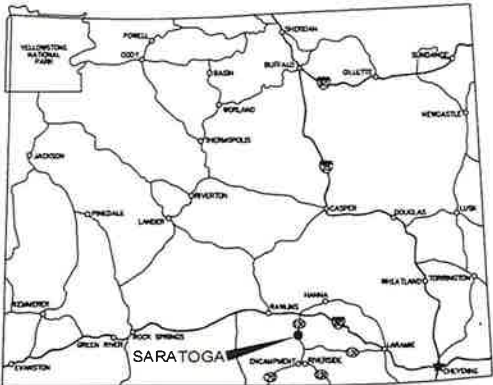


2026 SHIVELY FIELD GRAVITY SEWER IMPROVEMENTS

SARATOGA, WY

PROJECT FUNDING:
TOWN OF SARATOGA
AIRPORT



LOCATION MAP
WYOMING

OWNER:
TOWN OF SARATOGA
PO BOX 486
SARATOGA, WY 82331
307-326-8335

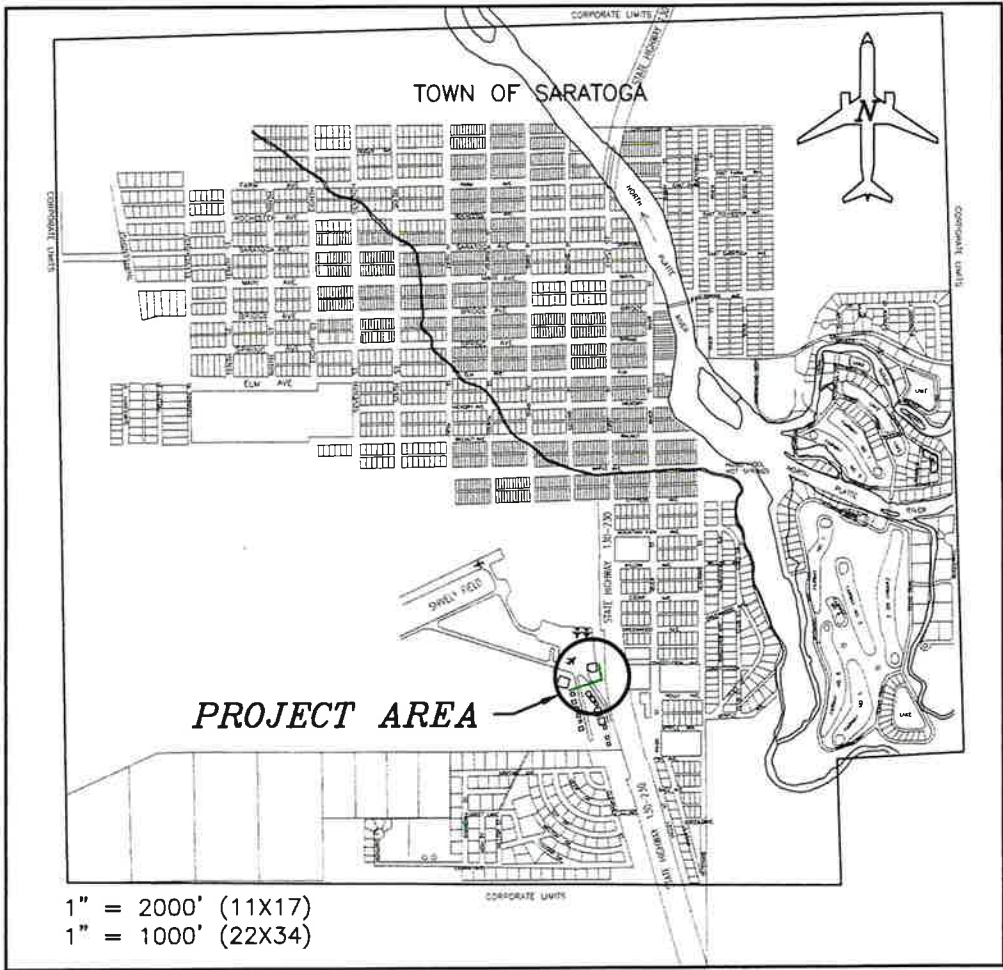
ENGINEER:
ENGINEERING ASSOCIATES
P.O. BOX 370
SARATOGA, WY 82331

CONTACTS:

ENGINEERING ASSOCIATES:	CRAIG KOPASZ 307-326-8301
TOWN OF SARATOGA:	EMERY PENNER 307-326-8335

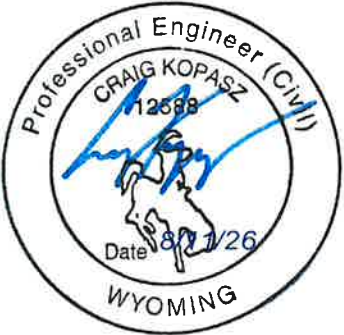
BASIS OF SURVEY

COORDINATE SYSTEM:	US STATE PLANE 1983
PROJECT DATUM:	NAD 1983 (CONUS)
ZONE:	WYOMING EAST CENTRAL 4902
GEOID MODEL:	GEOID18 (CONUS)
SCALE FACTOR:	1.0003650597



DRAWING INDEX

SHEET #	SHEET TITLE
-	TITLE
SP	SITE PLAN
1	STA 10+00 TO STA 12+60
2	STA 12+60 TO STA 15+91
3	SANITARY SEWAGE DUMP STATION
4	DETAILS



SET NO. _____

LEGEND

PROPOSED

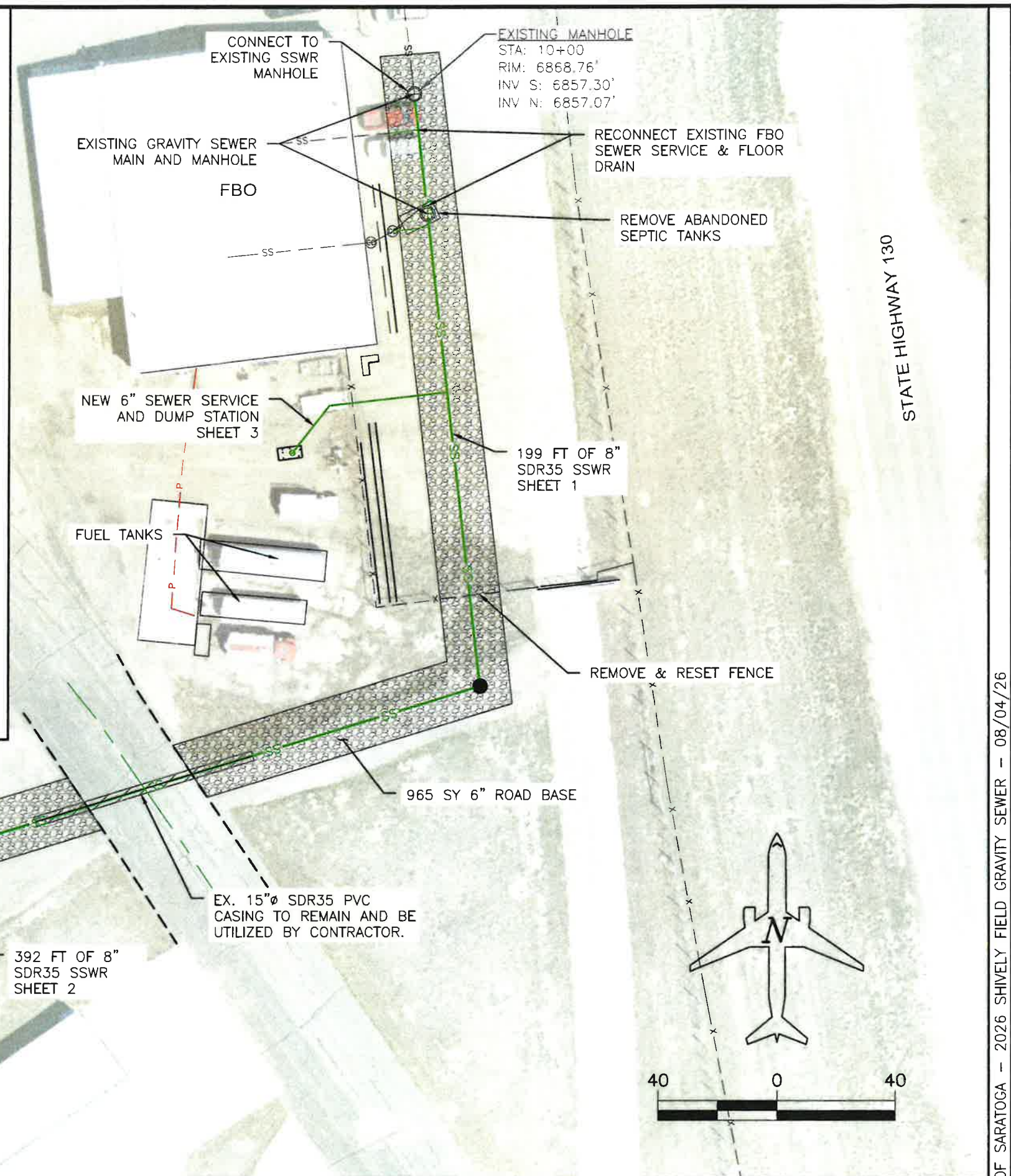
EXISTING

DESCRIPTION

	SS	SANITARY SEWER MAIN
	SS	SANITARY SEWER SERVICE
	W	WATER MAIN
	P	UNDERGROUND POWER LINE
	FO	FIBER OPTIC LINE
		GAS LINE
		UNDERGROUND TELEPHONE
	OPU	OVERHEAD POWER LINE
		LOT/BLOCK BOUNDARY
	X	FENCE
	ST	CULVERT
		SANITARY SEWER MANHOLE
		SEWER CLEANOUT
		POWER POLE
		POWER JUNCTION BOX
		FIBER OPTIC BOX
		TELEPHONE BOX
		GAS VALVE
		GAS METER

NOTES:

1. PROTECT EX. UTILITIES DURING CONSTRUCTION.
2. PROVIDE TRAFFIC CONTROL AND COORDINATE WITH FBO DURING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL BE DONE WITH ACCORDANCE WITH FAA RULES AND REGULATIONS, INCLUDING MATERIALS USED, SUCH AS ASPHALT SURFACING.
4. CONTRACTOR SHALL CALL 811 FOR UTILITY LOCATES BEFORE CONSTRUCTION.
5. ALL NEW SEWER MAIN SHALL BE 8" SDR35 PVC PIPE AND SHALL BE BEDDED IN ACCORDANCE WITH THE DETAILS.
6. SEPARATION BETWEEN ALL WATER AND SEWER MAINS SHALL BE IN COMPLIANCE WITH WYDEQ RULES AND REGULATIONS. WHERE HORIZONTAL AND VERTICAL SEPARATION IS NOT ACHIEVABLE, PIPE WILL BE CASED OR ENCASED WITH FLOWABLE FILL. ANTICIPATED FLOWFILL LOCATIONS ARE SHOWN IN PLAN VIEW FOR REFERENCE.
7. ALL BACKFILL SHALL MEET 95% ASTM D698, +2/-3% MOISTURE IN ALL AREAS UNLESS OTHERWISE NOTED.
8. PROPOSED MANHOLE LIDS SHALL BE 2" BELOW FINISHED GRADE WHERE SURFACING IS ROAD BASE/NATIVE MATERIAL AS SHOWN IN THE DETAILS.
9. PROPOSED MANHOLE COLLARS WITHIN PAVED STREETS SHALL BE SET $\frac{3}{8}$ " BELOW EXISTING OR PROPOSED GRADE AS SHOWN IN THE DETAILS.



BRUSH CREEK
HANGAR

EX. 15"Ø SDR35 PVC
CASING TO REMAIN AND BE
UTILIZED BY CONTRACTOR.

250 SY SEEDING
20FT WIDTH-TYP.

NEW MANHOLE (TYP.)
PLUG SOUTH FOR
FUTURE CONNECTION

392 FT OF 8"
SDR35 SSWR
SHEET 2

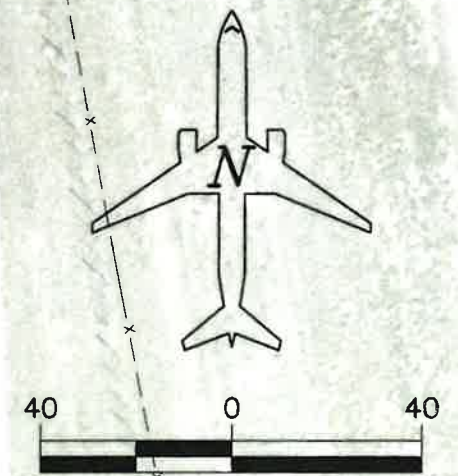
EX. 15"Ø SDR35 PVC
CASING TO REMAIN AND BE
UTILIZED BY CONTRACTOR.

965 SY 6" ROAD BASE

199 FT OF 8"
SDR35 SSWR
SHEET 1

REMOVE & RESET FENCE

STATE HIGHWAY 130



DATE: Aug 05, 2026 - 3:45pm CAD OPERATOR: LHM
LAYOUT NAME: See Plan List OF XREFS:
DRAWING TELENAME: P:\2026\Shively Field Gravity Sewer\Main\2026-08-05 Shively Field Gravity Sewer.dwg

DATE	DRAWING LOG	BY	CHECKED	APPROVED	DRAWN BY: LHM	DATE: 08/04/2026
					JOB NO.: 26415.00	SCALE: AS SHOWN
					FIELD BOOK NO.:	

ENGINEERING ASSOCIATES
211 N. FIRST ST.
P.O. BOX 370
SARATOGA, WY 82331
(307) 326-8301
A WYOMING CORPORATION

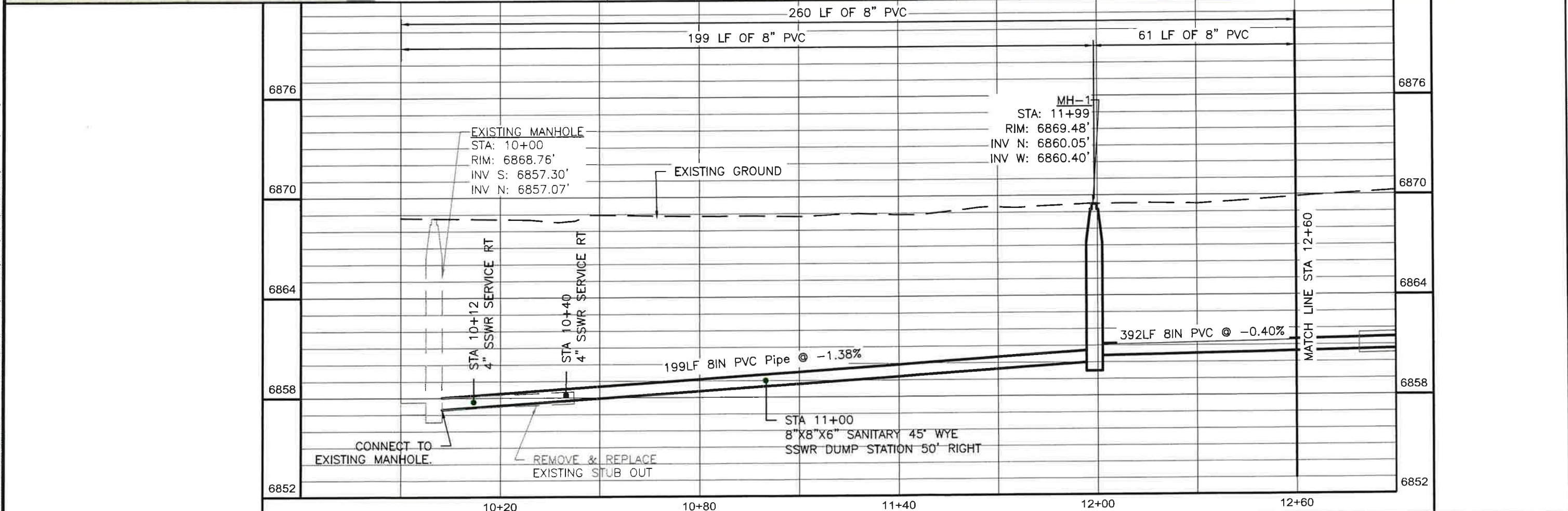
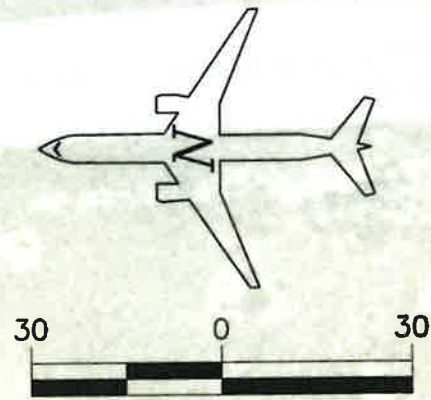
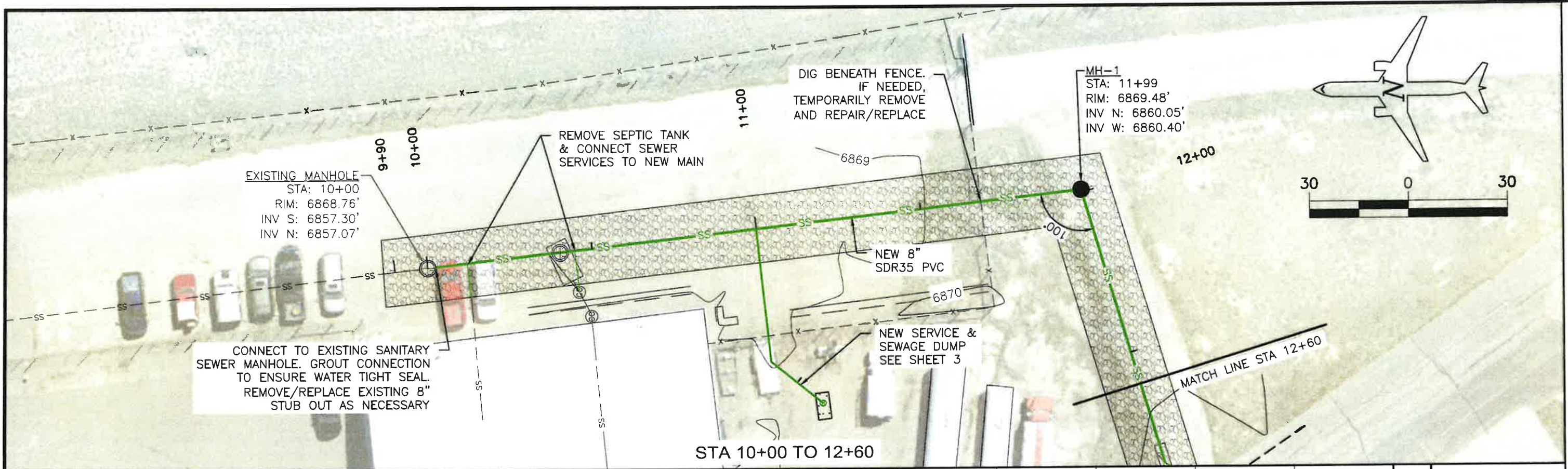
CLIENT:

TOWN OF SARATOGA

PROJECT:	2026 SHIVLEY FIELD GRAVITY SEWER
TITLE:	OVERALL SITE PLAN

SHEET
SP
OF

TOWN OF SARATOGA - 2026 SHIVLEY FIELD GRAVITY SEWER - 08/04/26



DATE: Aug 05, 2026 - 3:45pm CAD OPERATOR: LHM
LAYOUT NAME: 10+00 TO 12+60 LHM OF XREFS
DRAWING FILENAME: P:\2026\Shively Field Gravity Sewer\26415.00 - Shively Field Gravity Sewer\26415.00 - 26415.00\26415.00 - 26415.00.dwg

DATE	DRAWING LOG	BY	CHECKED	APPROVED	DRAWN BY: LHM	DATE: 08/04/2026
					JOB NO.: 26415.00	SCALE: AS SHOWN
					FIELD BOOK NO.:	

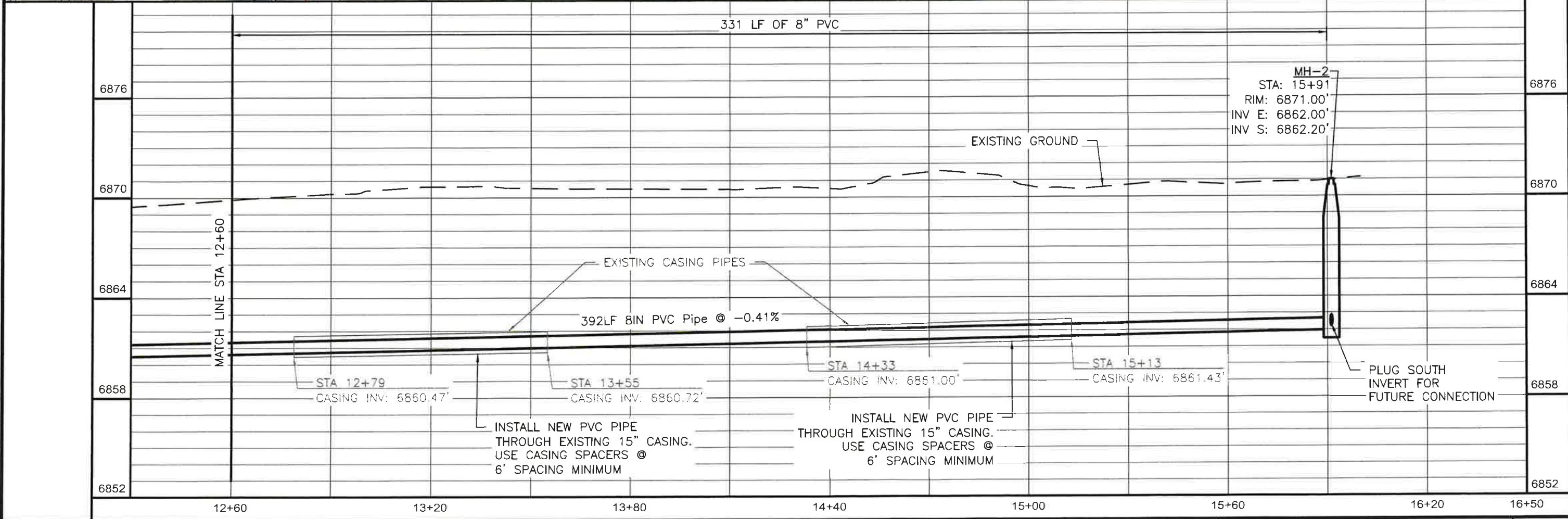
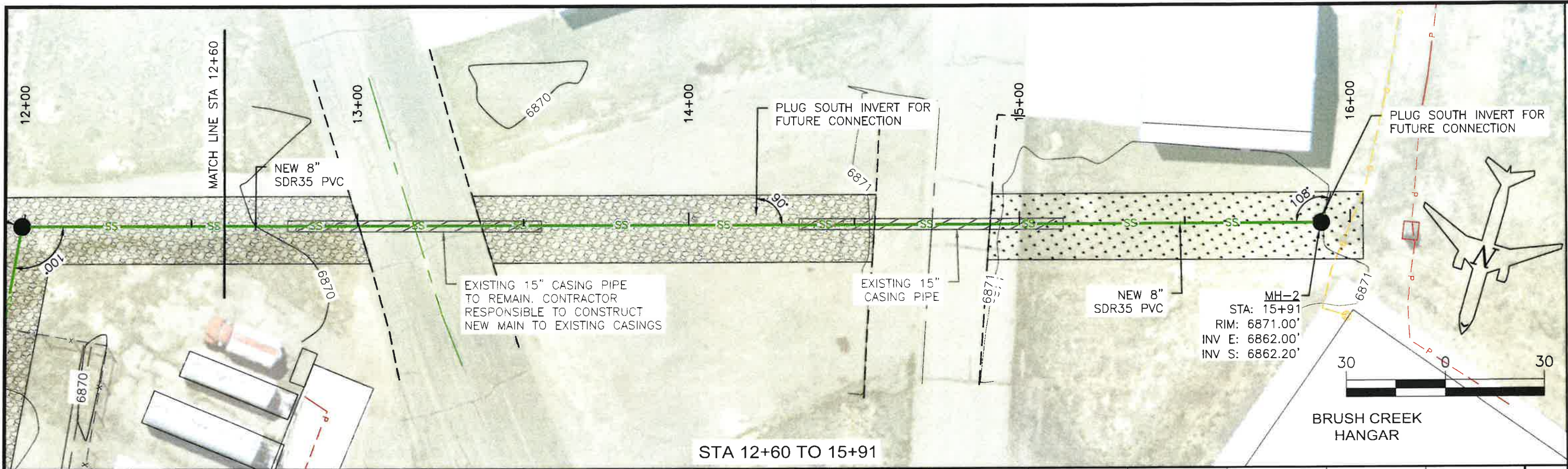
ENGINEERING ASSOCIATES
A WYOMING CORPORATION

211 N. FIRST ST.
P.O. BOX 370
SARATOGA, WY 82331
(307) 328-8301

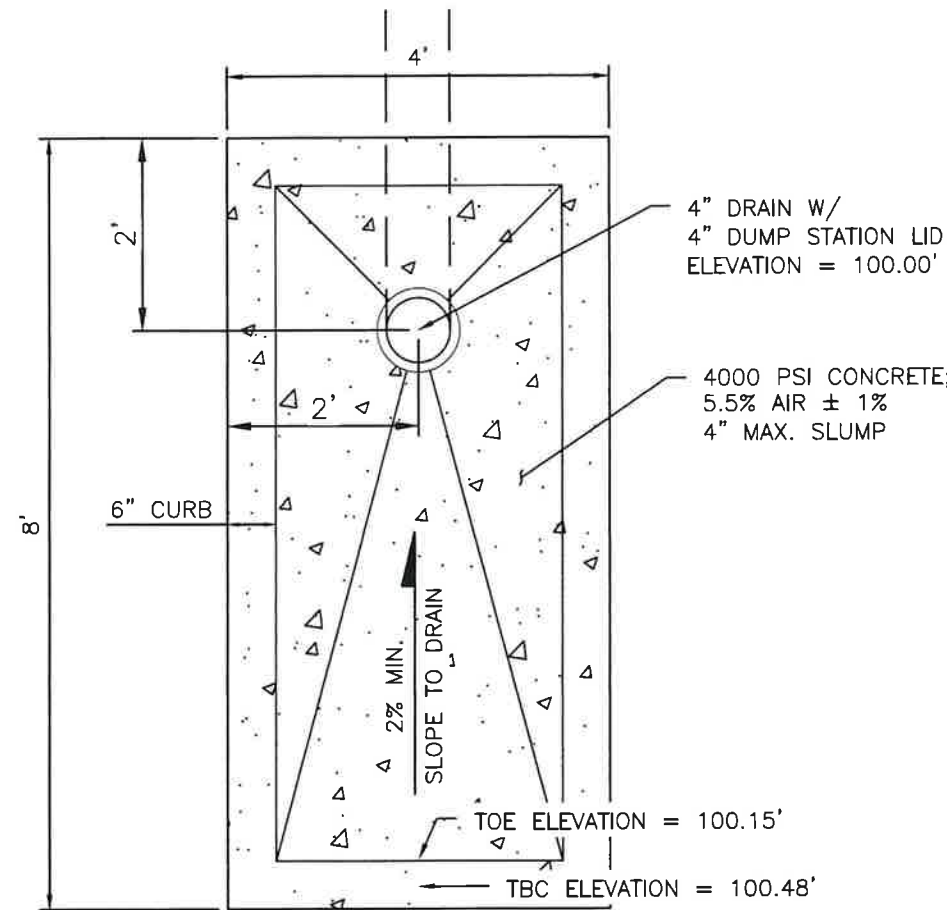
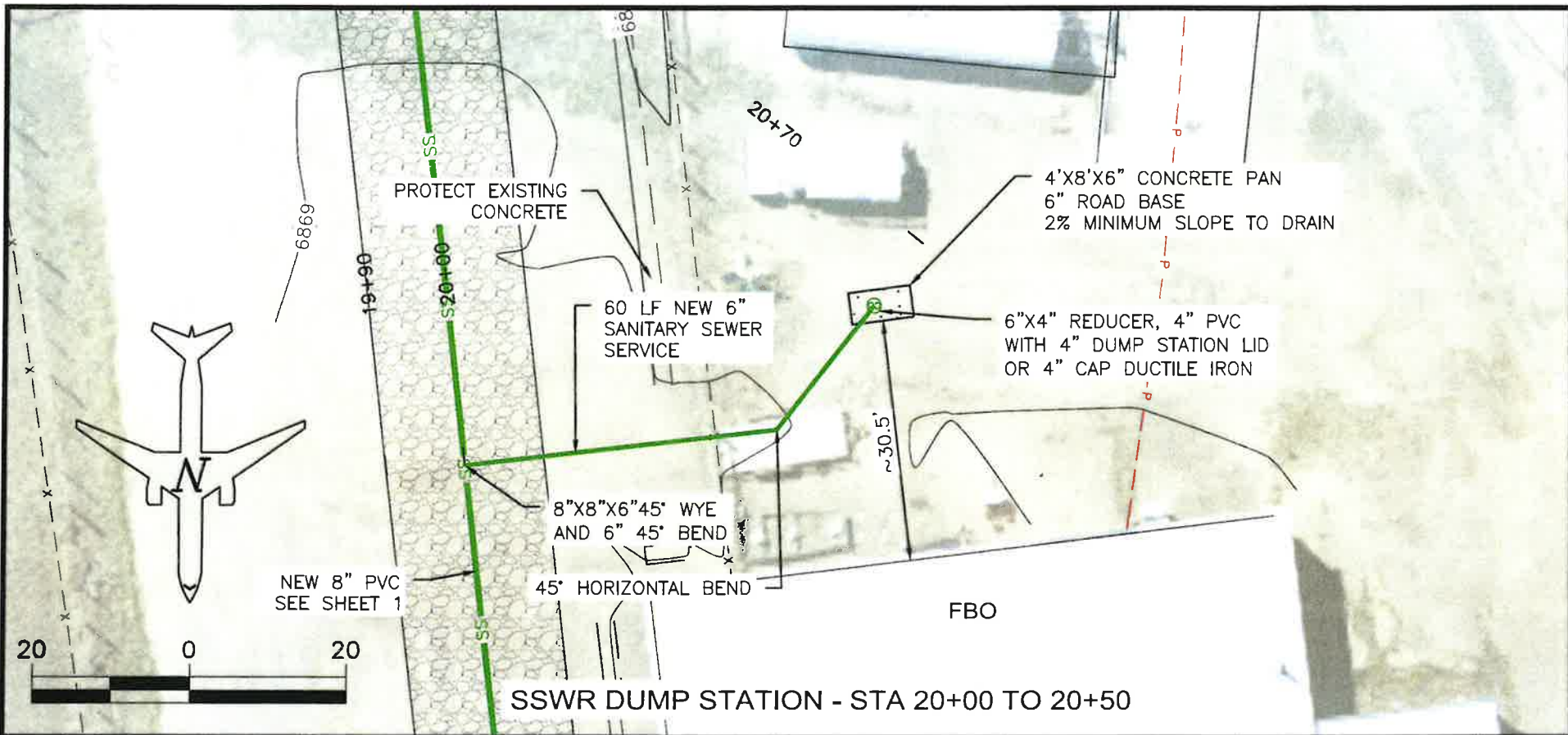
CLIENT: TOWN OF SARATOGA

PROJECT: 2026 SHIVELY FIELD GRAVITY SEWER	SHEET 1
TITLE: PROPOSED SEWER STA 10+00 TO STA 12+60	OF 4

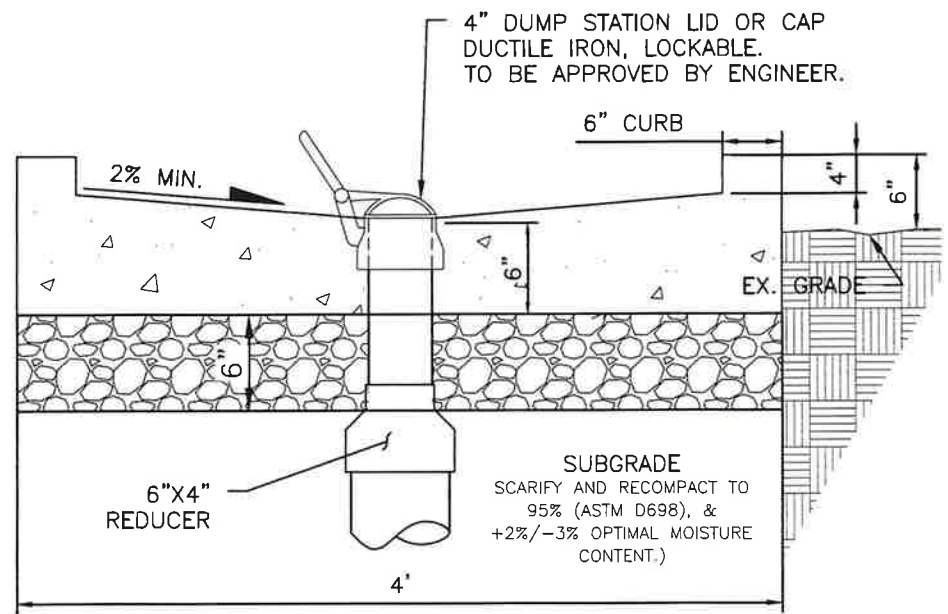
TOWN OF SARATOGA - 2026 SHIVELY FIELD GRAVITY SEWER - 08/04/26



DATE: Aug 08, 2025 - 1:30 PM - CAD OPERATOR: LHM
 LAYOUT NAME: 26460 TO 15441 LIST OF SHEETS
 DRAWING FILENAME: P:\2025\Saratoga 26460.00 - 26460.00\Saratoga 26460.00 - Shively Field Gravity Sewer\AutoCAD\25-0325 Shively Field Gravity Sewer.dwg

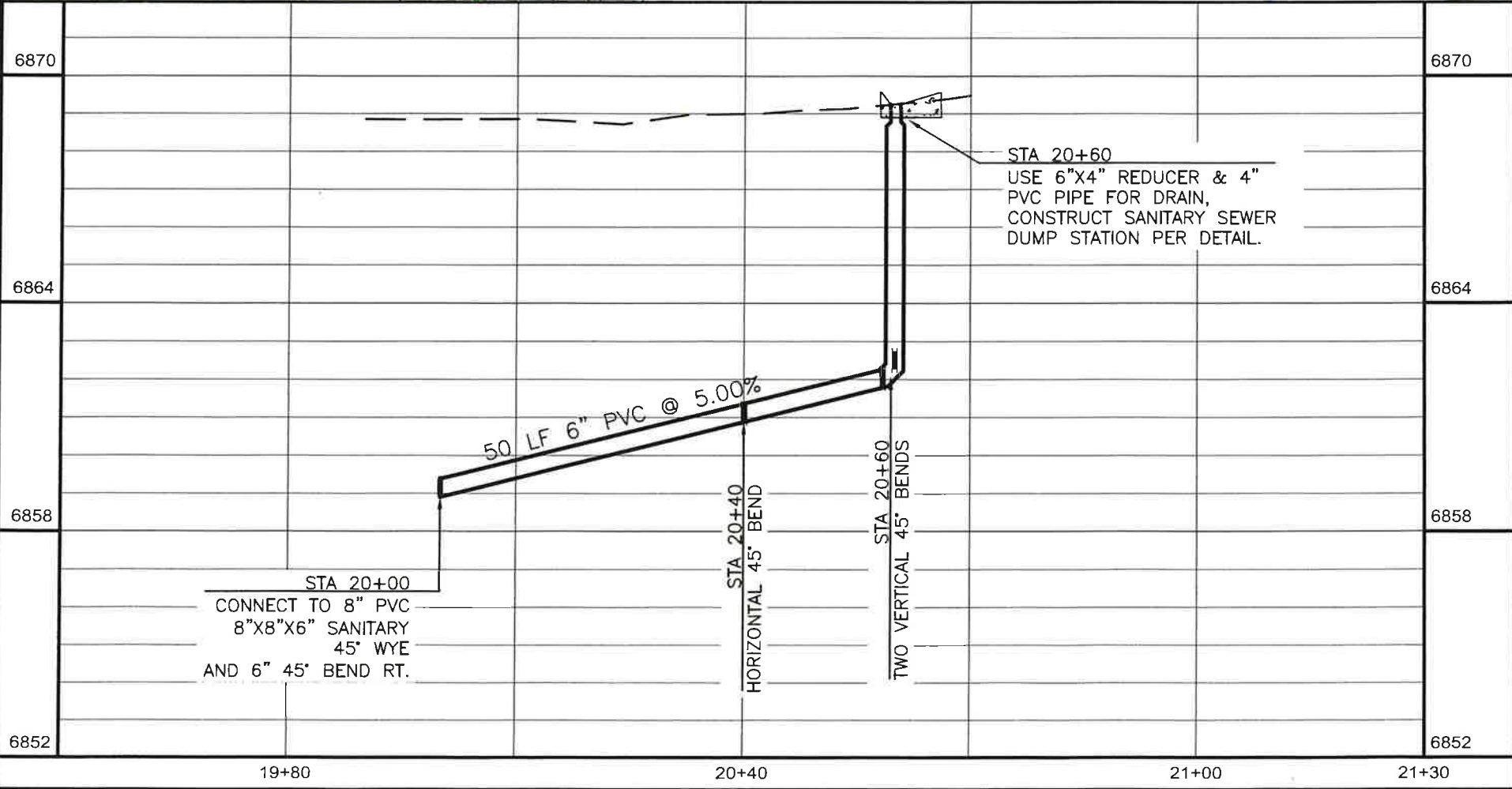


PLAN VIEW



ELEVATION VIEW

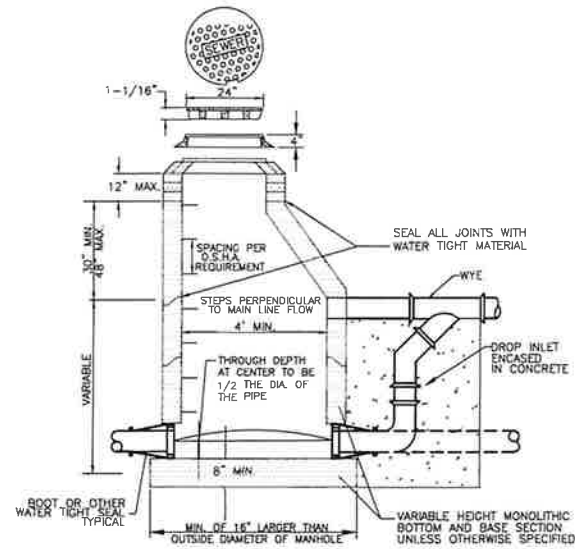
SANITARY SEWAGE DUMP STATION DETAIL



DATE: 08/04/2026	DRAWING LOG	BY: [Signature]	CHECKED: [Signature]	APPROVED: [Signature]	DRAWN BY: LHM	DATE: 08/04/2026	211 N. FIRST ST. P.O. BOX 370 SARATOGA NY 12853 (307) 326-8301	CLIENT: TOWN OF SARATOGA
					JOB NO.: 26415.00	SCALE: AS SHOWN		
					FIELD BOOK NO.:			

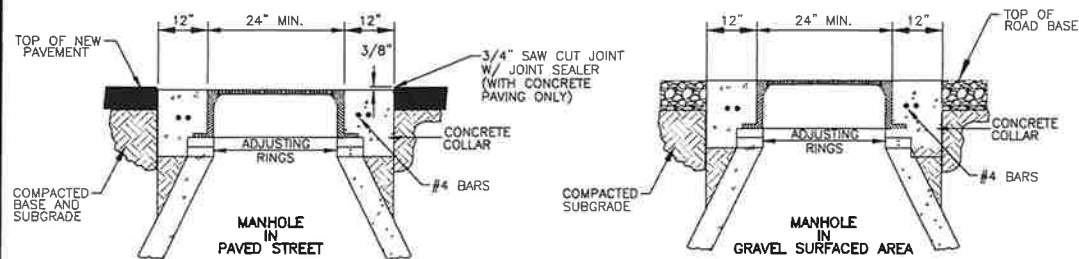
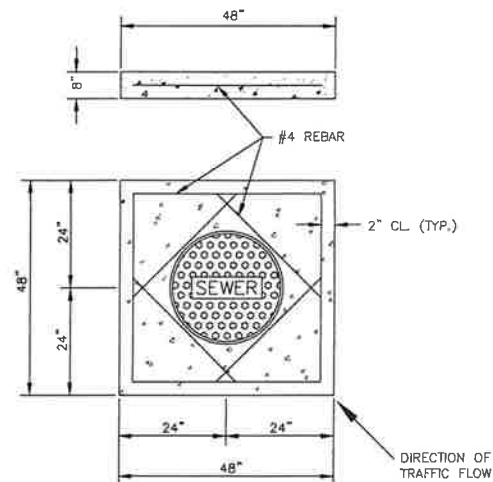
ENGINEERING ASSOCIATES
A YOUNG CORPORATION

PROJECT: 2026 SHIVELY FIELD GRAVITY SEWER	SHEET 3
TITLE: SSWR DUMP STATION - 20+00 TO 20+50	OF 4



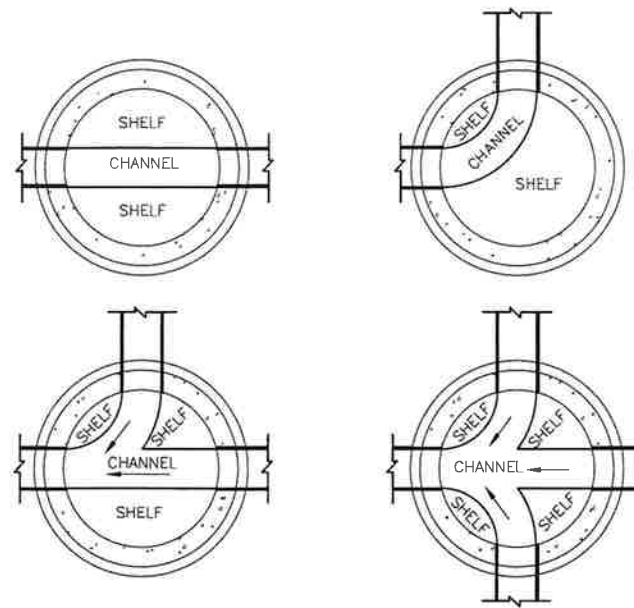
- NOTES:
1. DROP INLET IS NECESSARY WHEN DIFFERENCE IN INVERT ELEVATIONS IS GREATER THAN TWO FEET.
 2. DROP ACROSS INVERT SHALL BE GREATER THAN OR EQUAL TO SLOPE OF ADJACENT SEWER.
 3. BASES SHALL BE REINFORCED WHEN THE DISTANCE FROM INVERT TO TOP OF COVER EXCEEDS 15". REINFORCEMENT TO BE APPROVED BY ENGINEER.
 4. REINFORCEMENT FOR PRECAST SECTIONS SHALL BE AS PER ASTM C-478C.I.
 5. RING AND COVER SHALL COMPLY WITH ASTM HS-20-44.
 6. WHERE OLD STEPS ARE TO BE REMOVED & REPLACED, SPACE AT 16" O.C. STEPS SHALL WITHSTAND 400 LBS VERTICAL LOAD & 1,000 LBS PULLOUT RESISTANCE. STEPS SHALL BE 12" POLYPROPYLENE PLASTIC STEPS REINFORCED WITH 60 GRADE REINFORCEMENT.

A SANITARY SEWER MANHOLE WITH DROP
NOT TO SCALE

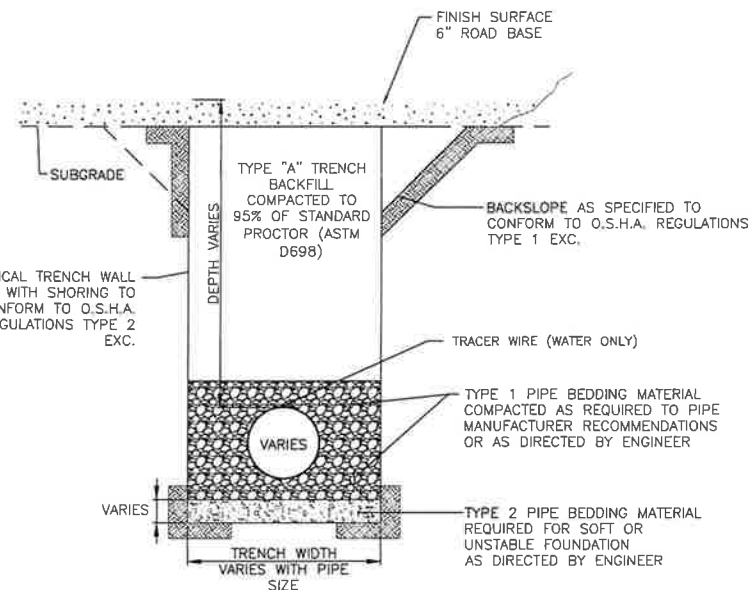


- NOTES:
1. SLOPE MANHOLE RING AS REQUIRED TO MATCH STREET GRADE AND CROSS SLOPE.
 2. FINAL MANHOLE ADJUSTMENT WILL BE MADE AFTER PAVING.
 3. CONCRETE COLLAR REQUIRED ON ALL MANHOLES.

D CONCRETE MANHOLE COLLAR
NOT TO SCALE

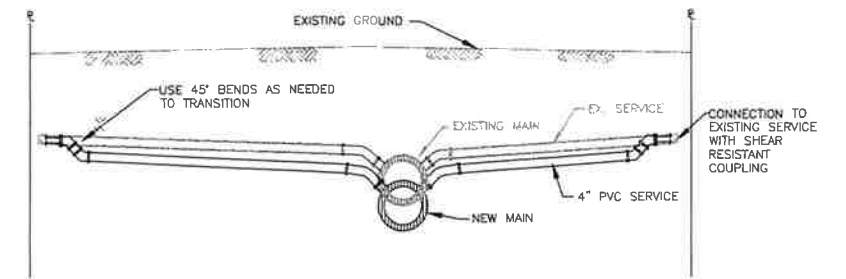
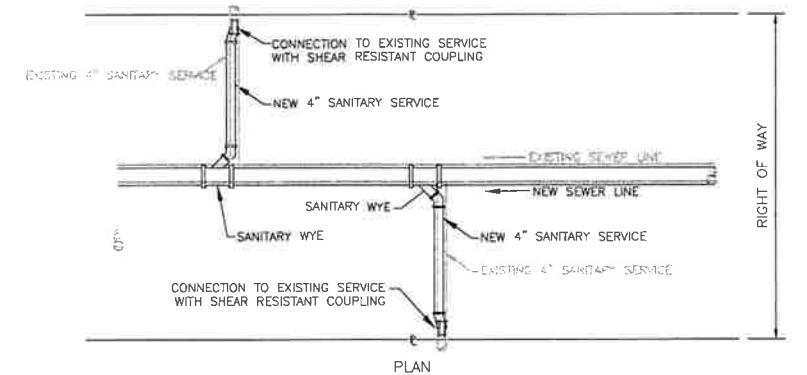


B TYPICAL MANHOLE INVERT CHANNELS
NOT TO SCALE



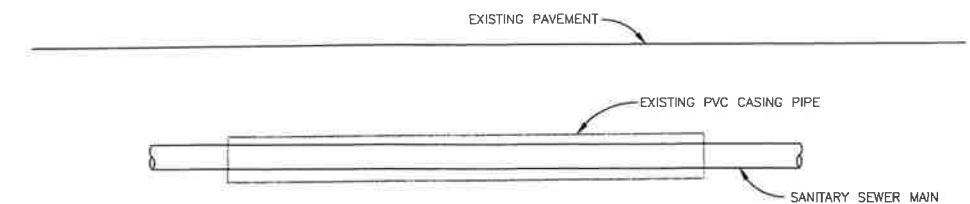
- NOTE:
1. MATCH EXISTING SURFACING ELEVATIONS.
 2. PROVIDE 6" CRUSHED BASE, GRADATION W, WITH COMPACTION TO 95% PER ASTM D-698, $\pm 2\%$ MOISTURE.
 3. TYPE 1 BEDDING SHALL BE IN ACCORDANCE WITH WYOMING PUBLIC WORKS STANDARD SPECIFICATIONS SECTION 02225.

E TYPICAL TRENCH - UNPAVED SURFACE
NOT TO SCALE

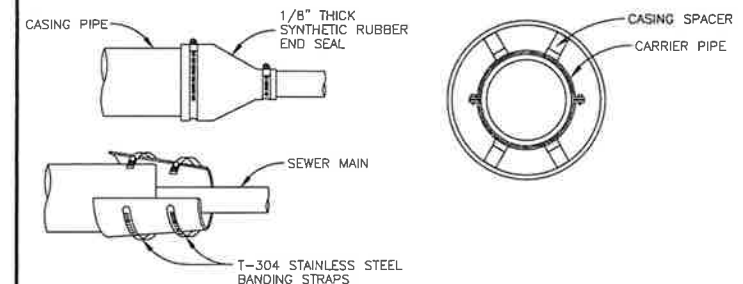


- NOTES:
1. MIN. SLOPE ON 4" SEWER SERVICE, 1/4" PER FOOT.
 2. IF WATER MAIN IS IN CONFLICT, FLOW FILL OR CASE 10' TO EACH SIDE OF SANITARY SEWER SERVICE ALONG WATER MAIN OR SEWER SERVICE.
 3. SANITARY SEWER SERVICE LOCATIONS SHOWN ON PLAN AND PROFILE ARE APPROXIMATE. ANTICIPATE LOCATING DURING CONSTRUCTION & CONNECT WITH SOLID PVC WYE. FLEXIBLE TAP SADDLES (TEE OR WYE) WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM ENGINEER.
 4. WHERE SANITARY SEWER SERVICES ARE INSTALLED & NOT CONNECTED TO EXISTING SANITARY SERVICES, PLUG HOUSE SIDE & MARK WITH A T-POST AT THE SURFACE.

C TYPICAL SEWER SERVICE DETAIL
NOT TO SCALE



- NOTES:
1. 6" MAX. BETWEEN SPACERS OR AS RECOMMENDED BY PIPE MANUFACTURER.
 2. WHEN ENDS OF CASING ARE BELOW GROUND, PROTECT AGAINST THE ENTRANCE OF FOREIGN MATERIAL.



F PIPE CASINGS
NOT TO SCALE

DATE: Aug 05, 2026 - 3:50pm CAD OPERATOR: Lm
DRAWING: 25415.00 - 25415.00 - Shively Field Gravity Sewer (VirtuCAD) DETAILS.dwg
C:\Users\lmcad\OneDrive\Documents\25415.00 - 25415.00 - Shively Field Gravity Sewer (VirtuCAD) DETAILS.dwg

DATE	DRAWING LOG	BY	CHECKED	APPROVED	DRAWN BY: LHW	DATE: 07/01/2026
					JOB NO.: 25415.00	SCALE: AS SHOWN
					FIELD BOOK NO.: S.8	



ENGINEERING ASSOCIATES
A WYOMING CORPORATION

211 N. FIRST ST.
P.O. BOX 370
SARATOGA WY 82331
(307) 326-8301

CLIENT:

TOWN OF SARATOGA

PROJECT: 2026 SHIVELY FIELD GRAVITY SEWER
TITLE: DETAILS

SHEET
4
4

TOWN OF SARATOGA_2026 SHIVELY FIELD GRAVITY SEWER_07/01/2026