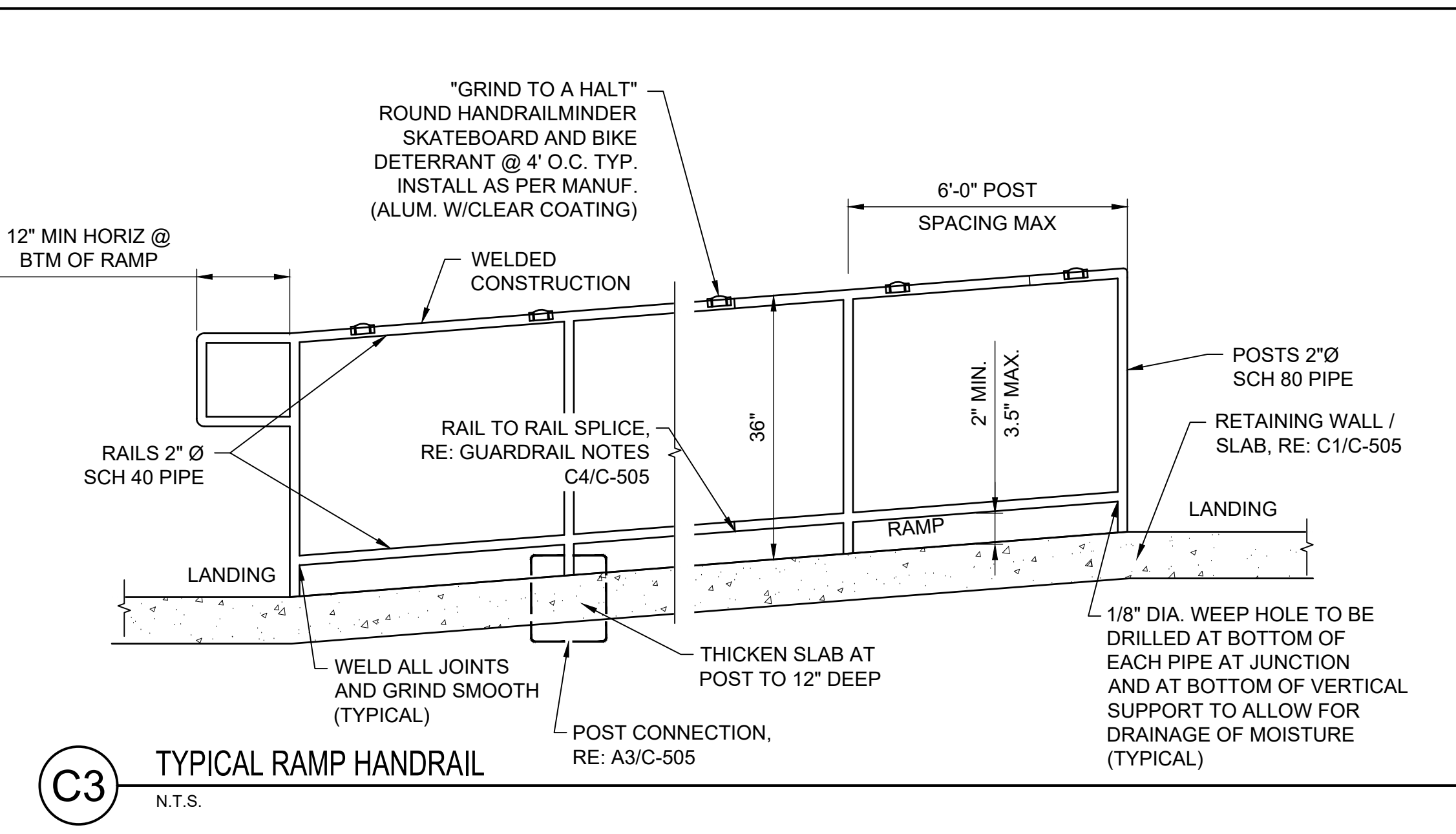




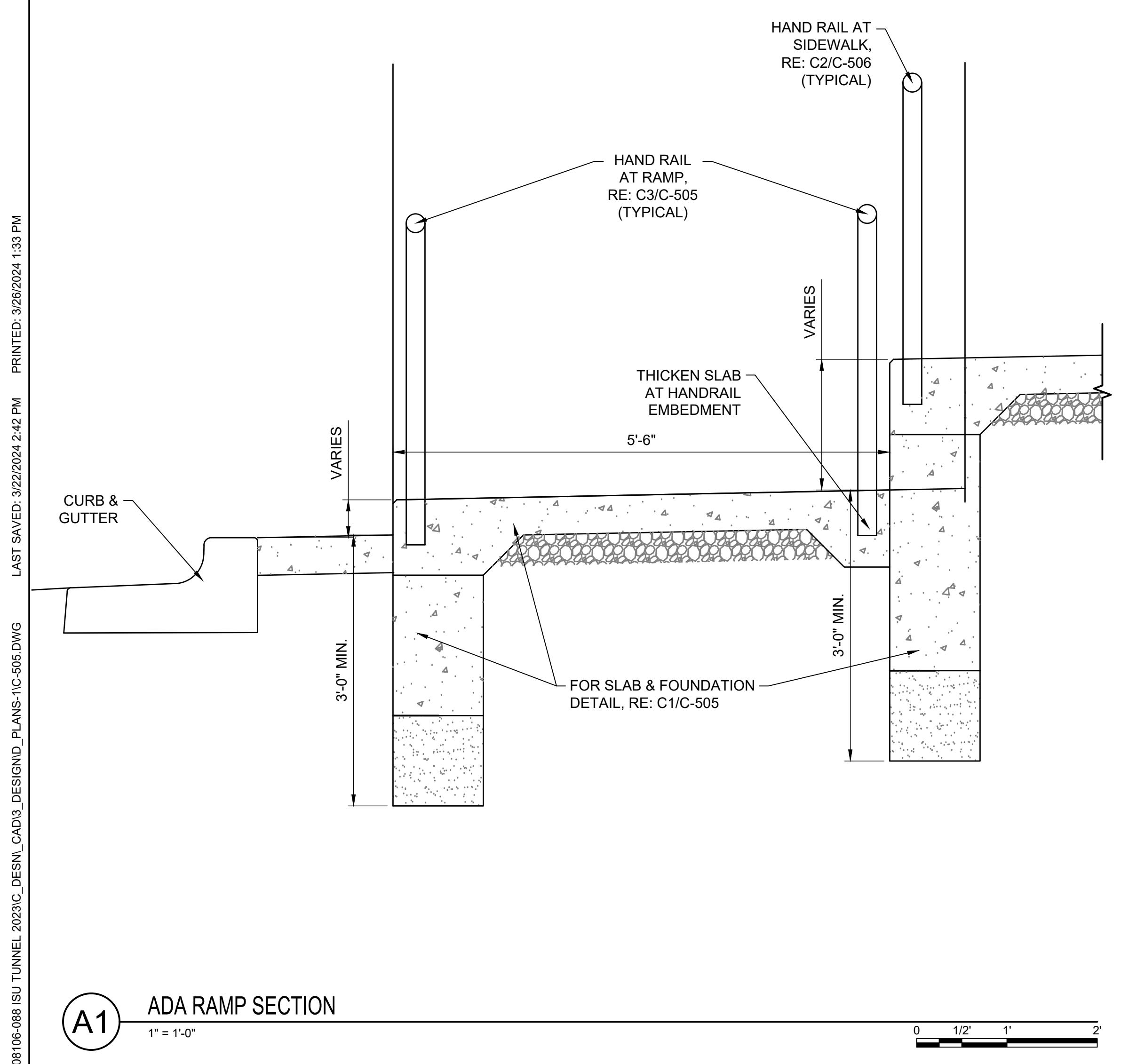
**C1** THICKENED EDGE SLAB WITH STEM WALL  
12" = 1'-0"



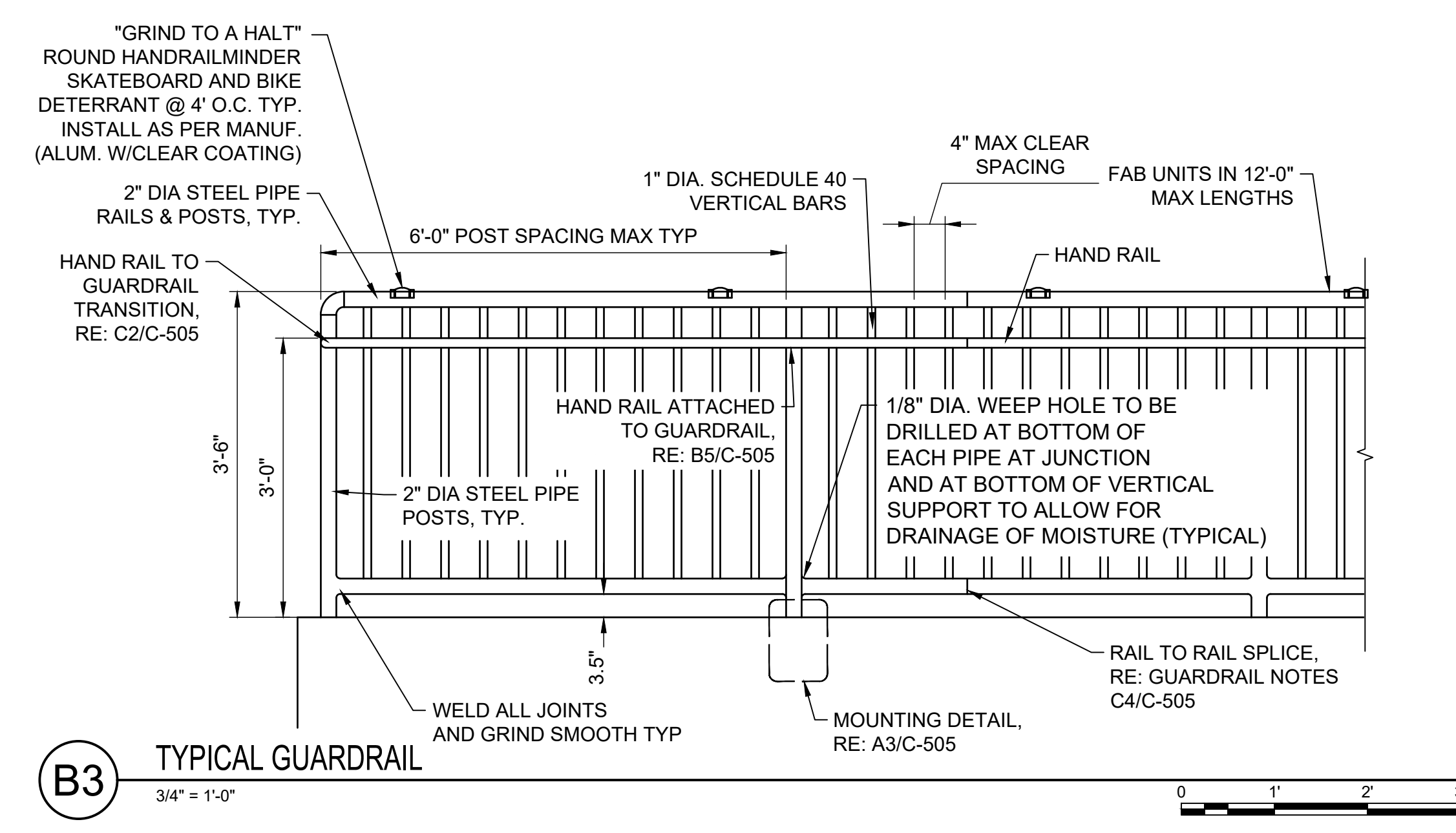
**C2** HANDRAIL TO GUARDRAIL TRANSITION  
N.T.S.



**C3** TYPICAL RAMP HANDRAIL  
N.T.S.

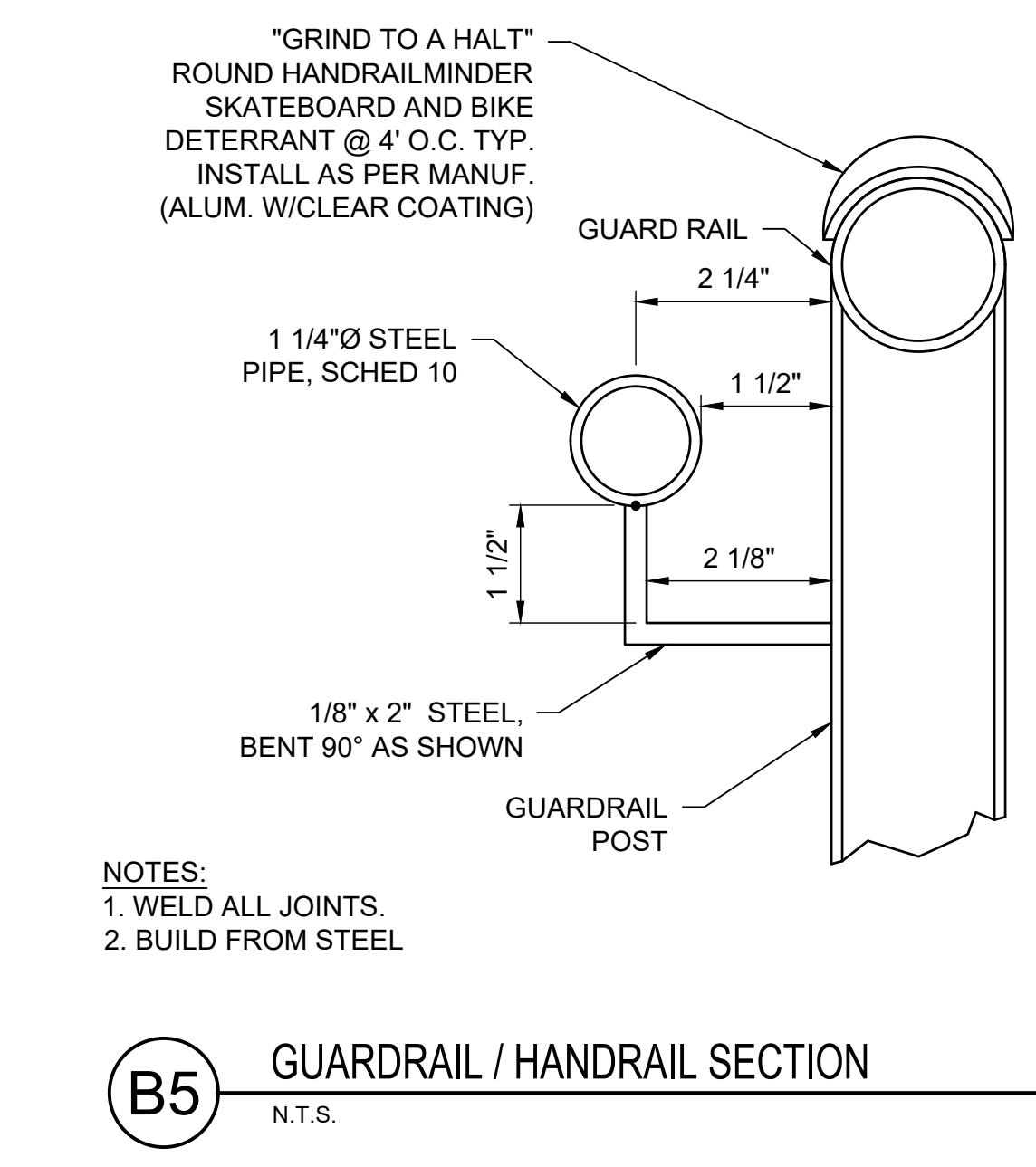


**A1** ADA RAMP SECTION  
1" = 1'-0"

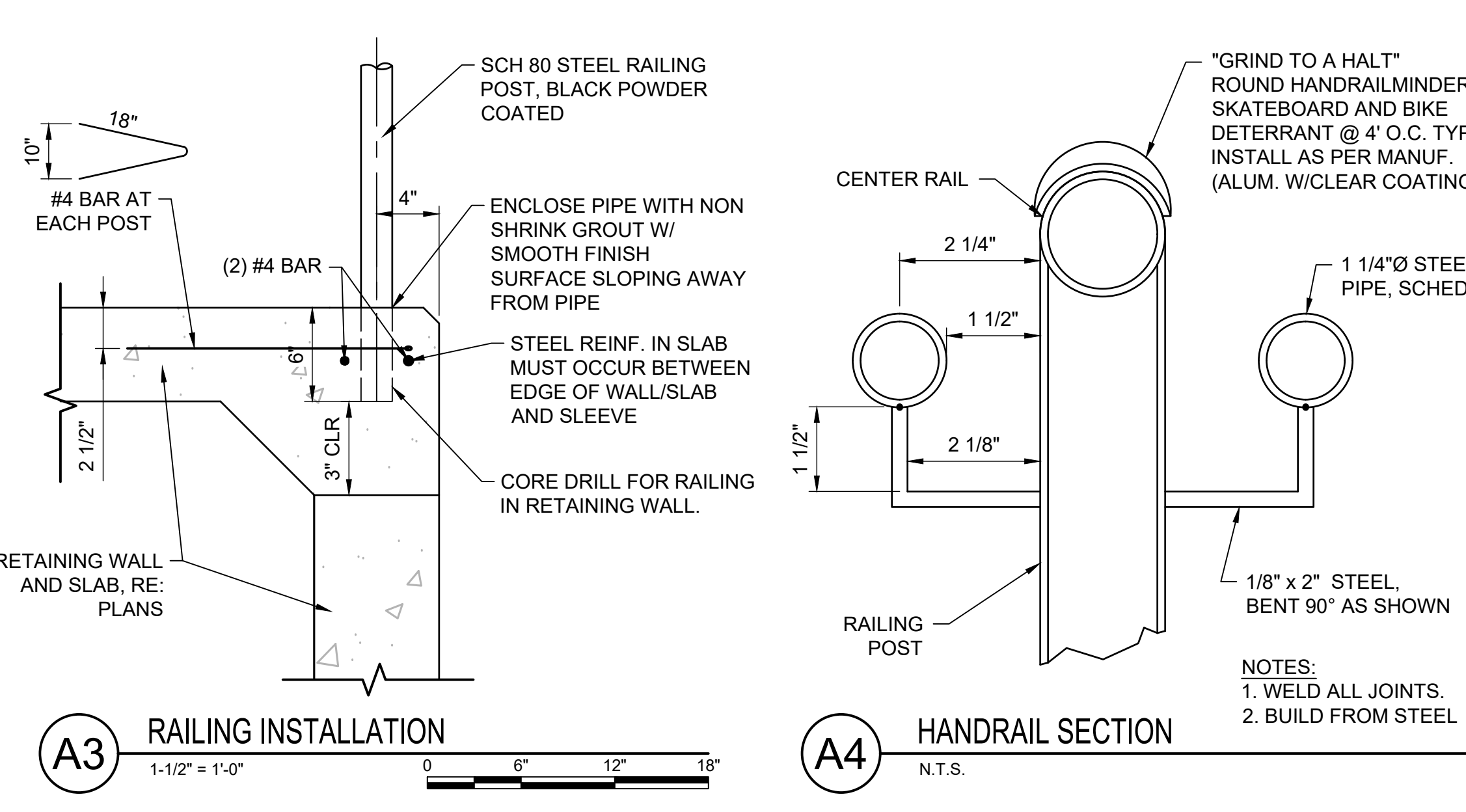


**B3** TYPICAL GUARDRAIL  
3/4" = 1'-0"

Xref: \01\_DETAILS\Structural\A341 GUARDRAIL HANDRAIL NOTES.dwg



**B5** GUARDRAIL / HANDRAIL SECTION  
N.T.S.



**A3** RAILING INSTALLATION  
1-1/2" = 1'-0"

**A4** HANDRAIL SECTION  
N.T.S.



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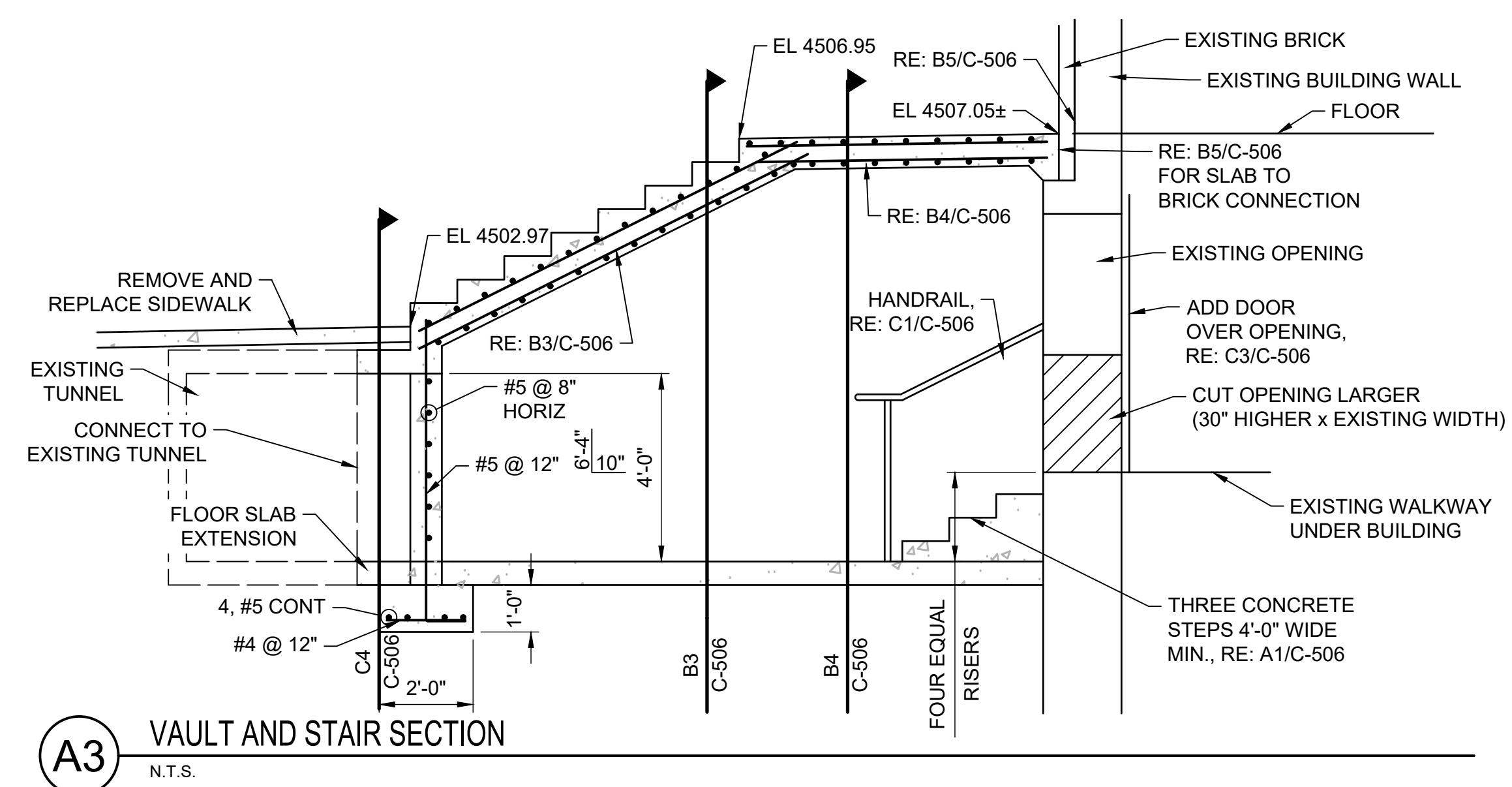
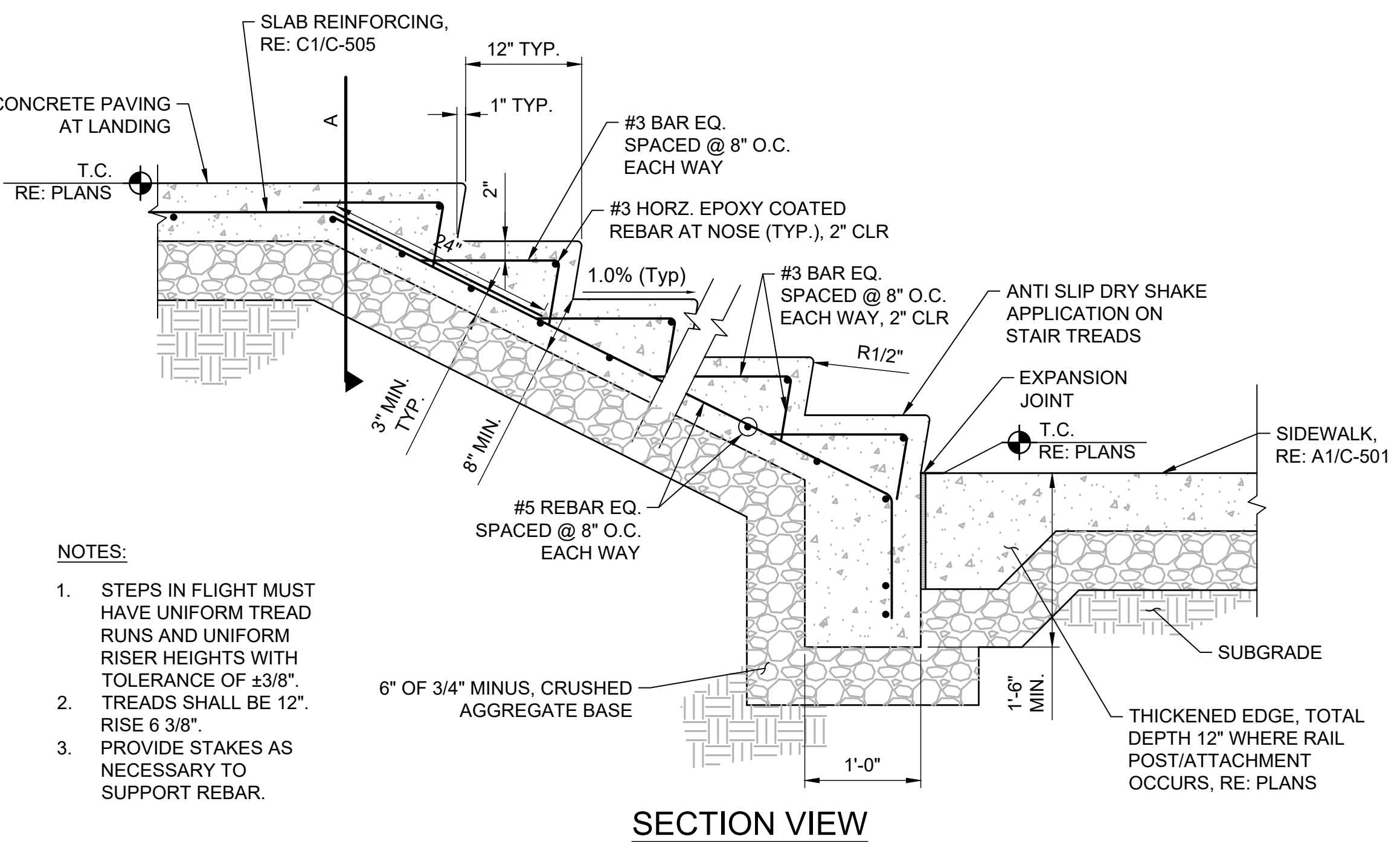
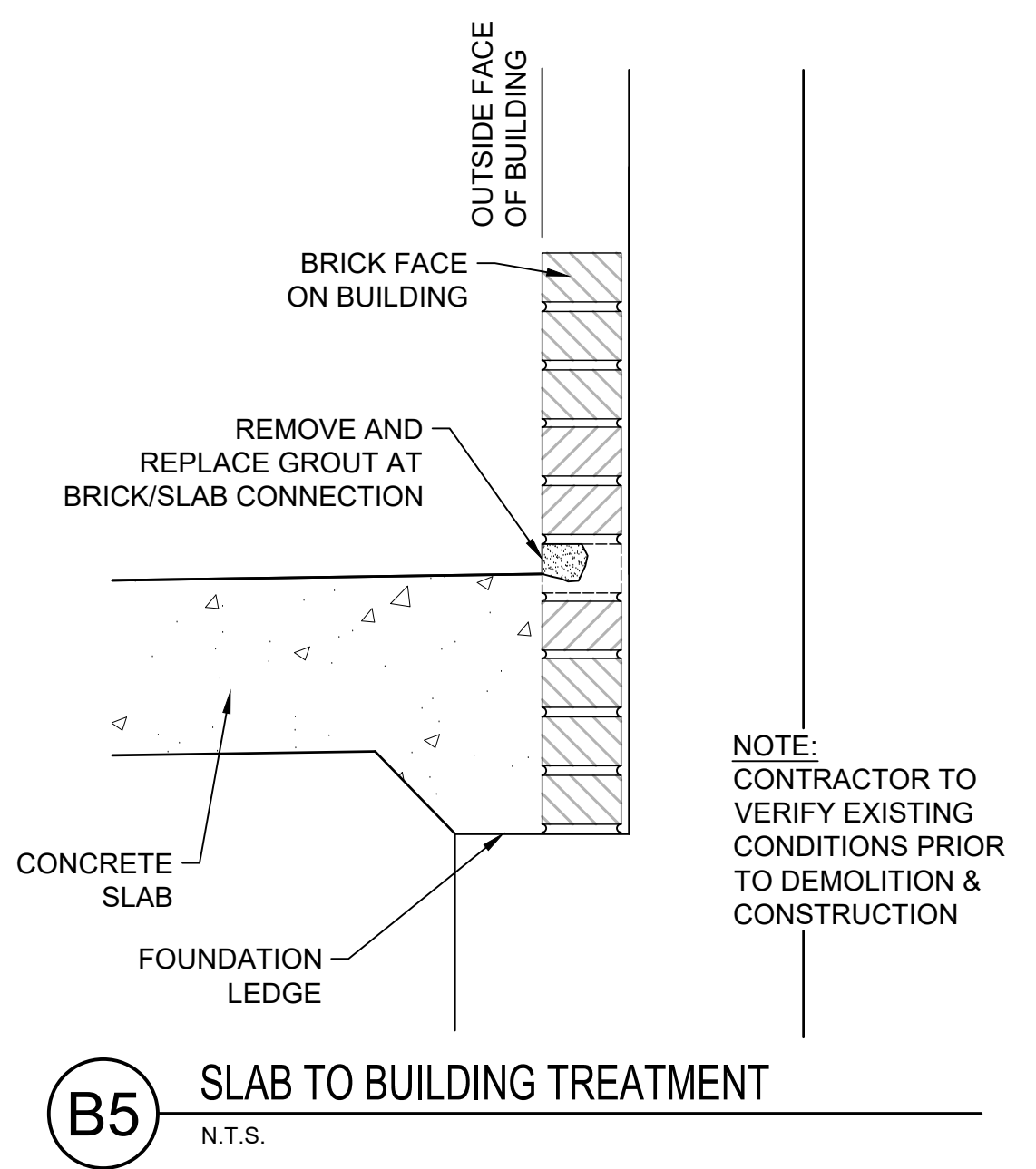
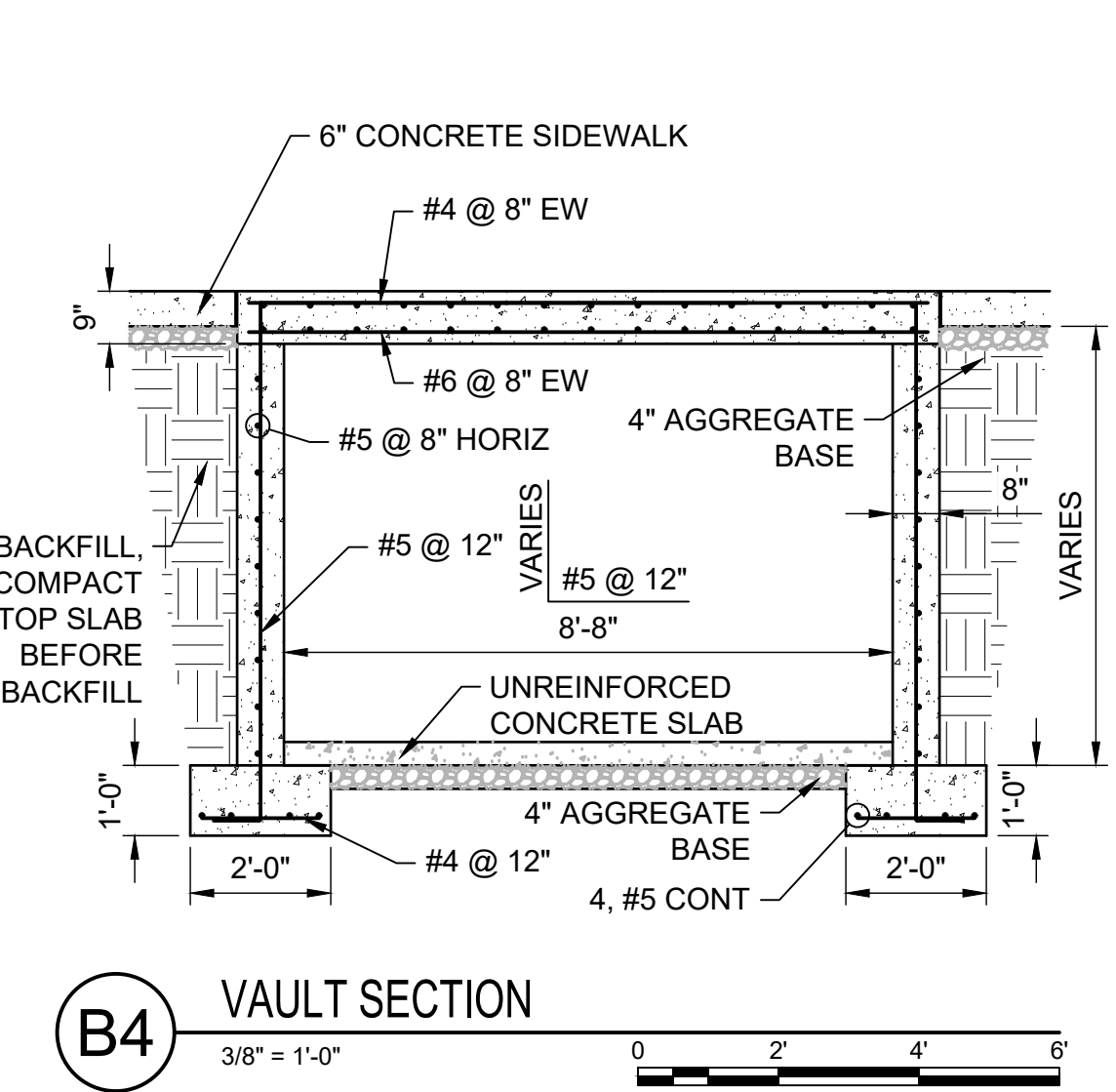
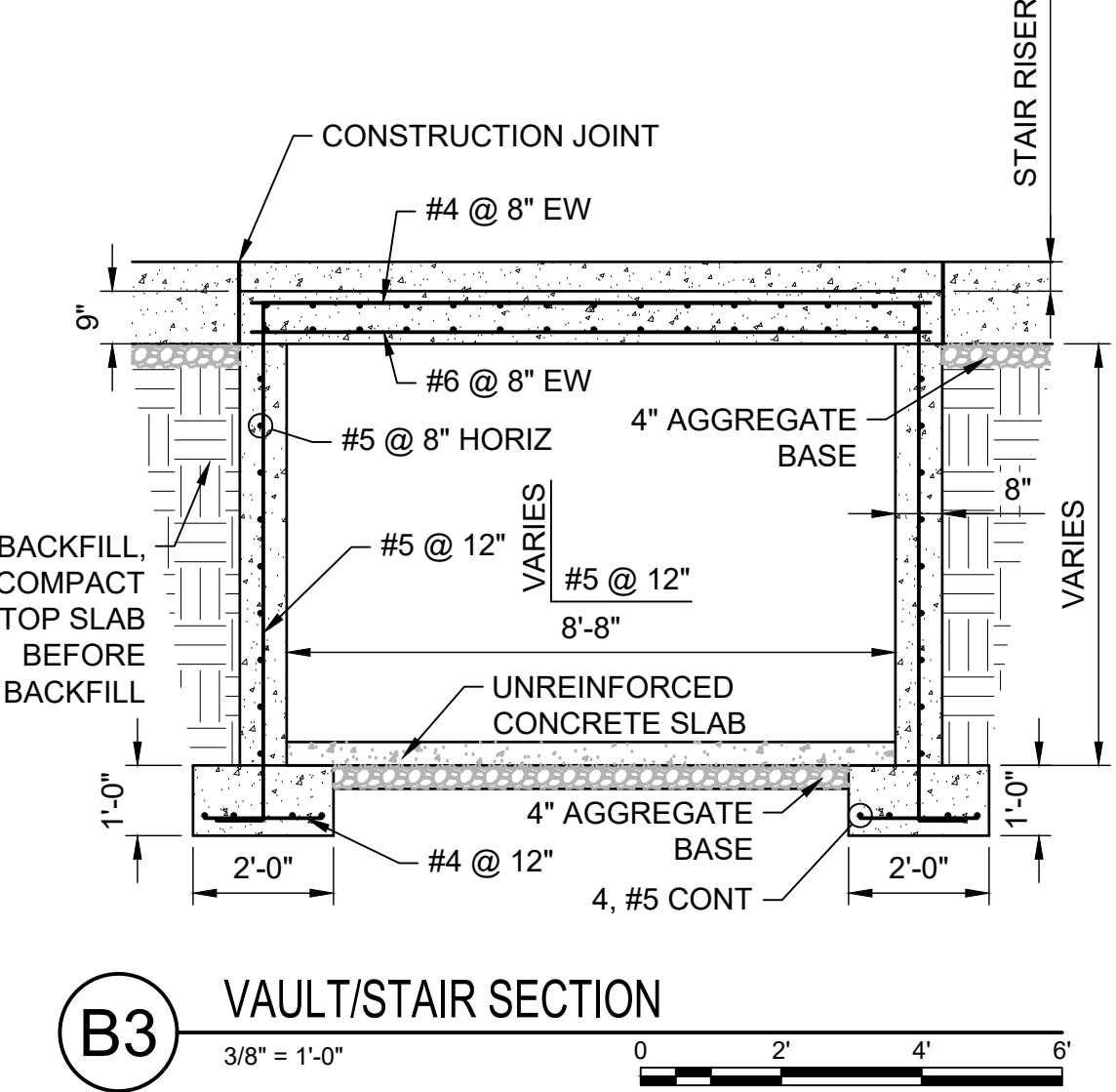
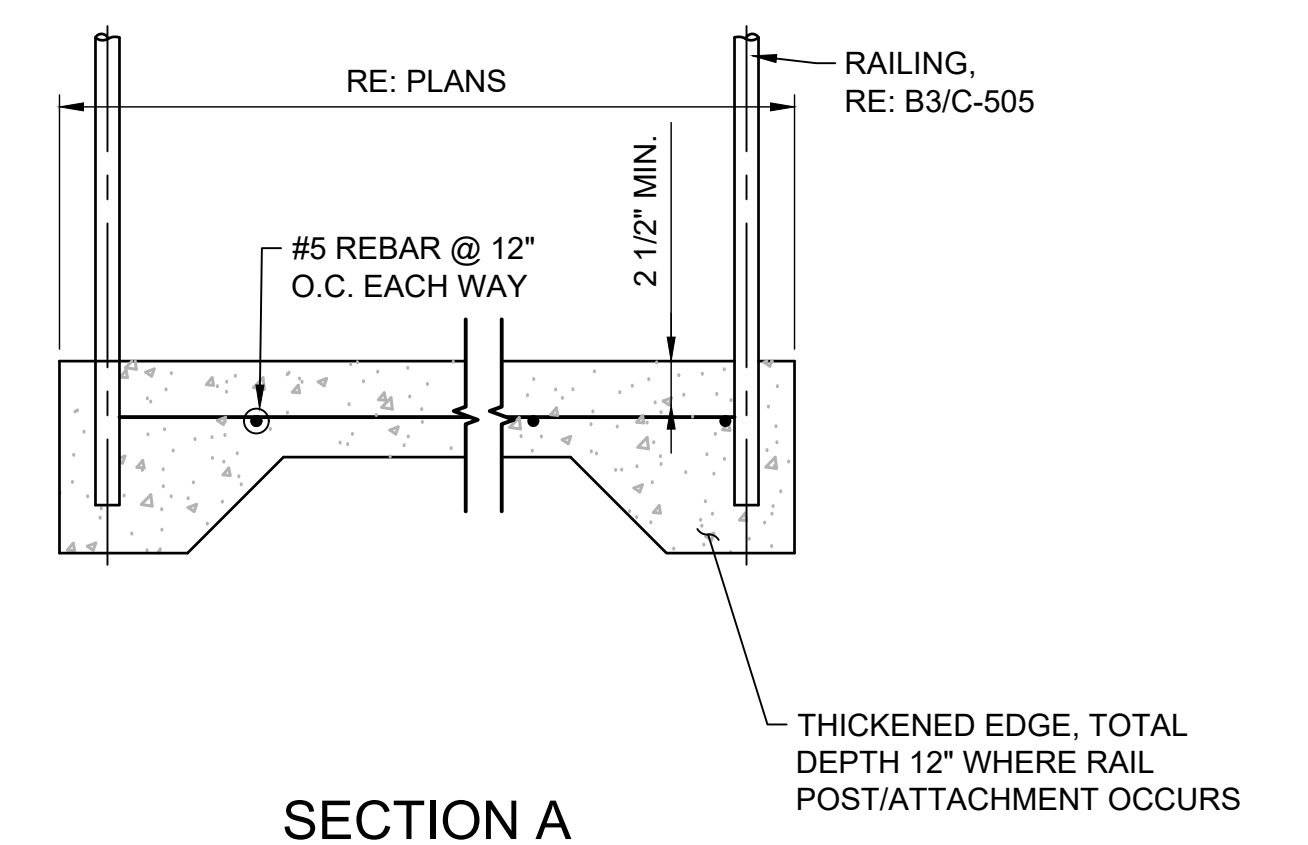
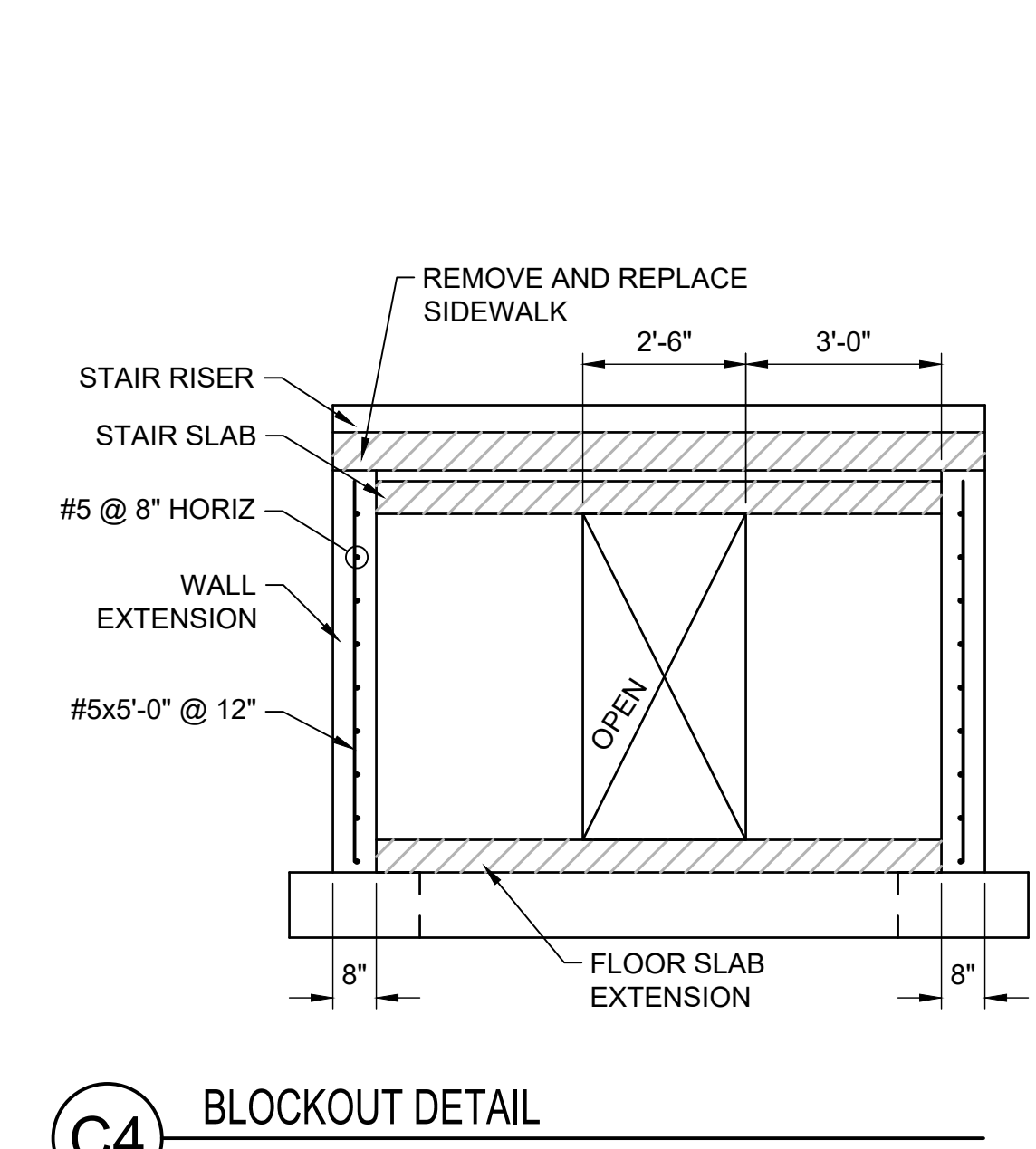
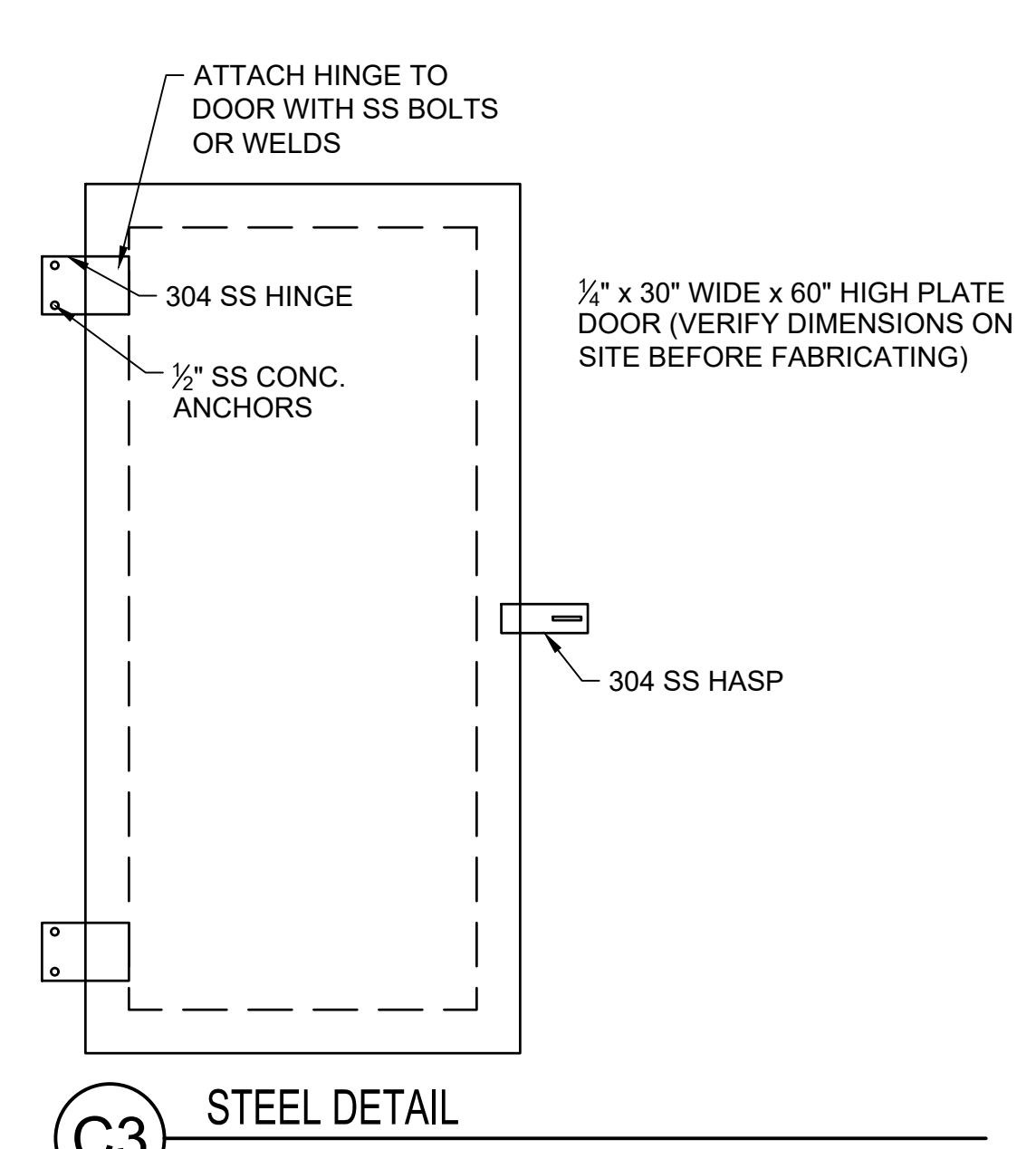
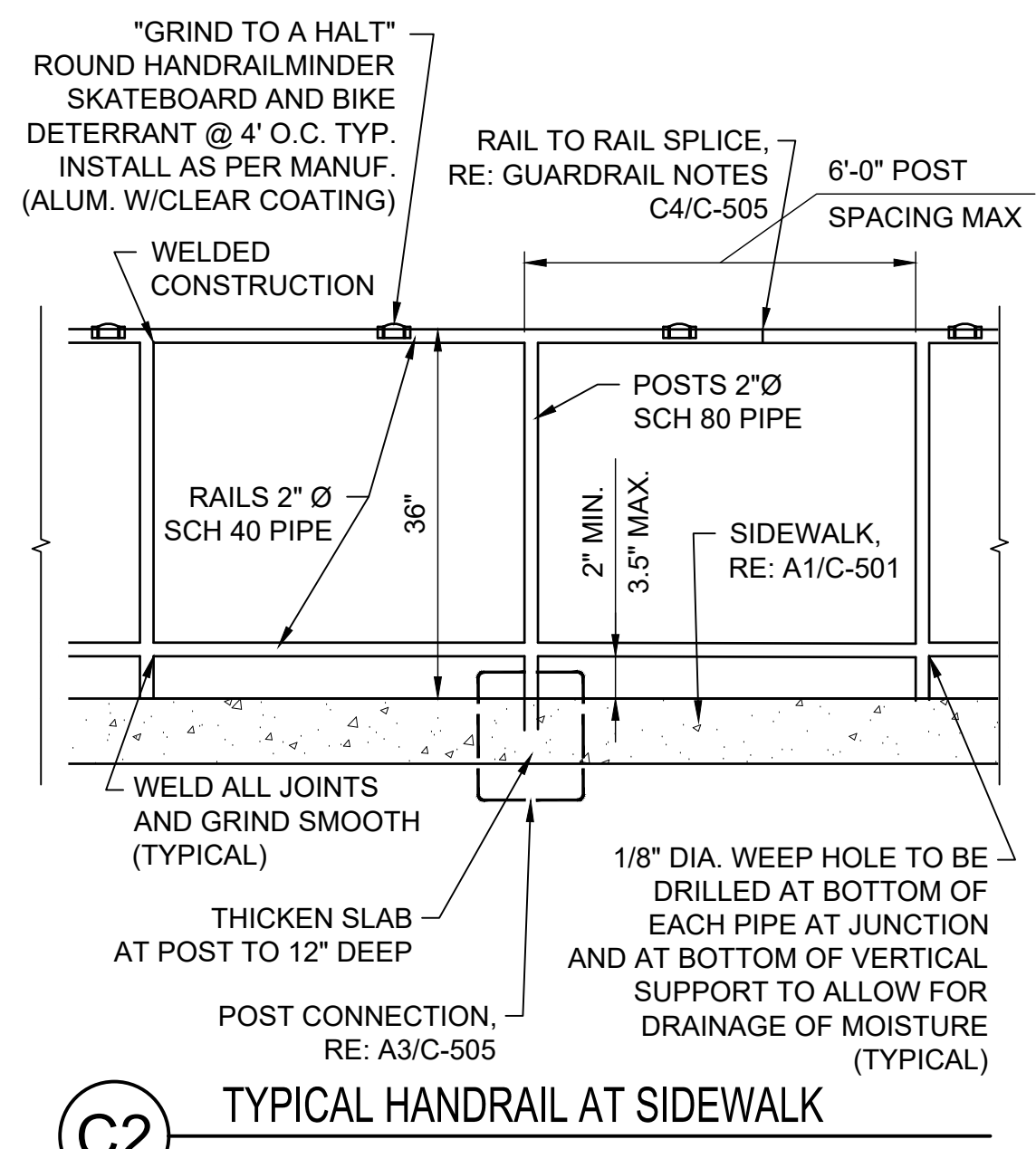
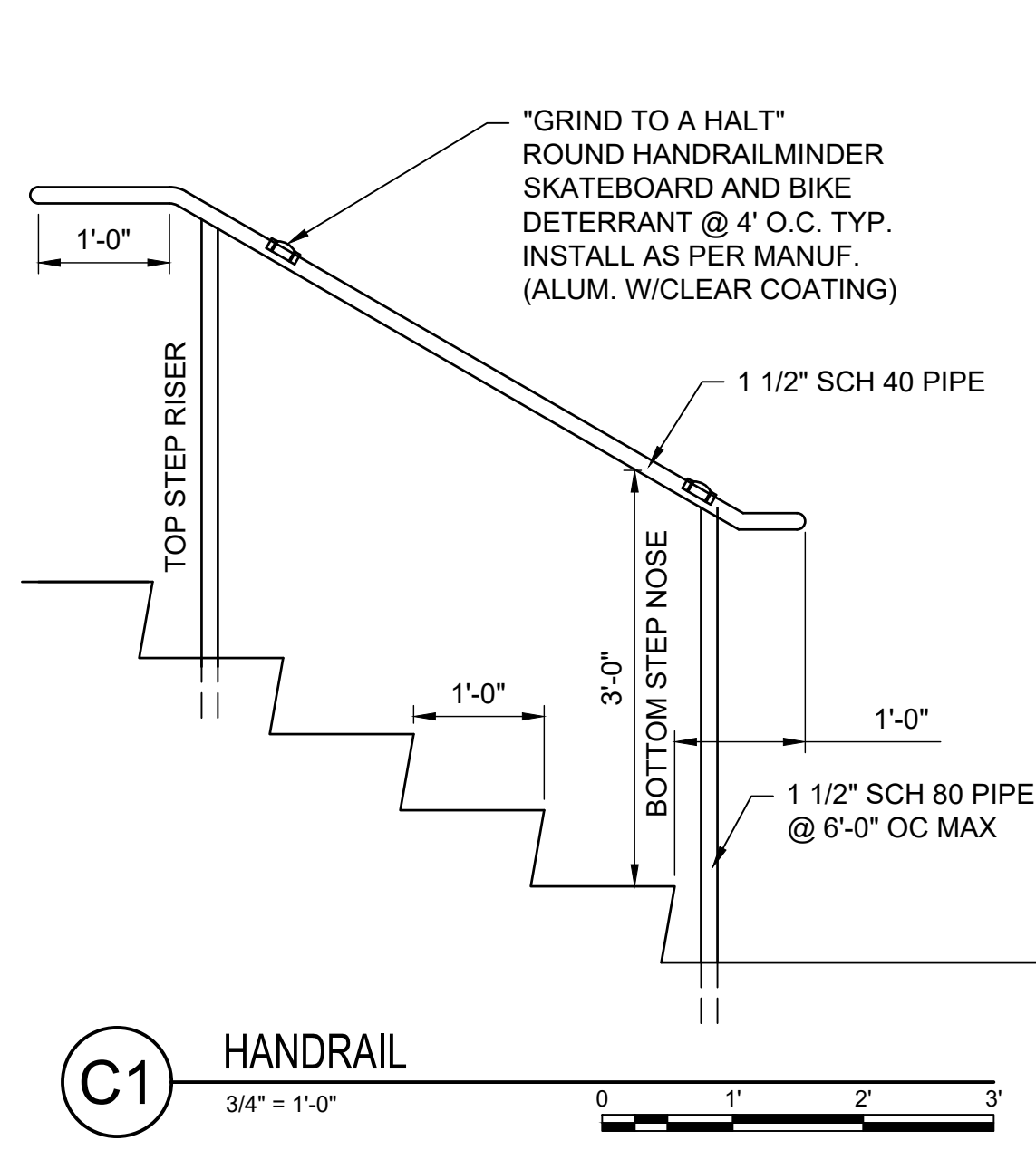
DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
SITE DETAILS

DRAWN: KJM CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-505

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- NOTES:
- STEPS IN FLIGHT MUST HAVE UNIFORM TREAD RUNS AND UNIFORM RISER HEIGHTS WITH TOLERANCE OF ±3/8". TREADS SHALL BE 12" RISE 6 3/8".
  - PROVIDE STAKES AS NECESSARY TO SUPPORT REBAR.

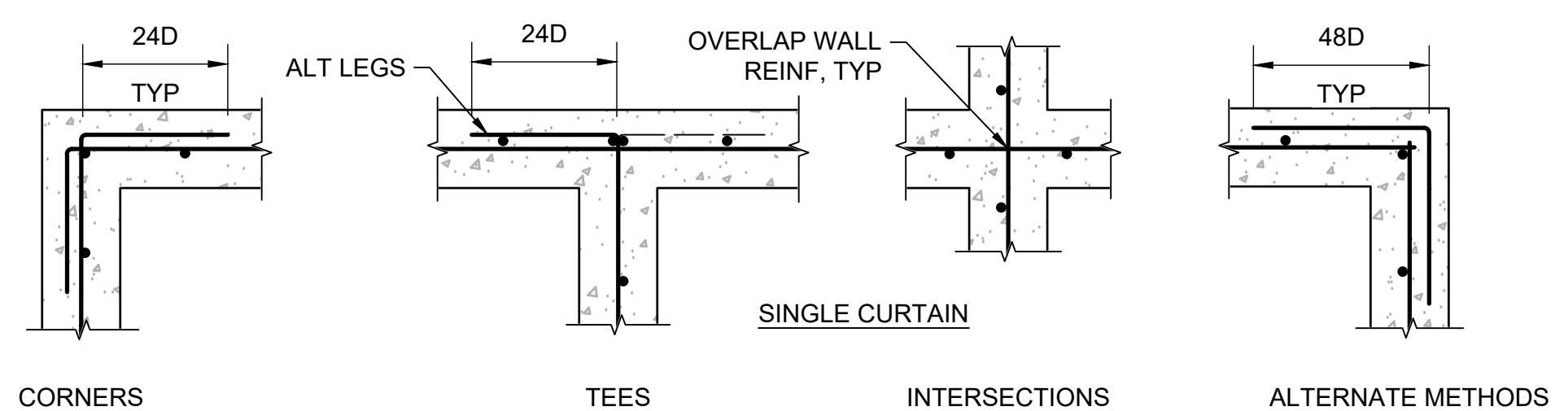
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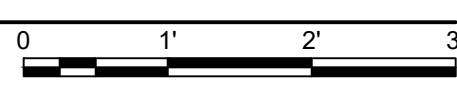
IDAHO STATE UNIVERSITY  
 SITE & TUNNEL SECTION DETAILS



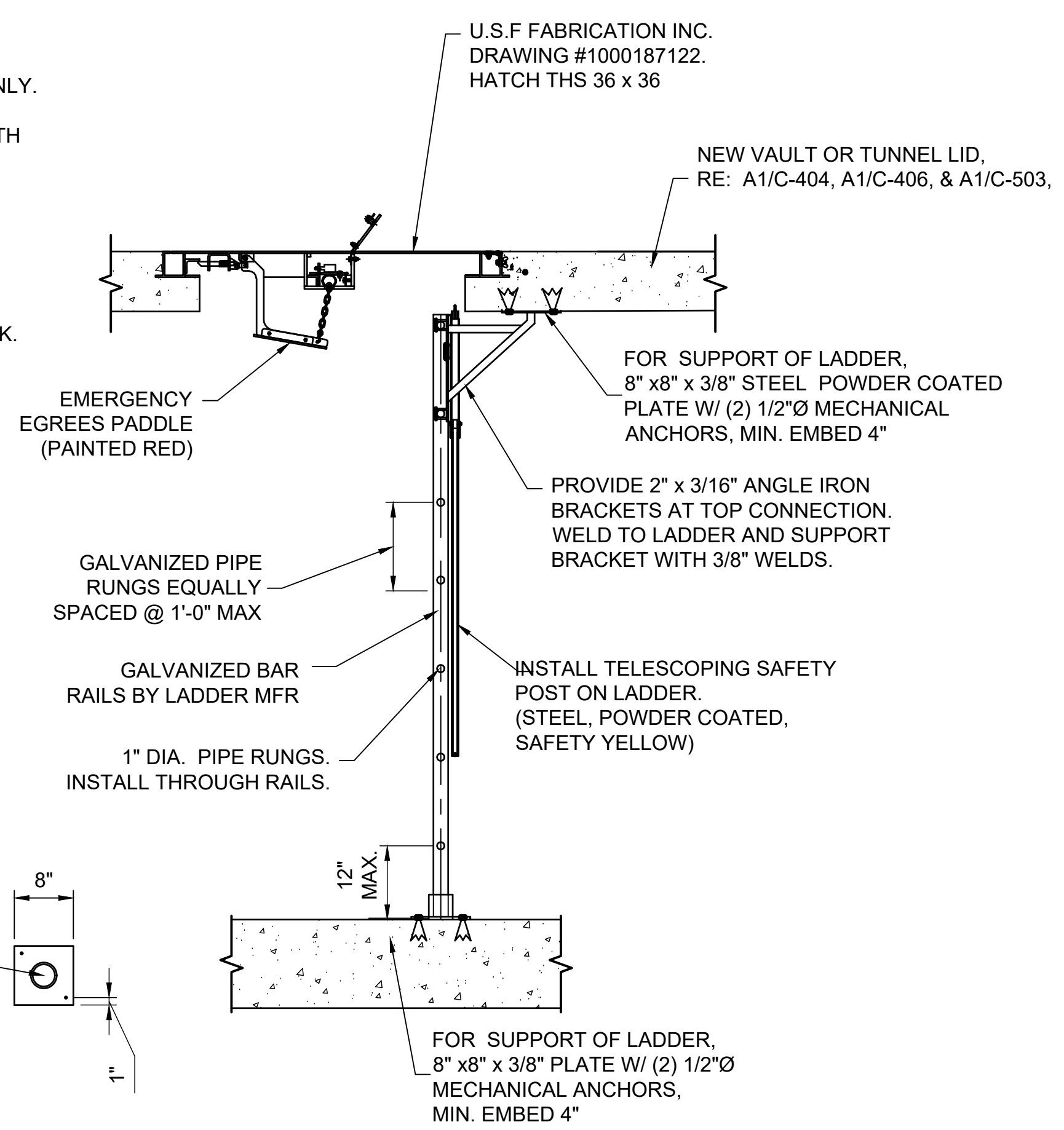


- NOTES:**
1. ALT METHOD MAY REPLACE HOOKED END WITH CORNER REINF AS SHOWN ON DETAIL
  2. 'D' IN DIMENSION INDICATES BAR DIAMETER

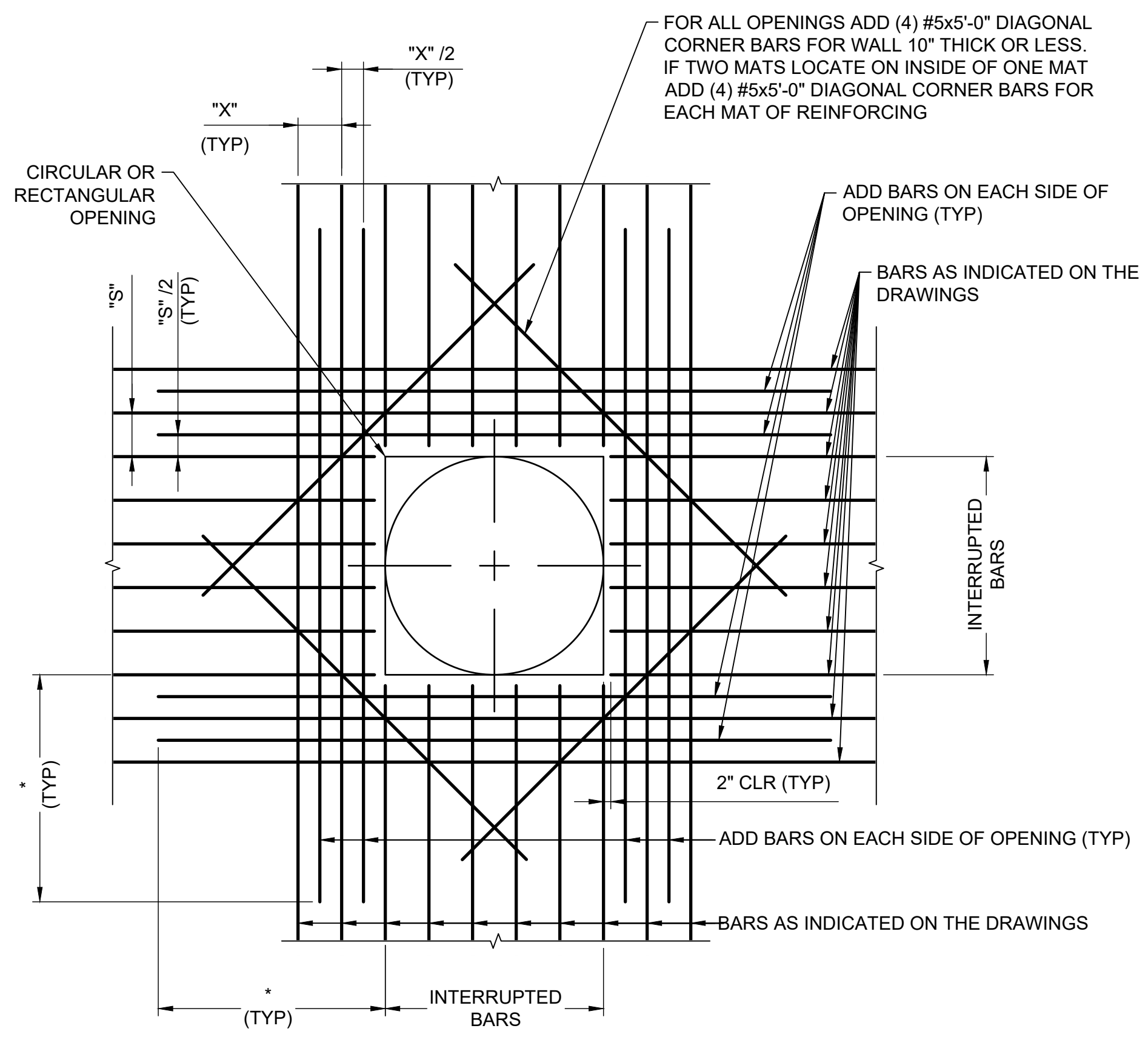
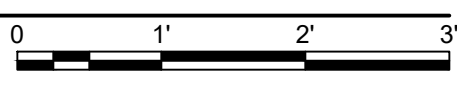
**C2 REINFORCING CONCRETE WALL INTERSECTIONS**  
3/4" = 1'-0"



- NOTES:**
- SELECTED FEATURES:**
1. SS GAS SHOCKS
  2. EMERGENCY EGRESS PADDLE
  3. HANDRAIL
  4. BITUMINOUS COATING
- FEATURES:**
1. MATERIAL: ALUMINUM
  2. FINISH: MILL
  3. LOADING: AASHTO H20 WHEEL LOADS. OCCASIONAL TRAFFIC ONLY.
  4. 316 SS NUTS & BOLTS.
  5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITUMINOUS COATING.
  6. 1 1/2 DIA. DRAIN COUPLING.
  7. ODOR REDUCTION GASKET/CUSHION.
  8. SS AUTOMATIC HOLD OPEN ARM W/RED VINYL GRIP.
  9. RECESSED STAPLE FOR PADLOCK.



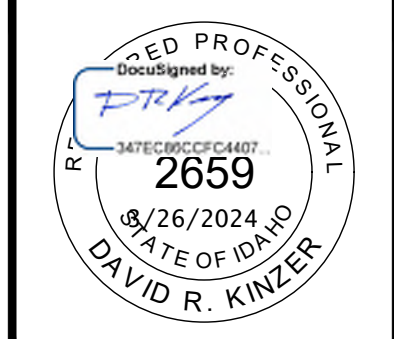
**A1 TUNNEL ACCESS HATCH AND LADDER DETAIL**  
3/4" = 1'-0"



- NOTES:**
1. AREA OF ADD BARS AT EACH EDGE OF OPENING IN EACH DIRECTION SHALL MATCH 1/2 THE CROSS SECTIONAL AREA OF THE INTERRUPTED BARS.
  2. PROVIDE STANDARD ACI HOOKS ON BARS IF STRAIGHT EXTENSION, PAST THE OPENING, CANNOT BE ACHIEVED.
  3. PLACE ADD BARS IN SAME PLANES AS INDICATED REINFORCING.
  4. PLACE #5 DIAGONAL BARS UNDER INDICATED REINFORCING.

\* DIMENSION EQUALS OPENING DIMENSION MEASURED PERPENDICULAR TO ADD BARS PLUS LAP SPLICE LENGTH.

**B4 ADDITIONAL REINFORCING AT OPENINGS IN CONCRETE SLABS OR WALLS**  
N.T.S.



NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
TUNNEL SECTION DETAILS

DRAWN: KJW CHECK: HGB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. C-507



# APPENDIX A

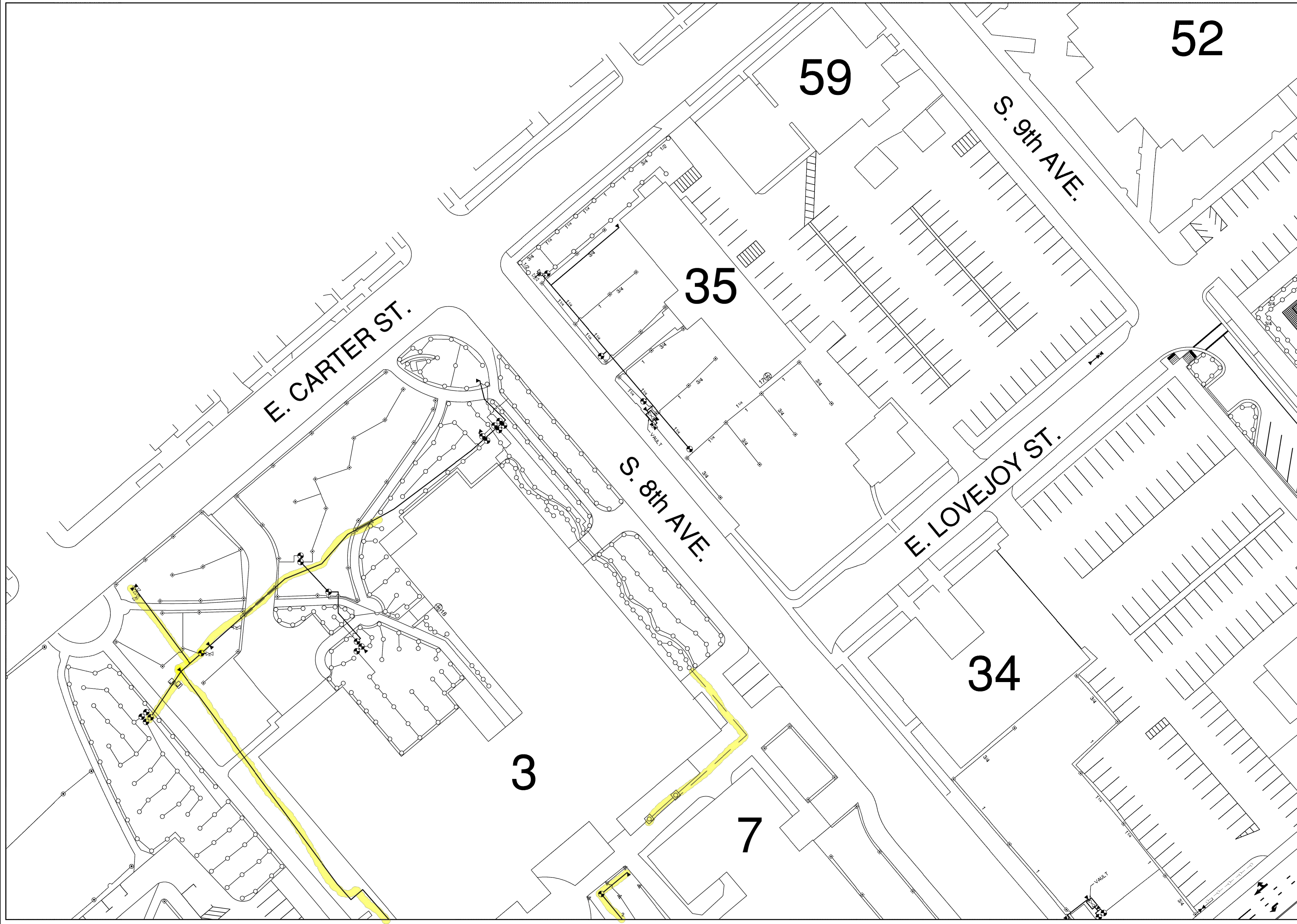
EXISTING IRRIGATION SYSTEM DRAWINGS PROVIDED BY IDAHO STATE UNIVERISTY



ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO



ADJOINING SHEETS

		9
14		12
	15	16

LEGEND

- ✕ MAIN SUPPLY VALVE
- ⊗ DOUBLE CHECK VALVE
- ⊖ ISOLATION VALVE
- ▲ QUICK COUPLING VALVE
- ⊕ ELECTRIC CONTROL VALVE
- ⊞ MANUAL CONTROL VALVE
- ⊟ DRAIN VALVE
- ⊠ LINE FLUSHING VALVE
- ⊡ 1/2" THREADED RISER
- ⊢ HOSE BIB
- ⊣ CONTROLLER
- ⊤ ELECTRICAL JUNCTION BOX
- ⊥ LARGE TURF ROTOR
- ⊦ MEDIUM TURF ROTOR
- ⊧ SMALL TURF ROTOR
- ⊨ SPRAY HEAD
- ⊩ STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- - - IRRIGATION CONTROL WIRE
- ⋯ DRIP IRRIGATION
- ⋯ SLEEVE
- ELECTRICAL LINE

GRAPHIC SCALE



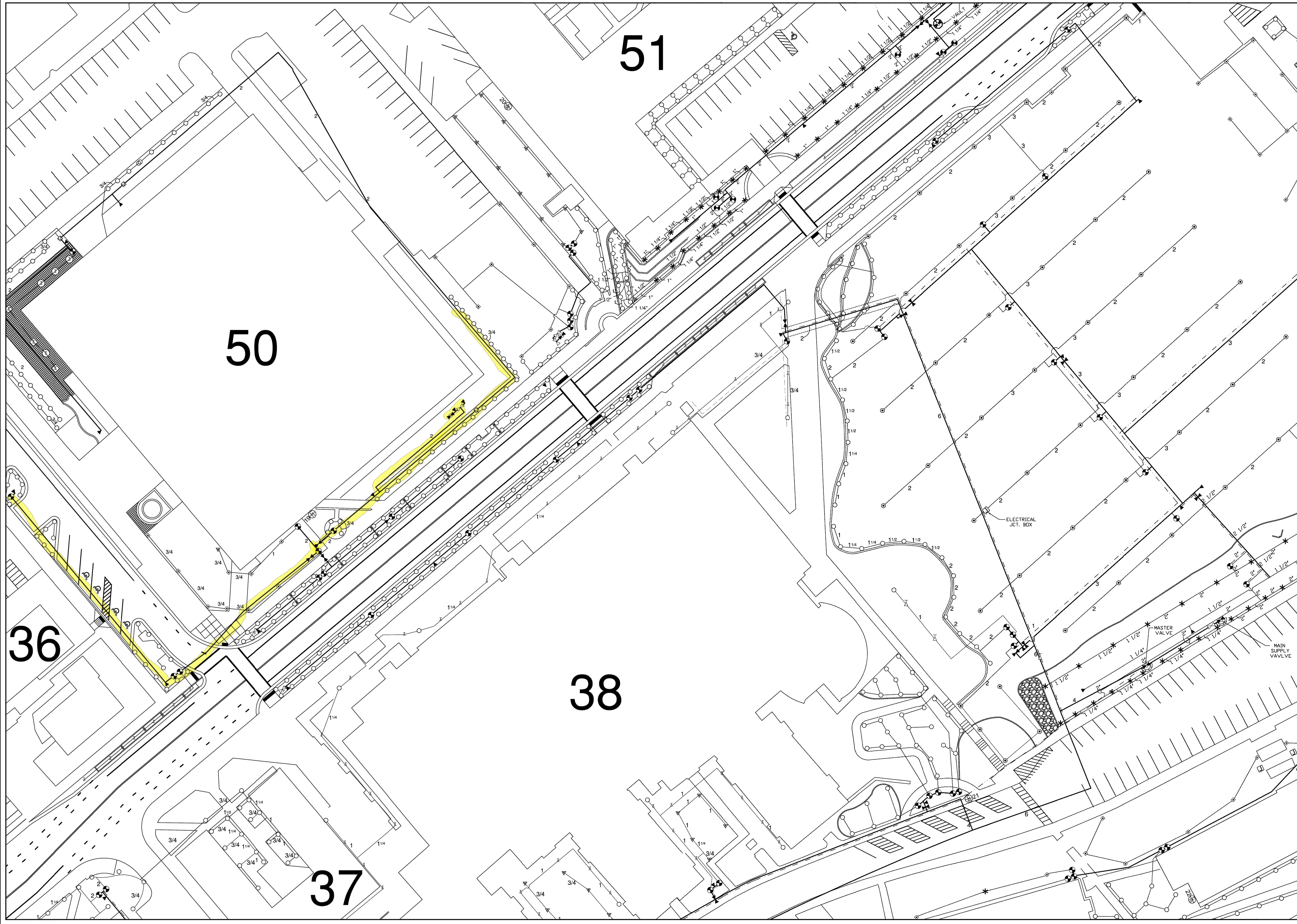
DRAWN BY:	KP
CHECKED BY:	DM
PROJECT DATE:	MARCH/2016
SHEET:	11 OF 43



ISU IRRIGATION MAP

MAIN CAMPUS

POCATELLO, IDAHO

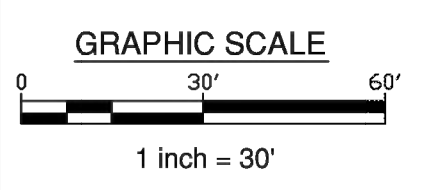


ADJOINING SHEETS

	9	10
11		13
15	16	17

LEGEND

- ☒ MAIN SUPPLY VALVE
- ☒ DOUBLE CHECK VALVE
- ☒ ISOLATION VALVE
- ☒ QUICK COUPLING VALVE
- ⊕ ELECTRIC CONTROL VALVE
- ☒ MANUAL CONTROL VALVE
- ☒ DRAIN VALVE
- ☒ LINE FLUSHING VALVE
- ☒ 1/2" THREADED RISER
- ☒ HOSE BIB
- ☒ CONTROLLER
- ☒ ELECTRICAL JUNCTION BOX
- ☒ LARGE TURF ROTOR
- ☒ MEDIUM TURF ROTOR
- ☒ SMALL TURF ROTOR
- SPRAY HEAD
- ☒ STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- IRRIGATION CONTROL WIRE
- DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE



DRAWN BY:	KP
CHECKED BY:	DM
PROJECT DATE:	MARCH/2016
SHEET:	12 OF 43

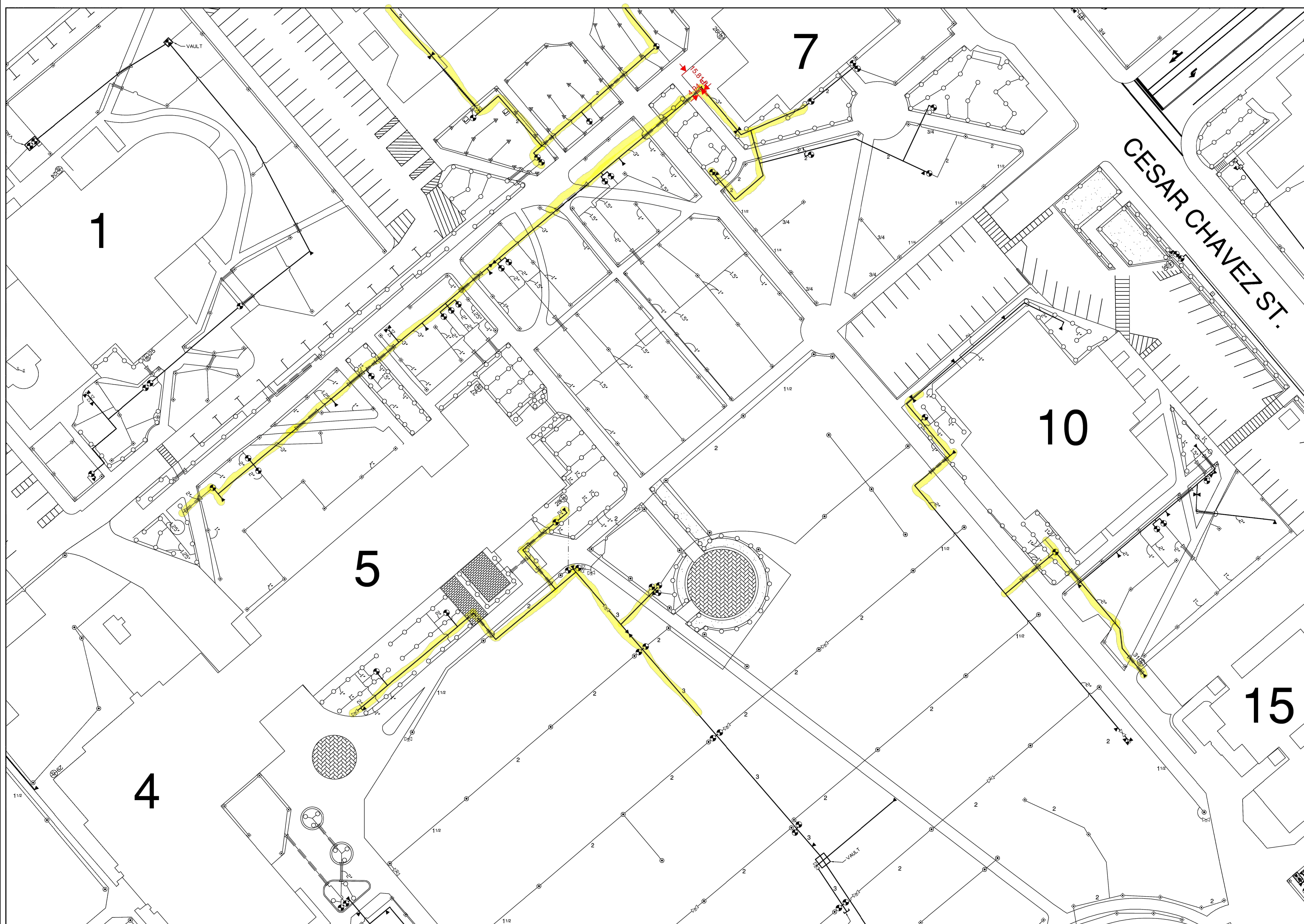


# ISU IRRIGATION MAP

## MAIN CAMPUS

POCATELLO, IDAHO

### CESAR CHAVEZ ST.



#### ADJOINING SHEETS

14	11	12
19		16
	20	21

#### LEGEND

- ☒ MAIN SUPPLY VALVE
- ☒ DOUBLE CHECK VALVE
- ☒ ISOLATION VALVE
- ☒ QUICK COUPLING VALVE
- ⊕ ELECTRIC CONTROL VALVE
- ⊕ MANUAL CONTROL VALVE
- ☒ DRAIN VALVE
- ☒ LINE FLUSHING VALVE
- ☒ 1/2" THREADED RISER
- ☒ HOSE BIB
- ☒ CONTROLLER
- ☒ ELECTRICAL JUNCTION BOX
- ⊕ LARGE TURF ROTOR
- ⊕ MEDIUM TURF ROTOR
- ⊕ SMALL TURF ROTOR
- SPRAY HEAD
- \* STREAM ROTATOR
- MAIN IRRIGATION LINE
- IRRIGATION PIPE
- - - IRRIGATION CONTROL WIRE
- - - DRIP IRRIGATION
- SLEEVE
- ELECTRICAL LINE

#### GRAPHIC SCALE



DRAWN BY:	KP
CHECKED BY:	DM
PROJECT DATE:	MARCH/2016
SHEET:	15 OF 43



TUBEAXIAL VENTILATION AIR FAN												
SYMBOL	AIR FLOW CFM	TOTAL STATIC PRESSURE	BHP	FAN MOTOR			FAN RPM	DRIVE	TWIN CITY MODEL	DUTY	REMARKS	
				NOM. HP	VOLTS	HERTZ						PHASE
VF-1	6,000	0.75	1.2	2	208	60	3	1750	DIRECT	TD24E428	BREWSTER VAULT	FAN SHALL BE REVERSIBLE WITH EQUAL AIR FLOW BOTH DIRECTIONS. PROVIDE INLET SCREEN.

SELECTION BASED ON TWIN CITY

VARIABLE FREQUENCY DRIVE									
SYMBOL	DUTY	DRIVE HP	MOTOR HP	ELECTRICAL			ABB MODEL	LOCATION	REMARKS
				VOLTS	HERTZ	PHASE			
VFD-1	VF-1	3	2	208	60	3	ACH580	BREWSTER VAULT	REVERSIBLE TYPE VFD WITH NEMA 3R ENCLOSURE

SELECTION BASED ON MITSUBISHI  
SEE SPECIFICATION SECTION 230513

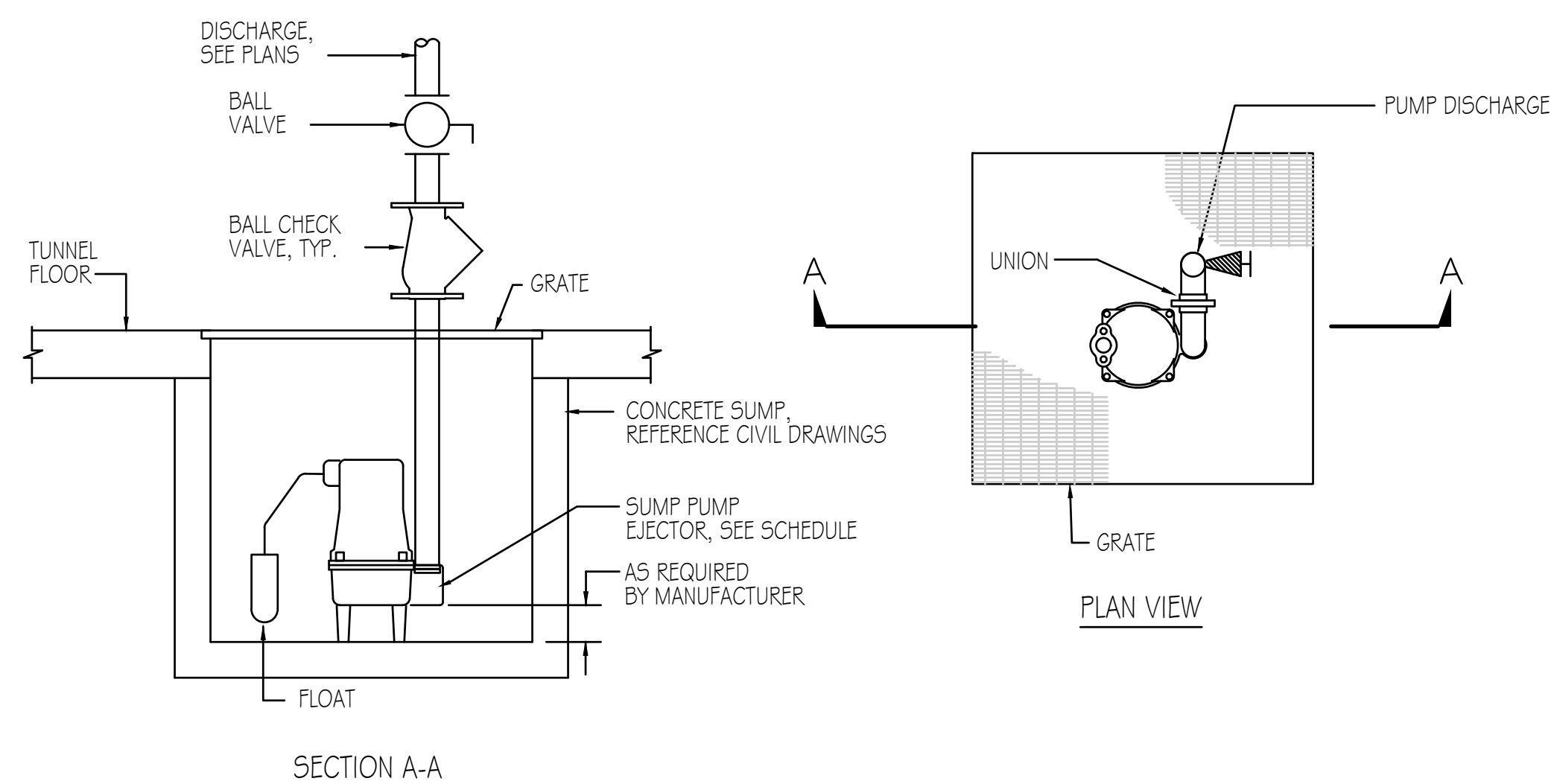
① THE DRIVES SHALL MATCH THE MOTORS PROVIDED WITH THE FANS. THIS CONTRACTOR SHALL HAVE THE FULL RESPONSIBILITY FOR THE DRIVES, INCLUDING THE INSTALLATION AND COORDINATING THE EFFORTS OF THE SUPPLIER, ELECTRICAL CONTRACTOR FOR POWER WIRING, AND CONTROL WORK BY ATC CONTRACTOR.

SUMP PUMP - SIMPLEX - SUBMERSIBLE TYPE										
SYMBOL	FEET HEAD	GPM	ELECTRICAL			HP	RPM	PENTAIR MODEL	PUMP TYPE	REMARKS
			VOLTS	HERTZ	PHASE					
SP-1	25	40	120	60	1	1/2	1725	SHEP 45	SUBMERSIBLE	SEE SUMP DETAIL I/M-001

SELECTION BASED ON ZOELLER

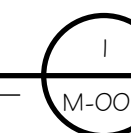
STEAM PRESSURE REGULATING VALVE											
SYMBOL	CAPACITY LBS/HR	INLET PRESSURE PSIG	OUTLET PRESSURE PSIG	CV	MAX SOUND LEVEL dBA	PRESSURE (SPRING) RANGE	SPENCE MODEL	SIZE	DUTY	LOCATION	REMARKS
SPRV-1	3154	51	5	31	85	1-10 PSIG	TYPE ED SERIES	2"	ENGINEERING BUILDING	TUNNEL	PROVIDE WITH PILOT OPERATOR

SELECTION BASED ON ARI ARMATUREN  
SEE SPECIFICATION SECTION 232200



**SUBMERSIBLE SUMP PUMP DETAIL**

SCALE: NONE



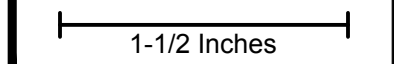
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

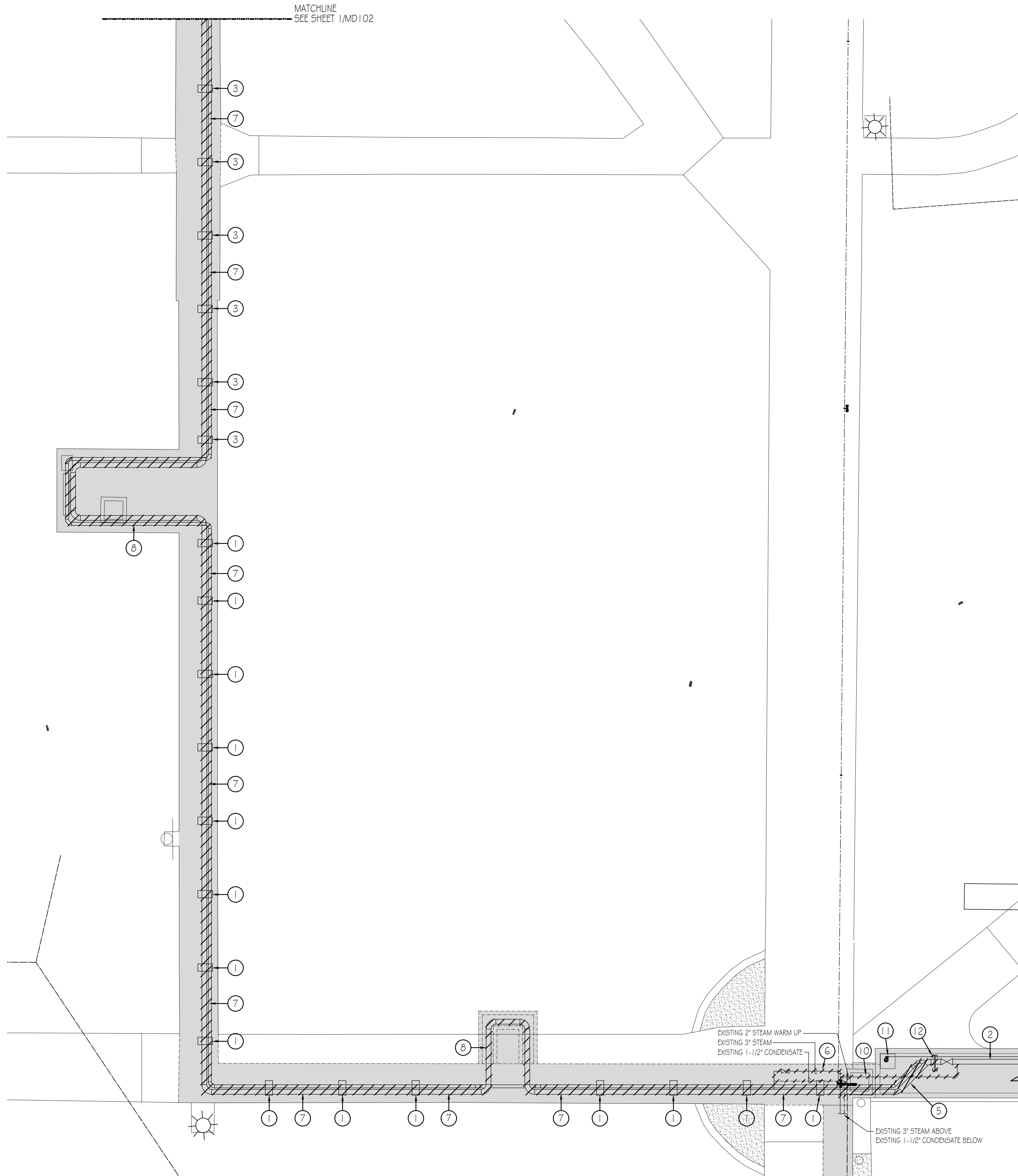
IDAHO STATE UNIVERSITY  
MECHANICAL EQUIPMENT SCHEDULES

DRAWN:GWM CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-001





MATCHLINE  
SEE SHEET 1/MD102



**DEMOLITION NOTES**

- ① REMOVE EXISTING CONCRETE SUPPORT WITH ROLLER.
- ② EXISTING STEAM AND CONDENSATE PIPING TO REMAIN.
- ③ REMOVE EXISTING WALL MOUNTED PIPE SUPPORTS.
- ④ REMOVE EXISTING VALVE IN CONDENSATE LINE.
- ⑤ REMOVE EXISTING STEAM AND CONDENSATE PIPING BACK TO THE EXISTING PIPING THAT WAS INSTALLED IN 2023. FIELD VERIFY EXACT LOCATION.
- ⑥ REMOVE EXISTING 3" STEAM PIPE AND 1-1/2" CONDENSATE PIPE BACK TO BRANCH TUNNEL.
- ⑦ REMOVE EXISTING 8" STEAM AND 5" CONDENSATE PIPING AS SHOWN.
- ⑧ REMOVE EXISTING STEAM EXPANSION LOOP INCLUDING ALL PIPE SUPPORTS.
- ⑨ REMOVE EXISTING 8" VALVE IN STEAM PIPING.
- ⑩ REMOVE A PORTION OF THE EXISTING 2" STEAM WARM UP PIPE IN PREPARATION FOR CONNECTION TO NEW PIPE.
- ⑪ EXISTING SUMP PUMP TO REMAIN. PROTECT DURING CONSTRUCTION.
- ⑫ REMOVE EXISTING PIPE GUIDE.

**GENERAL NOTES**

A. THERE ARE VARIOUS TYPES OF PIPE SUPPORTS. CONTRACTOR TO VERIFY TYPE AND REMOVE.



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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
STEAM PIPING IN TUNNEL  
DEMOLITION PLAN

DRAWN:GWM CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. MD101

**EXISTING STEAM / CONDENSATE PIPING  
IN TUNNEL DEMOLITION PLAN**

SCALE: 1/8" = 1'-0"



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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
STEAM PIPING IN TUNNEL  
DEMOLITION PLAN

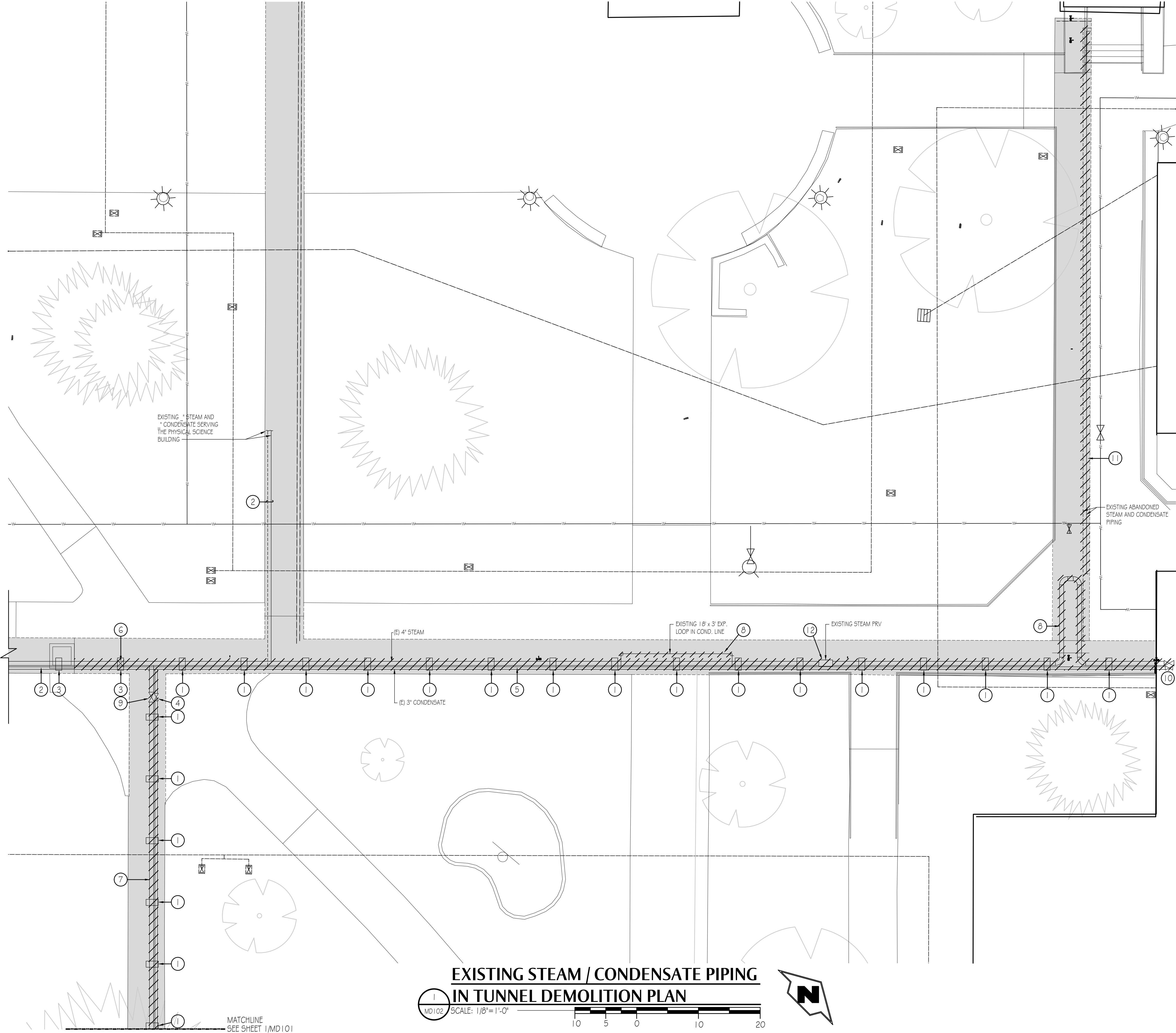
DRAWN:GWM CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. MD102

**DEMOLITION NOTES**

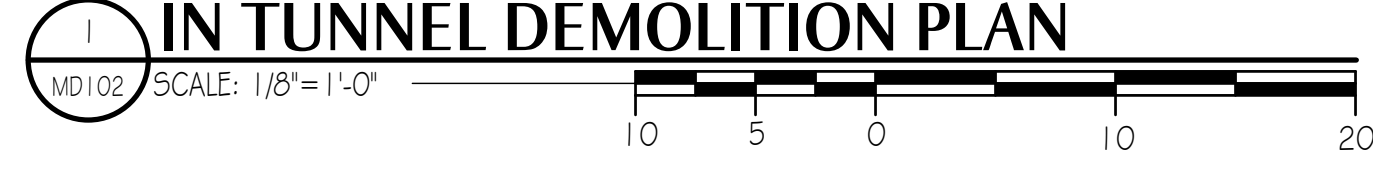
- 1 REMOVE EXISTING WALL PIPE SUPPORT.
- 2 EXISTING STEAM AND CONDENSATE PIPING TO REMAIN.
- 3 EXISTING CONCRETE SUPPORT WITH ROLLER TO REMAIN.
- 4 REMOVE EXISTING VALVE IN CONDENSATE LINE.
- 5 REMOVE EXISTING 4" STEAM AND 3" CONDENSATE PIPING AS SHOWN.
- 6 VERIFY EXACT LOCATION OF EXISTING ANCHOR AND REMOVE ANCHOR.
- 7 REMOVE EXISTING 8" STEAM AND 5" CONDENSATE PIPING AS SHOWN.
- 8 REMOVE EXISTING STEAM EXPANSION LOOP.
- 9 REMOVE EXISTING 8" VALVE IN STEAM PIPING.
- 10 REMOVE EXISTING PIPING THROUGH THE WALL INTO THE BUILDING TO THE ISOLATION VALVES. REMOVE THE EXISTING ISOLATION VALVES.
- 11 REMOVE ABANDONED STEAM CONDENSATE PIPING.
- 12 REMOVE EXISTING STEAM PRV. STORE AND PROTECT. REINSTALL AS SHOWN ON REMODEL PLAN.

**GENERAL NOTES**

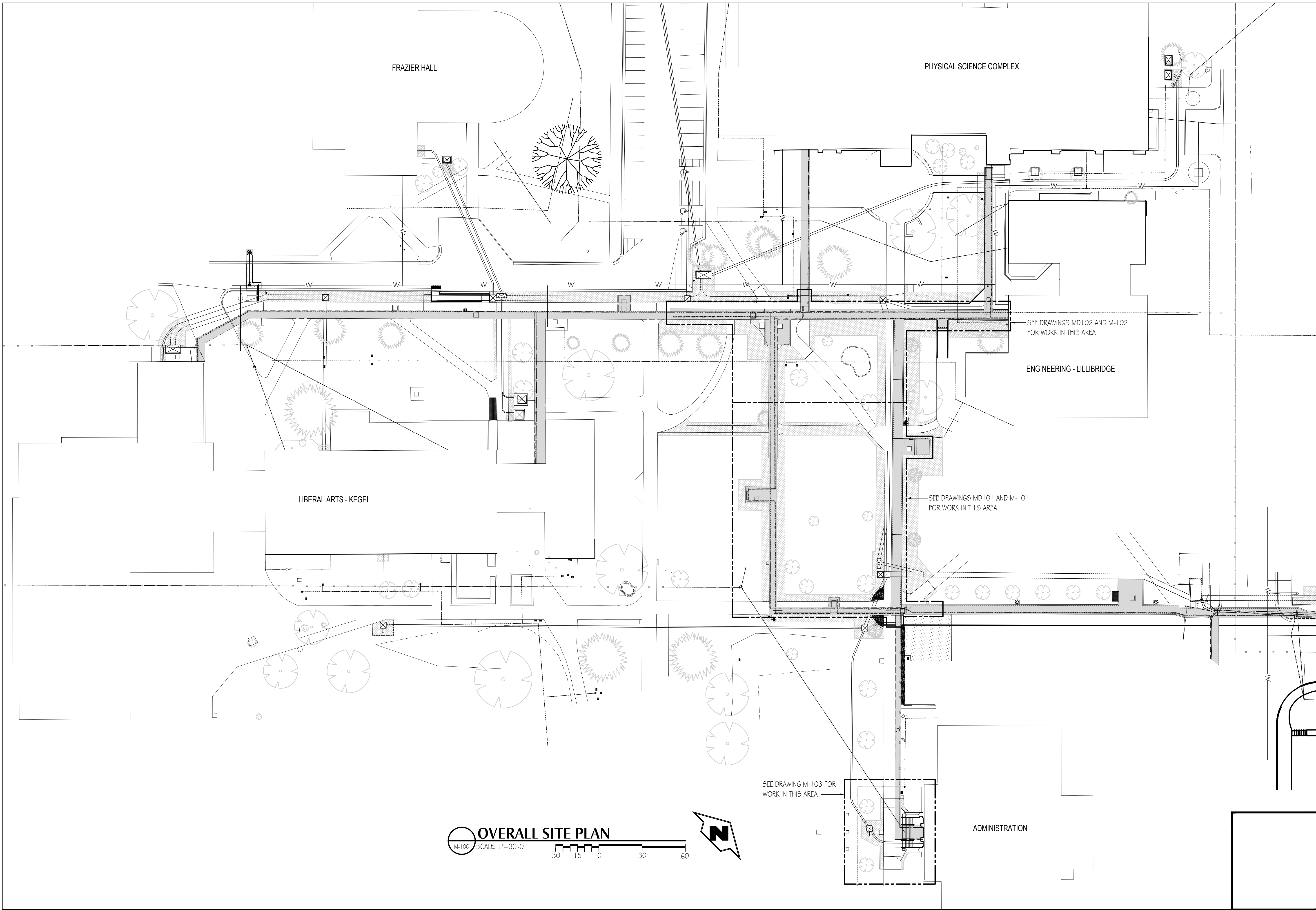
A. THERE ARE VARIOUS TYPES OF PIPE SUPPORTS. CONTRACTOR TO VERIFY TYPE AND REMOVE.



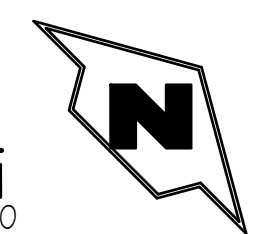
**EXISTING STEAM / CONDENSATE PIPING  
IN TUNNEL DEMOLITION PLAN**







**OVERALL SITE PLAN**  
 M-100 SCALE: 1"=30'-0"  
 30 15 0 30 60



NO.	REVISIONS	DATE

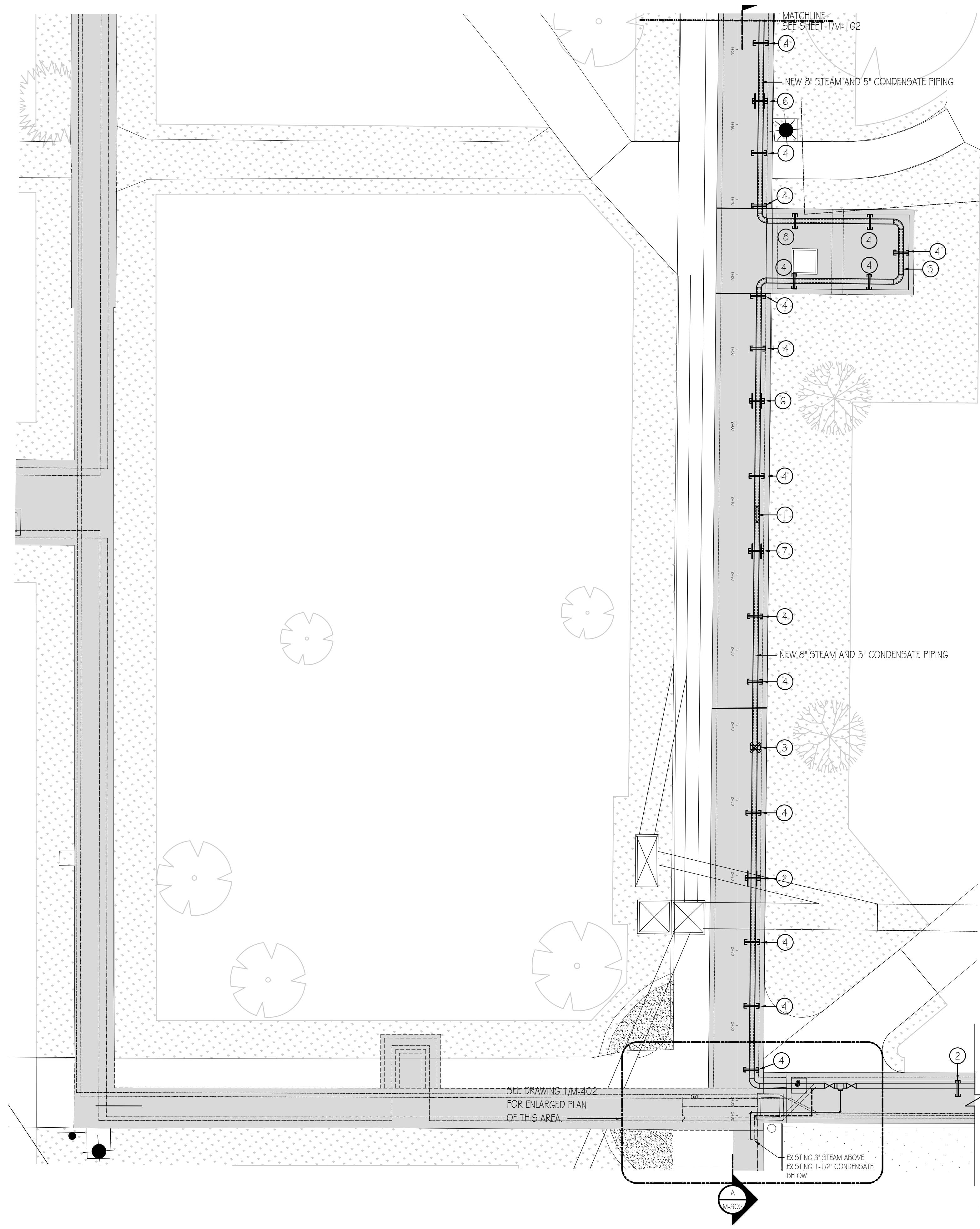
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 OVERALL SITE PLAN

DRAWN:GWM CHECK: AJP  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO.  
 208106-088  
 SHEET NO.  
**M-100**





- ### REMODEL NOTES
- ① NEW MAIN LINE DRIP. SEE DETAIL 3 / M-501
  - ② PIPE SUPPORT WITH PIPE GUIDE, TO BE LOCATED 27'-6" FROM PIPE ELBOW TO THE SOUTH AS SHOWN. SEE DETAIL 5 / M-501
  - ③ NEW PIPE ANCHOR. SEE DETAIL 2 / M-501, LOCATE 45' FROM PIPE ELBOW TO THE SOUTH.
  - ④ PIPE SUPPORT, TYPICAL. SEE DETAIL 4 / M-501
  - ⑤ 18'-10" x 8'-0" EXPANSION LOOP
  - ⑥ PIPE SUPPORT WITH PIPE GUIDE TO BE LOCATED 16' FROM EXPANSION LOOP. SEE DETAIL 5/M-501.
  - ⑦ PIPE SUPPORT WITH PIPE GUIDE TO BE LOCATED 36' FROM EXPANSION LOOP. SEE DETAIL 5/M-501.



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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
STEAM PIPING IN TUNNEL  
REMODEL PLAN

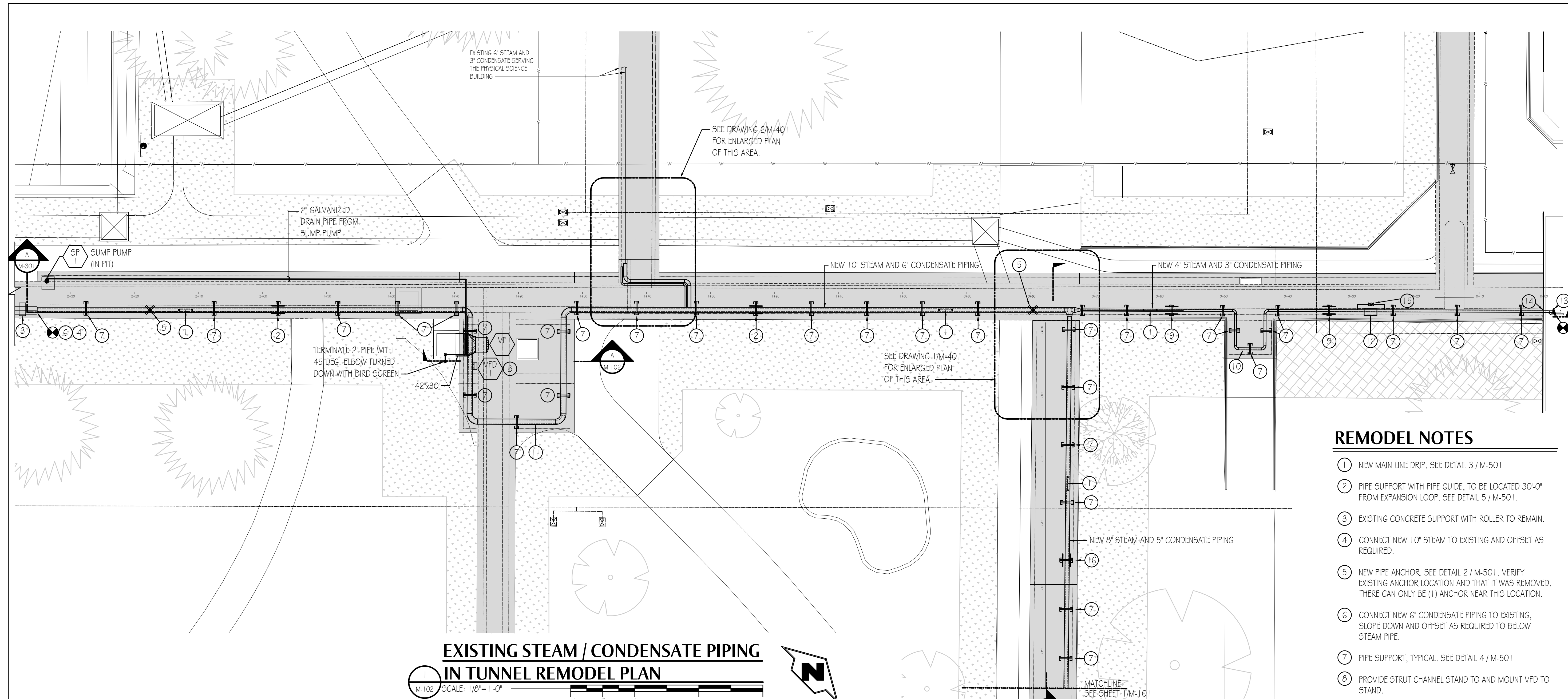
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VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-101

**EXISTING STEAM / CONDENSATE PIPING  
IN TUNNEL REMODEL PLAN**

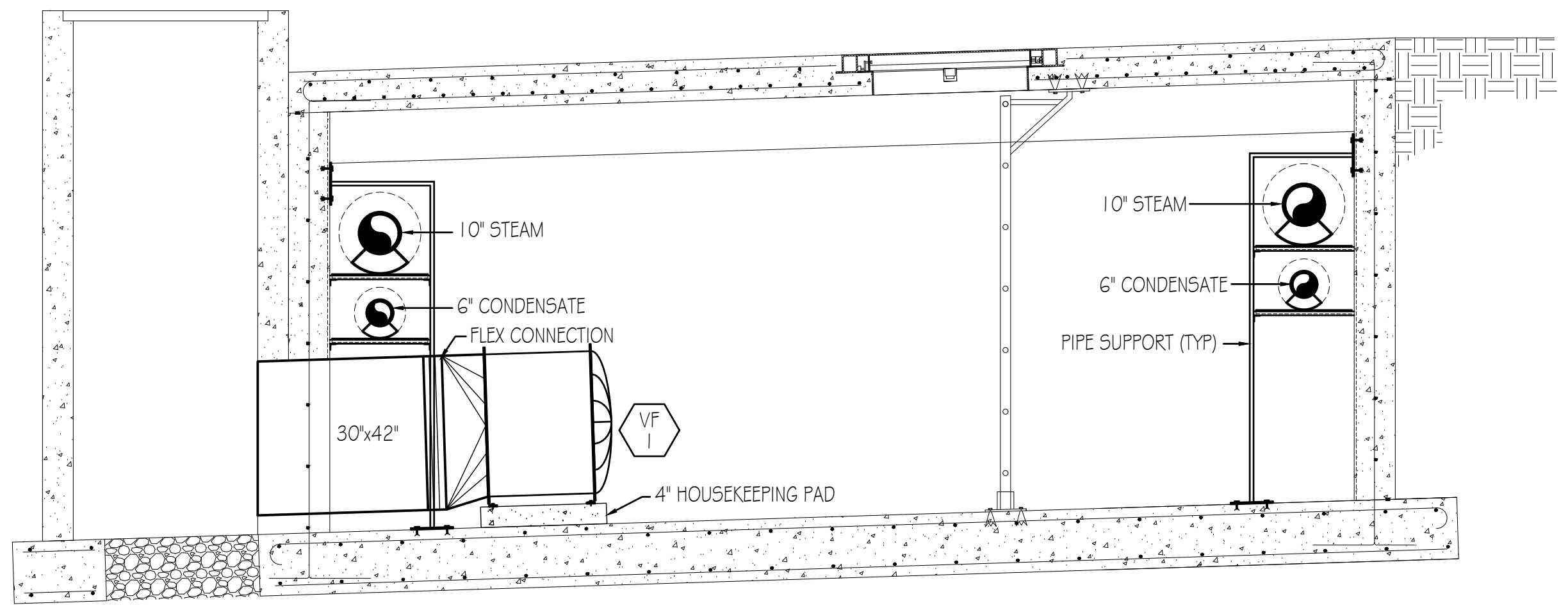
SCALE: 1/8" = 1'-0"







**EXISTING STEAM / CONDENSATE PIPING  
IN TUNNEL REMODEL PLAN**  
SCALE: 1/8" = 1'-0"



**EXPANSION LOOP VAULT SECTION**  
SCALE: 1/2" = 1'-0"

**REMODEL NOTES**

- 1 NEW MAIN LINE DRIP. SEE DETAIL 3 / M-501
- 2 PIPE SUPPORT WITH PIPE GUIDE, TO BE LOCATED 30'-0" FROM EXPANSION LOOP. SEE DETAIL 5 / M-501.
- 3 EXISTING CONCRETE SUPPORT WITH ROLLER TO REMAIN.
- 4 CONNECT NEW 10" STEAM TO EXISTING AND OFFSET AS REQUIRED.
- 5 NEW PIPE ANCHOR. SEE DETAIL 2 / M-501. VERIFY EXISTING ANCHOR LOCATION AND THAT IT WAS REMOVED. THERE CAN ONLY BE (1) ANCHOR NEAR THIS LOCATION.
- 6 CONNECT NEW 6" CONDENSATE PIPING TO EXISTING, SLOPE DOWN AND OFFSET AS REQUIRED TO BELOW STEAM PIPE.
- 7 PIPE SUPPORT, TYPICAL. SEE DETAIL 4 / M-501
- 8 PROVIDE STRUT CHANNEL STAND TO AND MOUNT VFD TO STAND.
- 9 PIPE SUPPORT WITH PIPE GUIDE TO BE LOCATED 8' FROM EXPANSION LOOP. SEE DETAIL 5/M-501.
- 10 6' DEEP x 5' WIDE EXPANSION LOOP.
- 11 18' DEEP x 14'-8" WIDE EXPANSION LOOP.
- 12 NEW STEAM REGULATOR. REFERENCE SECTION A/M-301 FOR MORE DETAIL.
- 13 NEW 4" STEAM AND 3" CONDENSATE TRIPLE OFFSET BUTTERFLY ISOLATION VALVES.
- 14 SEAL PIPE PENETRATION THROUGH WALL.
- 15 2" BYPASS WITH 2" GLOBE VALVE.
- 16 PIPE SUPPORT WITH GUIDE TO BE LOCATED 36' FROM EXPANSION LOOP. SEE DETAIL 5/M-501.

NO.	REVISIONS	DATE

DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
STEAM PIPING IN TUNNEL  
REMODEL PLAN

DRAWN:GWM | CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-102





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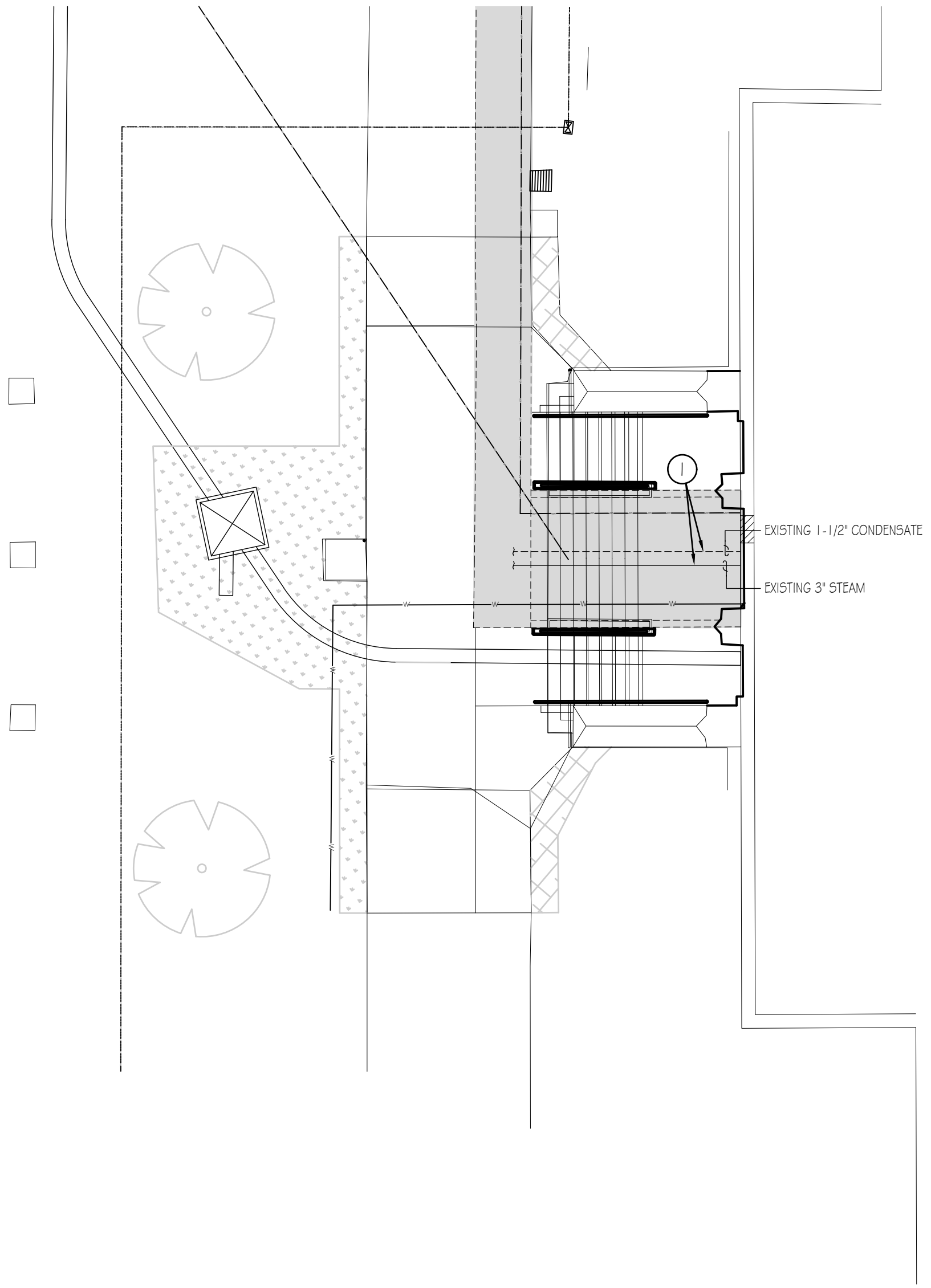
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
STEAM PIPING IN TUNNEL  
REMODEL PLAN

DRAWN:GWM CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-103

**REMODEL NOTES**

- ① REMOVE AND REPLACE THE 3" STEAM PIPE INSULATION AND 1-1/2" CONDENSATE PIPE INSULATION. APPROXIMATELY 25 FT. EXISTING PIPE TO REMAIN. PROVIDE NEW PIPE SUPPORTS FOR THE EXISTING STEAM AND CONDENSATE PIPES TO LIFT THEM OFF THE GROUND.



**EXISTING STEAM / CONDENSATE PIPING  
IN TUNNEL REMODEL PLAN**

M-103 SCALE: 1/8"=1'-0"



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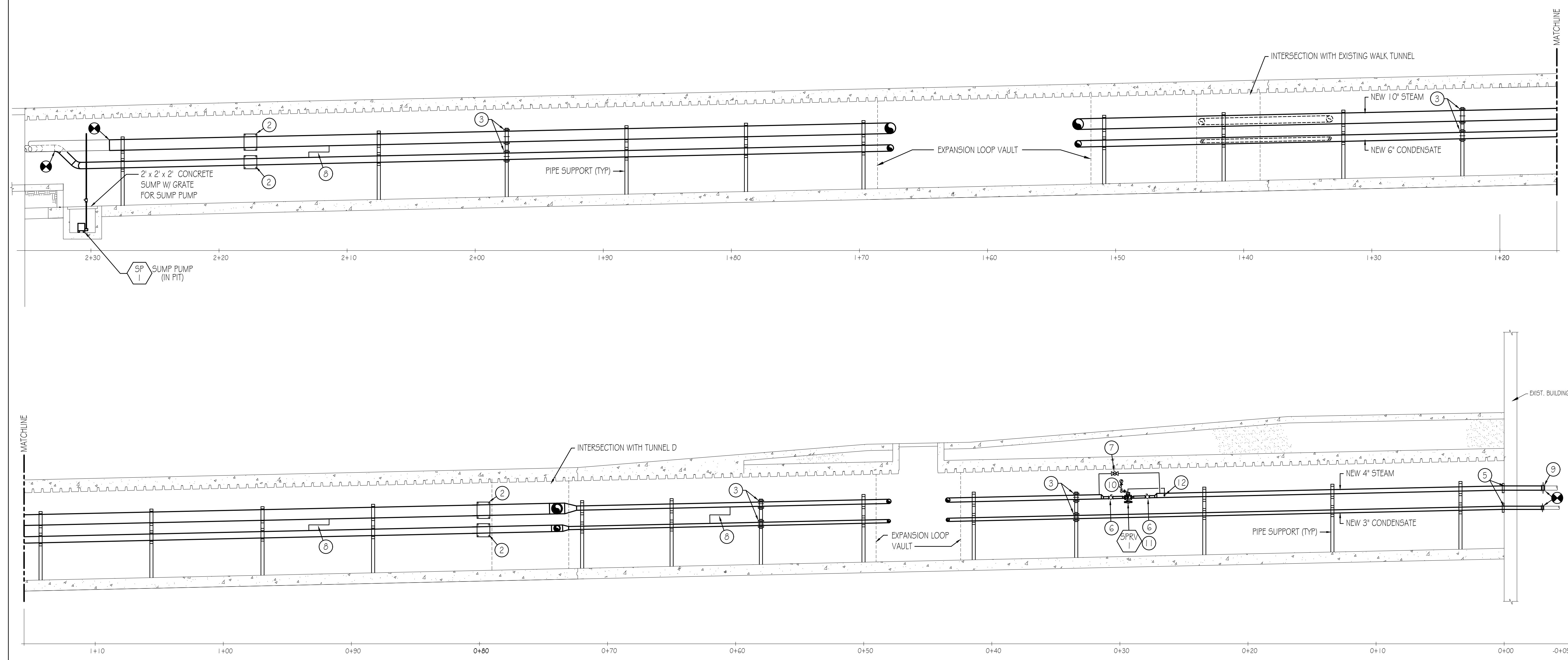
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
TUNNEL C SECTION

DRAWN:GWM | CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-301

**DRAWING NOTES**

- ⑧ MAIN LINE DRIP, SEE DETAIL 3 / M-501.
- ⑨ NEW 4" STEAM AND 3" CONDENSATE TRIPLE OFFSET BUTTERFLY ISOLATION VALVES.
- ⑩ PRESSURE GAUGE WITH 3-1/2" DIA GLASS CASE AND 4" LONG EXTENSION WITH PIG TAIL.
- ⑪ 3" STEAM PRESSURE REGULATOR.
- ⑫ SLOPE PRESSURE LINES DOWN TOWARDS PRESSURE SENSORS.
- ① CONNECT NEW STEAM AND CONDENSATE PIPING TO EXISTING PIPING IN TUNNEL THAT TEES TO THE NORTH.
- ② NEW PIPE ANCHOR. SEE DETAIL 2 / M-501.
- ③ PIPE GUIDE, SEE DETAIL 5 / M-501.
- ④ NEW 4" STEAM AND 3" CONDENSATE ISOLATION VALVES.
- ⑤ SEAL PIPE PENETRATION THROUGH WALL W/ ANCHOR.
- ⑥ 2" FLANGED BALL VALVE.
- ⑦ 2" BYPASS WITH 2" GLOBE VALVE.



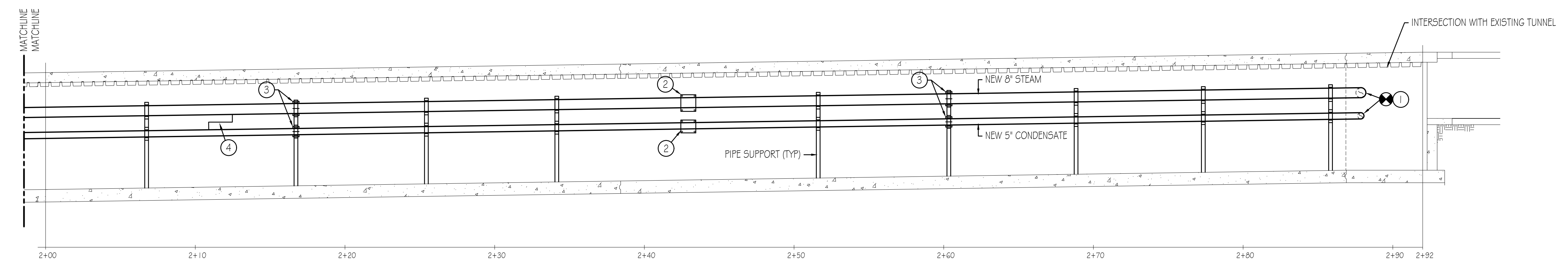
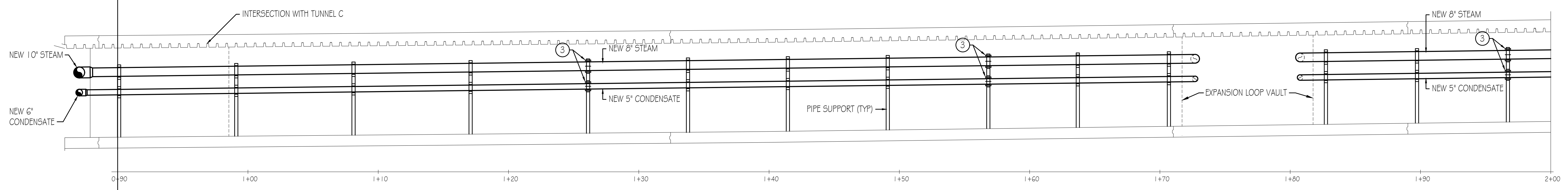
**A TUNNEL C - STEAM / COND. PIPING REMODEL SECTION**  
M-301 SCALE: 1/4" = 1'-0"





**DRAWING NOTES**

- ① CONNECT NEW STEAM AND CONDENSATE PIPING TO EXISTING PIPING IN TUNNEL THAT TEES TO THE NORTH.
- ② NEW PIPE ANCHOR.
- ③ PIPE GUIDE, SEE DETAIL 5 / M-501.
- ④ MAIN LINE DRIP, SEE DETAIL 3 / M-501.



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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY

TUNNEL D SECTION

**TUNNEL D - STEAM / COND. PIPING REMODEL SECTION**  
SCALE: 1/4" = 1'-0"  
5 0 10

DRAWN: GWM	CHECK: AJP
VERIFY SCALE: Scales based on 22"x34" prints.	
PROJECT NO. 208106-088	
SHEET NO. M-302	



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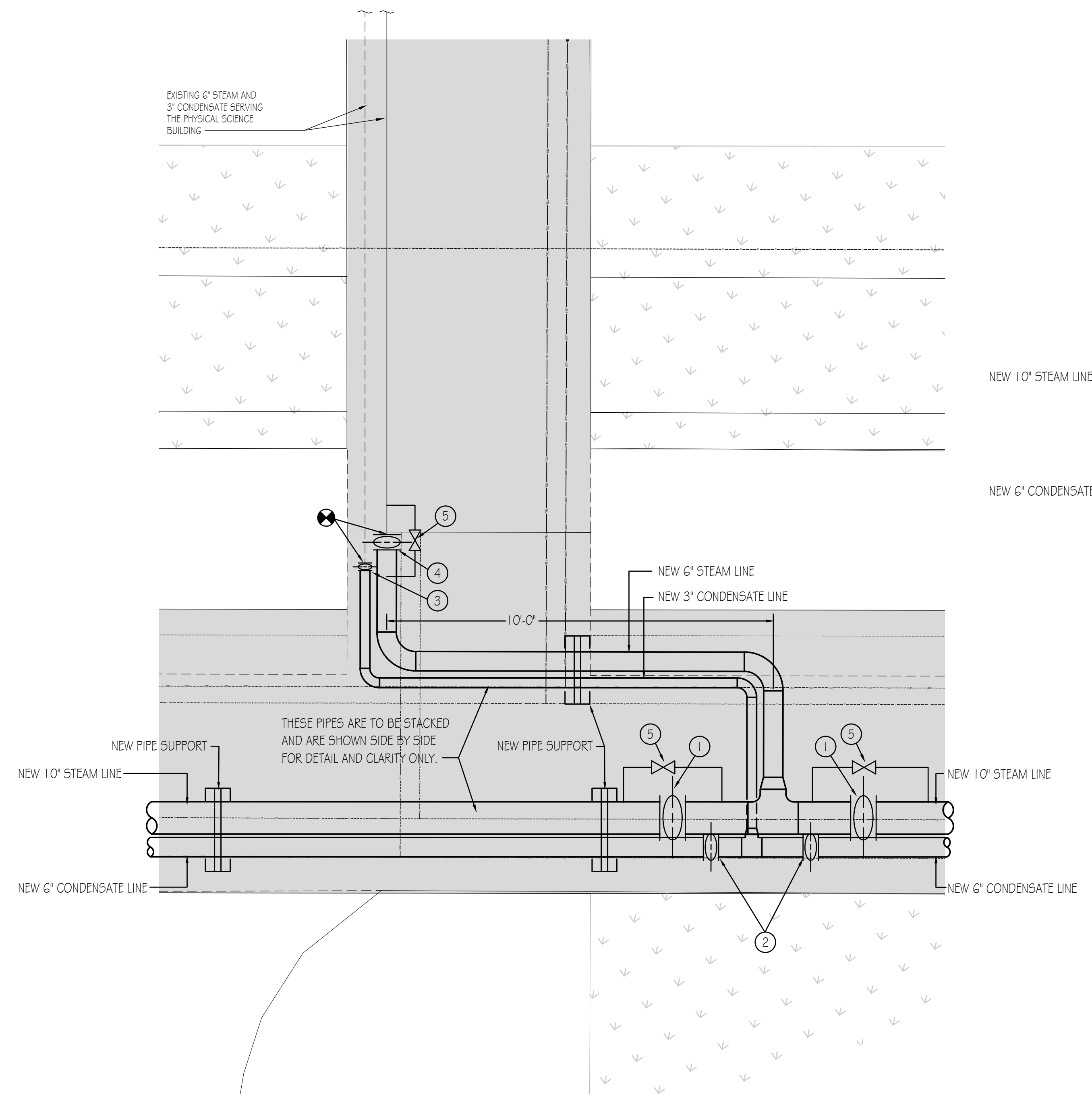
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 ENLARGED TUNNEL REMODEL PLANS

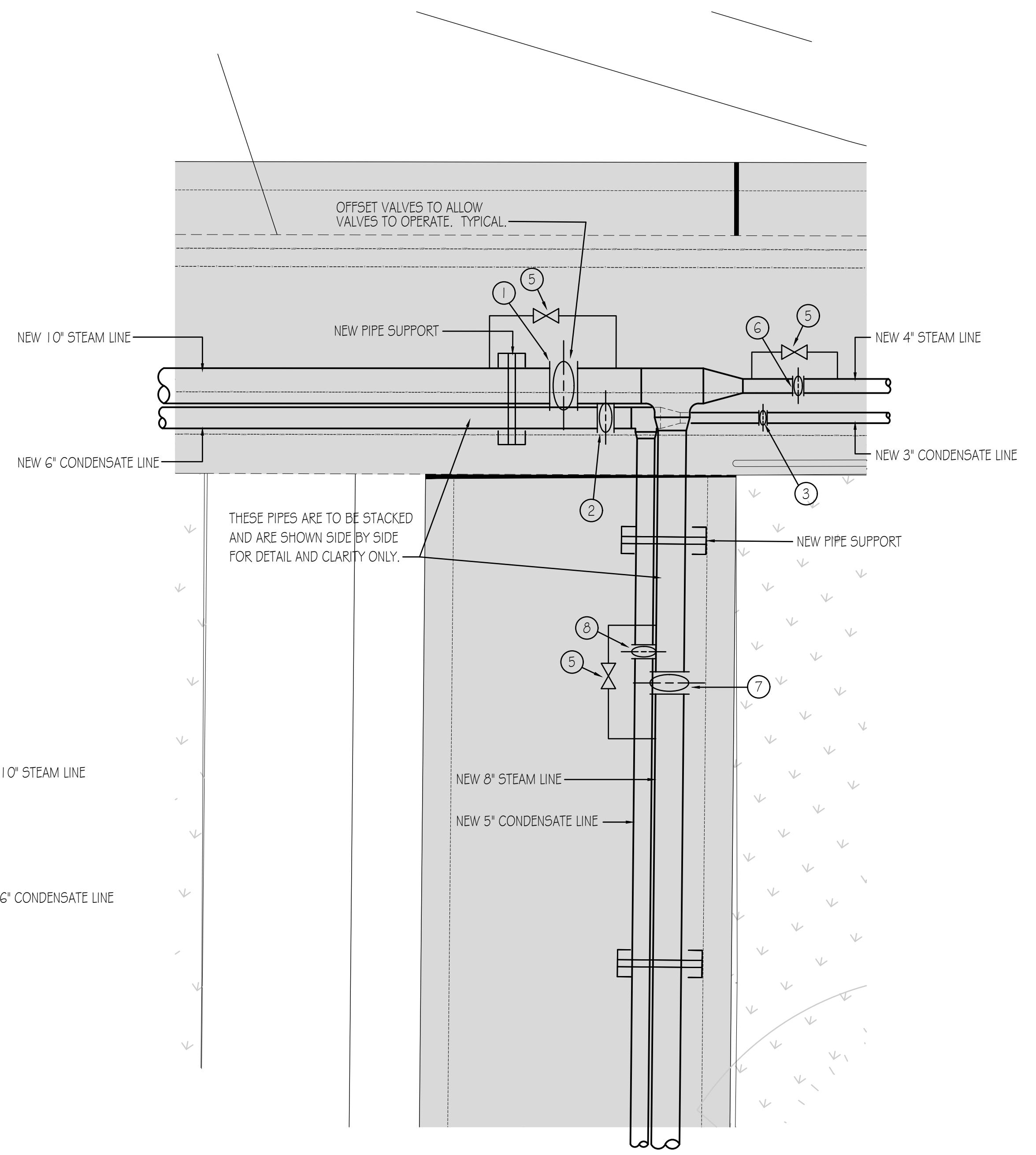
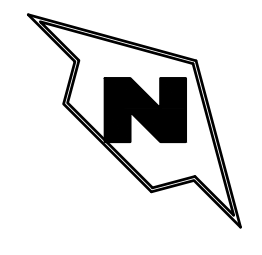
DRAWN:GWM | CHECK: AJP  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. M-401

**DRAWING NOTES**

- ① NEW 1" STEAM TRIPLE OFFSET BUTTERFLY ZONE VALVE.
- ② NEW 6" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ③ NEW 3" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ④ NEW 6" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ⑤ NEW 1" BYPASS WARM-UP BALL VALVE.
- ⑥ NEW 4" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ⑦ NEW 8" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ⑧ NEW 5" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.



2 ENLARGED TUNNEL REMODEL PLAN  
 M-401 SCALE: 1/2"=1'-0"



1 ENLARGED TUNNEL REMODEL PLAN  
 M-401 SCALE: 1/2"=1'-0"





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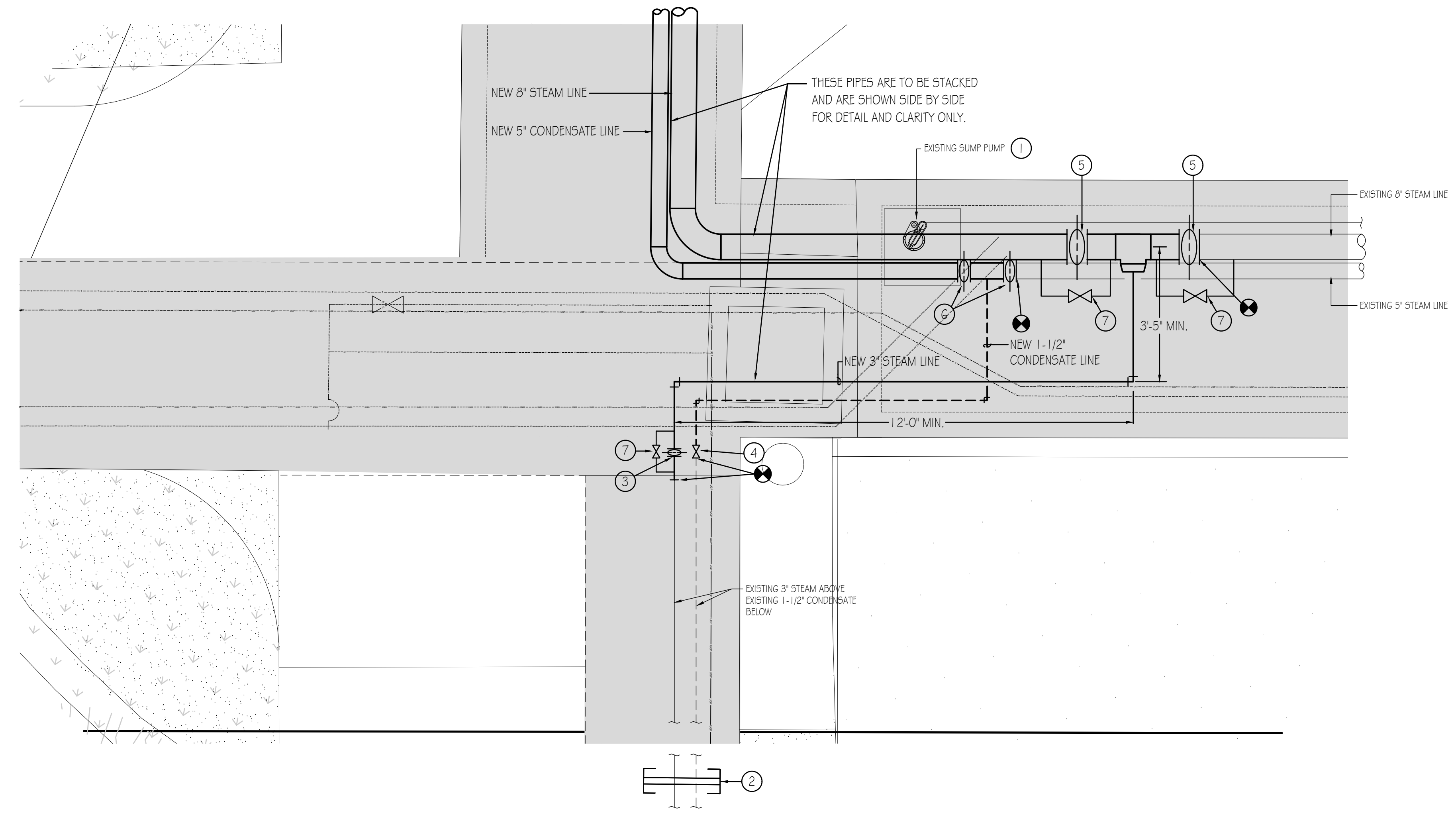
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
ENLARGED TUNNEL REMODEL PLAN

DRAWN:GWM CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-402

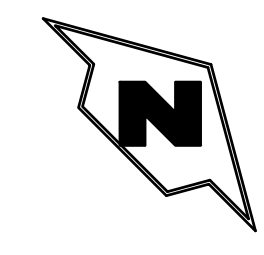
**DRAWING NOTES**

- ① PROTECT EXISTING SUMP PUMP DURING CONSTRUCTION.
- ② NEW PIPE SUPPORT GUIDE 20' DOWN EXISTING TUNNEL.
- ③ NEW 3" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ④ NEW 1-1/2" CONDENSATE ZONE GATE VALVE.
- ⑤ NEW 8" STEAM ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ⑥ NEW 5" CONDENSATE ZONE TRIPLE OFFSET BUTTERFLY VALVE.
- ⑦ NEW 1" BYPASS WARM-UP BALL VALVE.

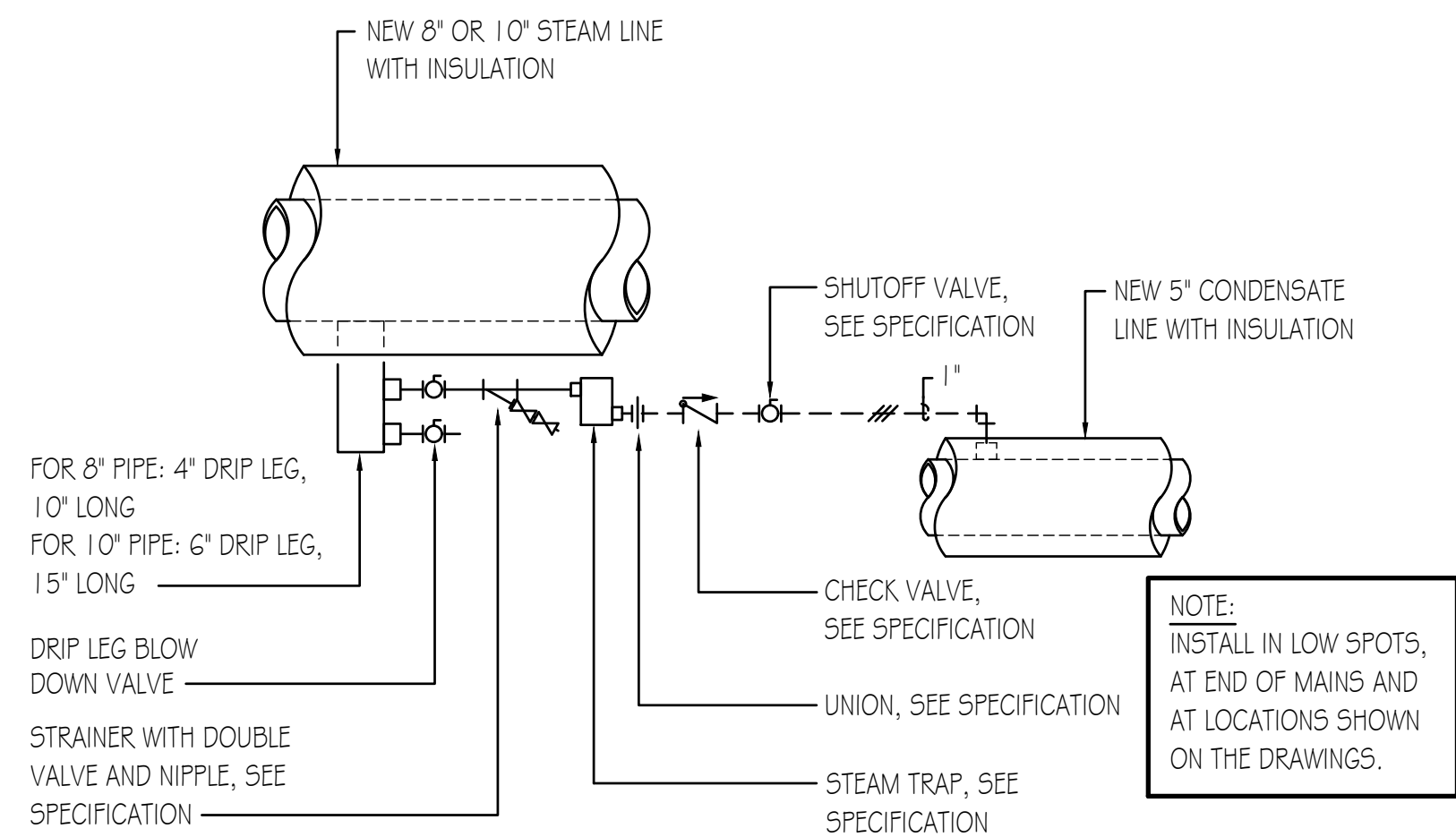


**1 ENLARGED TUNNEL REMODEL PLAN**

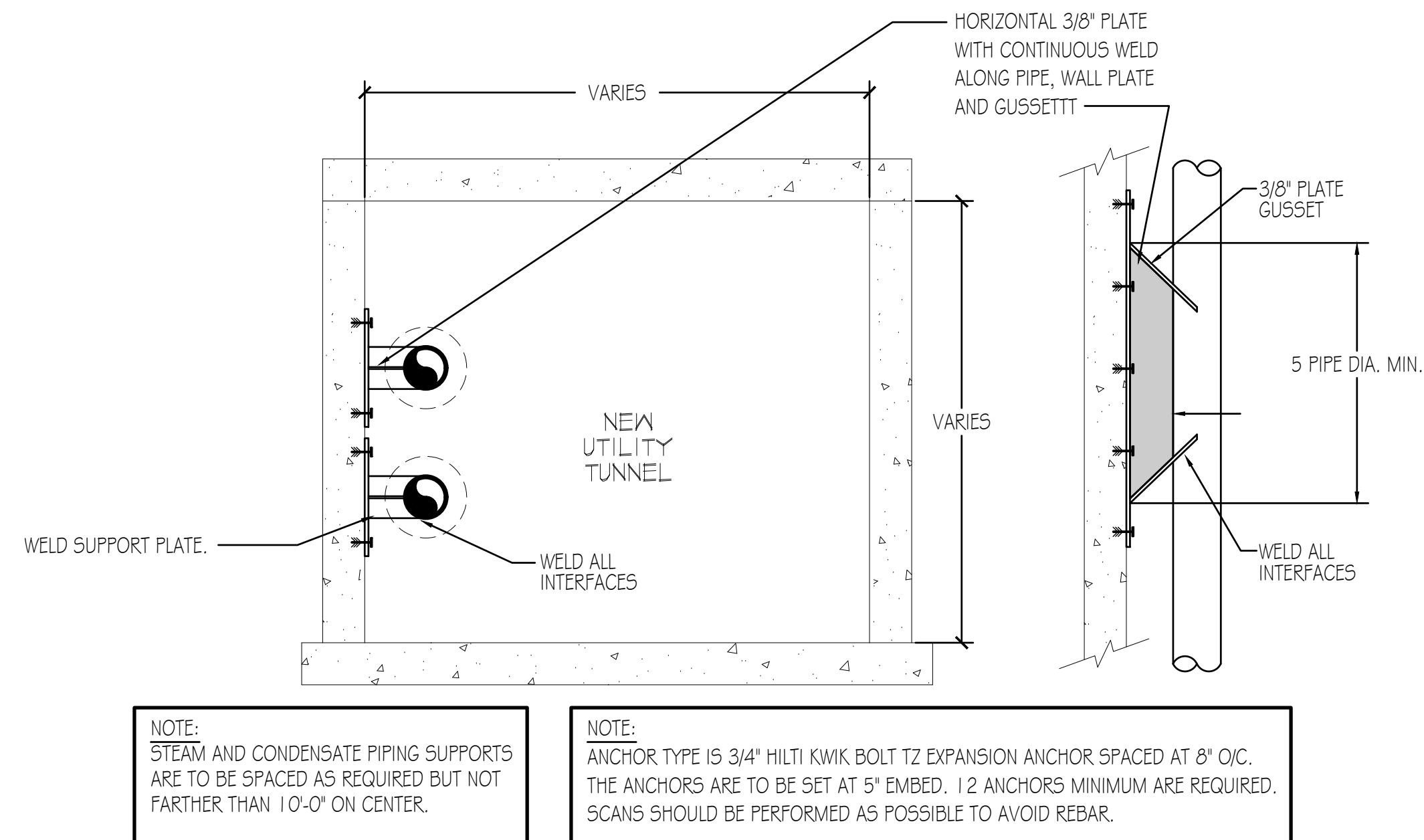
M-402 SCALE: 1/2" = 1'-0"



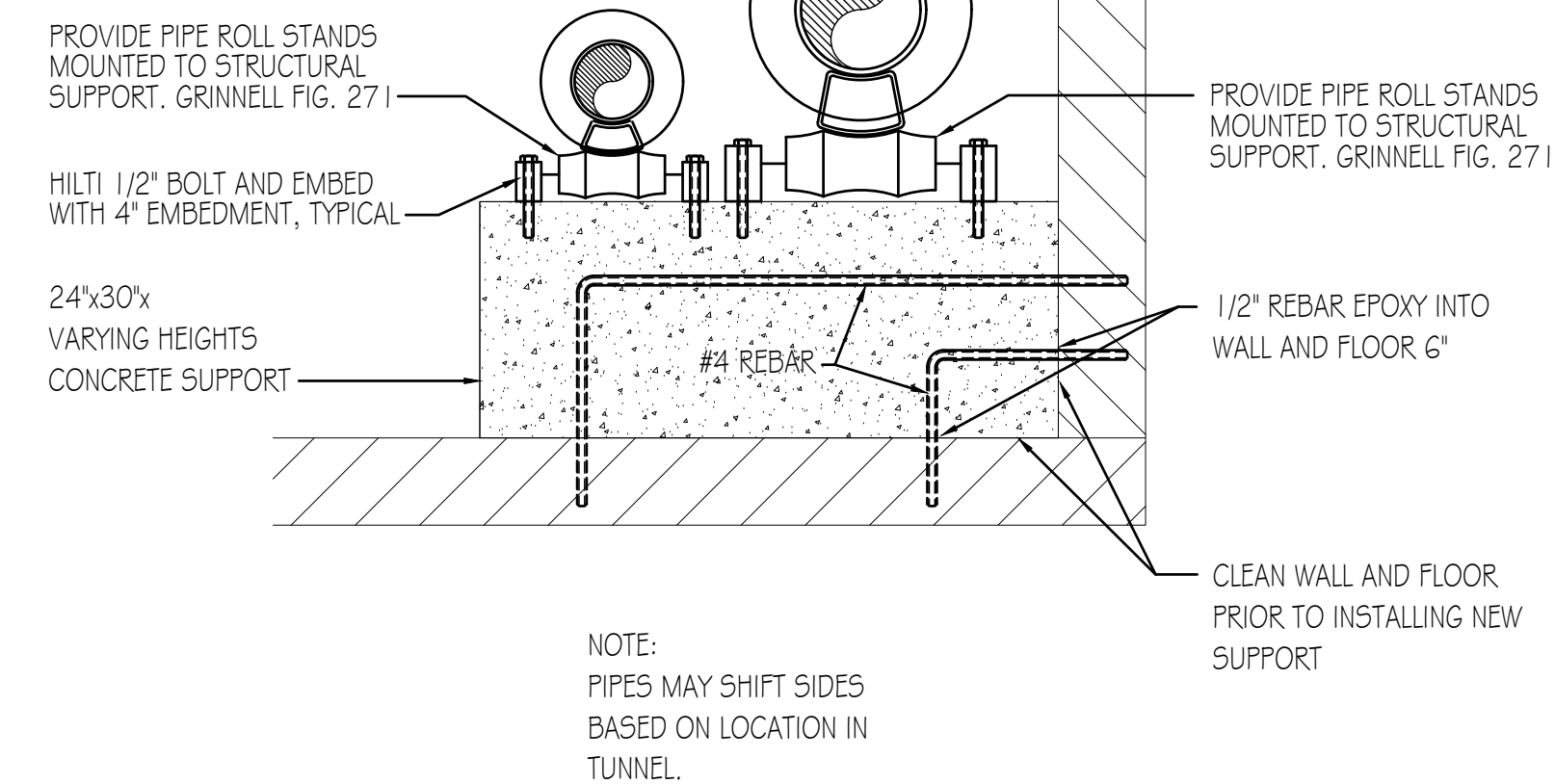




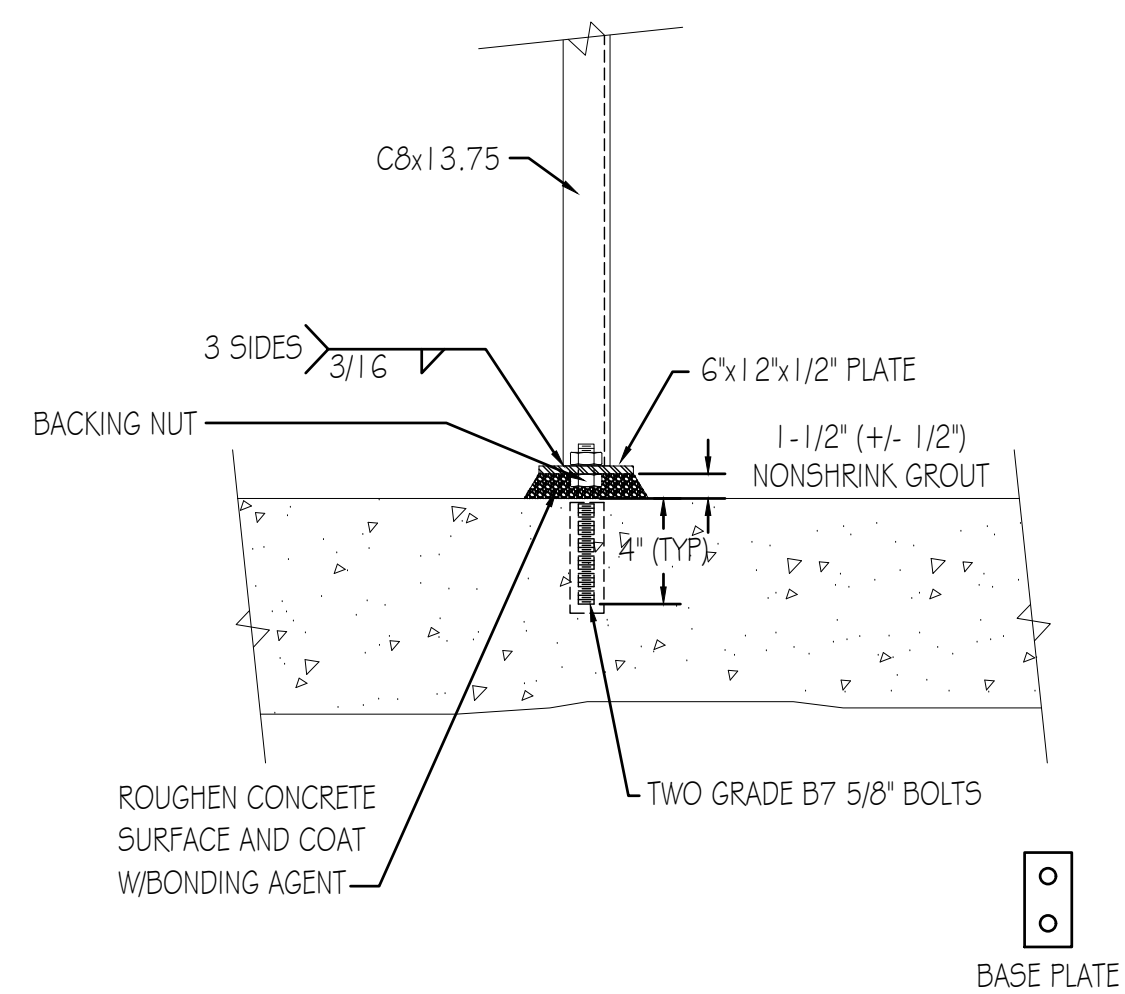
3 DRIP LEG DETAIL  
SCALE: NONE



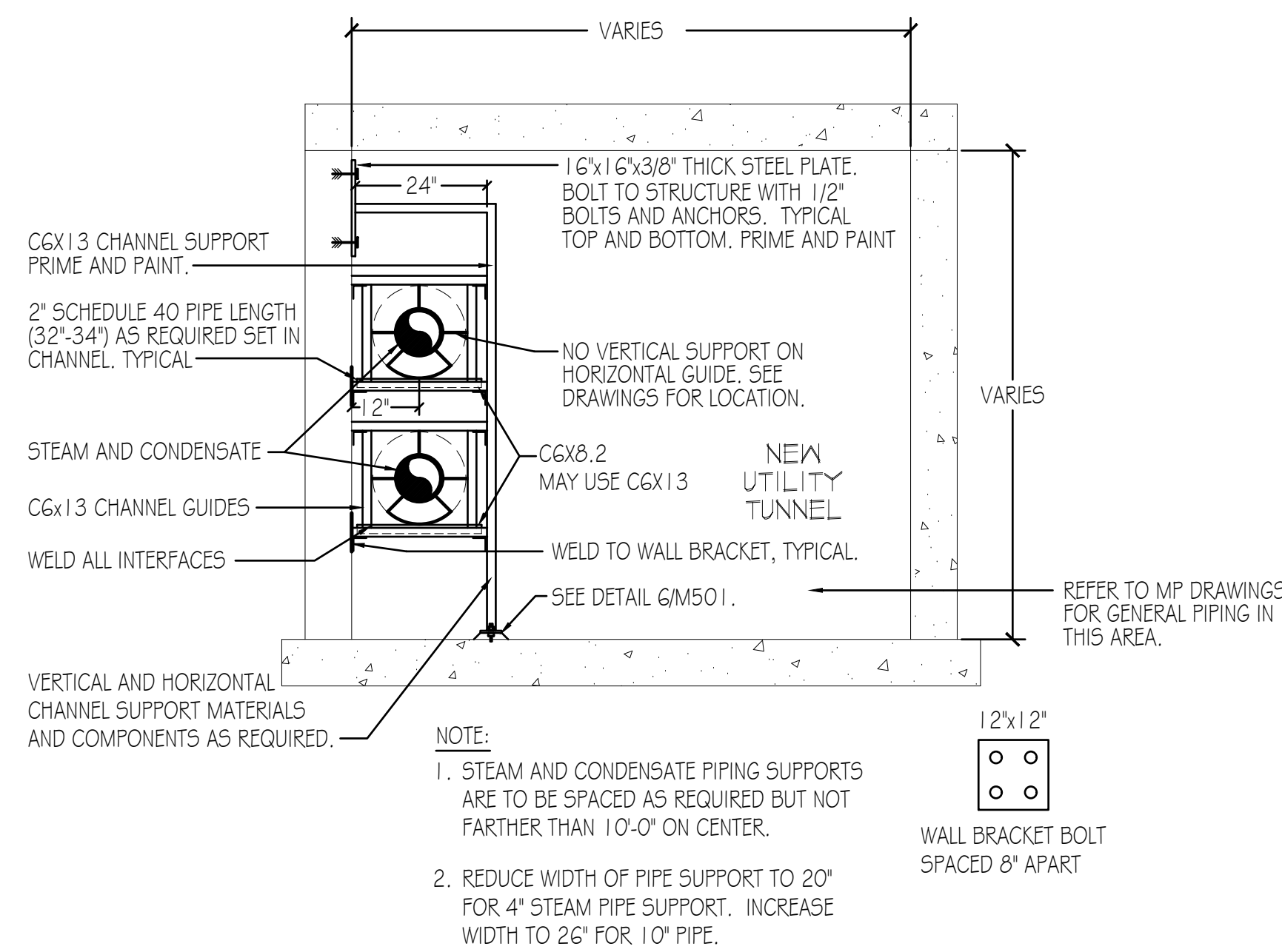
2 ANCHOR DETAIL  
SCALE: NONE



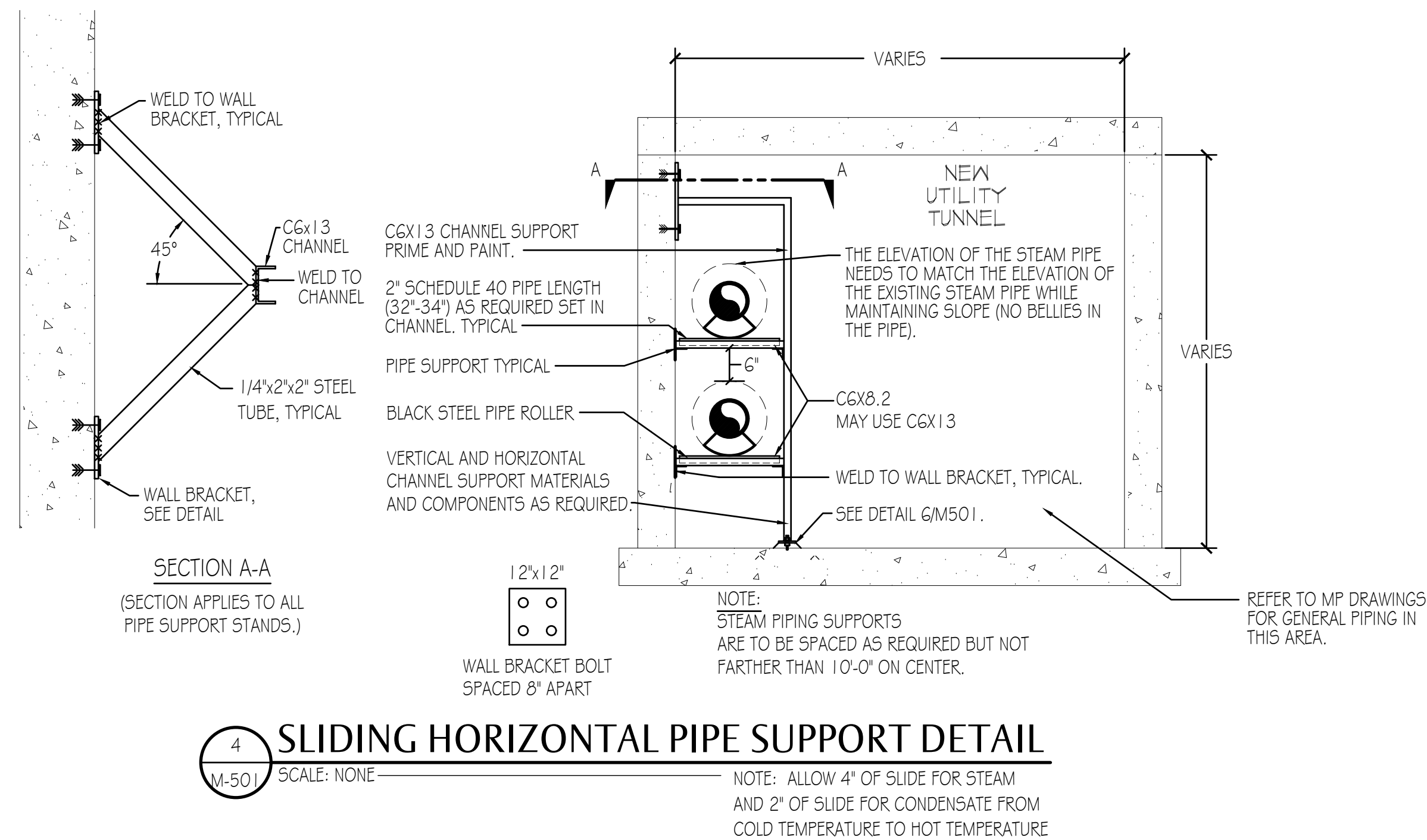
1 EXISTING CONCRETE PIPE SUPPORT DETAIL - FOR REFERENCE ONLY  
SCALE: NONE



6 BASE PLATE DETAIL  
SCALE: NONE



5 STEAM GUIDE DETAIL  
SCALE: NONE



4 SLIDING HORIZONTAL PIPE SUPPORT DETAIL  
SCALE: NONE

NO.	REVISIONS	DATE

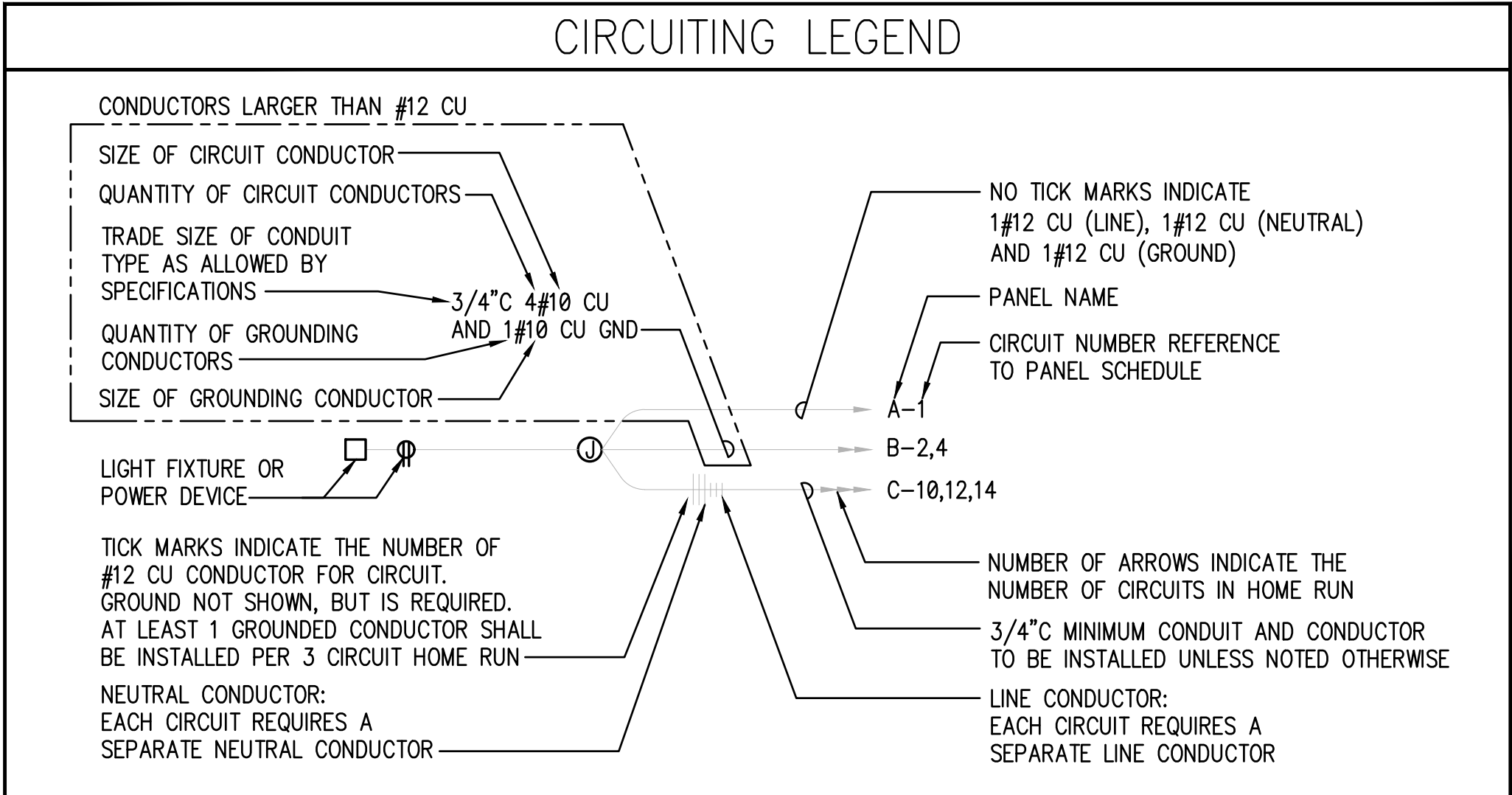
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
PIPING SUPPORT, GUIDE, AND ANCHOR DETAILS AND SECTIONS

DRAWN: KGM | CHECK: AJP  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. M-501





### SITE ELECTRICAL LEGEND

	SINGLE PHASE UTILITY TRANSFORMER
	GROUND SLEEVE
	THREE PHASE UTILITY TRANSFORMER AND MOUNTING PAD
	UTILITY PRIMARY POWER GROUND SLEEVE
	FIBER OPTIC VAULT
	CENTURY LINK PEDESTAL
	CABLE ONE PEDESTAL
	MYERS POWER PEDESTAL
	IRRIGATION CONTROLLER
	STREET LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
	STREET LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
	PARKING LOT LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
	PARKING LOT LIGHT POLE WITH LUMINAIRE FIXTURE TYPE XXX NUMBER IDENTIFIED
	13x24 LIGHTING JUNCTION BOX

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### LIGHTING LEGEND

	LIGHT FIXTURE TYPE AND ZONING DESCRIPTION: UPPER CASE LETTER DESIGNATES FIXTURE TYPE AS INDICATED ON LIGHTING FIXTURE SCHEDULE LOWER CASE LETTER DESIGNATES SWITCHING ZONE
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	LIGHT FIXTURE, WALL MOUNTED, SCONCE
	LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	EXTERIOR WALL MOUNTED FIXTURE
	EXTERIOR WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY PACK
	WALL OR CEILING MOUNTED EXIT LIGHT ARROWS INDICATE DIRECTION OF NEAREST EXIT
	WALL OR CEILING MOUNTED COMBINATION EMERGENCY AND EXIT LIGHT, ARROWS INDICATE DIRECTION OF NEAREST EXIT
	REMOTE HEAD EMERGENCY LIGHT
	EMERGENCY LIGHT
	SWITCH AT +48" TOP - LOWER CASE LETTER DESIGNATES SWITCHING ZONE BOTTOM - UPPER CASE LETTER DESIGNATES SWITCH TYPE
	3 INDICATES 3 WAY SWITCH 4 INDICATES 4 WAY SWITCH D DIMMER T TIMER F FAN SWITCH
	WALL MOUNT OCCUPANCY SENSOR

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### POWER LEGEND

	MANUAL MOTOR STARTER SWITCH
	TIMECLOCK
	CONTACTOR
	IRRIGATION CONTROL PANEL
	DISCONNECT SWITCH POLES, AMPS, AND NEMA ENCLOSURE TYPE AS NOTED
	FUSED DISCONNECT SWITCH POLES, AMPS, NEMA ENCLOSURE TYPE, AND FUSE SIZE AS NOTED
	THERMOSTAT, AT +48 INCHES
	MOTOR F INDICATES FAN (FRACTIONAL HORSEPOWER) # INDICATES MOTOR SIZE (IN HORSEPOWER)
	JUNCTION BOX
	RECESSED AUDIO SPEAKER
	VOLUME CONTROL, AT +48 INCHES
	ELECTRICAL PANEL
	SURFACE RACEWAY
	GFI
	C
	SPD
	WP
	GFI
	C
	SPD
	WP
	DATA/COMM/POWER FLOOR BOX
	RECESSED ENTERTAINMENT BOX
	CARD READER BOX
	TELEVISION DUPLEX RECEPTACLE AND CABLE JUNCTION BOX LOCATION
	30A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION
	50A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION
	ELECTRICAL METER
	CURRENT TRANSFORMER CABINET SIZE AS INDICATED ON DRAWINGS
	UNIT HEATER SIZE AS INDICATED ON DRAWINGS
	FAN FORCED WALL HEATER SIZE AS INDICATED ON DRAWINGS
	WATER HEATER SIZE AND TYPE AS INDICATED ON DRAWINGS
	ELECTRIC BASEBOARD HEATER SIZE AND TYPE AS INDICATED ON DRAWINGS
	MECHANICAL EQUIPMENT CALLOUT

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### ABBREVIATIONS

A	AMPERE(S)
AL	ALUMINUM
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
HZ	FREQUENCY IN CYCLES PER SECOND
F	FUSE
FS	FUSIBLE SWITCH
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
KV	KILOVOLT
KVA	KILOWATT VOLT AMPS
KW	KILOWATT(S)
KCMIL	THOUSAND CIRCULAR MIL(S)
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
SWBD	SWITCHBOARD
XMFR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SYSTEM
V	VOLT(S)
VA	VOLTAMP(S)
W	WATT(S)
WP	WEATHER PROOF

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PROJECT NO. 22-359

KELLER ASSOCIATES  
305 North 3rd Ave, Suite A  
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PROFESSIONAL ENGINEER  
REGISTERED IN IDAHO  
13299  
03/25/2028  
DATE OF ID  
MATTHEW N. BRADLEY


7/15/2022	REVISION #1	DATE
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
ELECTRICAL TITLE SHEET

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO.  
208106-088  
SHEET NO.  
E000

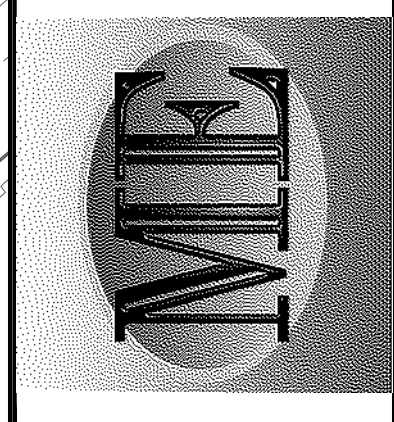




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REGISTERED IN THE STATE OF IDAHO  
13299  
03/25/2022  
MATTHEW N. BRADLEY

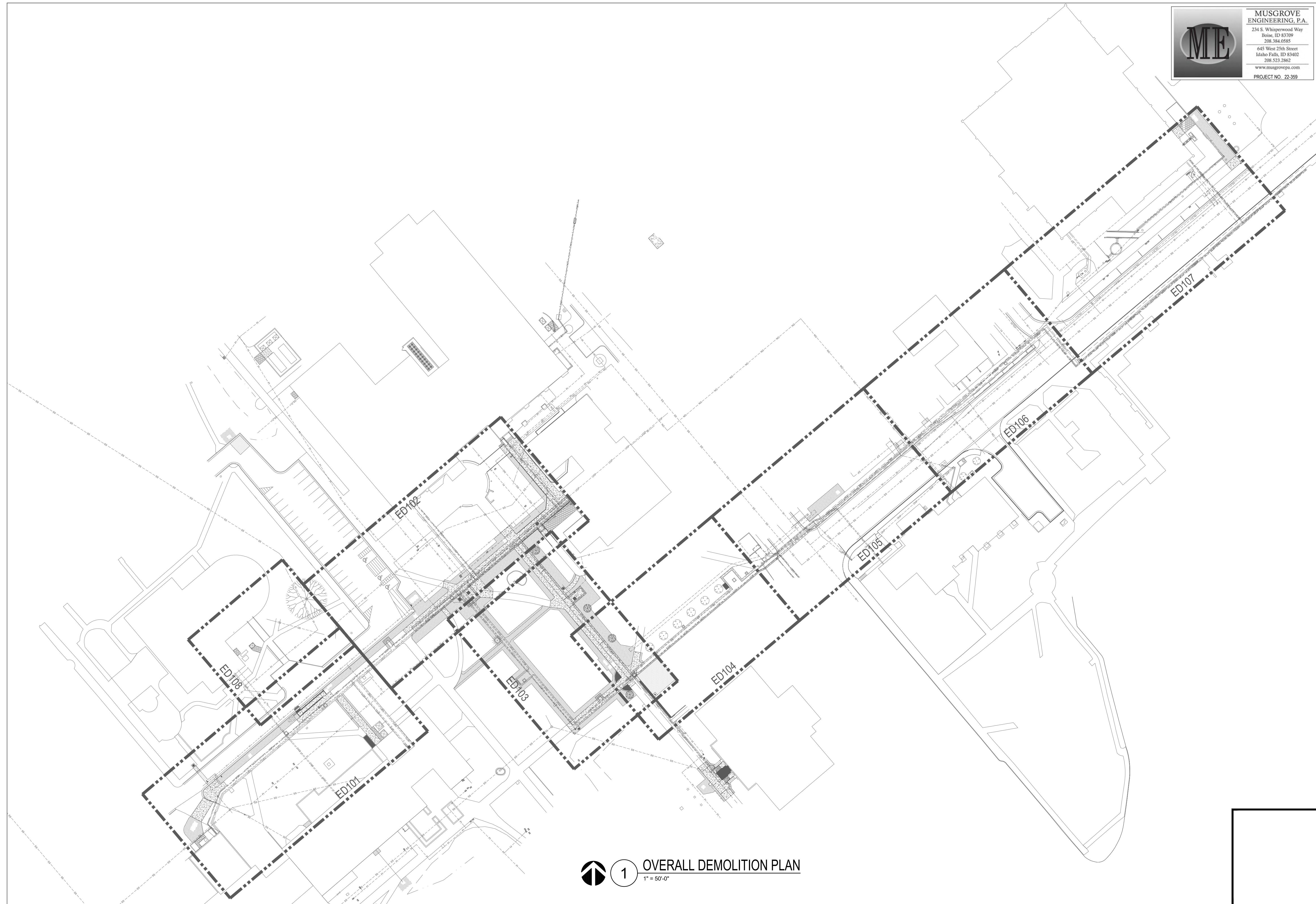
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TUNNEL

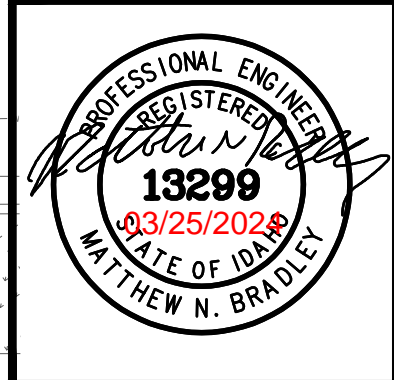
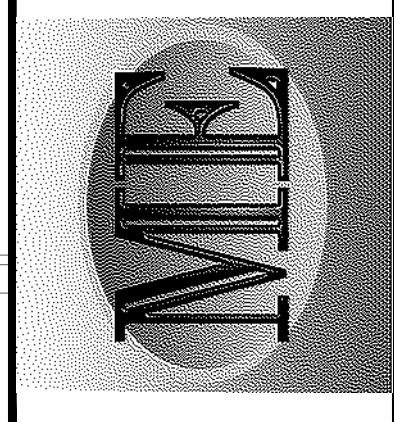
IDAHO STATE UNIVERSITY  
OVERALL DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO. 208106-088  
SHEET NO. ED100



 **1** OVERALL DEMOLITION PLAN  
1" = 50'-0"





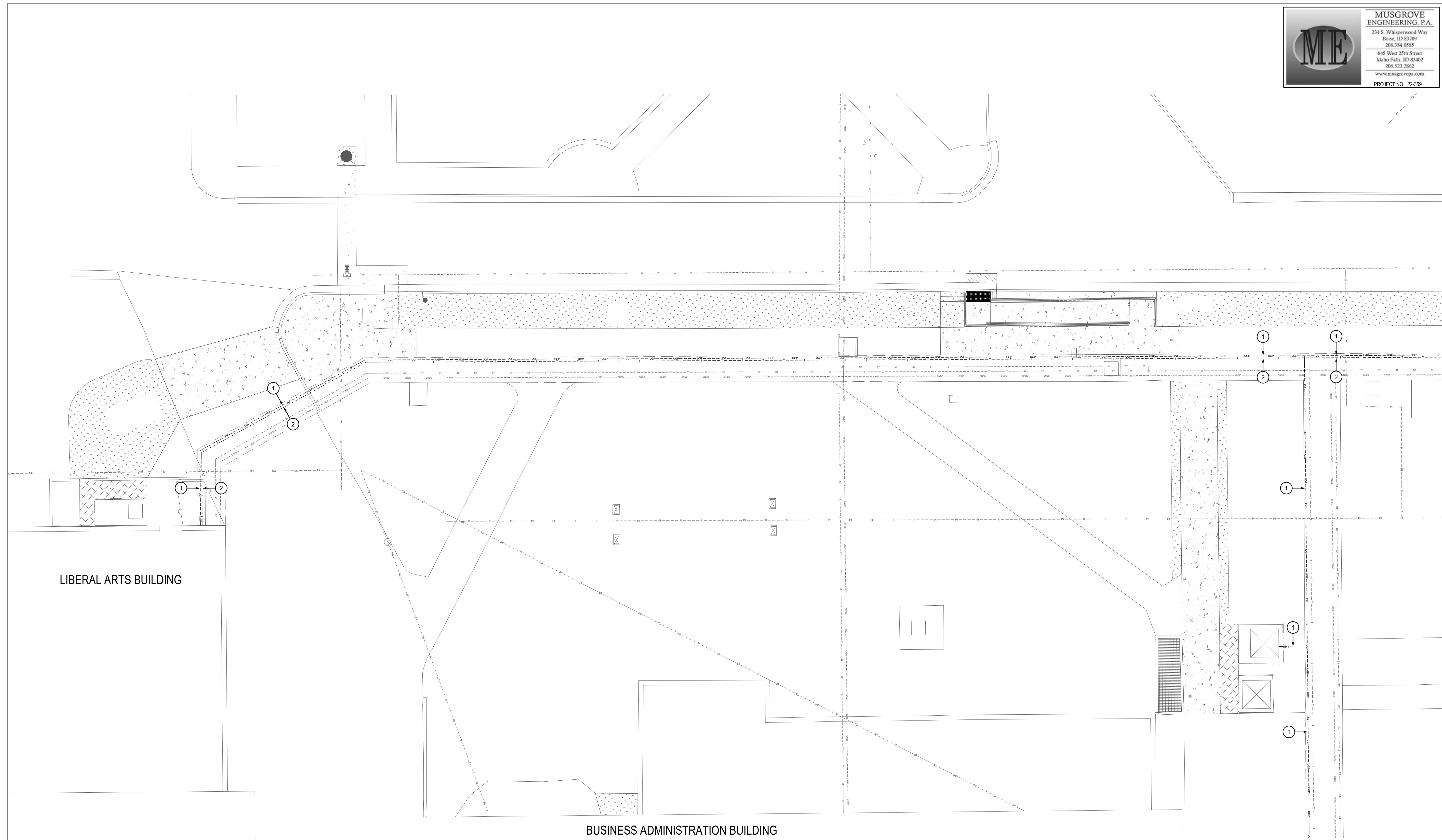
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

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 PROJECT NO. 208106-088  
 SHEET NO. ED101



LIBERAL ARTS BUILDING

BUSINESS ADMINISTRATION BUILDING

**1 DEMOLITION PLAN**  
 1" = 10'-0"

**GENERAL NOTES:**

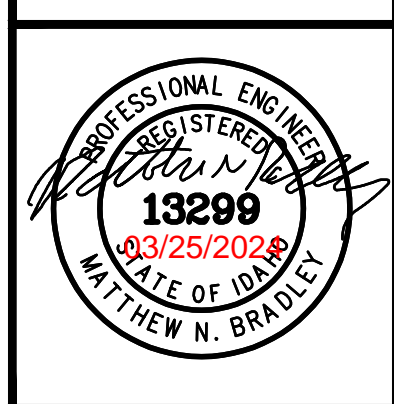
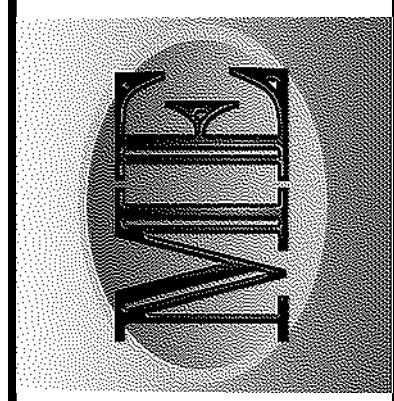
- MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS. CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL. CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.

**KEYED NOTES:**

- EXISTING POWER LINE TO BE REMOVED. IDAHO POWER SHALL REMOVE PRIMARY POWER CONDUCTORS. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN.
- EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301.

1-1/2 Inches





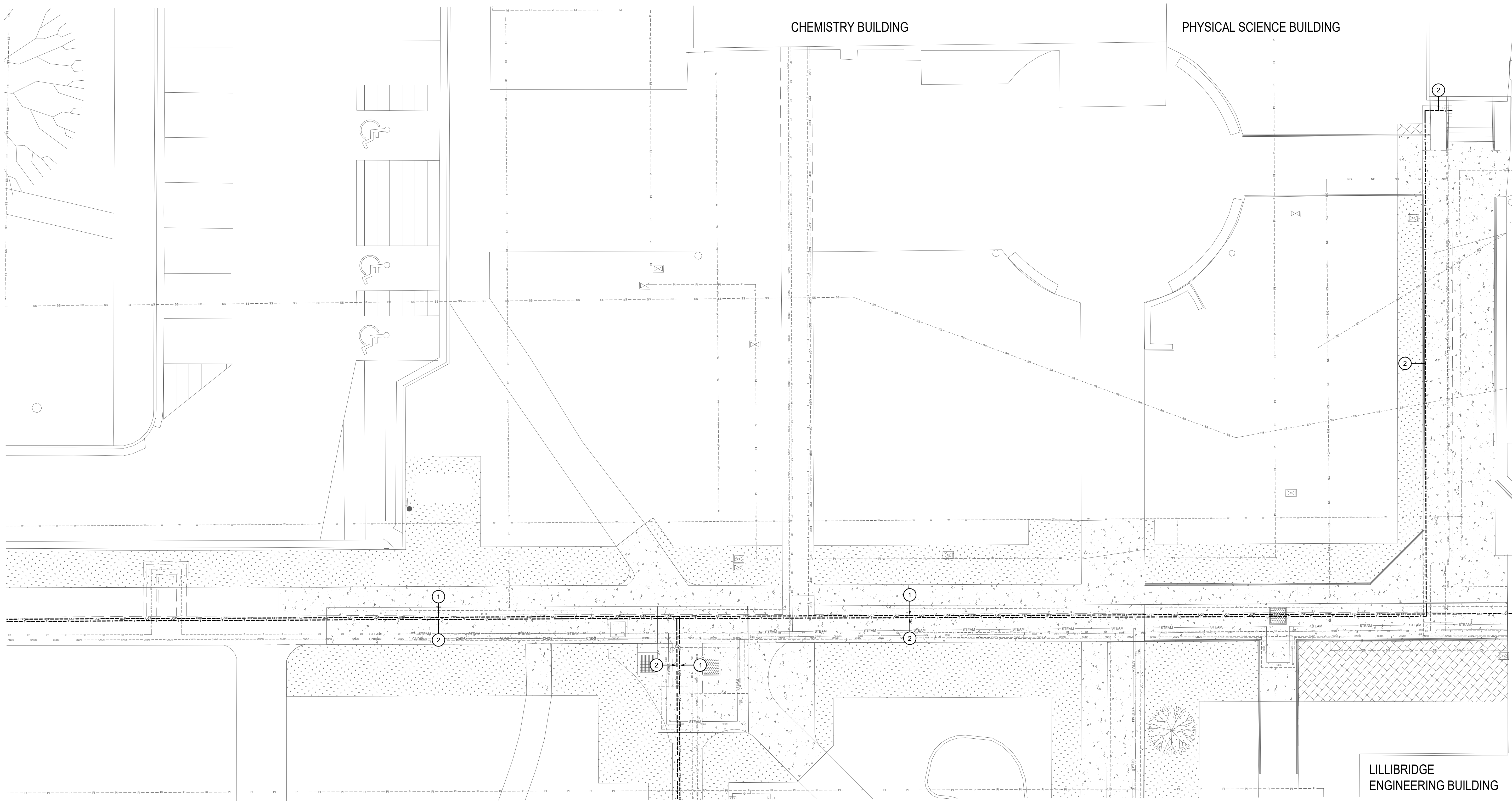
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 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

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 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. ED102



**1 DEMOLITION PLAN**  
 1" = 10'-0"

**GENERAL NOTES:**

1. MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS, CONTACT CHRIS OLSEN WITH NETCOM. FOR COORDINATION OF REMOVAL, CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.

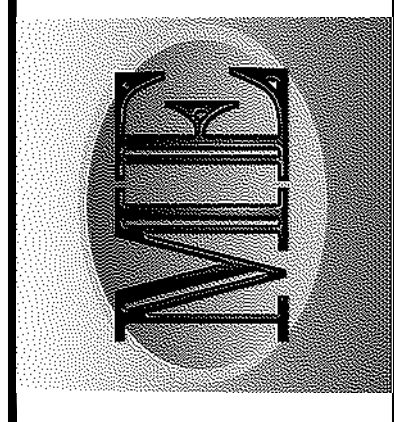
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- EXISTING PRIMARY POWER LINE TO BE REMOVED. IDAHO POWER SHALL REMOVE PRIMARY POWER CONDUCTORS. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN.
  - EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301.



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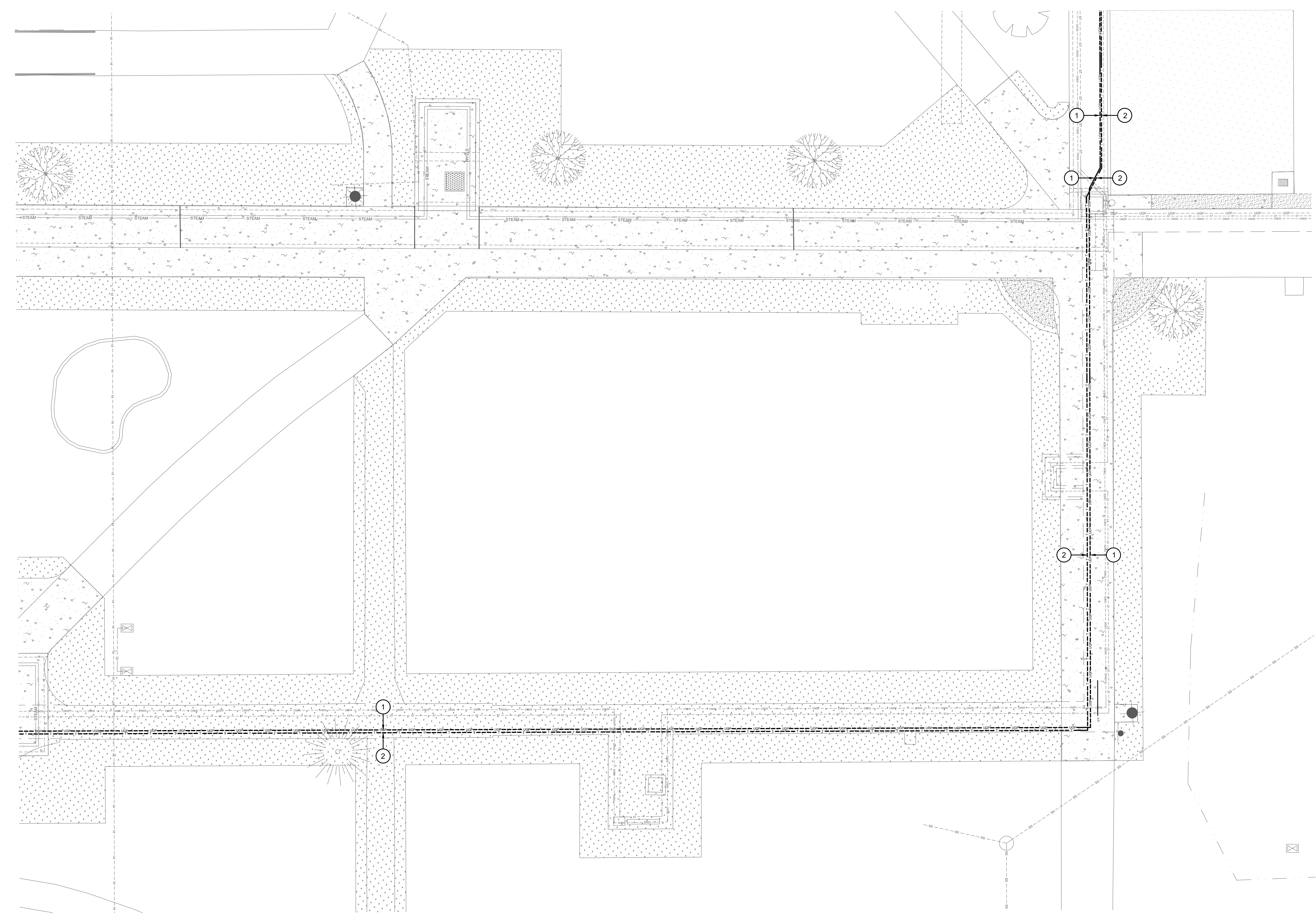


**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING PRIMARY POWER LINE TO BE REMOVED. IDAHO POWER SHALL REMOVE PRIMARY POWER CONDUCTORS. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN.
- 2. EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301

**GENERAL NOTES:**

- 1. MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS. CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL. CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.



**1 DEMOLITION PLAN**  
 1" = 10'-0"

NO.	REVISIONS	DATE

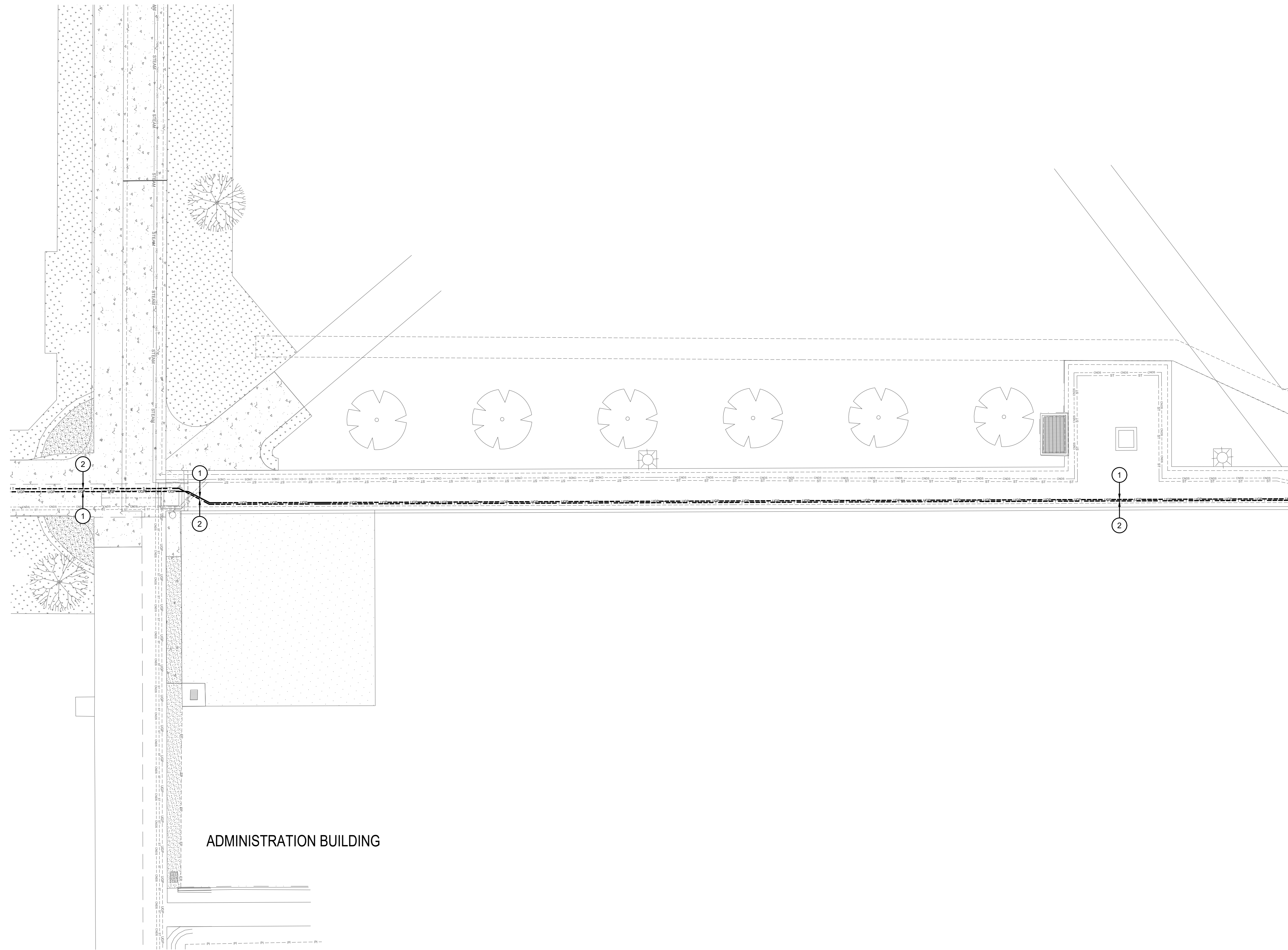
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IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

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 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO. 208106-088  
 SHEET NO. ED103



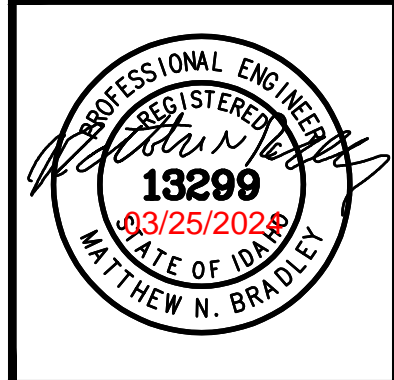
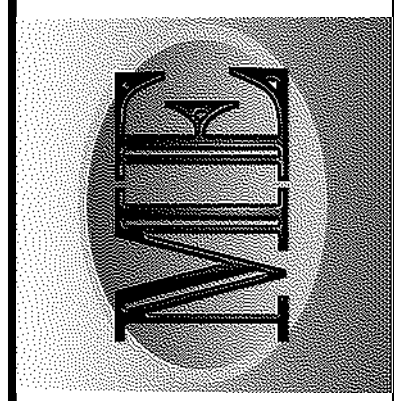


ADMINISTRATION BUILDING

**1** DEMOLITION PLAN  
1" = 10'-0"

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DPW PROJECT #21-654  
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IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

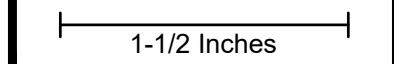
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- EXISTING POWER LINE TO BE REMOVED. IDAHO POWER SHALL REMOVE PRIMARY POWER CONDUCTORS. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN.
  - EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301


**GENERAL NOTES:**

- MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS. CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL. CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.

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 PROJECT NO. 208106-088  
 SHEET NO. ED104







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PROJECT NO. 22-359



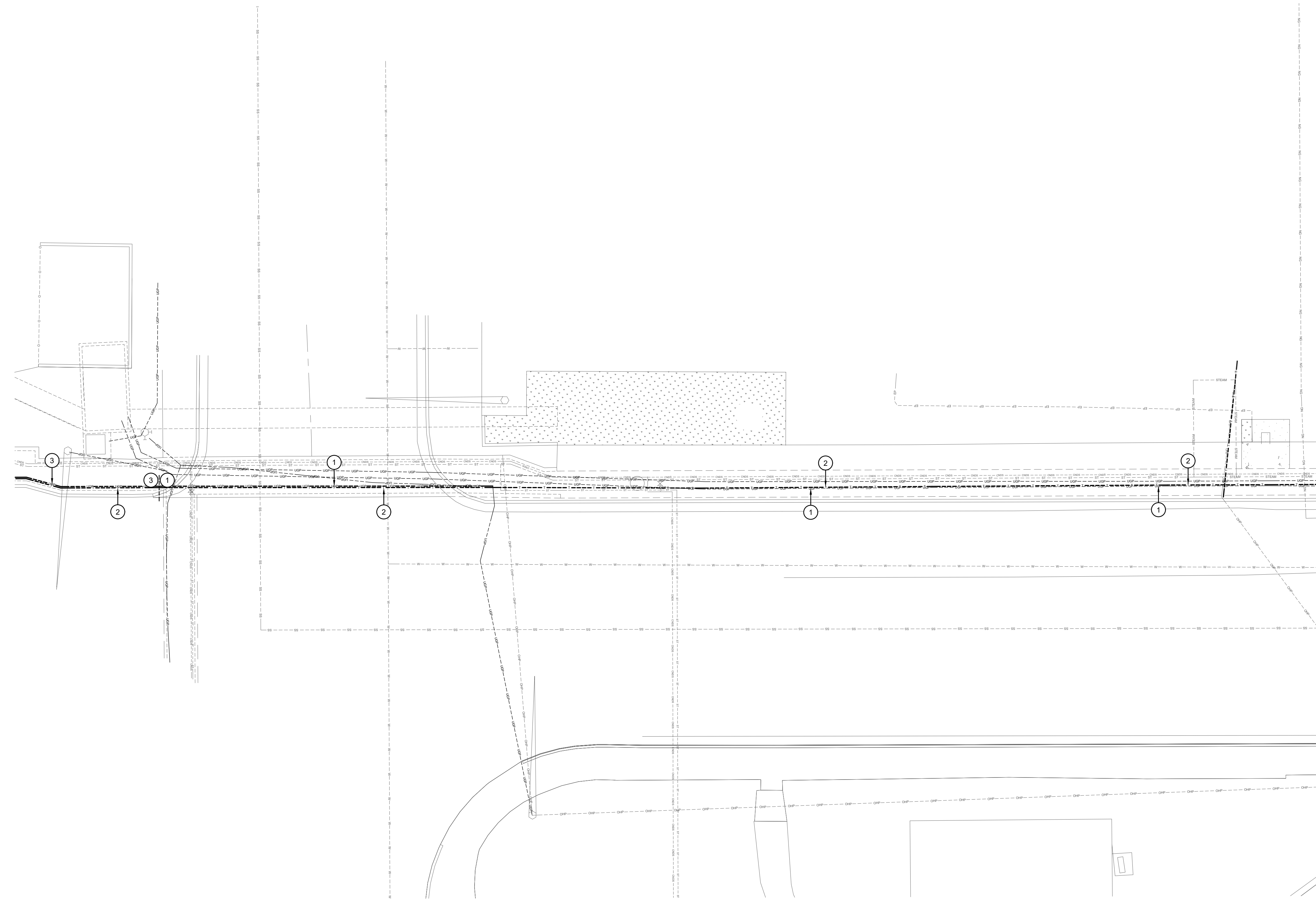
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(208) 238-2146

**KEYED NOTES:**

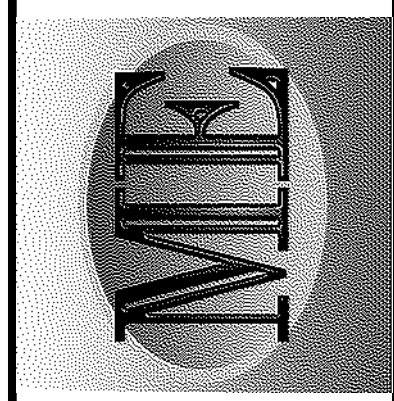
- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING IDAHO POWER PRIMARY POWER LINE TO REMAIN.
- 2. EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301.
- 3. EXISTING POWER LINE TO BE REMOVED TO K VAULT. IDAHO POWER SHALL REMOVE PRIMARY POWER CONDUCTORS. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN.

**GENERAL NOTES:**

- 1. MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS, CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL, CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.



**1 DEMOLITION PLAN**  
1" = 10'-0"



NO.	REVISIONS	DATE

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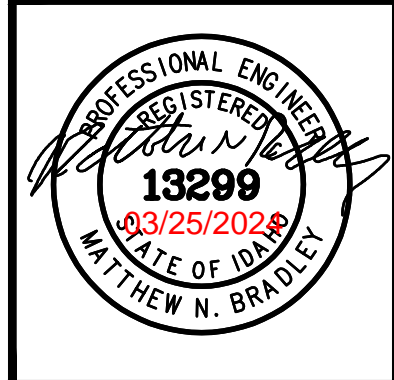
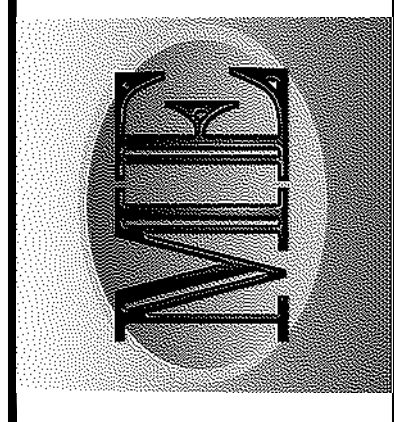
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO. 208106-088  
SHEET NO. ED105





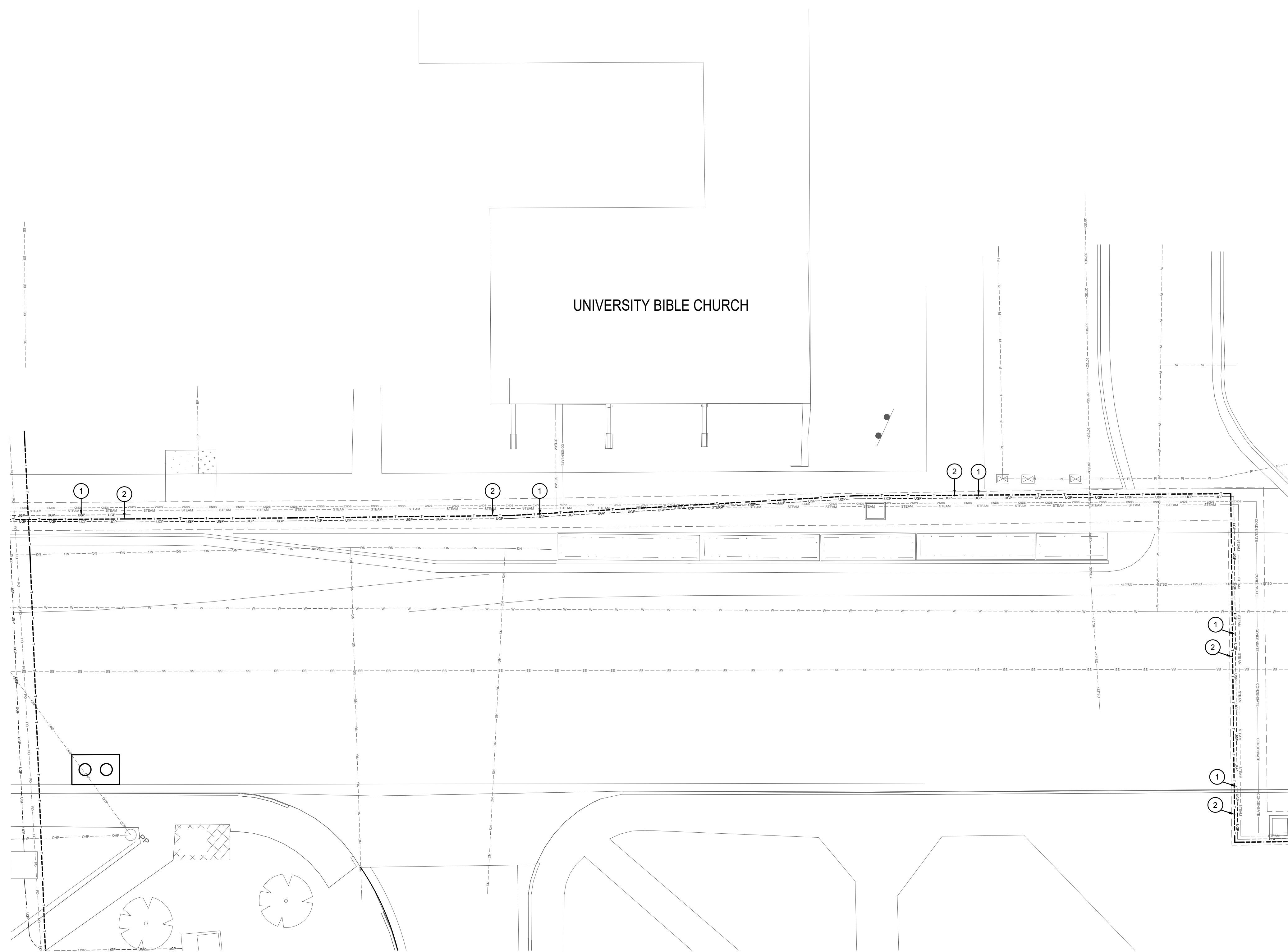
NO.	REVISIONS	DATE


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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO.  
208106-088  
SHEET NO.  
ED106



 1 DEMOLITION PLAN  
1" = 10'-0"

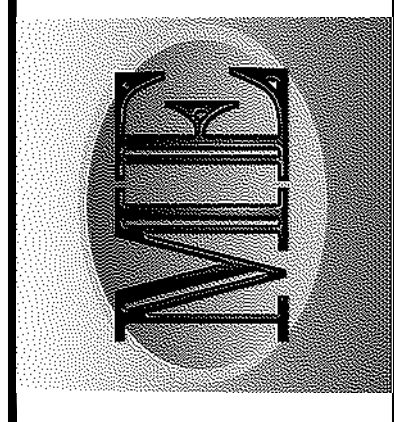
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING IDAHO POWER PRIMARY POWER LINE TO REMAIN.
- 2. EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301.

**GENERAL NOTES:**

- 1. MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS, CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL, CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.





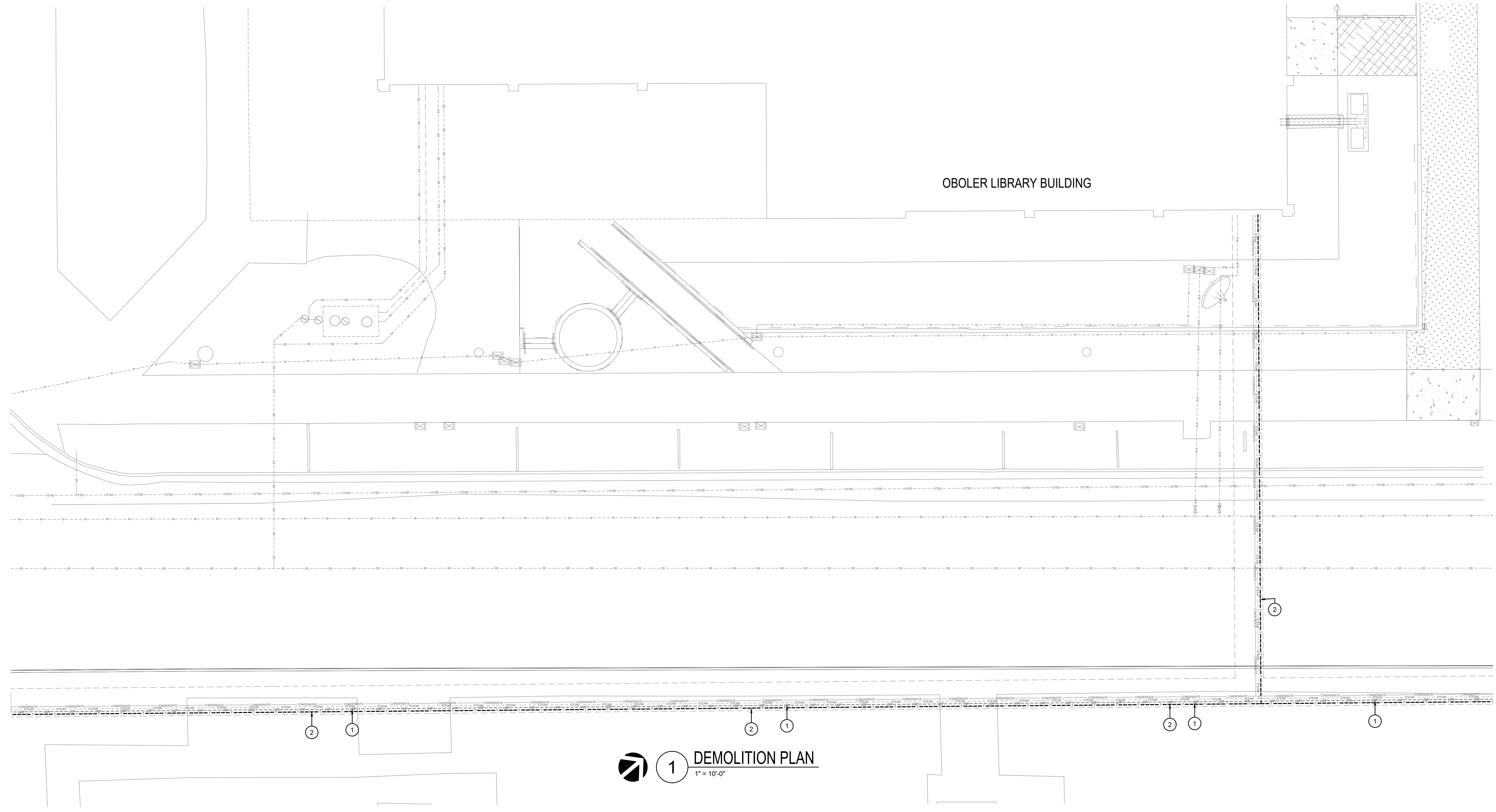
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. ED107



**1** DEMOLITION PLAN  
 1" = 10'-0"

**GENERAL NOTES:**

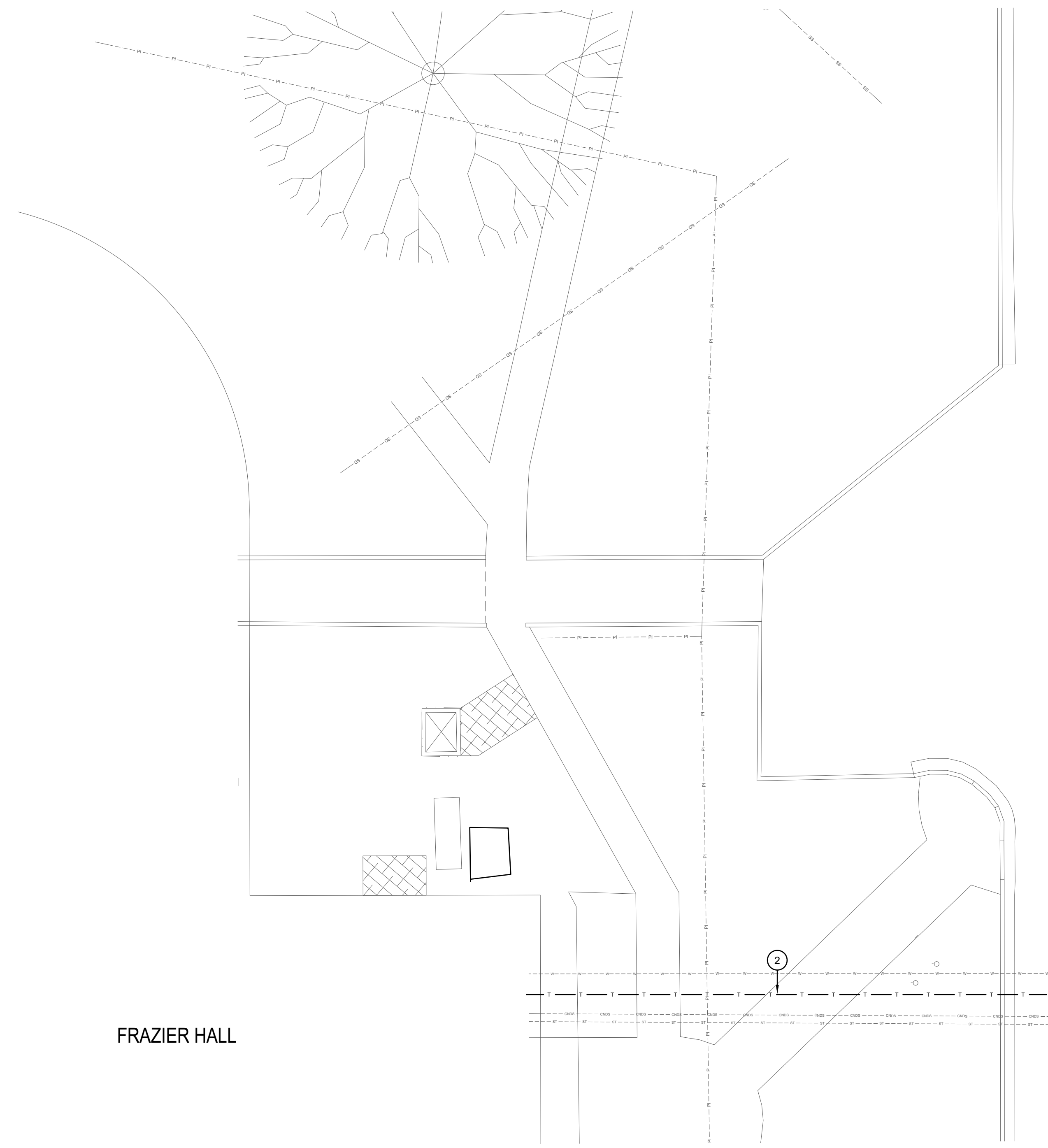
- MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS. CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL. CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING IDAHO POWER PRIMARY POWER LINE TO REMAIN.
- 2. EXISTING FIBER OPTIC AND TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301.

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. ED107



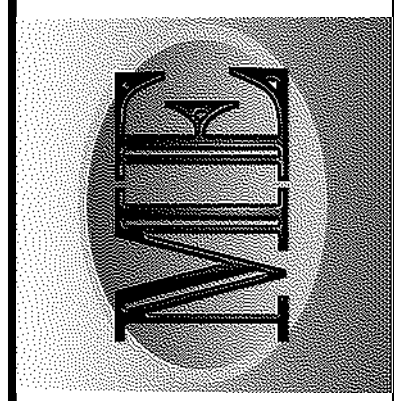


FRAZIER HALL

**1** DEMOLITION PLAN  
1" = 10'-0"

**MUSGROVE ENGINEERING, P.A.**  
 234 S. Whisperwood Way  
 Boise, ID 83709  
 208.384.6385  
 645 West 25th Street  
 Idaho Falls, ID 83402  
 208.523.2862  
 www.musgrovepa.com  
 PROJECT NO. 22-359

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146



**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING POWER LINE TO BE REMOVED. IDAHO POWER SHALL REMOVE PRIMARY POWER CONDUCTORS. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN.
- 2. EXISTING TELEPHONE LINE TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL CONDUIT, CONDUCTORS, CABLE TRAY, CABLE TRAY SUPPORTS, JUNCTION BOXES AND OTHER ELECTRICAL RACEWAYS AND COMPONENTS BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. SEE DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM ON DRAWING E301.

**GENERAL NOTES:**

- 1. MULTIPLE TELEPHONE AND COMMUNICATIONS LINES IN THE TUNNELS, CONTACT CHRIS OLSEN WITH NETCOM FOR COORDINATION OF REMOVAL. CONTRACTOR SHALL REMOVE AND DISPOSE OF CABLES REMOVED.



NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 DEMOLITION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO. 208106-088  
 SHEET NO. ED108

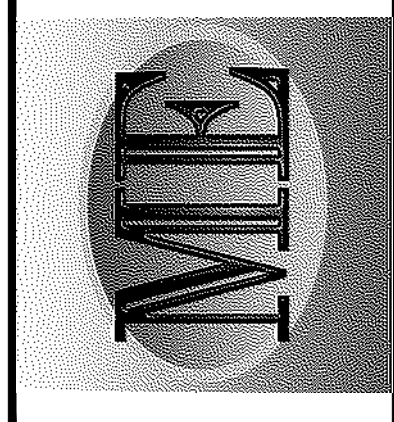




**MUSGROVE  
ENGINEERING, P.A.**  
234 S. Whisperwood Way  
Boise, ID 83709  
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645 West 25th Street  
Idaho Falls, ID 83402  
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www.musgrovepa.com  
PROJECT NO. 22-359



**KELLER  
ASSOCIATES**  
305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146




PROFESSIONAL ENGINEER  
REGISTERED  
13299  
03/25/2028  
STATE OF IDAHO  
MATTHEW N. BRADLEY

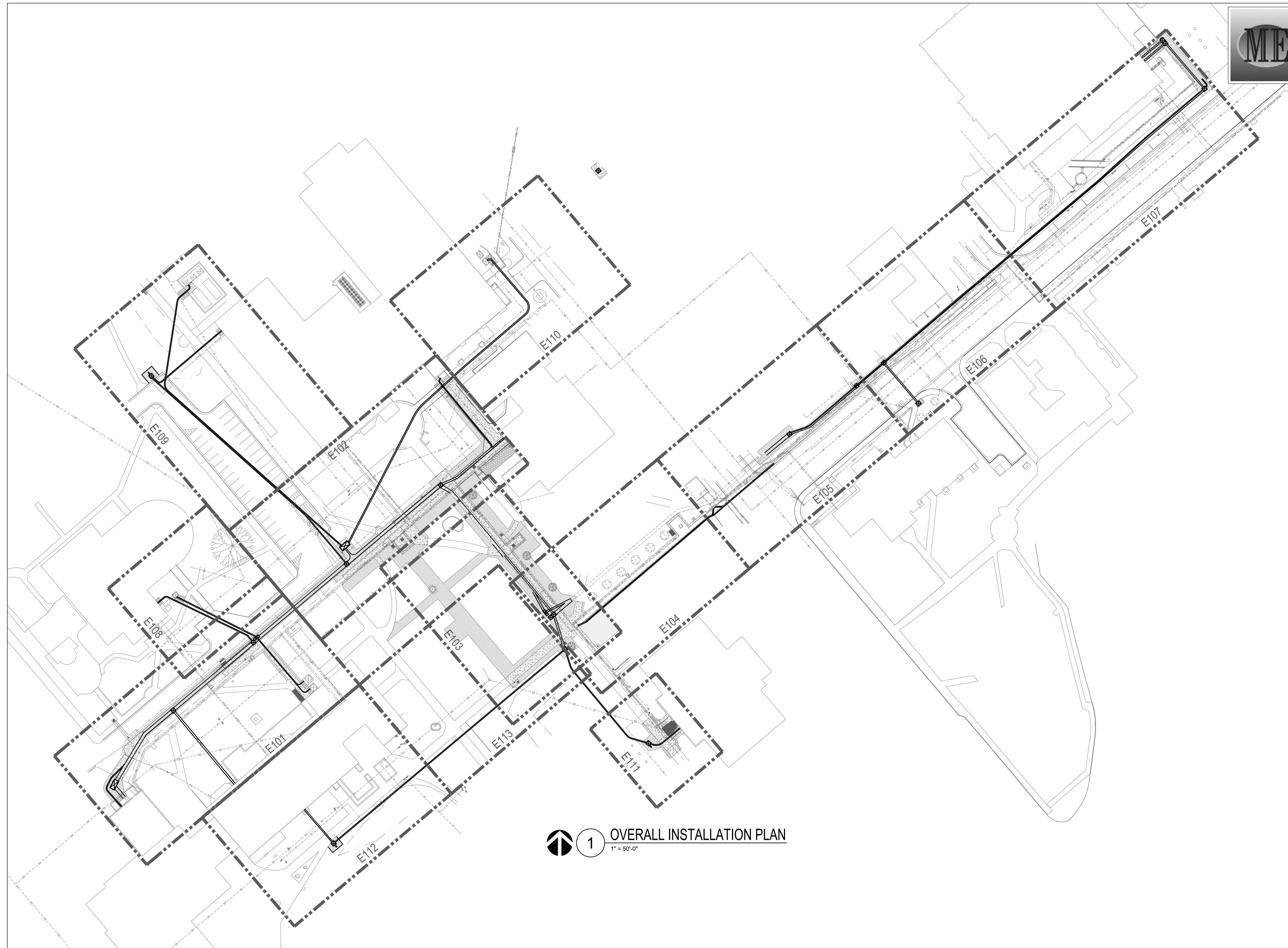
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

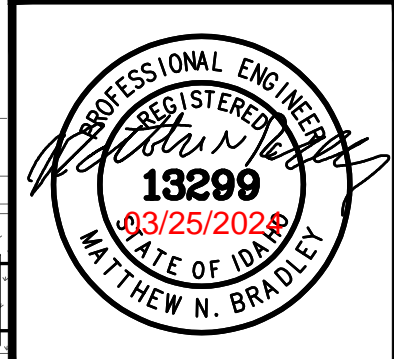
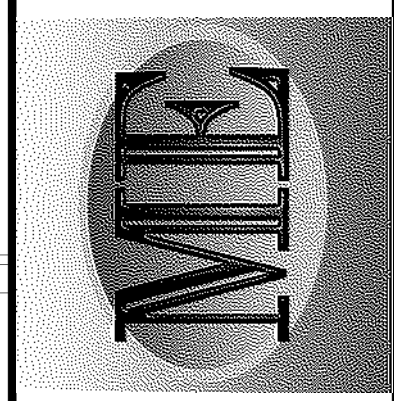
IDAHO STATE UNIVERSITY  
OVERALL INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO.  
208106-088  
SHEET NO.  
**E100**



 **1** OVERALL INSTALLATION PLAN  
1" = 50'-0"





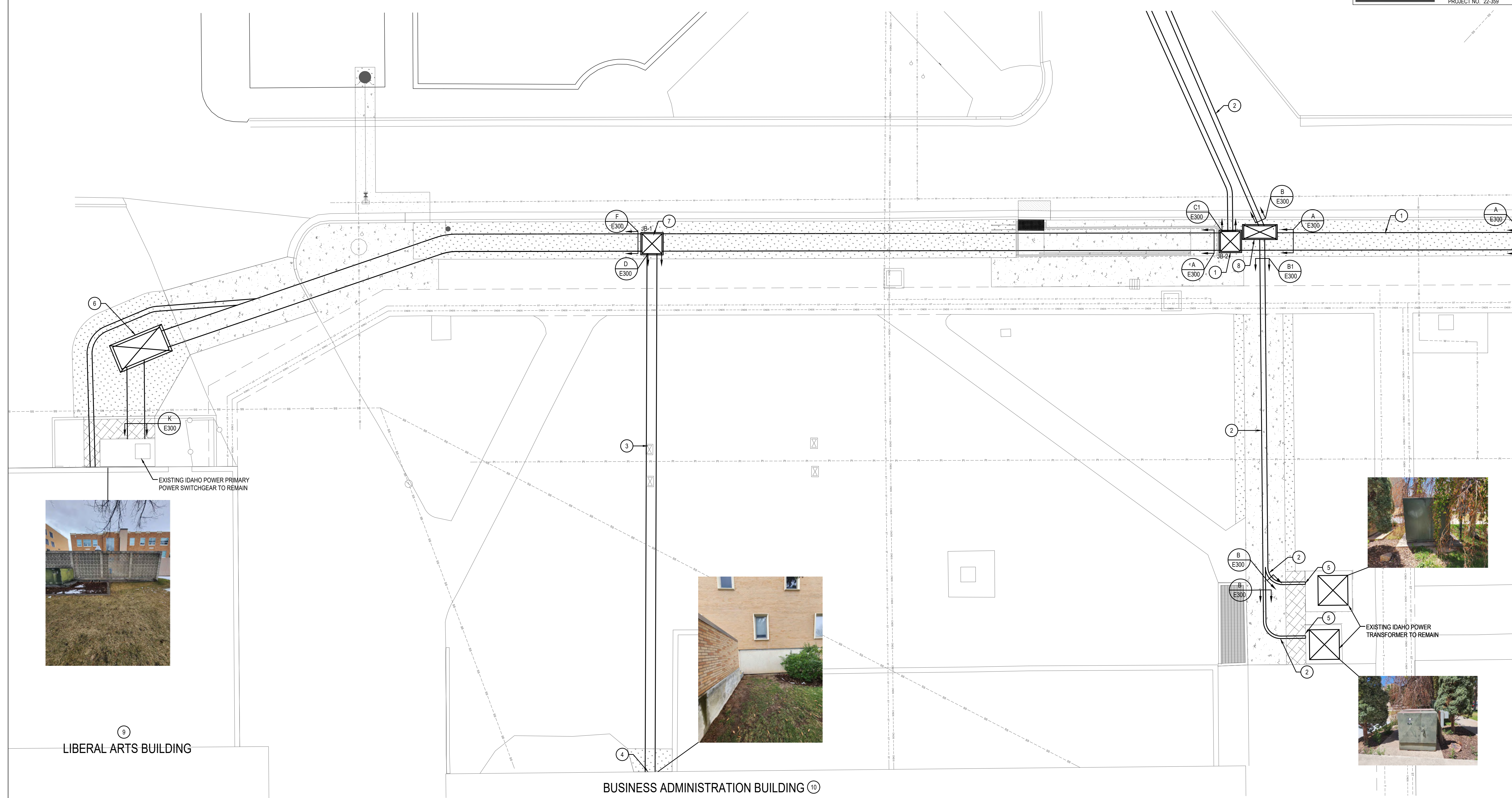
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E101



9 LIBERAL ARTS BUILDING



10 BUSINESS ADMINISTRATION BUILDING



EXISTING IDAHO POWER TRANSFORMER TO REMAIN



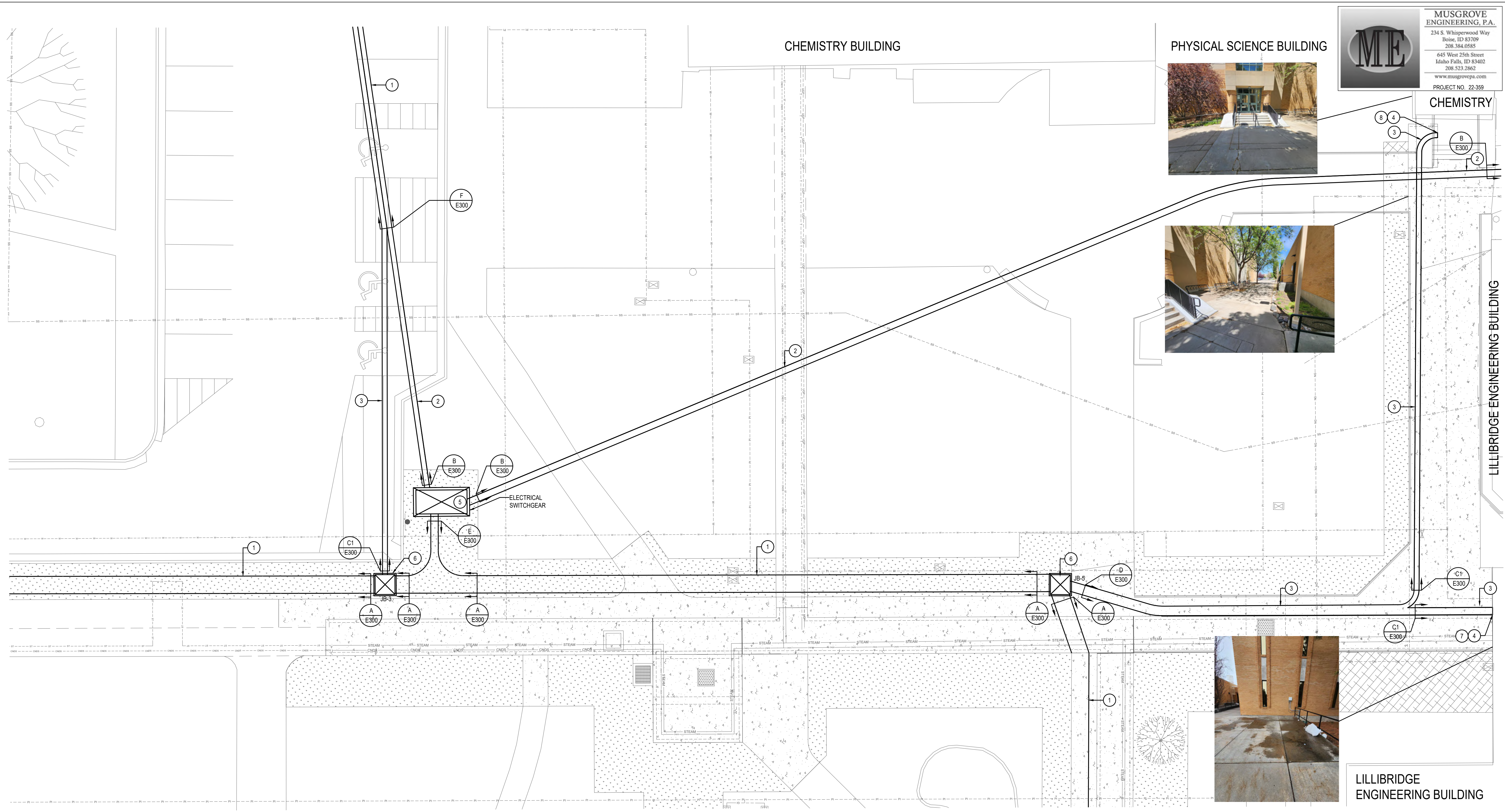
**KEYED NOTES:**

# SYMBOL USED FOR NOTE CALLOUT.

- COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- INSTALL 48"x48"x12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO CORE. DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
- NEW IDAHO POWER SWITCHGEAR VAULT PROVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL B ON DRAWING E302. SWITCHGEAR INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
- COMMUNICATIONS JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.
- NEW IDAHO POWER SECTIONALIZING CABINET VAULT PROVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL A ON DRAWING E302. SECTIONALIZING CABINET INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
- SEE DRAWING E402 FOR LIBERAL ARTS FLOOR PLAN.
- SEE DRAWING E403 FOR BUSINESS ADMINISTRATION FLOOR PLAN.

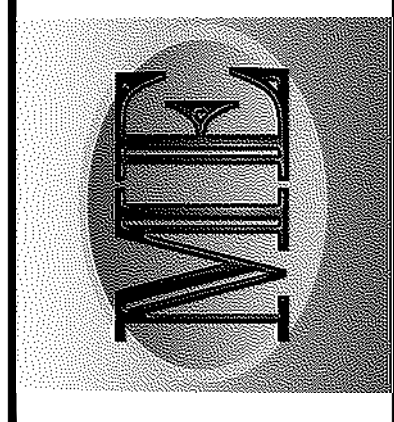
**1 INSTALLATION PLAN**  
 1" = 10'-0"





**MUSGROVE ENGINEERING, P.A.**  
 234 S. Whisperwood Way  
 Boise, ID 83709  
 208.384.0585  
 645 West 25th Street  
 Idaho Falls, ID 83402  
 208.523.2862  
 www.musgrovepa.com  
 PROJECT NO. 22-359

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146



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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

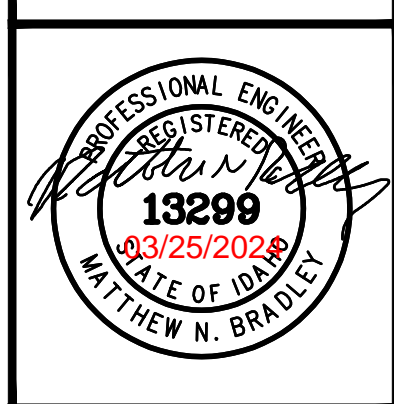
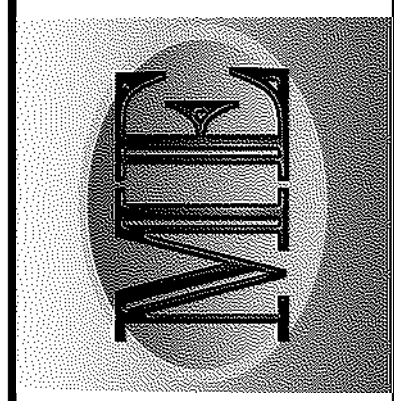
**1 INSTALLATION PLAN**  
 1" = 10'-0"

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 3. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 4. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 5. NEW IDAHO POWER SWITCHGEAR VAULT PROVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL B ON DRAWING E302. SWITCHGEAR INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
- 6. COMMUNICATIONS JUNCTION BOX, 48"X48"X36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.
- 7. SEE DRAWING E404 LILLIBRIDGE FLOOR PLAN.
- 8. SEE DRAWING E401 FOR CHEMISTRY FLOOR PLAN.

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 1-1/2 Inches  
 PROJECT NO. 208106-088  
 SHEET NO. E102





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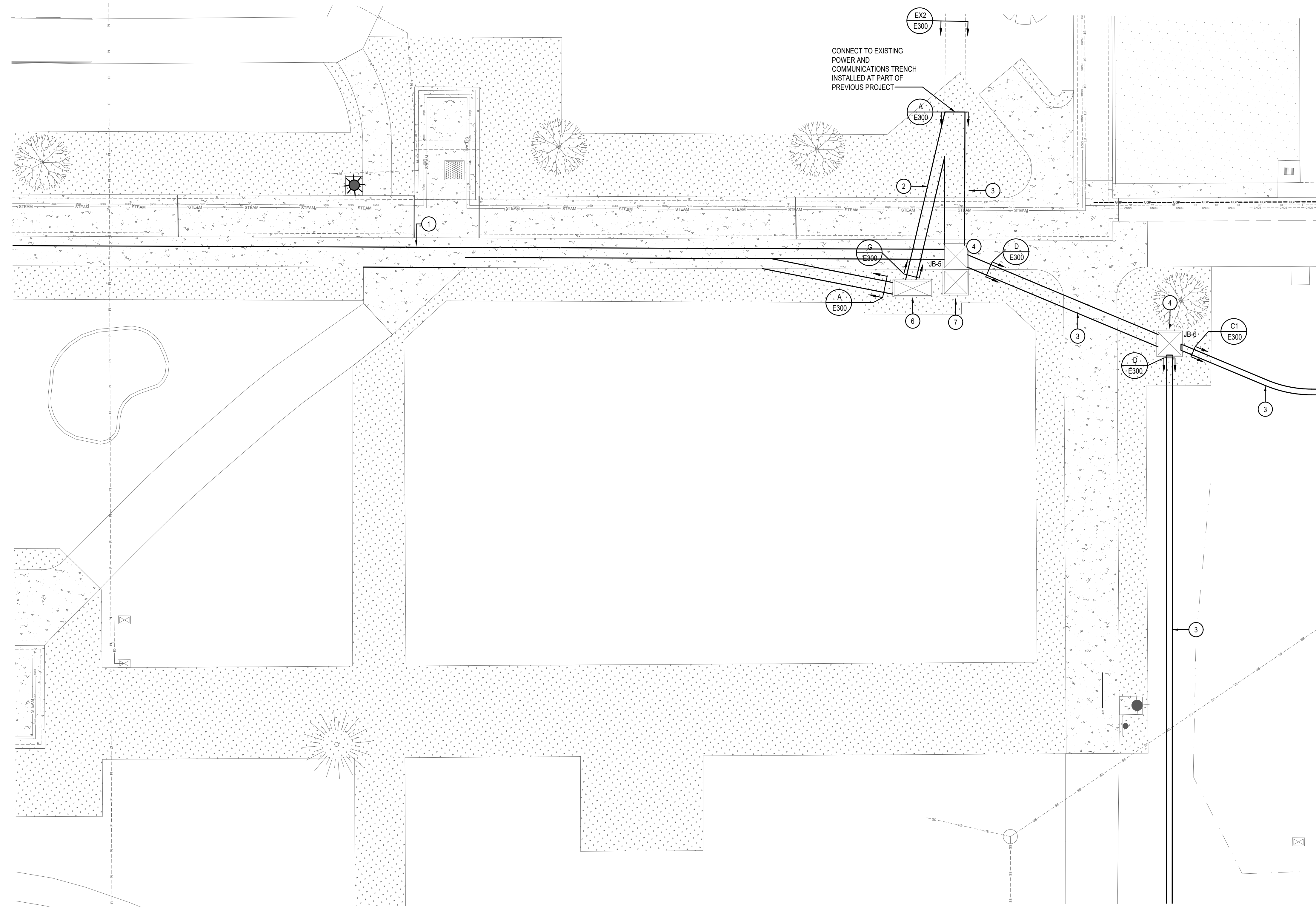
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E103


**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 3. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 4. COMMUNICATIONS JUNCTION BOX, 48"x48"x36" OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL, QUAZITE PG4848BA36 OR EQUAL.
- 5. CONNECT TO EXISTING POWER AND COMMUNICATIONS TRENCH INSTALLED AT PART OF PREVIOUS PROJECT
- 6. NEW IDAHO POWER SECTIONALIZING CABINET VAULT PROVIDED BY IDAHO POWER INSTALLED BY CONTRACTOR. SEE DETAIL A ON DRAWING E302. SECTIONALIZING CABINET INSTALLATION AND PRIMARY CONDUCTOR TERMINATION BY IDAHO POWER.
- 7. LUMEN JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL, QUAZITE PG4848BA36 OR EQUAL.



**1** INSTALLATION PLAN  
 1" = 10'-0"

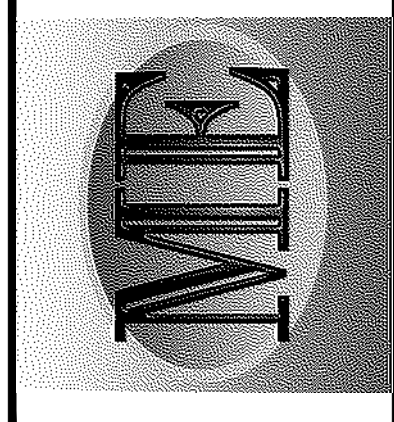




MUSGROVE  
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234 S. Whisperwood Way  
Boise, ID 83709  
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645 West 25th Street  
Idaho Falls, ID 83402  
208.523.2862  
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PROJECT NO. 22-359



KELLER  
ASSOCIATES  
305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146



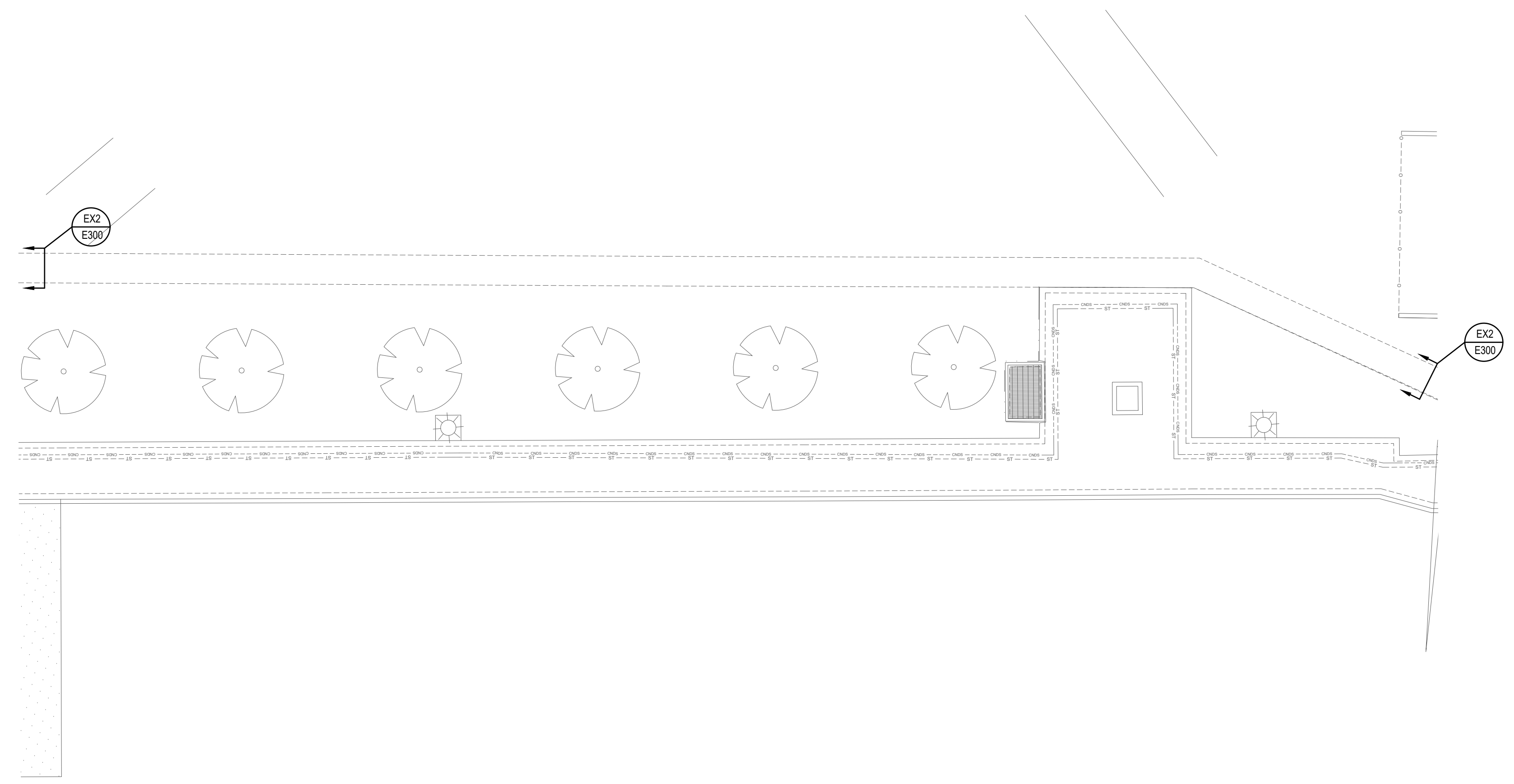
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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
INSTALLATION PLAN

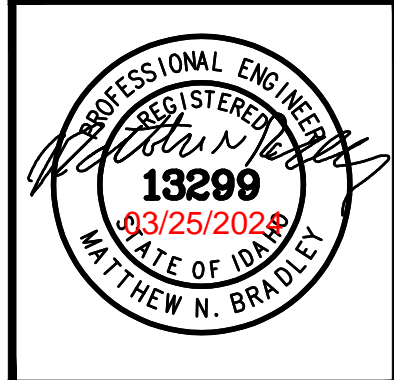
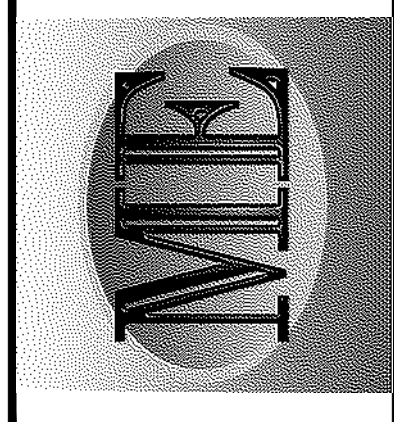
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VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. E104



ADMINISTRATION BUILDING

 **1** INSTALLATION PLAN  
1" = 10'-0"





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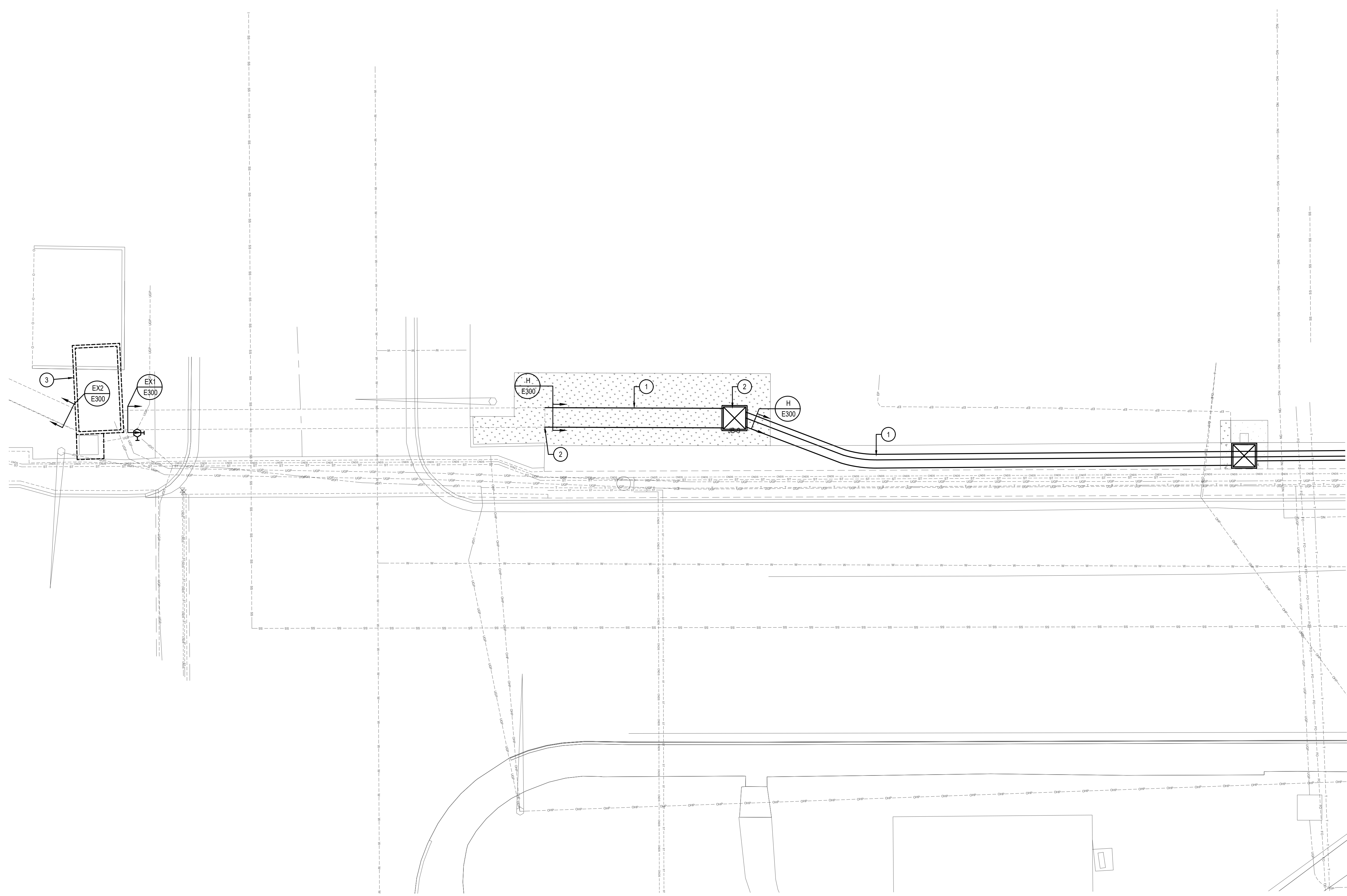
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. E105

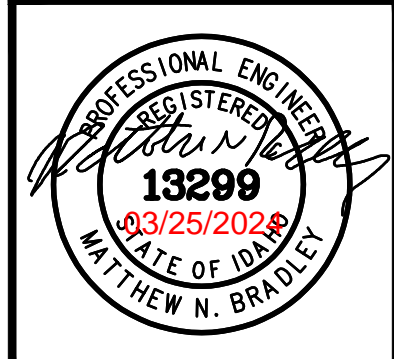
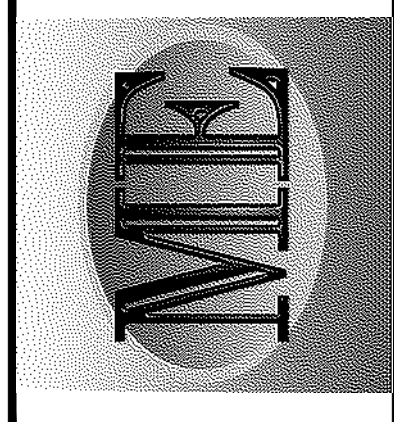
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. COMMUNICATIONS JUNCTION BOX. 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.
- 3. EXISTING IDAHO POWER SWITCHGEAR "VAULT K" TO REMAIN.



**1** INSTALLATION PLAN  
1" = 10'-0"





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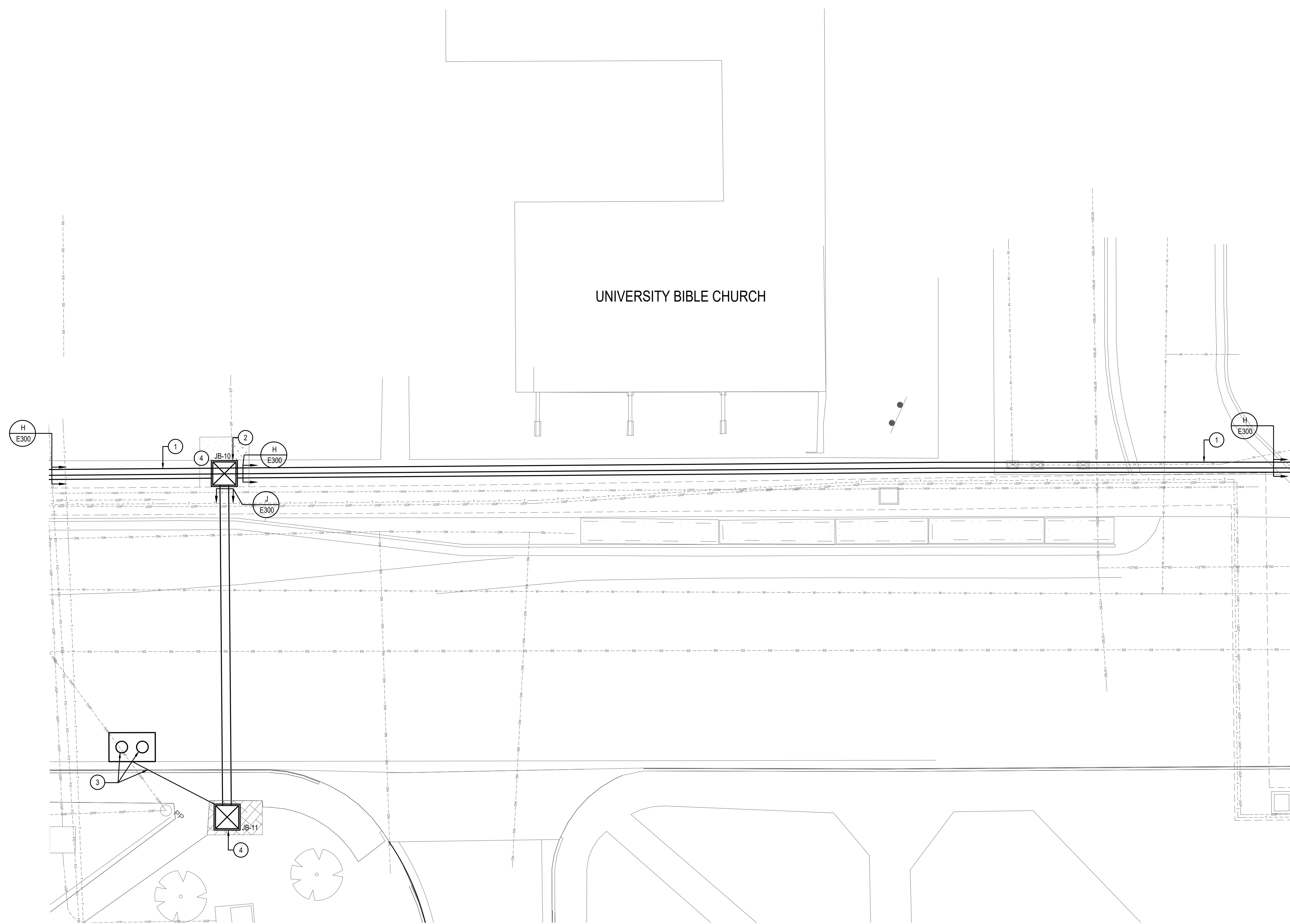
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E106

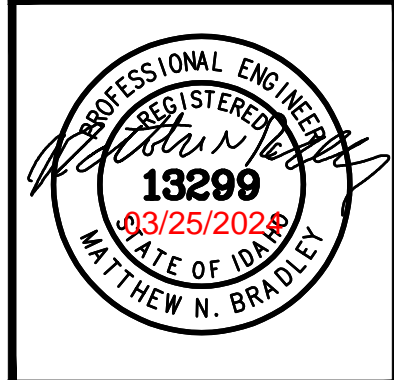
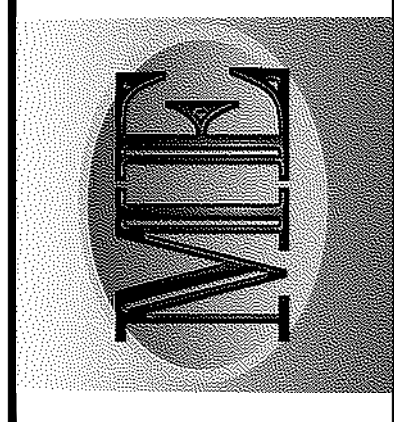
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. COMMUNICATIONS JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.
- 3. EXISTING LUMEN COMMUNICATIONS VAULTS I N STREET. LUMEN SHALL EXTEND FROM LUMEN COMMUNICATIONS VAULT INTO NEW 48"x48"x36" COMMUNICATIONS JUNCTION BOX. INSTALL NEW 48"x48"x36" COMMUNICATIONS JUNCTION BOX. IN GRASS AREA OUTSIDE OF DENTAL ARTS BUILDING AT BACK OF SIDEWALK.
- 4. LUMEN JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.



**1** INSTALLATION PLAN  
 1" = 10'-0"





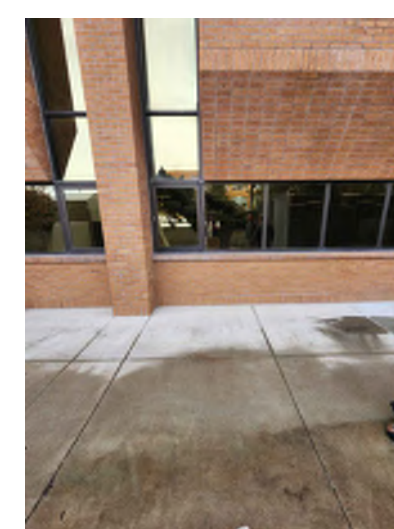
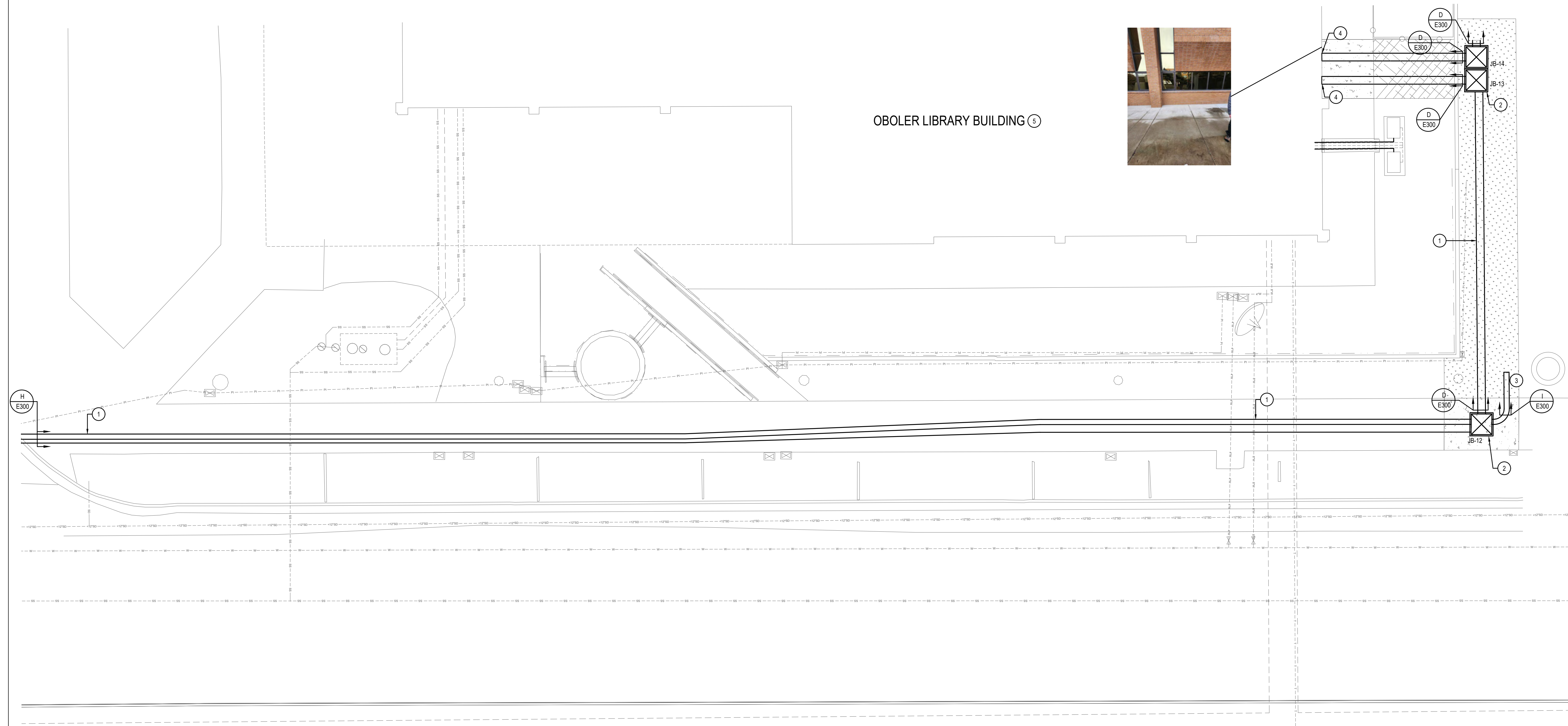
NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E107



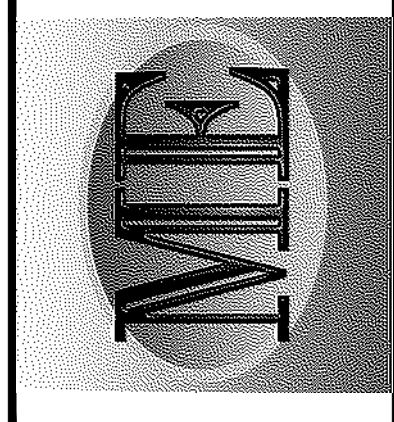
**1** INSTALLATION PLAN  
 1" = 10'-0"

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. COMMUNICATIONS JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL QUAZITE PG4848BA36 OR EQUAL.
- 3. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS. END POWER CONDUIT 2 FEET NORTH OF BACK OF SIDEWALK FOR FUTURE CONNECTION.
- 4. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM BATTERY ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 5. SEE DRAWING E406 FOR OBOLER LIBRARY FLOOR PLAN.

1-1/2 Inches





NO.	REVISIONS	DATE

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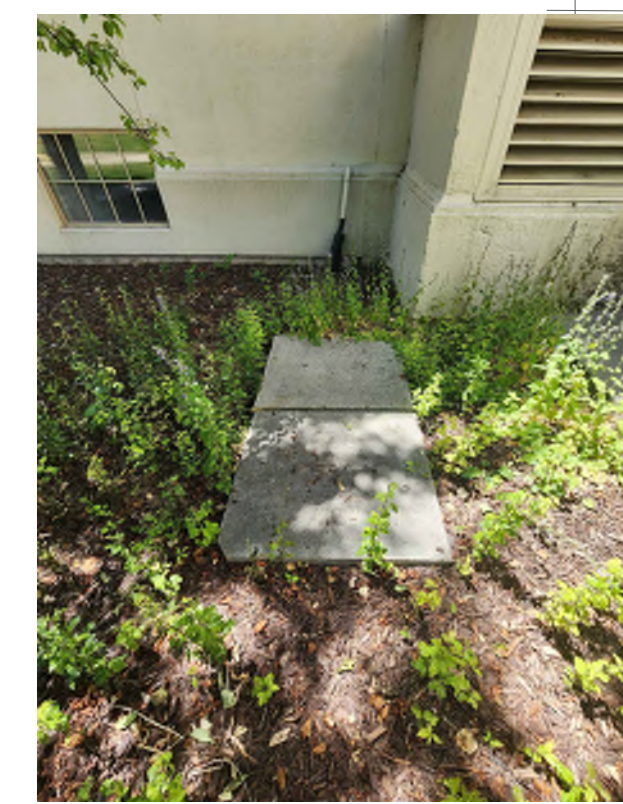
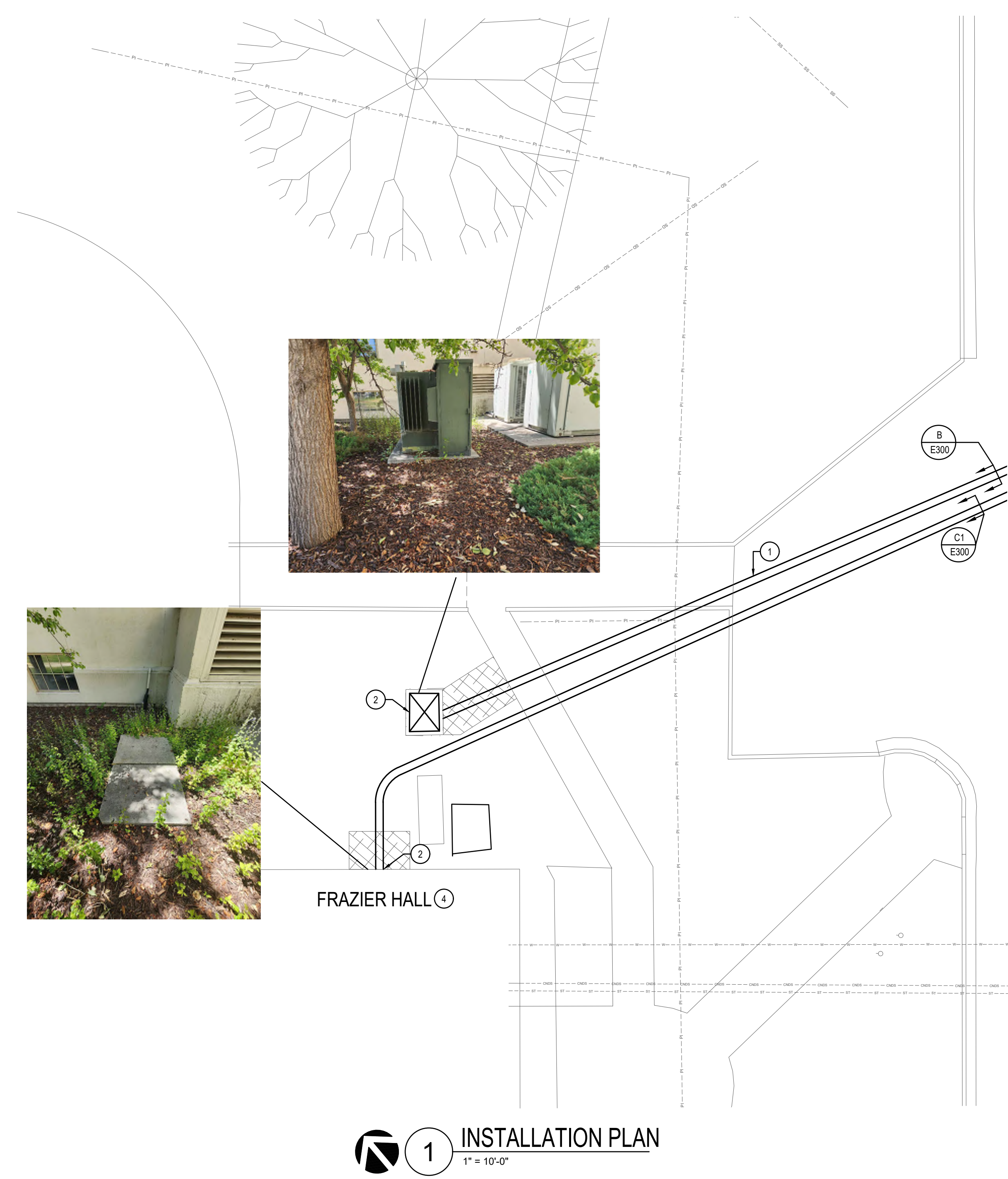
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E108

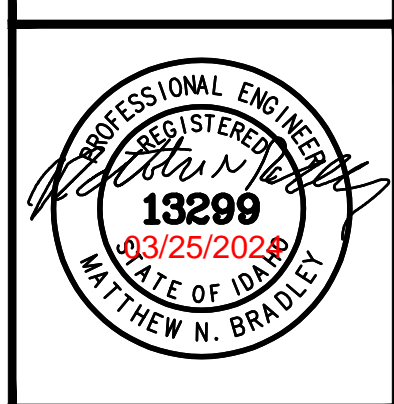
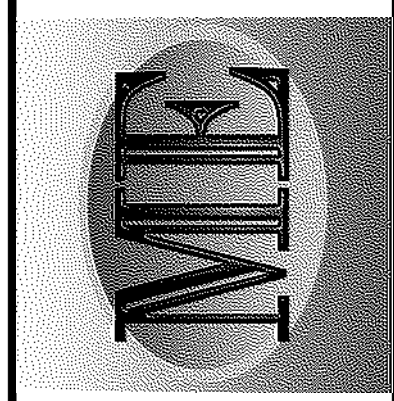
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
- 3. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 4. SEE DRAWING E400 FOR FRAZIER HALL BUILDING FLOOR PLAN.



1-1/2 Inches





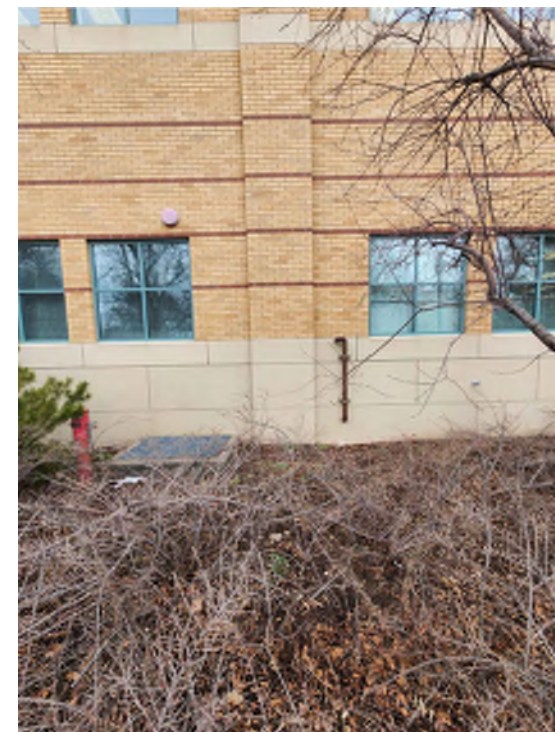
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E109



CHEMISTRY BUILDING ⑦

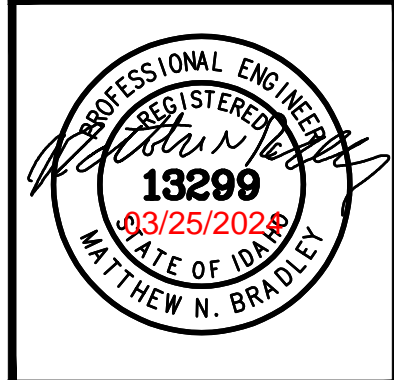
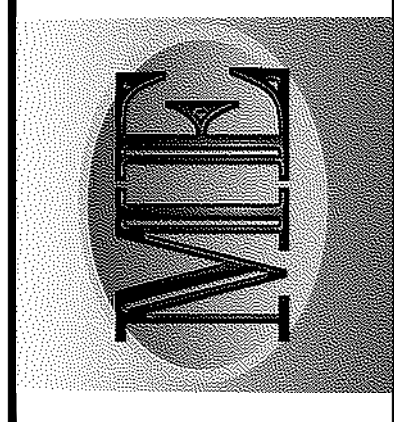


① **INSTALLATION PLAN**  
 1" = 10'-0"

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 3. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 4. INSTALL 48"x48"x12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 5. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.
- 6. COMMUNICATIONS JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.
- 7. SEE DRAWING E401 FOR CHEMISTRY BUILDING FLOOR PLAN.





NO.	REVISIONS	DATE

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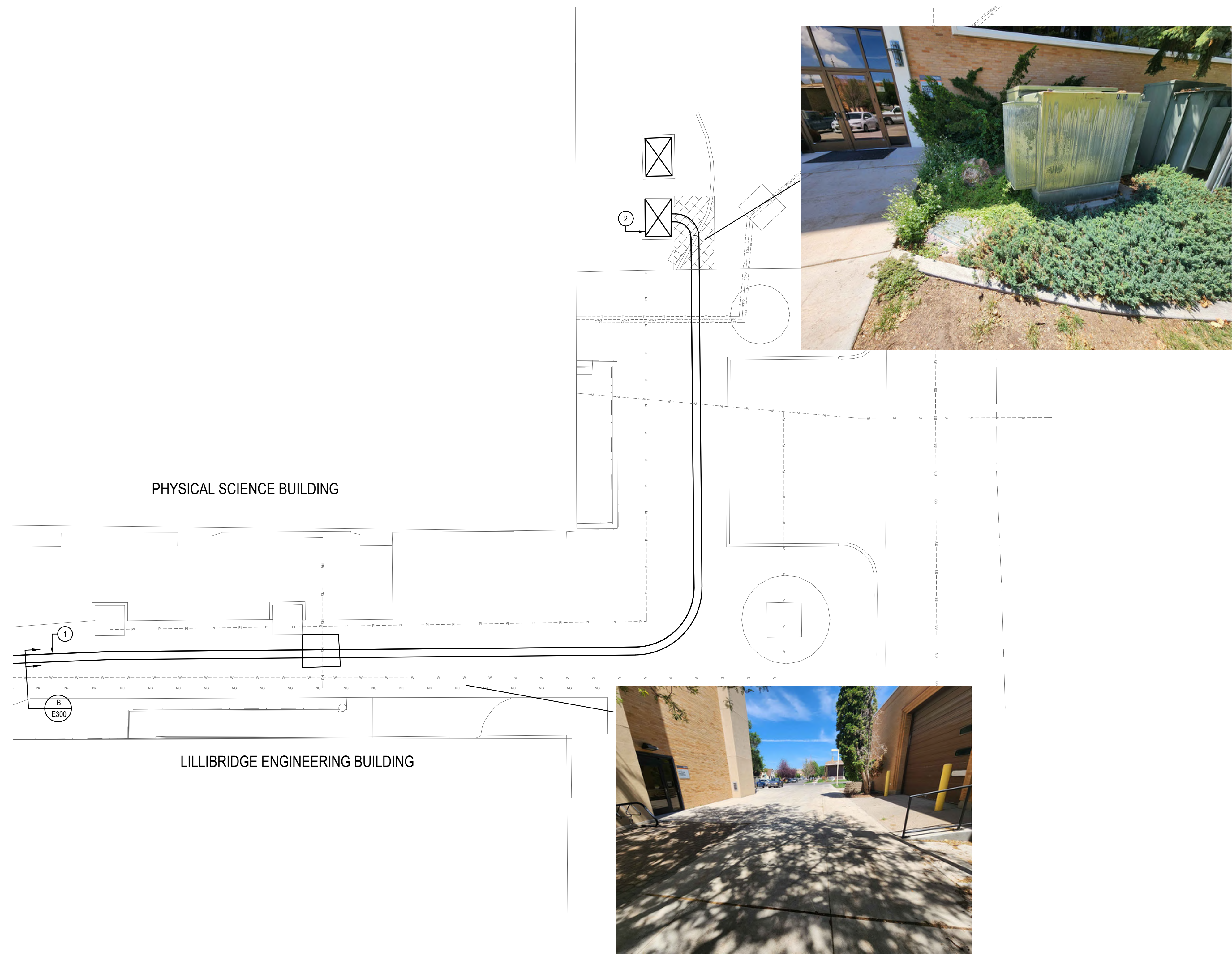
DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

IDAHO STATE UNIVERSITY  
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO.  
208106-088  
SHEET NO.  
E110

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. UNDERMINE EXISTING TRANSFORMER PAD AND NEW STUB PRIMARY POWER CONDUIT INTO PRIMARY POWER COMPARTMENT. PRIMARY CONDUCTOR INSTALLATION AND TERMINATION BY IDAHO POWER.

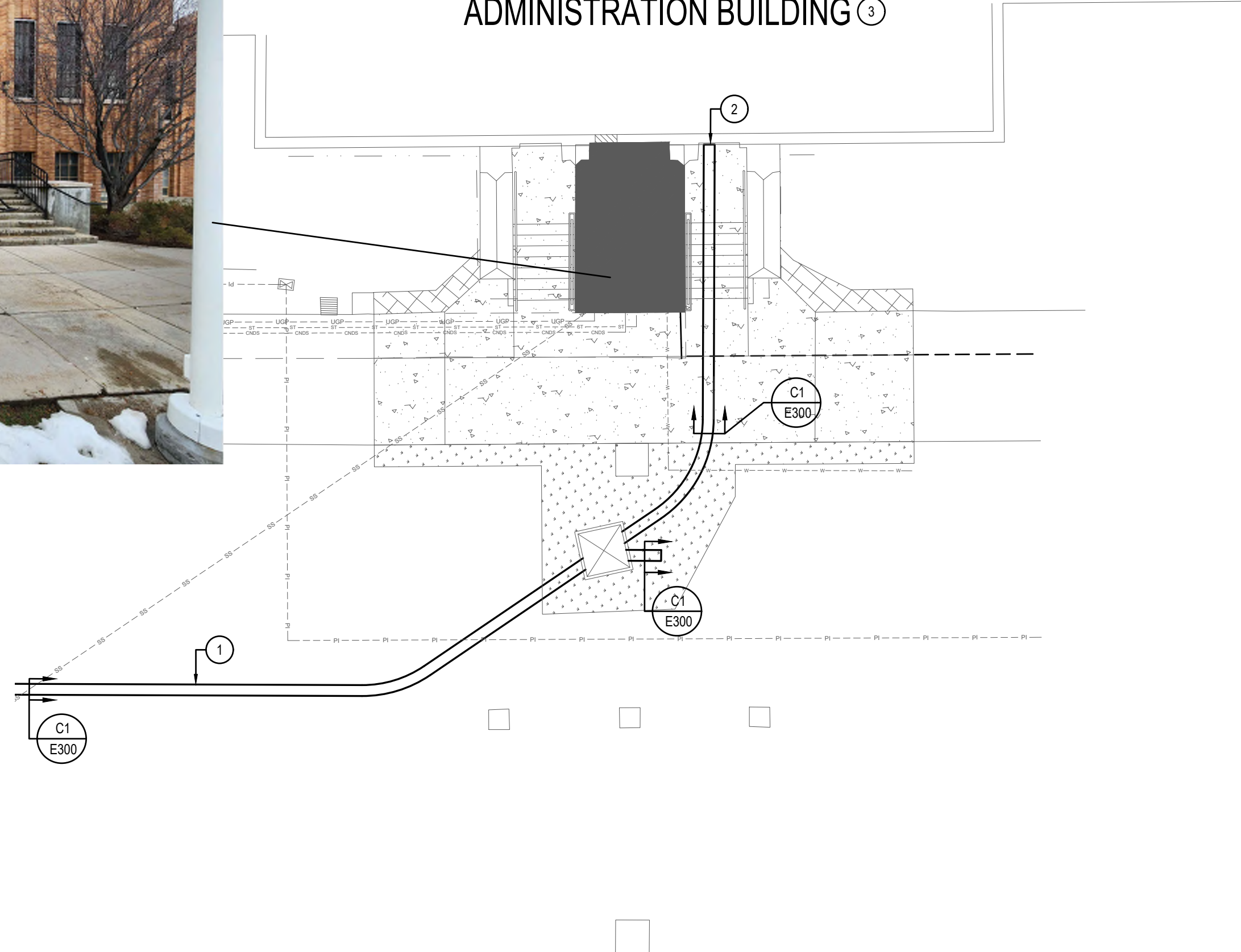


**1** INSTALLATION PLAN  
1" = 10'-0"





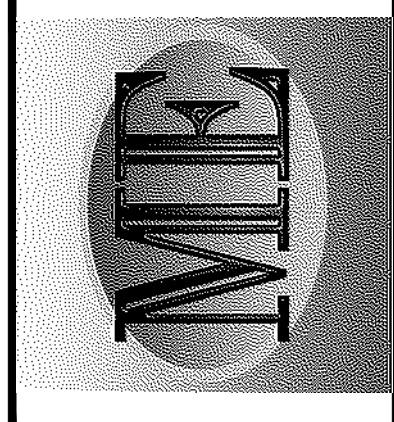
ADMINISTRATION BUILDING ③



1 INSTALLATION PLAN  
1" = 10'-0"

**MUSGROVE ENGINEERING, P.A.**  
 234 S. Whisperwood Way  
 Boise, ID 83709  
 208.384.6385  
 645 West 25th Street  
 Idaho Falls, ID 83402  
 208.523.2862  
 www.musgrovepa.com  
 PROJECT NO. 22-359

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146



**KEYED NOTES:**

- ① SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. INSTALL 48"x48"x12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO CORE DRILL 4" CONDUITS THROUGH WALL INTO STORAGE ROOM UNDER STAIRS AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 3. SEE DRAWING E405 FOR ADMINISTRATION BUILDING FLOOR PLAN.

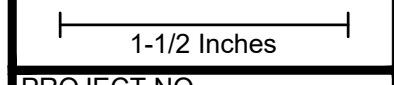
NO.	REVISIONS	DATE

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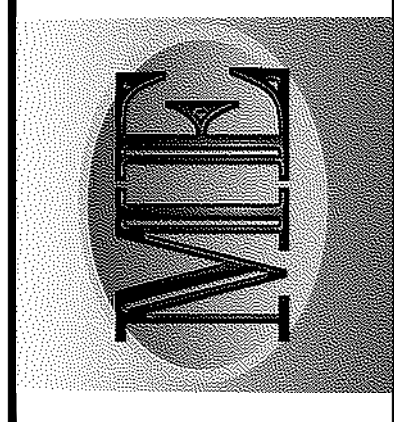
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E111







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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E112

LIBERAL ARTS BUILDING

HYPOSTYLE

BUSINESS ADMINISTRATION BUILDING 5



**1** INSTALLATION PLAN  
 1" = 10'-0"

**KEYED NOTES:**

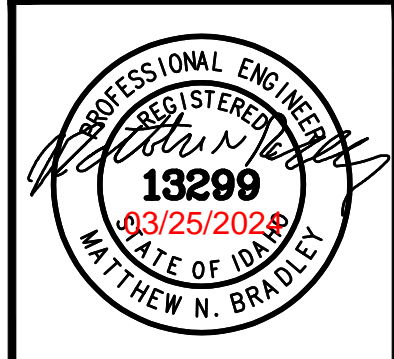
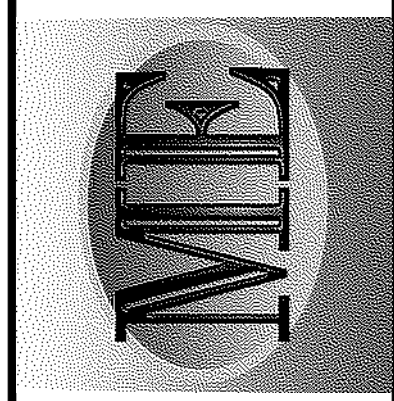
- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. POWER CONDUITS SHALL BE INSTALLED BY APPROVED IDAHO POWER CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.
- 2. INSTALL 48"x48"x12" JUNCTION BOX FOR COMMUNICATIONS CONDUITS TO RISE INTO. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 3. COMMUNICATIONS JUNCTION BOX, 48"x48"x36", OPEN BOTTOM, STRAIGHT SIDES, TIER 22 ANSI / SCTE 77 CERTIFIED WITH BOLT DOWN COVER WITH COMMUNICATIONS LABEL. QUAZITE PG4848BA36 OR EQUAL.
- 4. END COMMUNICATIONS TRENCH 5 FEET SOUTH OF JUNCTION BOX FOR FUTURE EXTENSION.
- 5. SEE DRAWING E403 FOR BUSINESS ADMINISTRATION BUILDING FLOOR PLAN.

1-1/2 Inches



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 208.384.6385  
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 208.523.2862  
 www.musgrovepa.com  
 PROJECT NO. 22-359

**KELLER ASSOCIATES**  
 305 North 3rd Ave, Suite A  
 Pocatello, Idaho 83201  
 (208) 238-2146



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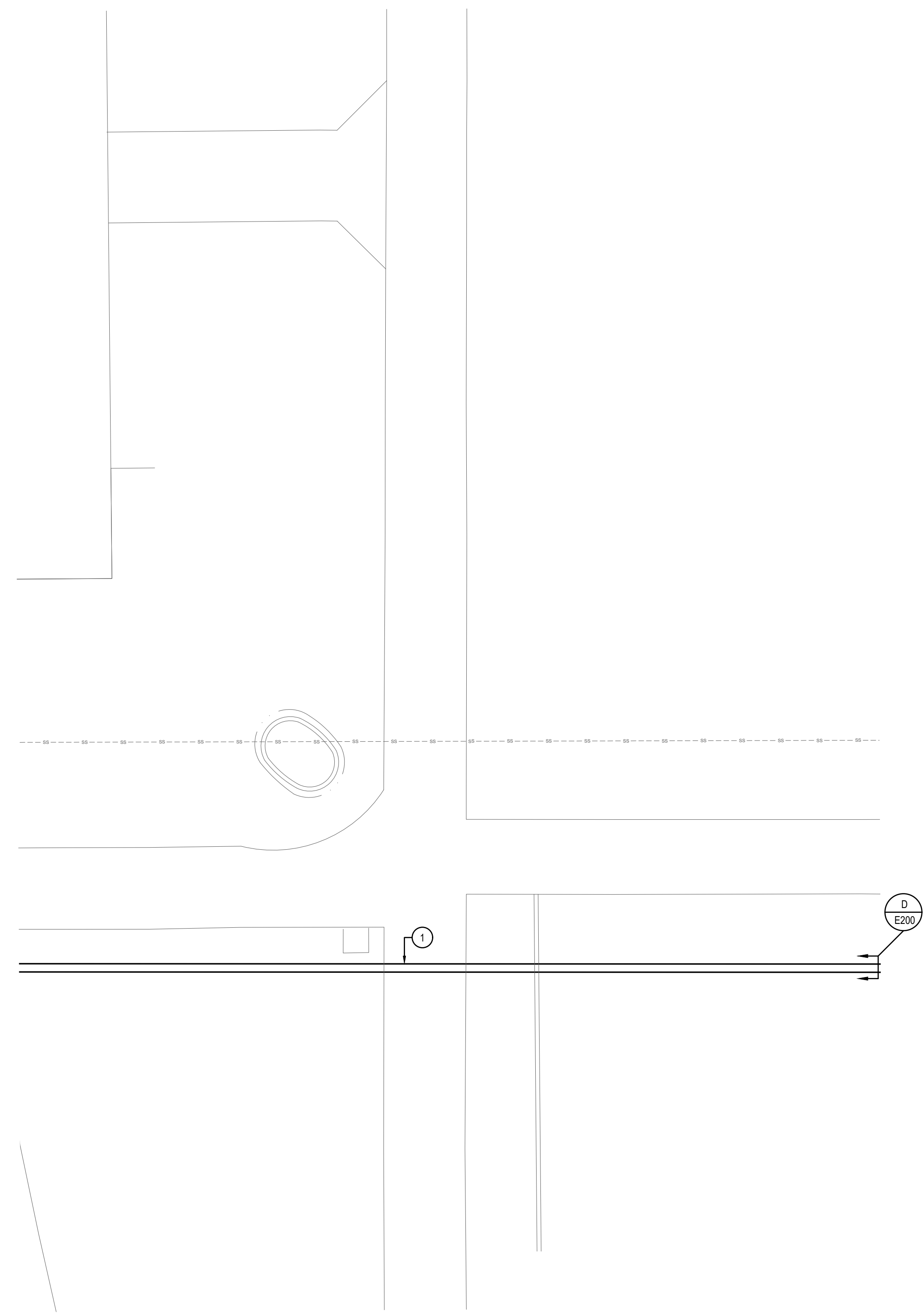
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E113

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. COMMUNICATIONS CONDUITS INSTALLED BY CONTRACTOR. SEE CIVIL DRAWINGS FOR TRENCHING / BORING, BACKFILL AND LANDSCAPE REMEDIATION SPECIFICATIONS.



**1** INSTALLATION PLAN  
 1" = 10'-0"

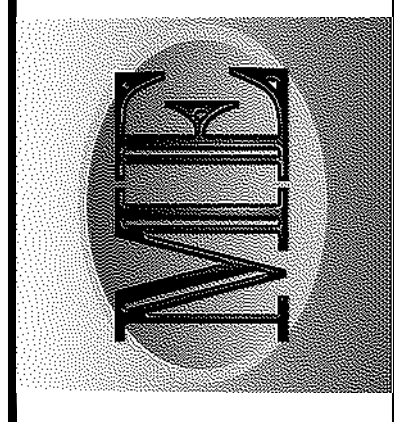
1-1/2 Inches





**MUSGROVE  
ENGINEERING, P.A.**  
234 S. Whisperwood Way  
Boise, ID 83709  
208.384.0385  
645 West 25th Street  
Idaho Falls, ID 83402  
208.523.2862  
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PROJECT NO. 22-359

**KELLER  
ASSOCIATES**  
305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146




PROFESSIONAL ENGINEER  
REGISTERED  
13299  
03/25/2028  
STATE OF IDAHO  
MATTHEW N. BRADLEY

NO.	REVISIONS	DATE

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DPW PROJECT #21-654  
ISU: REPAIR UTILITY  
TUNNEL

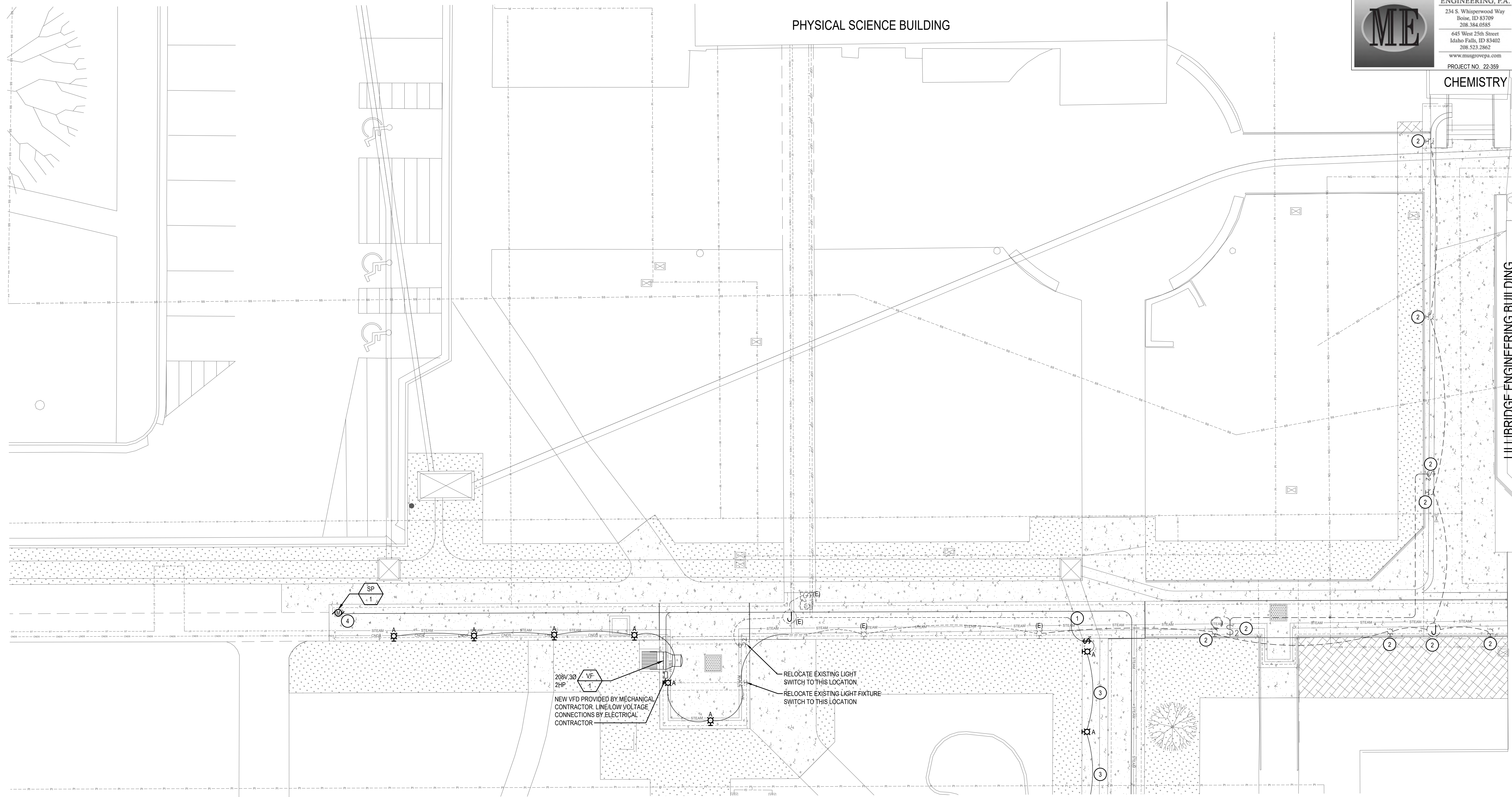
IDAHO STATE UNIVERSITY  
OVERALL LIGHTING  
INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
1-1/2 Inches  
PROJECT NO.  
208106-088  
SHEET NO.  
**E200**



 **1** OVERALL LIGHTING INSTALLATION PLAN  
1" = 50'-0"





**1 LIGHTING INSTALLATION PLAN**  
1" = 10'-0"

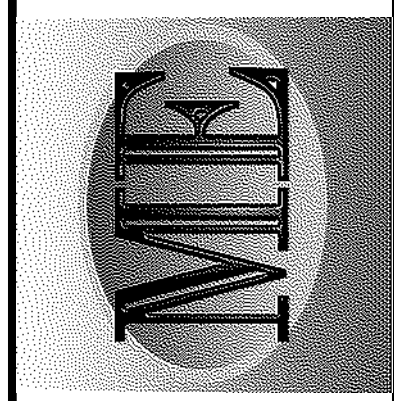
LIGHTING FIXTURE SCHEDULE (22-359)							
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
A	LED VAPOR TIGHT SURFACE WALL MOUNT LIGHT 600 LUMENS, 4000K, MVOLT, 4K SURGE PROTECTION FROSTED GLASS DIFFUSER, GREY FINISH	WALL MOUNT	LED 4000K	15	LITHONIA NO. OLVTMW OR EQUAL	LIGHTOLIER METALUX H.E. WILLIAMS	1
<b>LIGHTING FIXTURE SCHEDULE NOTES:</b> 1 SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF: 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.							

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. CONNECT TO EXISTING TUNNEL LIGHTING CIRCUIT.
- 2. EXISTING DEVICE/LIGHT FIXTURE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWN STREAM DEVICES THAT ARE TO REMAIN.
- 3. NEW 3/4" (PVC) 2#10 CU AND 1#10 CU GND MOUNTED TO WALL OF TUNNEL.
- 4. NEW SUMP PUMP. SEE EXISTING PANEL T1 ON DRAWING E203 FOR CIRCUIT.

**MUSGROVE ENGINEERING, P.A.**  
234 S. Whisperwood Way  
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208.523.2862  
www.musgrovepa.com  
PROJECT NO. 22-359

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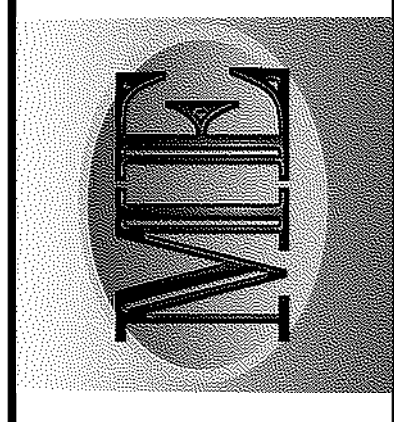
DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
LIGHTING INSTALLATION PLAN

DRAWN: DBH CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. E201

1-1/2 Inches





NO.	REVISIONS	DATE

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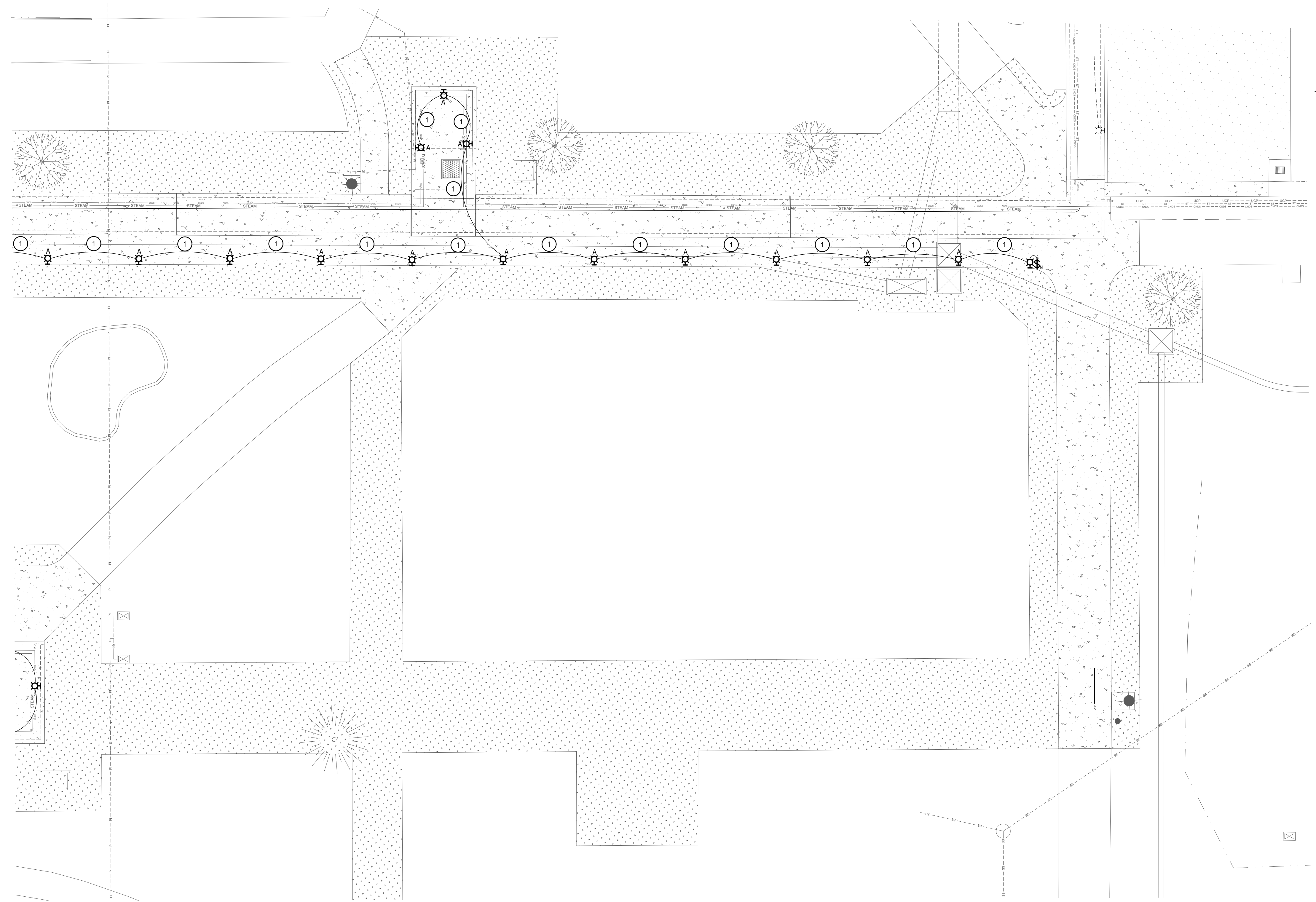
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY  
 TUNNEL

IDAHO STATE UNIVERSITY  
**LIGHTING INSTALLATION PLAN**

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E202

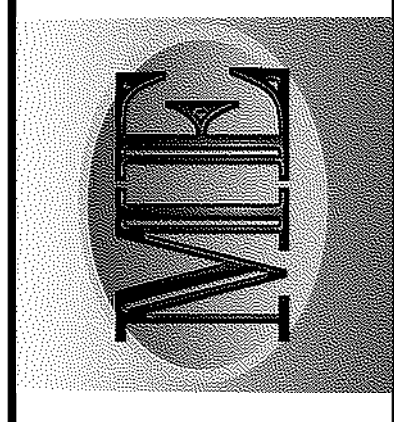
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. NEW 3/4" (PVC) 2#10 CU AND 1#10 CU GND MOUNTED TO WALL OF TUNNEL.



**1 LIGHTING INSTALLATION PLAN**  
 1" = 10'-0"





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

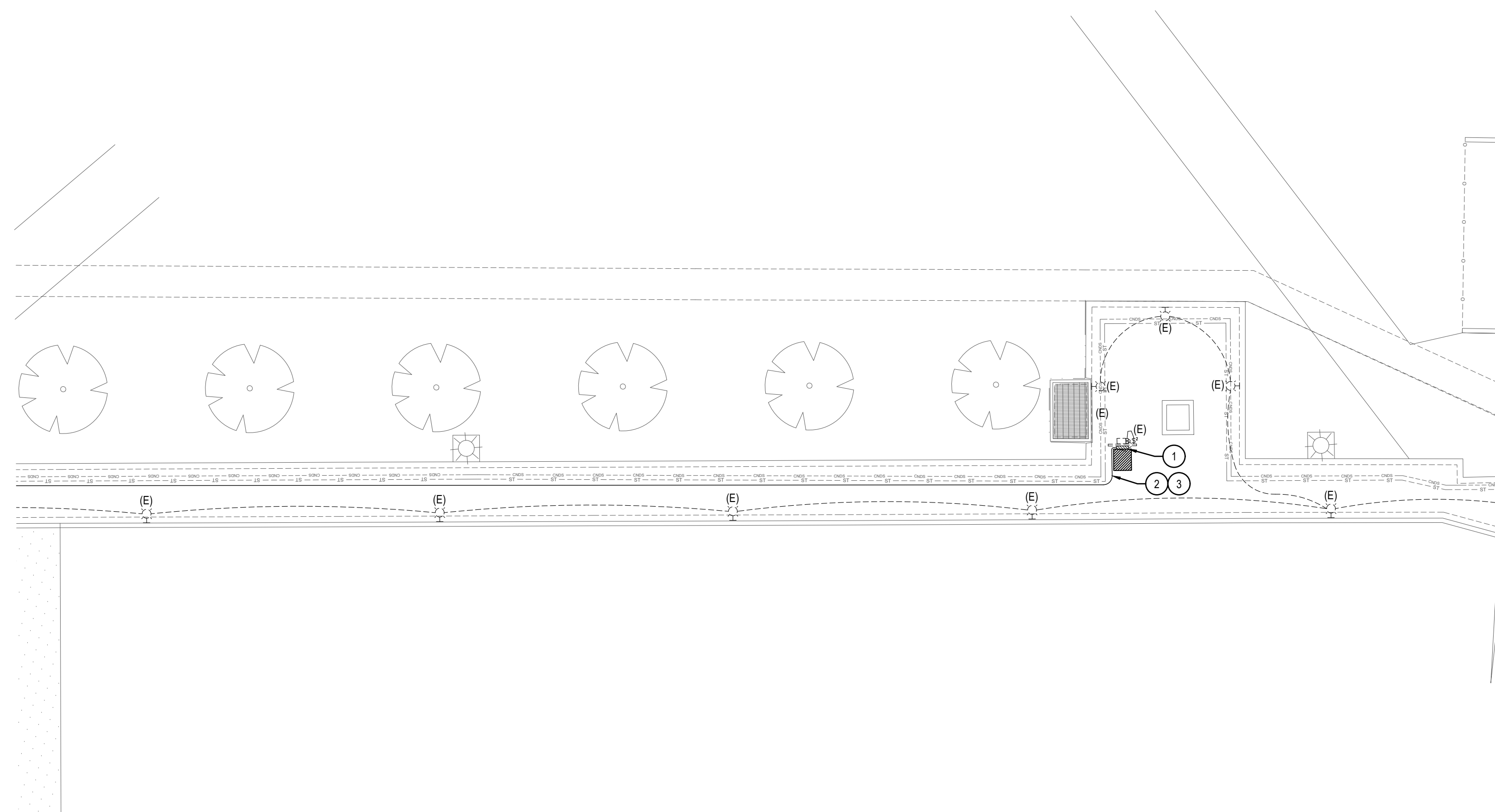
IDAHO STATE UNIVERSITY  
 LIGHTING INSTALLATION PLAN

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E203

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING PANEL T1, USE CIRCUIT NUMBERS T1-5,7,9 FOR NEW EXHAUST FAN EF-2 AND CIRCUIT NUMBER T1-10 FOR NEW SUMP PUMP SEE DRAWING E202.
- 2. 3/4" 4#12-1#12G TO NEW EXHAUST FAN EF-2, SEE DRAWING E202.
- 3. 3/4" 2#12-1#12G TO NEW SUMP PUMP, SEE DRAWING E202.

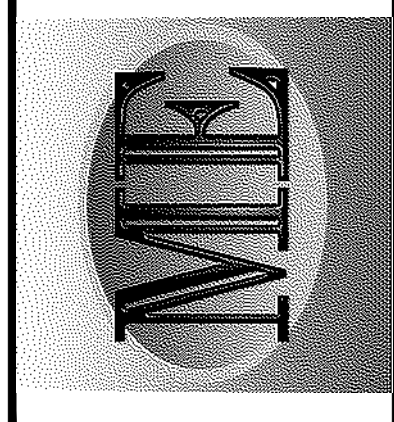
PANEL: T1 (E)		PROJECT: IDAHO STATE UNIVERSITY REPAIR UTILITY TUNNEL		60 MBR		SC RATING: 10000 AIC				
VOLTAGE: 208Y/120		3 PH 4 WIRE		AMPERE RATING:		MOUNTING: SURFACE				
CKT NOTES: 1. RED HANDLE, LOCKABLE BREAKER 2. GFCI FOR PERSONNEL PROTECTION (5mA) 3. GFCP FOR EQUIPMENT PROTECTION (30mA) 4. AFCI COMBINATION STYLE BREAKER				REMARKS: 5. EXISTING BREAKER						
CKT	DESCRIPTION	CKT NOTE	LOAD AMPS	AMPS/POLES	PHASE (AMPS) A B C	AMPS/POLES	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT
1	SUMP PUMP		5.0	20 1	12.8		20 3	7.8	EXHAUST FAN EF-1	2
3	inLIGHT RELAYS		1.0	20 1		8.8		7.8	***	4
5	EXHAUST FAN EF-2		7.8	20 3			15.6	**	7.8	6
7	***		7.8	** *	7.8			20 1	SPARE	8
9	***		7.8	** *		12.8		20 1	SUMP PUMP SP-1	10
					20.6	21.6	15.6	AMPS		
					2.5	2.6	1.9	KW	6.94	TOTAL KW



ADMINISTRATION BUILDING

**1 LIGHTING INSTALLATION PLAN**  
 1" = 10'-0"





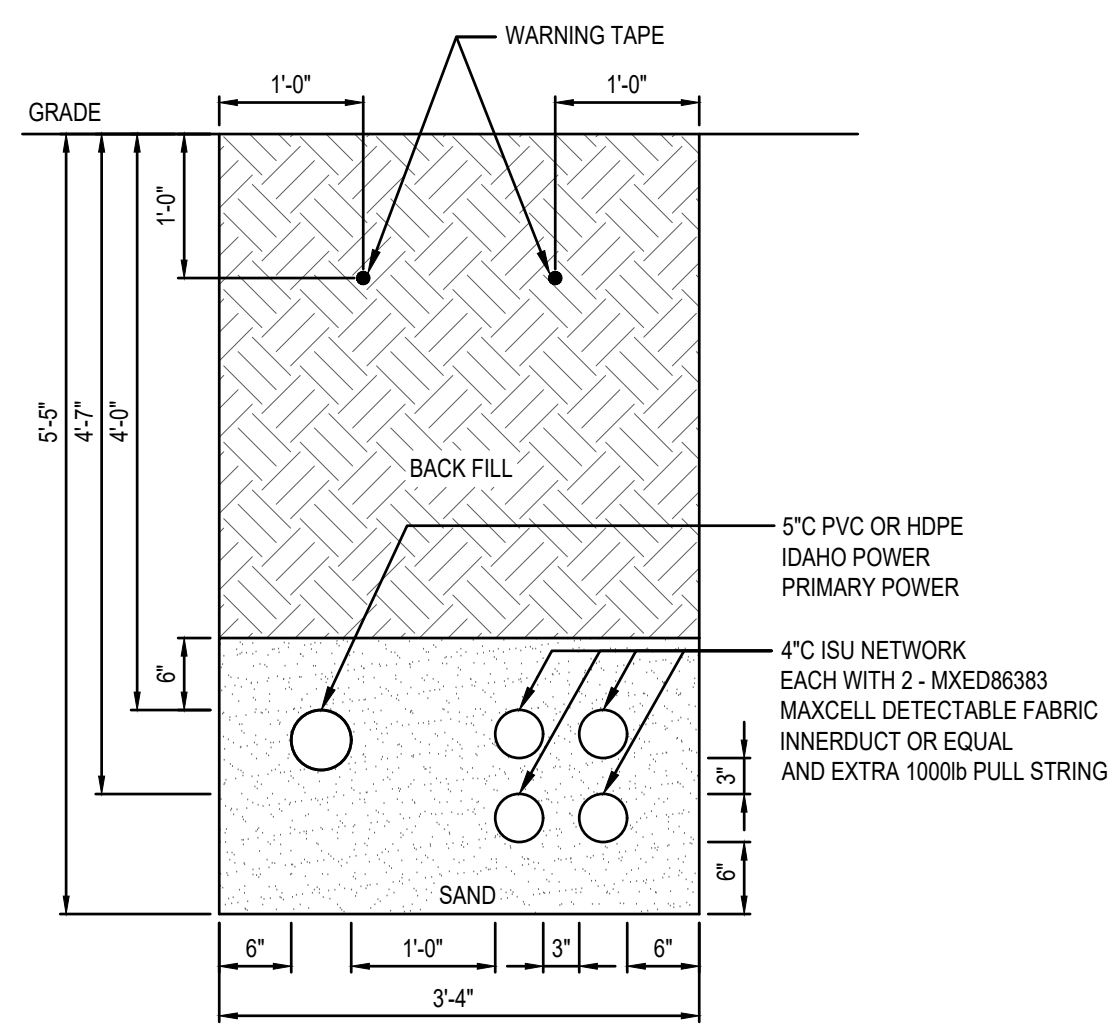
REVISION #1	7/15/2022
NO.	REVISIONS
DATE	DATE

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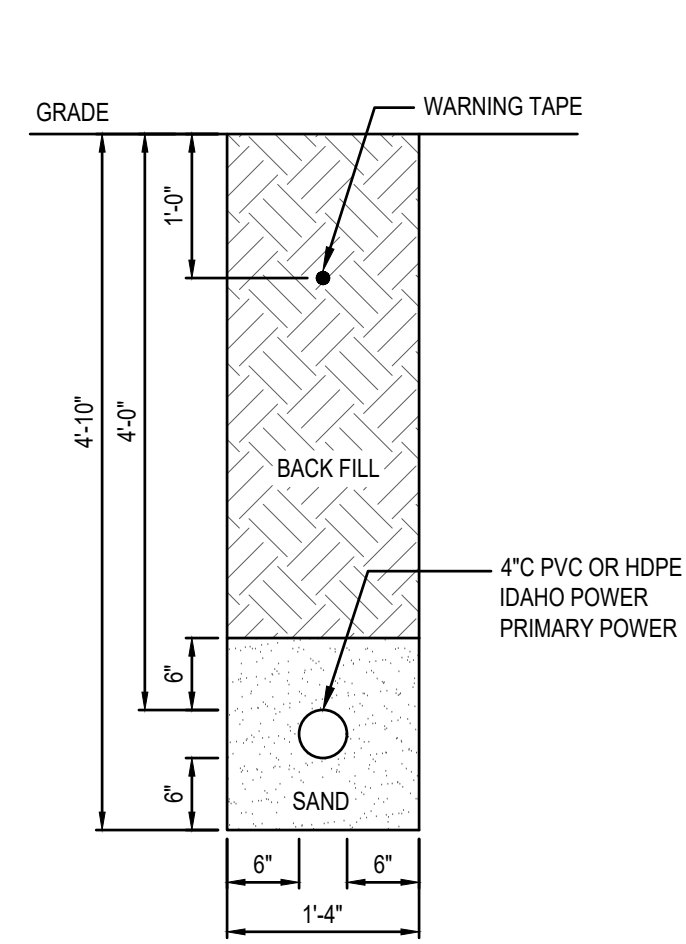
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 ELECTRICAL DETAILS

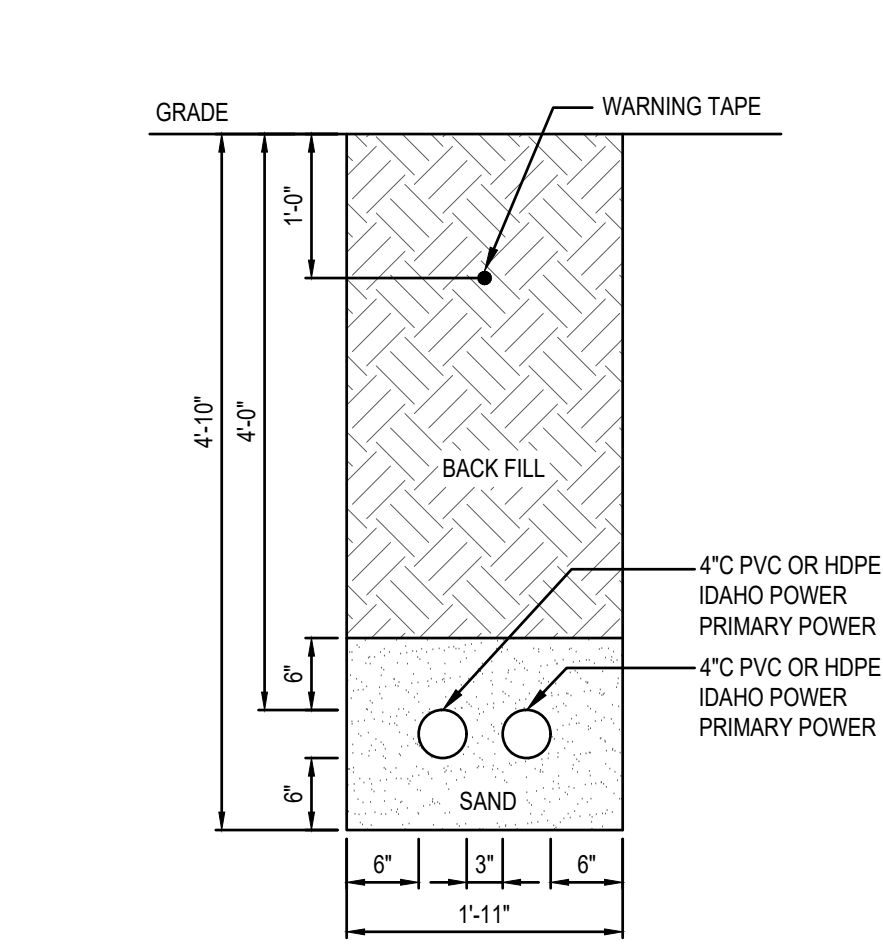
DRAWN: DBH CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E300



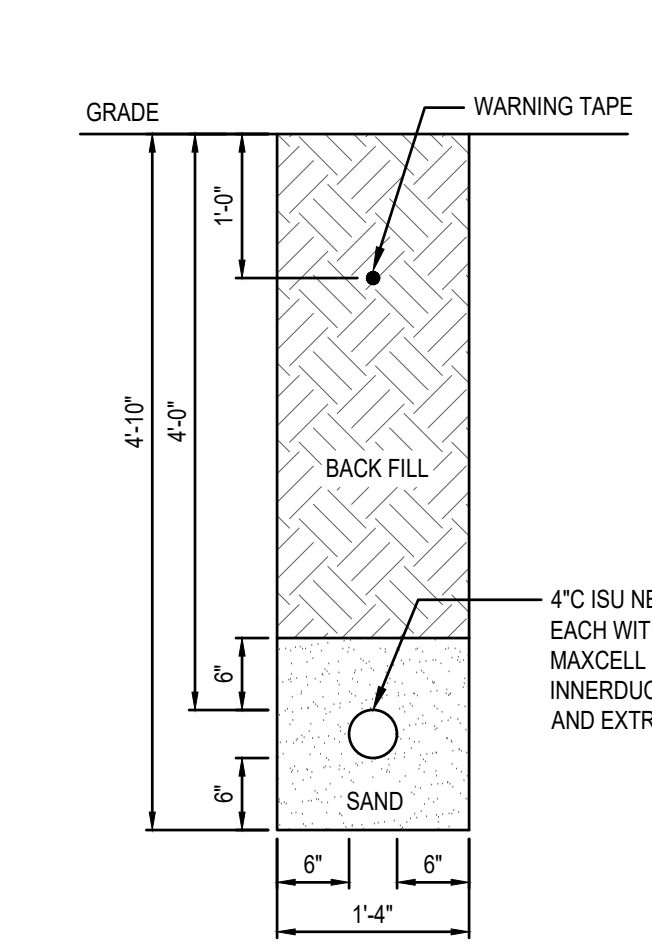
**A** UTILITY TRENCH SECTION A  
 E300 SCALE: 3/4" = 1'-0"



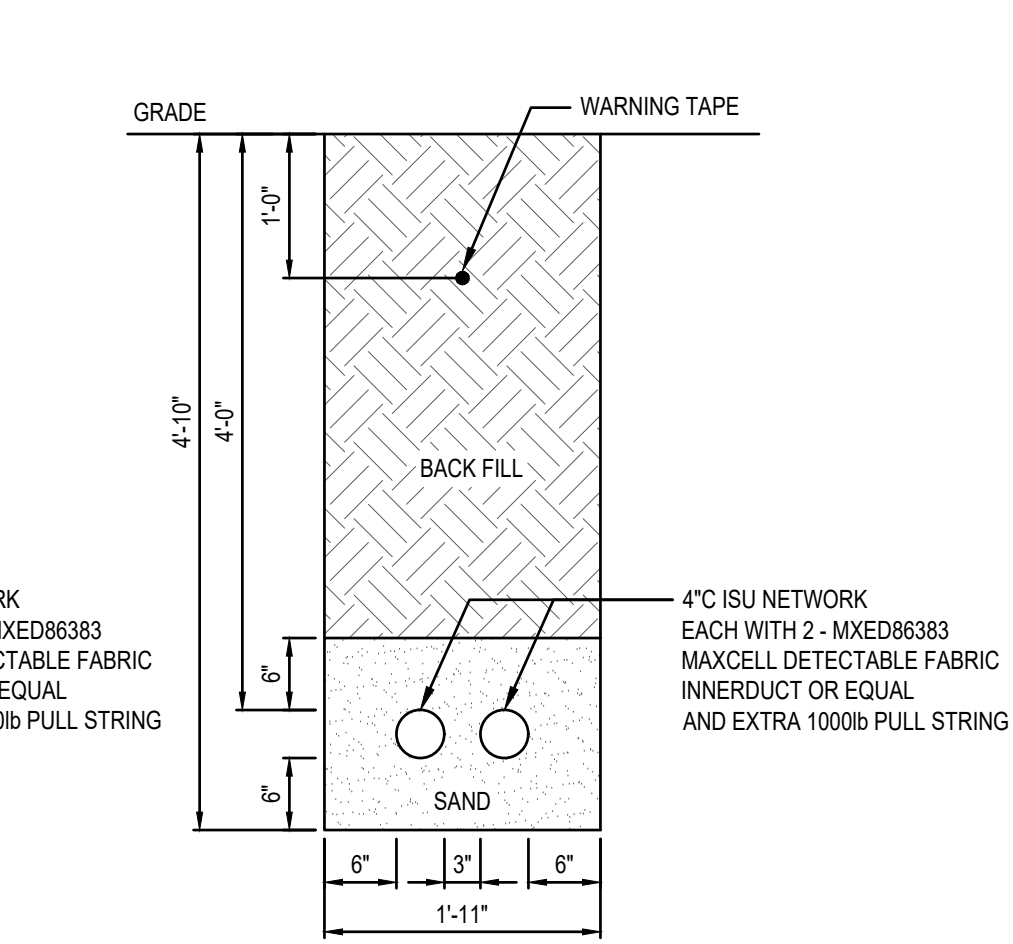
**B** UTILITY TRENCH SECTION B  
 E300 SCALE: 3/4" = 1'-0"



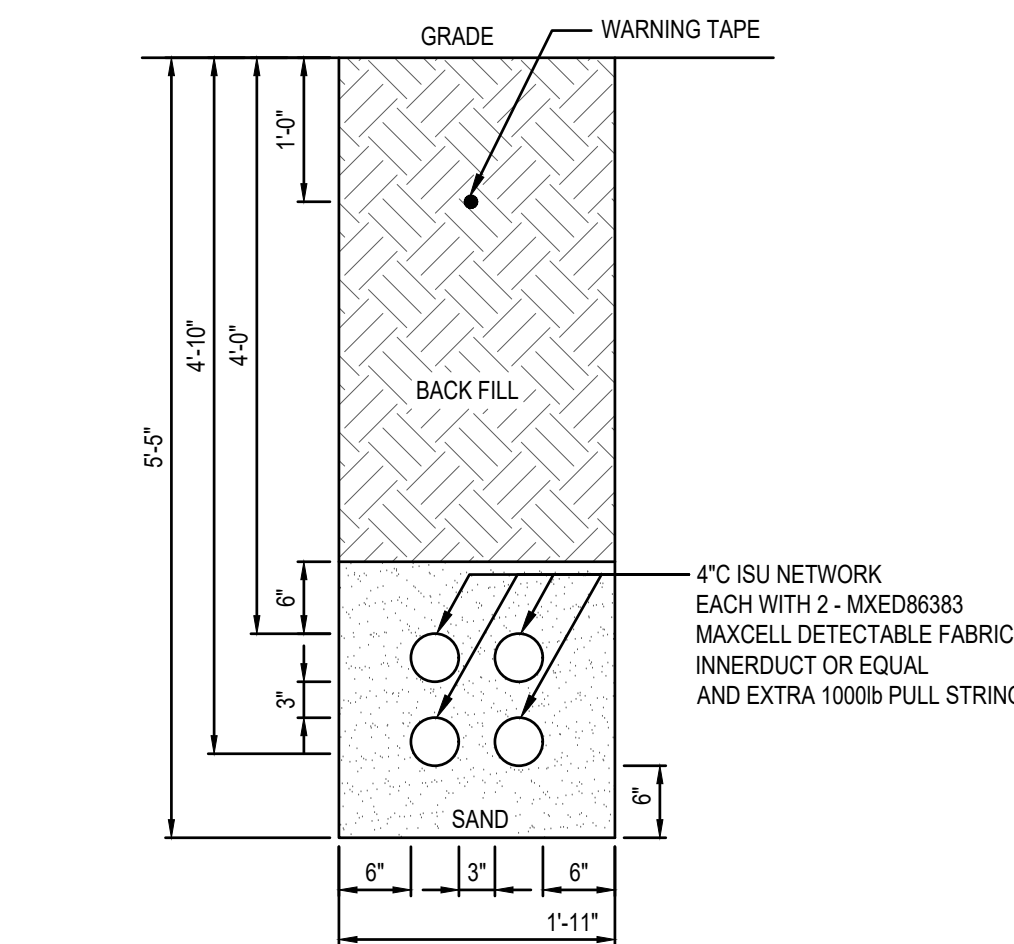
**B1** UTILITY TRENCH SECTION B1  
 E300 SCALE: 3/4" = 1'-0"



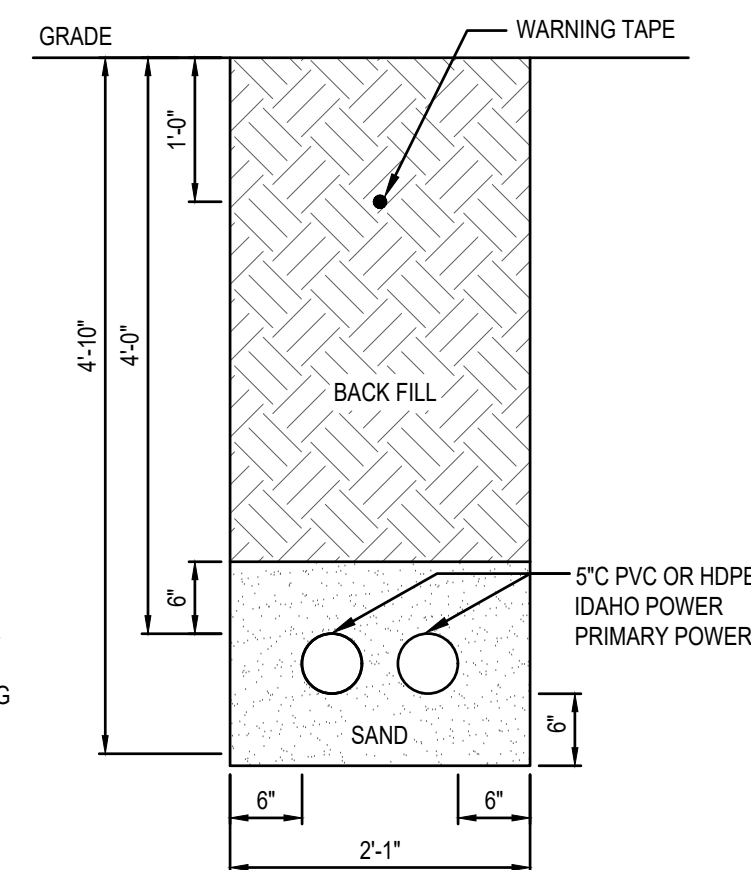
**C** UTILITY TRENCH SECTION C  
 E300 SCALE: 3/4" = 1'-0"



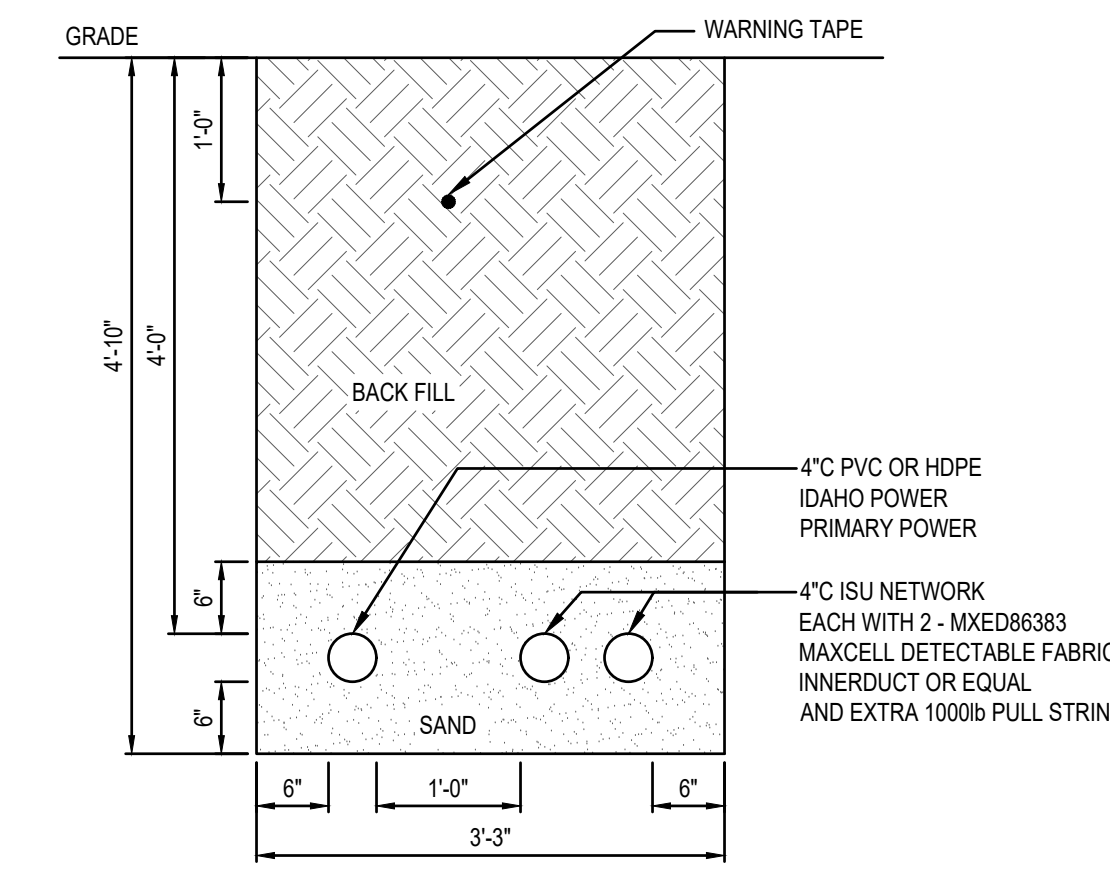
**C1** UTILITY TRENCH SECTION C1  
 E300 SCALE: 3/4" = 1'-0"



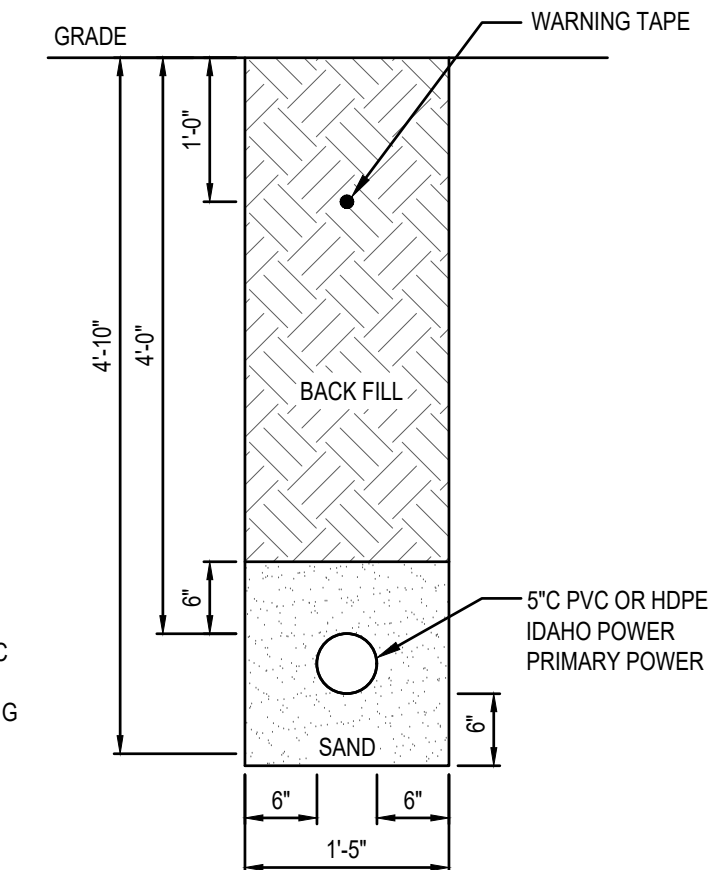
**D** UTILITY TRENCH SECTION D  
 E300 SCALE: 3/4" = 1'-0"



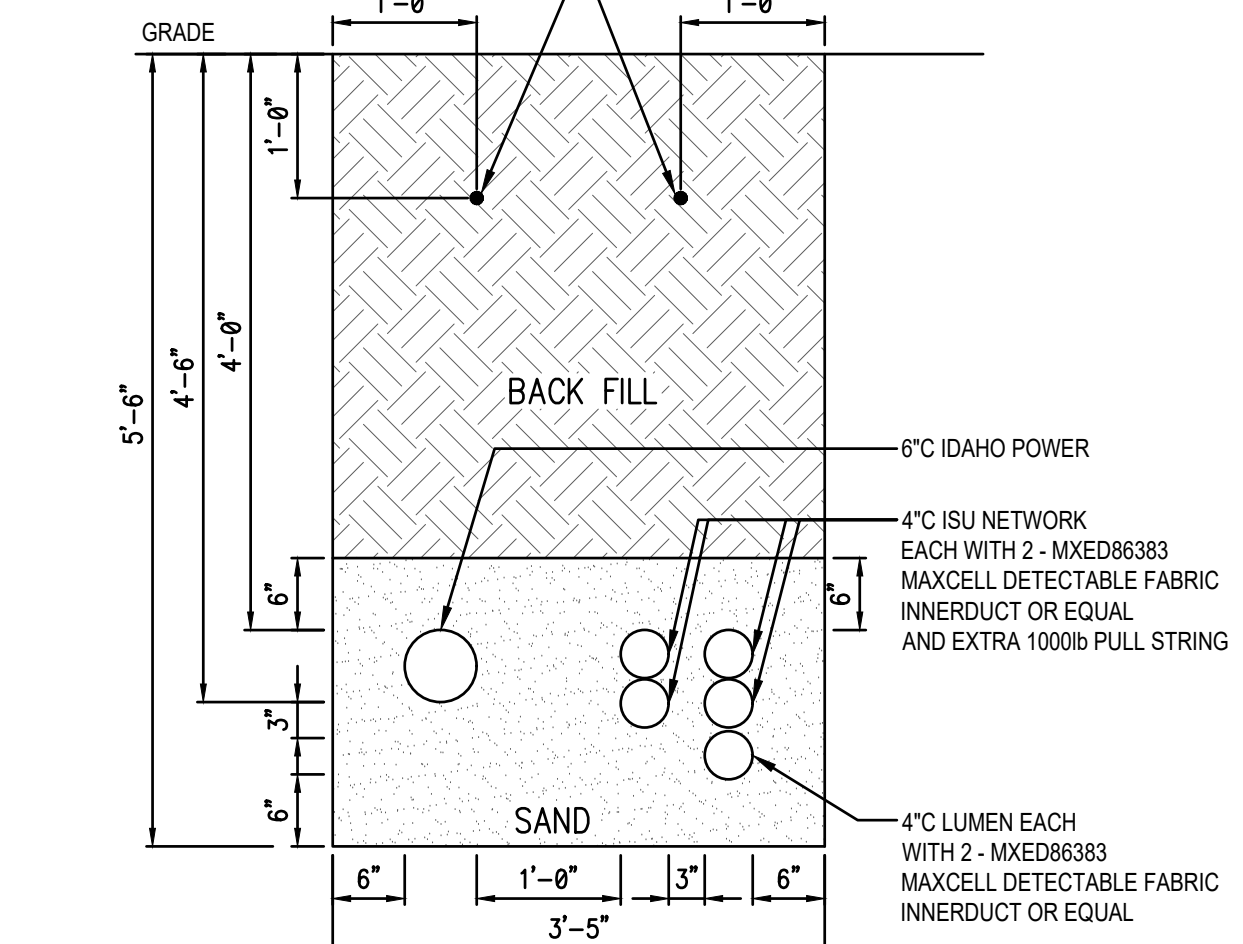
**E** UTILITY TRENCH SECTION E  
 E300 SCALE: 3/4" = 1'-0"



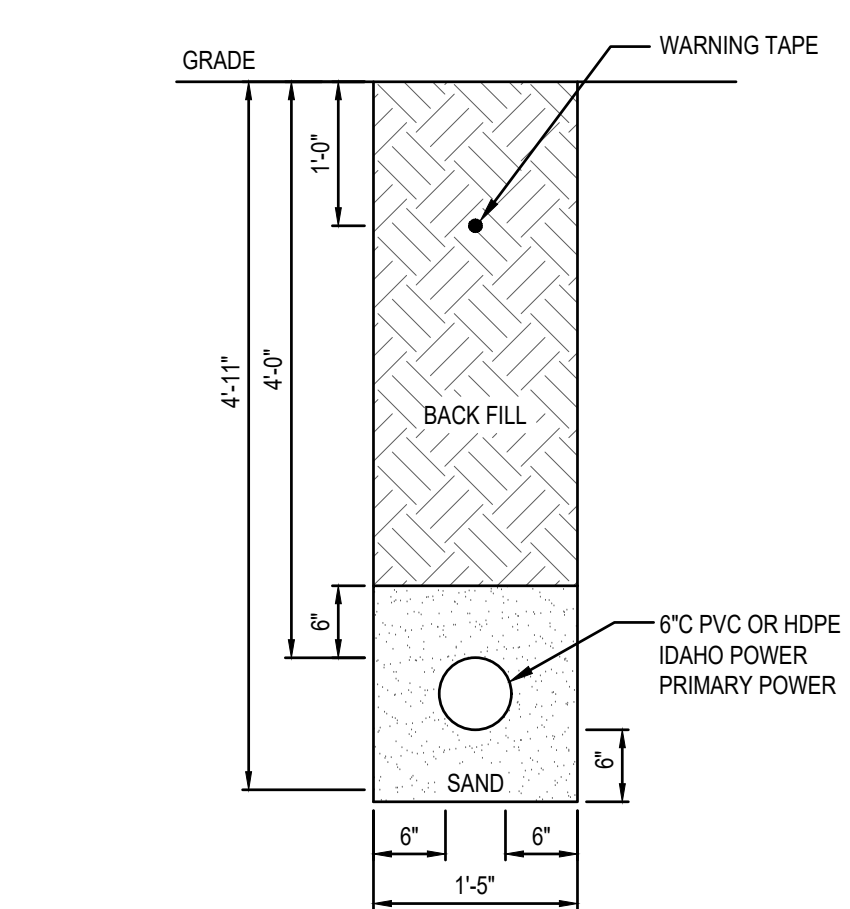
**F** UTILITY TRENCH SECTION F  
 E300 SCALE: 3/4" = 1'-0"



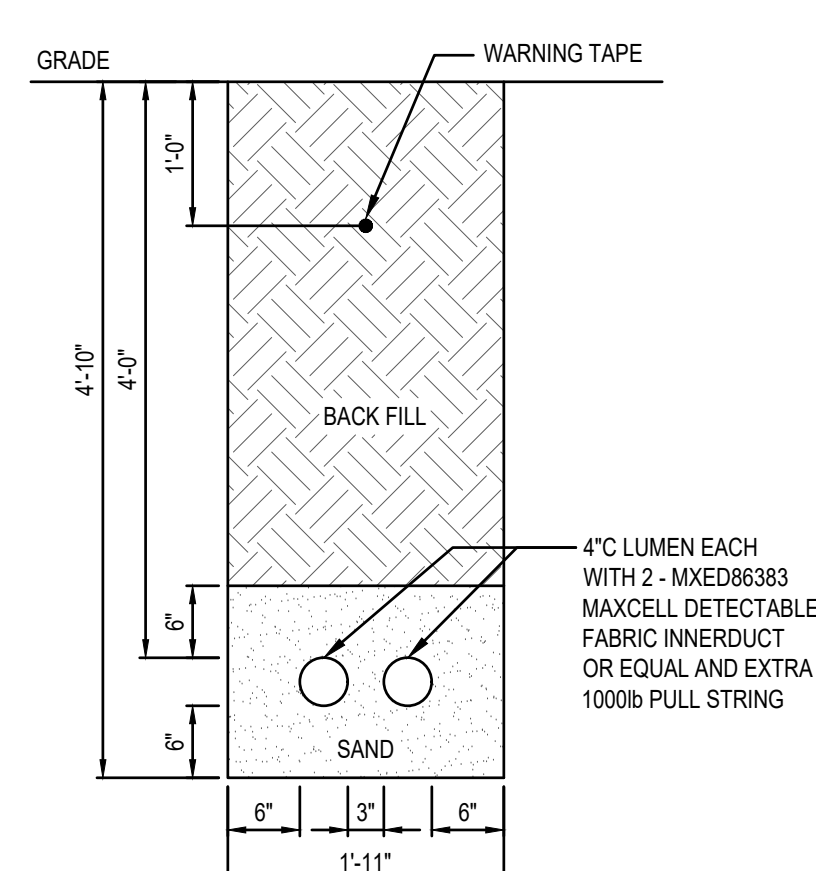
**G** UTILITY TRENCH SECTION G  
 E300 SCALE: 3/4" = 1'-0"



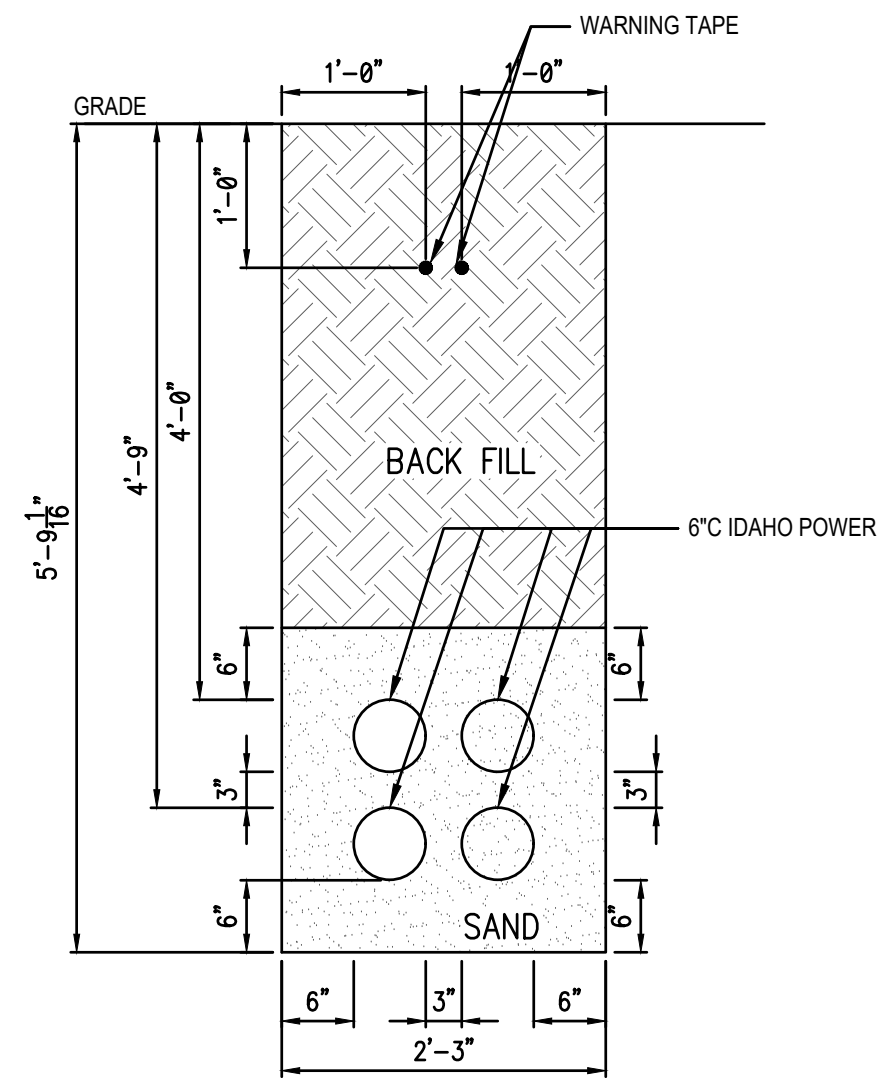
**H** UTILITY TRENCH SECTION H  
 E300 SCALE: 3/4" = 1'-0"



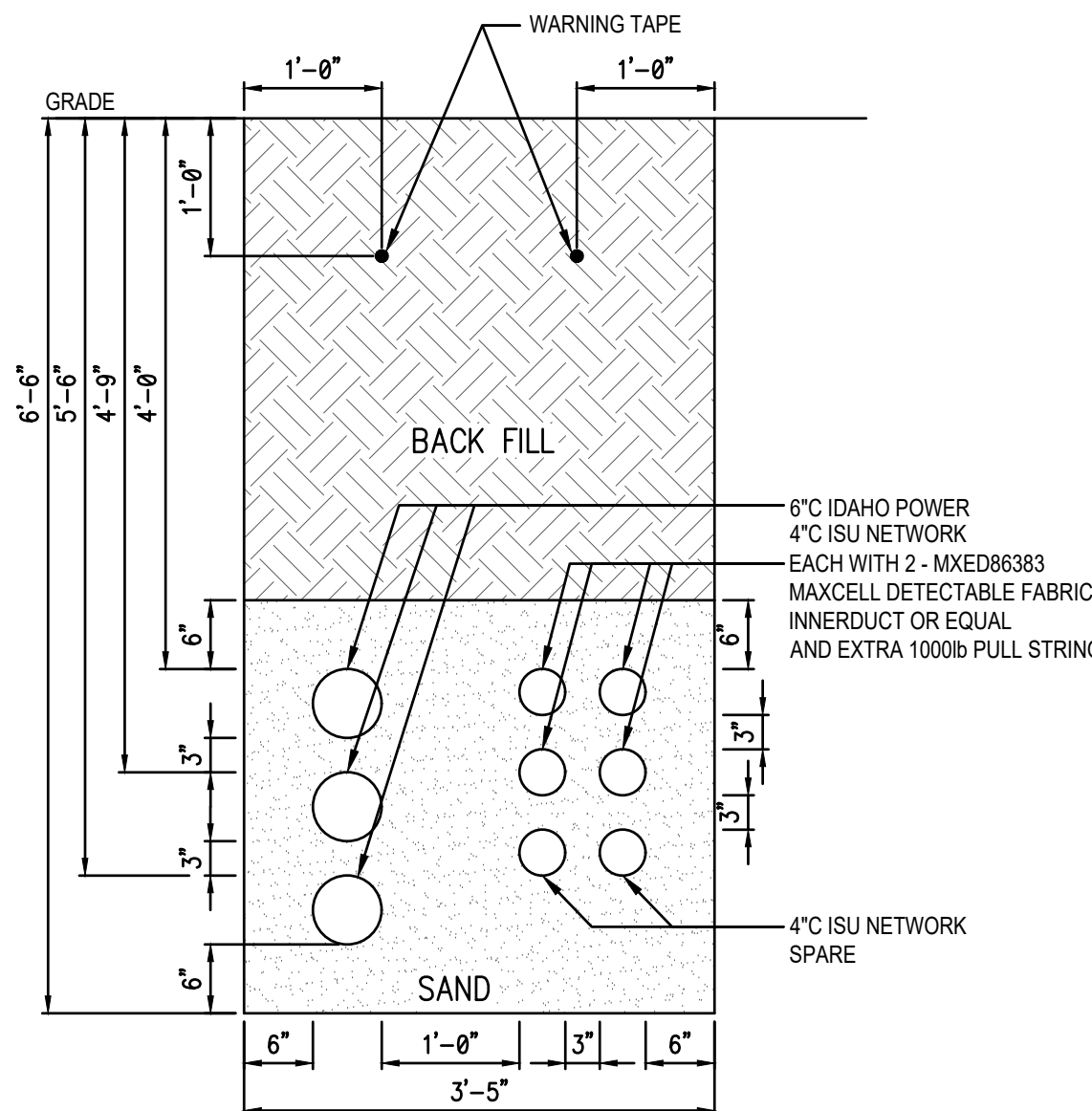
**I** UTILITY TRENCH SECTION I  
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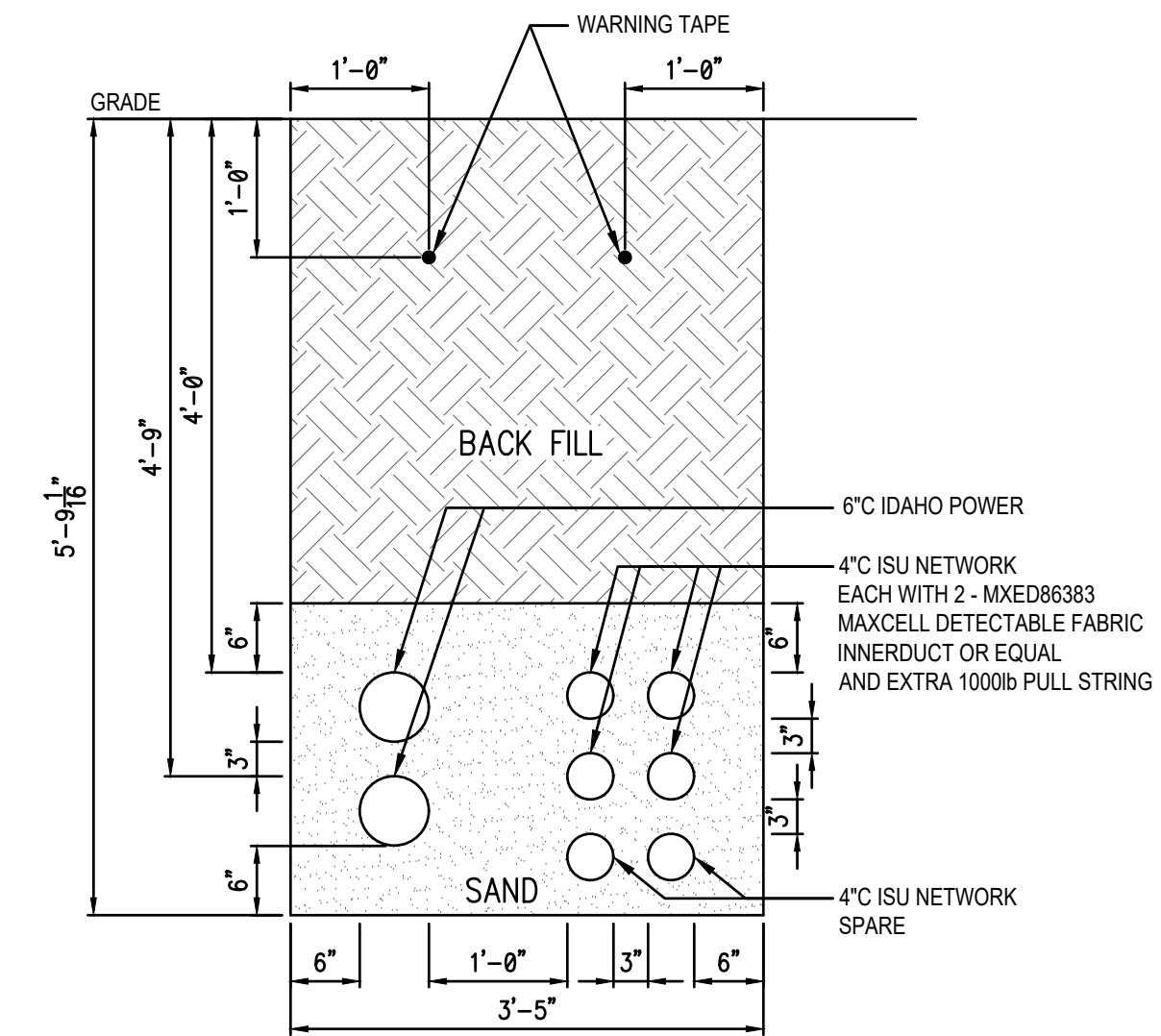
**J** UTILITY TRENCH SECTION J  
 E300 SCALE: 3/4" = 1'-0"



**K** UTILITY TRENCH SECTION K  
 E300 SCALE: 3/4" = 1'-0"

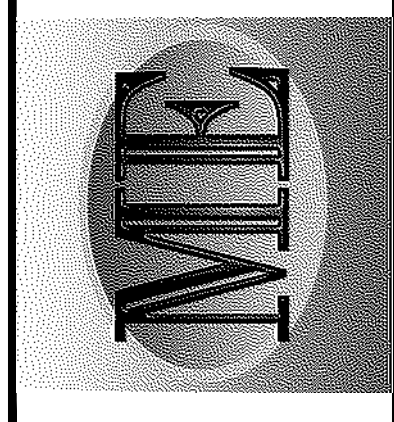


**(E)** UTILITY TRENCH SECTION EX1  
 E300 SCALE: 3/4" = 1'-0" (PREVIOUSLY SECTION E8)

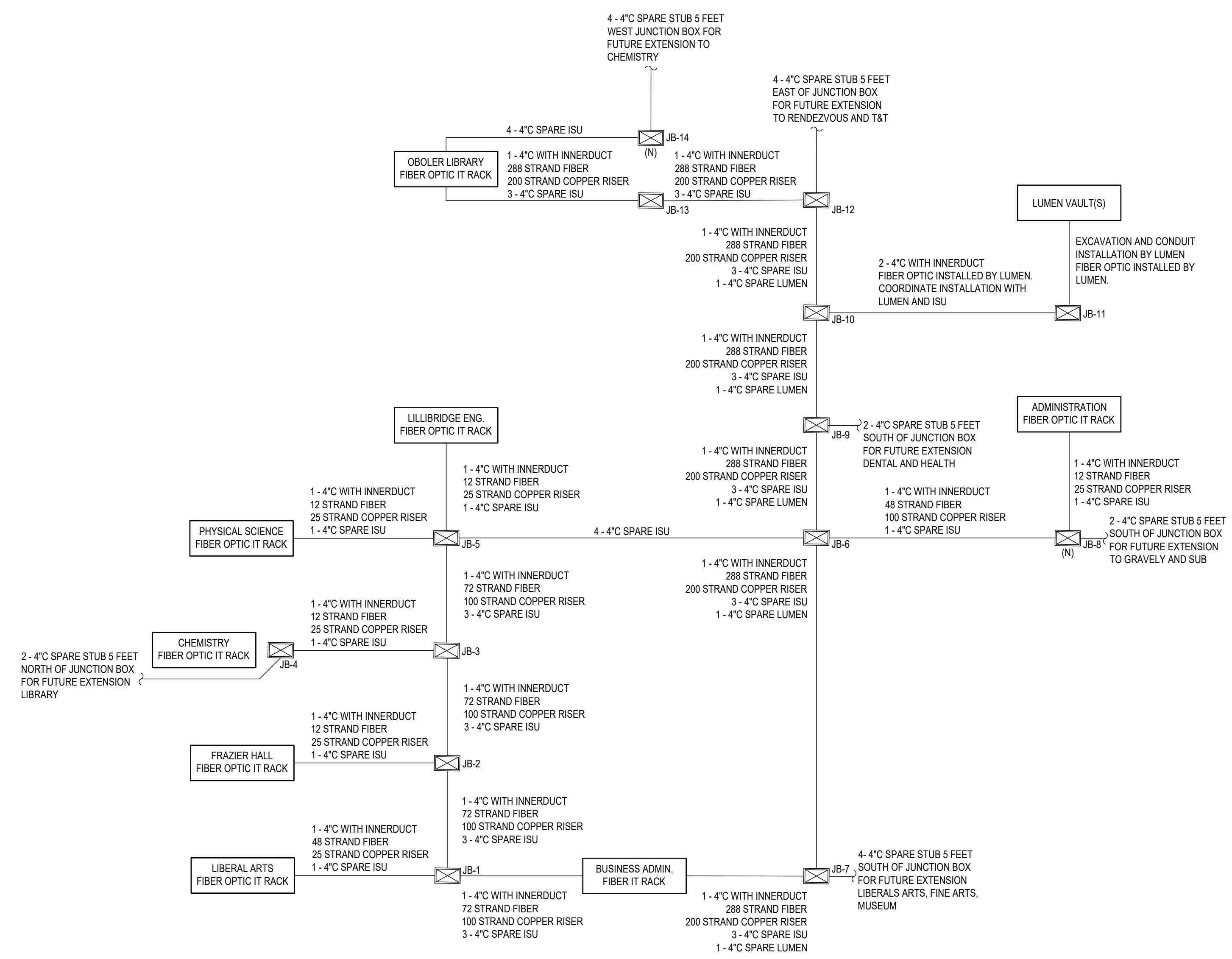


**(E)** UTILITY TRENCH SECTION EX2  
 E300 SCALE: 3/4" = 1'-0" (PREVIOUSLY SECTION E9)

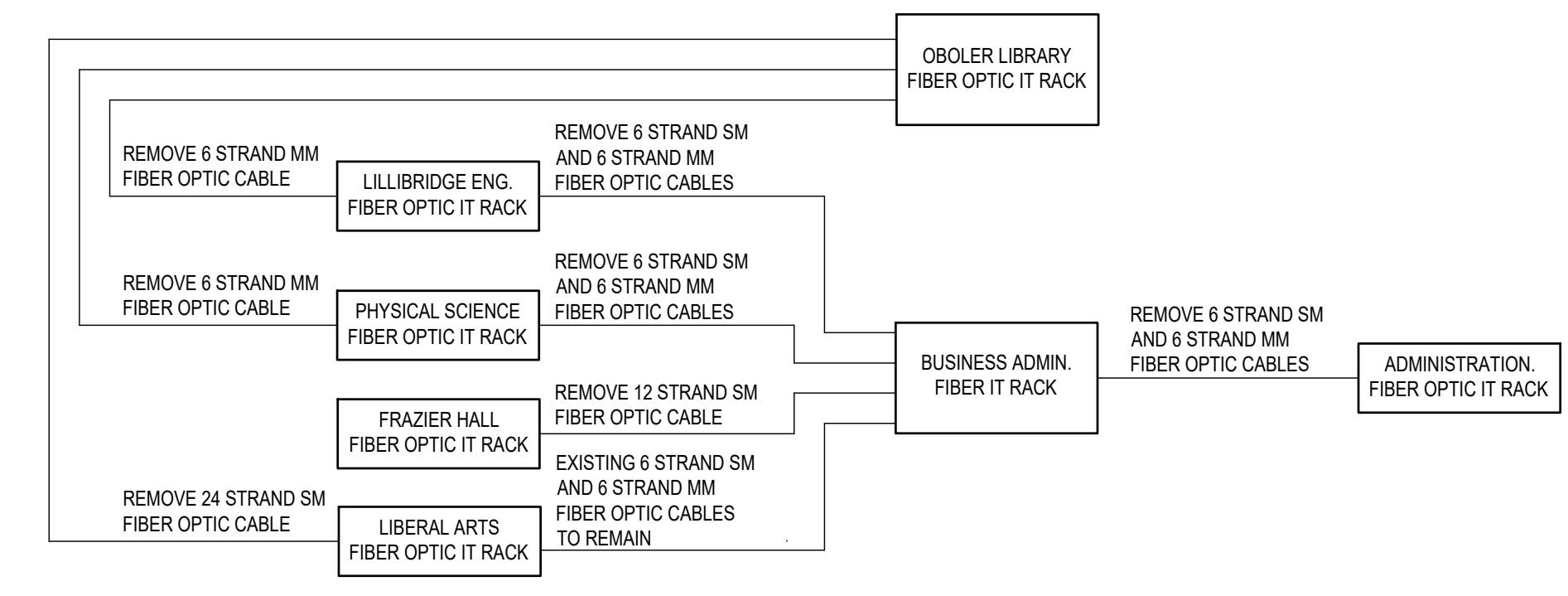




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NO.	REVISIONS	DATE
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**A E301** NEW NETCOM STRUCTURED CABLING BLOCK DIAGRAM  
 SCALE: NOT TO SCALE



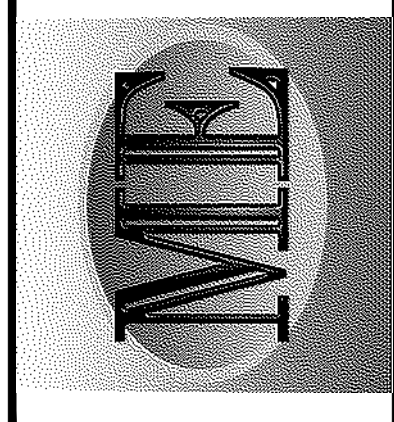
**B E301** DEMOLITION NETCOM STRUCTURED CABLING BLOCK DIAGRAM  
 SCALE: 3/4" = 1'-0"

DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 ELECTRICAL DETAILS

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E301





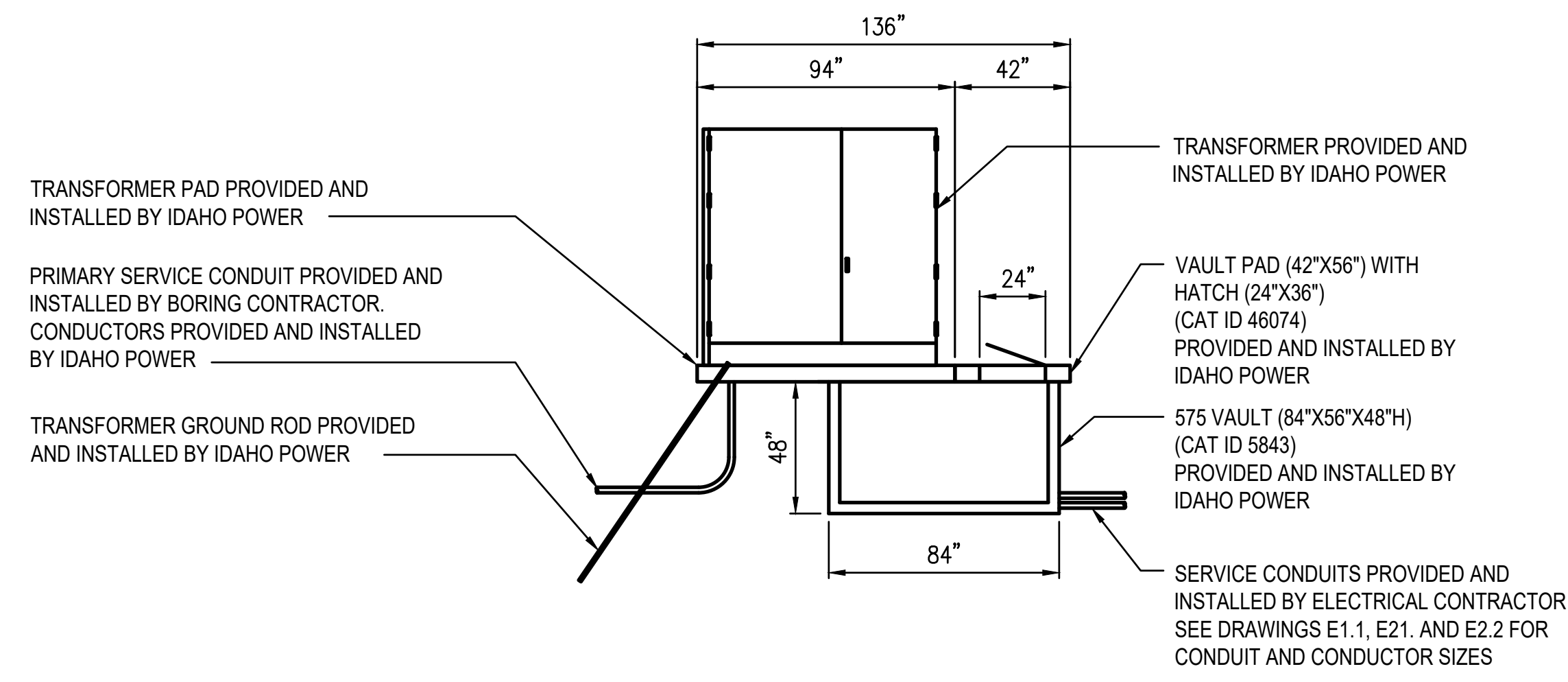
NO.	REVISIONS	DATE
1		7/15/2022

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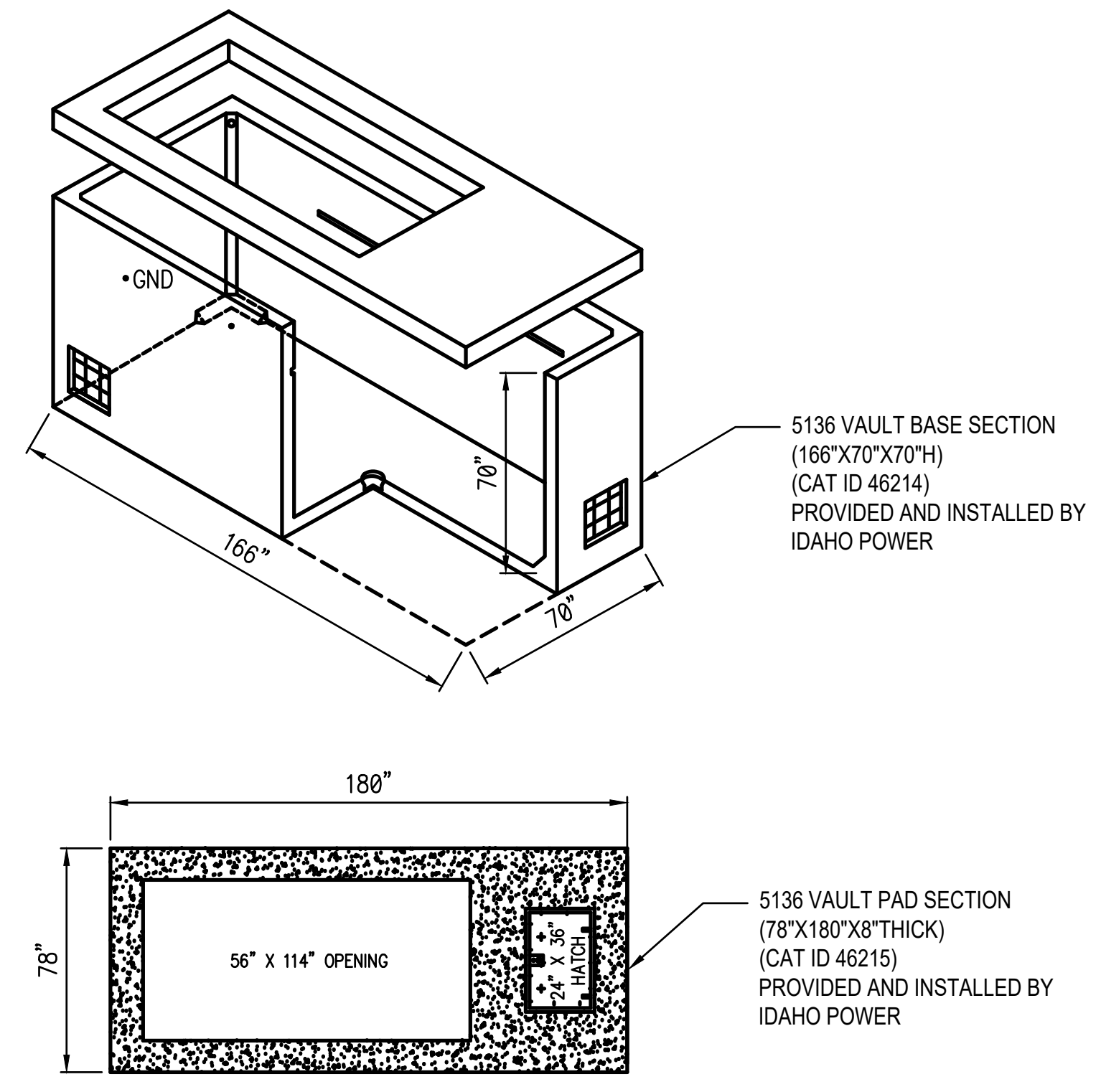
DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 ELECTRICAL DETAILS

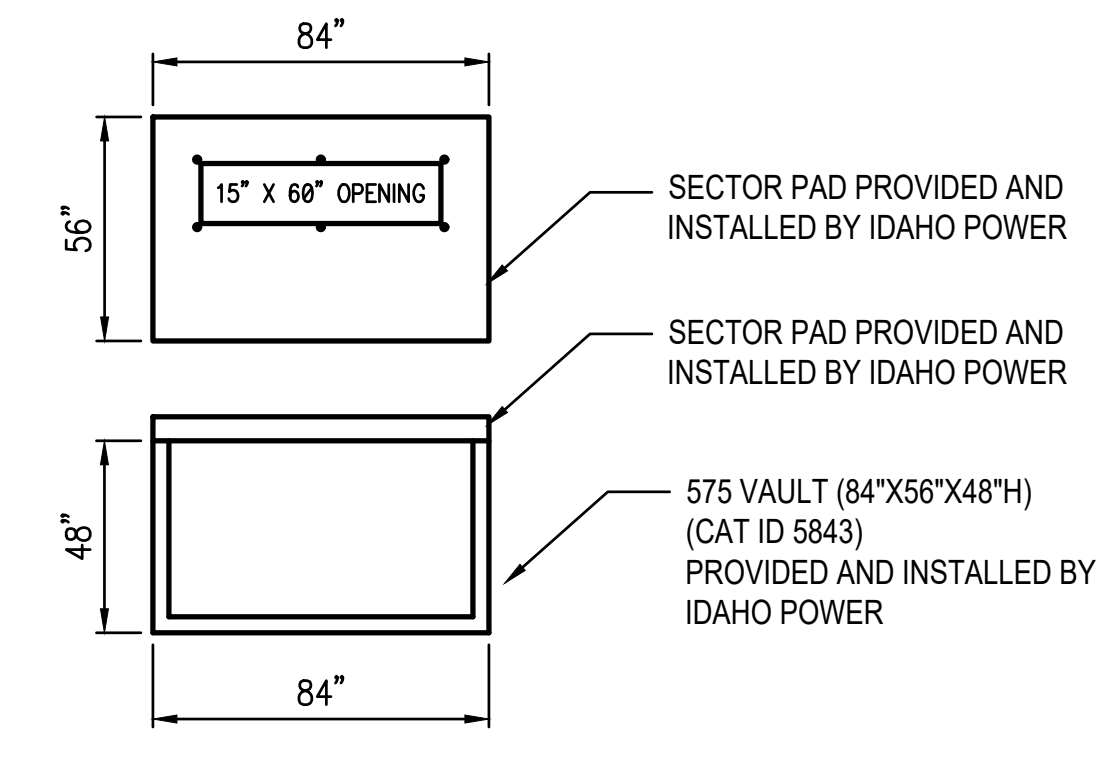
DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E302



**C**  
 E303  
**TRANSFORMER VAULT DETAIL**  
 SCALE: NTS

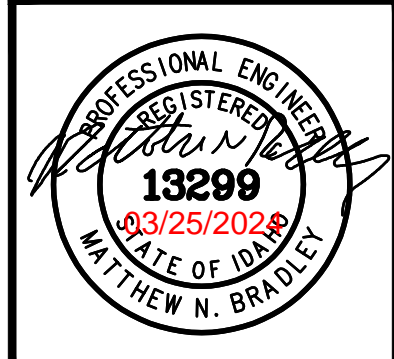
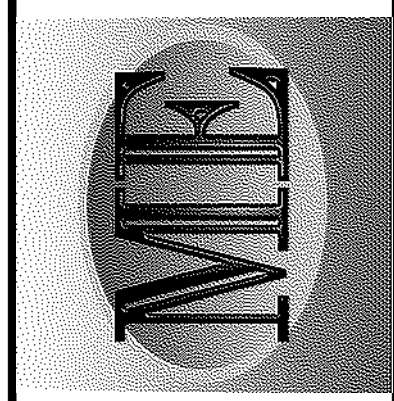


**B**  
 E303  
**SWITCHGEAR VAULT PAD DETAIL**  
 SCALE: NTS



**A**  
 E303  
**SECTOR VAULT PAD DETAIL**  
 SCALE: NTS





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 BUILDING 01 FRAZIER HALL  
 1ST FLOOR

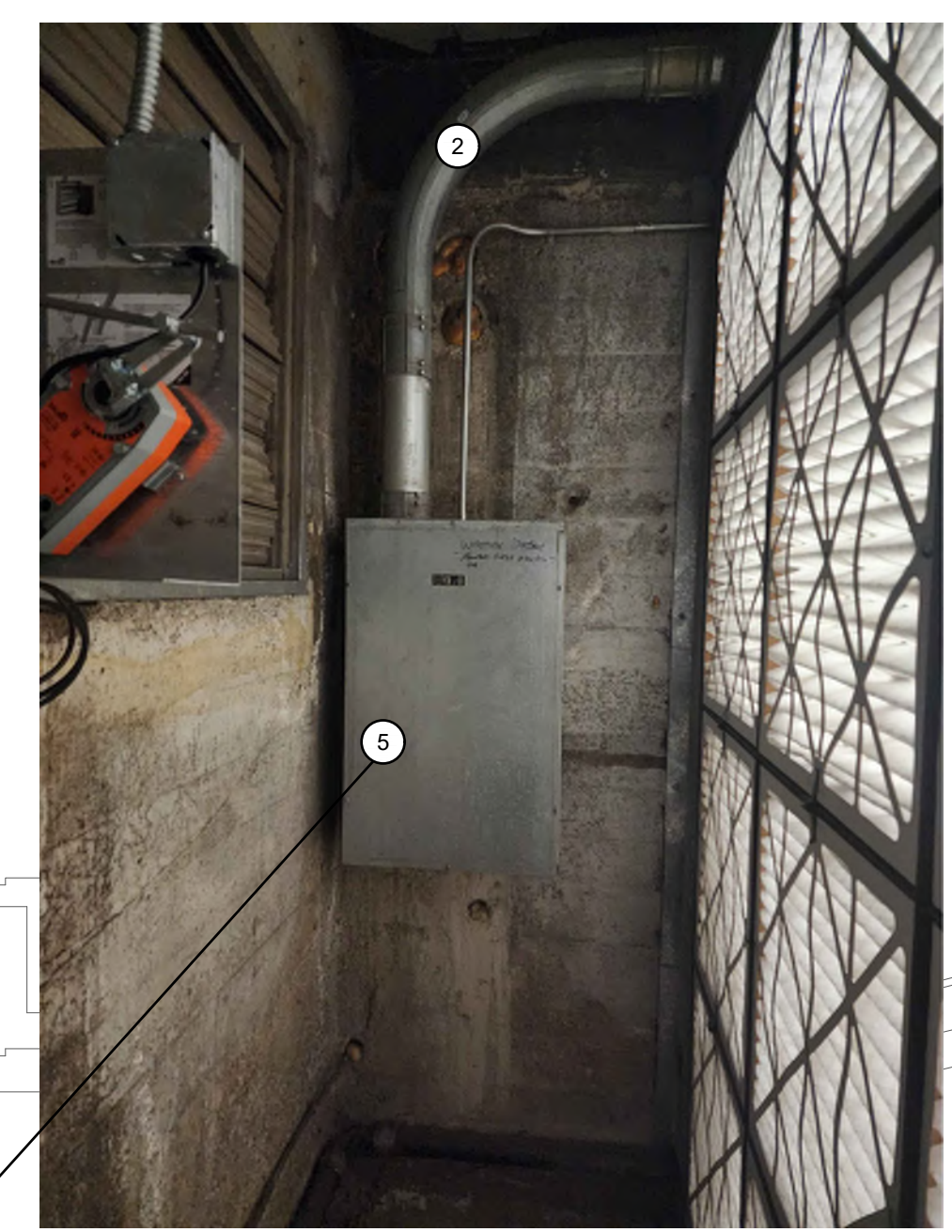
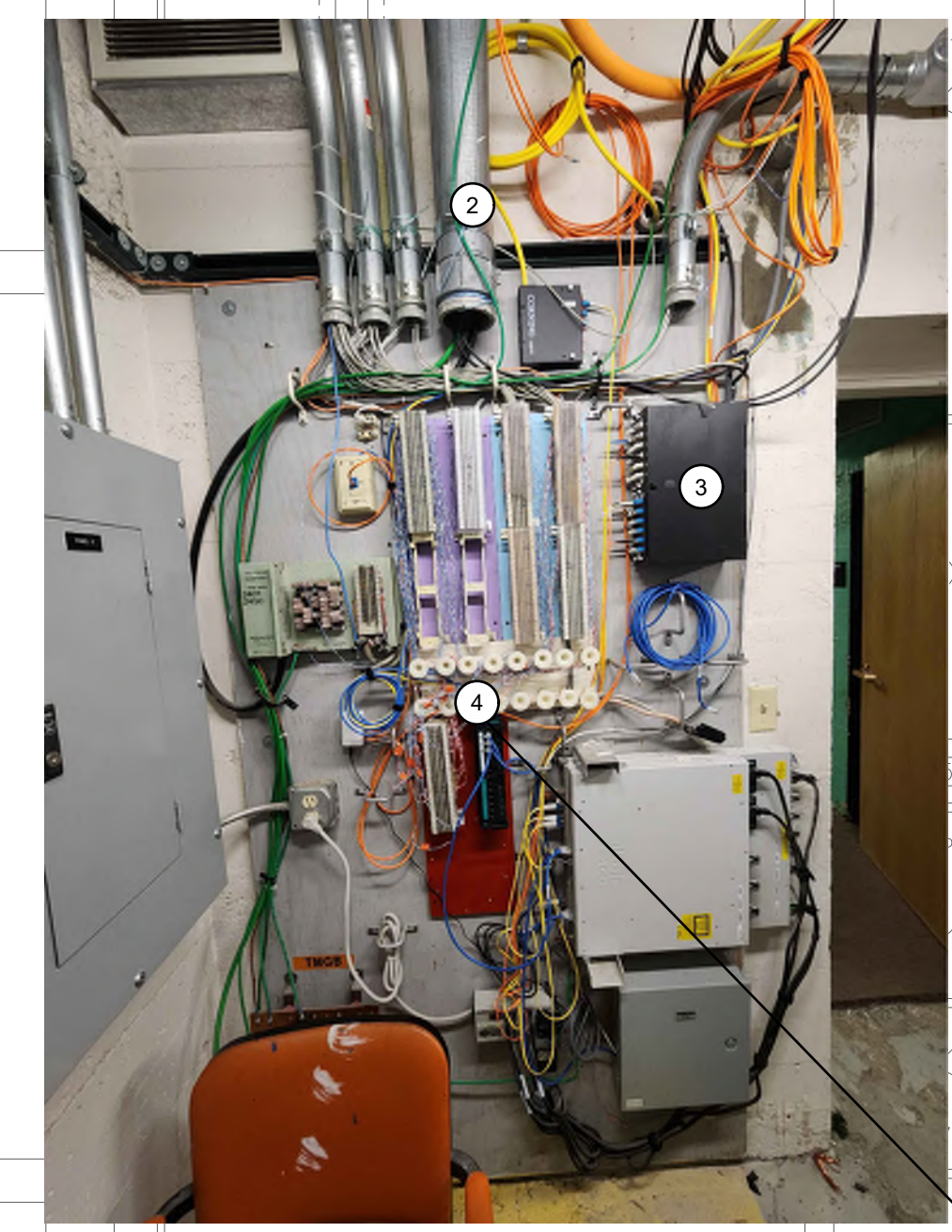
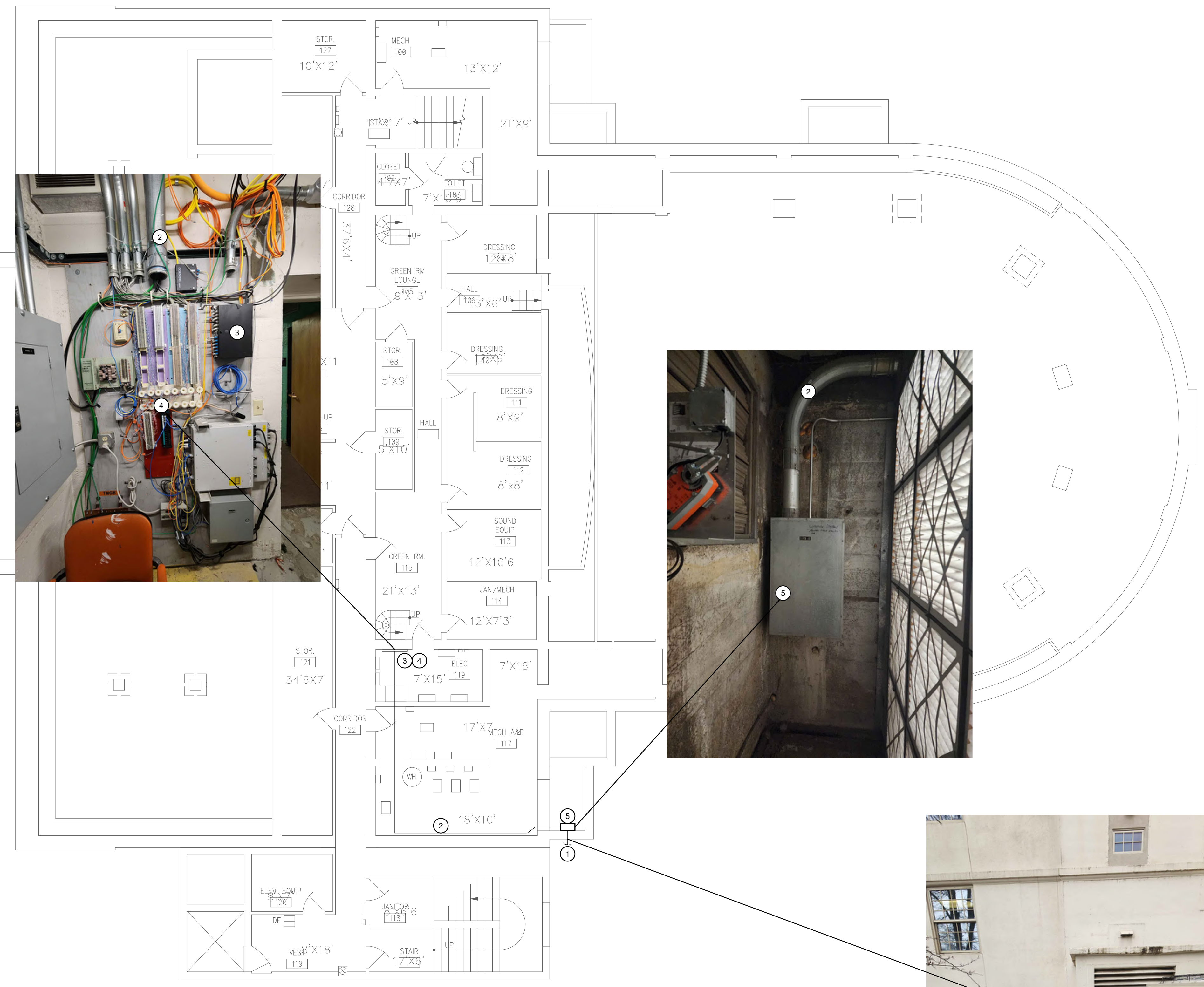
DRAWN: DBH CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E400

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. CORE DRILL 2-4" CONDUITS THROUGH WALL INTO COMMUNICATIONS JUNCTION BOX IN FRESH AIR INTAKE AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 2. EXISTING 4" C INSTALL NEW MXED06383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER AND COPPER CABLE TO BE INSTALLED.
- 3. EXISTING FIBER PANEL. INSTALL NEW FIBER AND TERMINATE IN PANEL.
- 4. EXISTING TELEPHONE BACKBOARD. INSTALL NEW COPPER CABLES AND TERMINATE AT THIS LOCATION.
- 5. EXISTING COMMUNICATIONS JUNCTION BOX TO BE REUSED.

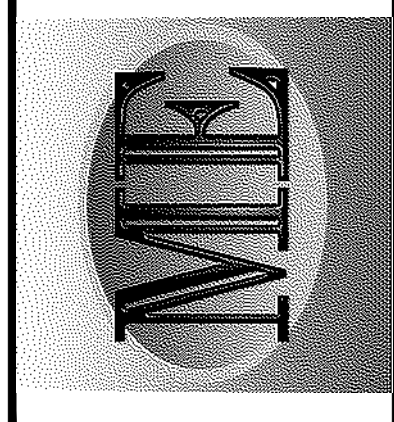
**GENERAL NOTES:**

- 1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.



**1 BLDG 01 - FRAZIER HALL - 1ST FLOOR**  
 1/8" = 1'-0"





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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 BUILDING 03/03A PHYSICAL SCIENCE AND CHEMISTRY

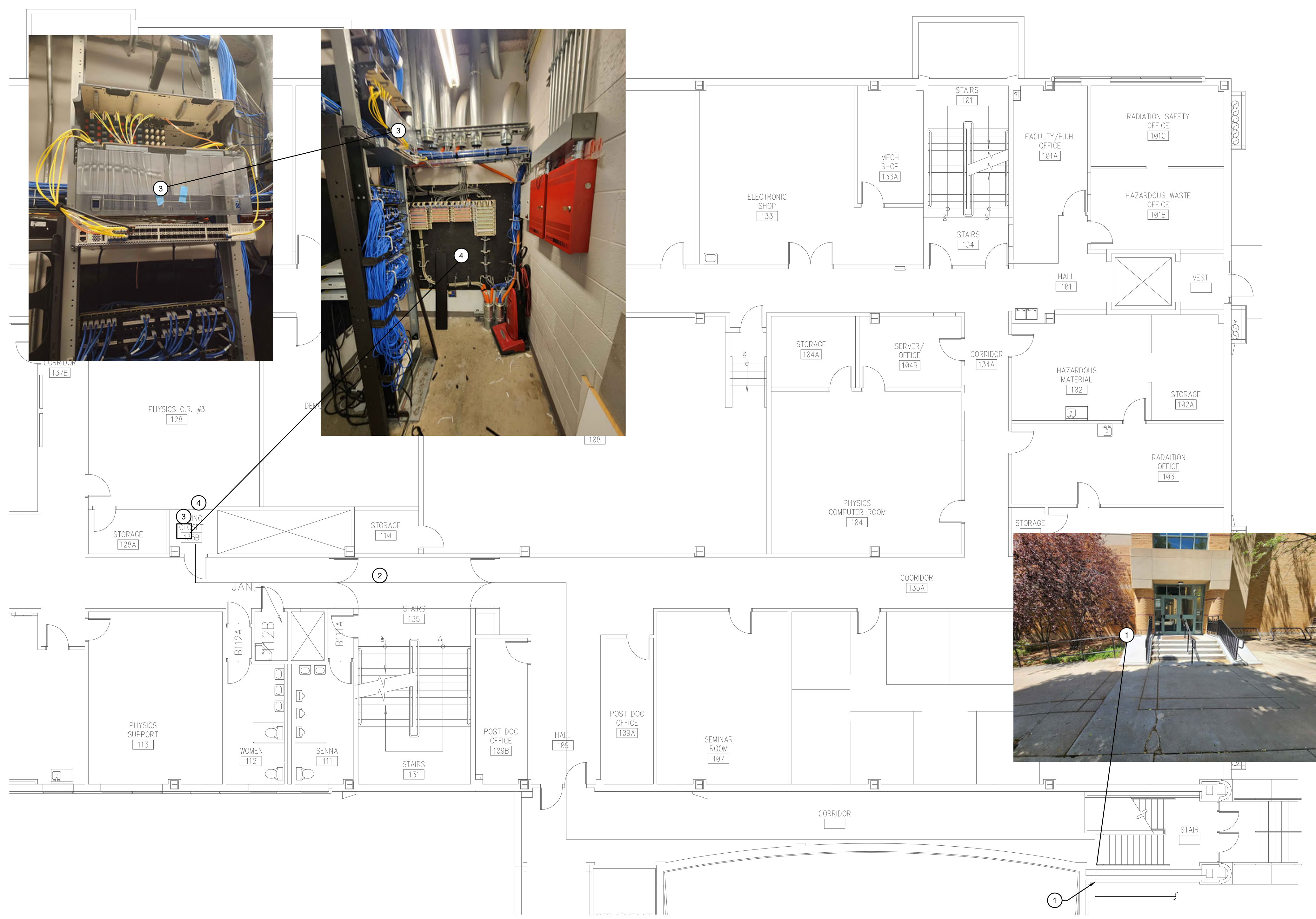
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 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E401

**KEYED NOTES:**

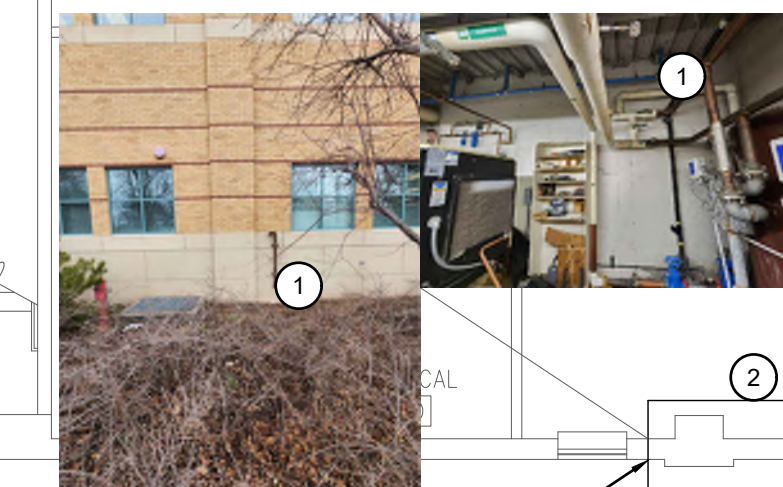
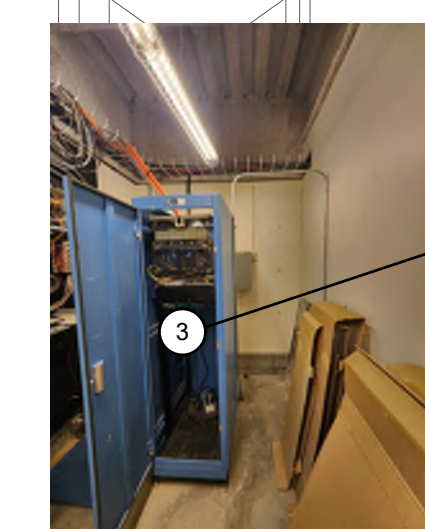
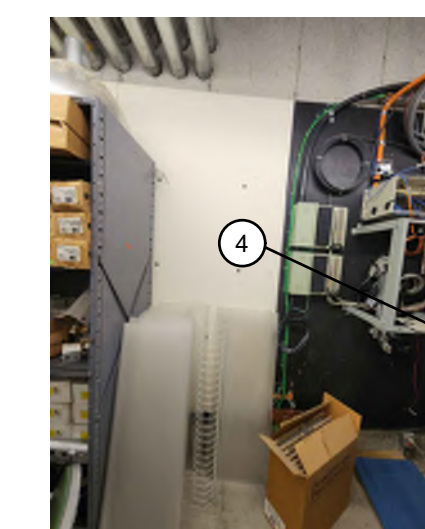
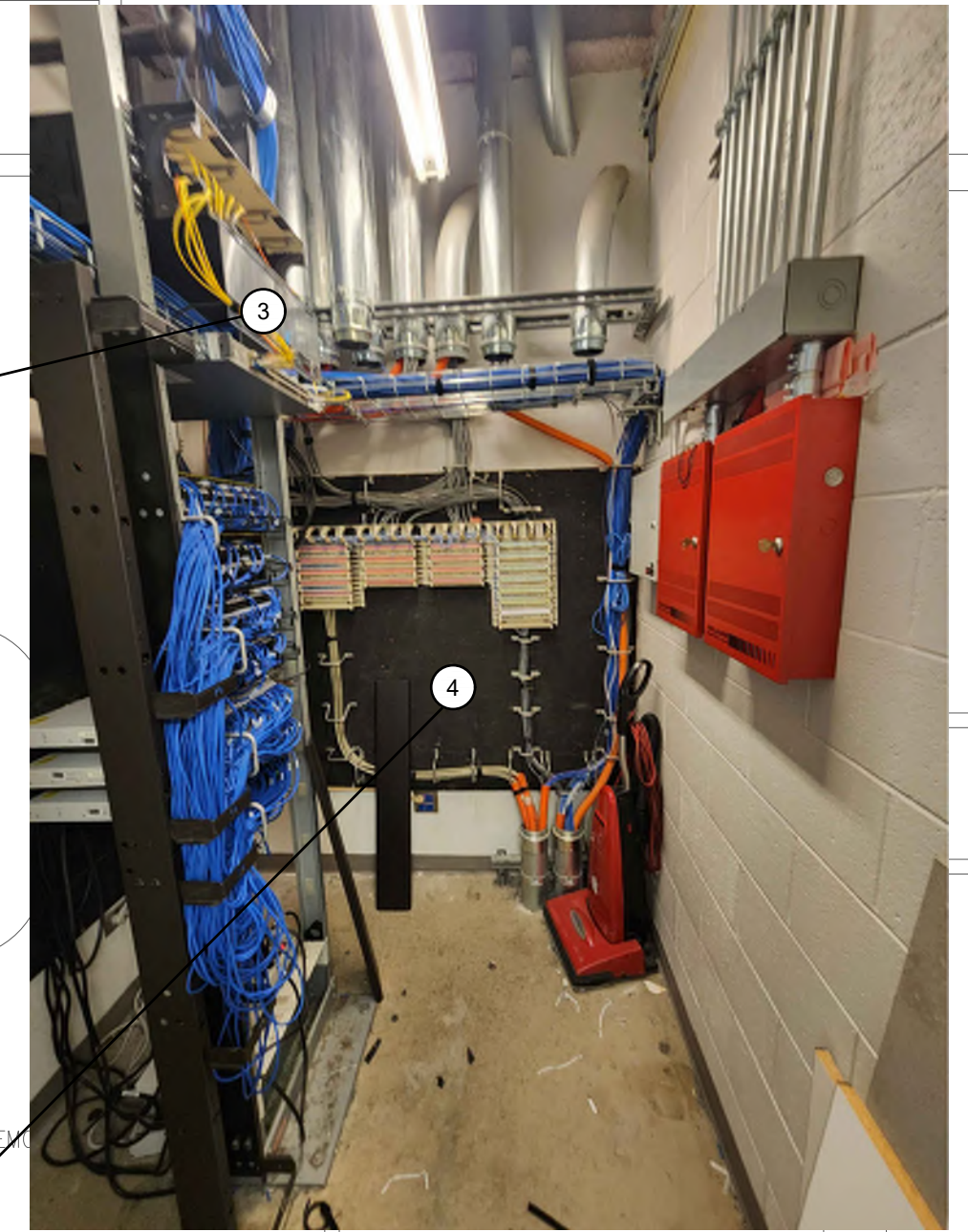
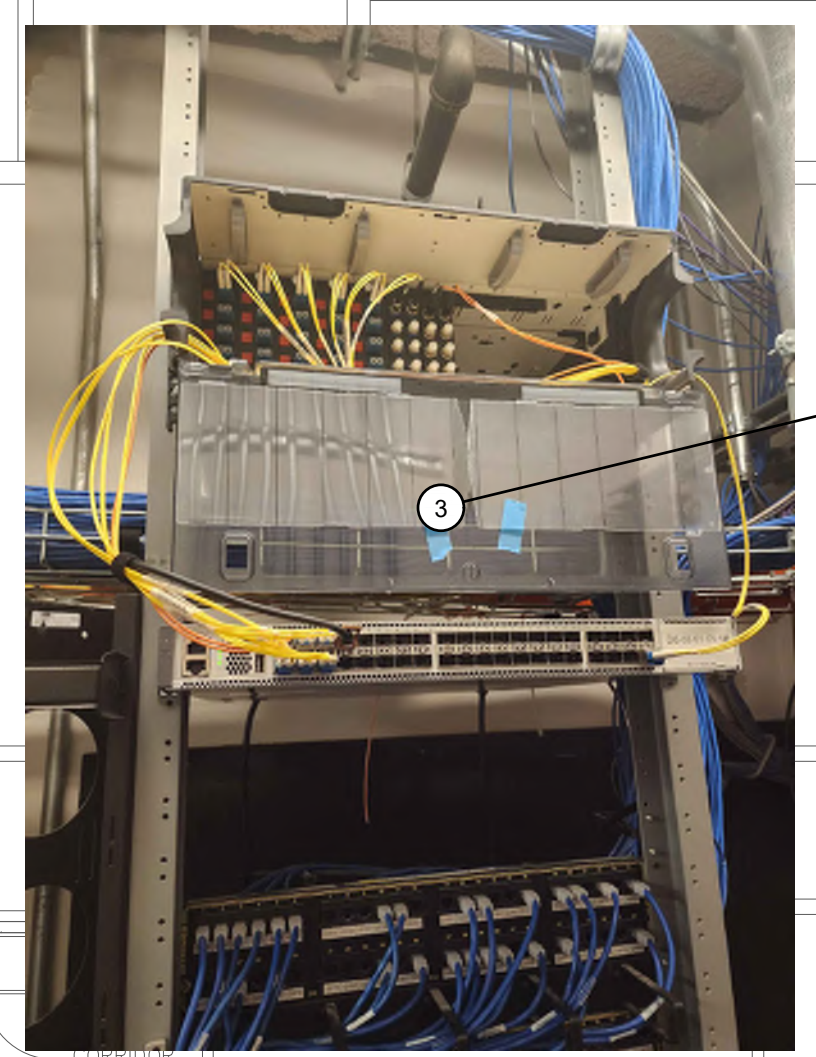
- # SYMBOL USED FOR NOTE CALLOUT.
- CORE DRILL 4" CONDUITS THROUGH WALL INTO CEILIGN SPACE AND SEAL GAP BETWEEN WALL AND CONDUITS.
  - 4" C INSTALL WITH 2 MXED86383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER COPPER CABLE TO BE INSTALLED.
  - EXISTING FIBER PANEL RACK, INSTALL NEW FIBER TERMINATION PANEL.
  - EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATION THIS LOCATION.
  - EXISTING CABLE TRAY TO REMAIN, INSTALL COPPER AND FIBEROPTIC CABLES IN EXISTING CABLE TRAY.

**GENERAL NOTES:**

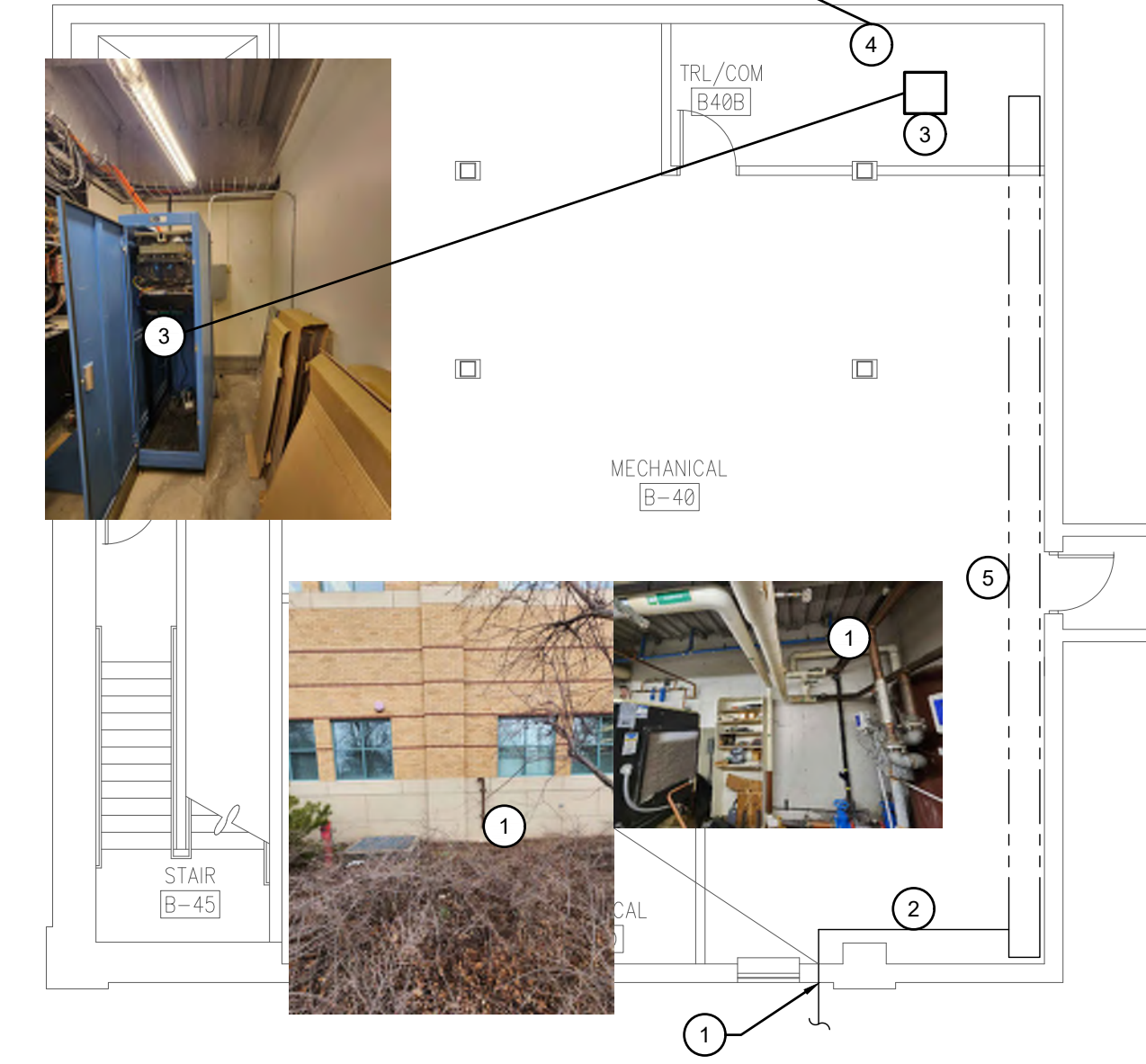
- SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.



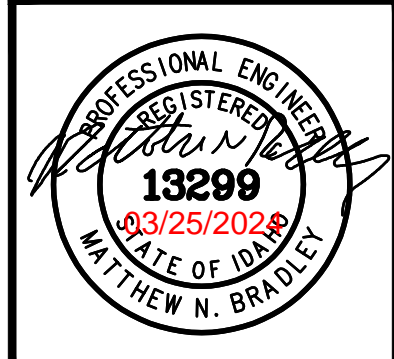
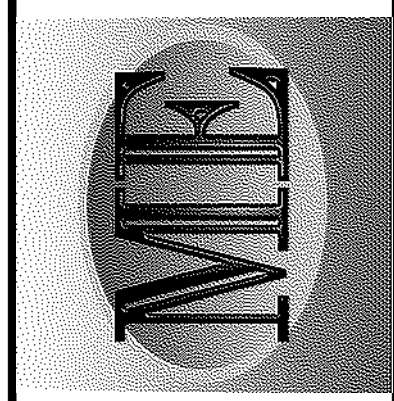
**1 BLDG 03 - PHYSICAL SCIENCE - 1ST FLOOR**  
 1/8" = 1'-0"



**1 BLDG 03A - CHEMISTRY - BASEMENT**  
 1/8" = 1'-0"







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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 BUILDING 04 LIBERAL ARTS

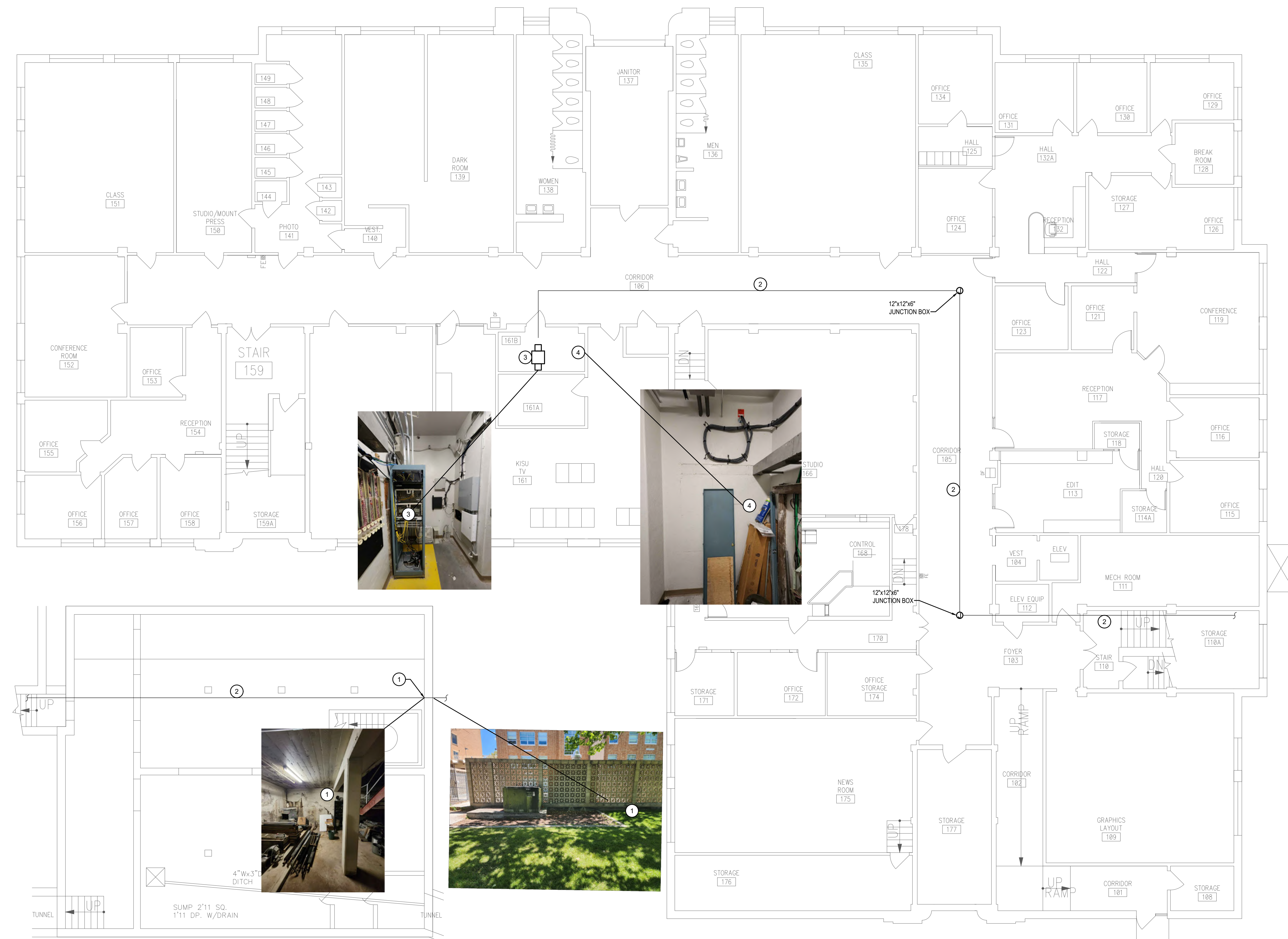
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 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E402

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
1. DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
  2. 4" C INSTALL WITH 2 MXED86383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER COPPER CABLE TO BE INSTALLED.
  3. EXISTING FIBER PANEL RACK, INSTALL NEW FIBER TERMINATION PANEL.
  4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATION THIS LOCATION.

**GENERAL NOTES:**

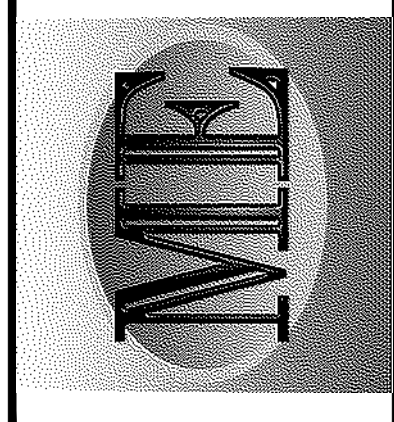
1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.



**1** BLDG 04 - LIBERAL ARTS - BASEMENT SUB  
 1/8" = 1'-0"

**1** BLDG 04 - LIBERAL ARTS - 1ST FLOOR  
 1/8" = 1'-0"



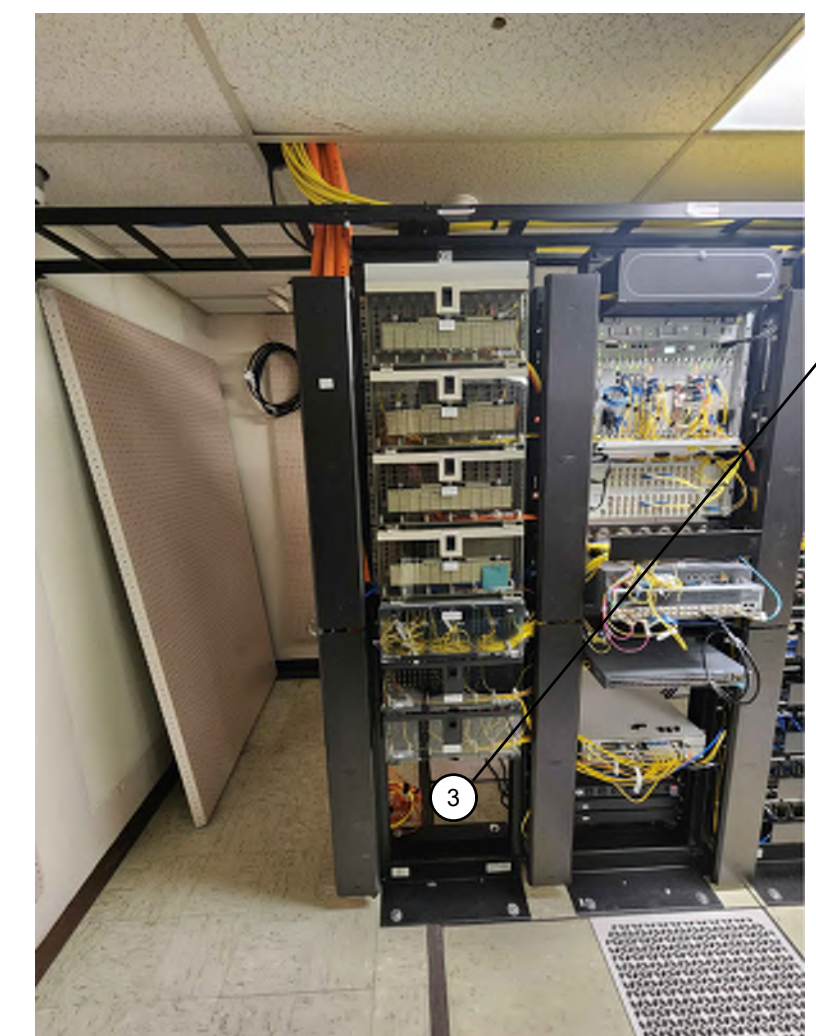
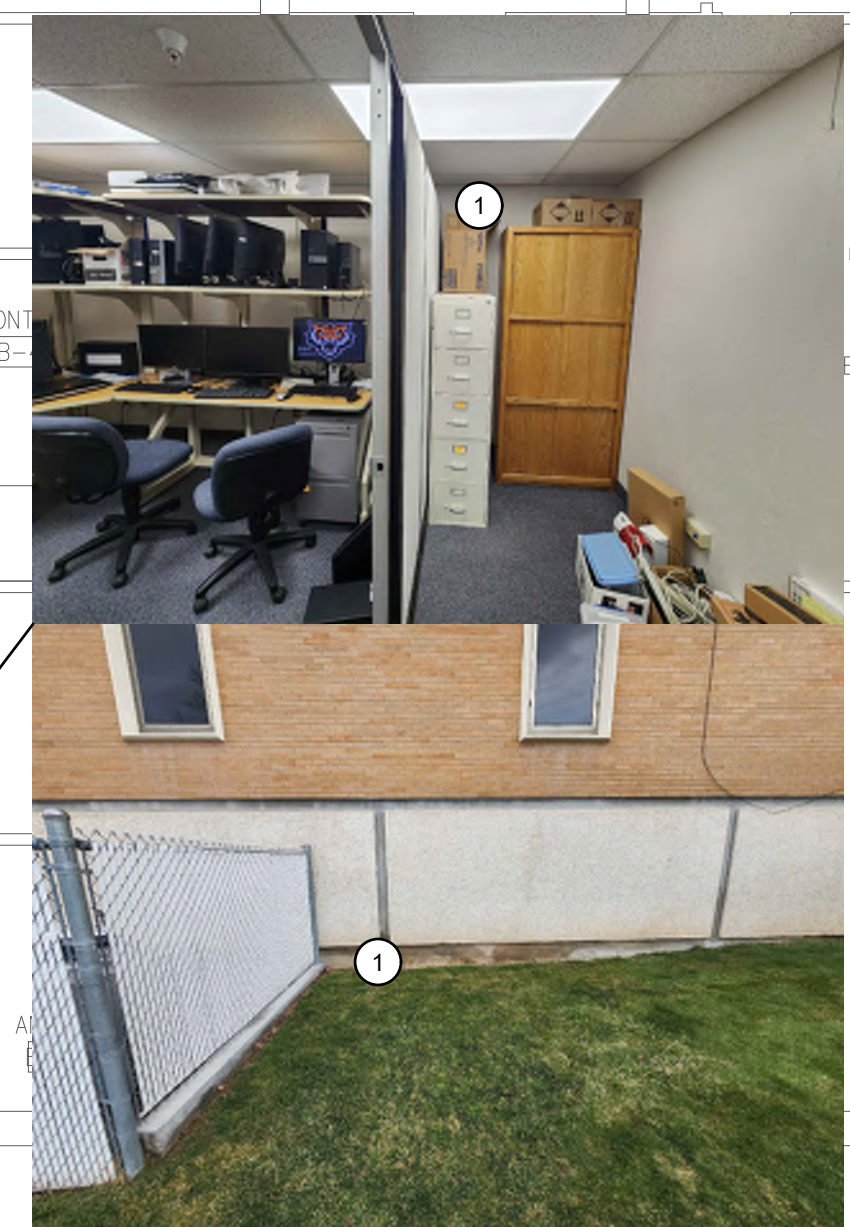
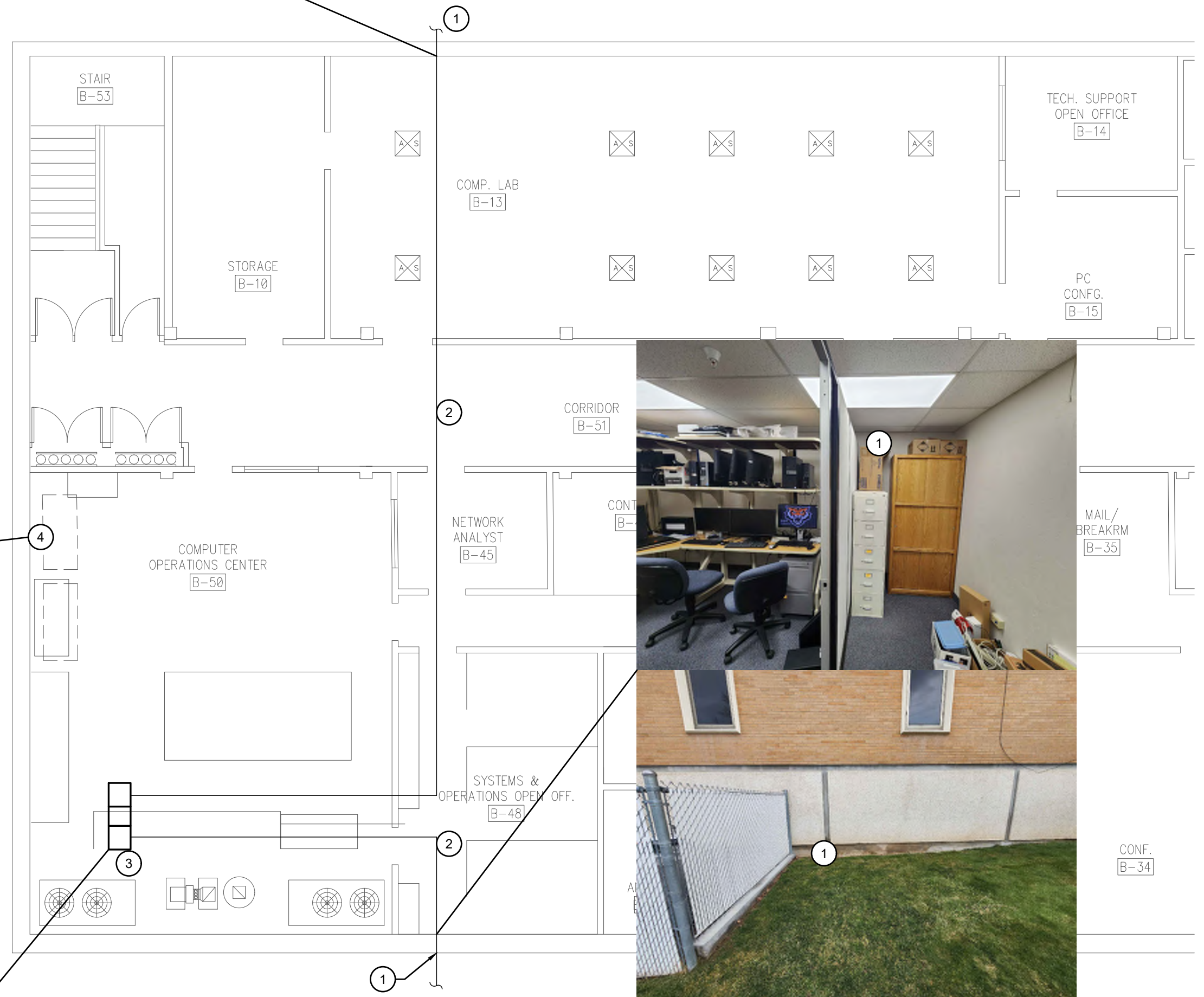
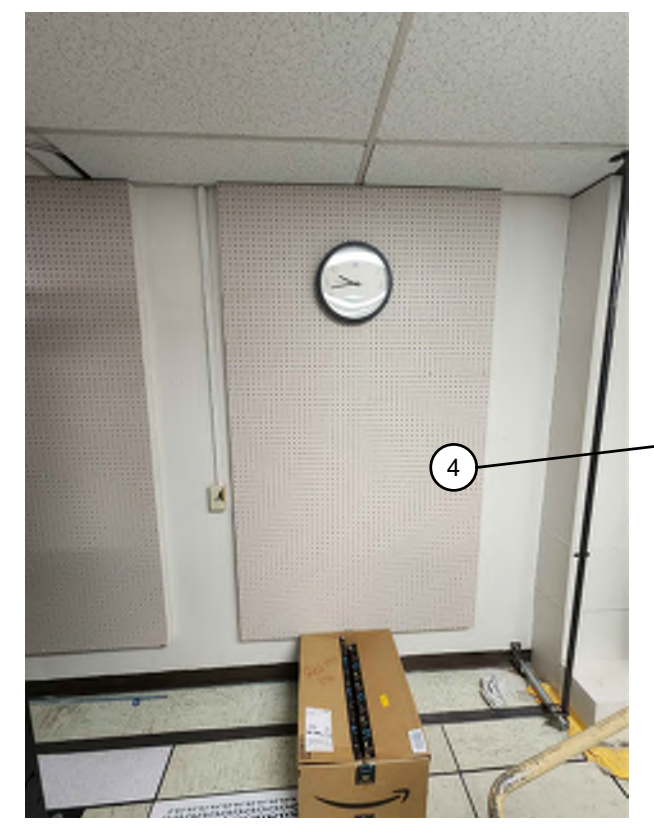


**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. CORE DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM CEILING SPACE AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 2. 4"Ø INSTALL WITH 2 MxED66383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER COPPER CABLE TO BE INSTALLED.
- 3. EXISTING FIBER PANEL RACK, INSTALL NEW FIBER TERMINATION PANEL.
- 4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATION THIS LOCATION.

**GENERAL NOTES:**

- 1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.



**1 BLDG 05 - BUSINESS - BASEMENT LEVEL**  
 1/8" = 1'-0"

NO.	REVISIONS	DATE
1		

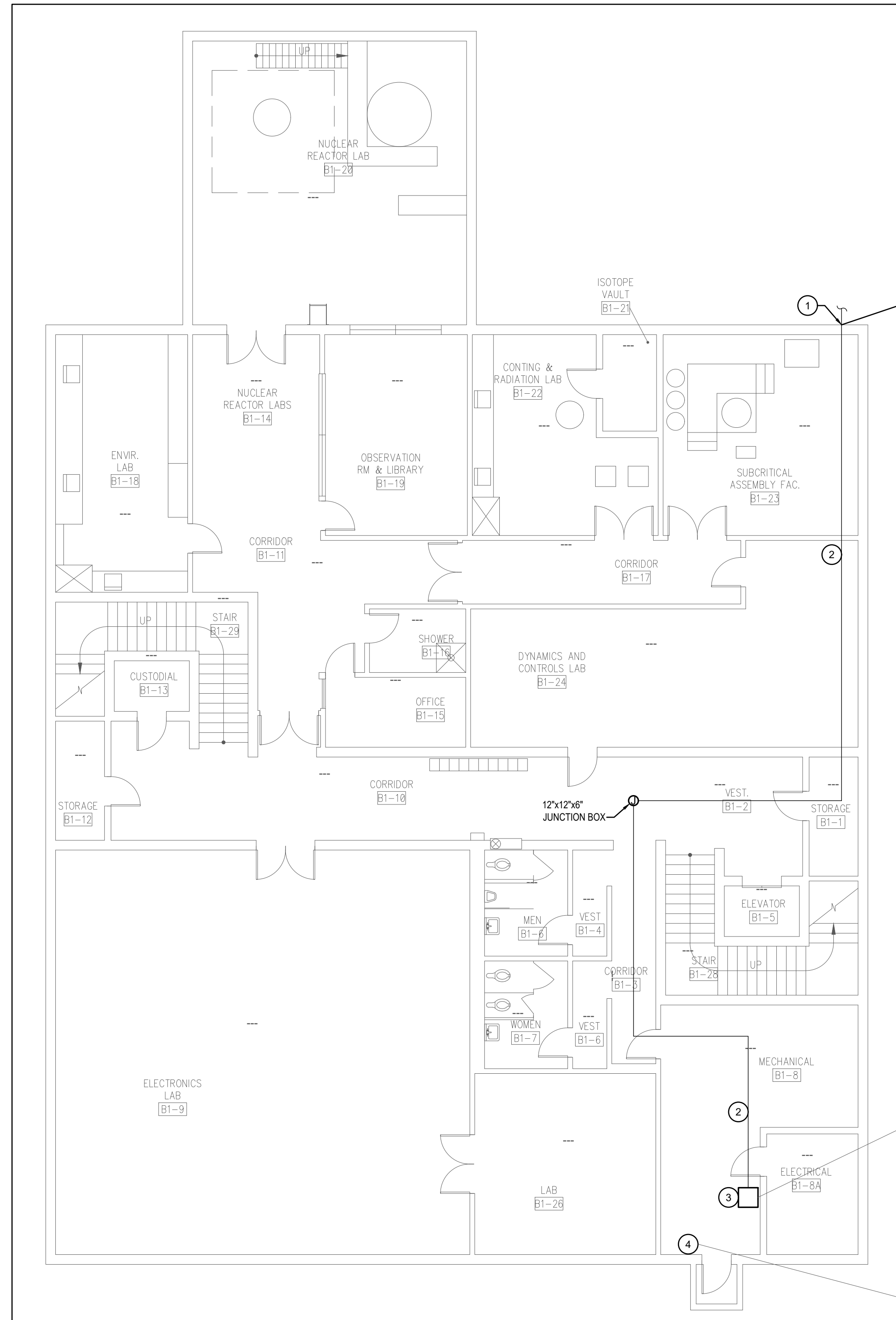
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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

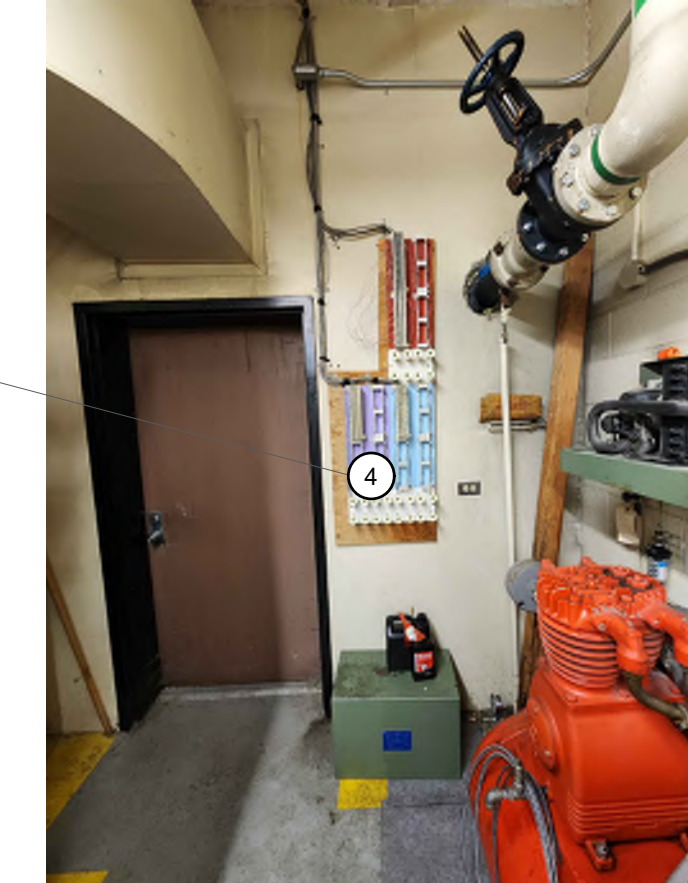
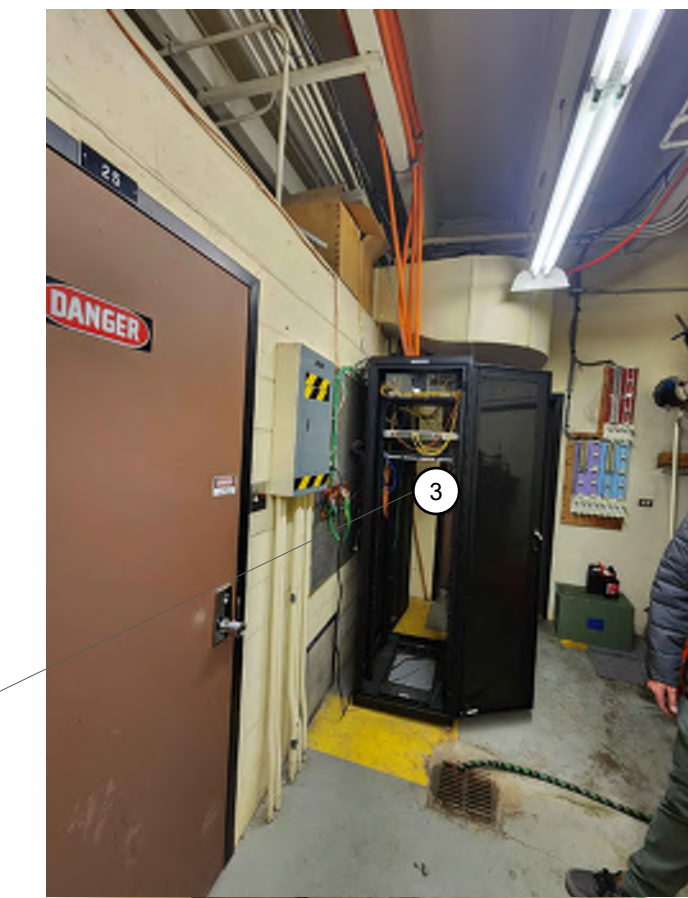
IDAHO STATE UNIVERSITY  
 BUILDING 05 BUSINESS  
 BASEMENT LEVEL

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E403



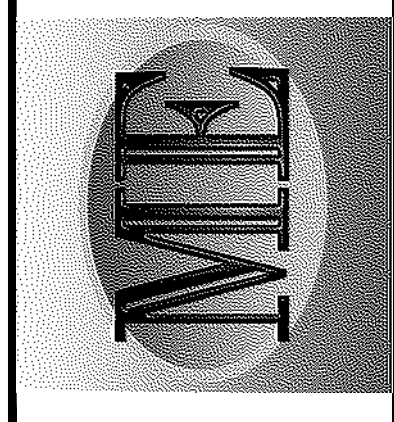


**1** BLDG 07 - LILLBRIDGE ENGINEERING - BASEMENT LEVEL  
1/8" = 1'-0"



**MUSGROVE ENGINEERING, P.A.**  
234 S. Whisperwood Way  
Boise, ID 83709  
208.384.6585  
645 West 25th Street  
Idaho Falls, ID 83402  
208.523.2862  
www.musgrovepa.com  
PROJECT NO. 22-359

**KELLER ASSOCIATES**  
305 North 3rd Ave, Suite A  
Pocatello, Idaho 83201  
(208) 238-2146



**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
1. DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
  2. 4" C INSTALL WITH 2 MXED86383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER COPPER CABLE TO BE INSTALLED.
  3. EXISTING FIBER PANEL RACK, INSTALL NEW FIBER TERMINATION PANEL.
  4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATION THIS LOCATION.

**GENERAL NOTES:**

1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.

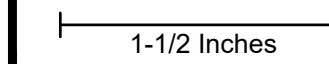
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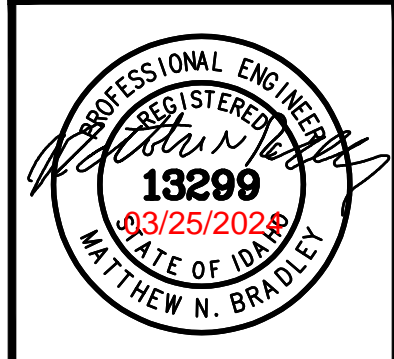
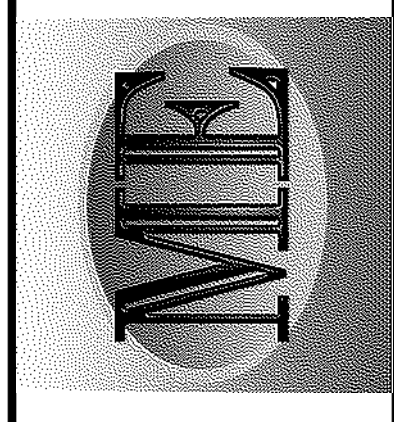
DPW PROJECT #21-654  
ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
BUILDING 07 LILLBRIDGE  
ENGINEERING - BASEMENT LEVEL

DRAWN: DBH | CHECK: MNB  
VERIFY SCALE: Scales based on 22"x34" prints.  
PROJECT NO. 208106-088  
SHEET NO. E404







NO.	REVISIONS	DATE
1		7/15/2022

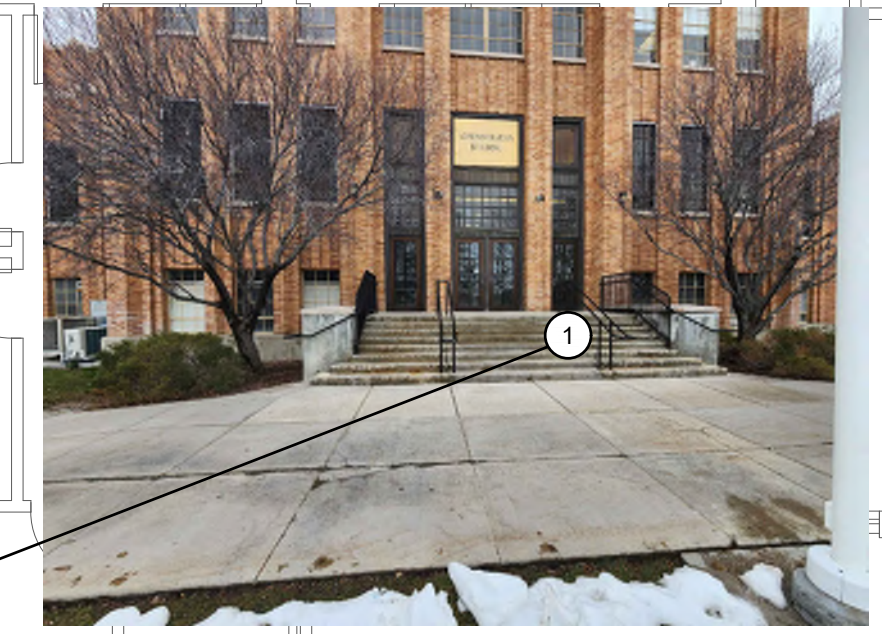
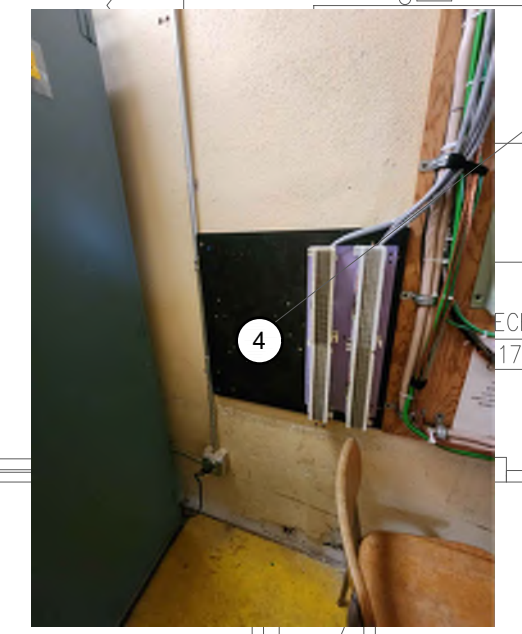
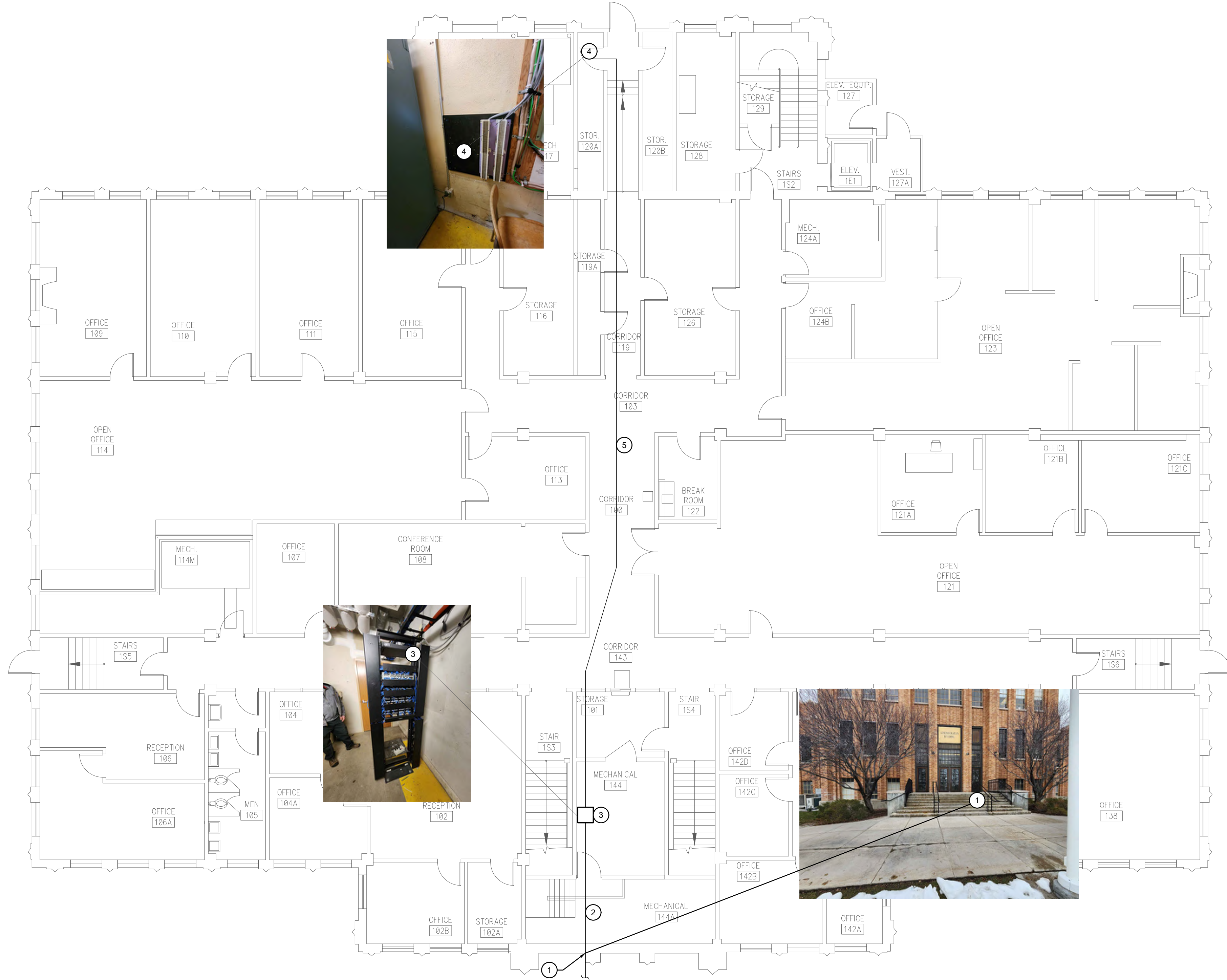
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 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 BUILDING 10 ADMINISTRATION  
 FIRST LEVEL

DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E405



**1 BLDG 10 - ADMINISTRATION - FIRST LEVEL**  
 1/8" = 1'-0"

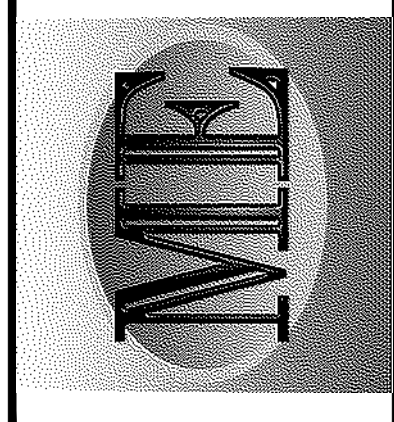
**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 2. 4" INSTALL WITH 2 MXED86383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER COPPER CABLE TO BE INSTALLED.
- 3. EXISTING FIBER PANEL RACK, INSTALL NEW FIBER TERMINATION PANEL.
- 4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATION THIS LOCATION.
- 5. INSTALL COPPER RISER TO NEW COPPER TERMINATIONS, UTILIZE EXISTING WOODEN TRAY THROUGH HALLWAY FOR PATHWAY TO TELEPHONE BACKBOARD.

**GENERAL NOTES:**

- 1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.





PROFESSIONAL ENGINEER  
 REGISTERED IN THE STATE OF IDAHO  
 13299  
 03/25/2028  
 MATTHEW N. BRADLEY

NO.	REVISIONS	DATE
1		

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DPW PROJECT #21-654  
 ISU: REPAIR UTILITY TUNNEL

IDAHO STATE UNIVERSITY  
 BUILDING 50 OBOLER LIBRARY  
 FIRST LEVEL

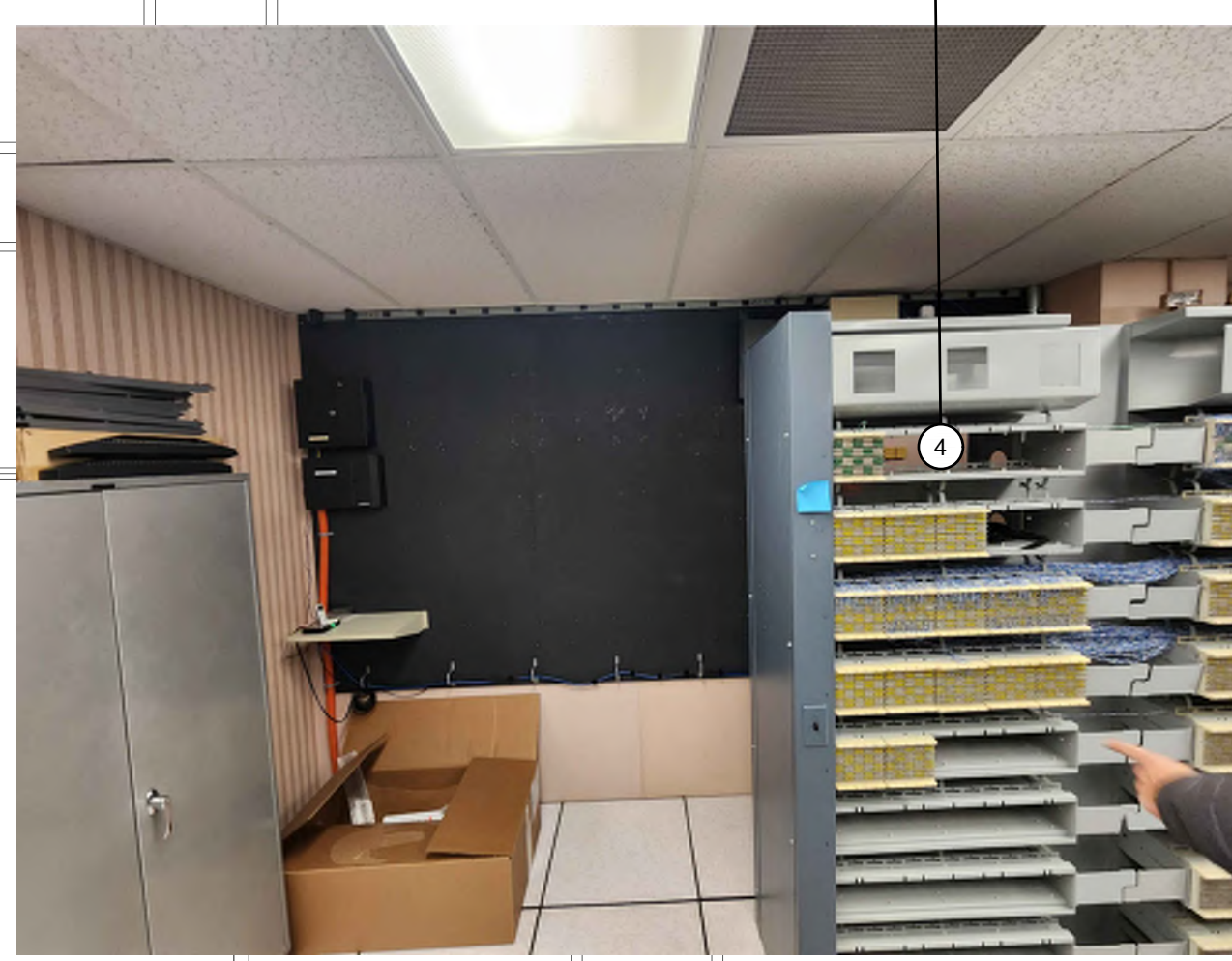
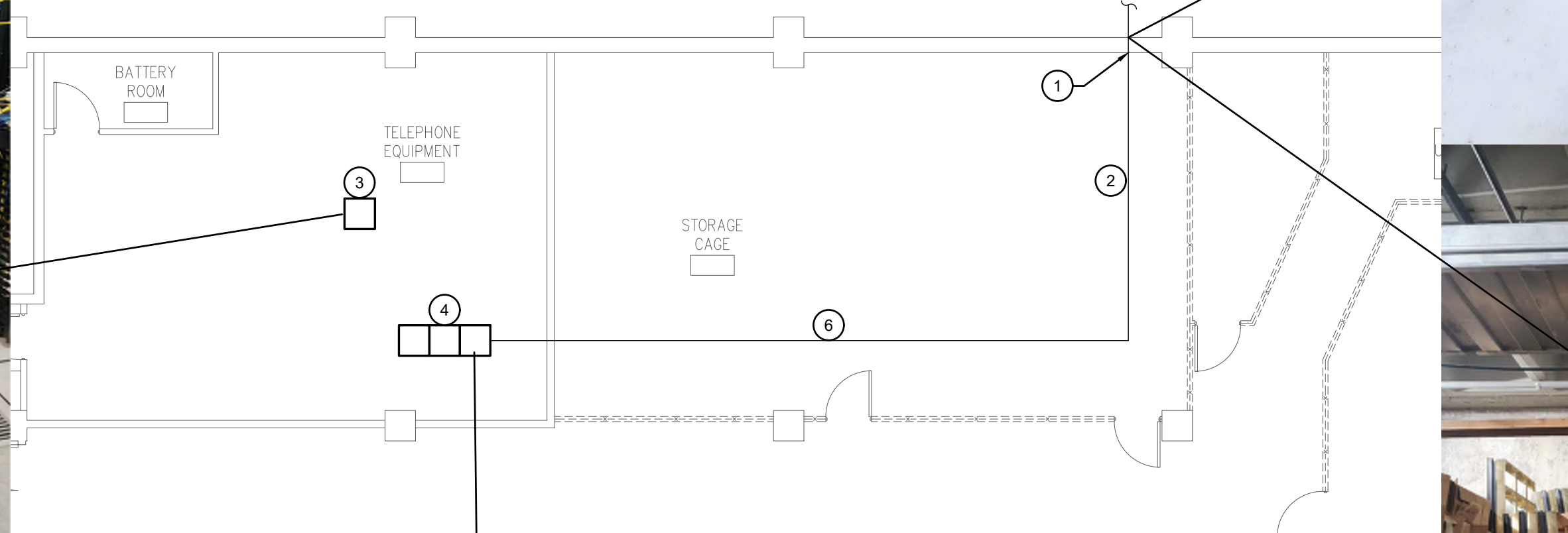
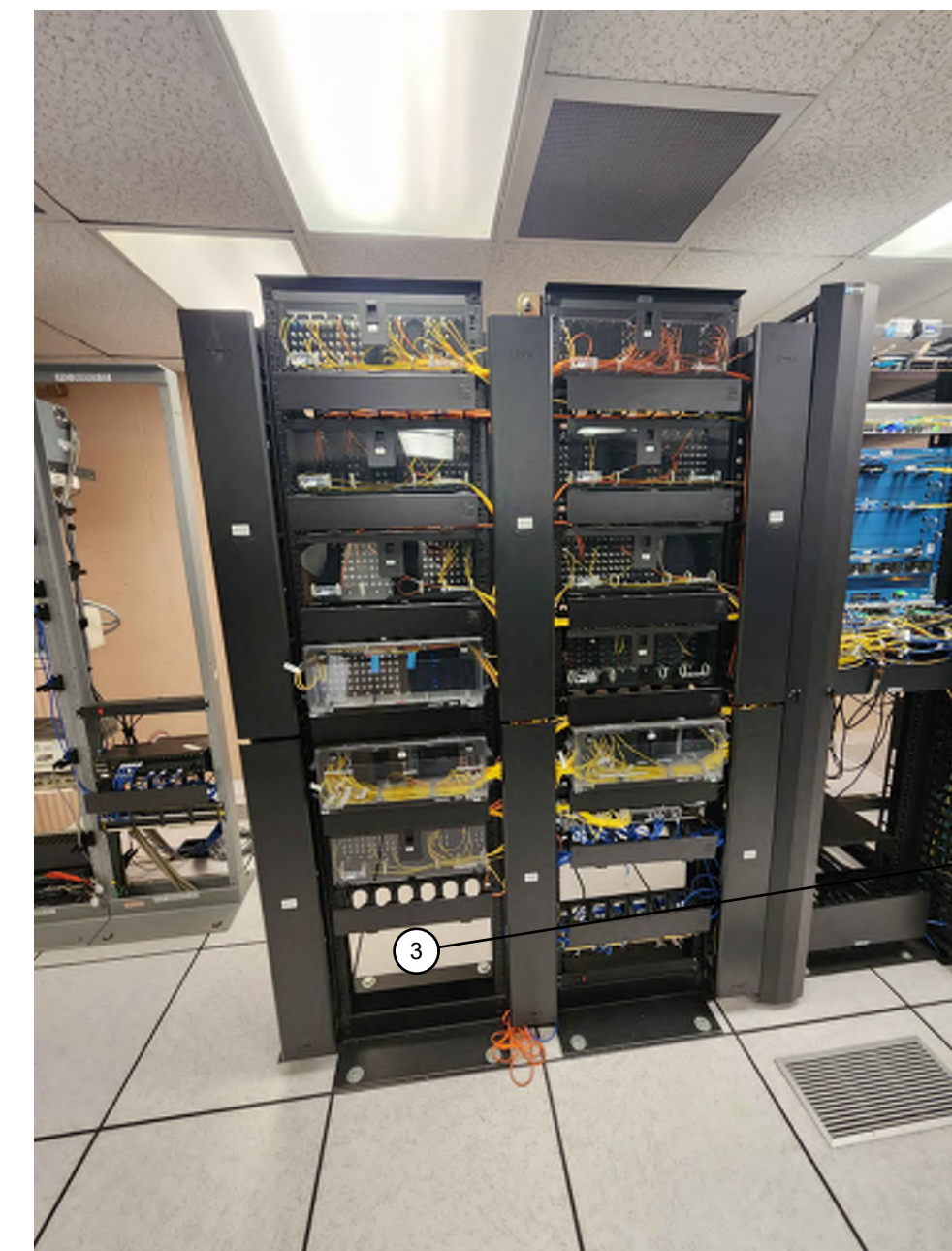
DRAWN: DBH | CHECK: MNB  
 VERIFY SCALE: Scales based on 22"x34" prints.  
 PROJECT NO. 208106-088  
 SHEET NO. E406

**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. DRILL 4" CONDUITS THROUGH WALL INTO IT ROOM AND SEAL GAP BETWEEN WALL AND CONDUITS.
- 2. 4" CONDUIT WITH 2 MXED86383 MAXCELL INNERDUCTS. SEE DETAIL A ON DRAWING E301 FOR FIBER COPPER CABLE TO BE INSTALLED.
- 3. EXISTING FIBER PANEL RACK, INSTALL NEW FIBER TERMINATION PANEL.
- 4. EXISTING TELEPHONE BACKBOARD, INSTALL NEW COPPER CABLES AND TERMINATION THIS LOCATION.
- 5. INSTALL COPPER RISER TO NEW COPPER TERMINATIONS, UTILIZE EXISTING WOODEN TRAY THROUGH HALLWAY FOR PATHWAY TO TELEPHONE BACKBOARD.
- 6. EXISTING CABLE TRAY CAN BE USED AS PATHWAY TO IT ROOM.

**GENERAL NOTES:**

- 1. SEE SPECIFICATION SECTION 27 15 00 FOR ISU NETCOMM INSTALLATION SPECIFICATIONS.



**1** BLDG 50 - OBOLER LIBRARY - FIRST LEVEL  
 1/8" = 1'-0"