

WARNING TO CONTRACTOR:

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STATE PLANE COORDINATE NOTE:

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OFF-SITE BENCHMARK INFORMATION:

FOUND NGS MONUMENT "Z 1451" BENCHMARK DISC SET IN THE SOUTHEAST ABUTMENT OF A BRIDGE OVER U.S. HWY 80, 148.9FT NORTHEAST OF THE NEAR RAIL, 9.3FT EAST-SOUTHEAST OF A UTILITY POLE. PUBLISHED ELEVATION: 2875.28' NAVD88 DATUM

SITE BENCHMARK:

SET 5/8" IRON ROD WITH RED CAP STAMPED "DUNAWAY CONTROL" NEAR THE INTERIOR ELL CORNER OF A WELL PAD, APPROX. 765' WEST OF FM 1788 AND APPROX. 3400' NORTH OF U.S. HWY 80. NAD83 GRID COORDINATES: N: 10,370,711.46' E: 1,709,814.32' NAVD88 ELEVATION = 2889.37'

GENERAL NOTES:

- DIMENSIONS AND COORDINATES PROVIDED INDICATE THE DESIGN INTENT OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY INCONSISTENCIES OR DISCREPANCIES FOUND DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES DURING CONSTRUCTION LAYOUT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION PHASE SURVEYING INCLUDING LOCATING AND VERIFYING PROJECT BENCHMARKS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS. THE CONTRACTOR SHALL PROVIDE CLEAN AND ACCURATE FULL-SIZE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ANY DEVIATIONS FROM THE PLANS.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING, IN ORDER OF PRECEDENCE, (1) DETAILS SHOWN IN THESE PLANS AND SPECIFICATIONS, (2) TEXAS DEPARTMENT OF TRANSPORTATION - "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAY, STREETS AND BRIDGES."
- IN AREAS WHICH ARE TO REMAIN UNDISTURBED, THE CONTRACTOR SHALL PRESERVE, PROTECT AND/OR RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO ORIGINAL CONDITION OR BETTER AT THE EXPENSE OF THE CONTRACTOR.
- IN THE EVENT THAT EXISTING PRIVATE UTILITY SERVICES SUCH AS WATER, GAS, TELEPHONE, ELECTRIC, ETC. MUST BE TAKEN OUT OF SERVICE TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SATISFACTION OF THE OWNER.
- THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS, AND IF DISTURBED, THEY SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.
- IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THIS PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.
- ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING UNSUITABLE SPOIL MATERIAL, REFUSE AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY REMOVED & DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT.
- THE CONTRACTOR SHALL MAKE A FINAL CLEAN-UP OF ALL PARTS OF THE WORK AND PREPARE THE SITE IN AN ORDERLY MANNER OF APPEARANCE BEFORE ACCEPTANCE BY THE COUNTY.
- HAUL ROADS, ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.
- D&S ENGINEERING LABS, LLC (D&S) HAS MADE AN INVESTIGATION OF SUBSURFACE SOIL CONDITIONS OF THE PROJECT SITE IN THEIR REPORT PROJECT NO. G18-2150-B, DATED APRIL 14, 2020, AND IS REFERENCED IN THE CONSTRUCTION DOCUMENTS AS "GEOTECHNICAL REPORT".
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION AS REQUIRED BY THE COUNTY AND STATE IN WHICH THE PROJECT IS LOCATED.
- CONTRACTOR SHALL PREPARE, FURNISH, MAINTAIN, AND REMOVE ALL TRAFFIC CONTROL DEVICES THROUGHOUT CONSTRUCTION. ALL DEVICES SHALL BE IN CONFORMANCE WITH THE TEXAS MUTCD, LATEST EDITION AS CURRENTLY AMENDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL AND SEQUENCING PLAN WITH SUBMISSION OF THE BID PACKET. THIS PLAN WILL BE REVIEWED FOR APPROVAL AND AS PART OF THE ASSESSMENT FOR AWARD OF BID. ROAD CLOSURES WILL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE COUNTY UPON APPROVAL OF SUBMITTED TRAFFIC CONTROL AND SEQUENCING PLAN.
- NO SPECIAL PAY FOR TRAFFIC CONTROL ITEMS NOT INCLUDED IN TRAFFIC CONTROL BID. ANY MATERIALS NEEDED FOR TRAFFIC CONTROL SHALL BE INCLUDED IN THE TRAFFIC CONTROL BID ITEM. COUNTY SHALL NOT PROVIDE ANY ASPECTS OF TRAFFIC CONTROL, SEQUENCING, OR ALTERNATIVE ROUTES.
- CONTRACTOR TO INSTALL 16-INCH HIGH-DENSITY POLYETHYLENE (HDPE) CONDUITS, AS SHOWN ON SHEETS 10-13, CROSSING PERPENDICULAR TO AND CENTERED ON THE RIGHT-OF-WAY WITH A THICKNESS OF SDR9. EACH END OF THE CONDUITS WILL PENETRATE THE SURFACE OF THE ADJACENT LANDS. A WELDED CAP SHALL BE INSTALLED ON ALL EXPOSED ENDS OF THE CONDUITS. CONDUIT LINES ARE TO BE PLACED NO CLOSER THAN TEN (10) FEET FROM ONE ANOTHER.

EROSION CONTROL NOTES:

- EROSION CONTROL MEASURES SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE. ANY CHANGES TO THE SWPPP SHALL SUPERSEDE THE EROSION CONTROL PLAN. THE SWPPP IS TO BE KEPT ON-SITE AT ALL TIMES WITH THESE CONSTRUCTION DOCUMENTS AS NECESSARY FOR COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS AND MAINTAINING COMPLIANCE WITH THE GENERAL PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, ROUTINE INSPECTION AND/OR MAINTENANCE OF EROSION CONTROL DEVICES.
- THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ACCEPTABLE VEGETATION COVERAGE HAS BEEN ACHIEVED IN ACCORDANCE WITH THE GENERAL PERMIT.
- ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO COMPLY WITH THE SWPPP OR TCEQ STORMWATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT HIS EXPENSE.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED/SODDED WITHIN SEVEN DAYS IN ACCORDANCE WITH THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING SEEDED/SODDED AREAS AS NECESSARY UNTIL 70% VEGETATION IS ESTABLISHED IN ACCORDANCE WITH THE PLANS.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION CONTROL MEASURES ONCE FINAL GROUND STABILIZATION IS ACHIEVED AND THE PROJECT IS COMPLETED.

GRADING NOTES:

- THE AREA TO BE GRADED SHOULD BE STRIPPED OF VEGETATION, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIALS.
- CONSTRUCTION SHALL BE BASED ON ELEVATIONS SHOWN ON THE ROADWAY PLAN & PROFILE SHEETS PLAN. CONTOURS ARE A VISUAL REPRESENTATION OF FINISHED GRADE ONLY AND ARE NOT INTENDED TO BE USED TO SET GRADE.
- SLOPES ON SITE SHALL NOT EXCEED A 3:1 SLOPE, UNLESS NOTED OTHERWISE.
- ANY COSTS ASSOCIATED WITH DEWATERING THE SITE SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS AT CONNECTIONS TO EXISTING PAVEMENT.

DEMOLITION NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING OF EXISTING STRUCTURES, UTILITIES, PAVEMENT, TREES, ETC., WITHIN CONSTRUCTION LIMITS AS SHOWN ON PLANS, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES AT CONTRACTOR'S EXPENSE. AREAS WHERE MATERIAL HAS BEEN REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT BACK UP TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL IN ACCORDANCE WITH GEOTECHNICAL REPORT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES/FLOWLINES.
- CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- CONTRACTOR MAY LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AT THE EXISTING OR PROPOSED LOCATION AS DIRECTED BY THE COUNTY.

PAVING NOTES:

- THE CONTRACTOR SHALL PROVIDE A FULL DEPTH SAW-CUT AND SMOOTH TRANSITION AT CONNECTIONS TO EXISTING PAVEMENT.
- SUBGRADE SHALL BE MAINTAINED TO WITHIN THE SPECIFIED REQUIREMENTS OF MOISTURE AND DENSITY UNTIL PAVING IS PLACED. PRIOR TO PLACING PAVEMENT, THE CONTRACTOR SHALL RE-TEST THE AREAS SELECTED BY THE CONSTRUCTION MATERIALS TESTING LAB PERSONNEL AT THE CONTRACTOR'S EXPENSE OR IF REQUESTED BY THE ENGINEER, AND IF THE SUBGRADE HAS BEEN PLACED AND ACCEPTED FOR LONGER THAN TEN (10) DAYS AND NO PAVEMENT HAS BEEN CONSTRUCTED.
- REFERENCE PLAN & PROFILES AND TYPICAL SECTIONS FOR PAVING DIMENSIONS AND LAYOUT.

PLAN LEGEND

---	CENTER OF ROAD
---	RIGHT-OF-WAY
---	PROPOSED CENTERLINE DITCH
---	EXISTING ASPHALT
---	PROPOSED ASPHALT
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	EXISTING FENCE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING FEMA ZONE A EXTENTS
EX-CABLE	EXISTING CABLE LINE
EX-W	EXISTING WATER LINE
EX-SS	EXISTING SANITARY SEWER LINE
EX-GAS	EXISTING GAS LINE
EX-PL	EXISTING PIPELINE
---	EXISTING SIGN
---	EXISTING GUY WIRE
---	EXISTING LIGHT POLE
---	EXISTING UTILITY POLE
---	EXISTING TRAFFIC SIGNAL LIGHT
---	EXISTING WATER METER
---	EXISTING WATER VALVE
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING CABLE BOX
---	EXISTING GAS METER
---	EXISTING ELECTRICAL BOX
---	EXISTING ELECTRICAL VAULT
---	EXISTING SIGNAL BOX
---	EXISTING CONCRETE
---	EXISTING GRAVEL ROAD
---	EXISTING ASPHALT ROAD
---	PROPOSED CONCRETE
FG	FINAL GRADE
FL	FLOWLINE
LT	LEFT
RT	RIGHT
TP	TOP OF PAVEMENT

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FILE NAME: GENERAL NOTES.dwg PLOTTED BY: JENIFER L. BECKER PLOTTED DATE: 04/30/21

				JRA
				DESIGNED
				MNM
				DRAWN
				BIB
				CHECKED
NO.	REVISION	BY	DATE	

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
HORIZ N/A	APRIL 2021
VERT N/A	
WATER NUMBER N/A	COUNTY NUMBER N/A
SEWER NUMBER N/A	DOE NUMBER N/A

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889 • Fax: 432.682.7722
[TX REG. F-1114]

STATE OF TEXAS
JENIFER L. BECKER
102960
PROFESSIONAL ENGINEER
04/30/21

MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
GENERAL NOTES	1

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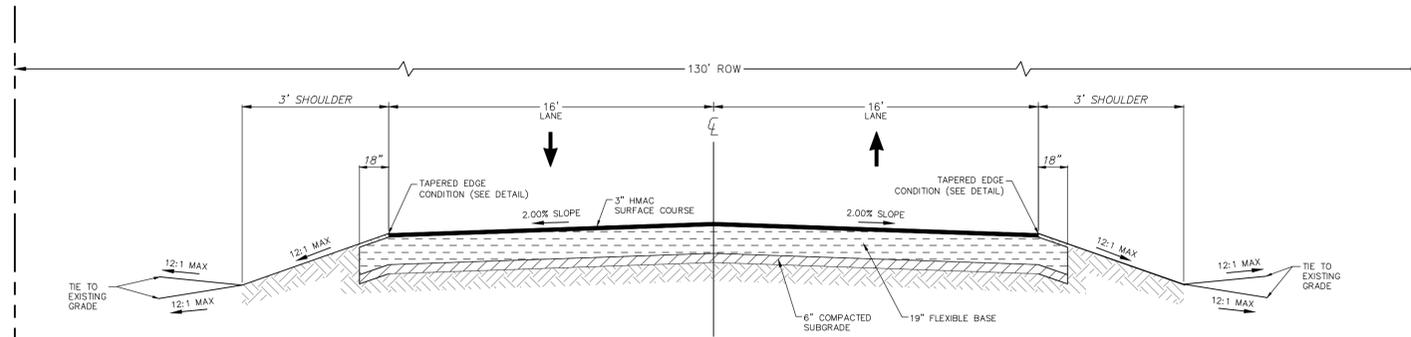
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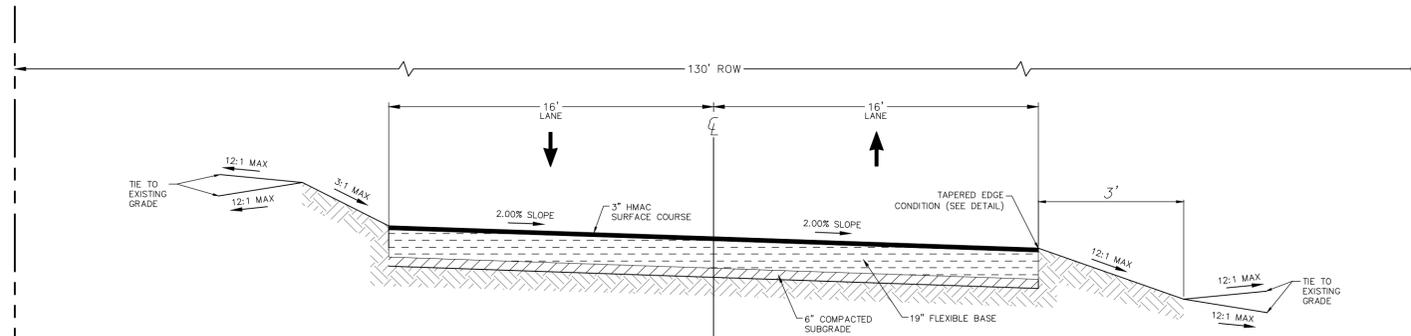
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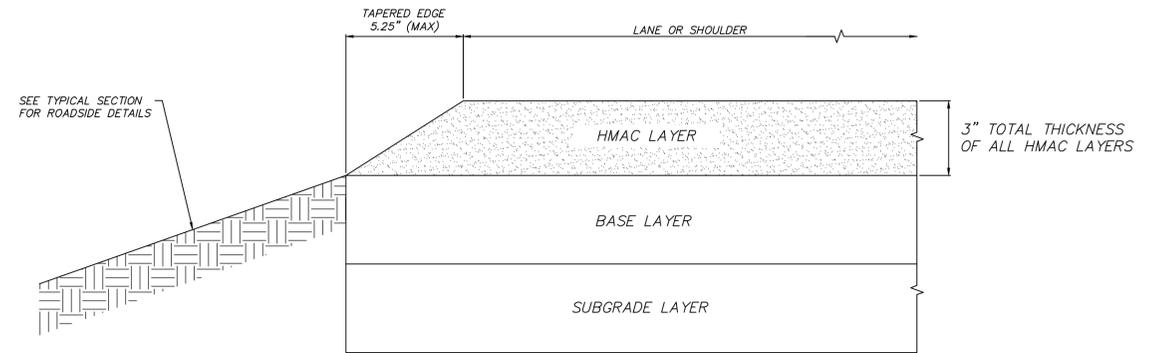
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**CROWNED PAVEMENT
130' R.O.W. TYPICAL SECTION**
NOT TO SCALE



**PITCHED PAVEMENT
130' R.O.W. TYPICAL SECTION**
NOT TO SCALE



**TAPERED EDGE CONDITION
HMAC PAVEMENT**
NOT TO SCALE

NOTES:

- NATIVE SOILS AND IMPORTED FILL MAY BE USED TO LEVEL THE PROJECT. GENERAL FILL SHALL CONSIST OF SC-SM, SC, CL, GC, OR GW-GC SOIL CLASSIFICATION TYPES. IN ADDITION, SELECT FILL SHALL POSSESS A PLASTICITY INDEX, PI, FROM 3 TO 15 AND SHALL NOT POSSESS PARTICLE SIZES GREATER THAN 3-INCHES. ALTERNATIVELY, CRUSHED STONE MATERIALS USED AS FILL SHALL MEET TXDOT ITEM 247 GRADE 3 SPECIFICATIONS (OR BETTER). ALL GENERAL FILL SHALL BE PLACED IN 9-INCH MAXIMUM LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF ASTM D1557 WITH NEAR OPTIMUM MOISTURE CONTENT. TESTING FREQUENCY OF ONE TEST PER 500 LINEAR FEET OF ROADWAY PER LIFT. FOR SMALLER AREAS ONE TEST PER 7,500 SQUARE FEET OF AREA PER LIFT.
- SUBGRADE SOILS BENEATH PAVEMENTS SHALL BE COMPACTED THEN PROOF-ROLL TESTED WITH A FULLY LOADED WATER TRUCK OR LOADED DUMP TRUCK. THE PROOF-ROLL TEST IS CONSIDERED PASSING IF SOIL DEFLECTIONS ARE LESS THAN 1/4-INCH WHEN TESTED USING A LOADED DUMP TRUCK (OR SIMILAR). WHEN USING THE PROOF-ROLLED METHOD 100% COVERAGE OVER THE ROADWAY WITH A MINIMUM OF 2 PASSES PER AREA IS RECOMMENDED. ALTERNATIVELY, SUBGRADE VERIFICATION MAY BE PERFORMED USING A NUCLEAR DENSITY GAUGE, WHERE SUBGRADE DENSITY SHALL BE GREATER THAN 95% COMPACTION PER ASTM D1557 WITH NEAR OPTIMUM MOISTURE CONTENT. WHEN USING THE NUCLEAR DENSITY METHOD TESTING FREQUENCY WILL BE ONE TEST PER 500 LINEAR FEET OF ROADWAY.
- PROPOSED FLEXIBLE BASE MATERIAL SHALL BE CRUSHED ROCK CONFORMING TO TXDOT STANDARD SPECIFICATION ITEM NO. 247, GRADE 3 OR BETTER. THE FLEXIBLE BASE MATERIAL SHALL BE INSTALLED IN TWO (2) SIX INCH (6") COMPACTED LIFTS. ADDITIONALLY THE FLEXIBLE BASE MATERIAL SHALL POSSESS A WET BALL MILL % MAX OF 45 AND A WET BALL MILL % MAX INCREASE PASSING THE #40 SIEVE OF 25. EACH LIFT SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MATERIAL'S OPTIMUM DENSITY AS PER ASTM D1557 WITH MOISTURE CONTENT ±2% OF OPTIMUM.
- PRIME COAT SHALL BE PER TXDOT ITEM 310 SPECIFICATIONS.
- PROPOSED ASPHALT IS A TYPE D HMAC THAT SHALL MEET TXDOT ITEM 340 SPECIFICATIONS.
- THE NOTES AS SHOWN ABOVE ARE PER THE GEOTECHNICAL ASSESSMENT PREPARED BY D&S, WHICH SHALL BE REFERENCED FOR ADDITIONAL INFORMATION AND SPECIFICATIONS. ANY SUBSEQUENT REVISIONS TO THIS ASSESSMENT SHALL GOVERN.
- THE TAPERED EDGE CONDITION AT THE EDGE OF PAVEMENT SHALL BE AS SHOWN IN THE TAPERED EDGE CONDITION HMAC PAVEMENT DETAIL. THE SLOPE OF THE TAPERED EDGE SHALL BE 1.75H:1V, WHICH IS 5.25° FOR 3" OF HMAC PAVEMENT. THIS TAPERED EDGE CONDITION SHALL APPLY AT ALL LOCATIONS FOR ALL TYPICAL SECTIONS.

FILE PATH: C:\p\m\c\2021\0410\B001484\0410\Drawings\Typical Sections\Typical Sections.dwg

FILE NAME: TYPICAL SECTIONS.dwg
PLOTTER: HP DesignJet 500
PLOT DATE: 04/30/21

NO.	REVISION	BY	DATE

JRA	DESIGNED
JRA	DRAWN
BIB	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

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DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889 • Fax: 432.682.7722
[TX REG. F-1114]



MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
TYPICAL SECTIONS	2

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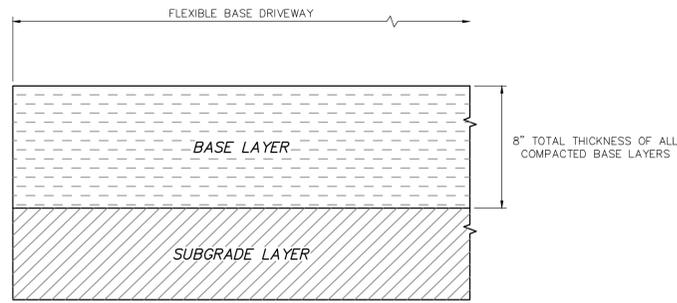
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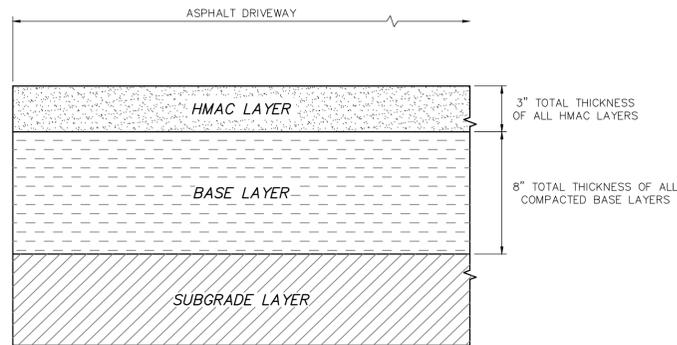
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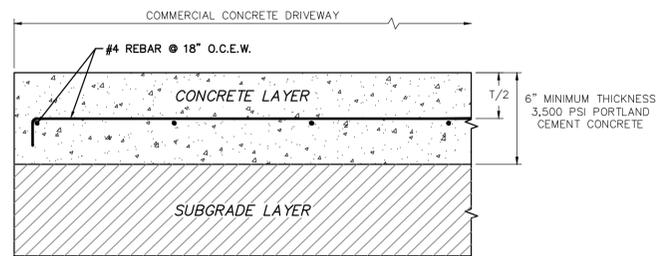
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TYPICAL FLEXIBLE BASE DRIVEWAY SECTION
NOT TO SCALE



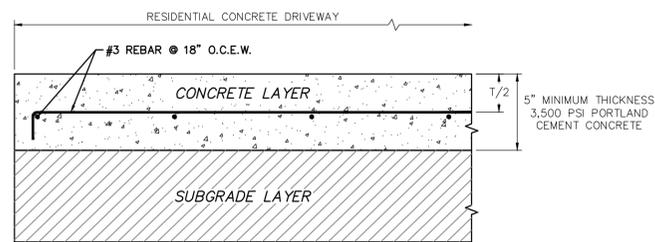
TYPICAL ASPHALT DRIVEWAY SECTION
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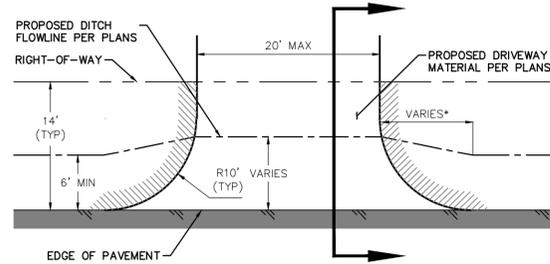
COMMERCIAL

TYPICAL CONCRETE DRIVEWAY SECTIONS
NOT TO SCALE

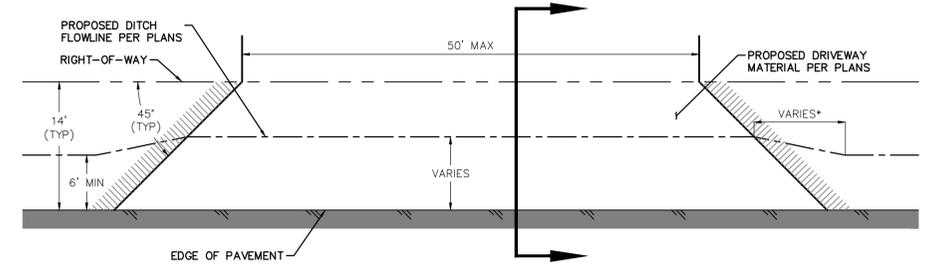
NOTE:
CONTRACTOR TO FOLLOW TYPICAL CONCRETE SECTIONS SHEET FOR JOINTING DETAILS AND NOTES.



RESIDENTIAL



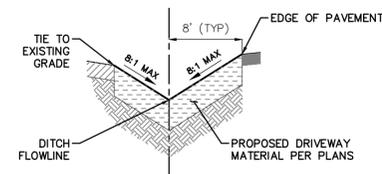
RESIDENTIAL PLAN VIEW



COMMERCIAL PLAN VIEW

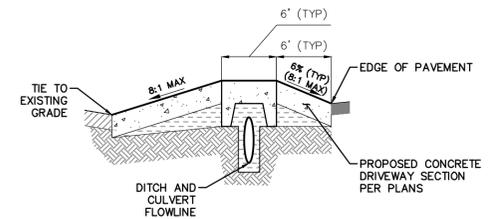
VARIES* - LENGTH TO PROVIDE A SMOOTH TRANSITION IN DITCH CENTERLINE. TYPICAL LENGTH OF 5' FOR EVERY 1' OF HORIZONTAL ADJUSTMENT (5:1).

TYPICAL DRIVEWAYS
NOT TO SCALE



INVERTED FLOWLINE DRIVEWAY SECTION

- NOTES:
1. FLOW LINE FOR ROAD DITCH SHALL REMAIN WITHIN THE R.O.W.
 2. CONTRACTOR TO FIELD FIT DRIVEWAY FROM FLOW LINE TO CURRENT CONDITIONS ALONG THE R.O.W.
 3. IF DITCH CANNOT BE ACCOMMODATED WITHIN THE R.O.W. AT THE DEPTHS SHOWN ON THE PLAN AND PROFILE SHEETS, CONTRACTOR MAY INSTALL CULVERT(S) FOLLOWING THE CULVERT DRIVEWAY SECTION PER THIS DETAIL.



CULVERT DRIVEWAY SECTION

- NOTES:
1. CONCRETE SECTION TO FOLLOW TYPICAL CONCRETE DRIVEWAY SECTIONS DETAIL, THIS SHEET.
 2. CONCRETE SECTION SHALL USE FOOTERS TO SPAN THE CULVERT(S) DITCH, PLACED ON UNDISTURBED SUB-GRADE OR COMPACTED BASE MATERIALS.
 3. MINIMUM CULVERT SIZE SHALL BE 12" OR EQUIVALENT.
 4. CULVERT MATERIAL SHALL BE REINFORCED CONCRETE, HIGH-DENSITY POLYETHYLENE, OR CORRUGATED METAL.
 5. CULVERT COVER SHALL MEET OR EXCEED MINIMUM PER MATERIAL MANUFACTURER OR 1'-FOOT, WHICHEVER IS LESS.
 6. CULVERT COVER MAY BE REDUCED WITH USE OF RCP CLASS IV OR CONCRETE ENCASEMENT A MINIMUM OF 6-INCHES FROM OUTSIDE EDGE OF PIPE TO TRENCH WALLS.
 7. CULVERTS SHALL BE PLACED TO MAINTAIN POSITIVE DRAINAGE ALONG PROPERTY FRONTAGE.
 8. CONTRACTOR TO INSTALL SAFETY END TREATMENTS FOLLOWING TxDOT DETAIL SETP-PD, WHERE PRACTICABLE. IF A SETP-PD IS NOT FEASIBLE, CONTRACTOR TO INSTALL A SAFETY END TREATMENT FOR PIPE CULVERTS FROM TxDOT'S BRIDGE STANDARD DETAILS.
 9. MAXIMUM SLOPES OF THE DRIVEWAY MATERIALS FOR GRADES SHALL BE 8:1 IN ANY DIRECTION.

TYPICAL DRIVEWAY CROSS-SECTION
NOT TO SCALE

FILE PATH: C:\Production\001484\001484.dwg (17/04/2021 10:58:10 AM) User: JLB

PLANNED BY: JLB
DESIGNED BY: JLB
DRAWN BY: JLB
CHECKED BY: JLB
DATE: 04/30/21

NO.	REVISION	BY	DATE	CHECKED
		JLB		
		DESIGNED		
		JLB		
		DRAWN		
		JLB		
		CHECKED		

MIDLAND COUNTY MIDLAND, TEXAS	SCALE	DATE
	HORIZ N/A VERT N/A	APRIL 2021
	WATER NUMBER N/A SEWER NUMBER N/A	COUNTY NUMBER N/A DOE NUMBER N/A

SCALE	DATE
HORIZ N/A VERT N/A	APRIL 2021
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DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889 • Fax: 432.682.7722
(TX REG. F-1114)

STATE OF TEXAS
JENNIFER L. BECKER
102960
PROFESSIONAL ENGINEER
04/30/21

MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
TYPICAL DRIVEWAY DETAILS	4

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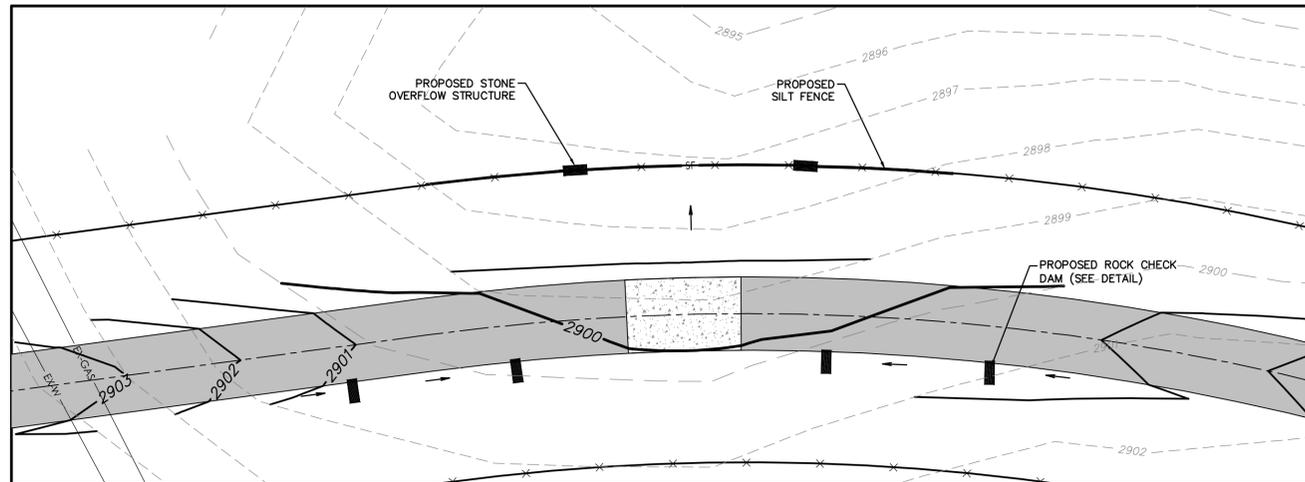
OFF-SITE BENCHMARK INFORMATION:

FOUND NGS MONUMENT "Z 1451" BENCHMARK DISC SET IN THE SOUTHEAST ABUTMENT OF A BRIDGE OVER U.S. HWY 80, 148.9FT NORTHEAST OF THE NEAR RAIL, 9.3FT EAST-SOUTHEAST OF A UTILITY POLE. PUBLISHED ELEVATION: 2875.28' NAVD88 DATUM

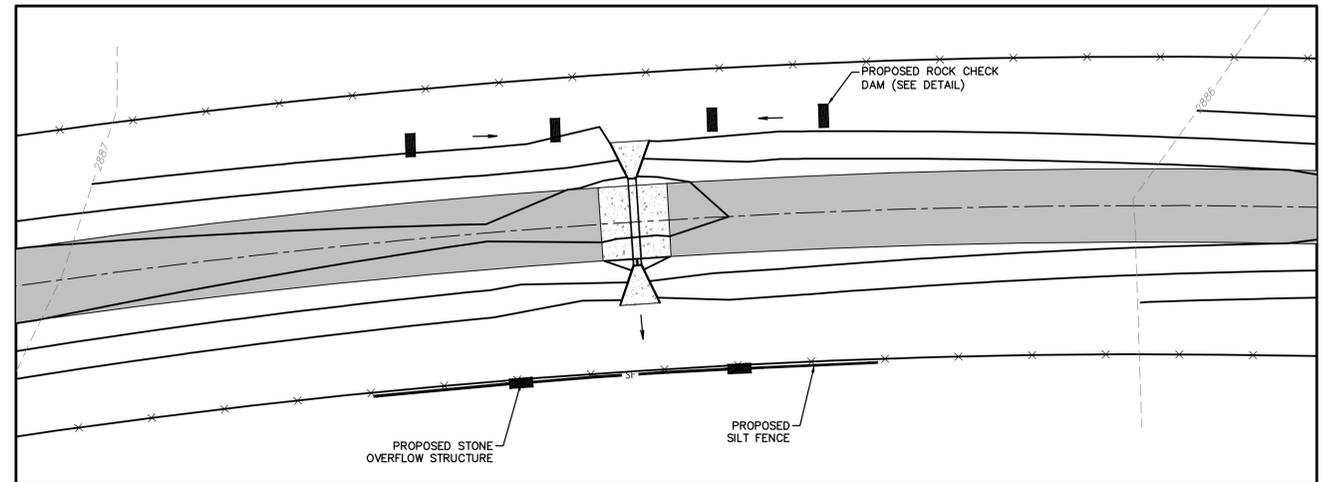
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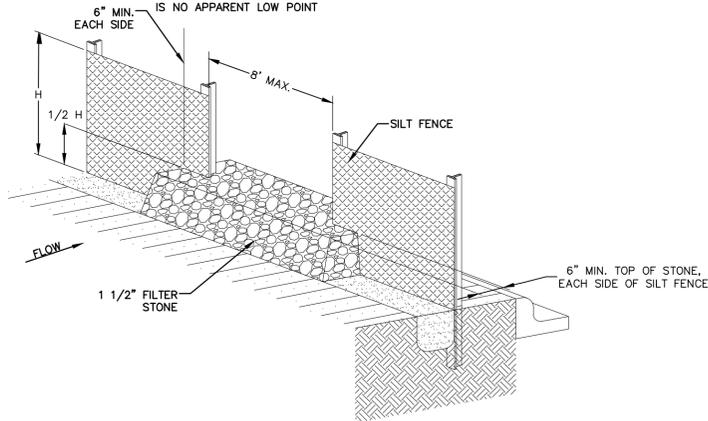
TYPICAL EROSION CONTROL PLAN FOR LOW WATER CROSSINGS



TYPICAL EROSION CONTROL PLAN FOR CULVERT CROSSINGS

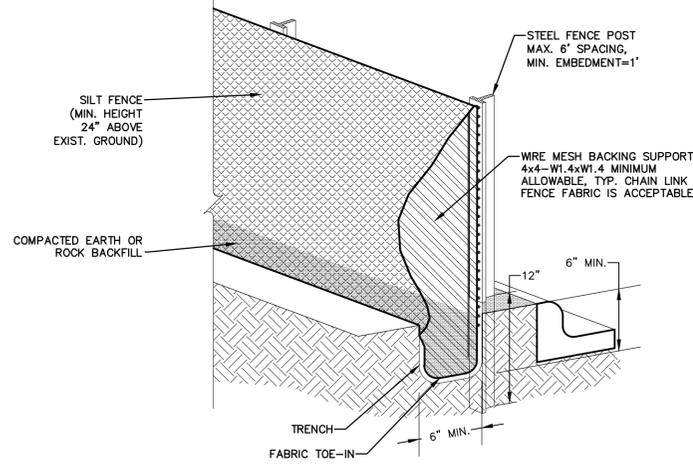


NOTE: STONE OVERFLOW STRUCTURES OF OTHER OUTLET CONTROL DEVICES SHALL BE INSTALLED AT ALL LOW POINTS ALONG THE FENCE OR EVERY 300 FEET IF THERE IS NO APPARENT LOW POINT



SILT FENCE STONE OVERFLOW STRUCTURE

NOT TO SCALE



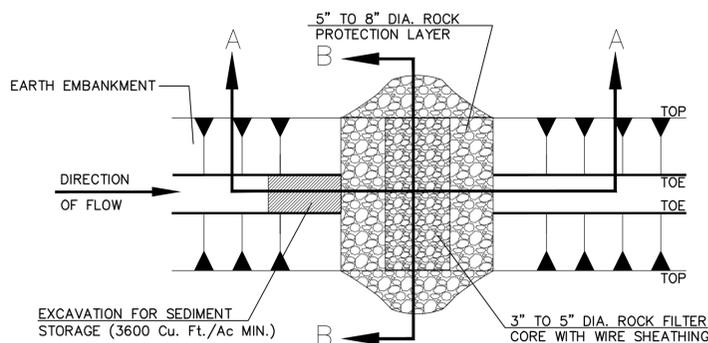
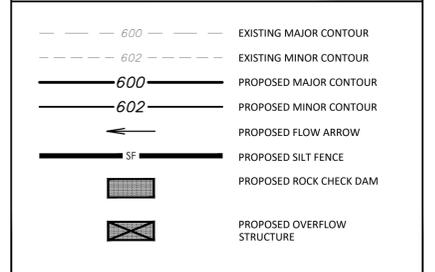
SILT FENCE

NOT TO SCALE

SILT FENCE GENERAL NOTES:

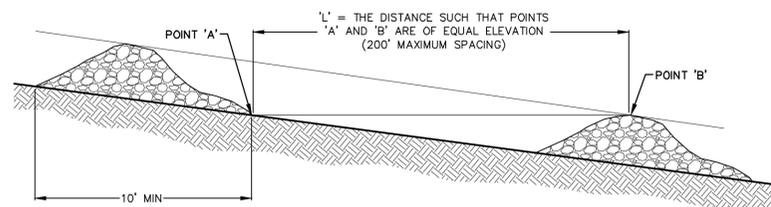
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

EROSION CONTROL LEGEND

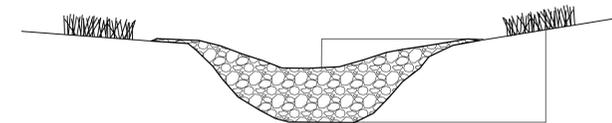


ROCK CHECK DAM

NOT TO SCALE



SECTION A-A



SECTION B-B (LOOKING UPSTREAM)

NOTE: KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT OVER FLOW AROUND DAM.

FILE PATH: C:\ProgramData\Bentley\Drawings\2021\Drawings\Typical Erosion Control.dwg

FILENAME: TYPICAL EROSION CONTROL.dwg
PLOTTER: HP DesignJet 5000
PLOT DATE: 04/30/21

NO.	REVISION	BY	DATE	CHECKED

JLB	DESIGNED
JLB	DRAWN
BIB	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
HORIZ N/A	APRIL 2021
VERT N/A	
WATER NUMBER N/A	COUNTY NUMBER N/A
SEWER NUMBER N/A	DOE NUMBER N/A



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[TX REG. F-1114]



MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
TYPICAL EROSION CONTROL	5

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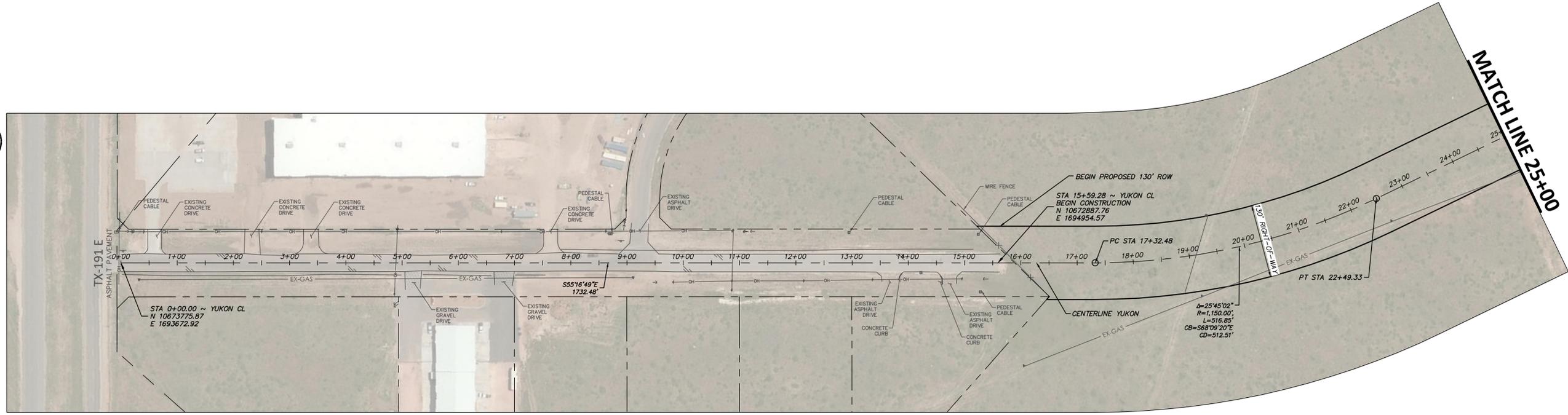
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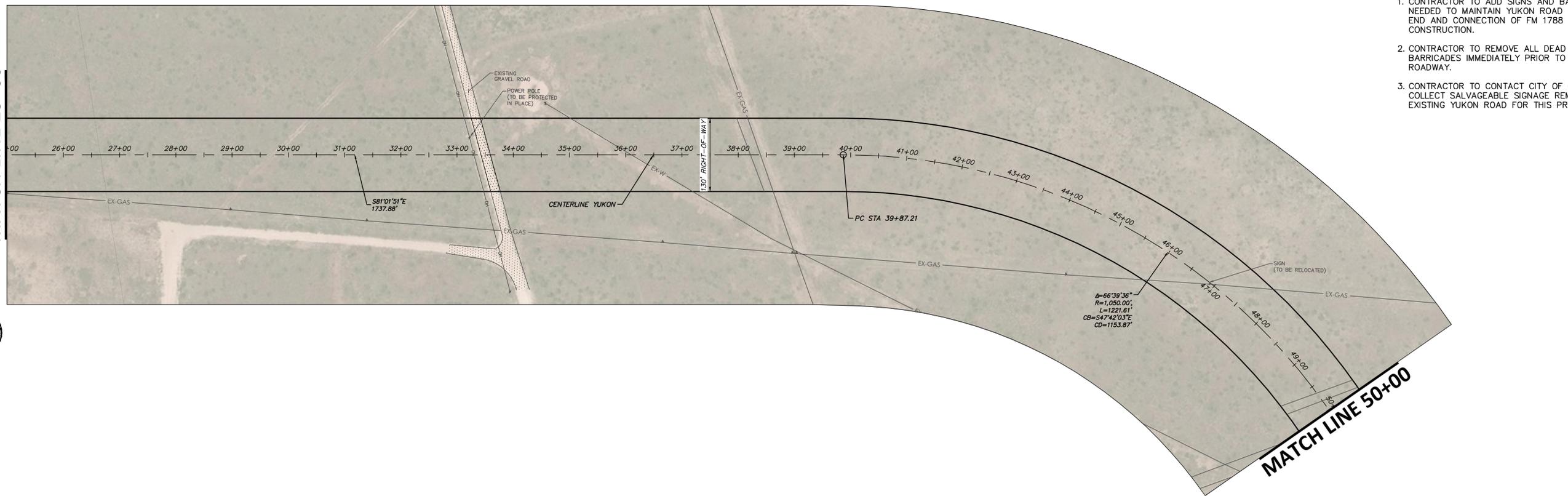
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PLOT DATE: 04/30/21

NO.	REVISION	BY	DATE	CHECKED

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DESIGNED		HORIZ 1" = 100'	APRIL 2021
DRAWN		VERT N/A	COUNTY NUMBER N/A
BIB		SEWER NUMBER N/A	DOE NUMBER N/A

WATER NUMBER N/A	COUNTY NUMBER N/A
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DUNAWAY
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MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
OVERALL ROADWAY STATIONING STA 0+00 TO STA 50+00	6

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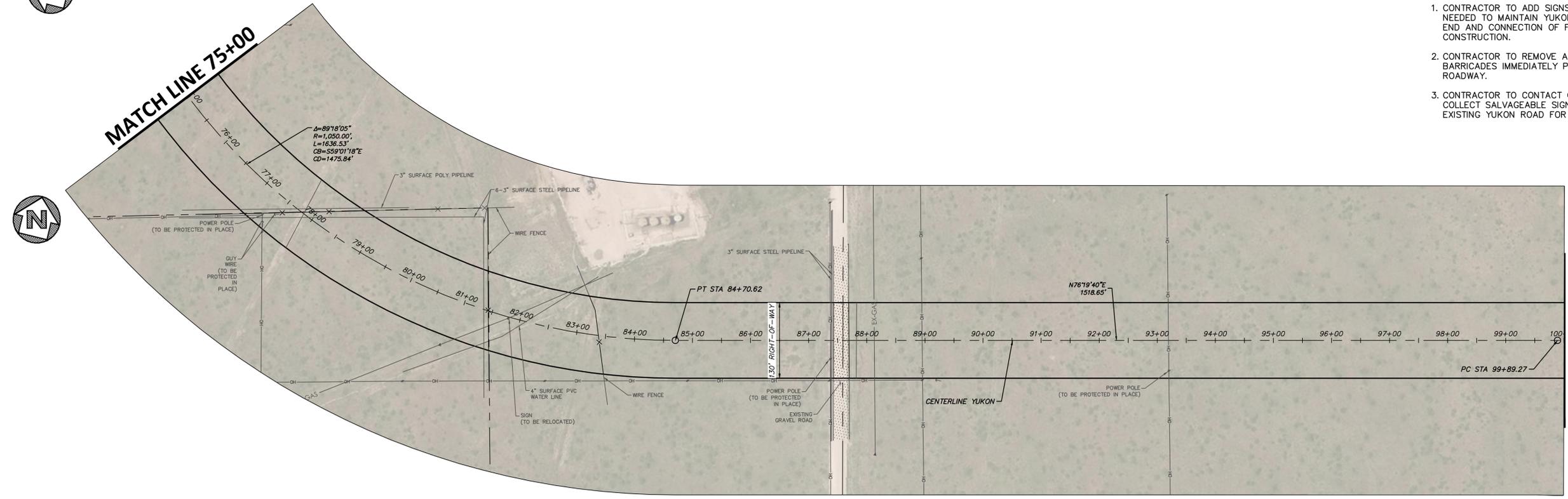
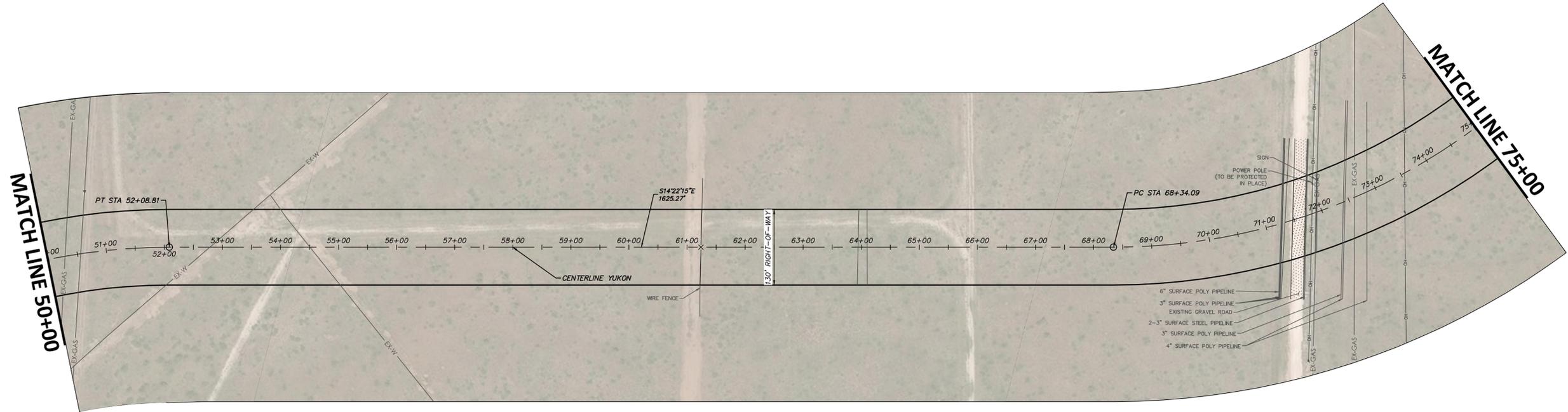
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NO.	REVISION	BY	DATE	CHECKED

JRA
DESIGNED
MNM
DRAWN
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CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
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MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
OVERALL ROADWAY STATIONING STA 50+00 TO STA 100+00	7

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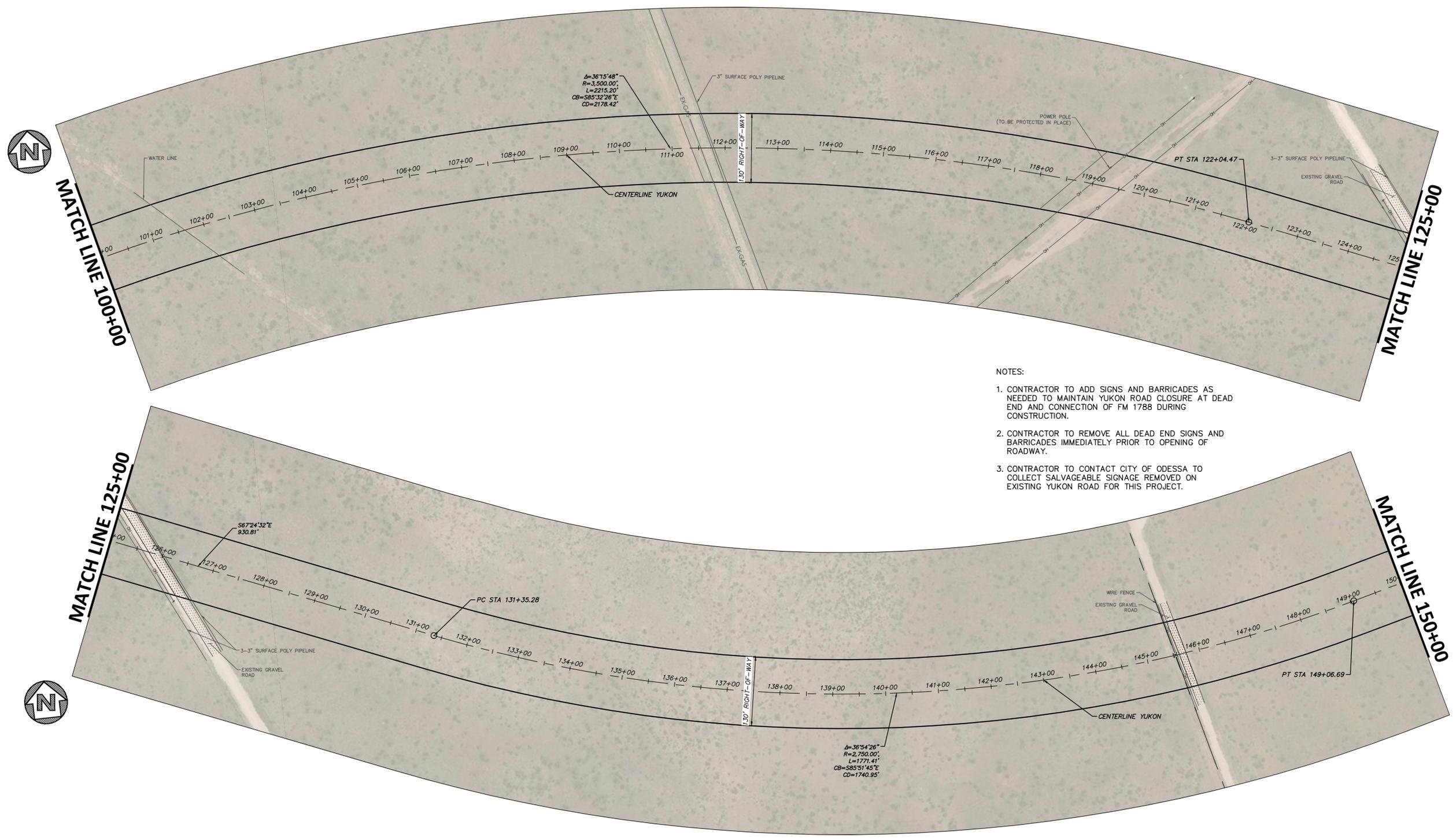
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NO.	REVISION	BY	DATE	CHECKED

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DESIGNED		HORIZ 1" = 100'	APRIL 2021
MNM		VERT N/A	
DRAWN		WATER NUMBER N/A	COUNTY NUMBER N/A
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CHECKED			

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COUNTY NUMBER	N/A
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 Jennifer L. Becker
 PROFESSIONAL ENGINEER
 04/30/21

MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
OVERALL ROADWAY STATIONING STA 100+00 TO STA 150+00	8

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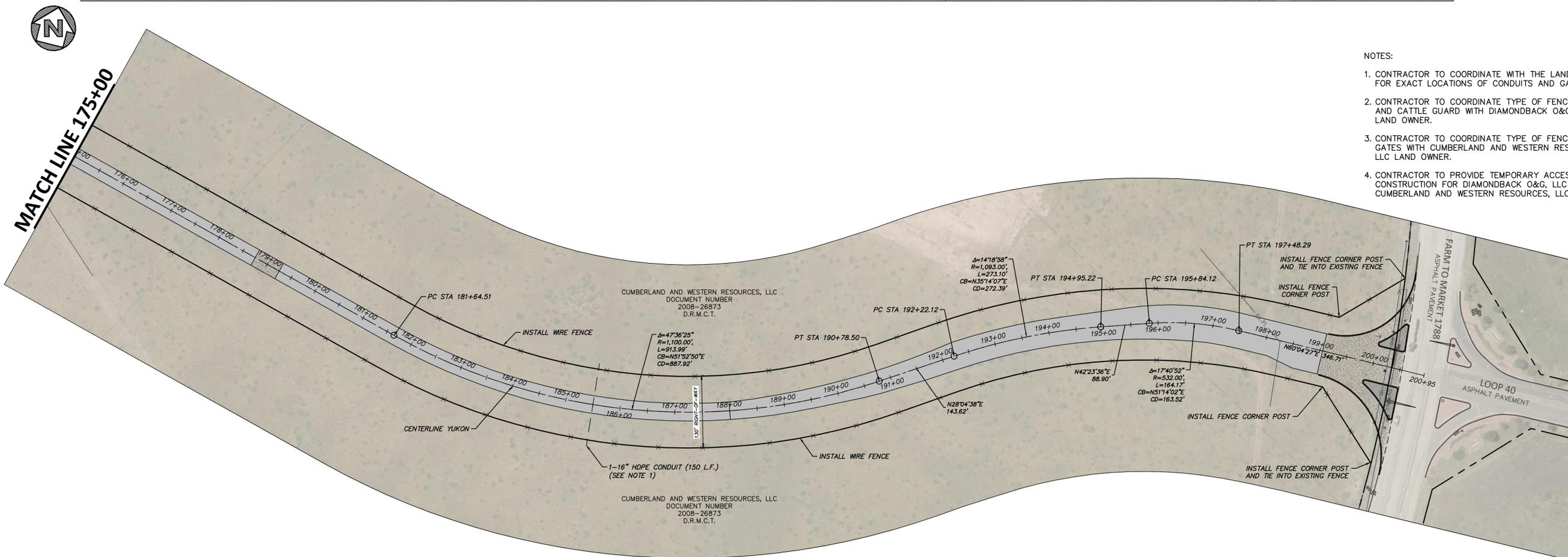
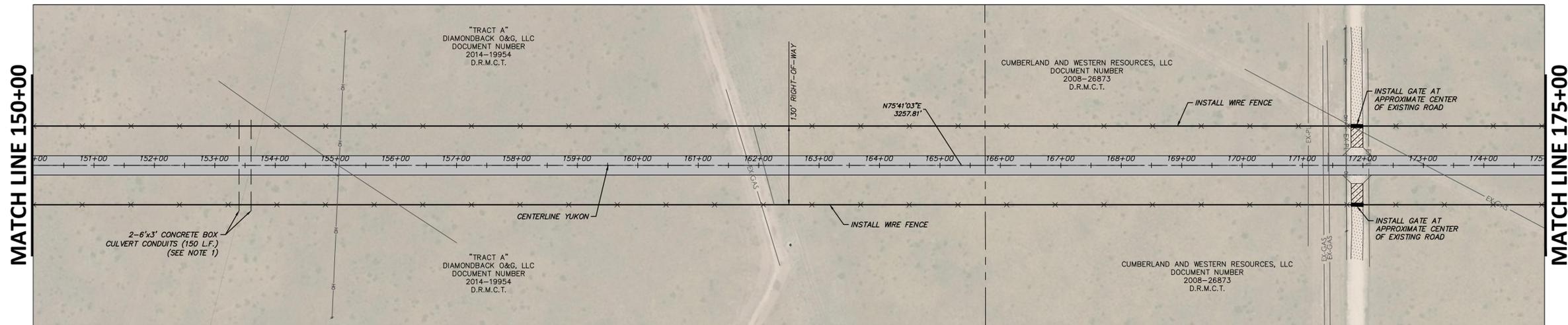
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 - CONTRACTOR TO COORDINATE TYPE OF FENCE, GATES, AND CATTLE GUARD WITH DIAMONDBACK O&G, LLC LAND OWNER.
 - CONTRACTOR TO COORDINATE TYPE OF FENCE AND GATES WITH CUMBERLAND AND WESTERN RESOURCES, LLC LAND OWNER.
 - CONTRACTOR TO PROVIDE TEMPORARY ACCESS DURING CONSTRUCTION FOR DIAMONDBACK O&G, LLC AND CUMBERLAND AND WESTERN RESOURCES, LLC TRACTS.

FILE PATH: G:\Production\2021\04\18\1788\1788\1788.dwg

FILE NAME: FENCING AND CONDUIT PLAN
DRAWN BY: JENIFER L. BECKER
CHECKED BY: JENIFER L. BECKER

NO.	REVISION	BY	DATE	CHECKED

JRA	DESIGNED	MNM	DRAWN	BIB	CHECKED
MIDLAND COUNTY MIDLAND, TEXAS					
SCALE	HORIZ 1" = 100'	VERT N/A	DATE	APRIL 2021	
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STATE OF TEXAS
 JENIFER L. BECKER
 LICENSED PROFESSIONAL ENGINEER
 102960
 04/30/21

MIDLAND COUNTY	DA PROJECT
YUKON ROAD	B001484.017
FENCING AND CONDUIT PLAN STA 150+00 TO END	SHEET
	13



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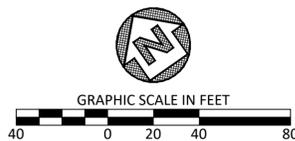
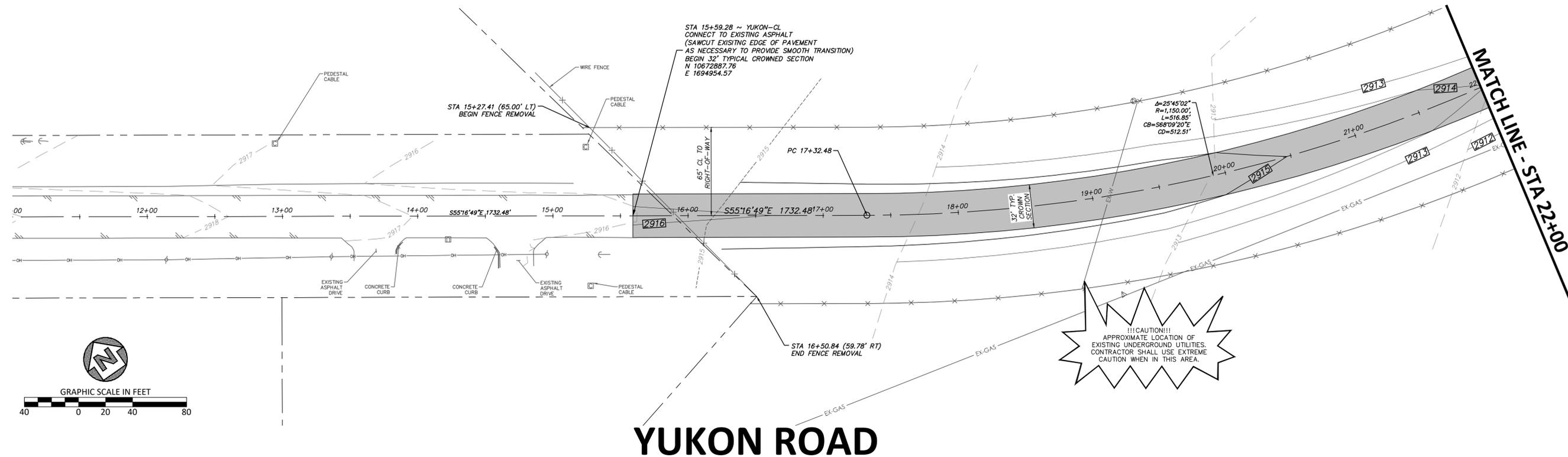
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OFF-SITE BENCHMARK INFORMATION:

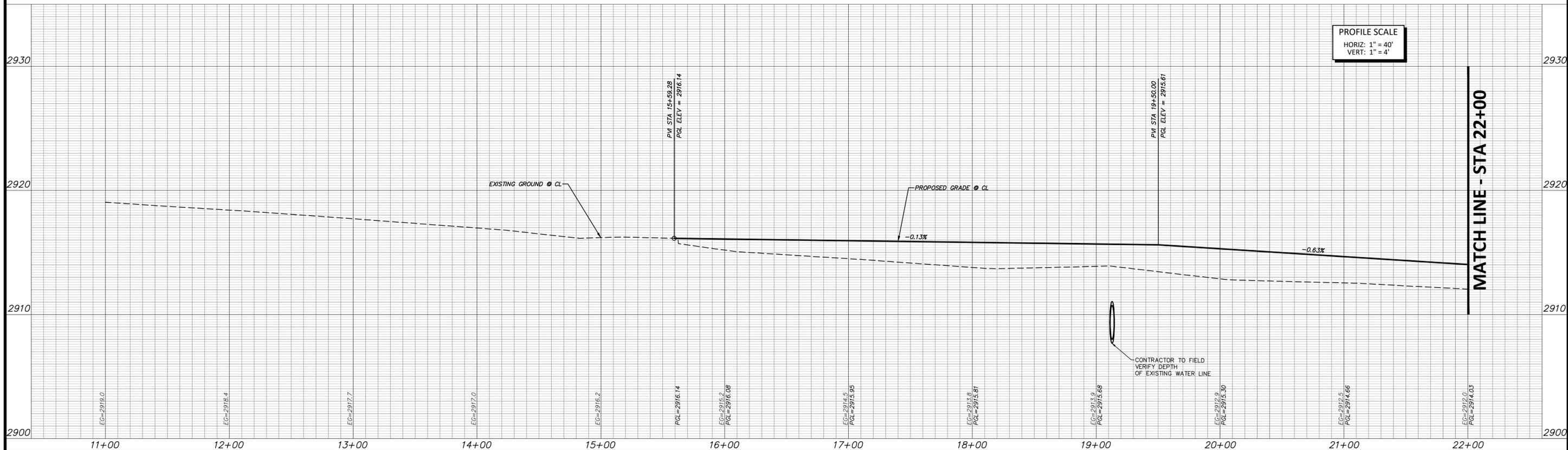
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YUKON ROAD



PROFILE SCALE
HORIZ: 1" = 40'
VERT: 1" = 4'

MATCH LINE - STA 22+00

FILE PATH: C:\Production\2021\04\03\11+00 to 22+00\11+00 to 22+00.dwg

DRAWN BY: J. BECKER
CHECKED BY: J. BECKER
DATE: 04/30/21

NO.	REVISION	BY	DATE	CHECKED

JRA
DESIGNED
MNM
DRAWN
BIB
CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
HORIZ 1" = 40'	APRIL 2021
VERT 1" = 4'	
WATER NUMBER N/A	COUNTY NUMBER N/A
SEWER NUMBER N/A	DOE NUMBER N/A

DUNAWAY

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889 • Fax: 432.682.7722
(TX REG. F-1114)



MIDLAND COUNTY
YUKON ROAD
YUKON RD PLAN & PROFILE
STA 11+00 TO 22+00

DA PROJECT
B001484.017

SHEET
14



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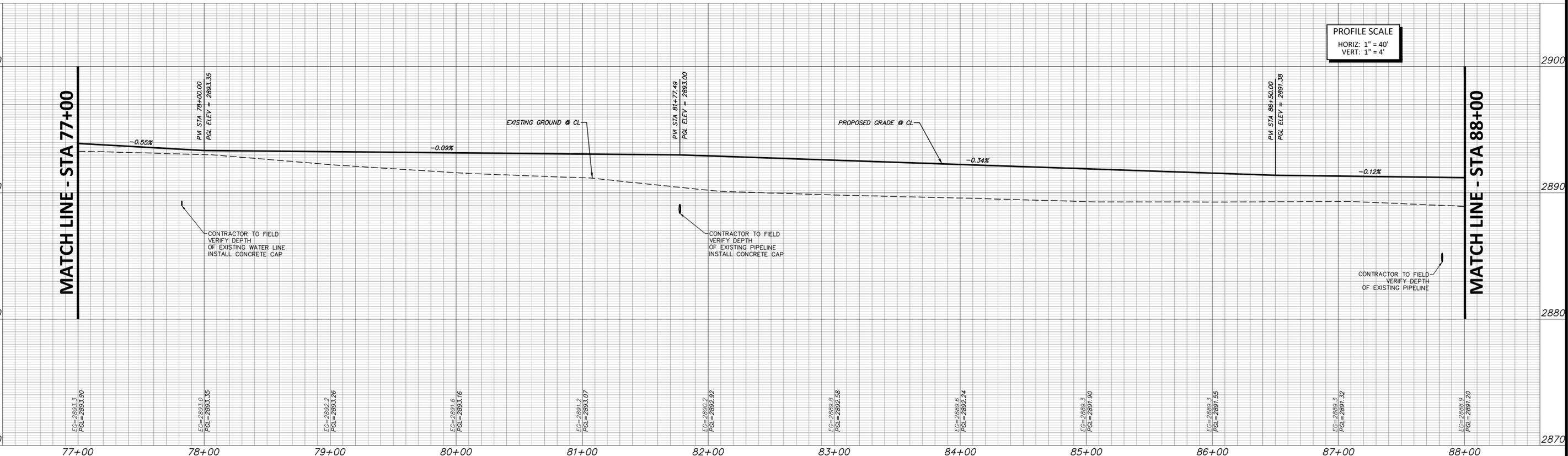
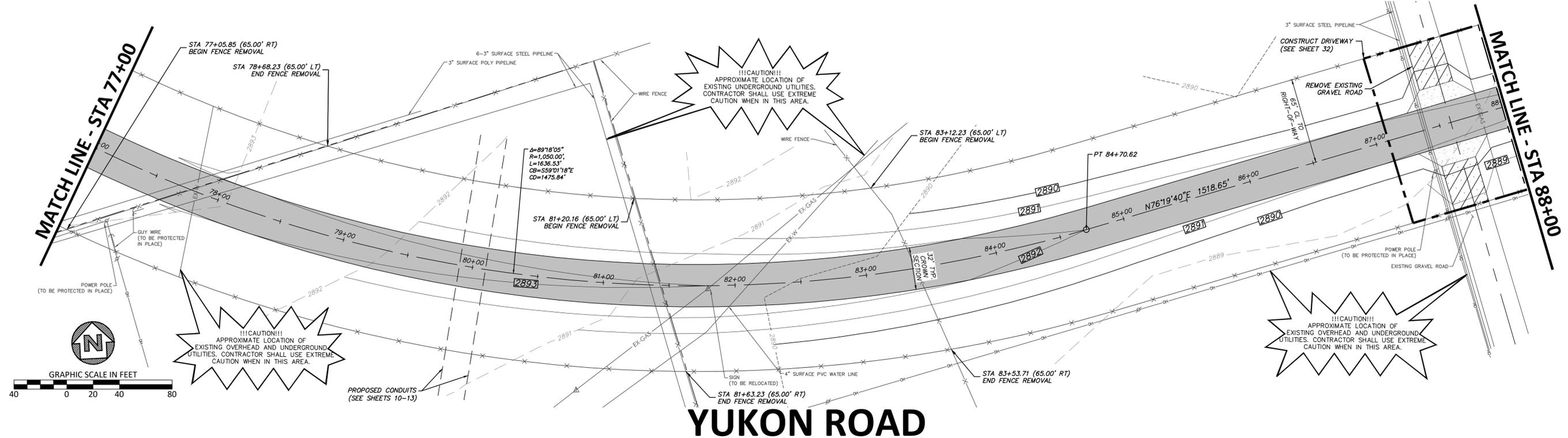
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 PLOTTER: HP DesignJet 5000 Series
 PLOTTED BY: J. Beckler
 PLOTT DATE: 04/30/21

NO.	REVISION	BY	DATE

JRA	DESIGNED	
MNM	DRAWN	
BIB	CHECKED	

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
HORIZ 1" = 40'	APRIL 2021
VERT 1" = 4'	
WATER NUMBER N/A	COUNTY NUMBER N/A
SEWER NUMBER N/A	DOE NUMBER N/A

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889 • Fax: 432.682.7722
 [TX REG. F-1114]



MIDLAND COUNTY
YUKON ROAD
 YUKON RD PLAN & PROFILE
 STA 77+00 TO 88+00

DA PROJECT	B001484.017
SHEET	20



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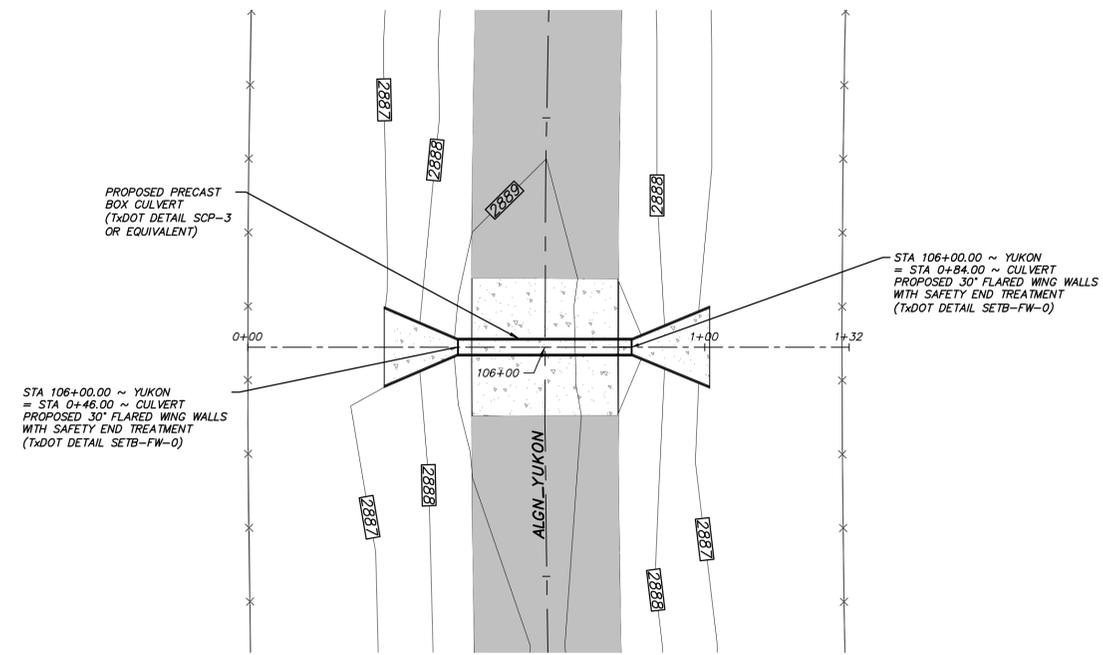
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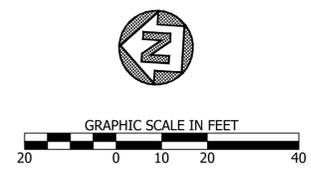
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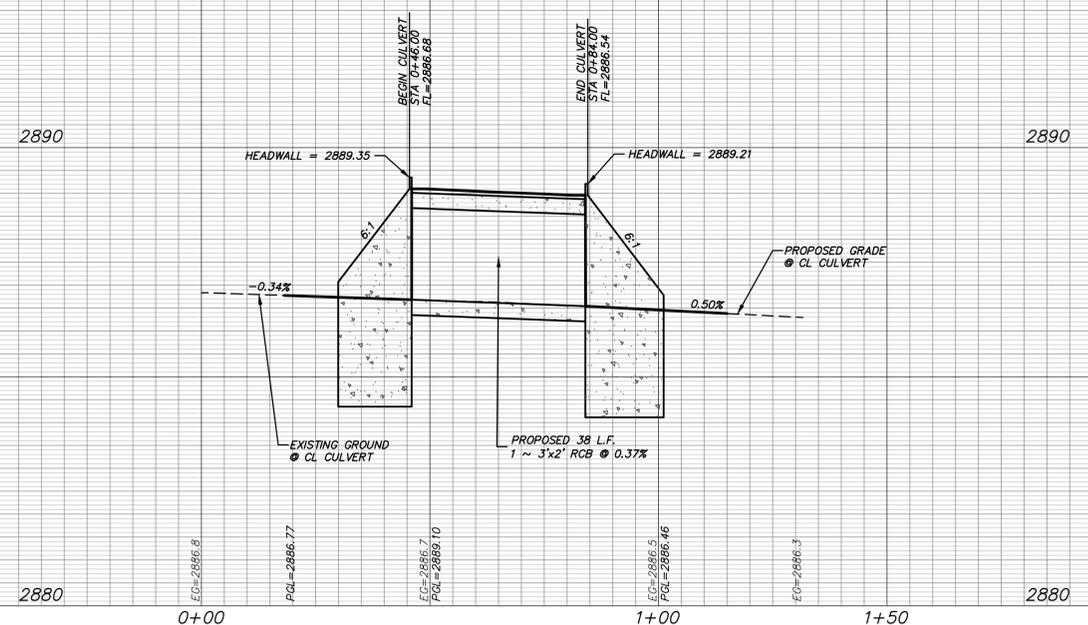


CULVERT AT STA 106+00

DRAINAGE AREA TO CULVERT
TOTAL AREA = 87.60 AC
TOTAL UNDEVELOPED RUNOFF:
Q₂₅ = 28.01 CFS
Q₅₀ = 34.93 CFS
Q₁₀₀ = 44.10 CFS
DRAINAGE CULVERTS DESIGNED FOR THE UNDEVELOPED 50-YEAR STORM EVENT.



PROFILE SCALE
HORIZ: 1" = 20'
VERT: 1" = 2'



FULL PATH: G:\projects\2021\0401\B001484\Drawings\0401\B001484\Culvert\Culvert Plan & Profile.dwg
 PLANNED BY: J. A. Beckler
 DRAWN BY: J. A. Beckler
 CHECKED BY: J. A. Beckler
 PLOTTED BY: J. A. Beckler
 PLOTTED DT: 04/30/21

NO.	REVISION	BY	DATE

MNM
DESIGNED
MNM
DRAWN
BIB
CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
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SEWER NUMBER N/A	DOE NUMBER N/A

DUNAWAY
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Tel: 432.699.4889 • Fax: 432.682.7722
[TX REG. F-1114]

MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
CULVERT PLAN & PROFILE	31



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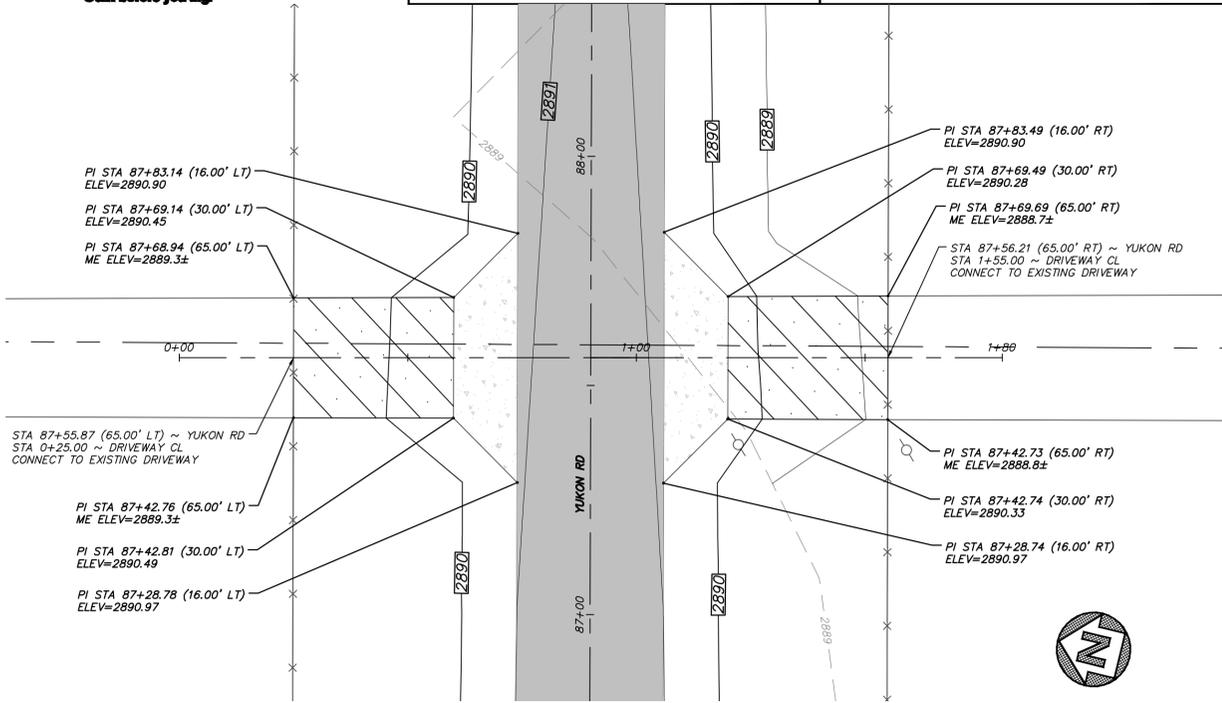
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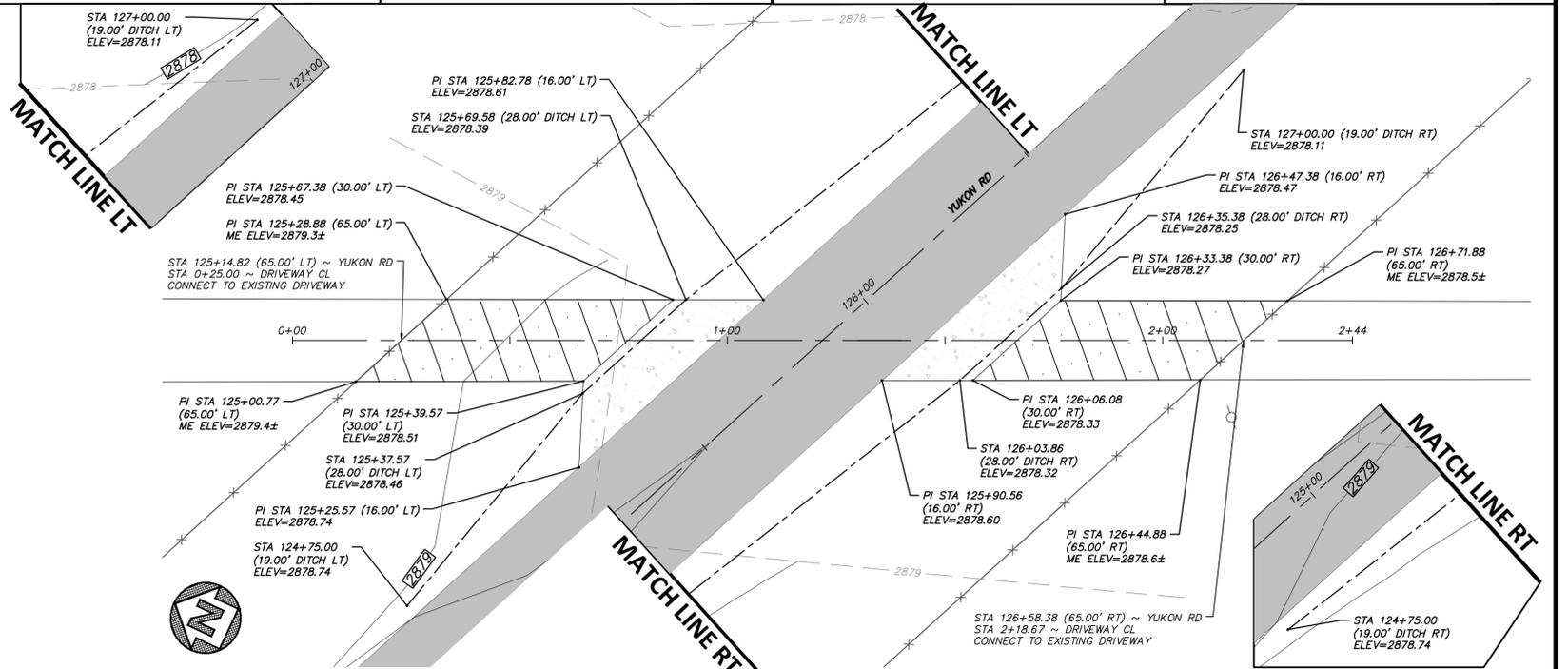
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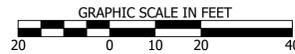
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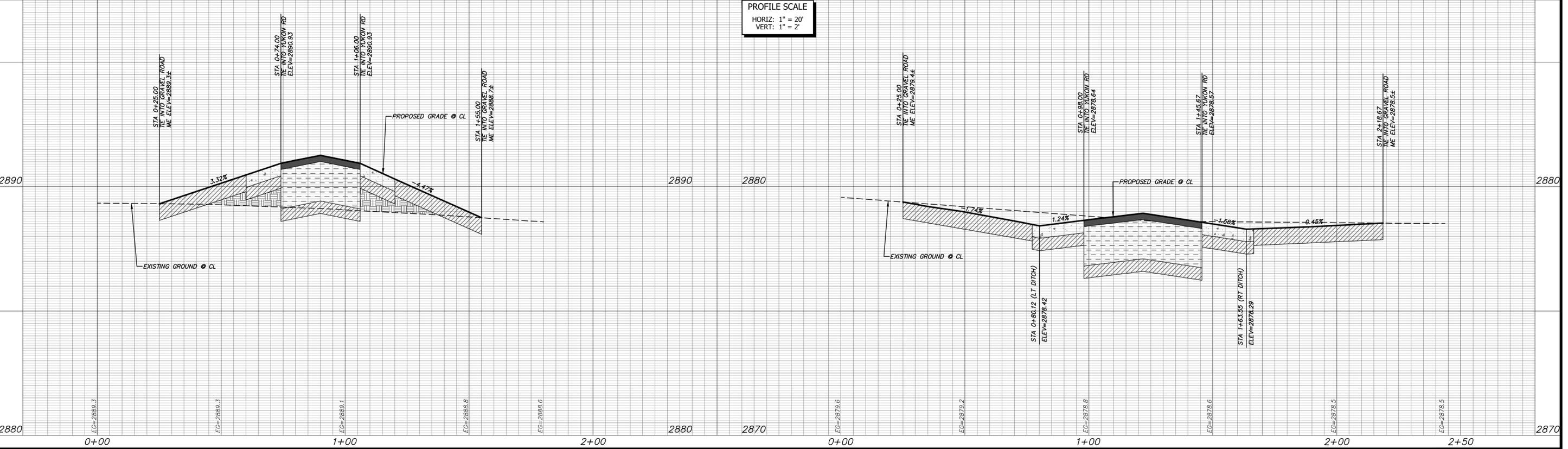
DRIVEWAY AT STA 87+56.03



DRIVEWAY AT STA 125+86.62



PROFILE SCALE
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 VERT: 1" = 2'



FULL PATH: C:\ProgramData\Autodesk\LTWorkset\2021\Drawings\171\171-00001.dwg
 PLOT DATE: 04/30/21 10:00 AM
 PLOT BY: J. BECKER
 PLOT SCALE: 1/8" = 1'-0"

NO.	REVISION	BY	DATE

MIDLAND COUNTY
 MIDLAND, TEXAS

SCALE	DATE
HORIZ 1" = 20'	APRIL 2021
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WATER NUMBER N/A	COUNTY NUMBER N/A
SEWER NUMBER N/A	DOE NUMBER N/A

DUNAWAY
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 Tel: 432.699.4889 • Fax: 432.682.7722
 (TX REG. F-1114)

STATE OF TEXAS
 JENNIFER L. BECKER
 102960
 PROFESSIONAL ENGINEER
 04/30/21

MIDLAND COUNTY
 YUKON ROAD
DRIVEWAY PLAN AND PROFILE 2 OF 3

DA PROJECT
B001484.017

SHEET
33



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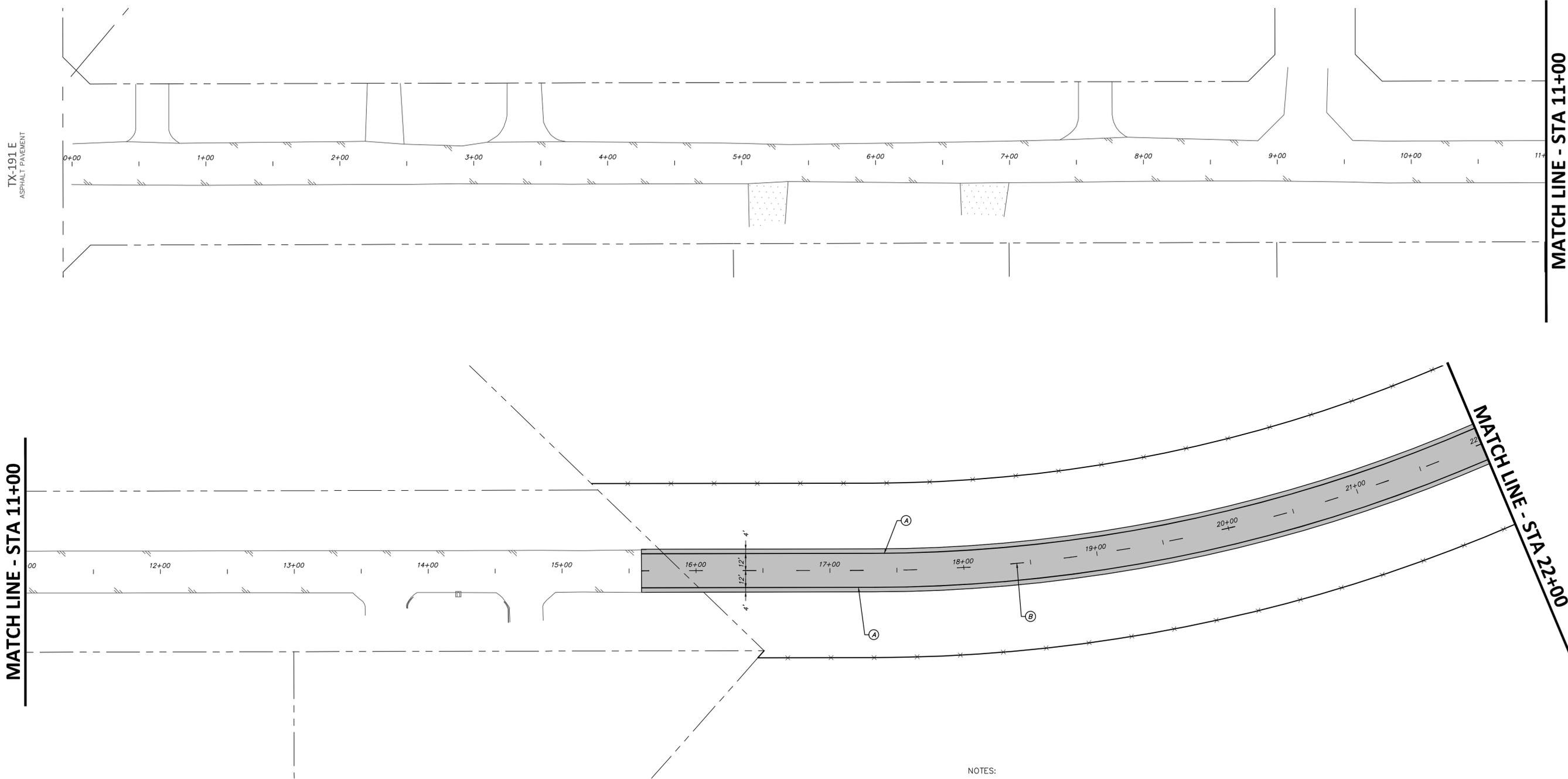
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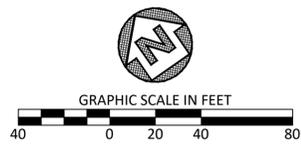
MATCH LINE - STA 11+00

MATCH LINE - STA 11+00

MATCH LINE - STA 22+00

- NOTES:**
- INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TEXAS MUTCD AND TxDOT STANDARDS AND DETAILS. DETAILS INCLUDE BUT ARE NOT LIMITED TO:
PM(1)-20
SMD(GEN)-08
SMD(SLIP-1)-08
SMD(SLIP-2)-08
TSR(4)-13
 - PAVEMENT MARKINGS TO FOLLOW ROADWAY ALIGNMENT STATIONING.
 - ALL PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

PAVEMENT MARKINGS	
(A)	REFL PAV MRK (W) 4" (SOLID)
(B)	REFL PAV MRK (Y) 4" (BRK)
(C)	REFL PAV MRK (Y) 4" DOUBLE (SOLID)
●	INSTALL ROADSIDE SIGN



FILE NAME: I:\PROJECTS\PAVEMENT MARKINGS & SIGNAGE.dwg
PLOTTER: HP DesignJet 5000
PLOT DATE: 04/30/21

NO.	REVISION	BY	DATE	CHECKED

MIDLAND COUNTY MIDLAND, TEXAS	SCALE	DATE
	HORIZ 1" = 40'	APRIL 2021
DESIGNED JAS	VERT N/A	COUNTY NUMBER N/A
DRAWN BIB	WATER NUMBER N/A	DOE NUMBER N/A
CHECKED	SEWER NUMBER N/A	

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Tel: 432.699.4889 • Fax: 432.682.7722
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MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
SIGNAGE AND PAVEMENT MARKING PLAN STA 0+00 TO STA 22+00	35



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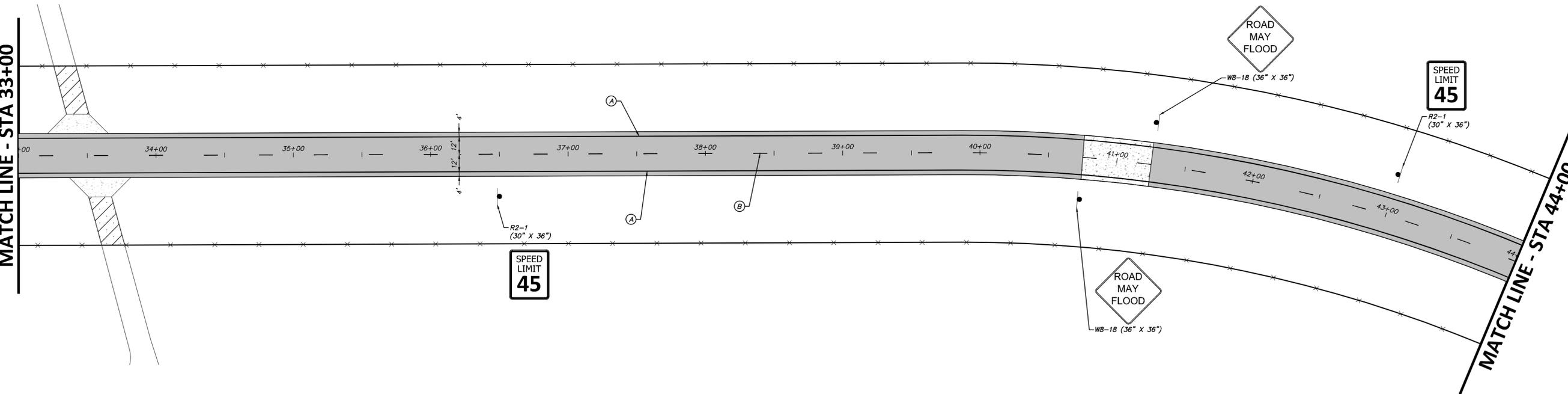
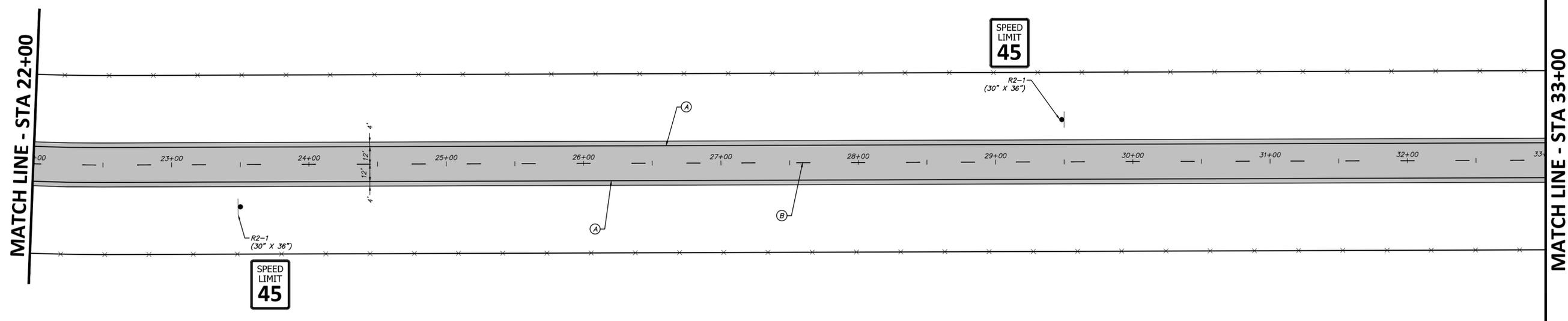
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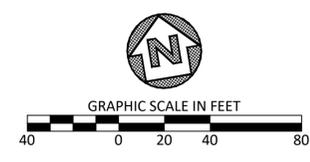
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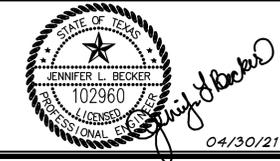
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NO.	REVISION	BY	DATE	CHECKED

JAS DESIGNED	MIDLAND COUNTY MIDLAND, TEXAS	SCALE HORIZ 1" = 40'	DATE APRIL 2021
JAS DRAWN		VERT 1" = N/A	COUNTY NUMBER N/A
BIB CHECKED		WATER NUMBER N/A	DOE NUMBER N/A
		SEWER NUMBER N/A	

DUNAWAY
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Tel: 432.699.4889 • Fax: 432.682.7722
[TX REG. F-1114]



MIDLAND COUNTY		DA PROJECT B001484.017
YUKON ROAD		SHEET
SIGNAGE AND PAVEMENT MARKING PLAN STA 22+00 TO STA 44+00		36

FILE NAME: I:\PROJECTS\PAVEMENT MARKINGS & SIGNAGE.dwg
 PLOTTED BY: JAS
 PLOTTED DATE: 04/30/21



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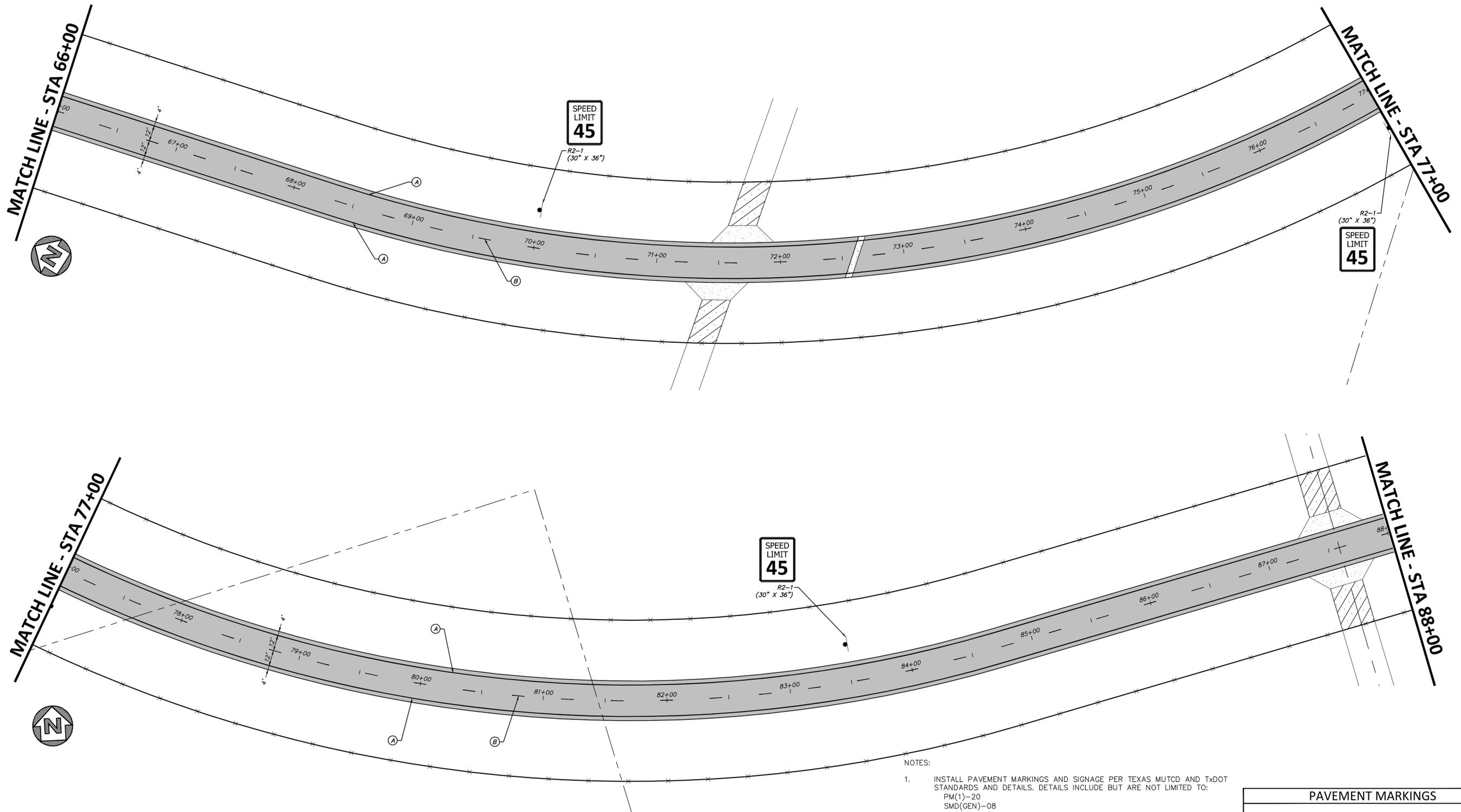
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SITE BENCHMARK:

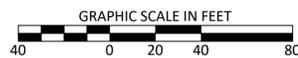
SET 5/8" IRON ROD WITH RED CAP STAMPED "DUNAWAY CONTROL" NEAR THE INTERIOR ELL CORNER OF A WELL PAD, APPROX. 765' WEST OF FM 1788 AND APPROX. 3400' NORTH OF U.S. HWY 80. NAD83 GRID COORDINATES: N: 10,370,711.46' E: 1,709,814.32' NAVD88 ELEVATION = 2889.37'



NOTES:

- INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TEXAS MUTCD AND TxDOT STANDARDS AND DETAILS. DETAILS INCLUDE BUT ARE NOT LIMITED TO:
PM(1)-20
SMD(GEN)-08
SMD(SLIP-1)-08
SMD(SLIP-2)-08
TSR(4)-13
- PAVEMENT MARKINGS TO FOLLOW ROADWAY ALIGNMENT STATIONING.
- ALL PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

PAVEMENT MARKINGS	
(A)	REFL PAV MRK (W) 4" (SOLID)
(B)	REFL PAV MRK (Y) 4" (BRK)
(C)	REFL PAV MRK (Y) 4" DOUBLE (SOLID)
●	INSTALL ROADSIDE SIGN



NO.	REVISION	BY	DATE	CHECKED

JAS
DESIGNED
JAS
DRAWN
BIB
CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	DATE
HORIZ 1" = 40'	APRIL 2021
VERT 1" = N/A	
WATER NUMBER N/A	COUNTY NUMBER N/A
SEWER NUMBER N/A	DOE NUMBER N/A

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[TX REG. F-1114]



MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
SIGNAGE AND PAVEMENT MARKING PLAN STA 66+00 TO STA 88+00	38

FILENAME: I:\PROJECTS\PAVEMENT MARKING & SIGNAGE.dwg
 PLOTTED BY: JAS
 PLOTTED DATE: 04/30/21



WARNING TO CONTRACTOR:

CALL 811 (TEXAS 811) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

CRITICAL:

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION.

UTILITY RELOCATION NOTE:

IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE UTILITIES, ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY/OR ALL SUCH UTILITIES (NO SPECIAL PAY).

STATE PLANE COORDINATE NOTE:

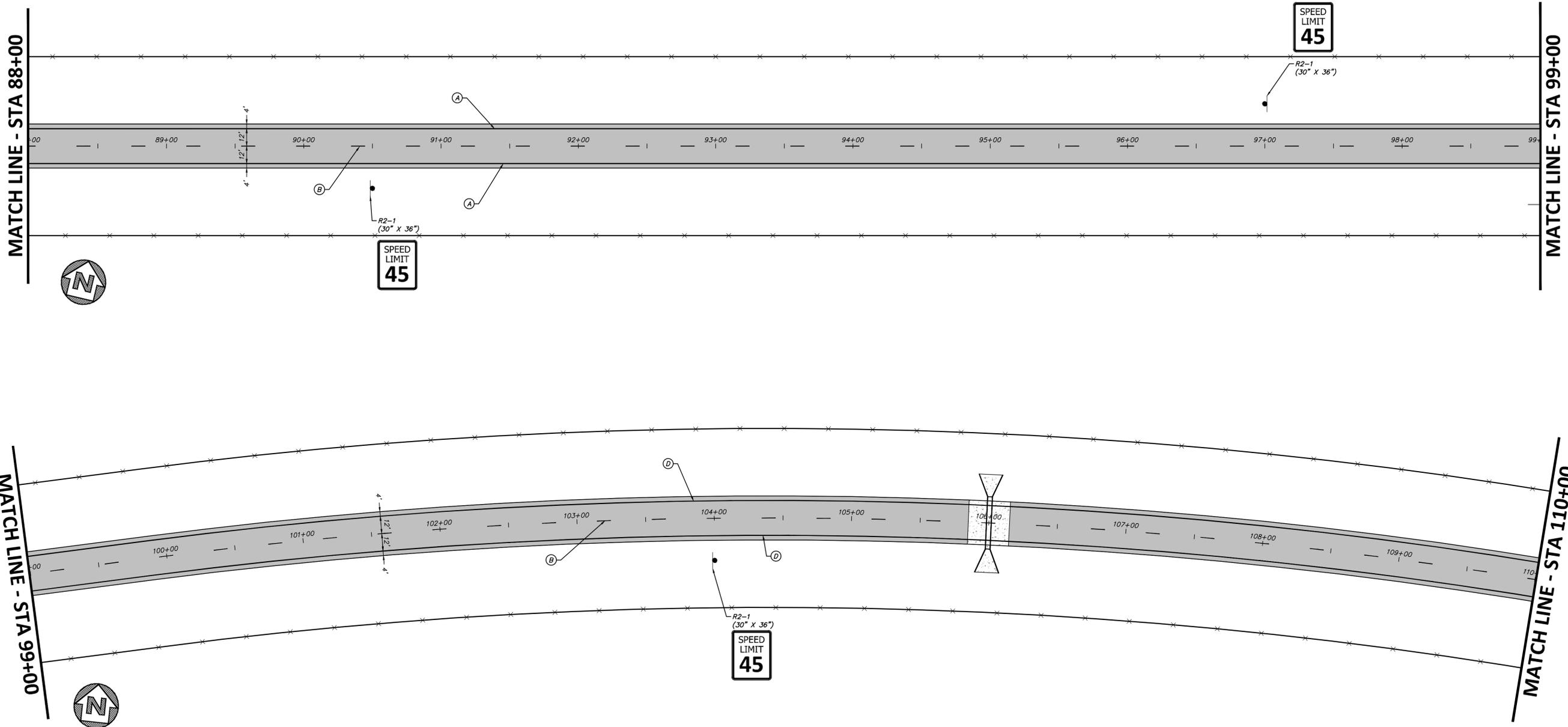
THE BASIS OF BEARINGS SHOWN HEREON IS THE TEXAS COORDINATE SYSTEM OF 1983, CENTRAL ZONE 4203, AND BY GPS OBSERVATIONS MADE IN THE FIELD. COORDINATE VALUES ARE NAD83 GRID. ALL DISTANCES ARE SURFACE VALUES. A COMBINED GRID FACTOR OF 0.999899 WAS USED FOR THIS PROJECT.

OFF-SITE BENCHMARK INFORMATION:

FOUND NGS MONUMENT "Z 1451" BENCHMARK DISC SET IN THE SOUTHEAST ABUTMENT OF A BRIDGE OVER U.S. HWY. 80, 148.9FT NORTHEAST OF THE NEAR RAIL, 9.3FT EAST-SOUTHEAST OF A UTILITY POLE. PUBLISHED ELEVATION: 2875.28' NAVD88 DATUM

SITE BENCHMARK:

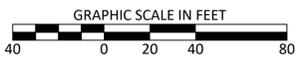
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SPEED LIMIT 45

SPEED LIMIT 45

SPEED LIMIT 45



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●	INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE	CHECKED

JAS DESIGNED	MIDLAND COUNTY MIDLAND, TEXAS	SCALE HORIZ 1" = 40'	DATE APRIL 2021
JAS DRAWN		VERT 1" = N/A	
BIB CHECKED		WATER NUMBER N/A	COUNTY NUMBER N/A
		SEWER NUMBER N/A	DOE NUMBER N/A

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MIDLAND COUNTY	DA PROJECT B001484.017
YUKON ROAD	SHEET
SIGNAGE AND PAVEMENT MARKING PLAN STA 88+00 TO STA 110+00	39

FILENAME: I:\PROJECTS\PAVEMENT MARKINGS & SIGNAGE.dwg
 PLOTTED BY: JAS
 PLOTTED DATE: 04/30/21



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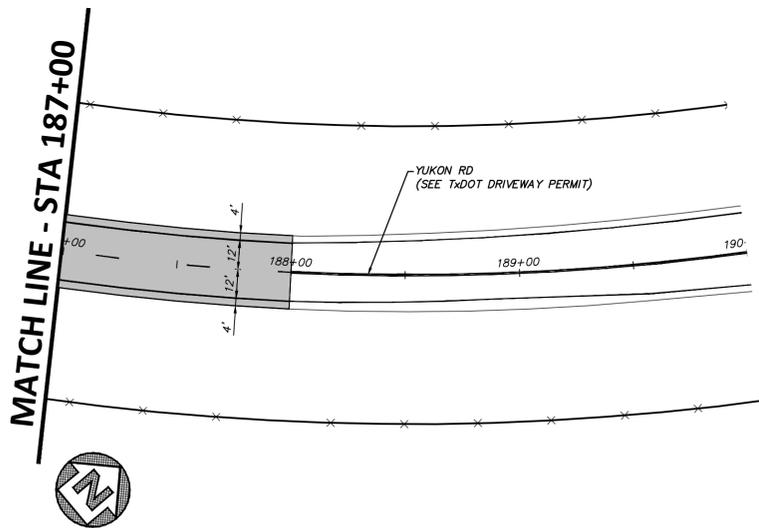
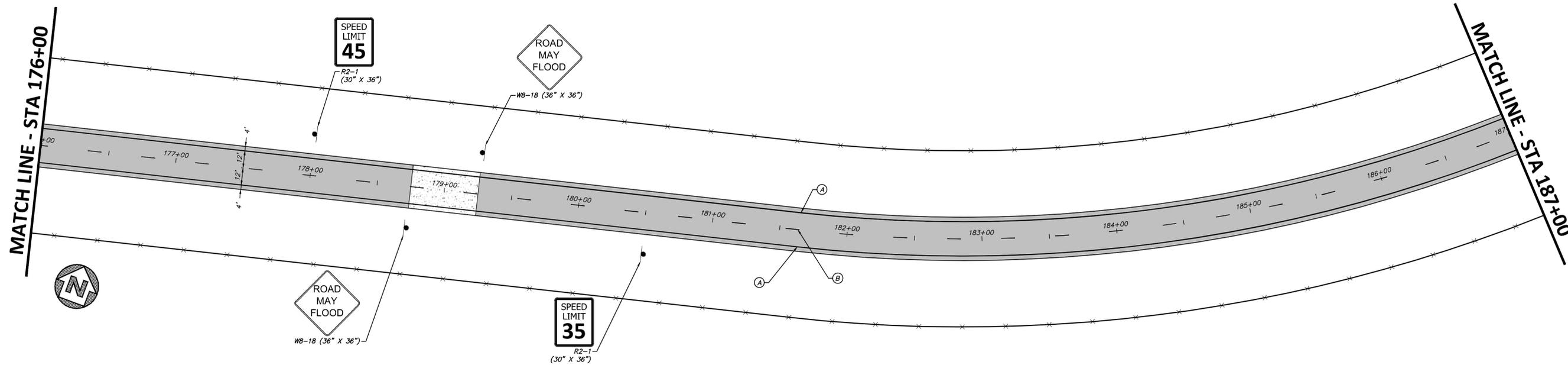
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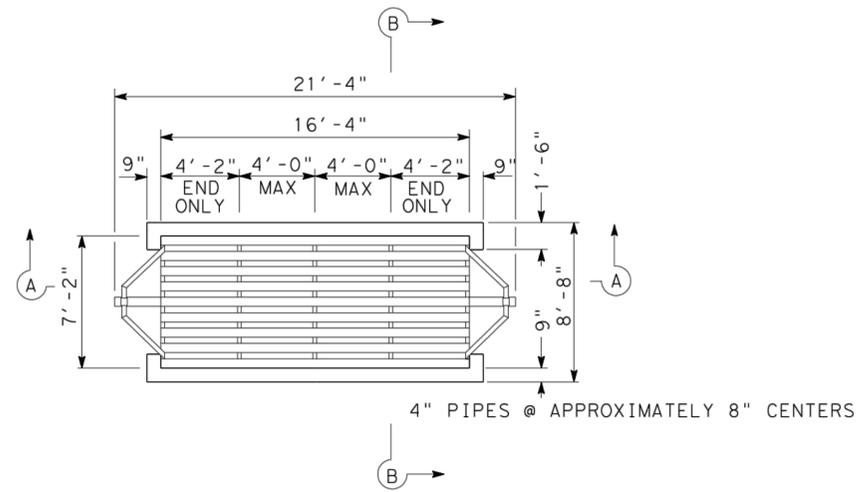
DUNAWAY

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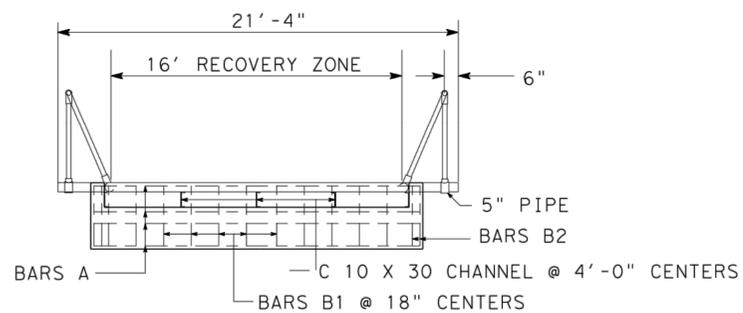


MIDLAND COUNTY		DA PROJECT B001484.017
YUKON ROAD		SHEET
SIGNAGE AND PAVEMENT MARKING PLAN STA 176+00 TO STA 198+00		43

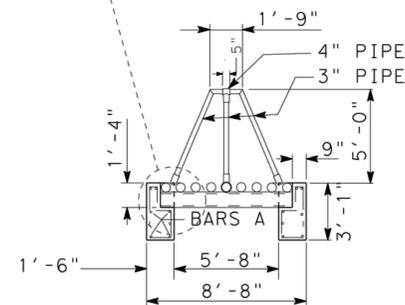
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 PLOTTED BY: jbecker
 PLOTTED DATE: 04/30/21 10:21:18 AM



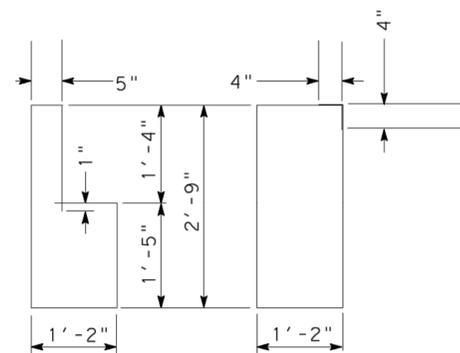
PLAN VIEW



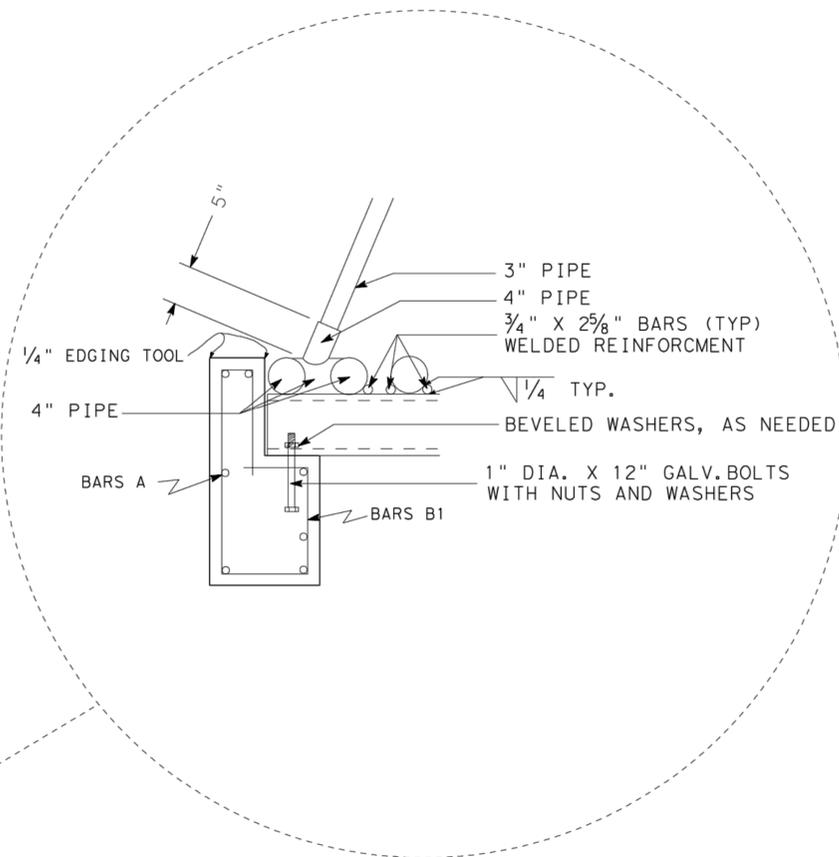
SECTION A-A



SECTION B-B



BARS B1 BARS B2



GENERAL NOTES:

QUANTITIES SHOWN ARE FOR CONTRACTORS INFORMATION ONLY.

ALL DIMENSIONS RELATION TO REINFORCING STEEL ARE TO THE CENTERLINE OF BARS.

PROVIDE PIPE IN CONVENIENT LENGTHS (10'-0" MIN.) AND BUTT WELD IN ACCORDANCE WITH ITEM 448. AS AN ALTERNATIVE, PROVIDE OPTIONAL 1/2" JOINT AS SHOWN.

IF ROCK IS ENCOUNTERED, DEPTH OF FOUNDATION MAY BE VARIED AS DIRECTED. PROVIDE NEW PIPE CONFORMING TO ASTM A501 OR ASTM A53 TYPES E OR S, GRADE B, STANDARD WEIGHT.

HOT DIP GALVANIZE CATTLE GUARD IN ACCORDANCE WITH ASTM A123 AND A153.

BILL OF MATERIALS

NO.	DESCRIPTION	SIZE	LENGTH
1	STEEL PIPE	4"	21'-4"
9	STEEL PIPE	4"	16'-3"
2	STEEL PIPE	3"	12'-7"
2	STEEL PIPE	3"	5'-0"
4	STEEL PIPE	6"	4"
10	STEEL PIPE	4"	5"
2	STEEL PIPE	5"	5"
100	RODS	3/4"	2 7/8"
5	CHANNELS	C10 X 30	7'-1"
22	REINF. STEEL (BARS B1)	#3	8'-0"
8	REINF. STEEL (BARS B2)	#3	8'-6"
14	REINF. STEEL (BARS A)	#5	17'-6"
10	BOLTS	1" DIA.	12"
	CLASS A CONCRETE		4.81 CY



CATTLE GUARD DETAILS (16' RECOVERY ZONE)

AUSTIN DISTRICT STANDARD

© TXDOT 2002	DIST	FED REG	FEDERAL AID PROJECT	SHEET
REVISIONS	AUS	6		
3/03 District Update	COUNTY	CONTROL	JOB	HIGHWAY
9/04 2004 Update				