

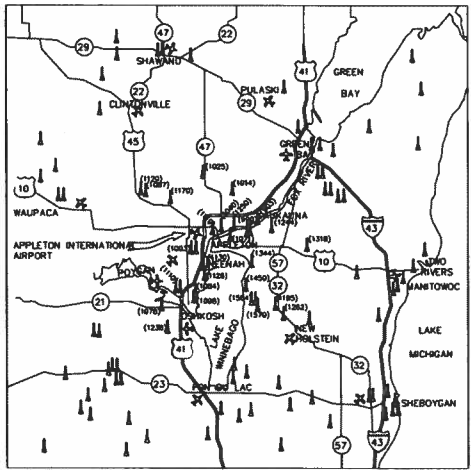
APPLETON INTERNATIONAL AIRPORT APPLETON, WISCONSIN

ENDEAVOUR DRIVE MODIFICATIONS

BASE BID: ENDEAVOUR DRIVE SANITARY SEWER & MINOR GRADING

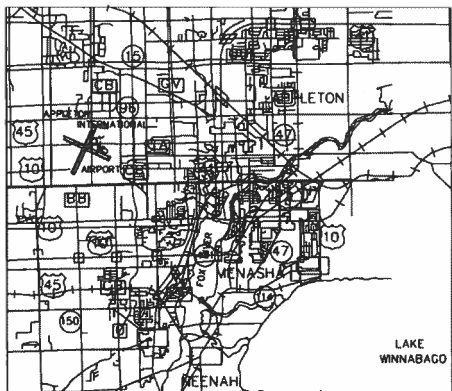
PROJECT 320010 - 039 - 202 SANITARY SEWER CONSTRUCTION ONLY

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03	CONSTRUCTION PHASING PLAN
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16	PLAN & PROFILE
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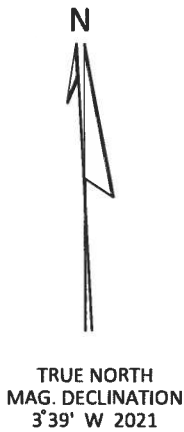
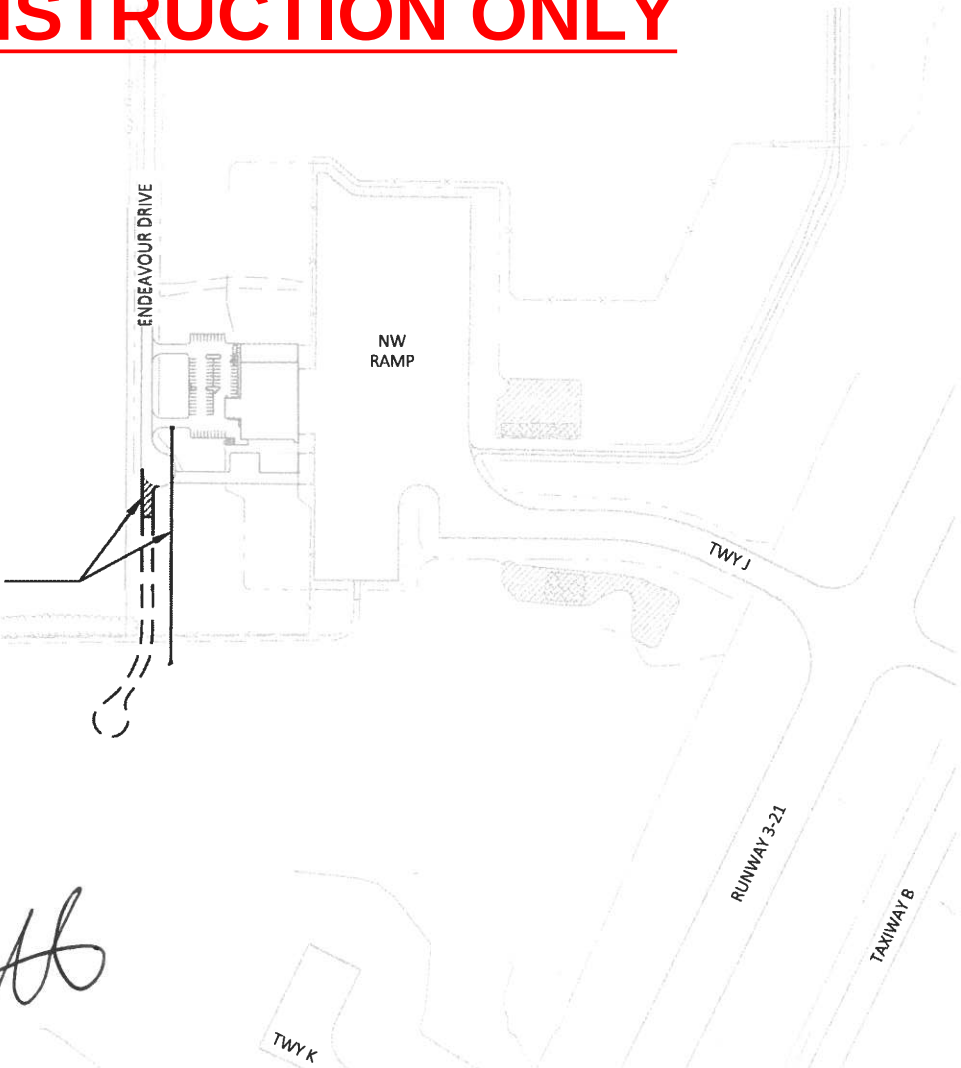
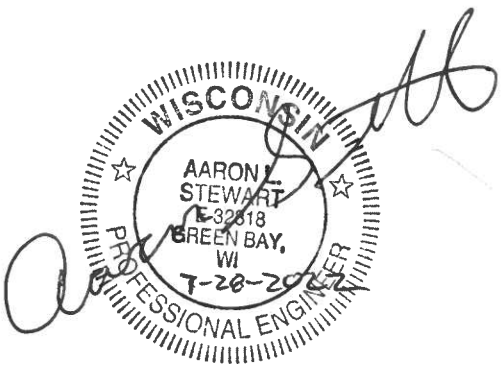
LOCATION MAP
1 : 1,000,000

AIRPORT LOCATION
TOWER LOCATION (ELEVATION MSL)



VICINITY MAP
1" = 10,000'

BASE BID
ENDEAVOUR DRIVE SANITARY SEWER
& MINOR GRADING
STATION 144+75 TO 145+75



ORIGINAL PLANS PREPARED BY
Westwood

CONSTRUCTION DATA

PRIME CONTRACTOR

MAJOR SUBCONTRACTORS AND/OR SUPPLIERS

WORK: COMMENCED _____ COMPLETED _____

PROJECT ENGINEER

SUBMITTED BY WESTWOOD INFRASTRUCTURE, INC., APPLETON, WI

RECOMMENDED FOR APPROVAL

Aaron L. Stewart
AARON L. STEWART P.E.

DATE 7-28-2022

"AS CONSTRUCTED" APPROVAL

AARON L. STEWART P.E.

DATE _____

PROJECT NO: ENDEAVOUR DRIVE

APPLETON INTERNATIONAL AIRPORT

COUNTY: OUTAGAMIE

TITLE SHEET

SCALE, FEET

0 250 500

SHEET 1 of 19

E

SUMMARY OF QUANTITIES OF MAJOR ITEMS - BASE BID

ITEM NO.	ITEM DESCRIPTION	TOTAL EST. QUAN.	UNITS	AS-BUILT
619.1000	MOBILIZATION	1	EACH	
205.0100	COMMON EXCAVATION	550	CY	
204.0100	REMOVING PAVEMENT	90	SY	
305.0120	BASE AGGREGATE DENSE 1 1/4 - INCH	430	TON	
311.0110	BREAKER RUN	265	TON	
460.6224	HMA PAVEMENT 4MT 58-28S	25	TON	
690.0150	SAWING ASPHALT	150	LF	
S001	SANITARY SEWER PVC PIPE, 10-INCH	620	LF	
S002	SANITARY SEWER MANHOLE, 4-FT DIAMETER	18	VF	
S003	TAP SANITARY MANHOLE	1	EACH	
S005	SANITARY SEWER INSULATED TRENCH, 10-INCH PVC	25	LF	
628.1504	SILT FENCE	50	LF	
628.1520	SILT FENCE MAINTENANCE	50	LF	
628.1905	MOBILIZATION EROSION CONTROL	1	EACH	
628.1910	MOBILIZATION EMERGENCY EROSION CONTROL	1	EACH	
628.7504	TEMPORARY DITCH CHECKS	25	LF	
625.0500	SALVAGED TOPSOIL	450	SY	
628.2008	EROSION MAT URBAN CLASS 1 TYPE B	450	SY	
629.0210	FERTILIZER, TYPE B	.1	CWT	
X901.010	SEEDING AIRPORT MIX	15	LB	
630.0200	SEEDING, TEMPORARY	20	LB	

Quantity for reference only.
Sawcutting is considered
incidental to the project.

BID ITEMS FOR SANITARY
SEWER CONSTRUCTION

WORK PERFORMED BY
OUTAGAMIE COUNTY

Refer to " WORK BY OTHERS "
section of Special Provisions for a
description of county performed work.

OPERATIONS ON AIRPORT

CONTRACTOR OPERATIONS ON THE AIRPORT SHALL CONFORM TO THE FOLLOWING REQUIREMENTS

1. COORDINATION - APPLETON INTERNATIONAL AIRPORT REPRESENTATIVES WILL BE KEPT APPRISED OF AIRPORT CONSTRUCTION, INCLUDING START DATE AND PROJECTED COMPLETION DATE. WEEKLY MEETINGS WILL BE HELD TO PROVIDE PROGRESS MILESTONES AND DISCUSS FUTURE WORK, INCLUDING CLOSURES. CONTRACTOR SHALL COORDINATE THEIR SCHEDULES WITH THE ENGINEER AND AIRPORT REPRESENTATIVE.
2. PHASING - THE PROJECT WILL BE CONSTRUCTED IN ONE PHASE. WORK WILL NOT IMPACT ANY MOVEMENT AREAS. PRIOR TO STARTING ANY WORK, THE TEMPORARY FENCE MUST BE INSTALLED AND SECURE.
3. AREAS AND OPERATIONS AFFECTED BY CONSTRUCTION - THE CONTRACTOR SHALL CONDUCT OPERATIONS ON THE AIRPORT IN A MANNER THAT WILL MINIMIZE INTERFERENCE WITH THE NORMAL OPERATION OF AIRPORT FACILITIES OPEN TO AIR TRAFFIC AND SHALL IMPLEMENT ALL SPECIFIED AND OTHER APPROPRIATE MEASURES TO ENSURE THE SAFETY OF ALL USERS OF THE AIRPORT.
4. WILDLIFE MANAGEMENT - AIRPORT PERIMETER FENCE MUST BE MAINTAINED AND INSPECTED DAILY IN AREAS AFFECTED BY CONSTRUCTION. REPORT ANY WILDLIFE ENCOUNTERS TO AIRPORT PUBLIC SAFETY. CONTRACTOR SHALL MINIMIZE TRASH, STANDING WATER, AND TALL GRASS TO AVOID ATTRACTING WILDLIFE TO THE PROJECT SITE.
5. FOD MANAGEMENT - THE CONTRACTOR WILL BE REQUIRED TO HAVE A POWER BROOM WITH OPERATOR AT THE PROJECT SITE DURING CONSTRUCTION OPERATIONS INVOLVING PAVEMENT AREAS. ALL PAVEMENT AREAS SHALL BE CONSTANTLY SWEEPED TO REMOVE TRACKED OR SPILLED DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS. FAILURE TO KEEP ACTIVE SURFACES CLEAN SHALL MEAN CONSTRUCTION OPERATIONS WILL BE SUSPENDED UNTIL THE SURFACES ARE CLEANED TO THE SATISFACTION OF THE ENGINEER.
6. THE CONTRACTOR SHALL MAINTAIN A WAGE BOARD WITH COMPANY REPRESENTATIVES AND CONTACT INFORMATION THROUGHOUT THE LENGTH OF THE PROJECT. EMERGENCY INFORMATION AND CONTACTS WILL ALSO BE INCLUDED ON THIS BOARD.
7. PENALTIES - IN THE EVENT THAT SECURITY IS BREACHED THROUGH THE CONTRACTOR'S NEGLIGENCE, THE CONTRACTOR SHALL COMPENSATE OUTAGAMIE COUNTY IN FULL FOR ALL COSTS ASSOCIATED WITH THE SECURITY BREACH, INCLUDING, BUT NOT LIMITED TO, FINES, LEGAL COSTS, EQUIPMENT REPLACEMENT, AND REPAIR OF DAMAGES.
8. SPECIAL CONDITIONS - THERE MAY BE CERTAIN OCCASIONS WHEN THE CONTRACTOR IS NOT ALLOWED TO WORK. EXAMPLES INCLUDE SPECIAL AIRCRAFT ARRIVAL AND DEPARTURE, AIRPORT EVENTS, OR SEVERE WEATHER CONDITIONS SUCH AS STORMS, WIND, OR FOG. THE AIRPORT WILL HAVE THE FINAL SAY ON PROJECT ACCESS AND WILL CONVEY THIS INFORMATION TO THE CONTRACTOR AS SOON AS POSSIBLE.
9. MARKING AND SIGNS FOR ACCESS ROUTES - ACCESS TO THE AIRPORT WILL BE MAINTAINED AT ALL TIMES BY USING APPROPRIATE BARRICADES, SIGNS, DETOURS, TEMPORARY RAMPS AND FLAG PERSONS, IF REQUIRED, TO DIRECT DRIVERS THROUGH THE CONSTRUCTION OPERATIONS.

BARRICADES AND OTHER TRAFFIC CONTROL ITEMS FOR USE LANDSIDE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE HIGHWAY SPECIFICATIONS AND MUTCD, CURRENT EDITION.

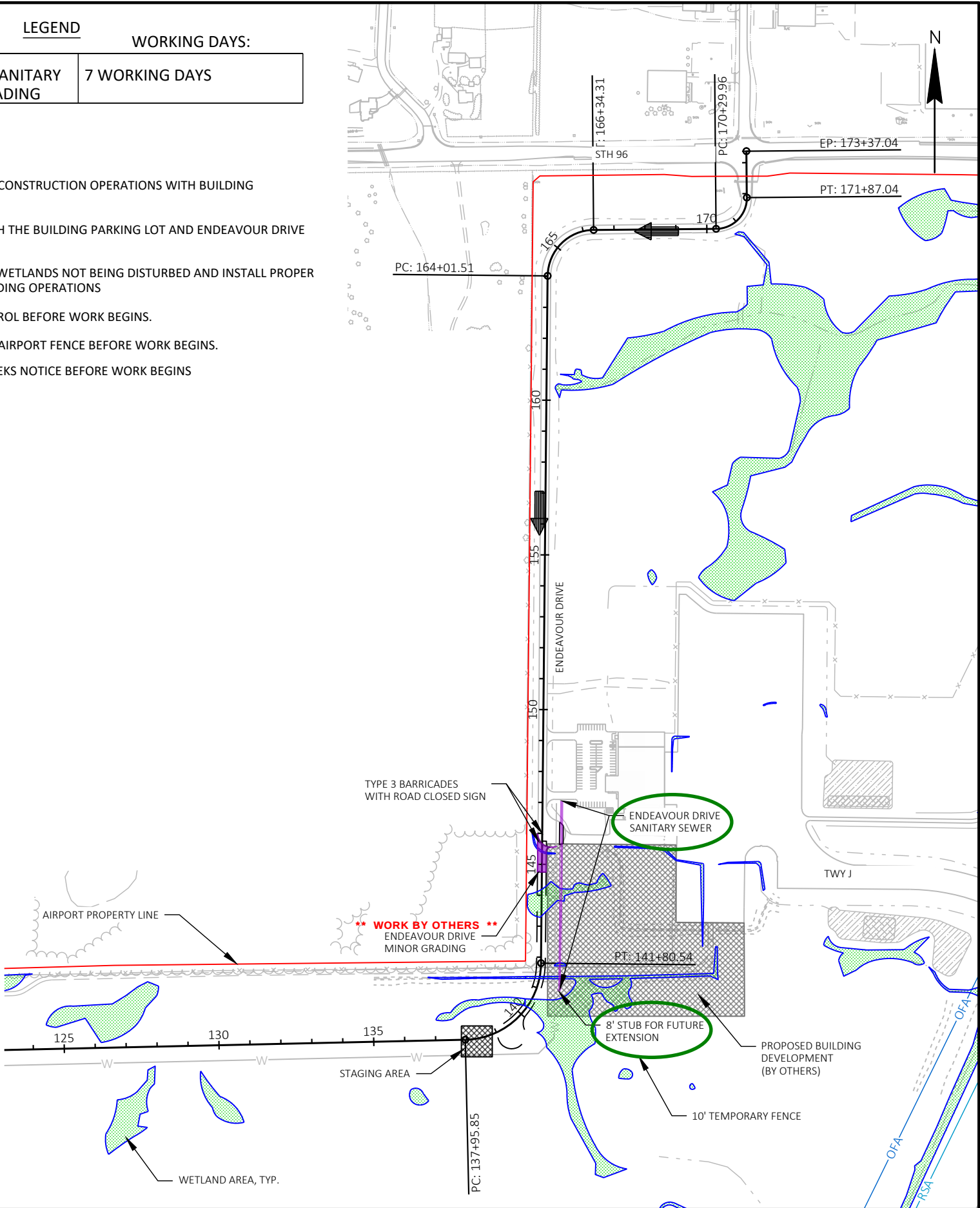
BARRICADES, FLAG PERSONS, BARRICADE TAPE, SIGNS, AND ALL OTHER INCIDENTAL ITEMS REQUIRED TO MAINTAIN A SAFE ENVIRONMENT FOR WORKERS AND PUBLIC VEHICULAR OPERATIONS LANDSIDE WILL BE PAID UNDER THE LUMP SUM BID ITEM.

10. PROTECTION OF RUNWAY & TAXIWAY AREAS, ZONES, AND SURFACES REQUIREMENTS - THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION EQUIPMENT TO PENETRATE ABOVE THE PLANE OF THE 50:1 APPROACH SURFACE OF ANY ACTIVE RUNWAY.
- EQUIPMENT AND MATERIALS SHALL NOT BE STORED OR PARKED WITHIN 600 FEET FROM THE CENTERLINE OF AN ACTIVE RUNWAY OR WITHIN 200 FEET FROM THE CENTERLINE OF AN ACTIVE TAXIWAY, UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY THE AIRPORT.
- EXCAVATIONS AND OPEN TRENCHES LOCATED WITHIN 600 FEET FROM THE CENTERLINE OF AN ACTIVE RUNWAY SHALL BE ADEQUATELY SIGNED, MARKED, AND LIGHTED.
11. OTHER LIMITATIONS ON CONSTRUCTION - OPEN FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT MANAGER.
- AGGREGATE CRUSHERS, PORTLAND CEMENT CONCRETE MIXING PLANTS, AND BITUMINOUS PAVEMENT MIXING PLANTS WILL NOT BE PERMITTED ON THE AIRPORT.
12. CONTRACTOR DRIVERS SAFETY REQUIREMENT - NO ELECTRONIC COMMUNICATION DEVICES CAN BE USED BY ANYONE DRIVING ANY VEHICLE OR ANY EQUIPMENT. ANYONE CAUGHT VIOLATING THIS RULE WILL LOSE THEIR DRIVING PRIVILEGES ON THE AIRPORT AND MAY BE REMOVED FROM THE AIRPORT PERMANENTLY. THE CONTRACTOR IS EXPECTED TO PROVIDE INFORMATION TO ITS EMPLOYEES ON THE SAFETY RISKS ASSOCIATED WITH TEXTING WHILE DRIVING.

PHASE:	LEGEND	WORKING DAYS:
1 - ENDEAVOUR DRIVE SANITARY SEWER AND MINOR GRADING		7 WORKING DAYS

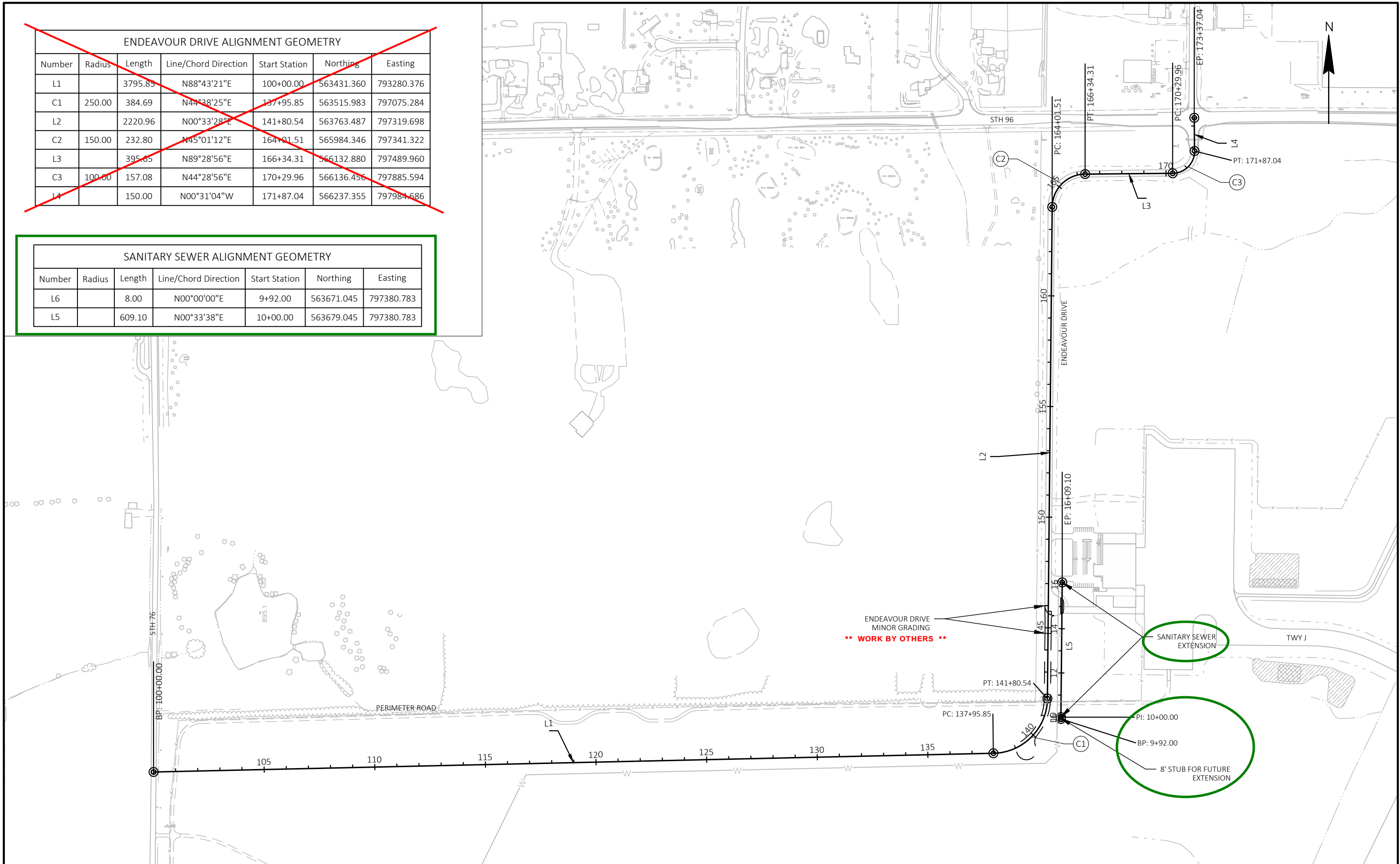
PHASING NOTES:

1. CONTRACTOR MUST COORDINATE CONSTRUCTION OPERATIONS WITH BUILDING CONSTRUCTION (BY OTHERS)
2. ALL PAVING OPERATIONS FOR BOTH THE BUILDING PARKING LOT AND ENDEAVOUR DRIVE SHALL BE DONE CONCURRENTLY
3. CONTRACTOR MUST PROTECT ALL WETLANDS NOT BEING DISTURBED AND INSTALL PROPER EROSION CONTROL PRIOR TO GRADING OPERATIONS
4. INSTALL NECESSARY TRAFFIC CONTROL BEFORE WORK BEGINS.
5. INSTALL AND SECURE TEMPORARY AIRPORT FENCE BEFORE WORK BEGINS.
6. PROVIDE A MINIMUM OF TWO WEEKS NOTICE BEFORE WORK BEGINS



ENDEAVOUR DRIVE ALIGNMENT GEOMETRY						
Number	Radius	Length	Line/Chord Direction	Start Station	Northing	Easting
L1		3795.85	N88°43'21"E	100+00.00	563431.360	793280.376
C1	250.00	384.69	N44°38'25"E	137+95.85	563515.983	797075.284
L2		2220.96	N00°33'28"E	141+80.54	563763.487	797319.698
C2	150.00	232.80	N45°01'12"E	164+01.51	565984.346	797341.322
L3		395.65	N89°28'56"E	166+34.31	566132.880	797489.960
C3	100.00	157.08	N44°28'56"E	170+29.96	566136.456	797885.594
L4		150.00	N00°31'04"W	171+87.04	566237.355	797984.686

SANITARY SEWER ALIGNMENT GEOMETRY						
Number	Radius	Length	Line/Chord Direction	Start Station	Northing	Easting
L6		8.00	N00°00'00"E	9+92.00	563671.045	797380.783
L5		609.10	N00°33'38"E	10+00.00	563679.045	797380.783



**** WORK BY OTHERS ****

REMOVING PAVEMENT

STATION TO STATION			DIR	ROADWAY	204.0100 REMOVING PAVEMENT SY
E2425B21 ENDEAVOUR DRIVE EXTENSION - BASE BID					
				ENDEAVOUR DRIVE	---
				SANITARY SEWER	90
BASE BID SUBTOTAL					90
PROJECT TOTAL					90

SAWCUTS

		690.0150
		SAWING ASPHALT LF
DIR	LOCATION	
E2425B21 ENDEAVOUR DRIVE BASE BID		
	ENDEAVOUR DRIVE	---
	SANITARY SEWER	150
BASE BID SUBTOTALS		150

BASE COURSE

			305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON
STATION TO STATION	DIR	LOCATION		
E2425B21 ENDEAVOUR DRIVE EXTENSION - BASE BID				
		ENDEAVOUR DRIVE	360	250
		SANITARY SEWER EXTENSION	61	15
		UNDISTRIBUTED EBS BACKFILL	9	---
BASE BID SUBTOTAL			430	265

ASPHALTIC ITEMS

STATION TO STATION			LOCATION	460.6224 HMA PAVEMENT 4 MT 58-28 S TON
E2425B21 ENDEAVOUR DRIVE EXTENSION - BASE BID				
144+75	-	146+00	ENDEAVOUR DRIVE	---
	-		SANITARY SEWER EXTENSION	25
			UNDISTRIBUTED	0

PROJECT TOTALS 25

**** WORK BY OTHERS ****

LANDSCAPING ITEMS

STATION TO STATION		DIR	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	X901.010 SEEDING AIRPORT MIX LB	630.0200 TEMP SEEDING LB	630.0500 SEED WATER MGAL
E2425B21 ENDEAVOUR DRIVE EXTENSION - BASE BID									
			ENDEAVOUR DRIVE	450	450	0.10	15	20	10
BASE BID SUBTOTAL				450	450	0.10	15	20	10
PROJECT TOTALS				450	450	0	15	20	10

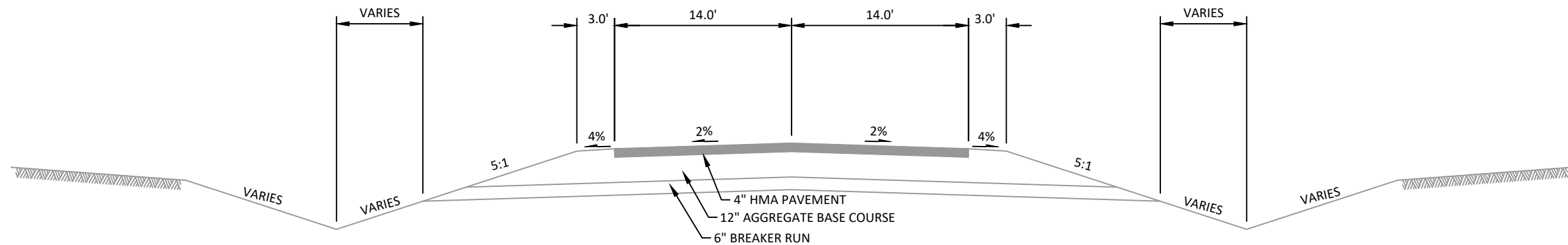
EROSION CONTROL

STATION TO STATION		DIR	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATION EROSION CONTROL EA	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EA	628.7504 TEMPORARY DITCH CHECKS LF
E2425B21 ENDEAVOUR DRIVE EXTENSION - BASE BID								
144+75		146+00	ENDEAVOUR DRIVE	50	50	1	----	25
			UNDISTRIBUTED	---	---	---	1	---
BASE BID SUBTOTAL				50	50	1	1	25
PROJECT TOTALS				50	50	1	1	25

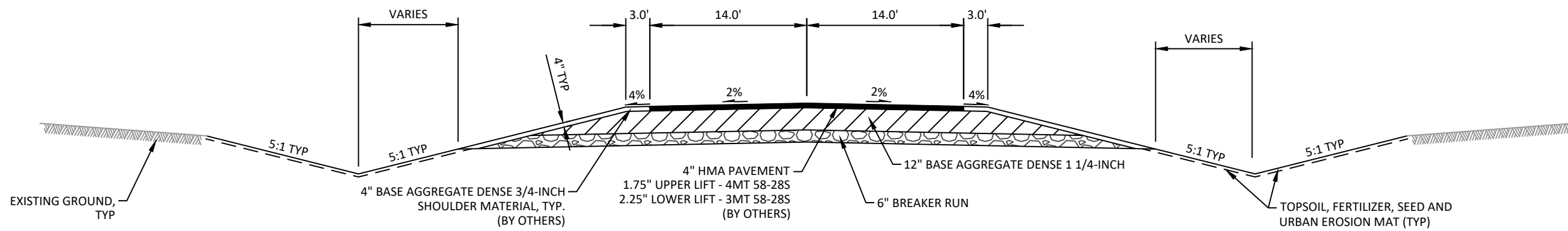
CONTRACT WORK

SANITARY SEWER

FROM	-	TO	S001	S002	S003	S005
			SANITARY SEWER PVC PIPE, 10- INCH	SANITARY SEWER MANHOLE, 4- FT DIAMETER	TAP SANITARY MANHOLE	SANITARY SEWER INSULATED TRENCH, 10- INCH PVC
			LF	VF	EACH	LF
E2425B21 ENDEAVOUR DRIVE EXTENSION						
BASE BID						
EX SAN MH 1	-	SAN MH 2	359	9.63	1	---
SAN MH 2	-	SAN MH 3	250	8.08	---	25
STUB FOR FUTURE EXTENSION			11	---	---	---
BASE BID TOTALS			620	18	1	25



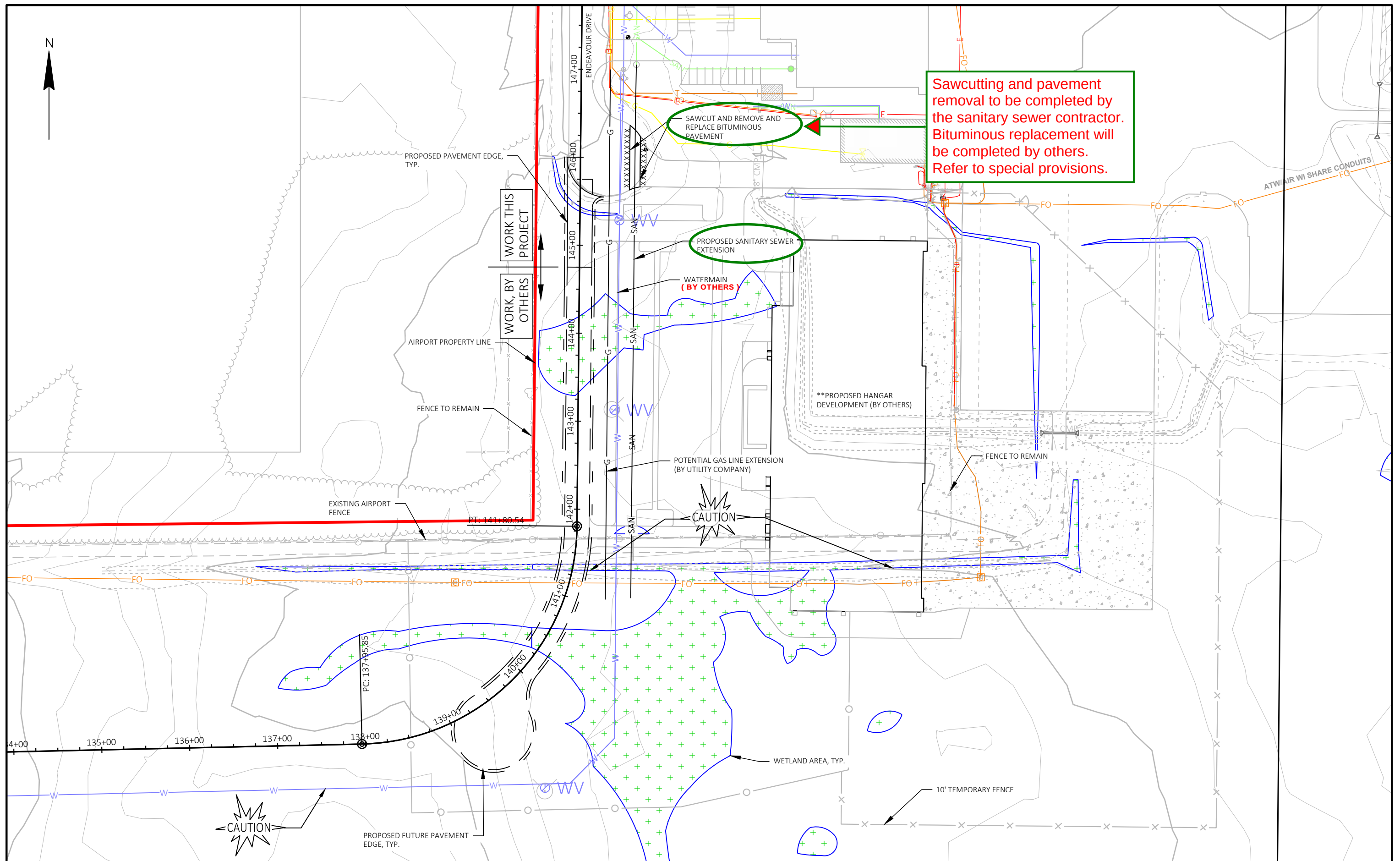
EXISTING TYPICAL SECTION - ENDEAVOUR DRIVE



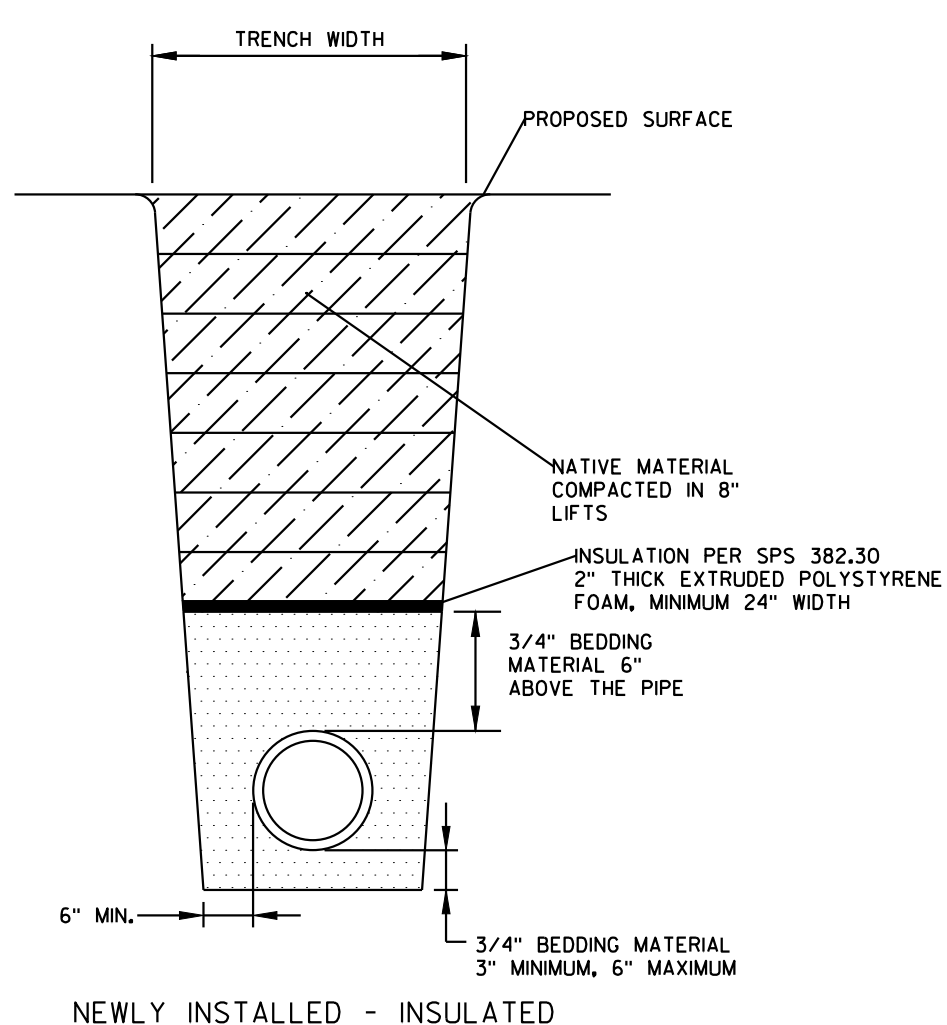
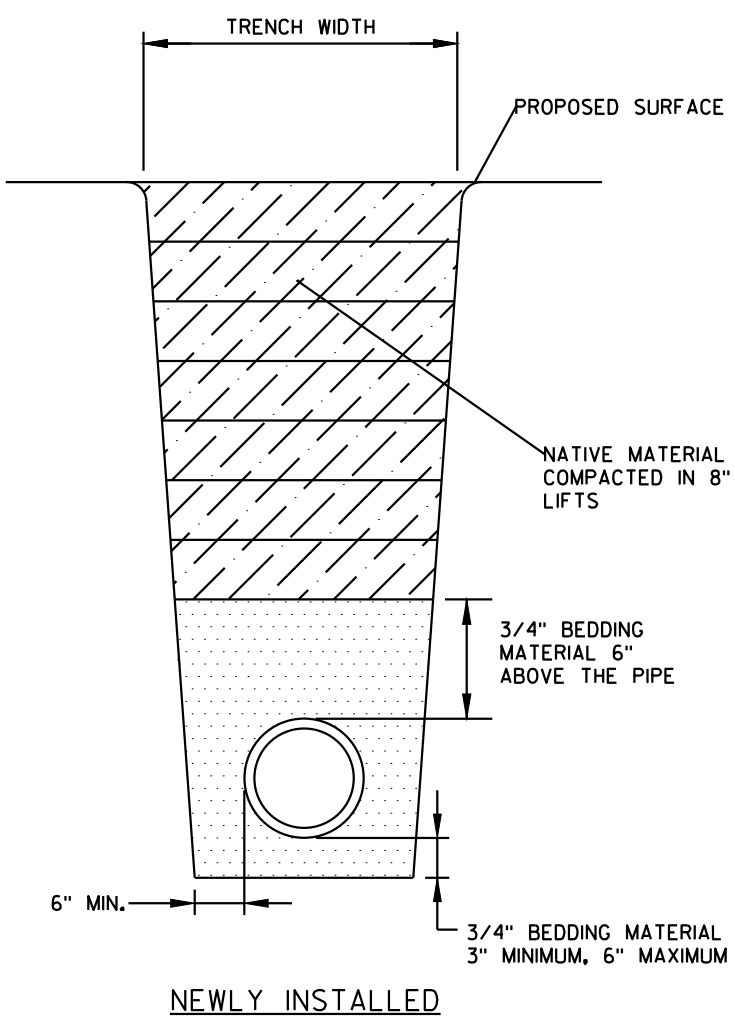
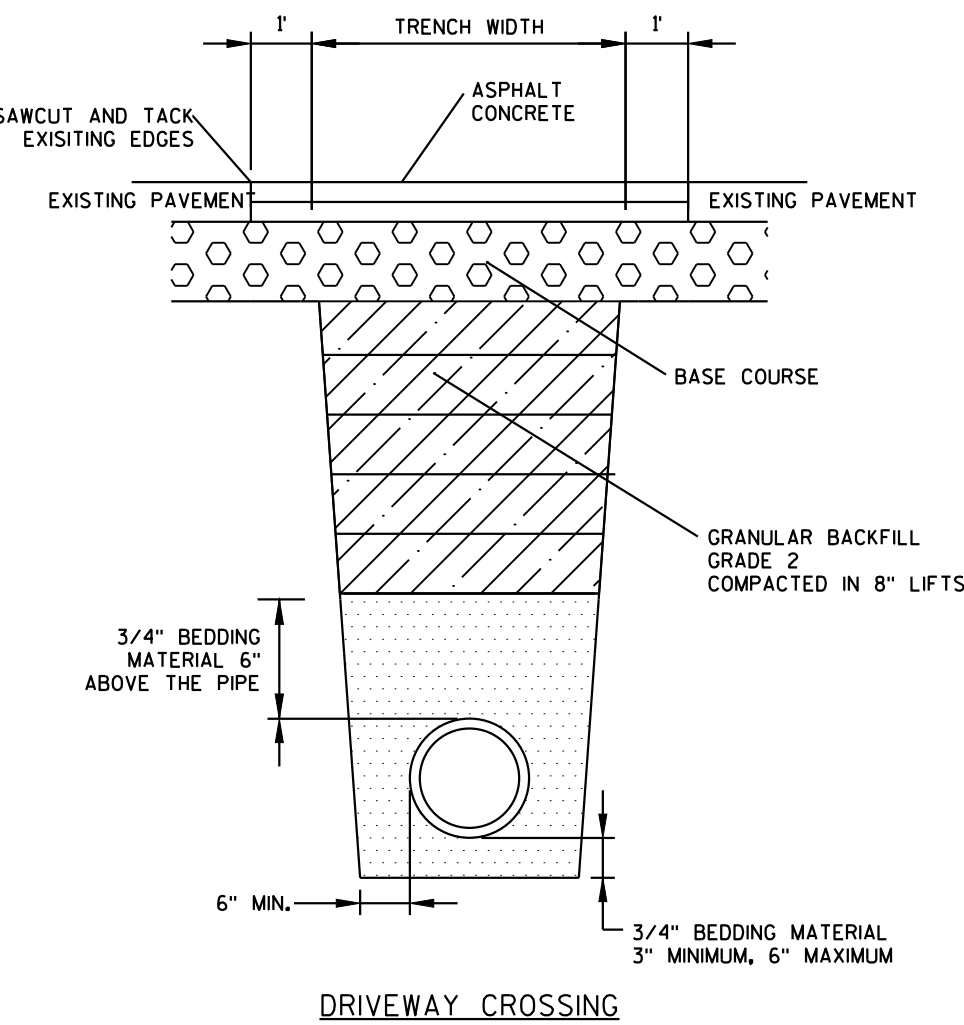
PROPOSED TYPICAL SECTION - ENDEAVOUR DRIVE

STA 144+75 - STA 145+75

**** WORK BY OTHERS ****

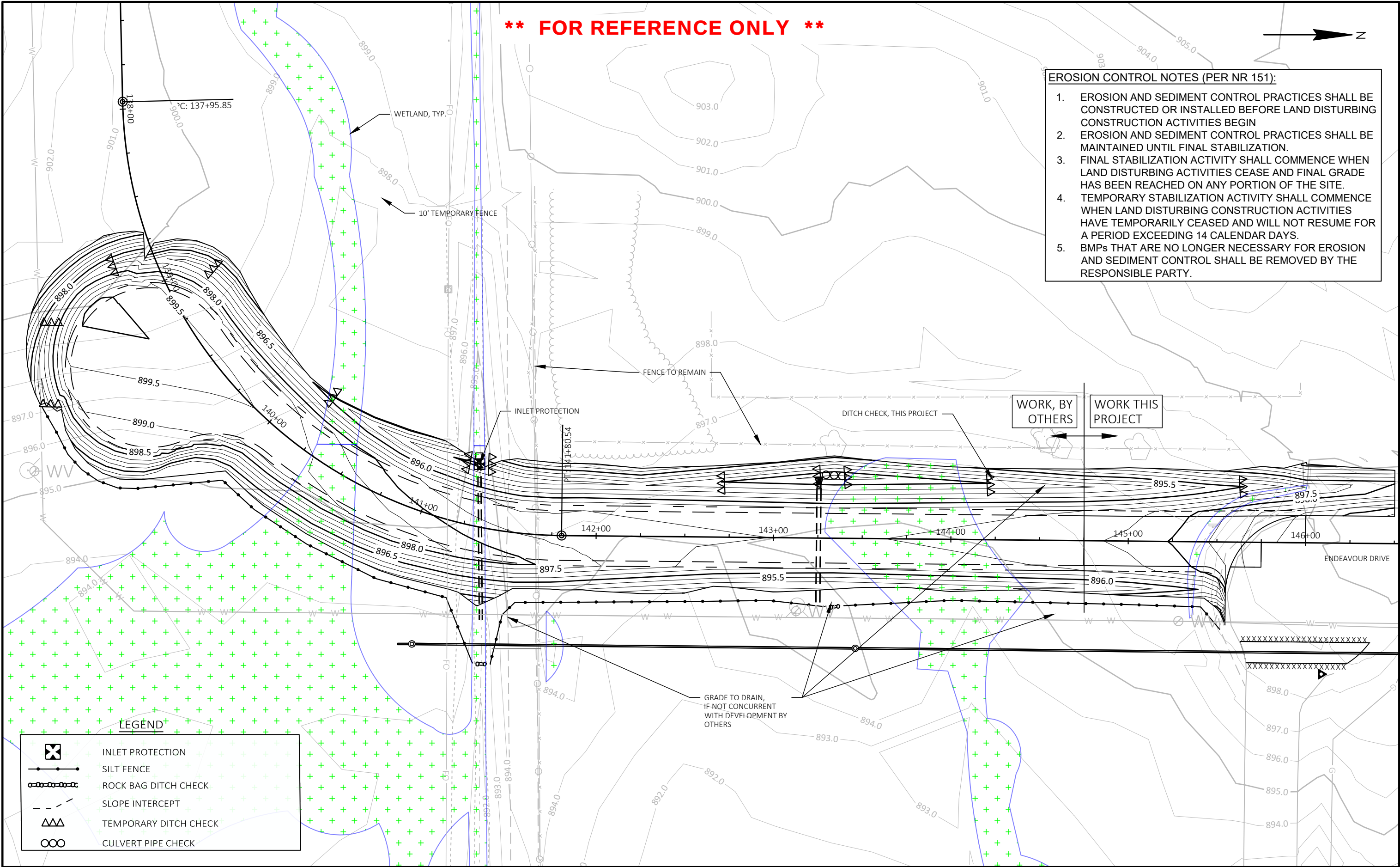


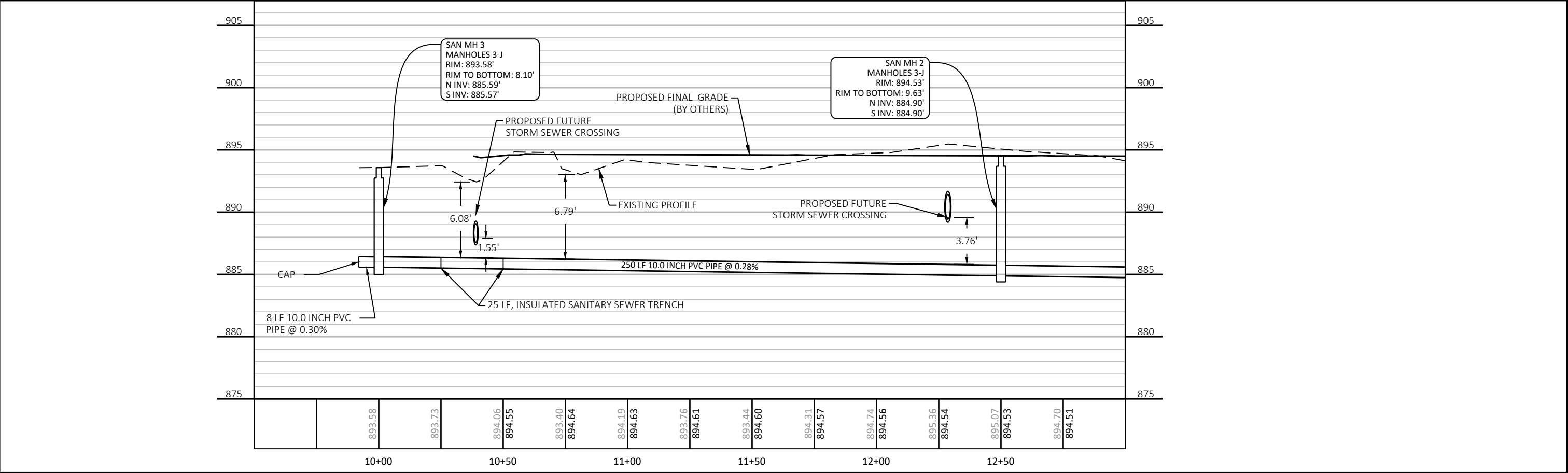
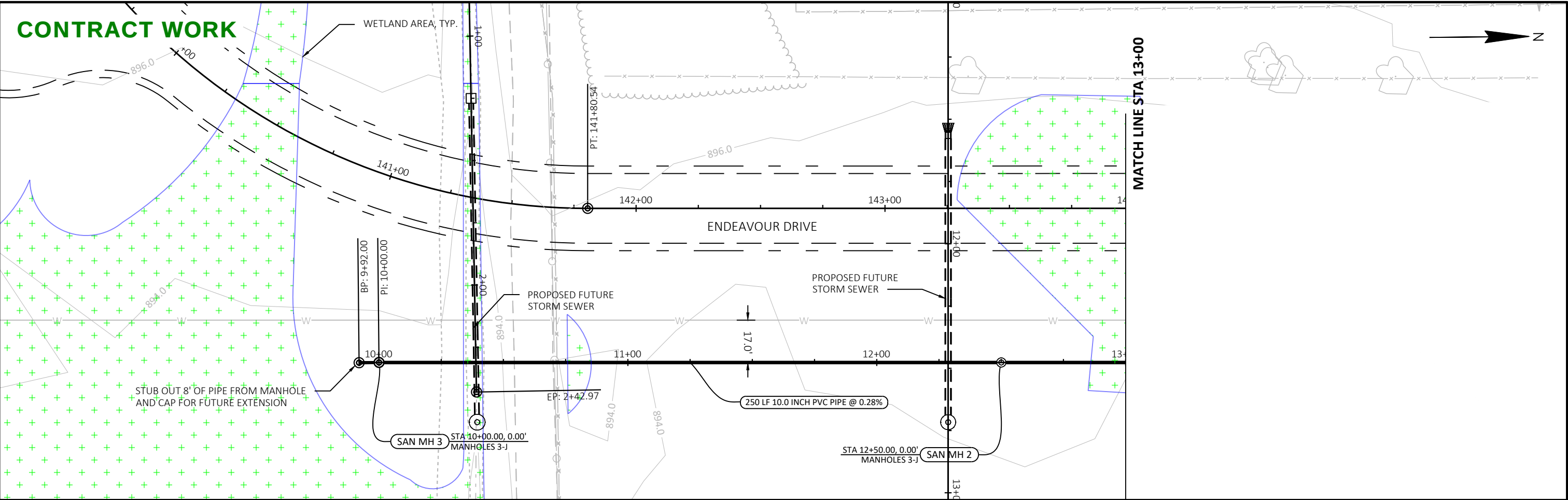
CONTRACT WORK



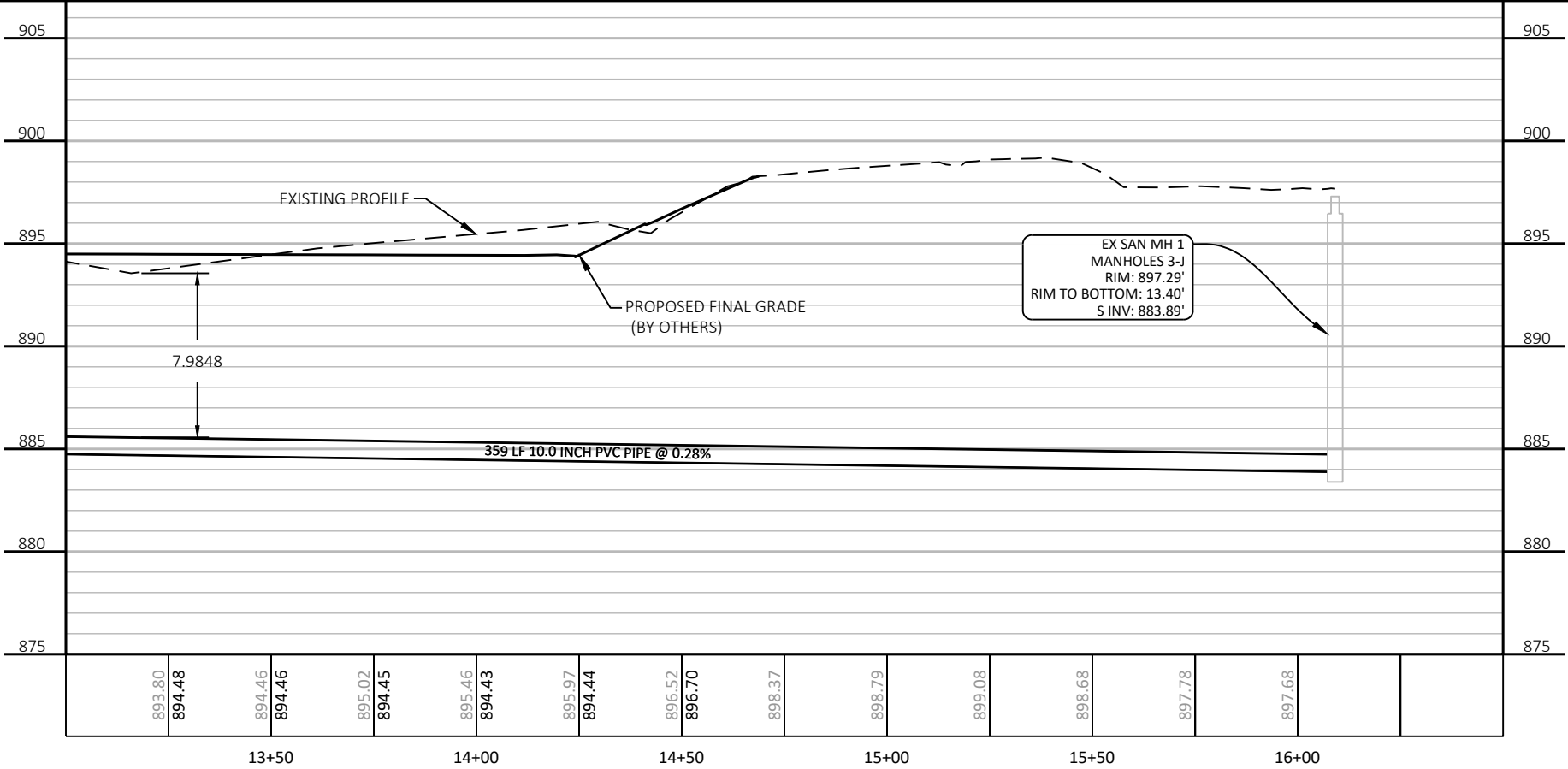
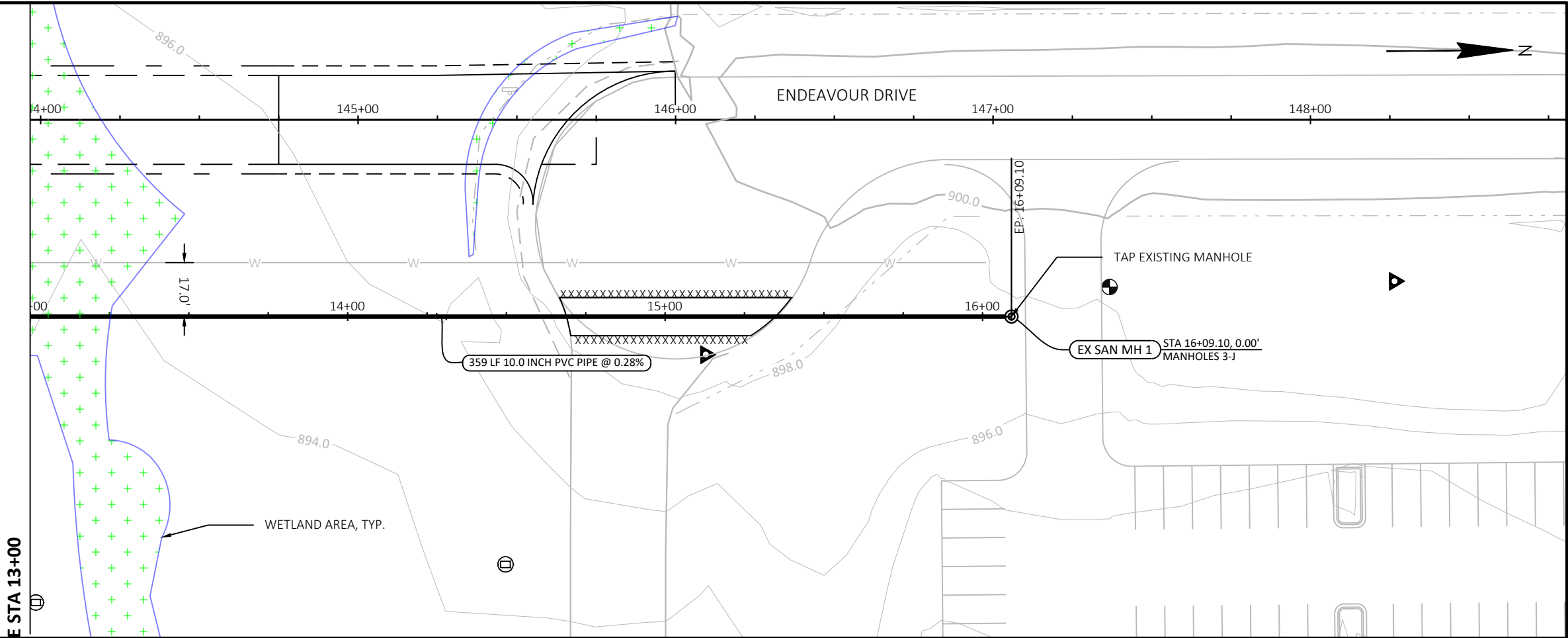
NOTE:
IF WET OR UNSTABLE CONDITIONS EXIST, USE 3" OF CRUSHED STONE IS REQUIRED IN TRENCH WITHOUT EXTRA COST TO THE OWNER.

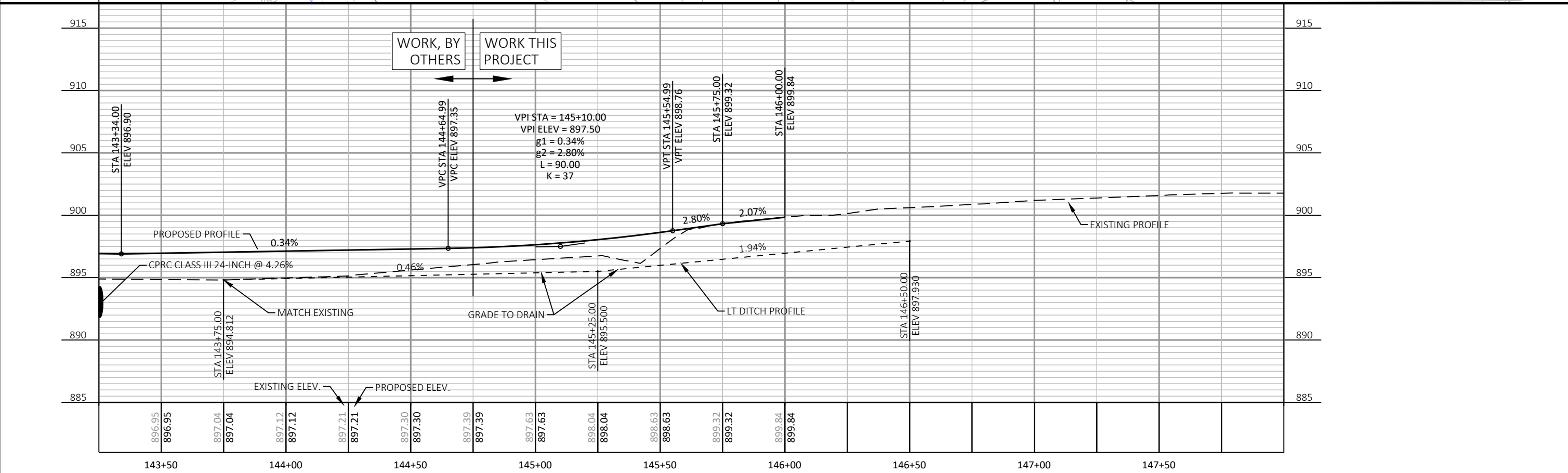
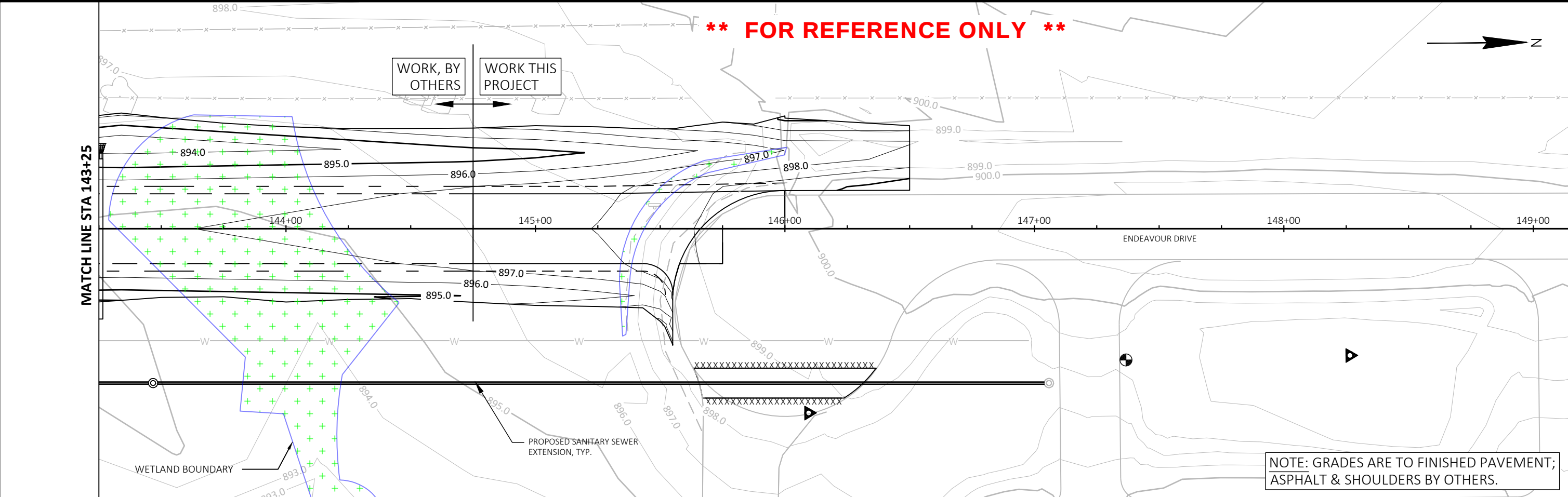
SANITARY SEWER TRENCH
NOT TO SCALE



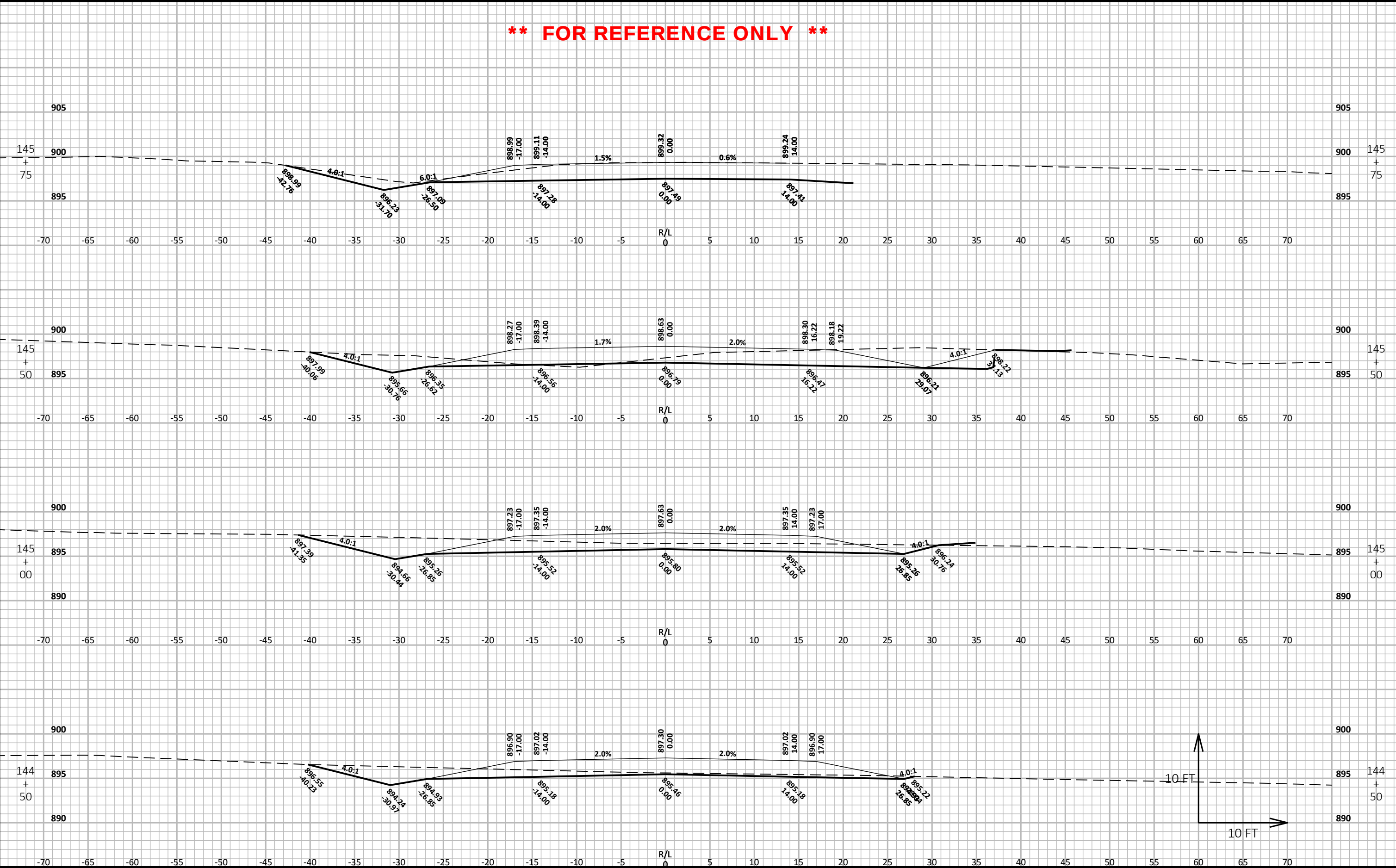


CONTRACT WORK

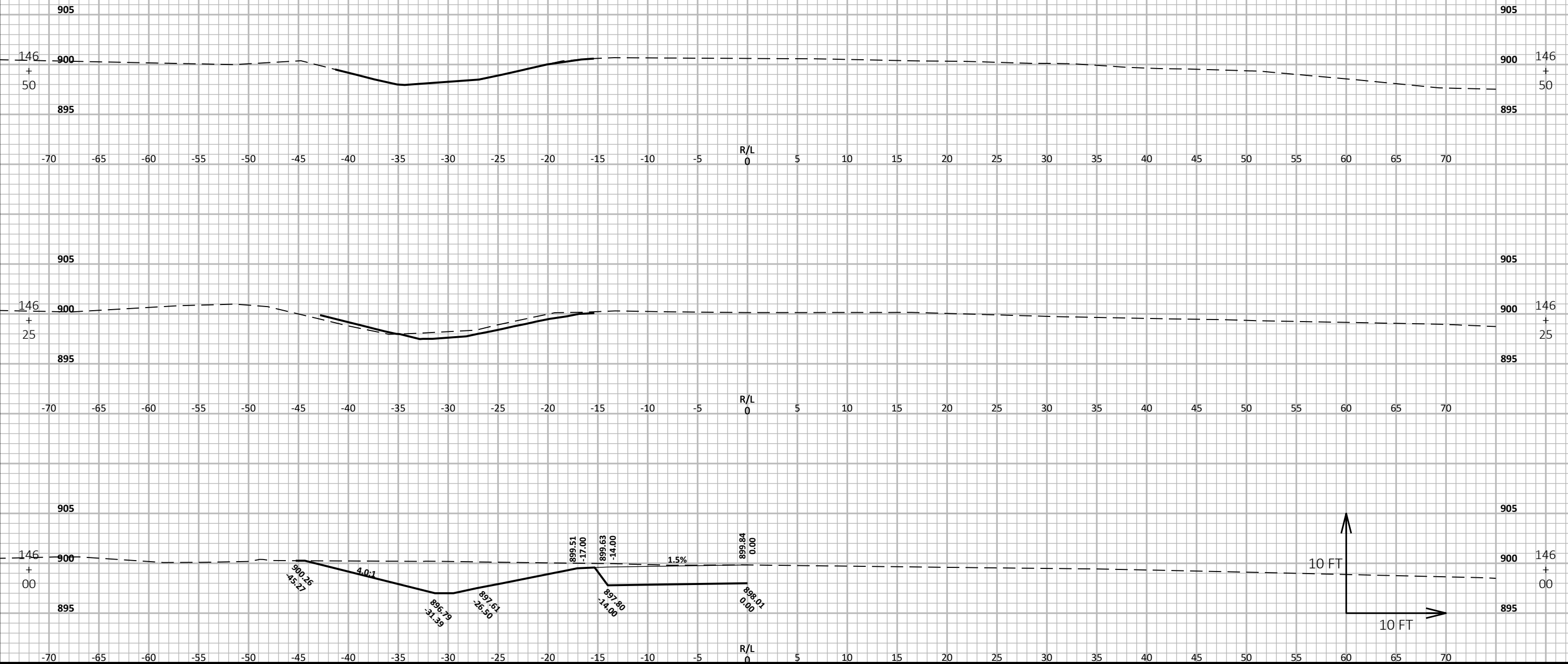




**** FOR REFERENCE ONLY ****



**** FOR REFERENCE ONLY ****



PROJECT NO: XXXXXX	XXXXXX ENDEAVOUR DRIVE	APPLETON INTERNATIONAL AIRPORT	COUNTY: OUTAGAMIE	CROSS SECTIONS: ENDEAVOUR DRIVE	SHEET 19 of 19	E
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