

REV	DATE	BY	DESCRIPTION
0	01/11/08		APPROVED FOR CONST
1	02/21/08		INDICATED FOR CONST
2	03/25/08		INDICATED FOR CONST

RELEASED FOR
CONSTRICTION
MAR 29 2008
One Star Infrastructure

REV	DATE	DRAWING SHEET	TITLE
0	01/11/08	PP1	PLUM CREEK MITIGATION PARK - MITIGATION FEATURES
2	03/25/08	PP2	PLUM CREEK MITIGATION PARK - INDEX OF SHEETS
1	02/27/08	PP3	PLUM CREEK MITIGATION PARK - GENERAL NOTES
0	01/11/08	PP4	NOT USED
0	01/11/08	PP5	PLUM CREEK MITIGATION PARK - ACCESS ROAD AND TRAILS
0	01/11/08	PP6	PLUM CREEK MITIGATION PARK - KEYMAP
2	03/25/08	PP7	PLUM CREEK MITIGATION PARK - ACCESS ROAD AND TRAILS - TYPICAL SECTIONS
1	02/27/08	PP8	PLUM CREEK MITIGATION PARK - POND DETAILS & BERM DETAILS
0	01/11/08	PP9	NOT USED
0	01/11/08	PP10	PLUM CREEK MITIGATION PARK - EXISTING CONDITIONS
0	01/11/08	PP11	PLUM CREEK MITIGATION PARK - EXISTING CONDITIONS
0	01/11/08	PP12	PLUM CREEK MITIGATION PARK - EXISTING CONDITIONS
0	01/11/08	PP13	PLUM CREEK MITIGATION PARK - EXISTING CONDITIONS
0	01/11/08	PP14	PLUM CREEK MITIGATION PARK - EXISTING CONDITIONS
0	01/11/08	PP15	PLUM CREEK MITIGATION PARK - EXISTING CONDITIONS
0	01/11/08	PP16	HORIZONTAL ALIGNMENT DATA - ACCESS ROAD
0	01/11/08	PP17	HORIZONTAL ALIGNMENT DATA - ACCESS ROAD
0	01/11/08	PP18	HORIZONTAL ALIGNMENT DATA - TRAILS #1, #2 & #3
0	01/11/08	PP19	HORIZONTAL ALIGNMENT DATA - TRAILS #4 & #5
0	01/11/08	PP20	HORIZONTAL ALIGNMENT DATA - TRAILS #5, #6, #7 & #8
0	01/11/08	PP21	HORIZONTAL ALIGNMENT DATA - TRAILS #8 & #9
0	01/11/08	PP22	PROPOSED SITE
0	01/11/08	PP23	PROPOSED SITE
0	01/11/08	PP24	PROPOSED SITE
0	01/11/08	PP25	PROPOSED SITE
0	01/11/08	PP26	PROPOSED SITE
0	01/11/08	PP27	ACCESS ROAD AND TRAILS
0	01/11/08	PP28	ACCESS ROAD AND TRAILS
0	01/11/08	PP29	ACCESS ROAD AND TRAILS
1	02/27/08	PP30	ACCESS ROAD AND TRAILS
1	03/25/08	PP31	ACCESS ROAD AND TRAILS
0	01/11/08	PP32	ACCESS ROAD - INTERSECTION DETAILS
1	02/27/08	PP33	ACCESS ROAD - DP#2, DP#3 & EW#1
1	02/27/08	PP34	ACCESS ROAD - FSW#1A & FSW#1B
1	02/27/08	PP35	ACCESS ROAD - DP#1
1	02/27/08	PP36	ACCESS ROAD - EW#2A, EW#2B & DP#4
1	02/27/08	PP37	ACCESS ROAD - DP#5 & DP#6
1	02/27/08	PP38	ACCESS ROAD - DP#7, EW#3 & FSW#2A
1	02/27/08	PP39	ACCESS ROAD - DP#8, DP#9 & FSW#2B
1	02/27/08	PP40	ACCESS ROAD - EW#4A & EW#4B
1	02/27/08	PP41	ACCESS ROAD - MISCELLANEOUS DETAILS
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1	02/27/08	PP44	ACCESS ROAD - LOW LEVEL CROSSING #3
1	02/27/08	PP45	ACCESS ROAD - LOW LEVEL CROSSING #4
0	01/11/08	PP46	ACCESS ROAD - LOW LEVEL CROSSING #5
0	01/11/08	PP47	ACCESS ROAD - LOW LEVEL CROSSING #6
1	02/27/08	PP48	TRAIL LOW LEVEL CROSSINGS - #1, #2 & #3
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1	02/27/08	PP50	TRAIL LOW LEVEL CROSSINGS - #7, #8, #9, #10, #12 & #13
1	02/27/08	PP51	TRAIL LOW LEVEL CROSSING - #11
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1	02/27/08	PP53	SWP
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1	02/27/08	PP55	SWP
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0	03/25/08	PP57	ILLUMINATION PLANS
1	03/25/08	PP58	SIGNING AND PAVEMENT MARKINGS - US183 / PARK ACCESS ROAD
0	02/27/08	PP59	SIGNING AND PAVEMENT MARKINGS - PARKING LOT
1	03/25/08	PP60	SIGNING AND PAVEMENT MARKINGS - SIGN SUMMARY AND DETAILS
1	03/25/08	PP61	PARKING LOT DETAILS
1	02/27/08	PP62	SIDEWALK AND RESTROOM PAD DETAILS
0	03/25/08	PP63	PLAN AND PROFILES - PARKING LOT ACCESS ROAD

NOTE:
* INDICATES SHEETS WHICH ARE REVISED
AND INCLUDED IN THIS SUBMITTAL.

STATE OF TEXAS
BRIAN W. DOBSON
90526
PROFESSIONAL ENGINEER

TECHNICAL
TEAM LEADER
DRAWING REVISIONS

SECTION 5, SECTION 16
PLUM CREEK MITIGATION PARK
INDEX OF SHEETS

SCALE: NONE

SHEET 1 OF 1 SHEETS

REVISION NO.	DATE	DESCRIPTION
1	01-11-08	DATE
2	01-11-08	DATE
3	01-11-08	DATE
4	01-11-08	DATE
5	01-11-08	DATE
6	01-11-08	DATE

STATE DISTRICT COUNTY
TX AUS
JOB HIGHWAY
SH13

GENERAL NOTES

PLUM CREEK MITIGATION SITE DESIGN IS BASED ON USAGE PERMIT #199600228. FOR ADDITIONAL INFORMATION SEE THE USAGE PERMIT DOCUMENT.

COORDINATES AND POND ELEVATIONS PROVIDED FOR DEEP PONDS, EMERGENT WETLANDS AND FORESTED/SCRUB WETLANDS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED IN ORDER TO ACCOMMODATE EXISTING FEATURES. HOWEVER, SIGNIFICANT MODIFICATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER.

EXCAVATED AREAS NEED NOT BE UNIFORM IN LEVEL. MICRO TOPOGRAPHY IN WETLANDS IS BENEFICIAL IN VEGETATION ESTABLISHMENT.

PLANTED RIPARIAN WOODLANDS (NON-WETLAND)

TREES SHALL BE PLANTED USING AN APPROXIMATE 9x11 FOOT SPACING (APPROXIMATELY 444 TREES PER ACRE). NATIVE WOODY SPECIES FOR POTENTIAL USE IN THE RIPARIAN SITES:

- HIGHLY DESIRABLE TREES
 - PECAN (CARYA ILLINOENSIS)
 - PERSIMMON (DIOSPYROS VIRGINIANA)
 - SYCAMORE (PLATANUS OCCIDENTALIS)
 - BLACK CHERRY (PRUNUS SEROTINA)
 - OAK SPP. (QUERCUS SPP.)
 - WESTERN SOAPBERRY (SAPINDUS DRUMMONDII)
 - AMERICAN ELM (ULMUS AMERICANUS)
 - SUGAR HACKBERRY
- DIVERSITY TREES
 - BOXELDER (ACER NEGUNDO)
 - GUM BUMELIA (BUMELIA LANUGINOSA)
 - GREEN ASH (FRAXINUS PENNSYLVANICA)
 - BLACK WILLOW (SALIX NIGRA)
 - ELM SPP. (ULMUS SPP.)
- UNDERSTORY (SMALL TREES/SHRUBS)
 - BUTTONBUSH
 - EASTERN REDBUD
 - MEXICAN PLUM
 - CAROLINA BUCKTHORN
 - PRAIRIE FLAMELEAF SUMAC

- ADDITIONAL SPECIES MAY BE ADDED TO THIS LIST, BASED ON AVAILABILITY. VARIOUS SPECIES OF BARE ROOT, POTTED OR BALL ROOT SEEDLINGS WILL BE PLANTED, DEPENDING ON AVAILABILITY. PLANTING SHALL BE DONE BY MACHINE OR BY HAND AS NECESSARY TO ALLOW FOR MORE FLEXIBILITY IN SPECIES PLACEMENT. PLANTING WILL WHERE PRACTICAL BE DONE IN JANUARY OR FEBRUARY WHEN THE SEEDLINGS ARE DORMANT FOR BETTER ESTABLISHMENT AND SURVIVABILITY. SEEDBED PREPARATION SHALL BE ACCOMPLISHED USING AN INDIVIDUAL PLANT APPLICATION OF REMEDY OR GRAZON P-D HERBICIDE TREATMENT OF EXISTING WEEDS AND SHRUBS IN THE YEAR BEFORE THE PLANNED AREAS PLACE A BAND OF GLYPHOSATE OR GRASS ONY BENZYLIDE MAY BE OTHER EDUCATORS PLANTING ROWS IN ORDER TO SUPPRESS BERMUDA GRASS AND OTHER COMPETITORS IMMEDIATELY PRIOR TO PLANTING THE AREA WILL BE SPRAYED WITH A FACTOR MOUNTED MOWER TO FACILITATE ACCESS AND PLANTING. OTHER SEEDBED PREPARATION TECHNIQUES MAY BE UTILIZED AT THE DISCRETION OF THE CONTRACTOR, AND AS APPROVED BY TXDOT.

NO SUPPLEMENTAL IRRIGATION OR FERTILIZATION IS REQUIRED FOR THE AREA AFTER PLANTING IS COMPLETE.

COMPENSATORY OVER-PLANTING OF TREES IS INTENDED TO ADDRESS MORTALITY DUE TO BROUGHT AND OTHER ADVERSE CONDITIONS. AT LEAST TWO SESSIONS OF HERBICIDE CONTROL BETWEEN ROWS OF PLANTED TREES (PROBABLY 18 MONTHS) SHALL BE PLANNED EACH YEAR DURING THE SUMMER TO PREVENT GRASS AND WEEDS FROM CHOKING OUT THE WOODY PLANTINGS. ADDITIONALLY, THE SITE SHALL BE EVALUATED EACH YEAR AS TO THE NEED FOR INVASIVE WOODY SPECIES CONTROL OR CHINESE TALLOW TREES (SAPINDUS SEBIFERUM) AND OTHER NON-NATIVE OR UNDESIRABLE SPECIES. THIS INVASIVE SPECIES CONTROL COULD BE ACCOMPLISHED THROUGH THE INDIVIDUAL PLANTING APPLICATION OF REMEDY OR GRAZON P-D. NO HERBIVORE CONTROL IS PROPOSED AT PRESENT BUT IT WILL BE ADDRESSED IF IT BECOMES AN ISSUE.

EXISTING RIPARIAN WOODLAND HABITAT WILL BE PRESERVED.

EMERGENT WETLANDS

EMERGENT WETLANDS WILL BE EXCAVATED TO A DEPTH NECESSARY TO CREATE A SHALLOW BASIN, APPROXIMATELY 18 INCHES DEEP.

IF PRACTICAL, THE EMERGENT WETLANDS SHALL BE PLANTED USING THE SEED BANK METHOD. A THICK LAYER OF SOIL WILL BE REMOVED FROM THE EMERGENT WETLANDS OF SH130 (LOCATIONS TO BE APPROVED IN ADVANCE BY TXDOT) AND IN A TIMELY MANNER THIS SOIL WILL BE SPREAD IN THE EMERGENT WETLANDS OF THE PLUM CREEK. OTHERWISE THE EMERGENT WETLANDS WILL BE PLANNED WITH AN APPROVED COMMERCIALY AVAILABLE SEED STOCK. DESIRABLE SPECIES INCLUDE:

- SMARTWEED (POLYGONUM SPP.)
- DUCKWEED (LEMNA SPP.)
- SWITCHGRASS (Panicum VIRGATUM)

NO SUPPLEMENTAL IRRIGATION OR FERTILIZATION IS PLANNED FOR THIS AREA AFTER PLANTING IS COMPLETE.

THESE AREAS SHALL BE EVALUATED DURING THE FIRST GROWING SEASON AFTER PLANTING TO SEE THAT THEY MEET THE WETLAND VEGETATION CRITERIA AS OUTLINED IN THE 1987 COPY OF ENGINEERS WETLAND DELINEATION MANUAL FOR WETLANDS. IN ADDITION THE SITE SHALL BE EVALUATED EACH YEAR AS TO THE NEED FOR CONTROL OF INVASIVE NON-NATIVE OR UNDESIRABLE SPECIES. SPOT TREATMENT OF UNDESIRABLE SPECIES WILL BE ACCOMPLISHED WITH APPROPRIATE HERBICIDES IF NECESSARY. SUPPLEMENTAL PLANTINGS OF COMMERCIALY AVAILABLE SPECIES WILL BE ACCOMPLISHED AS NECESSARY, BASED ON THE AVAILABILITY AND SUCCESS OF SEED BANK PLANTING.

FORESTED/SCRUB WETLANDS

EMERGENT WETLANDS WILL BE EXCAVATED TO A DEPTH NECESSARY TO CREATE A SHALLOW BASIN, APPROXIMATELY 18 INCHES DEEP.

TREES AND SHRUBS SHALL BE PLANTED USING AN APPROXIMATE 9x11 FOOT SPACING (APPROXIMATELY 384 TREES AND 60 SHRUBS PER ACRE). NATIVE WOODY TREES AND SHRUBS (WITH AN INDICATOR STATUS OF FACT OR BETTER) SHALL BE USED IN THE FORESTED/SCRUB WETLAND SITES. NATIVE WOODY SPECIES FOR POTENTIAL USE IN THE FORESTED/SCRUB WETLANDS INCLUDE:

- HIGHLY DESIRABLE TREES
 - WATER HICKORY (CARYA AQUATICA)
 - BALD CYPRESS (TAXODIUM DISTICHUM)
- DIVERSITY TREES
 - RIVER BIRCH (BETULA NIGRA)
 - BLACK WILLOW (SALIX NIGRA)
- UNDERSTORY (CEPHALANTHUS OCCIDENTALIS)

ADDITIONAL SPECIES MAY BE ADDED TO THIS LIST, BASED ON AVAILABILITY. VARIOUS SPECIES OF BARE ROOT, POTTED OR BALL ROOT SEEDLINGS WILL BE PLANTED, DEPENDING ON AVAILABILITY. PLANTING SHALL BE DONE BY MACHINE OR BY HAND AS NECESSARY TO ALLOW FOR MORE FLEXIBILITY IN SPECIES PLACEMENT. PLANTING WILL WHERE PRACTICAL BE DONE IN JANUARY OR FEBRUARY WHEN THE SEEDLINGS ARE DORMANT FOR BETTER ESTABLISHMENT AND SURVIVABILITY.

NO SUPPLEMENTAL IRRIGATION OR FERTILIZATION IS REQUIRED FOR THE AREA AFTER PLANTING IS COMPLETE.

DEEPWATER PONDS

DEEPWATER PONDS WILL BE EXCAVATED TO A DEPTH NECESSARY TO CREATE A PONDING DEPTH OF 2 TO 5 FEET. NO VEGETATION PLANTING SHALL OCCUR WITHIN THE DEEPWATER AREAS.

TREES SHALL BE PLANTED AROUND THE PERIMETERS OF THOSE DEEPWATER PONDS NOT SURROUNDED BY PLANTED RIPARIAN WOODLANDS. TREES SHALL BE PLANTED AT APPROXIMATELY 200 TREES PER ACRE. NATIVE WOODY SPECIES FOR POTENTIAL USE IN THE DEEPWATER SITES:

- HIGHLY DESIRABLE TREES
 - PECAN (CARYA ILLINOENSIS)
 - OAK SPP. (QUERCUS SPP.)
 - BALD CYPRESS (TAXODIUM DISTICHUM)

STREAM BEDS

STREAMBED/TEMPORARY INUNDATED FLOODPLAIN CHANNELS SHALL CONSIST OF HYDROLOGIC AND VEGETATIVE ENHANCEMENTS WITH BERMS CONSTRUCTED ACROSS THEM TO SLOW AND SPREAD RUNOFF AND CREATE AREAS WHERE WATER WILL POOL.

TREES SHALL BE PLANTED ALONG THE STREAMBED AT APPROXIMATELY 200 TREES PER ACRE. NATIVE WOODY SPECIES FOR POTENTIAL USE IN THE DEEPWATER SITES

- HIGHLY DESIRABLE TREES
 - PECAN (CARYA ILLINOENSIS)
 - OAK SPP. (QUERCUS SPP.)
 - BALD CYPRESS (TAXODIUM DISTICHUM)

ACCESS ROAD

THE ACCESS ROAD SHALL BE 10-FT WIDE, UNLESS NOTED OTHERWISE IN THE PLANS AND CONSTRUCTED USING A FLEX BASE THICKNESS OF 12 INCHES OF CRUSHED LIMESTONE BASED ON TXDOT SPECIFICATION ITEM 246 TYPE A, OR BETTER

VERTICAL PROFILE OF THE ACCESS ROAD SHALL FOLLOW THE EXISTING CONTOURS OF THE LAND, UNLESS NOTED OTHERWISE IN THE PLANS. HOWEVER, THE MAXIMUM VERTICAL GRADE OF THE ACCESS ROAD SHALL BE 15%. ACCESS ROAD PROFILES SHOULD NOT HINDER THE HYDROLOGY OF THE SITE, WITH THE EXCEPTION OF WHEN THE ACCESS ROAD IS LOCATED WITHIN THE 100-FT BUFFER.

TRAILS

TRAILS SHALL BE COMPOSED OF 6 INCHES THICK SMOOTH-ROLLED COMPACTED GRASS SEED. TRAIL WIDTHS SHALL BE 6-FT, SUBJECT TO THE APPROVAL BY TXDOT. THE SMOOTH ROLLED COMPACTED TRAIL NEED NOT BE UTILIZED IN ESTABLISHED VEGETATIVE AREAS SUCH AS THE PRESERVED RIPARIAN WOODLANDS.

THE HORIZONTAL ALIGNMENT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. AS REQUIRED, THE TRAIL ALIGNMENT MAY BE FIELD ADJUSTED IN ORDER TO ACCOMMODATE EXISTING FEATURES. HOWEVER, SIGNIFICANT REVISIONS SHALL BE APPROVED BY THE ENGINEER.

VERTICAL PROFILE OF THE TRAILS SHALL FOLLOW THE CONTOURS OF THE LAND. TRAIL PROFILES SHOULD NOT HINDER THE HYDROLOGY OF THE SITE, WITH THE EXCEPTION OF WHEN THE TRAIL IS LOCATED WITHIN THE 100-FT BUFFER.

GENERAL

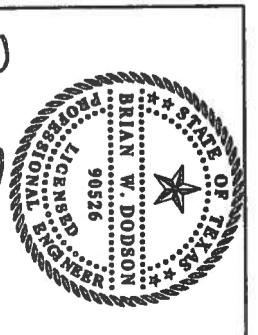
ALL RCP PIPES SHALL BE CLASS III UNLESS OTHERWISE NOTED.
ALL RCP PIPES SHALL BE FURNISHED AND INSTALLED PER TXDOT STANDARD SPECIFICATION ITEM 464.

LONG-TERM OPERATION AND MANAGEMENT

THE MITIGATION AREA LONG TERM OPERATION AND MANAGEMENT WILL BE PERFORMED AS DESCRIBED IN THE SH 130 MITIGATION SITE MANAGEMENT PLAN, WHICH IS CONSISTENT WITH THE TEXAS PARKS AND WILDLIFE DEPARTMENT'S MANAGEMENT PLANS FOR ITS WILDLIFE MANAGEMENT AREAS, AND WILL AT A MINIMUM COMPLY WITH THE FOLLOWING REQUIREMENTS:

- THE MITIGATION AREA SHALL NOT BE DISTURBED, EXCEPT BY THOSE ACTIVITIES THAT WOULD NOT ADVERSELY AFFECT THE INTENDED EXTENT, CONDITION, AND FUNCTION OF THE MITIGATION AREAS.
- LIVESTOCK GRAZING, MOWING AND SIMILAR ACTIVITIES ARE NOT ALLOWED, EXCEPT FOR LIMITED MOWING CONFINED TO A 10 FOOT BUFFER IMMEDIATELY ADJACENT TO THE ACCESS AND MAINTENANCE ROADS.
- NON-NATIVE OR INVASIVE PLANT SPECIES NOT INTENDED TO OCCUR IN THE METHODS ACCEPTABLE TO USAGE.
- BOUNDARY FENCING WILL BE PLACED AROUND THE PARK. FENCE DESIGN WILL BE COORDINATED WITH ADJACENT LANDOWNERS BUT IT IS EXPECTED TO BE BARBED WIRE BUILT IN ACCORDANCE WITH TXDOT STANDARD DRAWING WF (1)-95.
- BOUNDARY FENCES AND ACCESS ROADS WILL BE CONSTRUCTED CONCURRENT WITH PLANTING AND WILL BE MONITORED AND MAINTAINED BY TXDOT FOR THE FIRST FIVE YEARS FOLLOWING COMPLETION OF INITIAL CONSTRUCTION.

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TEAM LEADER
DMM-HARRIS
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TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 16
PLUM CREEK MITIGATION PARK
GENERAL NOTES

SCALE: NTS

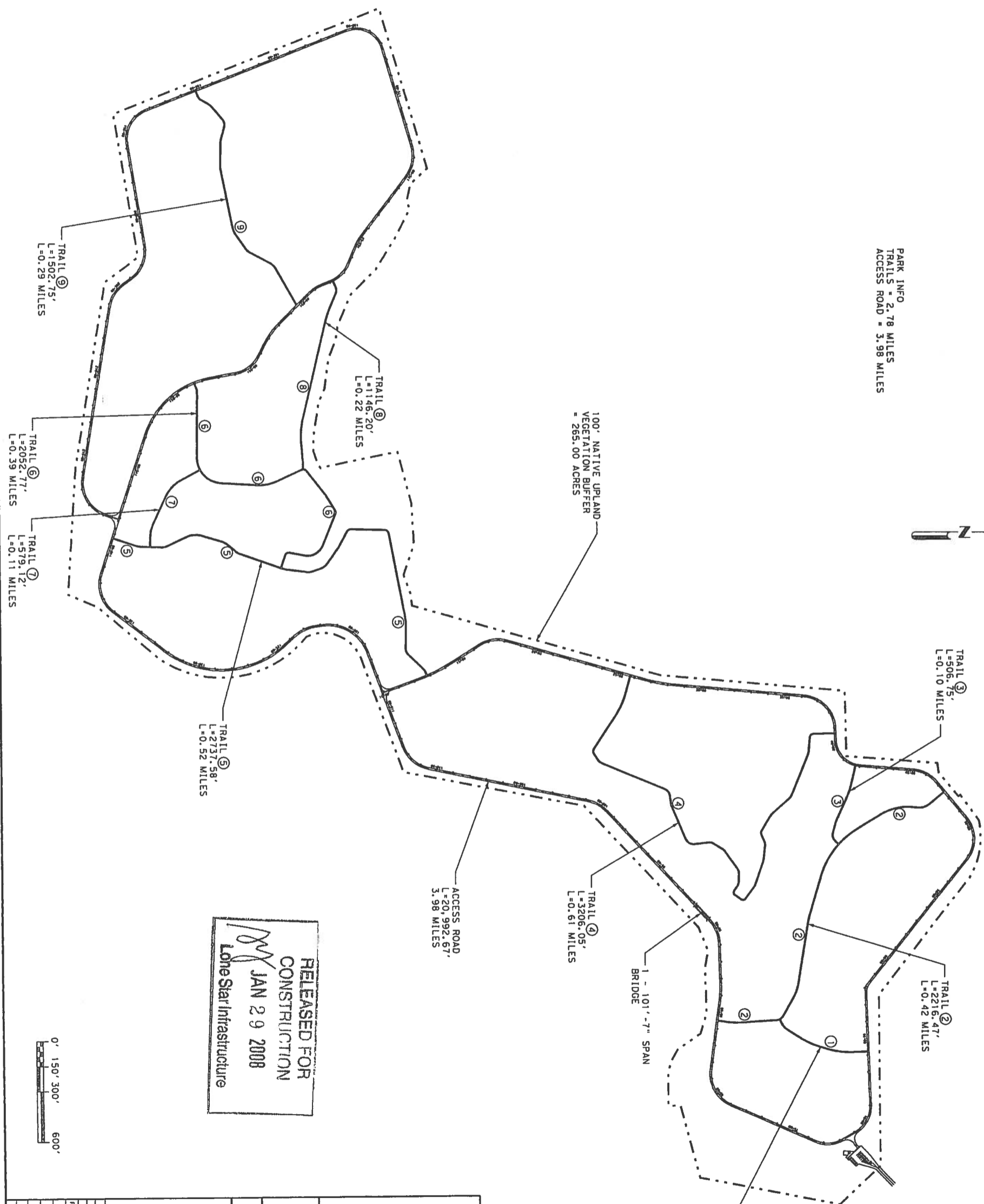
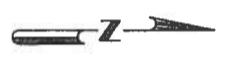
SHEET 1 OF 1 SHEETS

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SAVAN BRIDGES	01-11-08	DAVID BRIDGES	10-24-07
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FED AID PROJECT NO.	86-2XXD001	SHEET NAME	DWG 1
STATE	TX	COUNTY	AUS
CONTRACT		JOB	HIGHWAY SH 130

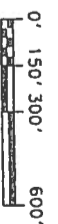
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1	02/27/08	BRIDGES	T76 AFC

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMB	APPROVED FOR CONST

PARK INFO
 TRAILS = 2.78 MILES
 ACCESS ROAD = 3.98 MILES



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Brian W. Dodson
 1/14/08

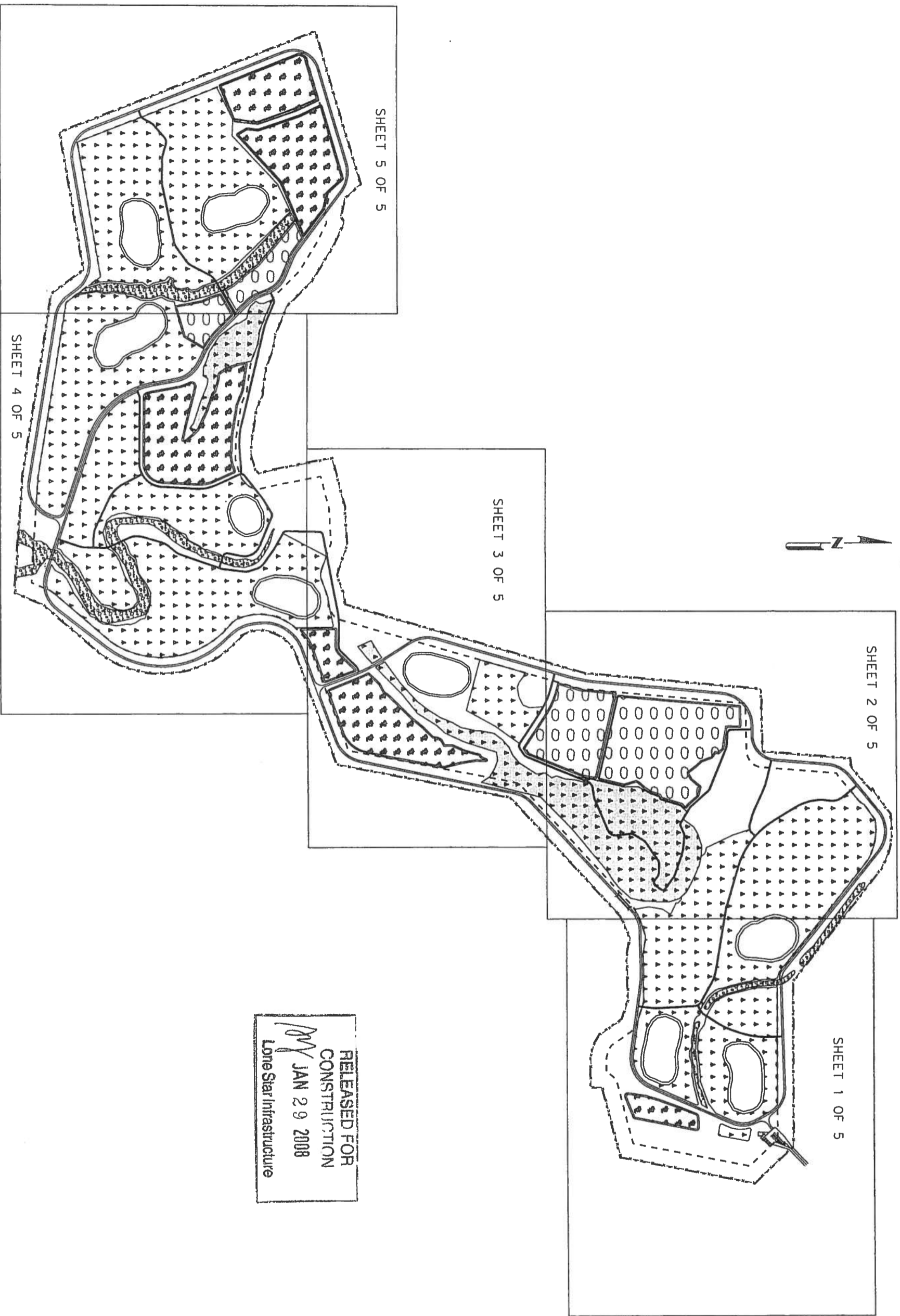
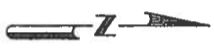
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 DMM/HARRIS
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 TEXAS DEPARTMENT OF TRANSPORTATION
 SECTION 5, SECTION 16
 PLUM CREEK MITIGATION PARK
 ACCESS ROAD AND TRAILS

SCALE: 1" = 600'

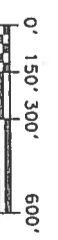
SHEET 1 OF 1 SHEETS

DESIGNED BY: JMB	CHECKED BY: JMB	DATE: 10-11-07
DRAWN BY: JMB	CHECKED BY: BMD	DATE: 10-11-07
APPROVED BY: BMD	DATE: 01-11-08	PROJECT NO:
FED/ FED AID PROJECT NO:	SHEET NAME:	DWG NO:
6	86-2XDB001	PP5
STATE:	DISTRICT:	COUNTY:
TX	AUS	
CONT:	SECT:	JOB:
		HIGHWAY:
		SH131

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMB	APPROVED FOR CONST



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JAN 29 2008
Lone Star Infrastructure



STATE OF TEXAS
BRIAN W. DODSON
 LICENSED PROFESSIONAL ENGINEER
 90526

Brian Dodson 1/14/08

TECHNICAL ENGINEER
 DALLAS, TEXAS

TEXAS DEPARTMENT OF TRANSPORTATION
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 SECTION 5, SECTION 16
 PLUM CREEK MITIGATION PARK
 KEYMAP

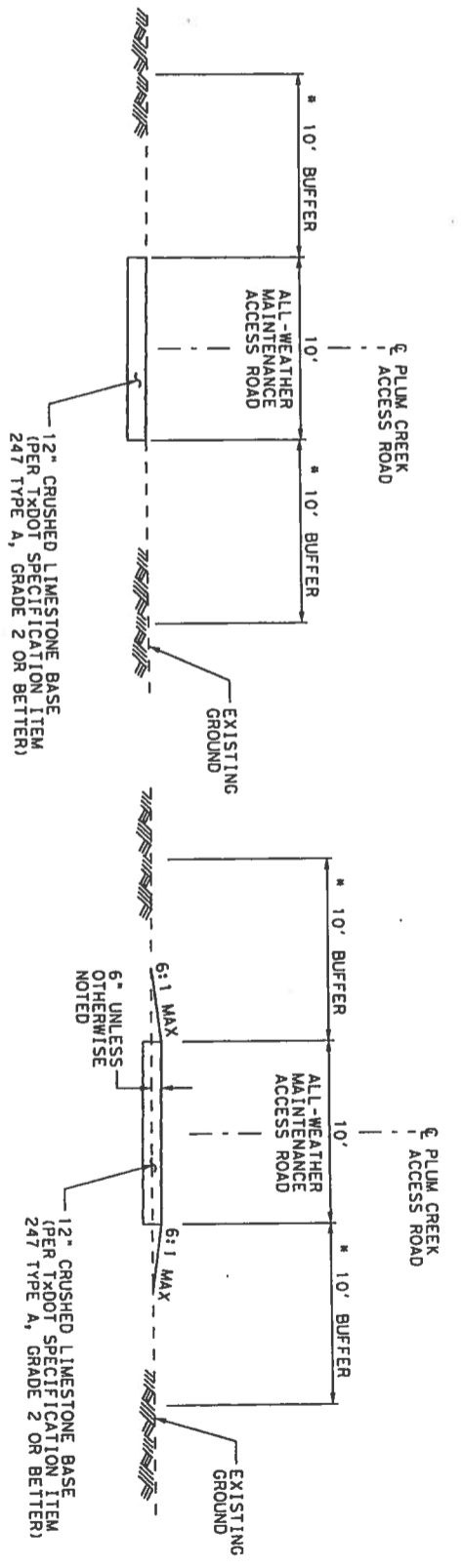
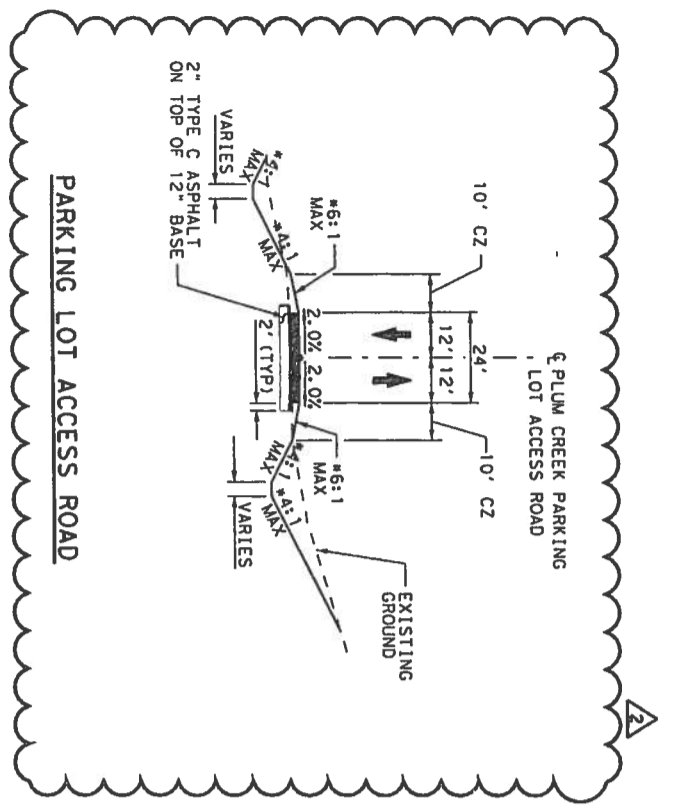
SCALE: 1" = 600'

SHEET 1 OF 1 SHEETS

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APPROVED BY: BMD	DATE: 01-11-08	PROJECT NO:
FED/ FED AID PROJECT NO:	SHEET NAME:	DMC IN:
6 86-2XDB001	PP6	

STATE	DISTRICT	COUNTY
TX	AUS	
CONTRACT	SECTION	JOB
		HIGHWAY
		SHEET NO.
		35

REV	DATE	BY	DESCRIPTION
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2	03/25/08	BMD	APPROVED 179 AFC

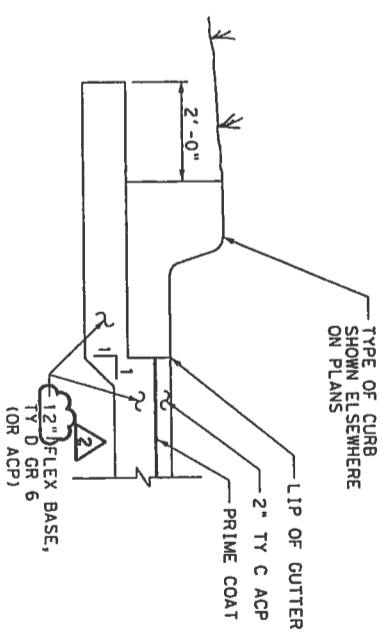
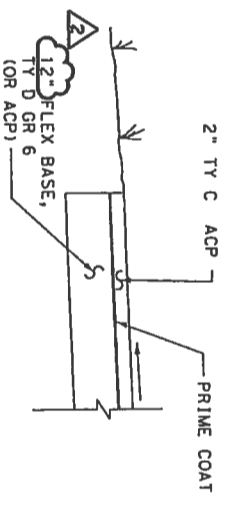
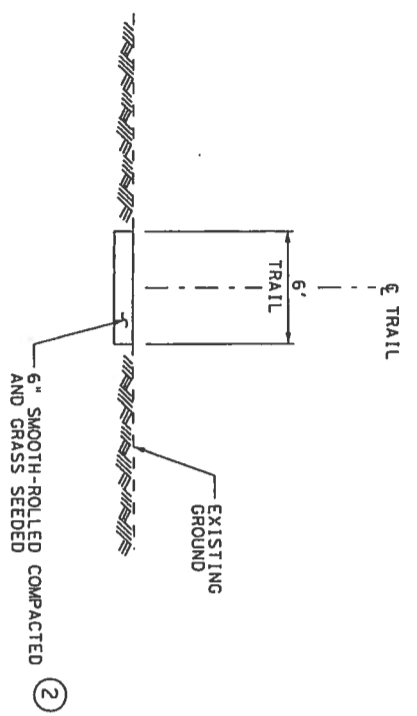


ACCESS ROAD
(FOR LOCATIONS WHERE ACCESS ROAD PROFILE MATCHES EXISTING GROUND)

10' BUFFER FROM EDGE OF ACCESS ROAD SHALL NOT CONTAIN ANY SEEDING FOR TREES OR SHRUBS. ALLOWABLE ONLY FOR MOW STRIP.

ACCESS ROAD
(FOR LOCATIONS WHERE ACCESS ROAD PROFILE DOES NOT MATCH EXISTING GROUND AND WILL REQUIRE FILL)

- 1 THE EFFECT OF FILL SHOULD NOT UNDERMINE THE HYDROLOGY ACROSS THE PROJECT SITE UNLESS WITHIN THE 100' NATIVE UPLAND VEGETATION BUFFER.
- 2 SUBJECT TO TYP01 APPROVAL A SMOOTH-ROLLED COMPACTED TRAIL NEED NOT BE UTILIZED IN ESTABLISHED VEGETATIVE AREAS SUCH AS THE PRESERVED RIPARIAN WOODLANDS.



PARKING LOT AND PARKING LOT ACCESS ROAD TYPICAL SECTIONS

TRAIL DETAIL

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MAR 29 2008
Lone Star Infrastructure



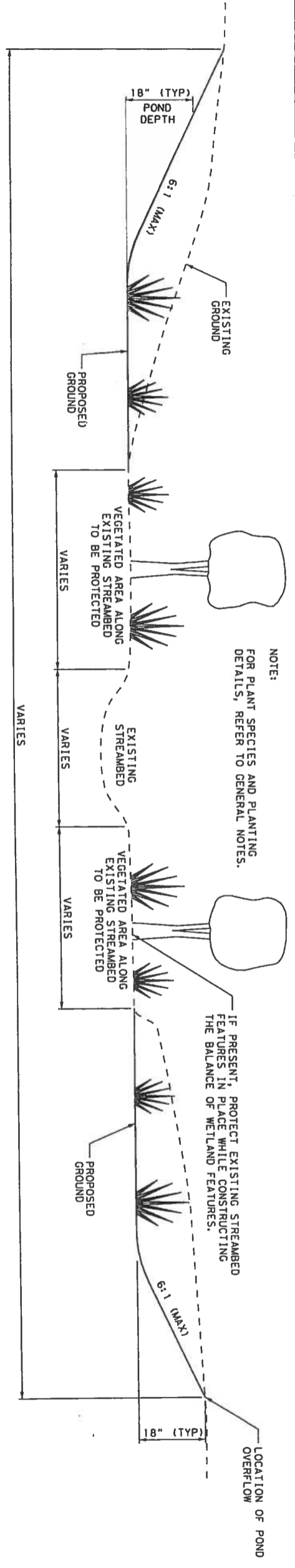
TEXAS DEPARTMENT OF TRANSPORTATION
TEAM MEMBER
DANIEL HARRIS
SEGMENT 5, SECTION 16
PLUM CREEK MITIGATION PARK
ACCESS ROAD AND TRAILS
TYPICAL SECTIONS

SCALE: NTS

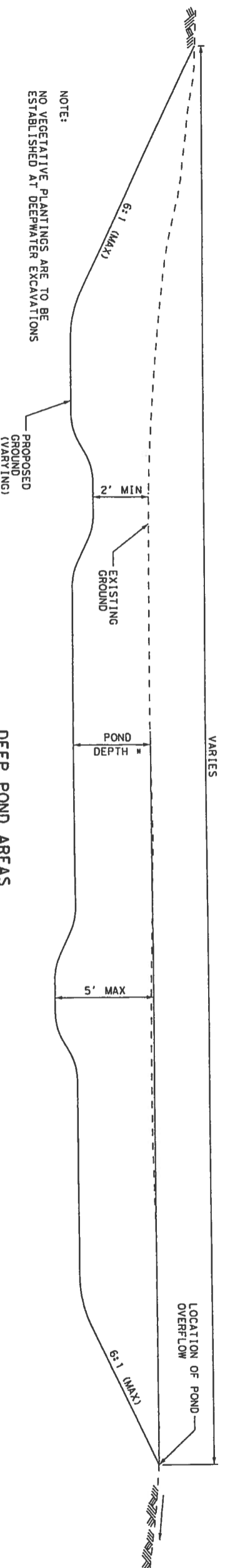
SHEET 1 OF 1 SHEETS

DESIGNED BY	CHECKED BY	DATE
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APPROVED BY	DATE	PROJECT NO.
BMD	01-11-08	10-24-07
FED. AID PROJECT NO.	SHEET NAME	DWG.
86-2XX09001	PP	
STATE	DISTRICT	COUNTY
TX	AUS	
CONTRACT	JOB	HIGHWAY
		SH1

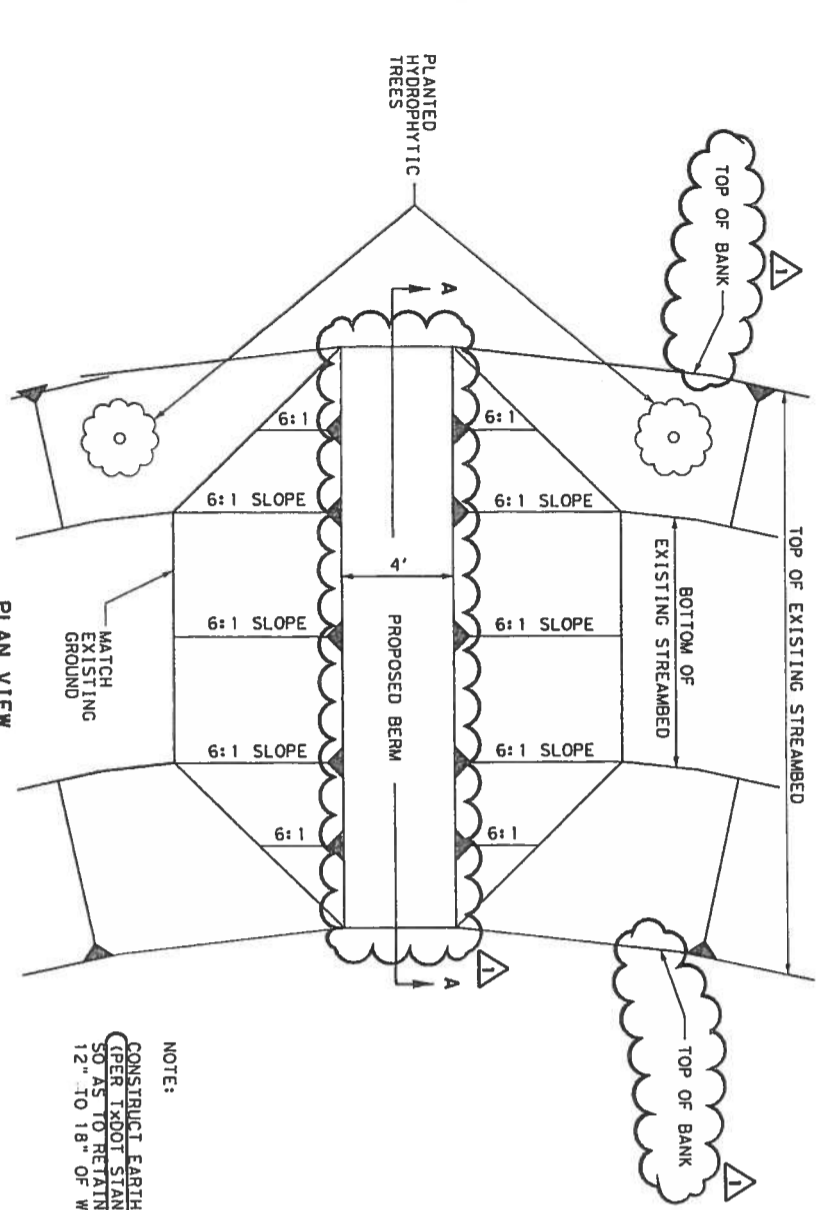
REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/21/08	BMD	REVISED 776 AFC



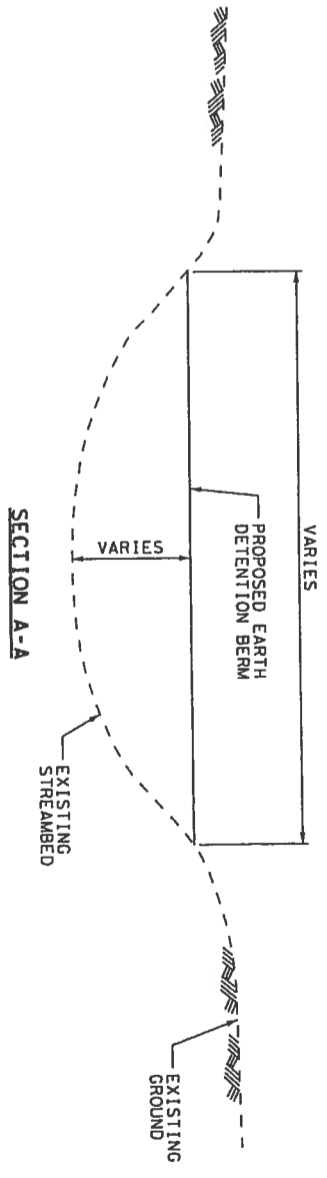
EMERGENT & FORESTED/SCRUB WETLANDS



DEEP POND AREAS



PLAN VIEW



SECTION A-A

STREAMBED EARTH DETENTION BERM

RELEASED FOR
CONSTRUCTION
MAR 03 2008
Lone Star Infrastructure



TEXAS DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
TEAM LEADER
DANIEL HARRIS

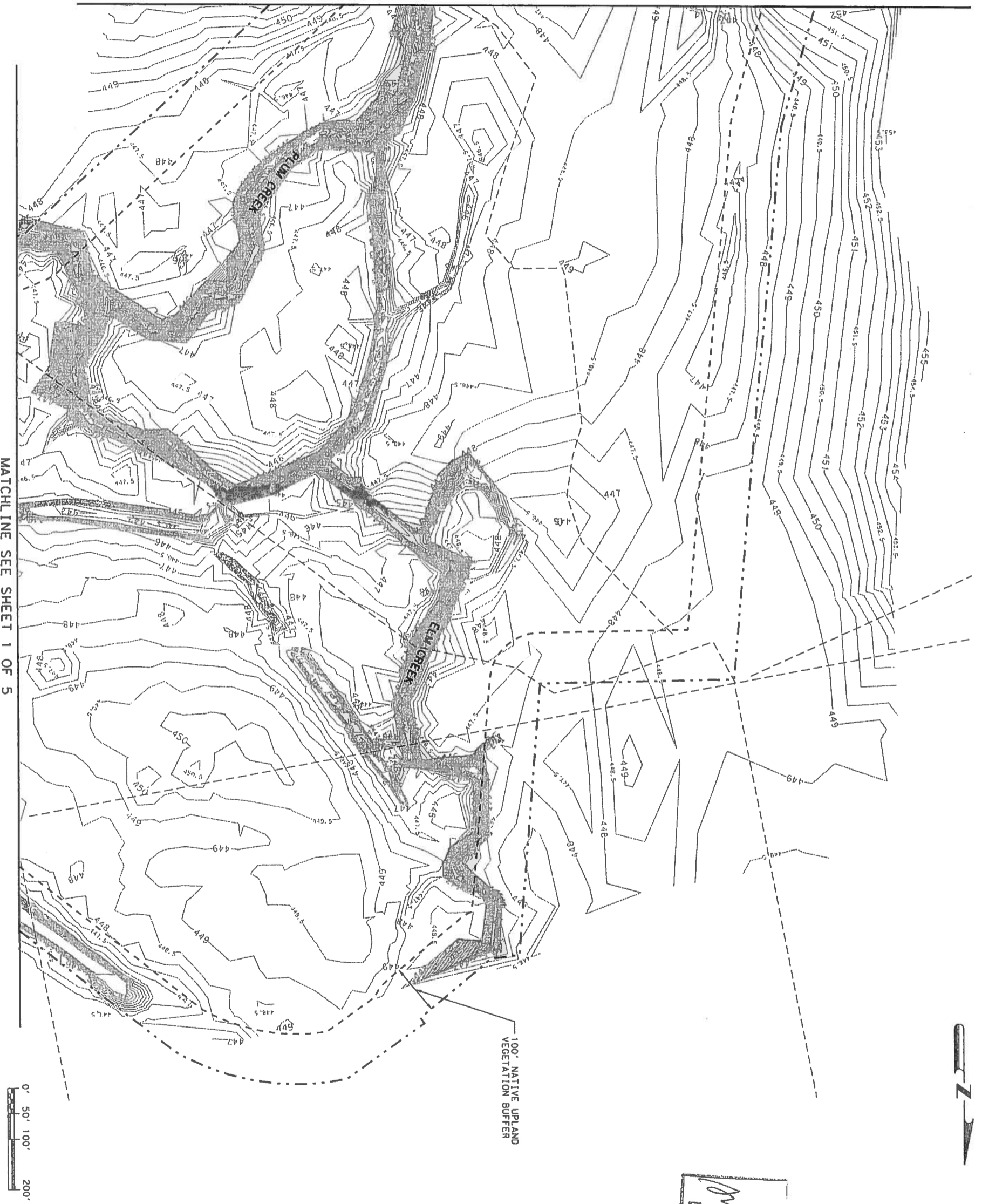
SEGMENT 5, SECTION 16
PLUM CREEK MITIGATION PARK
POND DETAILS &
BERM DETAILS

DESIGNED BY: JMB	CHECKED BY: BMD	DATE: 11-27-
DRAWN BY: JMB	CHECKED BY: BMD	DATE: 11-27-
APPROVED BY: BMD	DATE: 01-11-08	PROJECT NO:
FED. AID PROJECT NO:	SHEET NAME:	DMG
6 86-2XXDB001	PP	
STATE:	DISTRICT:	COUNTY:
TX	AUS	
CONTRACT:	SECT:	JOB:
		HIGHWAY:
		SHI:

SCALE: NTS

SHEET 1 OF 1 SHEETS

MATCHLINE SEE SHEET 3 OF 5



MATCHLINE SEE SHEET 1 OF 5

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST

RELEASED FOR
CONSTRUCTION
JAN 29 2008
Lone Star Infrastructure



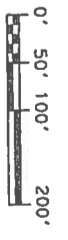
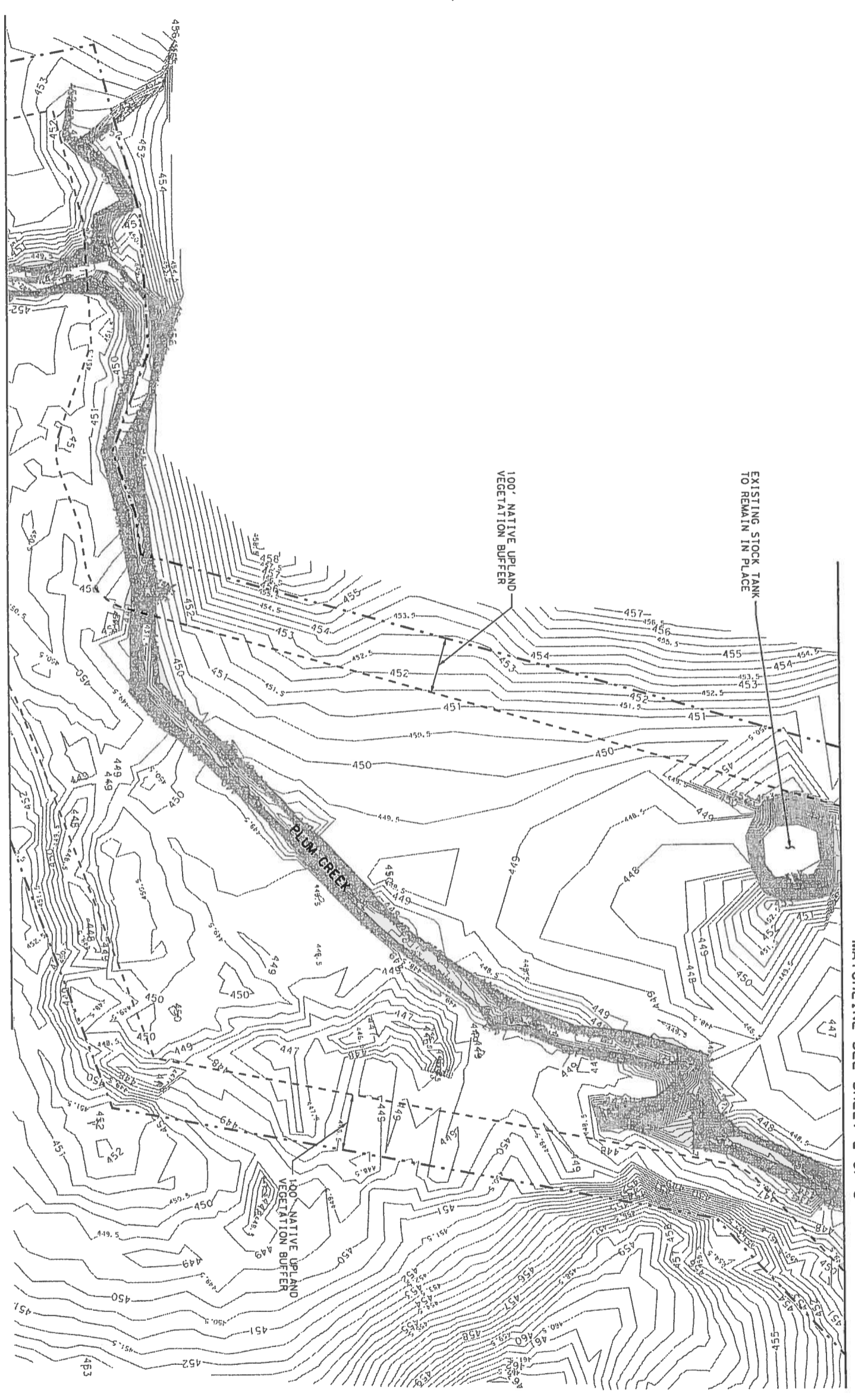
Brian W. Dodson
1/19/08

TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5, SECTION 16
PLUM CREEK MITIGATION PARK
EXISTING CONDITIONS

SCALE: 1" = 200'

SHEET 2 OF 5 SHEETS			
DESIGNED BY: JDB	CHECKED BY: JDB	DATE: 10-13-07	
DRAWN BY: JDB	CHECKED BY: BMD	DATE: 10-13-07	
APPROVED BY: BMD	DATE: 01-11-08	PROJECT NO:	
FED. AID PROJECT NO:	SHEET NAME:	DWG. NO.:	
6 86-2XXDB001	PPI 1		
STATE:	DISTRICT:	COUNTY:	
TX	AUS	JOB:	HIGHWAY
CONT:	SECT:		SH13

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST



RELEASED FOR
 CONSTRUCTION
 JAN 29 2008
 Lone Star Infrastructure



TEAM MEMBER
 DINA MARRAS
 TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION 16
 PLUM CREEK MITIGATION PARK
 EXISTING CONDITIONS

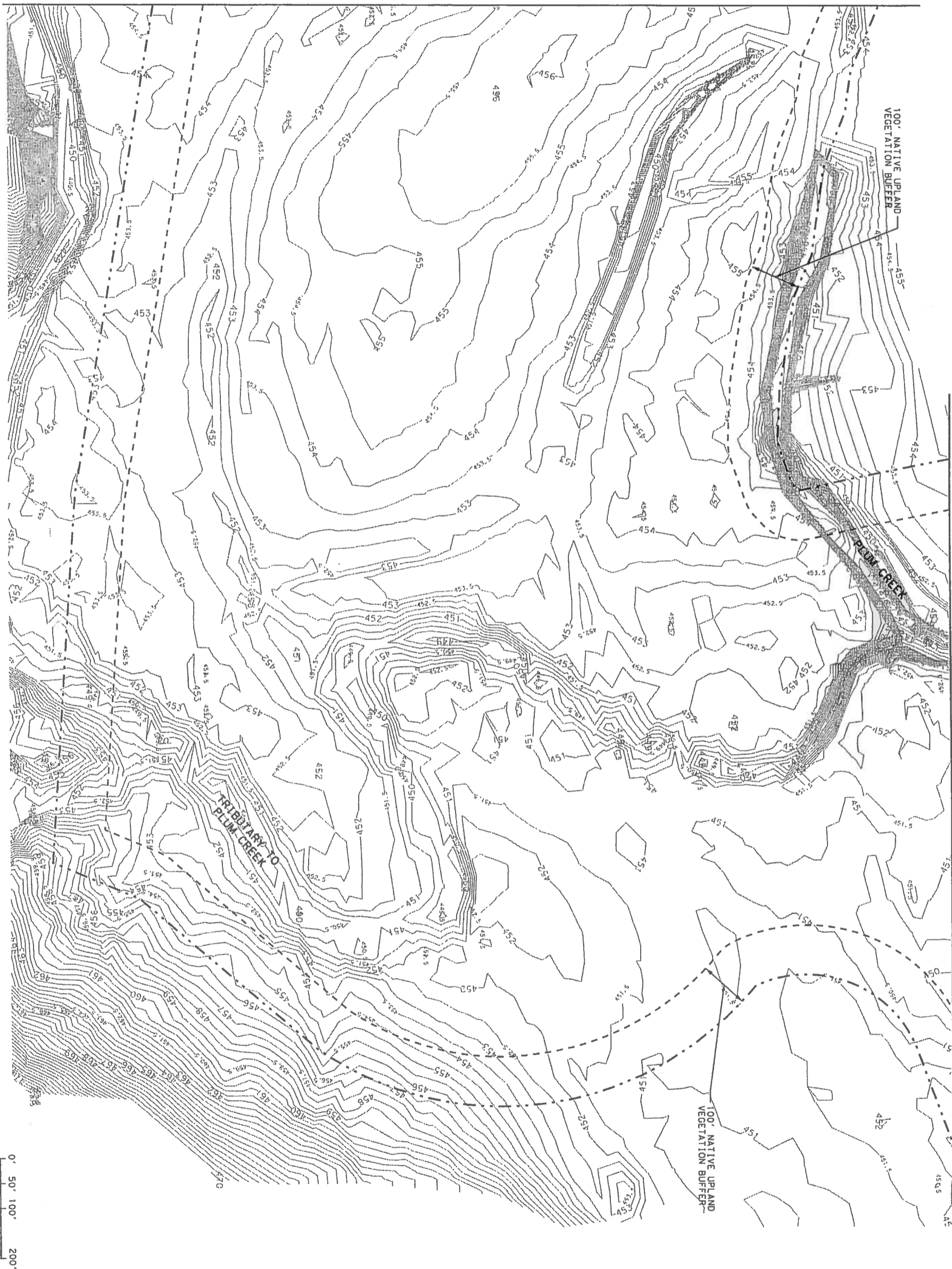
SCALE: 1" = 200'
 SHEET 3 OF 5 SHEETS

DESIGNED BY: JDB	CHECKED BY: DF	DATE: 10-
DRAWN BY: JDB	DATE: 01-11-08	PROJECT NO:
FED. AID PROJECT NO:	SHEET NAME:	F
STATE: 86-2XXDB001	DISTRICT:	COUNTY:
TX	AUS	JOB:
CONT	SECT	HWO:
ST		

MATCHLINE SEE SHEET 4 OF 5

MATCHLINE SEE SHEET 2 OF 5

MATCHLINE SEE SHEET 5 OF 5



MATCHLINE SEE SHEET 3 OF 5



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST

RELEASED FOR
CONSTRUCTION
JAN 29 2008
Lone Star Infrastructure



Brian W. Dodson
1/14/08



TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 16
PLUM CREEK MITIGATION PARK
EXISTING CONDITIONS

SCALE: 1" = 200'

SHEET 4 OF 5 SHEETS

DESIGNED BY	JOB	CHECKED BY	DATE	10-15-C
DRWEN	BRJ	DRWEN	01-11-08	PROJECT NO.
FED	FED AID PROJECT NO.	SHEET NAME	DWG #	
6	B6-2XXXDB001		PPI	
STATE	DISTRICT	COUNTY		
TX	AUS			
CONT	SECT	JOB	HIGHWAY	
			SH13	

PLUM CREEK PARK ACCESS ROAD

PLUM CREEK PARK ACCESS ROAD - CONT'D

PLUM CREEK PARK ACCESS ROAD - CONT'D

Curve No.	Station	Delta	Length	Radius	Chord	Dist
Curve PLUMAR-1	13+38.35	11° 48'	13.38	100.0000	23.28	13,885,622.1734
Curve PLUMAR-2	2+384,411.9189	17° 33' 32"	27.50	88.9769	48.00	13,887,355.5934
Curve PLUMAR-3	2+384,693.1087	1° 48'	36.9769	46.4803	5.43	13,887,355.5934
Curve PLUMAR-4	2+384,785.4758	28° 38'	23.4631	181.9805	28.38	13,888,396.2702
Curve PLUMAR-5	2+385,170.9821	85° 02'	05.8544	142.1183	5.71	13,888,398.4879
Curve PLUMAR-6	2+385,214.9291	46° 08'	52.8886	160.9706	28.38	13,888,940.7530
Curve PLUMAR-7	2+385,621.0812	77° 55'	38.7606	151.7472	28.38	13,889,272.5920
Curve PLUMAR-8	2+385,622.4454	11° 48'	13.38	100.0000	23.28	13,889,272.5920
Curve PLUMAR-9	2+387,315.6131	62° 13'	70.07	108.5355	43.31	13,888,592.2041
Curve PLUMAR-10	2+387,457.3057	53° 28'	72.72	168.0192	31.49	13,888,342.7676
Curve PLUMAR-11	2+387,138.5312	80° 46'	56.57	125.0213	28.38	13,887,622.8508
Curve PLUMAR-12	2+386,528.9608	9° 20'	85.18	40.8661	11.27	13,887,708.1691
Curve PLUMAR-13	2+386,162.3779	41° 23'	56.6230	144.4806	28.38	13,887,699.3546
Curve PLUMAR-14	2+385,397.4890	35° 27'	100.20	123.7912	28.38	13,886,991.7804
Curve PLUMAR-15	2+385,164.1329	57° 54'	40.7974	202.6487	28.38	13,885,871.3983
Curve PLUMAR-16	2+384,316.5269	76° 15'	120.45	198.2258	22.55	13,885,557.4697
Curve PLUMAR-17	2+384,352.2272	35° 23'	57.05	125.0213	22.55	13,885,247.9815
Curve PLUMAR-18	2+384,769.2230	79° 34'	4.0314	179.7832	10.13	13,884,784.5247
Curve PLUMAR-19	2+384,457.3119	10° 13'	46.3108	560.0000	10.13	13,885,131.1885
Curve PLUMAR-20	2+384,484.7501	77° 17'	777.7103	168.7416	10.13	13,884,415.0121
Curve PLUMAR-21	2+384,041.0156	152° 01'	124.9956	11.8241	11.27	13,885,355.8874
Curve PLUMAR-22	2+385,000.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-23	2+385,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-24	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-25	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-26	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-27	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-28	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-29	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-30	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-31	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-32	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-33	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-34	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-35	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-36	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-37	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-38	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-39	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-40	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-41	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-42	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-43	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-44	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-45	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-46	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-47	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-48	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-49	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-50	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-51	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-52	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-53	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-54	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-55	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-56	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-57	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-58	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-59	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-60	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-61	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-62	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-63	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-64	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-65	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-66	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-67	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-68	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-69	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-70	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-71	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-72	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-73	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-74	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-75	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-76	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-77	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-78	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-79	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-80	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-81	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-82	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-83	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-84	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-85	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-86	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-87	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-88	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-89	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-90	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-91	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-92	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-93	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-94	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-95	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-96	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-97	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671
Curve PLUMAR-98	2+386,569.4324	81° 48'	81.4802	133.887	11.27	13,887,643.7733
Curve PLUMAR-99	2+386,488.1065	85° 17'	94.94	133.887	11.27	13,887,841.8426
Curve PLUMAR-100	2+386,500.1257	85° 59'	49.94	178.2514	11.27	13,887,760.8671

SCALE: NONE

SHEET 1 OF 7 SHEETS

PLUM CREEK MITIGATION PARK
HORIZONTAL ALIGNMENT DATA
ACCESS ROAD

DATE: 1/14/04

BRIAN W. DODSON
LICENSED PROFESSIONAL ENGINEER
90526

LONG STAR INFRASTRUCTURE

RELEASED FOR CONSTRUCTION
JAN 29 2008

DATE: 01/11/08
BY: [Signature]
DESCRIPTION: APPROVED FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION
0	01/11/08	BWD	APPROVED FOR CONSTRUCTION

PLUM CREEK PARK TRAIL #1

PLUM CREEK PARK TRAIL #2 - CONT'D

PLUM CREEK PARK TRAIL #3

Beginning chain PLTR1 description

Point PL222	X	2,386,886.9437	Y	13,888,578.5581	Sto	10-00.00
Course from PL222 to PC PLTR1-1	S	1° 49'	23.88° E	Dist	86.9442	
Curve Data						
Curve PLTR1-1		11-20.95	X	2,386,892.3829	Y	13,888,407.6927
P.I. Station		11° 04'	23.86° (RT)			
Delta		11° 27'	42.36°			
Length		166.4607				
Radius		500.0000				
External		163.9330				
Long Chord		102.8530				
Mid. Ord.		102.8530				
P.C. Station		12+53.40	X	2,386,889.7100	Y	13,888,491.6579
P.T. Station		12+53.40	X	2,386,867.4687	Y	13,888,527.4644
C.C. Station		12+53.40	X	2,386,589.9631	Y	13,888,475.7493
Back Sight		1° 49'	23.88° E			
Chord Bear		S 17° 15'	06.09° W	Dist	32.3910	
Course from PT PLTR1-1 to PC PLTR1-2 S 17° 15' 06.09° W						
Curve Data						
Curve PLTR1-2		13-54.22	X	2,386,837.5704	Y	13,888,231.1859
P.I. Station		13° 54'	22.00° (RT)			
Delta		11° 27'	32.96°			
Length		68.4229				
Radius		136.0011				
External		500.0000				
Long Chord		4.6170				
Mid. Ord.		135.5822				
P.C. Station		14+21.80	X	2,386,857.8625	Y	13,888,299.5306
P.T. Station		14+21.80	X	2,386,800.4987	Y	13,888,442.8754
C.C. Station		14+21.80	X	2,386,580.3593	Y	13,888,442.8754
Back Sight		S 17° 15'	06.09° W			
Chord Bear		S 25° 02'	36.33° W	Dist	84.4885	
Course from PT PLTR1-2 to PC PLTR1-3 S 25° 02' 36.33° W						
Curve Data						
Curve PLTR1-3		15-31.40	X	2,386,739.9505	Y	13,888,079.9199
P.I. Station		15° 31'	40.00° (RT)			
Delta		30° 20'	47.58°			
Length		52.9647				
Radius		100.0000				
External		3.6121				
Long Chord		52.3478				
Mid. Ord.		15.2650				
P.C. Station		15+59.25	X	2,386,754.6557	Y	13,888,102.7052
P.T. Station		15+59.25	X	2,386,670.6333	Y	13,888,156.9302
C.C. Station		15+59.25	X	2,386,670.6333	Y	13,888,156.9302
Back Sight		S 32° 50'	10.57° W			
Chord Bear		S 63° 10'	58.15° W	Dist	27.1377	
Course from PT PLTR1-3 to PL223 S 63° 10' 58.15° W						
Point PL223 X 2,386,691.5287 Y 13,888,055.4421 Sto 15+86.39						
Ending chain PLTR1 description						

Beginning chain PLTR2 description

Point PL224	X	2,385,336.0522	Y	13,889,041.3484	Sto	10-00.00
Course from PL224 to PC PLTR2-1	S	39° 54'	58.95° E	Dist	113.8271	
Curve Data						
Curve PLTR2-1		11-55.61	X	2,385,437.9036	Y	13,888,921.9968
P.I. Station		11° 55'	61.00° (RT)			
Delta		45° 21'	18.74°			
Length		74.1588				
Radius		100.0000				
External		8.3789				
Long Chord		77.1091				
Mid. Ord.		11.9239				
P.C. Station		11+92.39	X	2,385,411.0915	Y	13,888,954.0451
P.T. Station		11+92.39	X	2,385,433.9431	Y	13,888,880.3999
C.C. Station		11+92.39	X	2,385,334.5933	Y	13,888,889.8782
Back Sight		S 39° 54'	58.95° E			
Chord Bear		S 17° 14'	19.58° E	Dist	33.5386	
Course from PT PLTR2-1 to PC PLTR2-2 S 17° 14' 19.58° E						
Curve Data						
Curve PLTR2-2		13-26.98	X	2,385,421.2428	Y	13,888,747.0096
P.I. Station		13° 27'	40.00° (LT)			
Delta		19° 05'	54.94°			
Length		100.4549				
Radius		193.8689				
External		300.0000				
Long Chord		196.3139				
Mid. Ord.		15.5247				
P.C. Station		14+20.39	X	2,385,430.7642	Y	13,888,847.0122
P.T. Station		14+20.39	X	2,385,473.8609	Y	13,888,661.4378
C.C. Station		14+20.39	X	2,385,729.4138	Y	13,888,818.5773
Back Sight		S 39° 54'	58.95° E			
Chord Bear		S 13° 04'	27.41° E	Dist	160.2104	
Course from PT PLTR2-2 to PC PLTR2-3 S 13° 04' 27.41° E						

Beginning chain PLTR3 description

Point PL225	X	2,385,650.5822	Y	13,888,413.9924	Sto	10-00.00
Course from PL225 to PC PLTR3-1	S	41° 46'	37.03° W	Dist	26.4813	
Curve Data						
Curve PLTR3-1		10-57.86	X	2,385,612.2355	Y	13,888,371.0696
P.I. Station		10° 58'	24.25° (RT)			
Delta		11° 33'	31.07°			
Length		55.6092				
Radius		50.0000				
External		8.9703				
Long Chord		52.4818				
Mid. Ord.		10.2548				
P.C. Station		10+82.09	X	2,385,632.9394	Y	13,888,394.2442
P.T. Station		10+82.09	X	2,385,582.2899	Y	13,888,379.3746
C.C. Station		10+82.09	X	2,385,595.6523	Y	13,888,427.5560
Back Sight		S 41° 46'	37.03° W			
Chord Bear		S 74° 29'	57.80° W	Dist	56.1528	
Course from PT PLTR3-1 to PC PLTR3-2 N 74° 29' 57.80° W						
Curve Data						
Curve PLTR3-2		11-57.90	X	2,385,509.2364	Y	13,888,399.6350
P.I. Station		11° 57'	31.67° (RT)			
Delta		22° 55'	05.92°			
Length		19.6582				
Radius		39.3256				
External		250.0000				
Long Chord		0.7693				
Mid. Ord.		39.1953				
P.C. Station		11+39.24	X	2,385,528.1795	Y	13,888,394.2814
P.T. Station		11+39.24	X	2,385,481.3472	Y	13,888,435.2883
C.C. Station		11+39.24	X	2,385,594.9917	Y	13,888,435.2883
Back Sight		N 74° 29'	57.80° W			
Chord Bear		N 65° 30'	26.13° W	Dist	123.6222	
Course from PT PLTR3-2 to PC PLTR3-3 N 65° 30' 26.13° W						
Curve Data						
Curve PLTR3-3		13-49.26	X	2,385,335.0282	Y	13,888,478.9996
P.I. Station		13° 49'	08.00° (LT)			
Delta		11° 00'	08.00°			
Length		42.563				
Radius		96.0125				
External		500.0000				
Long Chord		2.3135				
Mid. Ord.		95.8851				
P.C. Station		13+23.02	X	2,385,378.8493	Y	13,888,459.0359
P.T. Station		13+23.02	X	2,385,288.2025	Y	13,888,490.2333
C.C. Station		13+23.02	X	2,385,171.5603	Y	13,888,004.0290
Back Sight		N 76° 30'	34.14° W			
Chord Bear		N 71° 00'	30.13° W	Dist	112.6325	
Course from PT PLTR3-3 to PL227 N 76° 30' 34.14° W						
Point PL227 X 2,385,178.5777 Y 13,888,516.5087 Sto 15-09.75						
Ending chain PLTR3 description						

NOTE: THE HORIZONTAL ALIGNMENT DATA LISTED FOR TRAILS IS FOR INFORMATIONAL PURPOSES ONLY. AS REQUIRED THE TRAIL MAY BE FIELD FIT IN ORDER TO AVOID EXISTING FEATURES.

SCALE: NONE

SHEET 3 OF 7 SHEETS

DESIGNED BY: JWB
CHECKED BY: JWB
DATE: 01-11-08

FED. AID PROJECT NO. SHEET NAME
61 B6-2X08001

STATE DISTRICT COUNTY
TX AUS

CONTRACT NO. JOB

REV DATE BY DESCRIPTION

01/11/08 JWB/APP/PROV FOR CONST

RELEASED FOR CONSTRUCTION
JAN 29 2008
Lone Star Infrastructure

BRIAN W. DODSON
PROFESSIONAL ENGINEER
90526

TEAM LEADER
DANIEL HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5: SECTION 16
PLUM CREEK MITIGATION PARK
HORIZONTAL ALIGNMENT DATA
TRAILS #1, #2 & #3

PLUM CREEK PARK TRAIL #4

PLUM CREEK PARK TRAIL #4 - CONT'D

PLUM CREEK PARK TRAIL #4 - CONT'D

Beginning chain PLTR4 description	Point PL228	X	Y	13,888,397.4608	Sto	10-00.00
Course from PL228 to PC PLTR4-1	S 0° 19' 46.63" E				Dist	125.8133
Curve PLTR4-1						
P.I. Station	84° 59' 14.48" E	X	2,384,993.2811	Y		13,888,248.7430
Delta	229° 10' 59.22" E	(RT)				
Degree	229					
Tangent	11.5066					
Length	22.9125					
Radius	100.0000					
External	2.0000					
Long Chord	22.8629					
Mid. Ord.	0.6555					
P.C. Station	18-57.21	X	2,385,725.9575	Y		13,887,968.5274
P.T. Station	18-57.21	X	2,385,725.9575	Y		13,887,968.5274
C.C.	20-00.34	X	2,385,725.9575	Y		13,887,968.5274
Book	5 83° 59' 21.55" E					
Ahead	3 77° 25' 31.44" E					
Course from PT PLTR4-7 to PC PLTR4-8	S 70° 51' 41.23" E					Dist 139.1404
Curve PLTR4-8						
P.I. Station	16° 54' 22.82" E	X	2,385,896.7415	Y		13,887,915.4961
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	17.4308					
Length	50.0000					
Radius	0.5491					
External	14.7001					
Long Chord	21.5942					
Mid. Ord.	2.5342					
P.C. Station	18-57.21	X	2,385,896.7415	Y		13,887,915.4961
P.T. Station	18-57.21	X	2,385,896.7415	Y		13,887,915.4961
C.C.	20-00.34	X	2,385,896.7415	Y		13,887,915.4961
Book	5 70° 51' 41.23" E					
Ahead	3 53° 57' 18.41" E					
Course from PT PLTR4-8 to PC PLTR4-9	S 53° 57' 18.41" E					Dist 87.9491
Curve PLTR4-9						
P.I. Station	90° 00' 00.00" E	X	2,385,990.0326	Y		13,887,847.6044
Delta	288° 28' 44.03" E	(RT)				
Degree	288					
Tangent	20.0000					
Length	20.0000					
Radius	0.0000					
External	2.0000					
Long Chord	20.0000					
Mid. Ord.	0.0000					
P.C. Station	22-42.18	X	2,385,978.2642	Y		13,887,899.3728
P.T. Station	22-42.18	X	2,385,978.2642	Y		13,887,899.3728
C.C.	22-42.18	X	2,385,978.2642	Y		13,887,899.3728
Book	5 53° 57' 18.41" E					
Ahead	3 36° 02' 41.59" E					
Course from PT PLTR4-9 to PC PLTR4-10	S 36° 02' 41.59" W					Dist 42.6696
Curve PLTR4-10						
P.I. Station	23° 35' 27.18" E	X	2,385,941.3883	Y		13,887,780.7614
Delta	288° 28' 44.03" E	(RT)				
Degree	288					
Tangent	20.0000					
Length	20.0000					
Radius	0.0000					
External	2.0000					
Long Chord	20.0000					
Mid. Ord.	0.0000					
P.C. Station	23-47.69	X	2,385,925.6855	Y		13,887,785.2325
P.T. Station	23-47.69	X	2,385,925.6855	Y		13,887,785.2325
C.C.	23-47.69	X	2,385,925.6855	Y		13,887,785.2325
Book	5 36° 02' 41.59" W					
Ahead	3 81° 02' 18.41" W					
Course from PT PLTR4-10 to PC PLTR4-11	N 53° 57' 18.41" W					Dist 29.3507
Curve PLTR4-11						
P.I. Station	23° 35' 27.18" E	X	2,385,889.1860	Y		13,887,818.7511
Delta	90° 00' 00.00" E	(RT)				
Degree	90					
Tangent	20.0000					
Length	20.0000					
Radius	0.0000					
External	2.0000					
Long Chord	20.0000					
Mid. Ord.	0.0000					
P.C. Station	24-06.57	X	2,385,901.4854	Y		13,887,809.8003
P.T. Station	24-06.57	X	2,385,901.4854	Y		13,887,809.8003
C.C.	24-06.57	X	2,385,901.4854	Y		13,887,809.8003
Book	5 36° 02' 41.59" W					
Ahead	3 81° 02' 18.41" W					
Course from PT PLTR4-11 to PC PLTR4-12	N 87° 47' 52.87" W					Dist 47.5246
Curve PLTR4-12						
P.I. Station	35° 48' 06.03" E	X	2,385,809.8748	Y		13,887,821.8007
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	16.6336					
Length	32.1155					
Radius	50.0000					
External	3.7564					
Long Chord	24-54.09	X	2,385,826.4961	Y		13,887,821.8007
Mid. Ord.	2-55.62	X	2,385,826.4961	Y		13,887,821.8007
P.C. Station	24-54.09	X	2,385,826.4961	Y		13,887,821.8007
P.T. Station	24-54.09	X	2,385,826.4961	Y		13,887,821.8007
C.C.	24-54.09	X	2,385,826.4961	Y		13,887,821.8007
Book	5 87° 47' 52.87" W					
Ahead	3 73° 48' 04.12" W					
Course from PT PLTR4-12 to PC PLTR4-13	S 55° 24' 01.10" W					Dist 129.3511
Curve PLTR4-13						
P.I. Station	26° 26' 20.20" E	X	2,385,680.9479	Y		13,887,732.8610
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	20.9735					
Length	50.0000					
Radius	1.1203					
External	20.8205					
Long Chord	26-13.25	X	2,385,689.7090	Y		13,887,738.9048
Mid. Ord.	26-13.25	X	2,385,689.7090	Y		13,887,738.9048
P.C. Station	26-13.25	X	2,385,689.7090	Y		13,887,738.9048
P.T. Station	26-13.25	X	2,385,689.7090	Y		13,887,738.9048
C.C.	26-13.25	X	2,385,689.7090	Y		13,887,738.9048
Book	5 55° 24' 01.10" W					
Ahead	3 43° 22' 59.29" W					
Course from PT PLTR4-13 to PC PLTR4-14	S 31° 21' 57.47" W					Dist 62.1208
Curve PLTR4-14						
P.I. Station	37° 38' 29.61" E	X	2,385,634.2047	Y		13,887,656.1809
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	17.0398					
Length	32.8453					
Radius	50.0000					
External	3.8228					
Long Chord	32.4229					
Mid. Ord.	25-98.66	X	2,385,643.0740	Y		13,887,670.7305
P.C. Station	25-98.66	X	2,385,643.0740	Y		13,887,670.7305
P.T. Station	25-98.66	X	2,385,643.0740	Y		13,887,670.7305
C.C.	27-31.50	X	2,385,685.7670	Y		13,887,644.7054
Book	5 31° 21' 57.47" W					
Ahead	3 12° 35' 48.97" W					
Course from PT PLTR4-14 to PC PLTR4-15	S 6° 16' 18.93" E					Dist 82.7694
Curve PLTR4-15						
P.I. Station	73° 27' 10.58" E	X	2,385,649.1840	Y		13,887,519.8875
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	37.3048					
Length	54.0000					
Radius	12.3831					
External	59.7995					
Long Chord	9.9250					
Mid. Ord.	28-14.27	X	2,385,645.1086	Y		13,887,525.4199
P.C. Station	28-14.27	X	2,385,645.1086	Y		13,887,525.4199
P.T. Station	28-14.27	X	2,385,645.1086	Y		13,887,525.4199
C.C.	28-14.27	X	2,385,645.1086	Y		13,887,525.4199
Book	5 6° 16' 18.93" E					
Ahead	3 30° 27' 16.36" W					
Course from PT PLTR4-15 to PC PLTR4-16	S 67° 10' 51.65" W					Dist 211.6831
Curve PLTR4-16						
P.I. Station	30° 36' 55.85" E	X	2,385,413.5980	Y		13,887,420.7644
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	54.6019					
Length	13.1279					
Radius	50.0000					
External	0.4340					
Long Chord	13.0903					
Mid. Ord.	31-50.32	X	2,385,419.5833	Y		13,887,423.3248
P.C. Station	31-50.32	X	2,385,419.5833	Y		13,887,423.3248
P.T. Station	31-50.32	X	2,385,419.5833	Y		13,887,423.3248
C.C.	31-50.32	X	2,385,419.5833	Y		13,887,423.3248
Book	5 67° 10' 51.65" W					
Ahead	3 82° 13' 28.32" W					
Course from PT PLTR4-16 to PC PLTR4-17	S 82° 13' 28.32" W					Dist 52.9457
Curve PLTR4-17						
P.I. Station	59° 46' 48.25" E	X	2,385,326.1224	Y		13,887,408.8199
Delta	114° 35' 29.61" E	(RT)				
Degree	114					
Tangent	28.7397					
Length	59.0000					
Radius	5.1680					
External	4.8137					
Long Chord	6.5508					
Mid. Ord.	31-08.29	X	2,385,354.5978	Y		13,887,412.7081
P.C. Station	31-08.29	X	2,385,354.5978	Y		13,887,412.7081
P.T. Station	31-08.29	X	2,385,354.5978	Y		13,887,412.7081
C.C.	31-08.29	X	2,385,354.5978	Y		13,887,412.7081
Book	5 82° 13' 28.32" W					
Ahead	3 52° 20' 04.19" W					
Course from PT PLTR4-17 to PC PLTR4-18	S 22° 26' 40.07" W					Dist 403.6230
Curve PLTR4-18						
P.I. Station	114° 35' 29.61" E	X	2,385,122.4	Y		13,887,408.8199
Delta	114° 35' 29.61" E	(RT)				
Degree	114					

PLUM CREEK PARK TRAIL #4 - CONT'D

PLUM CREEK PARK TRAIL #5 - CONT'D

PLUM CREEK PARK TRAIL #5 - CONT'D

Curve Data

Curve P.LTR4-18	36° 27' 51" X	2,385,155.0980	Y	13,886,994.7960
P.I. Station	114° 35' 29.6125			
Delta	114° 35' 29.6125			
Length	104.0000			
Radius	50.0000			
External	29.7374			
Long Chord	29.7374			
Mid. Ord.	35.2159			
P.C. Station	35.2159	2,385,161.0516	Y	13,887,009.2086
P.T. Station	35.2159	2,385,142.0070	Y	13,886,986.3229
C.C.	35.2159	2,385,114.8391	Y	13,887,028.2980
Block	5 22° 28' 40.07" W			
Ahead	5 57° 05' 15.11" W			
Chord Bear	5 39° 45' 57.59" W			

Course from PT P.LTR4-18 to PC P.LTR4-19 S 57° 05' 15.11" W Dist 43.7056

Curve Data

Curve P.LTR4-19	37° 02' 28" X	2,385,091.5272	Y	13,886,953.6505
P.I. Station	56° 36' 32.7729			
Delta	229° 10' 59.2229			
Length	16.4250			
Radius	29.0641			
External	25.0000			
Long Chord	27.2129			
Mid. Ord.	4.1060			
P.C. Station	37.1492	2,385,105.3161	Y	13,886,962.5152
P.T. Station	37.1492	2,385,077.8619	Y	13,886,982.7633
C.C.	37.1492	2,385,091.7321	Y	13,886,983.5827
Block	5 57° 08' 15.11" W			
Ahead	5 89° 36' 27.00" W			
Chord Bear	5 89° 36' 27.00" W			

Course from PT P.LTR4-19 to PC P.LTR4-20 N 56° 18' 09.12" W Dist 230.7205

Curve Data

Curve P.LTR4-20	40° 26' 38" X	2,384,818.7292	Y	13,887,135.5668
P.I. Station	18° 20' 49.311			
Delta	11° 27' 32.95			
Length	180.7482			
Radius	500.0000			
External	6.4778			
Long Chord	159.4249			
Mid. Ord.	6.3950			
P.C. Station	39.4514	2,384,920.8646	Y	13,887,090.7688
P.T. Station	41.0514	2,384,608.5036	Y	13,886,674.7794
C.C.	41.0514			
Block	5 56° 18' 09.12" W			
Ahead	5 74° 38' 58.42" W			
Chord Bear	5 65° 28' 33.77" W			

Course from PT P.LTR4-20 to PC P.LTR4-21 N 74° 38' 58.42" W Dist 100.3008

PLUM CREEK PARK TRAIL #5

Beginning chain P.LTR5 description

Point PL248 X 2,384,641.2173 Y 13,885,978.0198 Stg 10-00.00

Course from PL248 to PC P.LTR5-1 S 67° 03' 28.8613" W Dist 25.4291

Curve Data

Curve P.LTR5-1	10° 35' 57" X	2,384,608.4566	Y	13,885,964.1528
P.I. Station	22° 56' 26.1668			
Delta	114° 35' 29.6125			
Length	10.1458			
Radius	50.0000			
External	1.0190			
Long Chord	10.1458			
Mid. Ord.	0.9886			
P.C. Station	10.2343	2,384,617.7897	Y	13,885,968.1075
P.T. Station	10.2343	2,384,617.7897	Y	13,885,968.1075
C.C.	10.2343	2,384,617.7897	Y	13,885,968.1075
Block	5 67° 03' 28.8613" W			
Ahead	5 44° 07' 02.6939" W			
Chord Bear	5 55° 35' 15.7733" W			

Course from PT P.LTR5-1 to PC P.LTR5-2 S 44° 07' 02.6939" W Dist 124.7982

Curve Data

Curve P.LTR5-2	11° 52' 09" X	2,384,499.3103	Y	13,885,851.5911
P.I. Station	47° 32' 29.6125			
Delta	114° 35' 29.6125			
Length	21.8459			
Radius	41.1922			
External	50.0000			
Long Chord	40.0821			
Mid. Ord.	4.5841			
P.C. Station	12.1114	2,384,514.5180	Y	13,885,867.2746
P.T. Station	12.1114	2,384,478.6222	Y	13,885,902.0811
C.C.	12.1114			
Block	5 44° 07' 02.6939" W			
Ahead	5 89° 40' 47.3992" W			
Chord Bear	5 67° 45' 07.8413" W			

Course from PT P.LTR5-2 to PC P.LTR5-3 N 88° 40' 47.3992" W Dist 107.4038

Curve Data

Curve P.LTR5-3	13° 01' 23.5144" X	2,384,317.4544	Y	13,885,855.7820
P.I. Station	11° 27' 32.95			
Delta	52.6545			
Length	500.0000			
Radius	104.9223			
External	102.7586			
Long Chord	102.7586			
Mid. Ord.	13.18.84			
P.C. Station	14.21.87	2,384,370.0949	Y	13,885,854.5689
P.T. Station	14.21.87	2,384,358.5753	Y	13,885,854.0031
C.C.	14.21.87	2,384,358.5753	Y	13,885,854.0031
Block	5 89° 40' 47.3992" W			
Ahead	5 85° 18' 50.8286" W			
Chord Bear	5 85° 18' 50.8286" W			

Course from PT P.LTR5-3 to PC P.LTR5-4 S 79° 17' 49.0563" W Dist 474.5594

Curve Data

Curve P.LTR5-4	19° 18' 65" X	2,383,779.4402	Y	13,885,754.0936
P.I. Station	78° 13' 59.2250			
Delta	229° 10' 59.2250			
Length	20.3360			
Radius	24.1020			
External	27.2203			
Long Chord	31.5422			
Mid. Ord.	18.98.32			
P.C. Station	19.32.46	2,383,799.4125	Y	13,885,751.8685
P.T. Station	19.32.46	2,383,804.0559	Y	13,885,731.7772
C.C.	19.32.46	2,383,804.0559	Y	13,885,731.7772
Block	5 79° 17' 49.0563" W			
Ahead	5 1° 04' 19.4731" W			
Chord Bear	5 40° 11' 04.2647" W			

Course from PT P.LTR5-4 to PC P.LTR5-5 S 1° 04' 19.4731" W Dist 201.5579

Curve Data

Curve P.LTR5-5	21° 49' 04" X	2,383,775.0076	Y	13,885,517.2266
P.I. Station	52° 00' 38.6182			
Delta	229° 10' 59.2250			
Length	25.6247			
Radius	27.0513			
External	4.1615			
Long Chord	23.7259			
Mid. Ord.	21.34.01			
P.C. Station	21.61.07	2,383,775.0076	Y	13,885,517.2266
P.T. Station	21.61.07	2,383,800.2843	Y	13,885,531.7809
C.C.	21.61.07			
Block	5 50° 56' 19.1451" W			
Ahead	5 29° 35' 39.8560" E			
Chord Bear	5 29° 35' 39.8560" E			

Course from PT P.LTR5-5 to PC P.LTR5-6 S 60° 56' 19.1451" E Dist 102.0527

Curve Data

Curve P.LTR5-6	22° 49' 25" X	2,383,882.7023	Y	13,885,457.3796
P.I. Station	7° 00' 44.8062			
Delta	57° 17' 44.8062			
Length	6.1291			
Radius	100.0000			
External	12.2428			
Long Chord	6.1291			
Mid. Ord.	0.1873			
P.C. Station	22.75.37	2,383,877.3449	Y	13,885,460.3567
P.T. Station	22.75.37	2,383,882.7023	Y	13,885,457.3796
C.C.	22.75.37	2,383,882.7023	Y	13,885,457.3796
Block	5 50° 56' 19.1451" W			
Ahead	5 57° 55' 28.5089" E			
Chord Bear	5 57° 55' 28.5089" E			

Course from PT P.LTR5-6 to PC P.LTR5-7 S 53° 55' 28.5089" E Dist 102.9917

Curve Data

Curve P.LTR5-7	24° 10' 75" X	2,383,997.0806	Y	13,885,374.0470
P.I. Station	35° 53' 57.8070			
Delta	57° 17' 44.8062			
Length	44.8062			
Radius	82.553			
External	5.1163			
Long Chord	61.6394			
Mid. Ord.	23.41.02			
P.C. Station	23.41.02	2,383,970.8978	Y	13,885,393.1230
P.T. Station	23.41.02	2,384,007.1044	Y	13,885,343.2419
C.C.	23.41.02	2,383,912.0121	Y	13,885,312.2993
Block	5 53° 55' 28.5089" E			
Ahead	5 18° 01' 28.7019" E			
Chord Bear	5 35° 58' 27.6054" E			

Course from PT P.LTR5-7 to PC P.LTR5-8 S 18° 01' 28.7019" E Dist 39.1077

Curve Data

Curve P.LTR5-8	25° 02' 14" X	2,384,026.0179	Y	13,885,285.1171
P.I. Station	34° 49' 53.3727			
Delta	57° 17' 44.8062			
Length	22.0168			
Radius	43.3420			
External	100.0000			
Long Chord	4.2332			
Mid. Ord.	3.1390			
P.C. Station	25.23.46	2,384,019.2054	Y	13,885,306.0534
P.T. Station	25.23.46	2,384,023.4078	Y	13,885,293.2556
C.C.	25.23.46	2,383,924.1130	Y	13,885,275.1108
Block	5 18° 01' 28.7019" E			
Ahead	5 5° 36' 29.0128" E			
Chord Bear	5 5° 36' 29.0128" E			

Course from PT P.LTR5-8 to PC P.LTR5-9 S 6° 48' 30.6763" W Dist 119.4328

Curve Data

Curve P.LTR5-9	26° 53' 61" X	2,384,007.9791	Y	13,885,134.0302
P.I. Station	12° 13' 36.5197			
Delta	57° 17' 44.8062			
Length	20.1102			
Radius	100.0000			
External	0.5719			
Long Chord	21.2992			
Mid. Ord.	0.5687			
P.C. Station	26.64.29	2,384,009.2488	Y	13,885,144.6651
P.T. Station	26.64.29	2,383,901.4346	Y	13,885,123.9053
C.C.	26.64.29	2,383,909.9541	Y	13,885,156.5203
Block	5 5° 02' 06.8720" W			
Ahead	5 12° 55' 18.7741" W			
Chord Bear	5 12° 55' 18.7741" W			

Course from PT P.LTR5-9 to PC P.LTR5-10 S 19° 02' 06.8720" W Dist 253.5978

Curve Data

Curve P.LTR5-10	29° 45' 65" X	2,383,912.7032	Y	13,884,857.8808
P.I. Station	20° 15' 48.6182			
Delta	17° 81.49			
Length	35.2299			
Radius	100.0000			
External	1.5745			
Long Chord	35.0719			
Mid. Ord.	29.12784			
P.C. Station	29.63.09	2,383,918.5135	Y	13,884,874.7215
P.T. Station	29.63.09	2,383,901.4346	Y	13,884,844.0826
C.C.	29.63.09	2,383,823.9817	Y	13,884,907.3365
Block	5 19° 02' 06.8720" W			
Ahead	5 39° 04' 15.5480" W			
Chord Bear	5 29° 08' 11.2100" W			

Course from PT P.LTR5-10 to PC P.LTR5-11 S 39° 14' 15.5481" W Dist 60.5091

Curve Data

Curve P.LTR5-11	30° 44' 00" X	2,383,850.2582	Y	13,884,781.4182
P.I. Station	23° 03' 26.6107			
Delta	57° 17' 44.8062			
Length	20.3974			
Radius	40.2427			
External	102.0590			
Long Chord	39.9717			
Mid. Ord.	2.0175			
P.C. Station	30.23.60	2,383,863.1603	Y	13,884,787.2166

PLUM CREEK PARK TRAIL #8 - CONT'D

Curve Data

Curve P.LTR8-4	20+86.61	X	2,382,365.9258	Y	13,885,458.4002
P.I. Station	49+39.06	(RT)			
Delta	114° 39' 06.22"				
Length	29.812				
Tangent	43.1384				
Radius	50.0000				
External	5.0578				
Long Chord	41.8673				
Mid. Ord.	20.4392				
P.C. Station	21+06.76	X	2,382,387.1318	Y	13,885,449.3634
P.T. Station	21+36.57	X	2,382,345.2823	Y	13,885,448.1433
C.C.	21+06.76	X	2,382,367.5303	Y	13,885,403.3658
Back	N 66° 59' 08.67" W				
Chord	S 88° 19' 48.22" W				
Ahead	S 63° 34' 45.11" W				

Course from PT P.LTR8-4 to P.LTR8-5 S 63° 34' 45.11" W Dist 39.4403

Point PL245 X 2,382,309.9615 Y 13,885,430.5939 S 74° 34' 25.57" W Dist 70.9300

Ending chain P.LTR8 description

PLUM CREEK PARK TRAIL #9

Beginning chain P.LTR9 description

Point PL246 X 2,382,457.2016 Y 13,885,217.8891 S 59° 46' 05.93" W Dist 247.9572

Course from PL246 to PC P.LTR9-1 S 59° 46' 05.93" W Dist 247.9572

Curve Data

Curve P.LTR9-1	12+76.76	X	2,382,218.0790	Y	13,885,078.5393
P.I. Station	37° 08' 21.66"	(LT)			
Delta	57° 17' 44.81"				
Length	28.8062				
Tangent	36.0937				
Radius	100.0000				
External	5.5362				
Long Chord	3.9074				
Mid. Ord.	12+41.96	X	2,382,242.9875	Y	13,885,093.0432
P.C. Station	12+04.05	X	2,382,204.7203	Y	13,885,002.9435
P.T. Station	12+33.91	X	2,382,253.3173	Y	13,885,008.8435
C.C.	12+04.05	X			
Back	S 59° 46' 05.93" W				
Chord	S 27° 37' 44.27" W				
Ahead	S 43° 41' 55.10" W				

Course from PT P.LTR9-1 to PC P.LTR9-2 S 27° 37' 44.27" W Dist 122.9321

Curve Data

Curve P.LTR9-2	14+50.57	X	2,382,136.7246	Y	13,884,923.1140
P.I. Station	26° 39' 24.55"	(RT)			
Delta	57° 17' 24.81"				
Length	46.5248				
Radius	100.0000				
External	2.7681				
Long Chord	46.1085				
Mid. Ord.	14+25.93	X	2,382,147.7113	Y	13,884,944.1038
P.C. Station	14+12.51	X	2,382,117.4887	Y	13,884,909.2844
P.T. Station	14+73.51	X	2,382,059.1144	Y	13,884,990.4782
C.C.	14+12.51	X			
Back	S 54° 17' 08.82" W				
Chord	S 40° 57' 26.55" W				
Ahead	S 54° 17' 08.82" W				

Course from PT P.LTR9-2 to PC P.LTR9-3 S 54° 17' 08.82" W Dist 98.8902

Curve Data

Curve P.LTR9-3	15+03.72	X	2,382,019.8825	Y	13,884,839.1105
P.I. Station	34° 04' 37.75"	(RT)			
Delta	57° 17' 44.81"				
Length	21.3235				
Radius	100.0000				
External	42.0177				
Long Chord	41.5085				
Mid. Ord.	15+14.42	X	2,382,037.1959	Y	13,884,851.5580
P.C. Station	15+14.42	X	2,381,998.9975	Y	13,884,834.8083
P.T. Station	15+72.40	X	2,381,978.8216	Y	13,884,932.7518
C.C.	15+14.42	X			
Back	S 54° 17' 08.82" W				
Chord	S 68° 19' 22.69" W				
Ahead	S 68° 19' 22.69" W				

Course from PT P.LTR9-3 to PC P.LTR9-4 S 78° 21' 36.57" W Dist 347.8439

Curve Data

Curve P.LTR9-4	19+73.03	X	2,381,647.7547	Y	13,884,762.4539
P.I. Station	12° 17' 54.84"	(RT)			
Delta	57° 17' 44.81"				
Length	20.4629				
Radius	100.0000				
External	0.5187				
Long Chord	21.4239				
Mid. Ord.	19+82.75	X	2,381,658.3070	Y	13,884,764.6277
P.C. Station	19+82.75	X	2,381,638.9815	Y	13,884,762.5718
P.T. Station	19+82.75	X	2,381,638.9815	Y	13,884,862.5712
C.C.	19+82.75	X			
Back	S 78° 21' 36.57" W				
Chord	S 84° 30' 33.99" W				
Ahead	S 84° 30' 33.99" W				

Course from PT P.LTR9-4 to PC P.LTR9-5 N 89° 20' 28.59" W Dist 135.1099

PLUM CREEK PARK TRAIL #9 - CONT'D

Curve Data

Curve P.LTR9-5	21+31.79	X	2,381,488.9225	Y	13,884,764.2801
P.I. Station	14° 45' 03.07"	(RT)			
Delta	57° 17' 44.81"				
Length	12.9589				
Tangent	25.7742				
Radius	100.0000				
External	20.9252				
Long Chord	20.8292				
Mid. Ord.	21+18.85	X	2,381,501.8805	Y	13,884,764.1311
P.C. Station	21+18.85	X	2,381,478.4305	Y	13,884,767.7271
P.T. Station	21+44.61	X	2,381,503.0302	Y	13,884,884.1245
C.C.	21+18.85	X			
Back	N 89° 20' 28.59" W				
Chord	N 81° 57' 27.06" W				
Ahead	N 81° 57' 27.06" W				

Course from PT P.LTR9-5 to PC P.LTR9-6 N 74° 34' 25.57" W Dist 70.9300

Curve Data

Curve P.LTR9-6	22+42.23	X	2,381,382.3213	Y	13,884,793.6955
P.I. Station	56° 11' 51.64"	(LT)			
Delta	114° 35' 29.61"				
Length	26.6962				
Tangent	29.6114				
Radius	59.0000				
External	6.6806				
Long Chord	47.0994				
Mid. Ord.	22+15.54	X	2,381,409.0559	Y	13,884,786.5943
P.C. Station	22+15.54	X	2,381,394.7559	Y	13,884,776.2617
P.T. Station	22+64.38	X	2,381,394.7559	Y	13,884,738.3957
C.C.	22+15.54	X			
Back	N 74° 34' 25.57" W				
Chord	S 49° 13' 42.79" W				
Ahead	S 77° 19' 38.61" W				

Course from PT P.LTR9-6 to PC P.LTR9-7 S 49° 13' 42.79" W Dist 92.2534

Curve Data

Curve P.LTR9-7	23+74.19	X	2,381,279.0918	Y	13,884,704.6799
P.I. Station	39° 41' 45.80"	(LT)			
Delta	57° 17' 44.81"				
Length	17.3593				
Tangent	34.3759				
Radius	100.0000				
External	1.4855				
Long Chord	34.2059				
Mid. Ord.	23+56.83	X	2,381,292.2383	Y	13,884,716.0162
P.C. Station	23+56.83	X	2,381,270.5351	Y	13,884,689.5760
P.T. Station	23+91.21	X	2,381,357.5427	Y	13,884,640.2842
C.C.	23+56.83	X			
Back	S 49° 13' 42.79" W				
Chord	S 39° 31' 37.31" W				
Ahead	S 39° 31' 37.31" W				

Course from PT P.LTR9-7 to PC P.LTR9-8 S 29° 31' 57.31" W Dist 43.3889

Curve Data

Curve P.LTR9-8	24+52.21	X	2,381,240.4669	Y	13,884,636.5012
P.I. Station	38° 48' 25.68"	(RT)			
Delta	114° 35' 29.61"				
Length	17.6114				
Tangent	33.8659				
Radius	100.0000				
External	30.0000				
Long Chord	33.2222				
Mid. Ord.	24+34.60	X	2,381,249.1479	Y	13,884,651.8244
P.C. Station	24+34.60	X	2,381,224.0992	Y	13,884,624.4794
P.T. Station	24+68.46	X	2,381,205.0442	Y	13,884,676.4704
C.C.	24+34.60	X			
Back	S 29° 31' 57.31" W				
Chord	S 68° 20' 23.99" W				
Ahead	S 48° 56' 10.66" W				

Course from PT P.LTR9-8 to PL247 S 68° 20' 23.99" W Dist 34.2872

Point PL247 X 2,381,192.2329 Y 13,884,617.3455 S 70° 02.75 Dist 25.02.75

Ending chain P.LTR9 description

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NOTE:
 THE HORIZONTAL ALIGNMENT DATA LISTED FOR TRAITS IS FOR INFORMATIONAL PURPOSES ONLY, AS REQUIRED THE TRAIL MAY BE FIELD FIT IN ORDER TO AVOID EXISTING FEATURES.

TEXAS DEPARTMENT OF TRANSPORTATION
 TEXAS LICENSED PROFESSIONAL ENGINEER
 BRIAN W. DODSON
 90526

DESIGNED BY: [Signature] DATE: 1/14/08
 CHECKED BY: [Signature] DATE: 1/14/08
 APPROVED BY: [Signature] DATE: 1/14/08

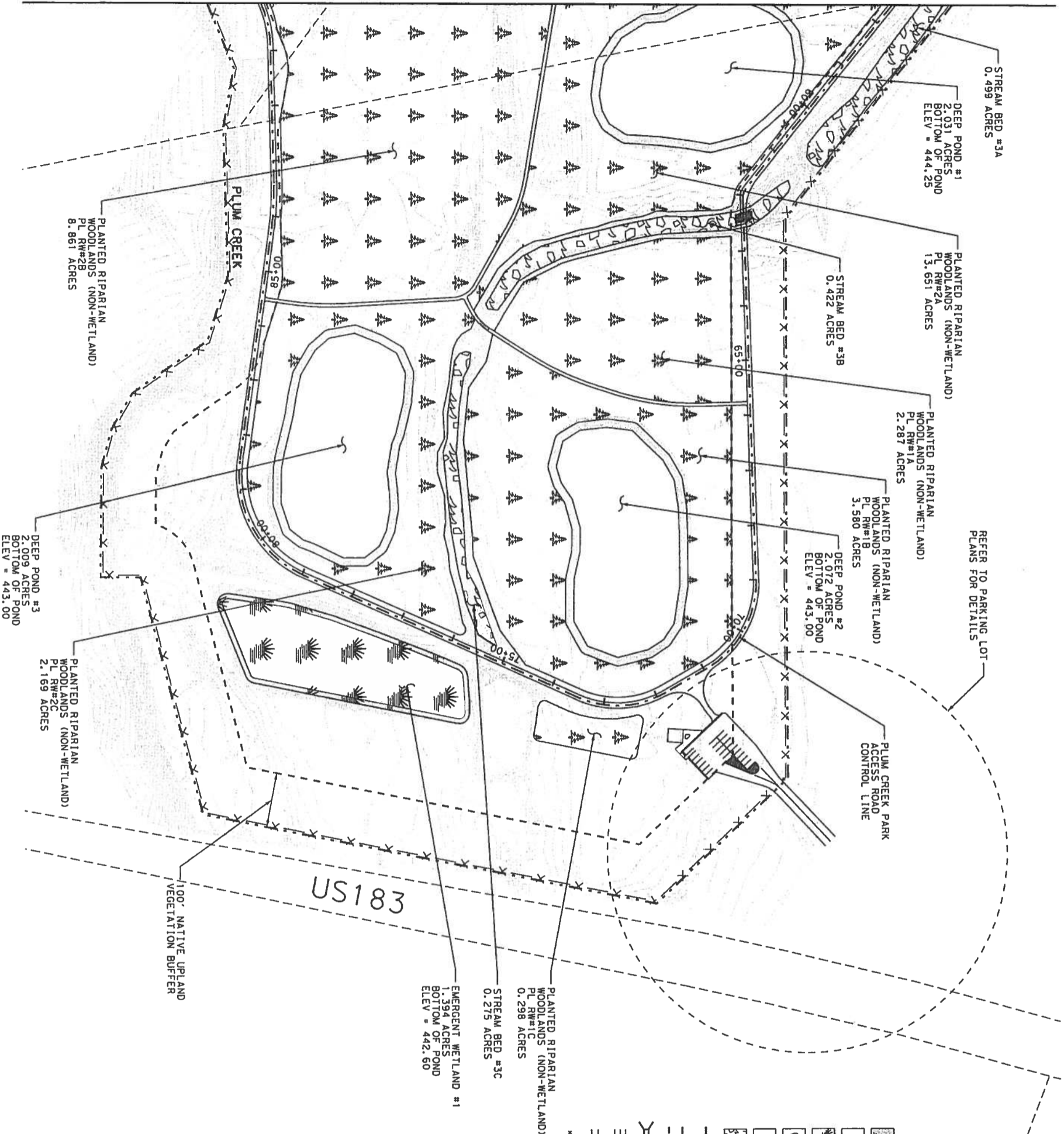
PROJECT: PLUM CREEK MITIGATION PARALLEL ALIGNMENT DATA TRAILS #8 & #9

SCALE: NONE

SHEET 7 OF 7 SHEETS

DESIGNED BY	CHECKED BY	DATE
APPROVED BY	DATE	PROJECT
FED. AID PROJECT NO.	SHEET NAME	COUNT
STATE	DISTRICT	COUNTY
TX	AUS	
COUNT	SECT	JOB
		HIG

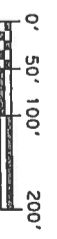
MATCHLINE SEE SHEET 2 OF 5



REFER TO PARKING LOT PLANS FOR DETAILS

- LEGEND**
- AQUATIC RESOURCE TYPES
 - PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
 - PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
 - EMERGENT WETLANDS (< 18 INCHES DEPTH)
 - FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
 - DEEP POND AREAS (12 TO 5 FT DEPTH)
 - STREAMBED / FLOODPLAIN CHANNELS (INUNDATED)
 - PROPOSED PLUM CREEK STREAM AND WETLAND MITIGATION SITE
 - 100 FT NATIVE UPLAND VEGETATION BUFFER
 - BERMS
 - ACCESS ROADS
 - TRAILS
 - PROPOSED FENCE

- NOTES**
1. REFER TO DWG NO PP3 FOR GENERAL NOTES.
 2. REFER TO DWG NO PP15 - PP21 FOR PLUM CREEK ACCESS ROAD HORIZONTAL ALIGNMENT DATA.
 3. ACCESS ROAD WIDTH SHALL BE 10' UNLESS OTHERWISE NOTED.
 4. TRAIL WIDTHS SHALL BE 6'.
 5. FOR DETAILS OF ACCESS ROAD LOW LEVEL CROSSINGS, SEE ACCESS ROAD DETAIL SHEETS.
 6. FOR DETAILS OF TRAIL LOW LEVEL CROSSINGS, SEE TRAIL CROSSINGS DETAIL SHEETS.
 7. TRAILS TO BE CONSTRUCTED USING GIVEN COORDINATES, AS BEING BEGIN LOCATIONS OF TRAIL. BEGIN AND END POINTS, CONSTRUCTION BEGINS CAN BE FIELD FIT TO COLLECT NATURAL GROUND AND BE RE-ALIGNED TO COVER ANY EXISTING TREES AND GROUND INEEN. APPROVED BY THE FIELD ENGINEER.



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TEXAS DEPARTMENT OF TRANSPORTATION
 SECTION 5.1, SECTION 16
 PLUM CREEK MITIGATION PARK
 PROPOSED SITE

SCALE: 1" = 200'

SHEET 1 OF 5 SHEETS

DESIGNED BY: JDB	CHECKED BY: JDB	DATE: 10-15-07
DRAWN BY: JDB	CHECKED BY: JDB	DATE: 10-15-07
APPROVED BY: JDB	DATE: 01-11-08	PROJECT NO:
FED. AID PROJECT NO:	SHEET NAME:	DWG IN:
61-86-2X(X)08001	PP2:	
STATE:	DISTRICT:	COUNTY:
TX:	AUS:	
COMT:	SECT:	JOB:
		HIGHWAY:
		SH131

REV	DATE	BY	DESCRIPTION
0	01/17/08	BMD	APPROVED FOR CONST



- LEGEND**
- AQUATIC RESOURCE TYPES
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
 - PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
 - EMERGENT WETLANDS (< 18 INCHES DEPTH)
 - FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
 - DEEP POND AREAS (2 TO 5 FT DEPTH)
 - STREAMBED / TEMPORARILY INUNDATED FLOODPLAIN CHANNELS
 - PROPOSED PLUM CREEK STREAM AND WETLAND MITIGATION SITE
 - 100 FT NATIVE UPLAND VEGETATION BUFFER
 - BERMS
 - ACCESS ROADS
 - TRAILS
 - PROPOSED FENCE

NOTES

1. FOR NOTES SEE SHEET 1 OF 5.

MATCHLINE SEE SHEET 3 OF 5



MATCHLINE SEE SHEET 1 OF 5



SCALE: 1" = 200'

SHEET 2 OF 5 SHEET

DESIGNED BY: JDB	CHECKED BY: JDB	DATE: 11-11-08
DRAWN BY: JDB	CHECKED BY: BMD	DATE: 01-17-08
APPROVED BY: BMD	DATE: 01-17-08	PROJECT: PLUM CREEK MITIGATION PA
FED AID PROJECT NO: 86-2XXD0001	SHEET NAME: 6	

STATE DISTRICT COUNTY

TX AUS H

CONTRACT SECT JOB

BRIAN W. DODDSON
90526
PROFESSIONAL ENGINEER

TEAM MEMBER
DRAFTER

TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION PA
PROPOSED SITE

1/14

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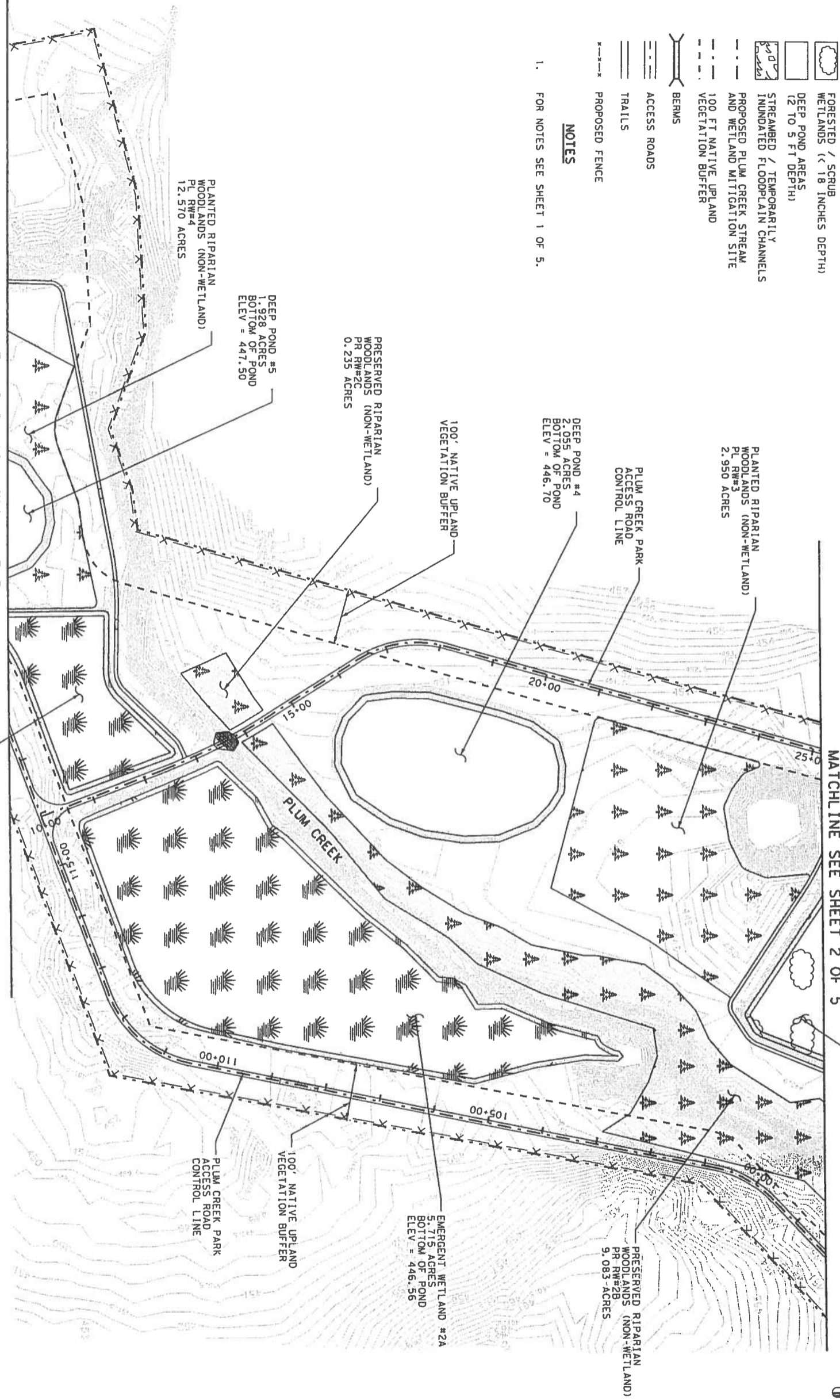
REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST

LEGEND

- AQUATIC RESOURCE TYPES
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
 - PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
 - EMERGENT WETLANDS (< 18 INCHES DEPTH)
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 - 100 FT NATIVE UPLAND VEGETATION BUFFER
 - BERMS
 - ACCESS ROADS
 - TRAILS
 - PROPOSED FENCE

NOTES

- FOR NOTES SEE SHEET 1 OF 5.

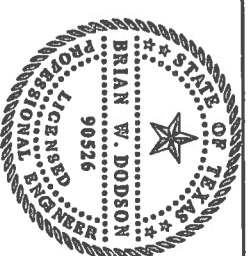


MATCHLINE SEE SHEET 4 OF 5

MATCHLINE SEE SHEET 2 OF 5



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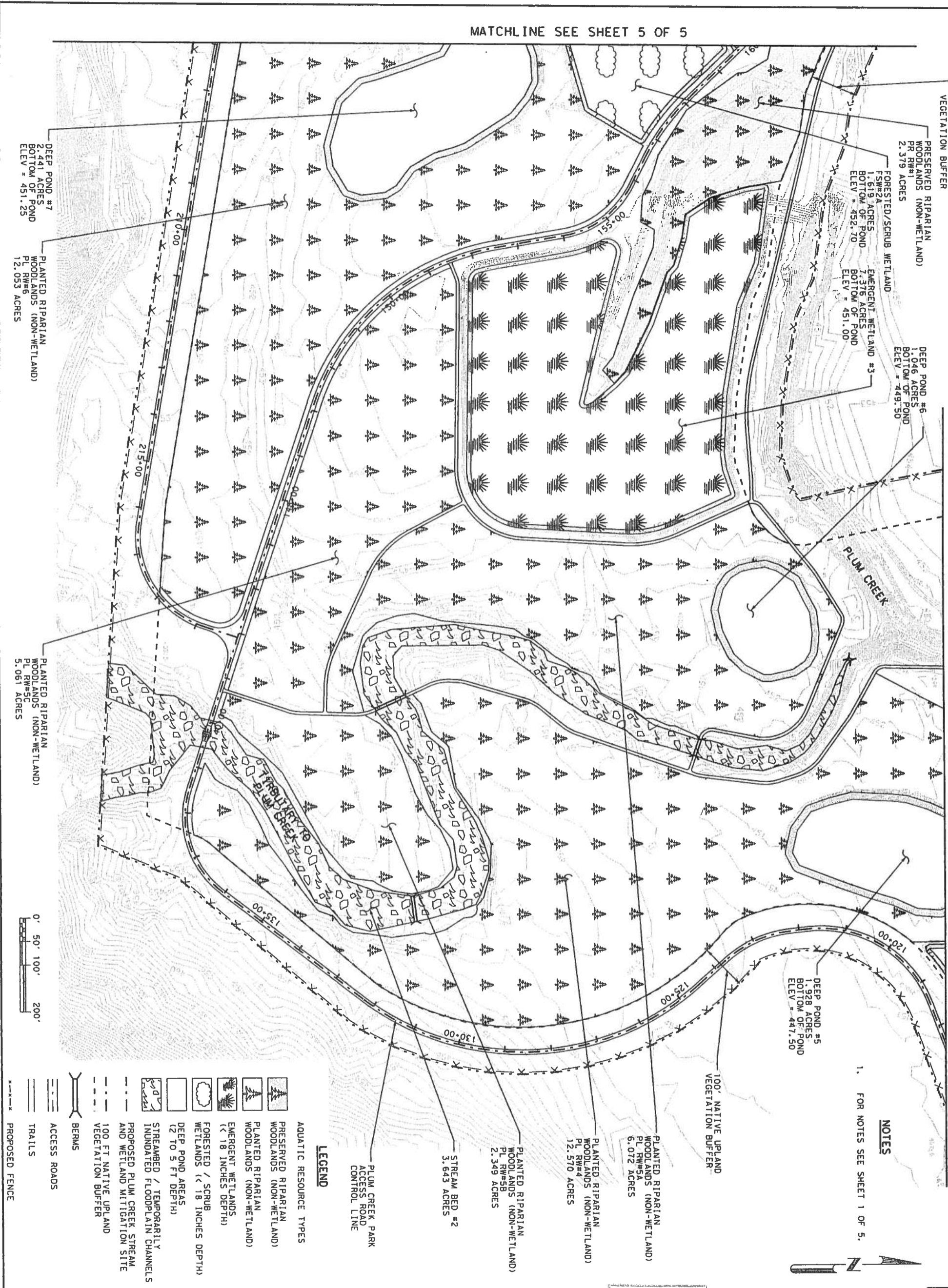


TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5, SECTION 1
PLUM CREEK MITIGATION PROJECT
PROPOSED SITE

SCALE: 1" = 200'

SHEET 3 OF 5 SHEET

DESIGNED BY	JOB	CHECKED BY	DATE
DRAWN BY	DATE	PROJECT	DATE
FED. FED. AID PROJECT NO.	SHEET NAME	STATE	DISTRICT
6	86-2XXX0001	TX	AUS
COUNT	SECT	JOB	



NOTES

1. FOR NOTES SEE SHEET 1 OF 5.

LEGEND

- AQUATIC RESOURCE TYPES**
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
 - PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
 - EMERGENT WETLANDS (< 18 INCHES DEPTH)
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 - DEEP POND AREAS (2 TO 5 FT DEPTH)
 - STREAMBED / TEMPORARILY INUNDATED FLOODPLAIN CHANNELS
 - PROPOSED PLUM CREEK STREAM AND WETLAND MITIGATION SITE
 - 100 FT NATIVE UPLAND VEGETATION BUFFER
 - BERMS
 - ACCESS ROADS
 - TRAILS
 - PROPOSED FENCE

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
BRIAN W. DODSON
 90926

TEAM MEMBERS
 DANA MARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
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SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION PROJECT
 PROPOSED SITE

SCALE: 1" = 200'

SHEET 4 OF 5 SHEETS

DESIGNED BY	CHKD BY	DATE
DRAWN BY	CHKD BY	DATE
APPROVED BY	DATE	PROJECT
FED. AID PROJECT NO.	SHEET NAME	
68-2XX0001		
STATE	DISTRICT	COUNTY
TX	AUS	
COUNT	SECT	JOB

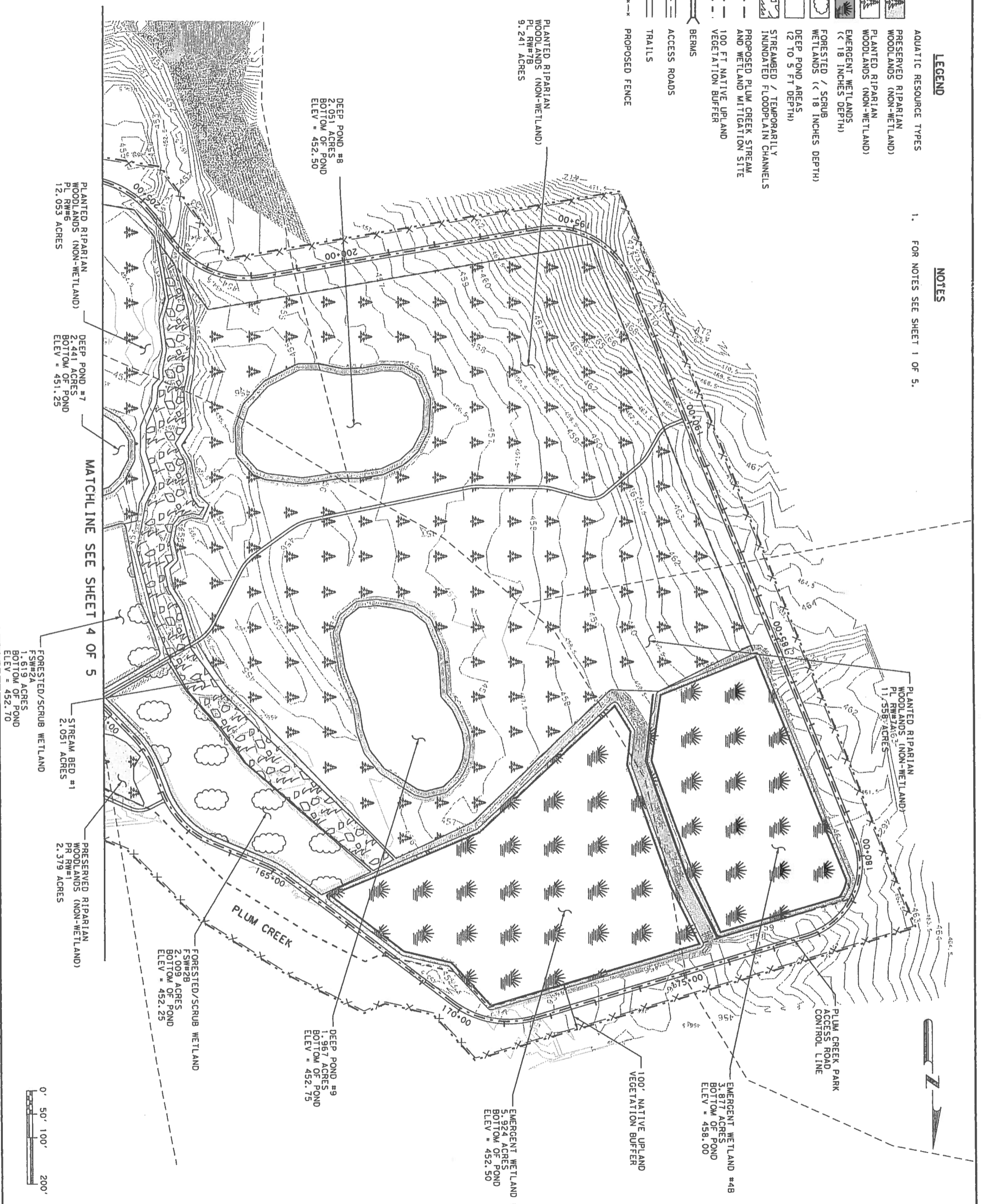
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REV	DATE	BY	DESCRIPTION
0	01/11/08	BWD	APPROVED FOR CONST

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST

NOTES
1. FOR NOTES SEE SHEET 1 OF 5.

- LEGEND**
- AQUATIC RESOURCE TYPES**
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
 - PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
 - EMERGENT WETLANDS (< 18 INCHES DEPTH)
 - FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
 - DEEP POND AREAS (2 TO 5 FT DEPTH)
 - STREAMBED / TEMPORARILY INUNDATED FLOODPLAIN CHANNELS
 - PROPOSED PLUM CREEK STREAM AND WETLAND MITIGATION SITE
 - 100 FT NATIVE UPLAND VEGETATION BUFFER
 - BERMS
 - ACCESS ROADS
 - TRAILS
 - PROPOSED FENCE



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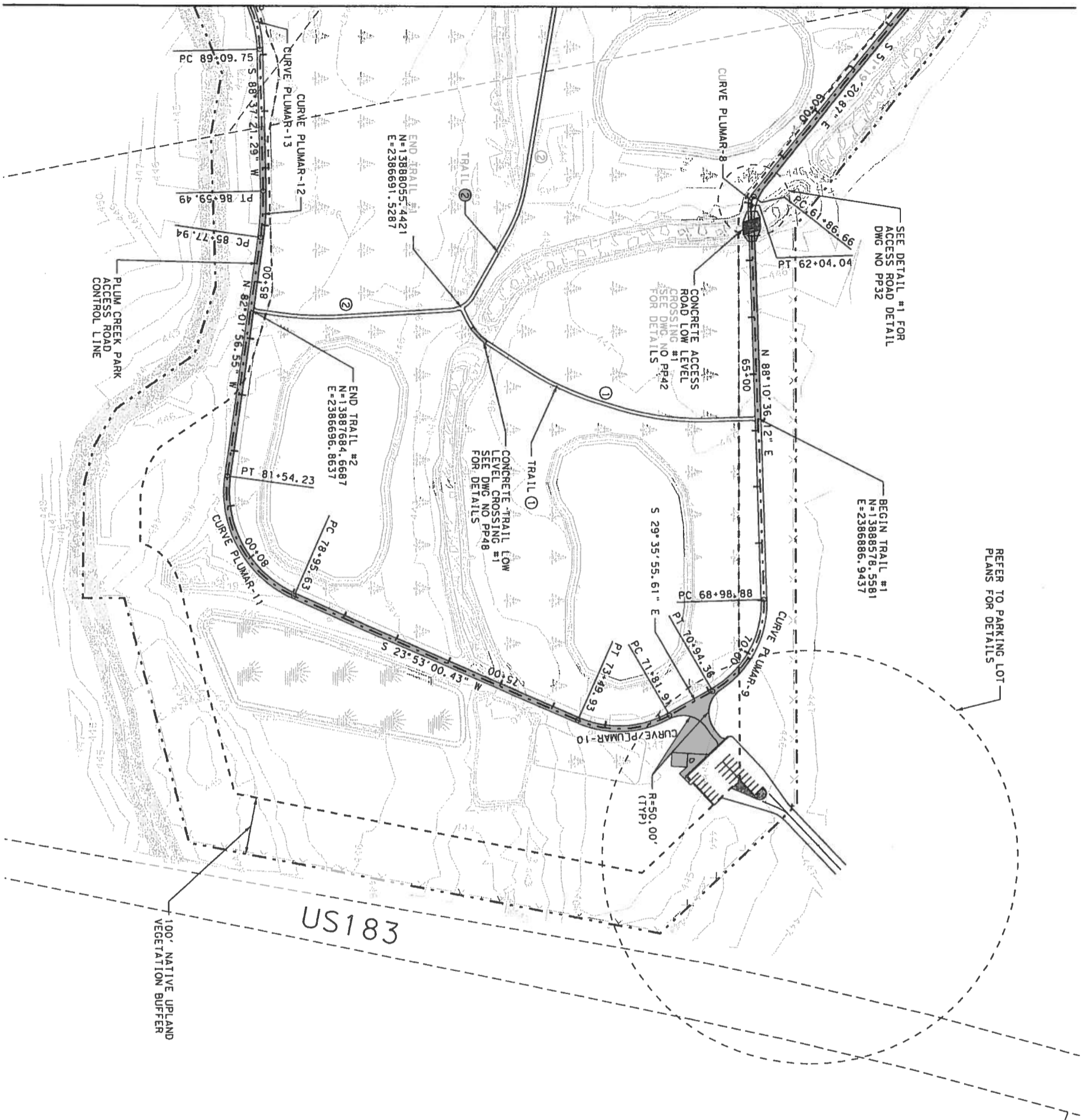


TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION P.
PROPOSED SITE

SHEET 5 OF 5 SHEET

SCALE: 1" = 200'

DESIGNED BY	JOB	CHECKED BY	DATE
DRAWN BY	DATE	APPROVED BY	DATE
FED. AID PROJECT NO.	SHEET NAME	STATE	DISTRICT
6	86-2XX0B001	AUS	
TX	SECT	CONTRACT	JOB

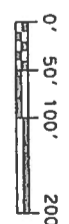


LEGEND

- AQUATIC RESOURCE TYPES
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
- PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
- EMERGENT WETLANDS (< 18 INCHES DEPTH)
- FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
- DEEP POND AREAS (2 TO 5 FT DEPTH)
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- 100 FT NATIVE UPLAND VEGETATION BUFFER
- BERMS
- ACCESS ROADS
- TRAILS
- PROPOSED FENCE

NOTES

1. REFER TO DWG NO PP3 FOR GENERAL NOTES.
2. REFER TO DWG NO PP15 - PP21 FOR PLUM CREEK ACCESS ROAD HORIZONTAL ALIGNMENT DATA.
3. ACCESS ROAD WIDTH SHALL BE 10' UNLESS OTHERWISE NOTED.
4. TRAIL WIDTHS SHALL BE 6'.
5. FOR DETAILS OF ACCESS ROAD LOW LEVEL CROSSINGS SEE ACCESS ROAD DETAIL SHEETS.
6. FOR DETAILS OF TRAIL LOW LEVEL CROSSINGS, SEE TRAIL CROSSINGS DETAIL SHEETS.
7. TRAILS TO BE CONSTRUCTED USING GIVEN COORDINATES AS BEGIN AND END LOCATIONS OF TRAIL. BETWEEN BEGIN AND END POINTS, CONSTRUCTION OF TRAIL CAN BE FIELD FIT TO FOLLOW NATURAL GROUND AND BE RE-ALIGNED TO AVOID ANY EXISTING TREES AND GROUND COVER AS APPROVED BY THE FIELD ENGINEER.



SCALE: 1" = 200'

DESIGNED BY: JWB
CHECKED BY: JWB
DATE: 11/11/08

DRAWN BY: JWB
CHECKED BY: JWB
DATE: 01-11-08

FED. AID PROJECT NO: 86-2XXDB001
SHEET NAME: 5

STATE: TX
DISTRICT: AUS
COUNTY: HUNT

BRIAN W. DODSON
LICENSED PROFESSIONAL ENGINEER
90526

TEAM MEMBER
DWM-HARRIS

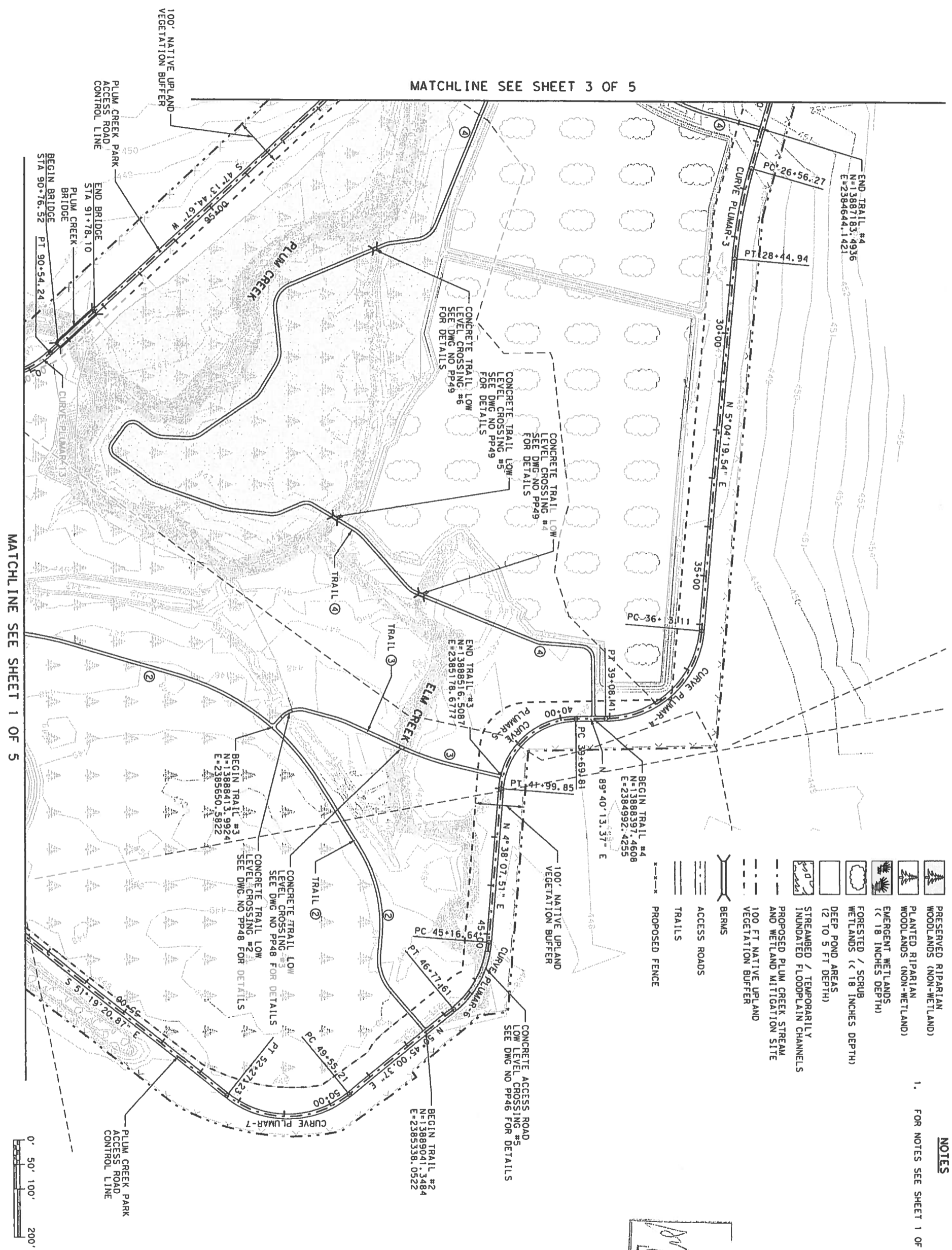
TEXAS DEPARTMENT OF TRANSPORTATION
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SEGMENT 5 - SECTION 1A
PLUM CREEK MITIGATION PA
ACCESS ROAD AND TRAILS

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JAN 29 2009
One Star Infrastructure

REV	DATE	BY	DESCRIPTION

MATCHLINE SEE SHEET 3 OF 5



MATCHLINE SEE SHEET 1 OF 5

LEGEND

- AQUATIC RESOURCE TYPES
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
- PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
- EMERGENT WETLANDS (< 18 INCHES DEPTH)
- FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
- DEEP POND AREAS (2 TO 5 FT DEPTH)
- STREAMBED / TEMPORARILY INUNDATED FLOODPLAIN CHANNELS
- PROPOSED PLUM CREEK STREAM AND WETLAND MITIGATION SITE
- 100 FT NATIVE UPLAND VEGETATION BUFFER
- BERMS
- ACCESS ROADS
- TRAILS
- PROPOSED FENCE

NOTES

1. FOR NOTES SEE SHEET 1 OF 5.



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TEAM MEMBER
DANIEL HARRIS
TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5, SECTION 1
PLUM CREEK MITIGATION P
ACCESS ROAD AND TRAIL

SCALE: 1" = 200'

SHEET 2 OF 5 SHEET	
DESIGNED BY: JDB	CHECKED BY: JDB
DRAWN BY: JDB	DATE: 01-11-08
APPROVED BY: BMD	DATE: 01-11-08
FED. AID PROJECT NO.	SHEET NAME
6 86-2XXDB001	
STATE	DISTRICT
TX	AUS
CONTRACT	JOB

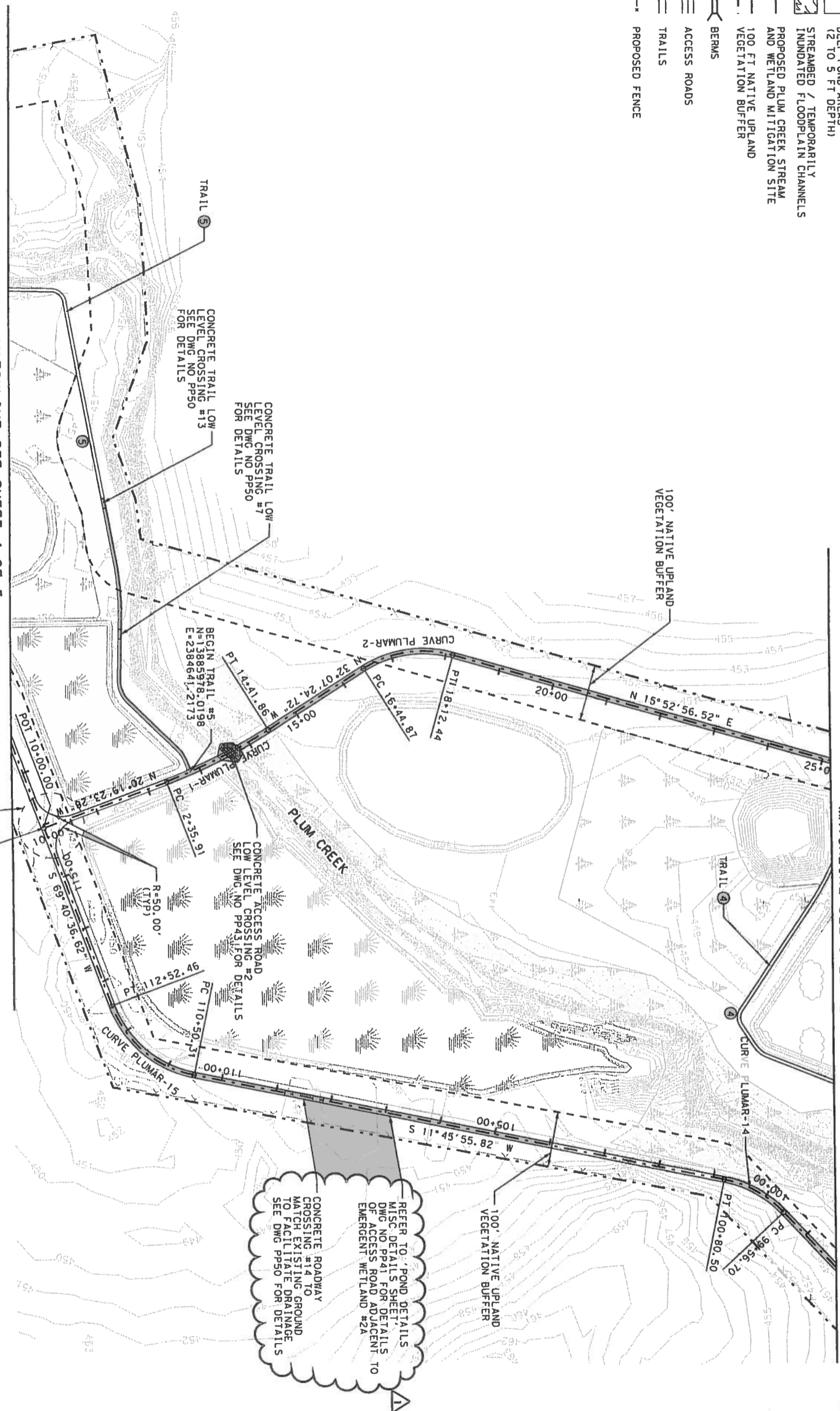
REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR COMS

LEGEND

- AQUATIC RESOURCE TYPES
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
- PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
- EMERGENT WETLANDS (< 18 INCHES DEPTH)
- FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
- DEEP POND AREAS (2 TO 5 FT DEPTH)
- STREAMBED / TEMPORARILY INUNDATED FLOODPLAIN CHANNELS AND WETLAND MITIGATION SITE
- 100 FT NATIVE UPLAND VEGETATION BUFFER
- BERMS
- ACCESS ROADS
- TRAILS
- PROPOSED FENCE

NOTES

1. FOR NOTES SEE SHEET 1 OF 5.



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD/NOG	716 AFC

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CONSTRUCTION
MAY MAR 03 2008
Lone Star Infrastructure



Brian Dodson
TEAM MEMBER
DWM/HARRIS

TEAMS DEPARTMENT OF TRANSPORT
SECTION 5, SECTION 1
PLUM CREEK MITIGATION P
ACCESS ROAD AND TRAIL

SCALE: 1" = 200'

SHEET 3 OF 5 SHEET			
DESIGNED BY	CHECKED BY	DATE	DATE
APPROVED BY	DATE	01-11-08	PROJECT
6	86-2XXDB001		SHEET NAME
STATE	DISTRICT		
TX	AUS		
CDMT	SECT		JOB

LEGEND

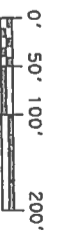
- AQUATIC RESOURCE TYPES
- PRESERVED RIPARIAN WOODLANDS (NON-WETLAND)
- PLANTED RIPARIAN WOODLANDS (NON-WETLAND)
- EMERGENT WETLANDS (< 18 INCHES DEPTH)
- FORESTED / SCRUB WETLANDS (< 18 INCHES DEPTH)
- DEEP POND AREAS (2 TO 5 FT DEPTH)
- STREAMBED / TEMPORARILY INUNDATED FLOODPLAIN CHANNELS
- PROPOSED PLUM CREEK STREAM AND WETLAND MITIGATION SITE
- 100 FT NATIVE UPLAND VEGETATION BUFFER
- BERMS
- ACCESS ROADS
- TRAILS
- PROPOSED FENCE

NOTES

1. FOR NOTES SEE SHEET 1 OF 5.



MATCHLINE SEE SHEET 4 OF 5



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST

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CONSTRUCTION
JAN 29 2008
Lone Star Infrastructure



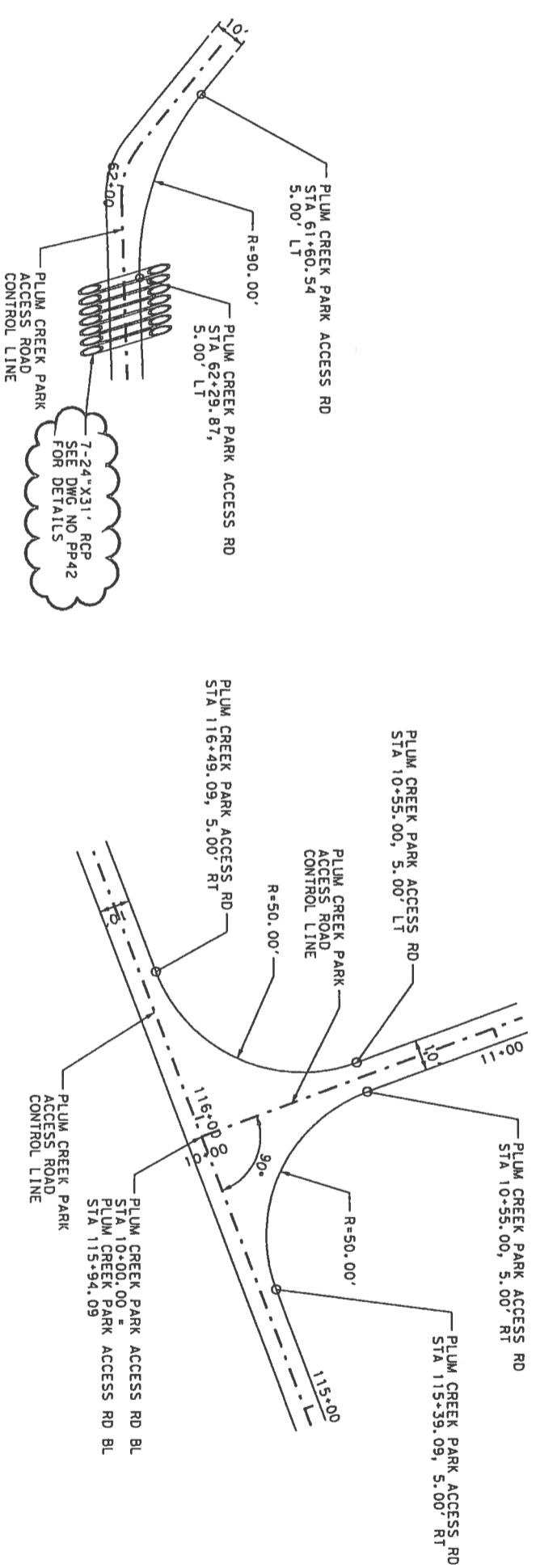
TEXAS DEPARTMENT OF TRANSPORTATION
TEAM MEMBER
DRAWN BY: BMD
CHECKED BY: BMD
DATE: 01-11-08
PROJECT: PLUM CREEK MITIGATION PA
ACCESS ROAD AND TRAILS

SCALE: 1" = 200'

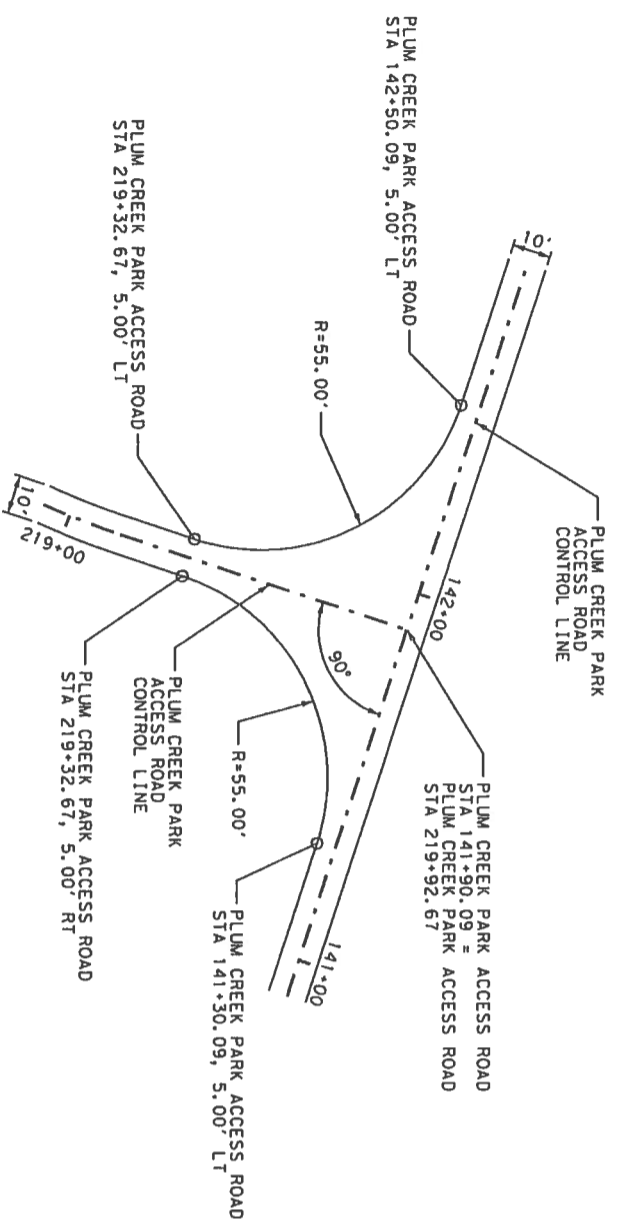
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DESIGNED BY: BMD	CHECKED BY: BMD
DRAWN BY: BMD	DATE: 01-11-08
FED. AID PROJECT NO.	SHEET NAME
6 - 86-2XX09001	
STATE: TX	DISTRICT: AUS
COUNTY: H	JOB: H

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	03/25/08	BMD	NO. 779 AFC

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 CONSTRUCTION
 1997 MAR 29 2008
 Lone Star Infrastructure



DETAIL #2



DETAIL #3

BRIAN W. DODSON
90526
PROFESSIONAL ENGINEER
STATE OF TEXAS

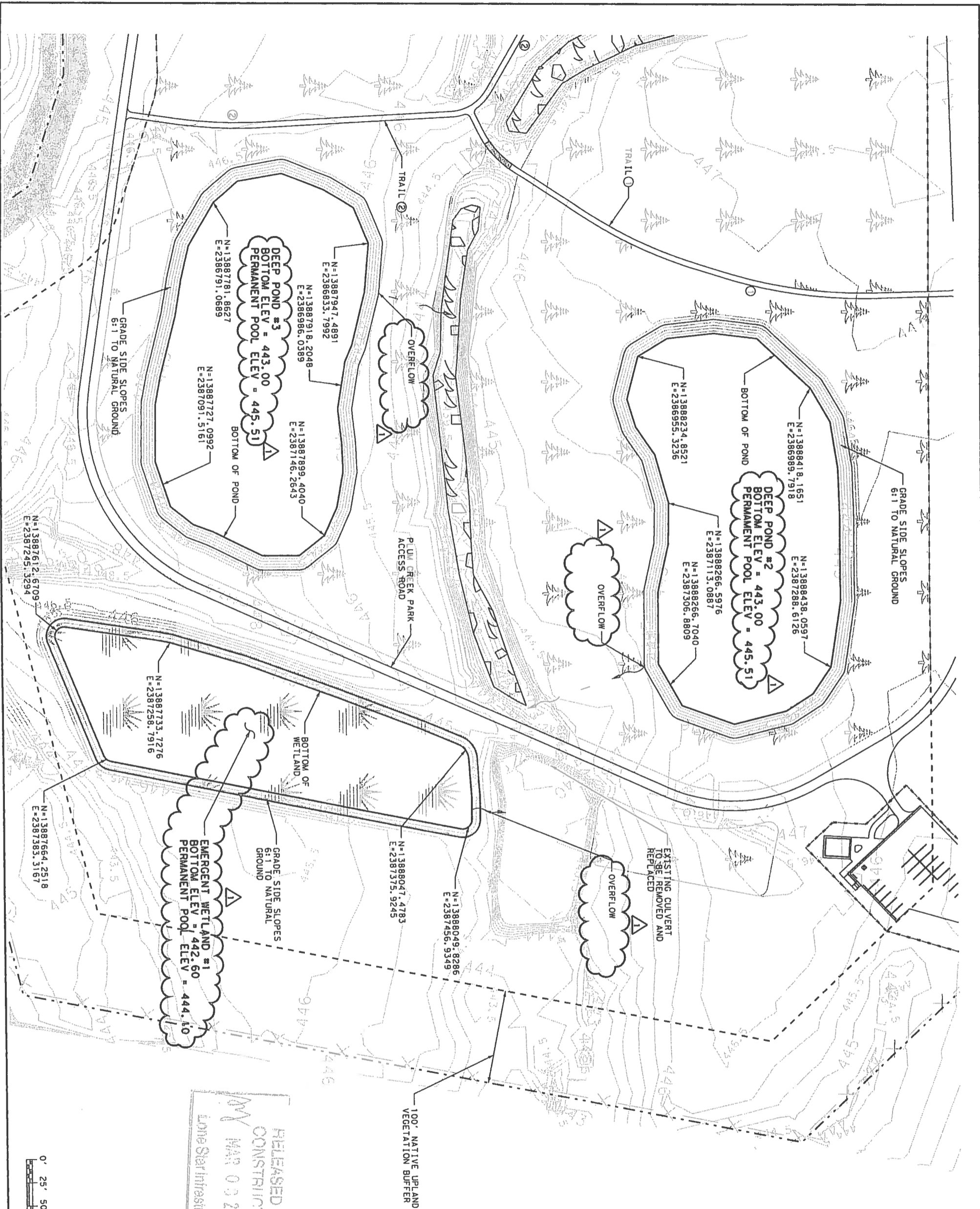
TEAM LEADER
 DRAINAGE
 TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION II
 PLUM CREEK MITIGATION PA
 ACCESS ROAD
 INTERSECTION DETAILS

SCALE: 1" = 50'
 SHEET 1 OF 1 SHEET
 DESIGNED BY JOB CHECKED BY BMD DATE 0
 DRAWN BY JOB CHECKED BY BMD DATE 0
 APPROVED BY BMD DATE 01-11-08 PROJECT
 FEDERAL AID PROJECT NO. SHEET NAME
 6 86-2XXDB001
 STATE DISTRICT COUNTY
 TX AUS
 CONT SECT JOB H

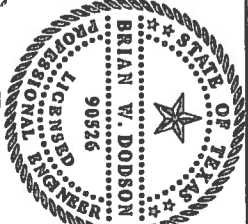
REV	DATE	BY	DESCRIPTION
0	01/11/08	BWD	APPROVED FOR CONSTRUCTION
1	02/27/08	BWD	NO. 776 AFC

NOTES

1. PONDS SHALL BE EXCAVATED TO A DEPTH THAT WILL ALLOW A MINIMUM POND DEPTH OF 18". THE ELEVATIONS AND DEPTHS SPECIFIED ON THE PLANS ARE APPROXIMATE. COORDINATES FOR PONDS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED IN ORDER TO AVOID EXISTING FEATURES.
2. AT THE CONTRACTOR'S OPTION THE POND DEPTH OR PORTION OF THE POND MAY BE INCREASED TO A MAXIMUM OF 5 FT DEPTH.
3. FOR LEGEND SEE ACCESS ROAD AND TRAILS SHEET.
4. EXCAVATED AREAS DO NOT NEED TO BE UNIFORMALLY LEVEL. MICROTOPOGRAPHY IN A WETLAND IS BENEFICIAL TO WETLAND VEGETATION ESTABLISHMENT.
5. ALL PONDS SHALL BE GRADED TO NATURAL GROUND USING A 6:1 SLOPE FROM THE BOTTOM OF THE POND.



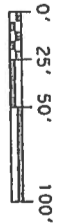
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 Lone Star Infrastructure



TEAM LEADER
 DAWID BERNARD
 TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5 - SECTION 16
 PLUM CREEK MITIGATION PA
 POND DETAILS
 DP#2, DP#3 & EW#1

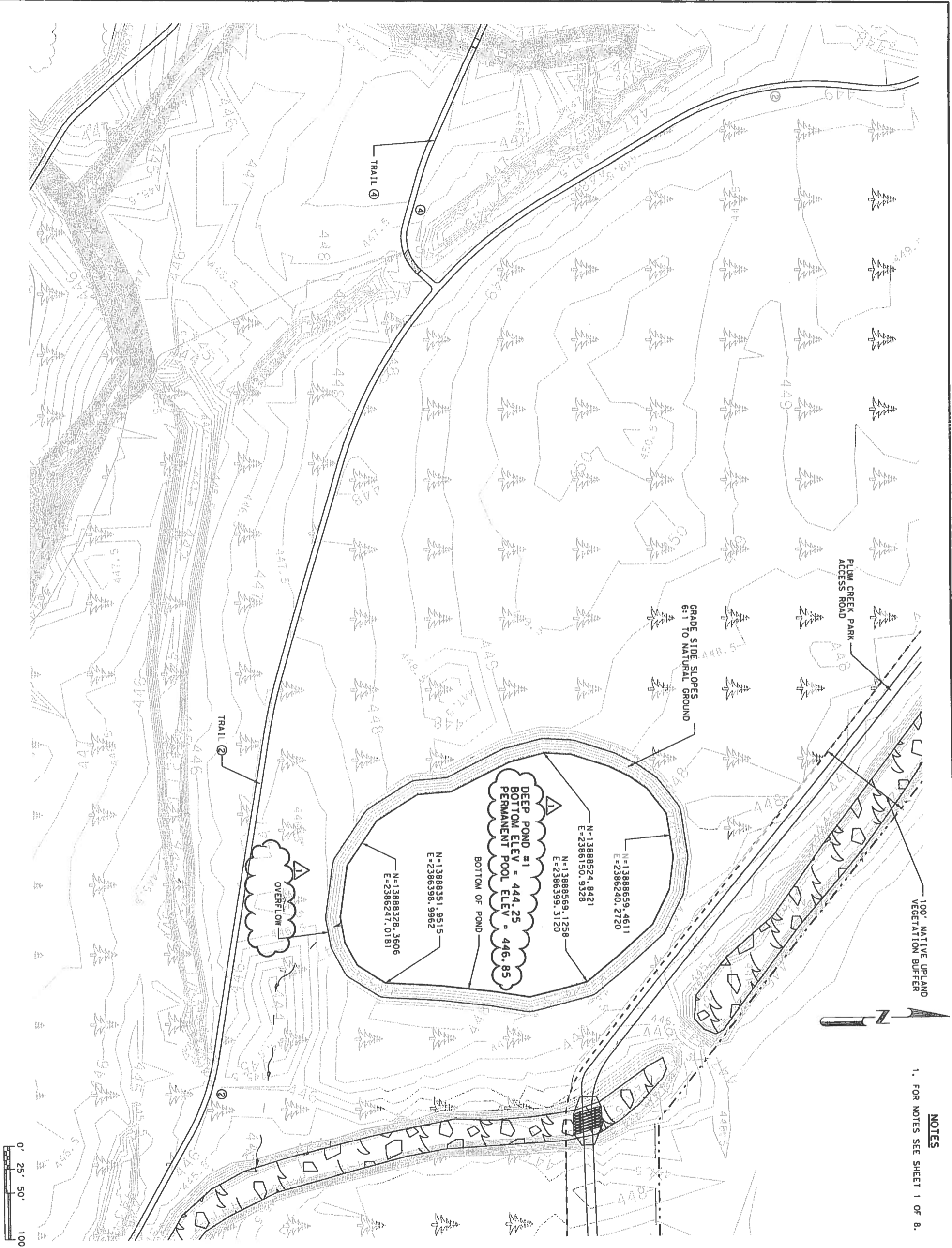
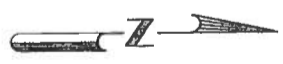
SCALE: 1" = 100'

SHEET 1 OF 8 SHEET			
DESIGNED BY	CHECKED BY	DATE	DATE
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APPROVED BY	DATE	PROJECT	
FED AID PROJECT NO.	SHEET NAME		
6	86-2XXDB001		
STATE	DISTRICT	COUNTY	
TX	AJIS		
CONT	SECT	JOB	IN



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	DOC 776 AEC

NOTES
1. FOR NOTES SEE SHEET 1 OF 8.



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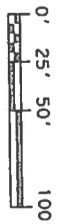


TEXAS DEPARTMENT OF TRANSPORTATION
SEAGENT 5 - SECTION 1
PLUM CREEK MITIGATION POND DETAILS
DP#1

SCALE: 1" = 100'

SHEET 2 OF 8 SHEET

DESIGNED BY	JOB	CHECKED BY	DATE
DRAWN BY	JOB	CHECKED BY	DATE
APPROVED BY	BMD	DATE	01-11-08
FED. FED. AID PROJECT NO.	SHEET NAME		
6	86-2XXDB001		
STATE	DISTRICT	COUNTY	
TX	AUS		
CONTRACT	SECT	JOB	



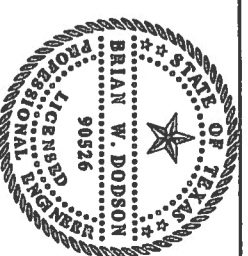
REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONSTRUCTION
1	02/27/08	BMD	776 AFC



1. FOR NOTES SEE SHEET 1 OF 8.

NOTES

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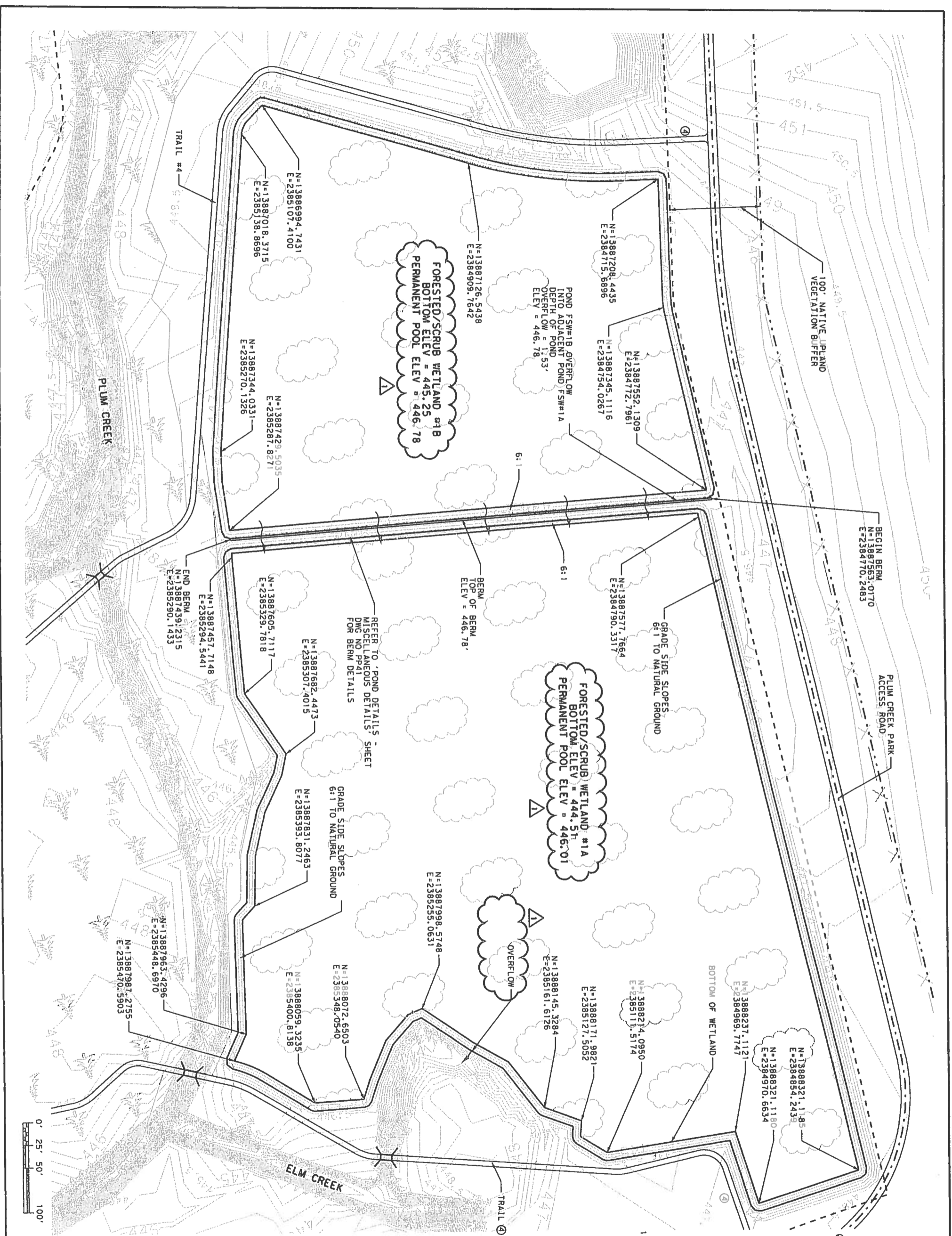
TEXAS DEPARTMENT OF TRANSPORTATION
 TEAM MEMBER
 DRAUGHTSMAN
 SEGMENT 5, SECTION 1
 PLUM CREEK MITIGATION POND DETAILS
 FSW#1A & FSW#1B

SCALE: 1" = 100'

SHEET 3 OF 8 SHEETS

REVISION NO.	DATE	BY	DESCRIPTION
1	01-11-08	BMD	APPROVED FOR CONSTRUCTION
2	02-27-08	BMD	776 AFC

STATE	DISTRICT	COMMITTEE
TX	AUS	
CONTRACT	SECTION	JOB



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMH	APPROVED FOR CONST
1	02/27/08	BMH	REVISED TTB AFC



NOTES
1. FOR NOTES SEE SHEET 1 OF

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Lone Star Infrastructure

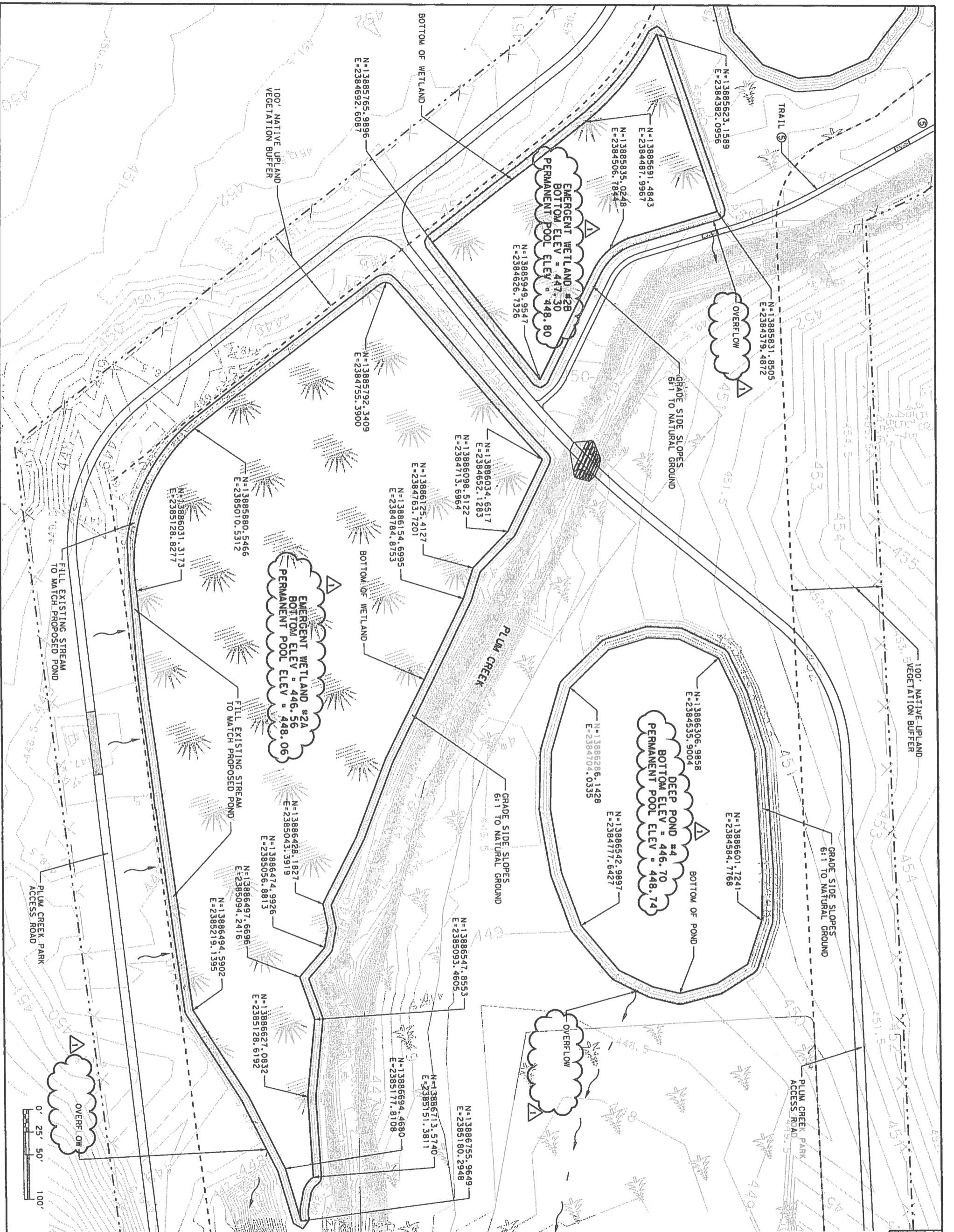


Brian W. Dodson
90526
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

TEAM LEADER
DWM/HDB/RS
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TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 16
PLUM CREEK MITIGATION PA
POND DETAILS
EW#2A, EW#2B & DP#4

SCALE: 1" = 100'

DESIGNED BY	DATE	CHECKED BY	DATE
DMH	01-11-08	DMH	01-11-08
PROJECT	DATE	SHEET NAME	
86-2XXDB001			
STATE	DISTRICT	COUNTY	JOB
TX	AUS		HI
CONTRACT	SECTION	JOB	HI

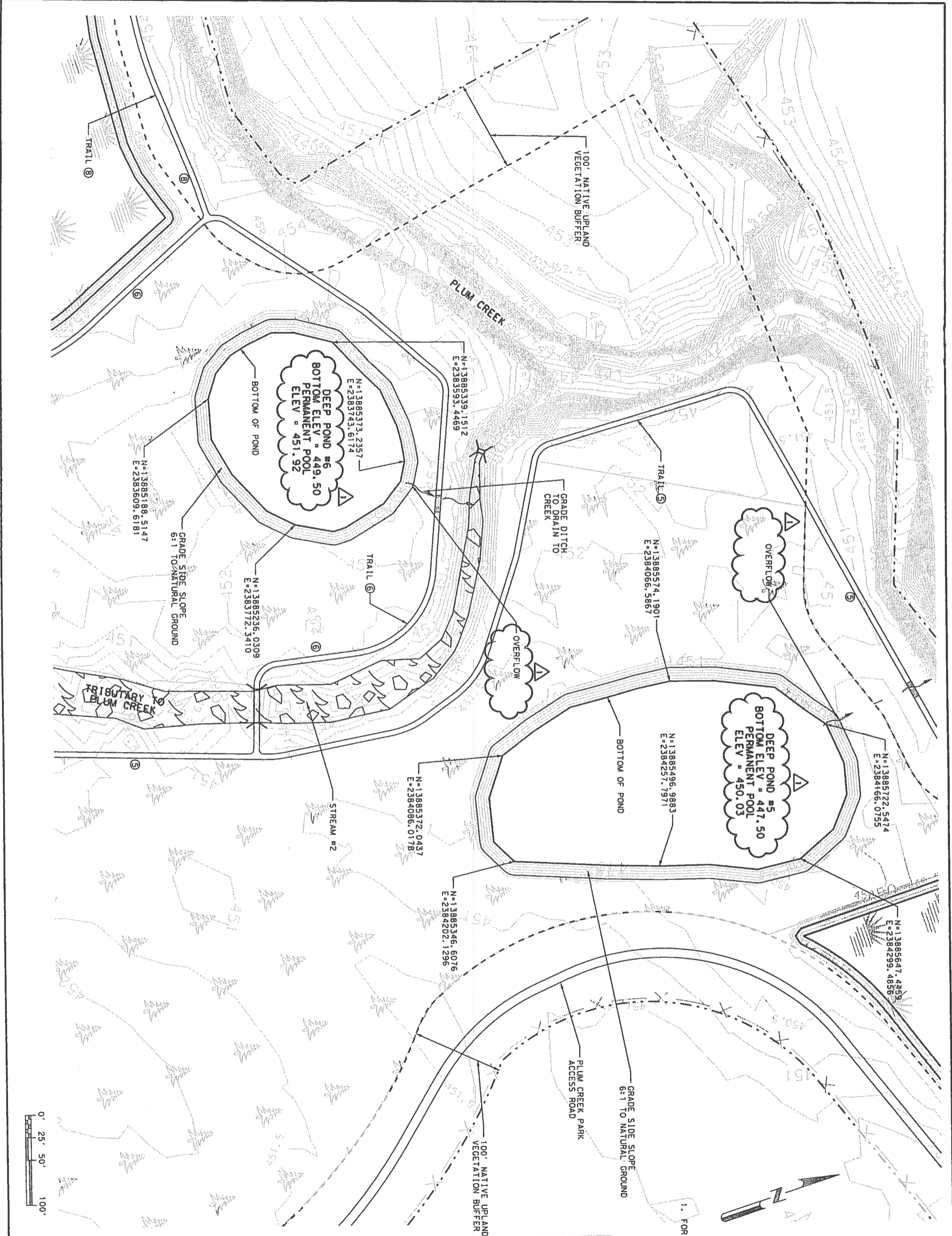


REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	716 A/C

1. FOR NOTES SEE SHEET 1 OF 8.

NOTES

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CONSTRUCTION
MAY 03 2000
Louisiana State Infrastructure

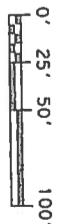


Brian W. Dodson
 TEAM MEMBER
 DRAINAGE ENGINEER
 TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION 1
 PLUM CREEK MITIGATION POND DETAILS
 DP#5 & DP#6

SCALE: 1" = 100'

SHEET 5 OF 8 SHEET

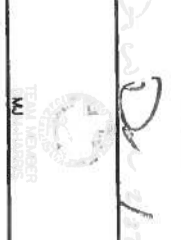
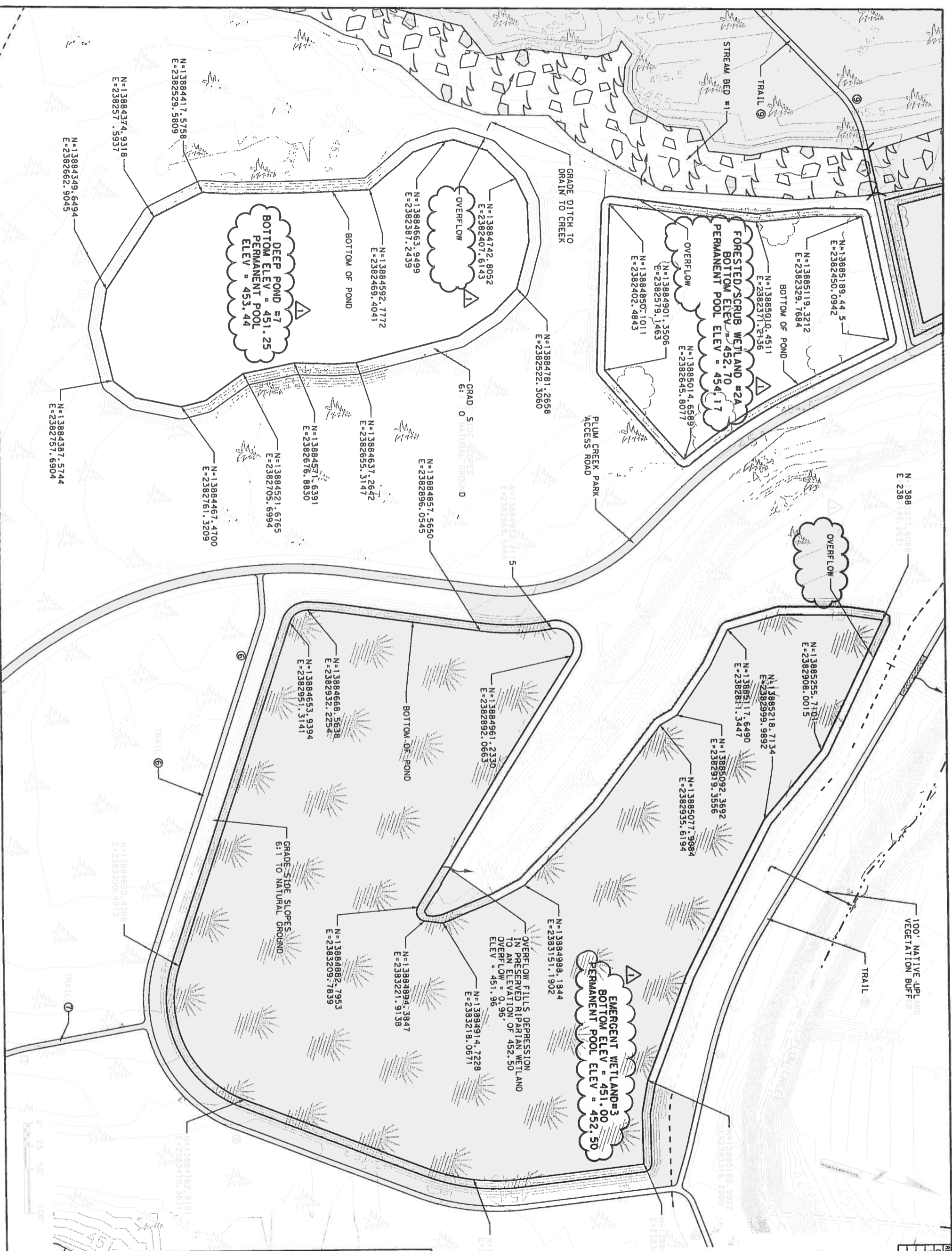
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DRAWN BY	CHECKED BY	DATE
APPROVED BY	DATE	PROJECT
FED. AID PROJECT NO.	SHEET NAME	
6	86-2XXDB001	
STATE	DISTRICT	COUNTY
TX	AUS	JOB
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REV	DATE	BY
0	01/11/08 BMD	
1	02/27/08 BMD	

NOTES
1. FOR NOTES SEE SHEET 1 OF

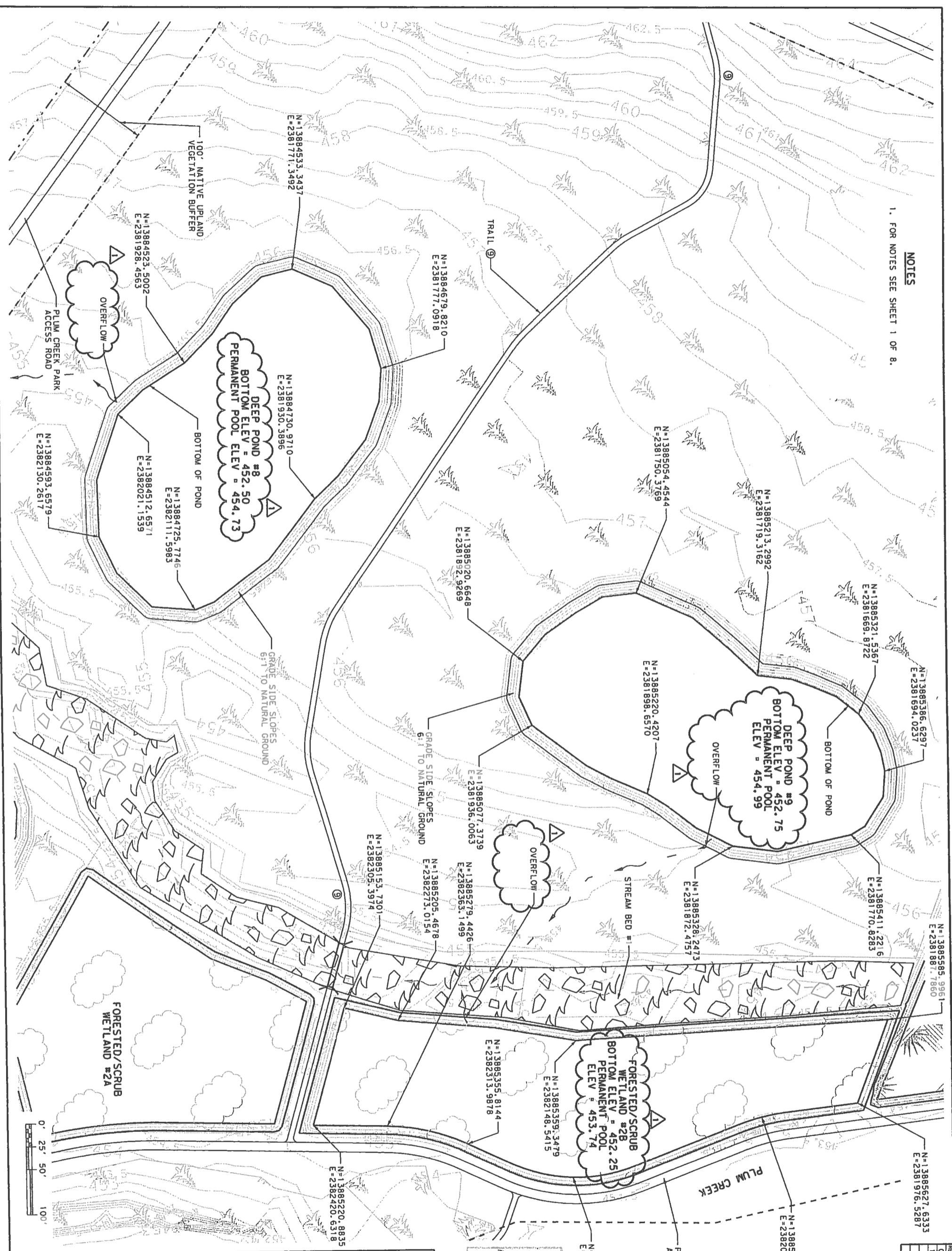
RELEASED FOR
CONSTRUCTION
MAY MAR 03 2008
Lone Star Infrastructure



STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
SECTION 5 - SECTION 1
PLUM CREEK MITIGATION POND DETAILS
Dp#7, Ew#3 & FSW#2A

DESIGNED BY: JDB	CHECKED BY: DR
DRAWN BY: JDB	CHECKED BY: BMD
APPROVED BY: BMD	DATE: 01-11-08
FEI/ FEO AID PROJECT NO:	SHEET NAME:
6 86-2XX0001	
STATE:	DISTRICT:
TX	AUS
CNCT	JOB:

NOTES
1. FOR NOTES SEE SHEET 1 OF 8.



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	716 A.F.C.

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MAR 03 2008
W
Star Infrastructure



Brian W. Dodson
TEAM LEADER
TEAM ADDRESS
TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5.1 SECTION 1
PLUM CREEK MITIGATION POND DETAILS
DP#8, DP#9 & FSW#28

SCALE: 1" = 100'

SHEET 7 OF 8 SHEE

DESIGNED BY	JOB	CHECKED BY	DATE
DRAWN BY <td></td> <td>CHECKED BY <td></td> </td>		CHECKED BY <td></td>	
APPROVED BY <td></td> <td>DATE</td> <td></td>		DATE	
FED. AID PROJECT NO.		SHEET NAME	
STATE	DISTRICT	COUNT	
TX	AUS		
	SECT	JOB	

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMC	PREPARED FROM CONDOT
1	02/27/08	BMC	REVISED PER COMMENTS

NOTES
1. FOR NOTES SEE SHEET 1 OF 8.



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MAR 03 2008
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TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5 - SECTION 1E
PLUM CREEK MITIGATION PLAN
POND DETAILS
EWA4A & EWA4B

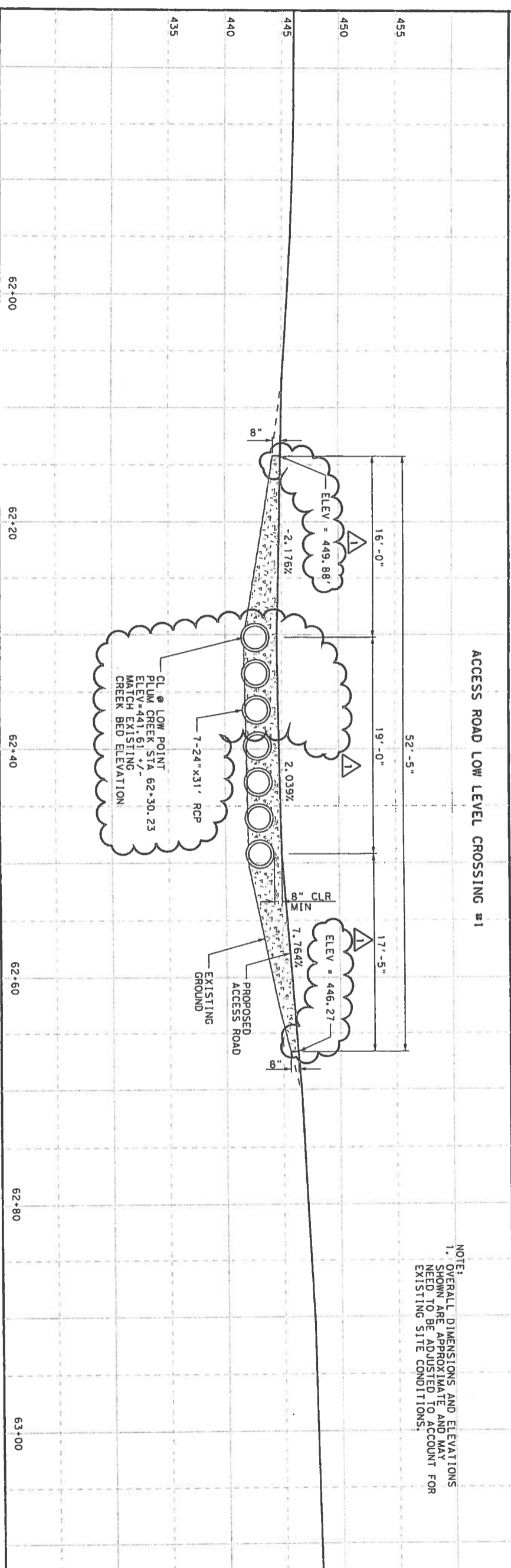
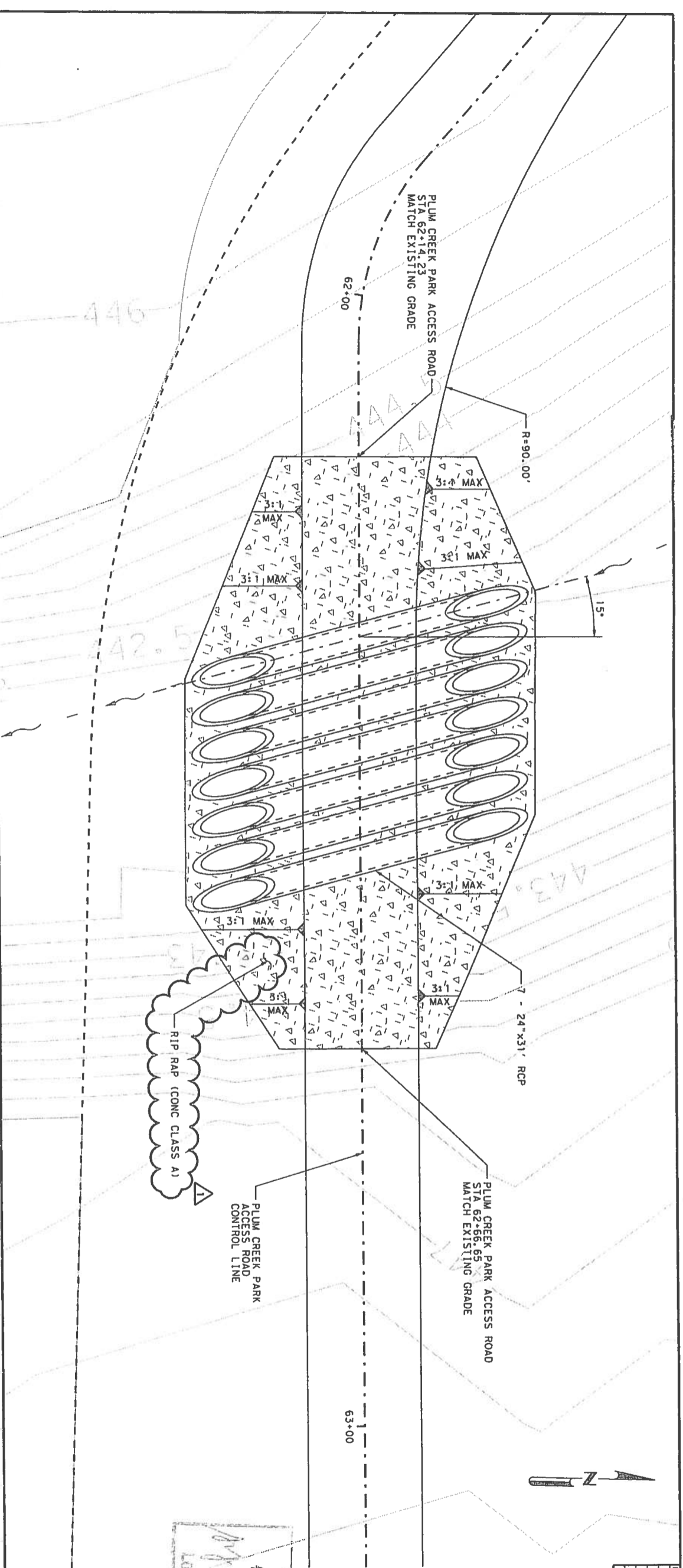
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SHEET 8 OF 8 SHEET

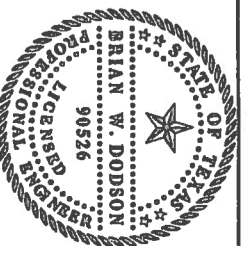
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APPROVED BY: BMD	DATE: 01-11-08
FED. FED. AID PROJECT NO.	SHEET NAME
6	86-2XXDB001
STATE	DISTRICT
TX	AUS
CONTRACT	SECTION
	JOB

REV	DATE	BY	DESCRIPTION
0	01/11/08	BWMA	APPROVED FOR CONST
1	02/27/08	BWMDNC	T76 AFC

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NOTE:
1. OVERALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED TO ACCOUNT FOR EXISTING SITE CONDITIONS.



TEAM MEMBER
DMM-HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION P.
DETAILS
ACCESS ROAD
LOW LEVEL CROSSING #1

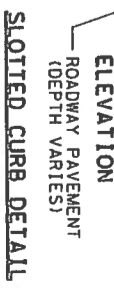
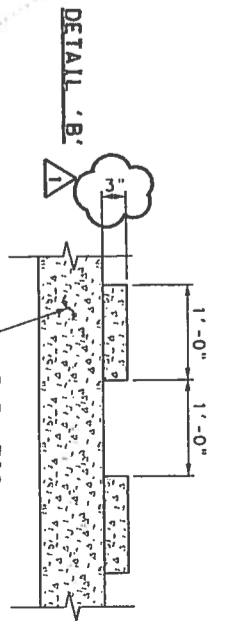
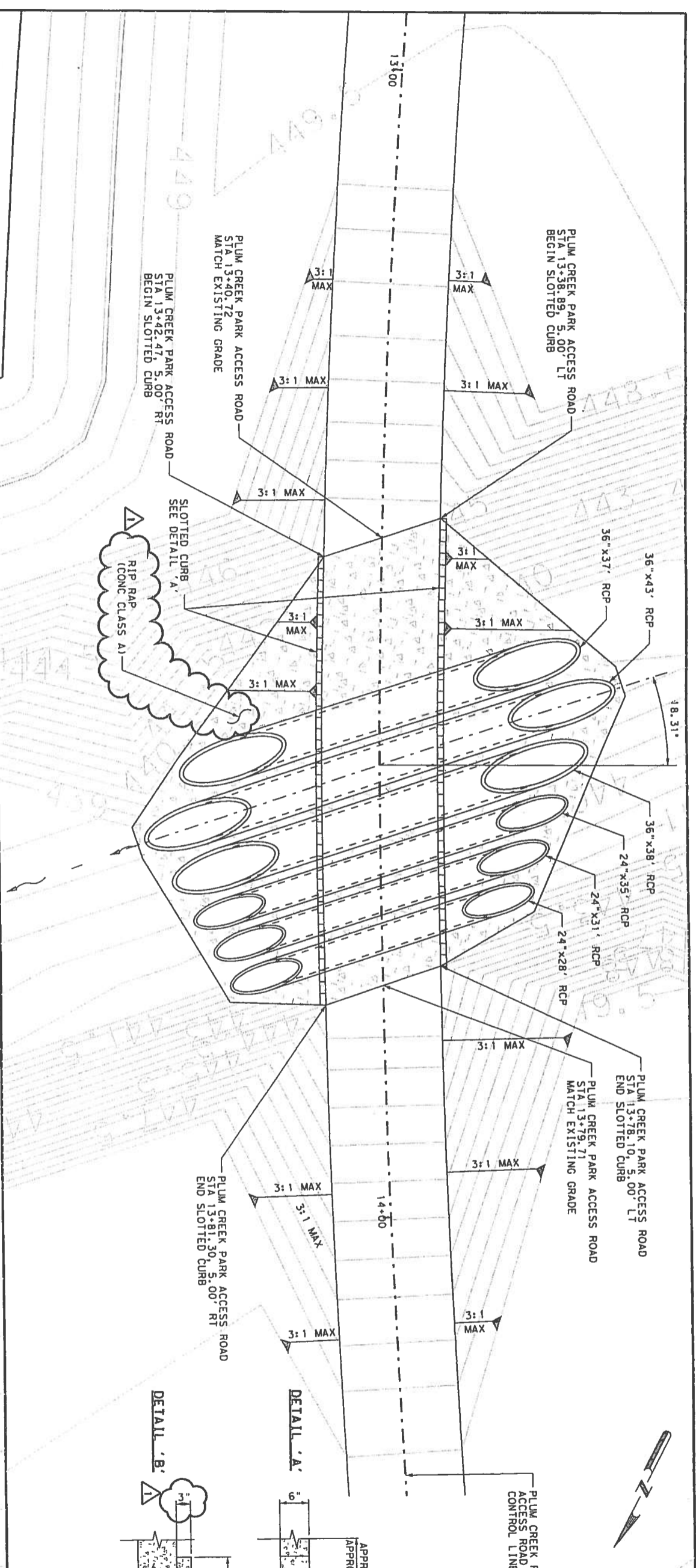
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VERTICAL: 1" = 10'

SHEET 1 OF 10 SHEETS

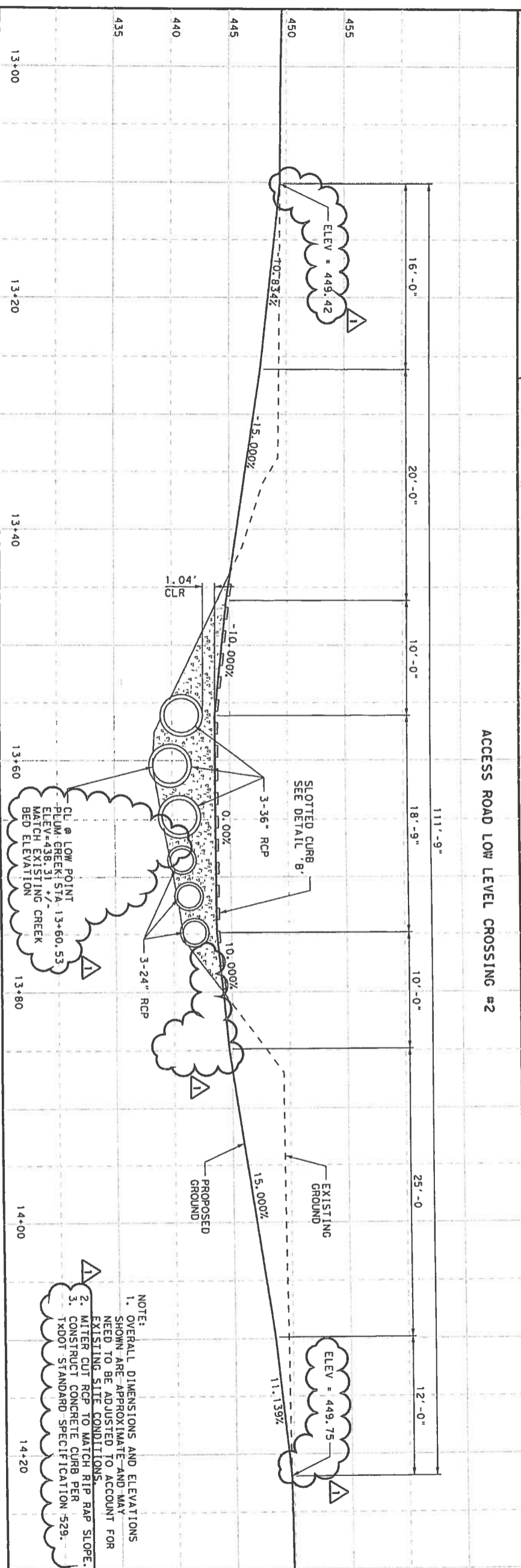
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6 86-2XXDB001			
STATE	DISTRICT		
TX	AUS		
CONT	SECT		

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	776 A/C

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MAY MAR 03 2000
Lone Star Infrastructure



ACCESS ROAD LOW LEVEL CROSSING #2



TEAM MEMBER
DANIEL HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION

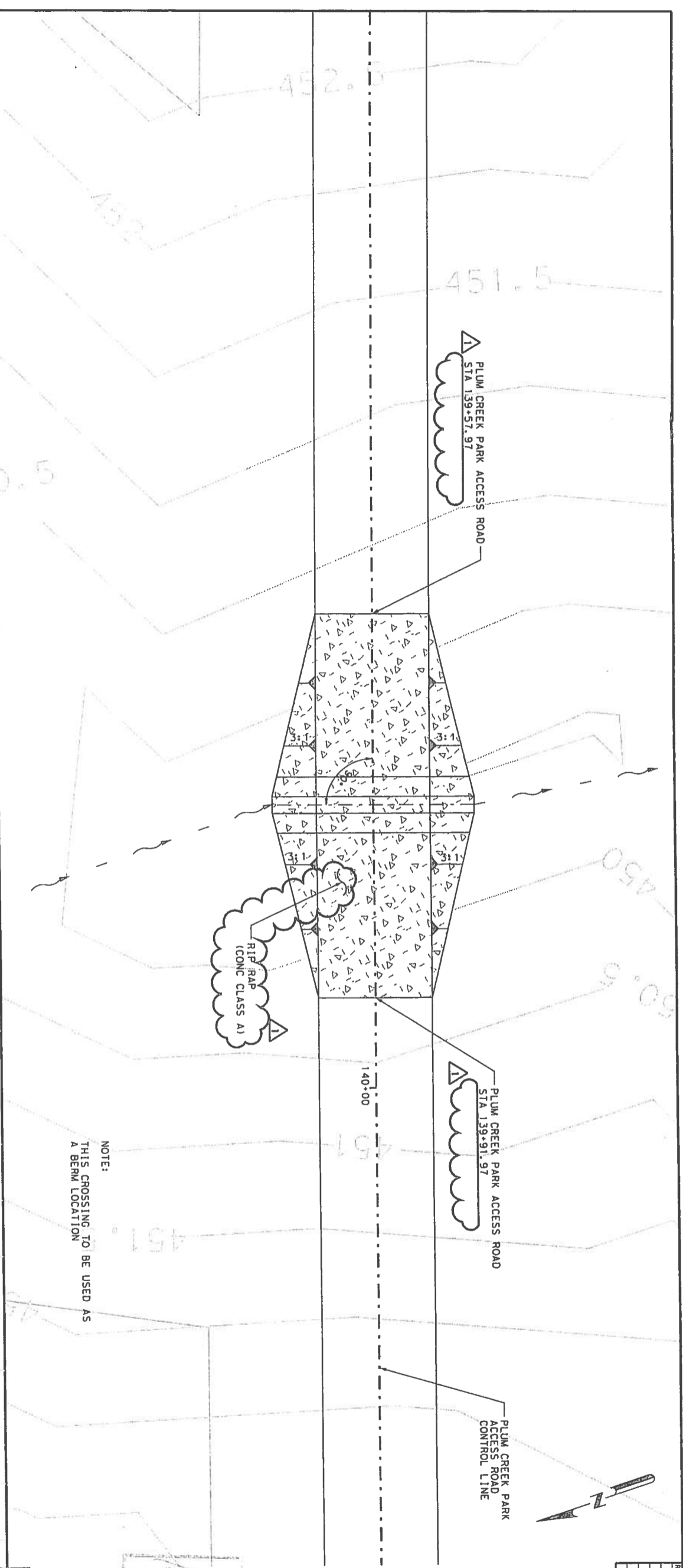
SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION PI
DETAILS
ACCESS ROAD
LOW LEVEL CROSSING #2

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 10'

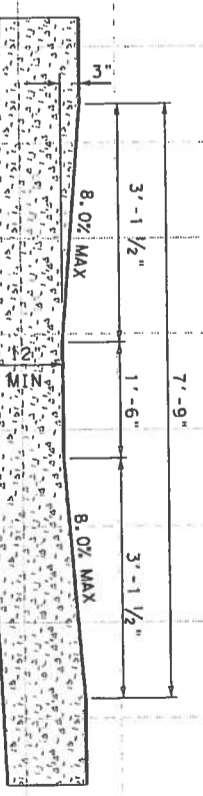
SHEET 2 OF 10 SHEET

DESIGNED BY	CHECKED BY	DATE	PROJECT
BMD	BMD	01-11-08	776 A/C
APPROVED BY	DATE	SHEET NAME	COUNT
BMD	01-11-08	86-2XXDB001	1
STATE	DISTRICT	TX	AUS
CNT	SECT	JOB	1

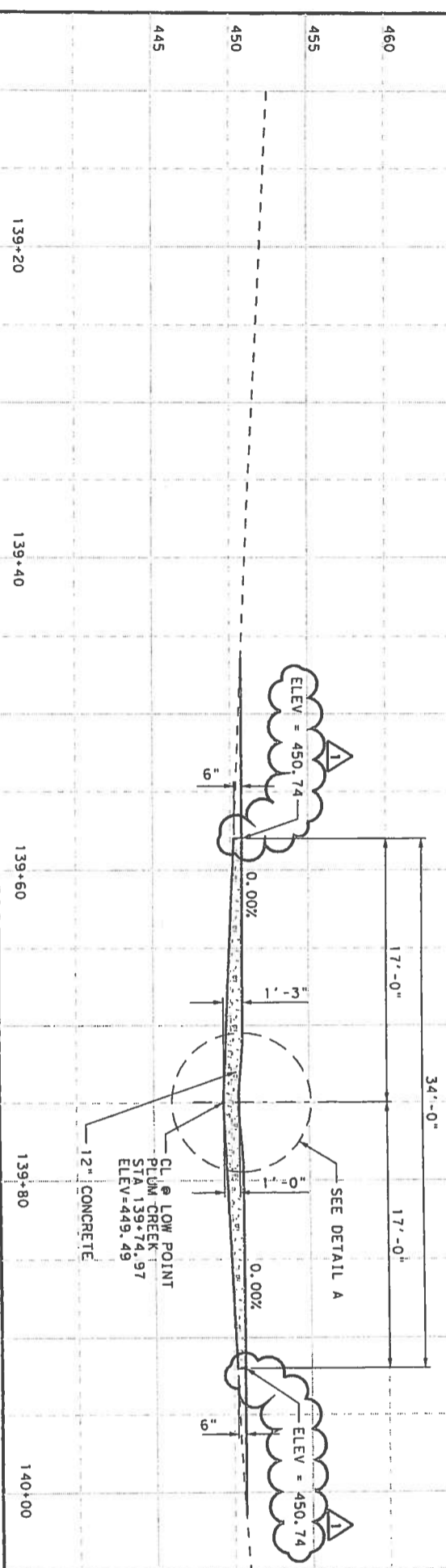
REV#	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	776 AFC



NOTE:
THIS CROSSING TO BE USED AS
A BERM LOCATION



DETAIL A



NOTE:
1. OVERALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED TO ACCOUNT FOR EXISTING SITE CONDITIONS.

BRIAN W. DODSON
LICENSED PROFESSIONAL ENGINEER
90526

TEAM MEMBER
DANIEL HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5, SECTION 1
PLUM CREEK MITIGATION P,
DETAILS
ACCESS ROAD
LOW LEVEL CROSSING #3

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 10'

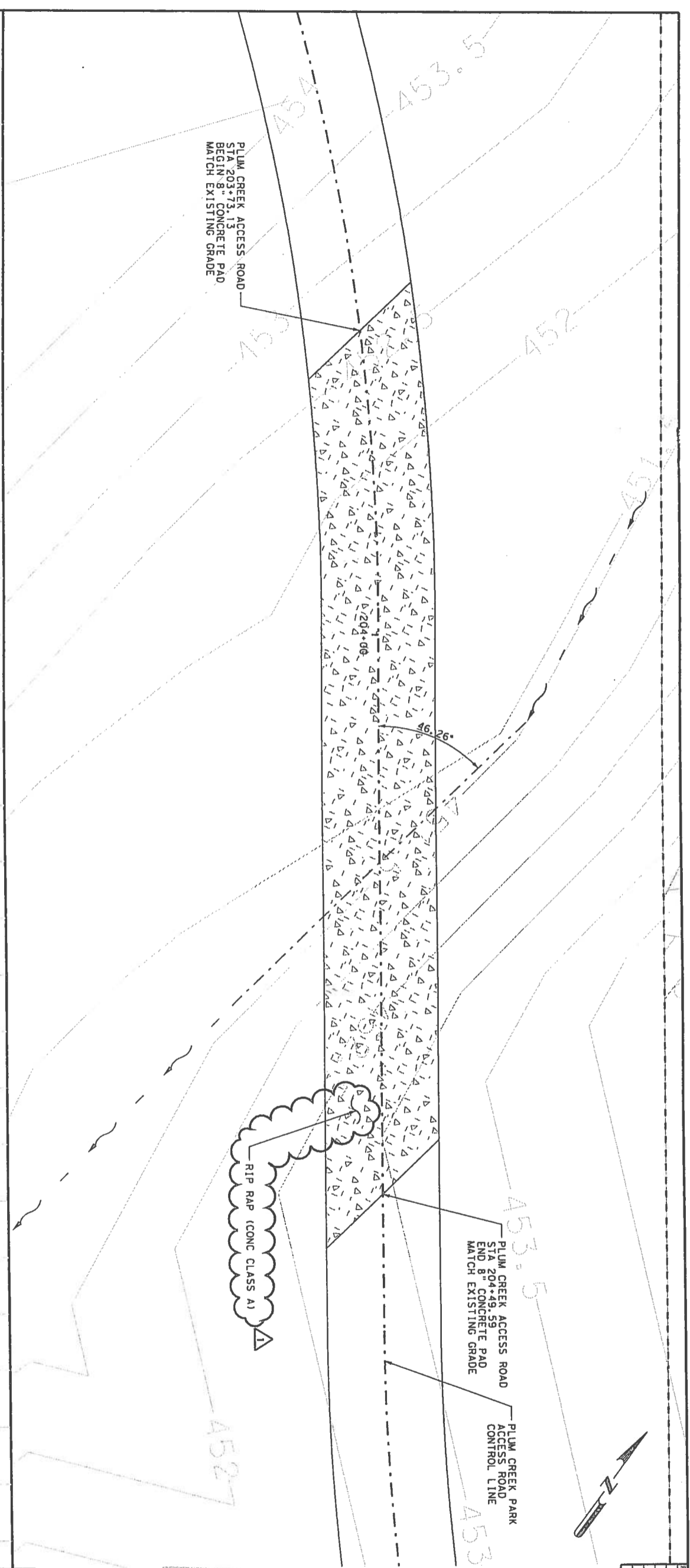
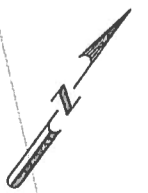
SHEET 3 OF 10 SHEETS

DESIGNED BY: JDB	CHECKED BY: BMD	DATE:
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FED/ FED AID PROJECT NO:	SHEET NAME:	
6 86-2XX0B001		

STATE	DISTRICT	COUNT
TX	AUS	
CONTRACT	SECTION	JOB

RELEASED FOR
CONSTRUCTION
MAR 03 2009
Lone Star Infrastructure

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMB	APPROVED FOR CONST
1	02/27/08	BMB	716 AFC



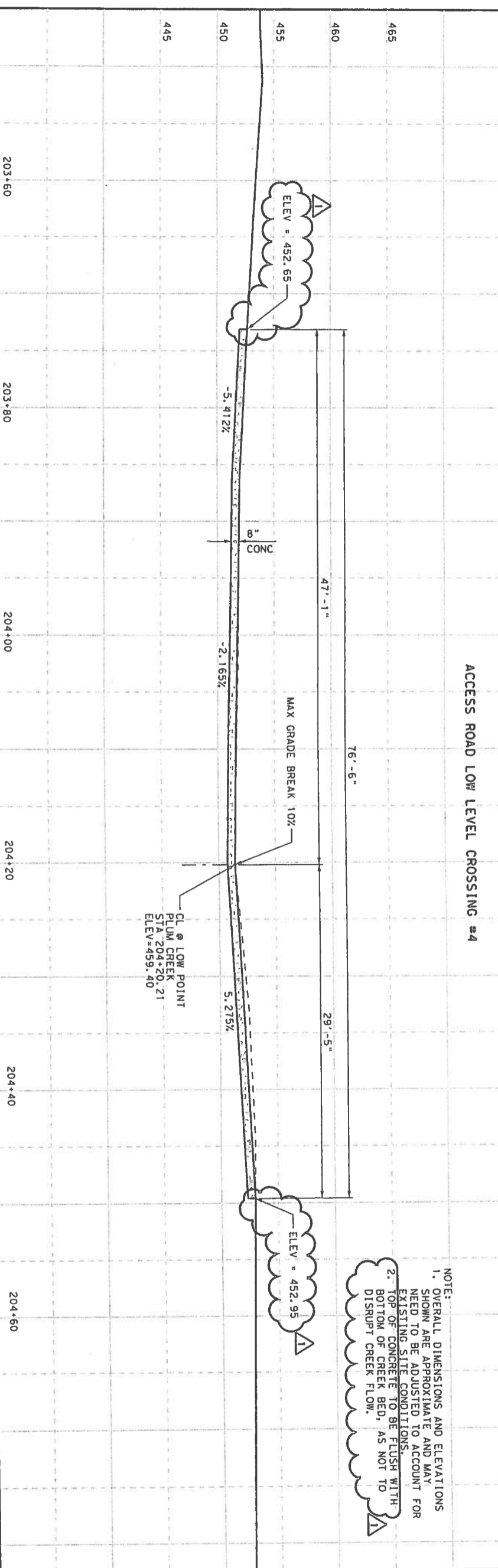
ACCESS ROAD LOW LEVEL CROSSING #4

NOTE:
 1. OVERALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED TO ACCOUNT FOR EXISTING SITE CONDITIONS.
 2. TOP OF CONCRETE TO BE FLUSH WITH BOTTOM OF CREEK BED, AS NOT TO DISRUPT CREEK FLOW.

ELEV = 452.65

ELEV = 452.95

CL @ LOW POINT
 PLUM CREEK
 STA 204+20.21
 ELEV=459.40



BRIAN W. DODSON
 LICENSED PROFESSIONAL ENGINEER
 90826

TEAM MEMBER
 DALLAM-HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
 SECTION 5 - SECTION 16
 PLUM CREEK MITIGATION PAR
 DETAILS
 ACCESS ROAD
 LOW LEVEL CROSSING #4

HORIZONTAL: 1" = 10'
 VERTICAL: 1" = 10'

SHEET 4 OF 10 SHEETS

DESIGNED BY: JDB	CHECKED BY: BMD	DATE: 01-11-08
DRAWN BY: JDB	CHECKED BY: BMD	DATE: 01-11-08
APPROVED BY: BMD	DATE: 01-11-08	PROJECT
FED/ FED AID PROJECT NO	SHEET NAME	
6 86-2XXDB001		
STATE	DISTRICT	COUNTY
TX	AUS	
COMT	SECT	JOB
		HIT

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 Lone Star Infrastructure

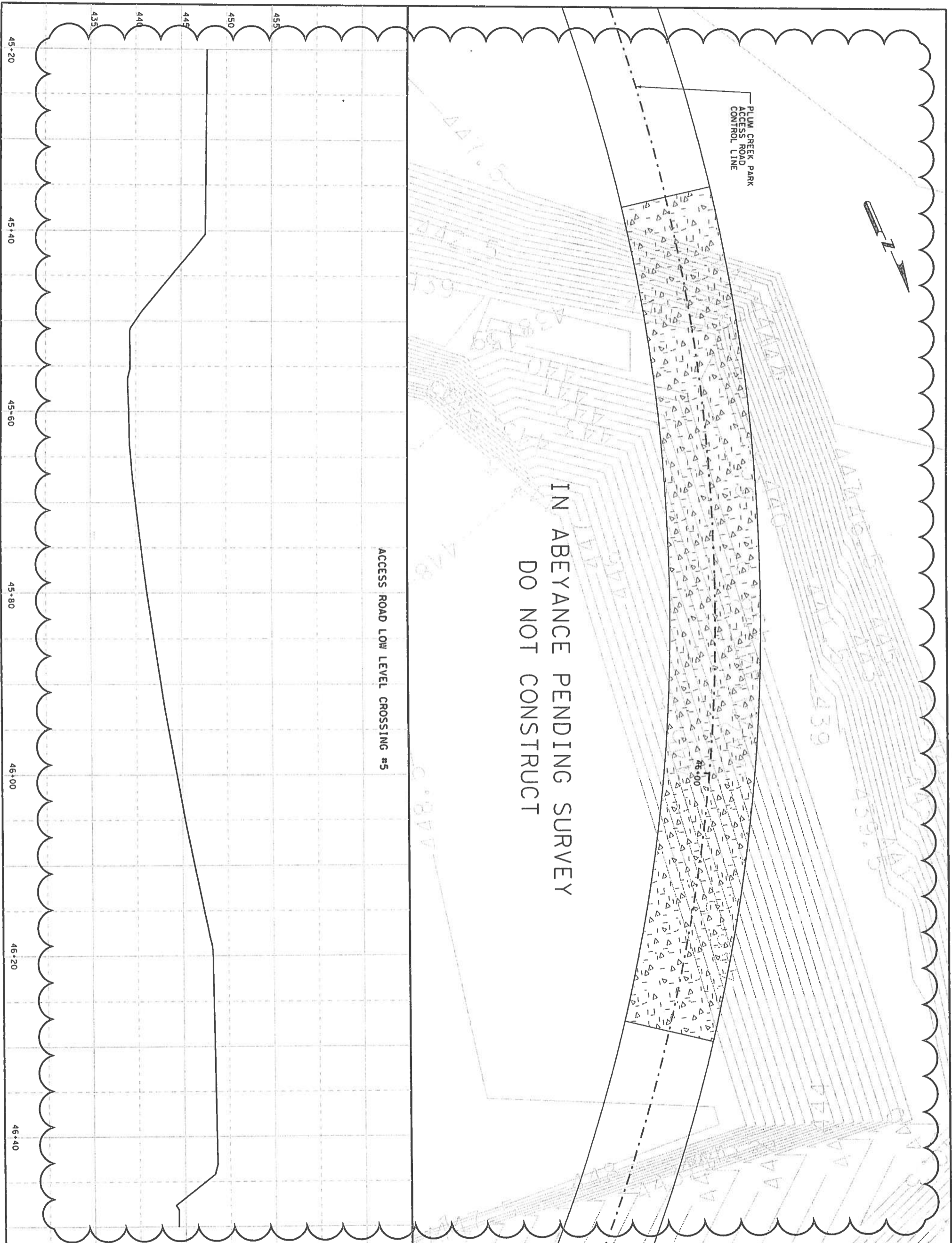
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0	01/11/08	BMD	APPROVED FOR CONST



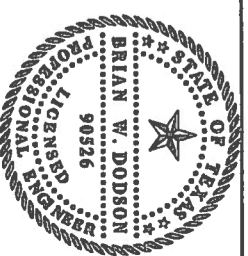
PLUM CREEK PARK
ACCESS ROAD
CONTROL LINE

IN ABEYANCE PENDING SURVEY
DO NOT CONSTRUCT

ACCESS ROAD LOW LEVEL CROSSING #5



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Tome Star Infrastuctur



Brian W. Dodson
1/29/08

TEAM MEMBER
DWM/HAD/RRS

TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 11
PLUM CREEK MITIGATION PA
DETAILS
ACCESS ROAD
LOW LEVEL CROSSING #5

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 10'

SHEET 5 OF 10 SHEET

DESIGNED BY: JOB	CHECKED BY: OF	DATE: D
DRAWN BY: JOB	CHECKED BY: BMD	DATE: D
APPROVED BY: BMD	DATE: 01-11-08	PROJECT
FED AID PROJECT NO.	SHEET NAME	

STATE	DISTRICT	COUNTY
TX	AUS	
CONT	SECT	JOB
		HI

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONSTRUCTION
1	02/27/08	BMD	NO. 776 AFC

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MAR 03 2009
Lone Star Infrastructure

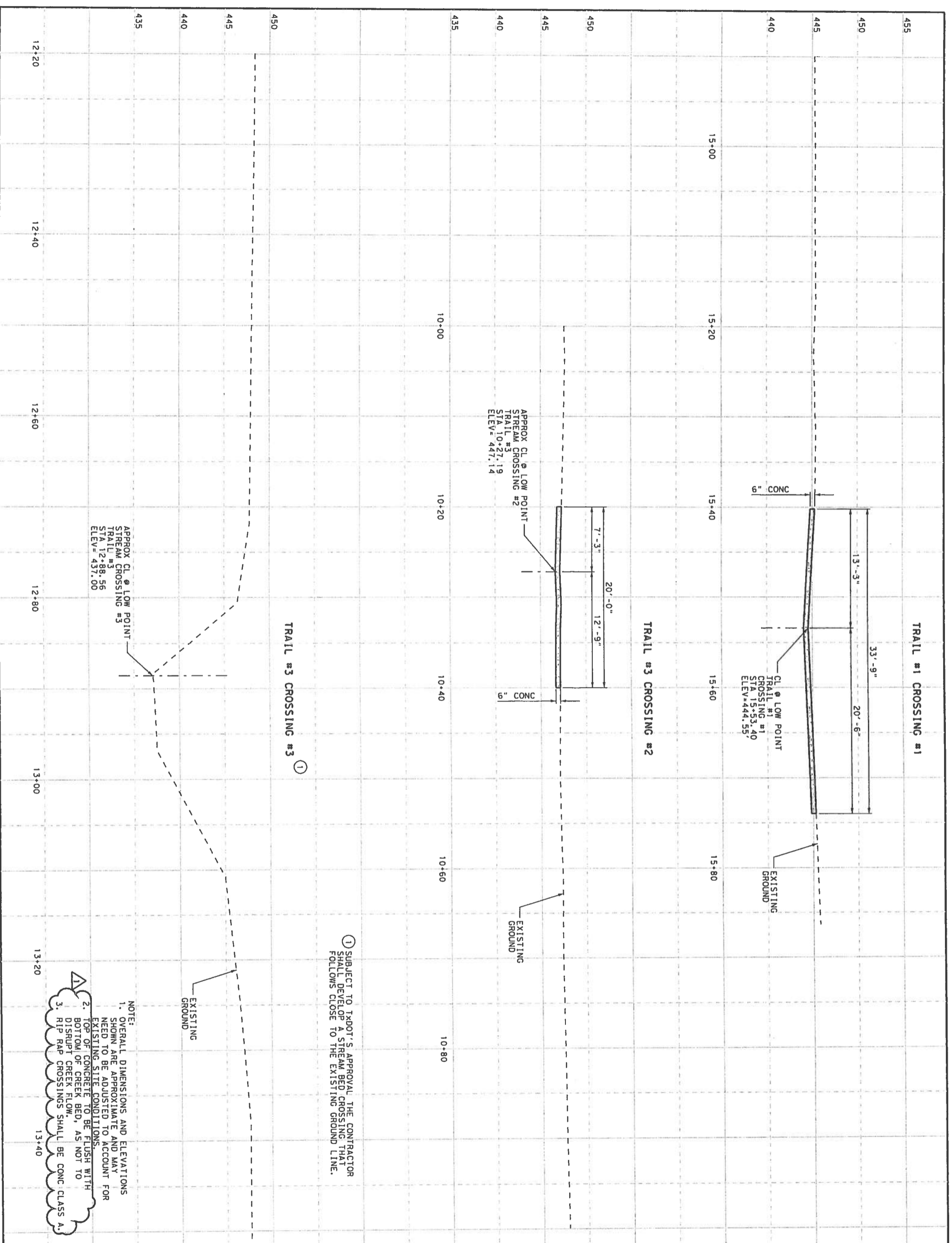


TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5, SECTION 16
PLUM CREEK MITIGATION PAF
DETAILS
TRAIL LOW LEVEL CROSSING
#1, #2 & #3

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 10'
SHEET 7 OF 10 SHEETS

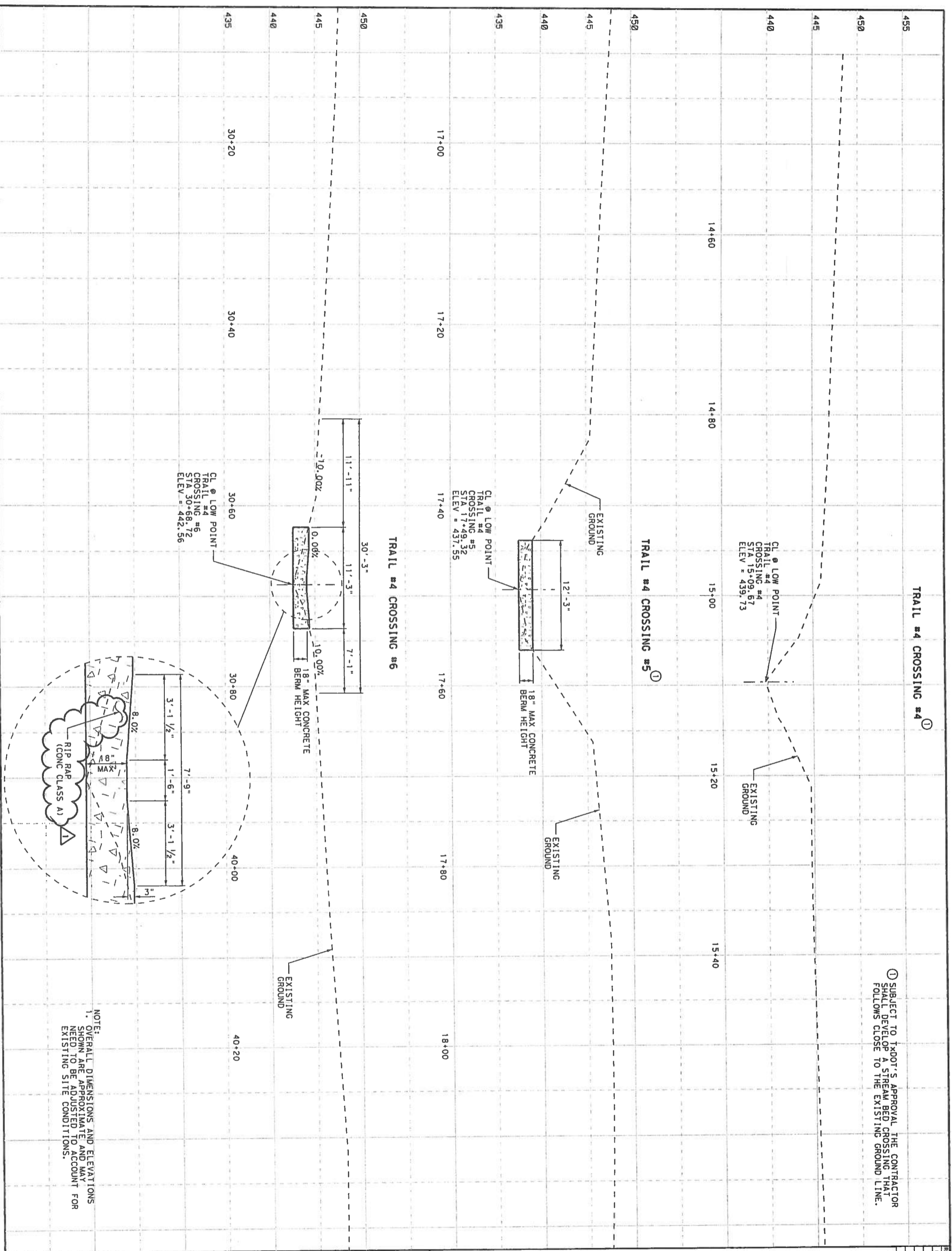
DATE	BY	DESCRIPTION
01/11/08	BMD	APPROVED FOR CONSTRUCTION
02/27/08	BMD	NO. 776 AFC

DESIGNED BY	CHKD BY	DATE
DRAWN BY	CHKD BY	DATE
APPROVED BY	DATE	PROJECT
FED. AID PROJECT NO.	SHEET NAME	
6	86-2XXDB001	
STATE	DISTRICT	COUNTY
TX	AUS	
CONT	SECT	JOB
		HIT



REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	716 A/C

① SUBJECT TO TxDOT'S APPROVAL THE CONTRACTOR SHALL DEVELOP A STREAM BED CROSSING THAT FOLLOWS CLOSE TO THE EXISTING GROUND LINE.



NOTE:
1. OVERALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED TO ACCOUNT FOR EXISTING SITE CONDITIONS.

BRIAN W. DODSON
90526
LICENSED PROFESSIONAL ENGINEER

TEAM MEMBER
DMLM/HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
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SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION PROJECT
DETAILS
TRAIL LOW LEVEL CROSSING
#4, #5 & #6

HORIZONTAL: 1" = 10'
VERTICAL: 1" = 10'

SHEET 8 OF 10 SHEETS

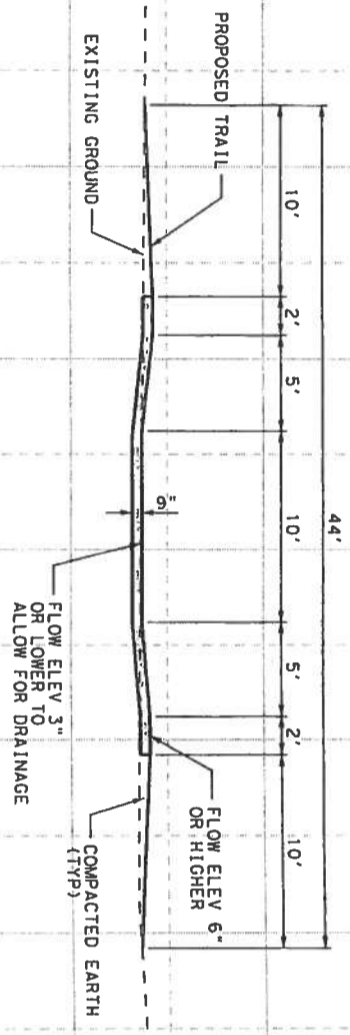
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DRAWN BY: JDB	CHECKED BY: BMD	DATE:
APPROVED BY: BMD	DATE: 07-11-08	PROJECT:
FED. FED. AID PROJECT NO.	SHEET NAME:	
6 86-2XXDB001		

STATE	DISTRICT	COUNTY
TX	AUS	
CONTRACT	SECTION	JOB
		H

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MAR 03 2008
Lone Star Infrastructure

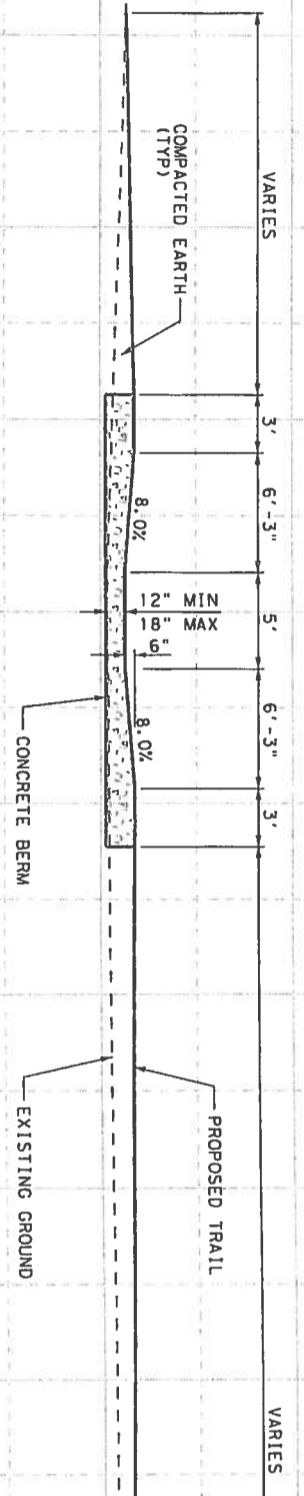
POND OUTFLOW LOW WATER CROSSINGS

CROSSING #7 - EMERGENT WETLAND #28 OVERFLOW ELEV = 448.80'
 CROSSING #9 - DEEP POND #6 OVERFLOW ELEV = 451.92'
 CROSSING #13 - DEEP POND #5 OVERFLOW ELEV = 450.03'

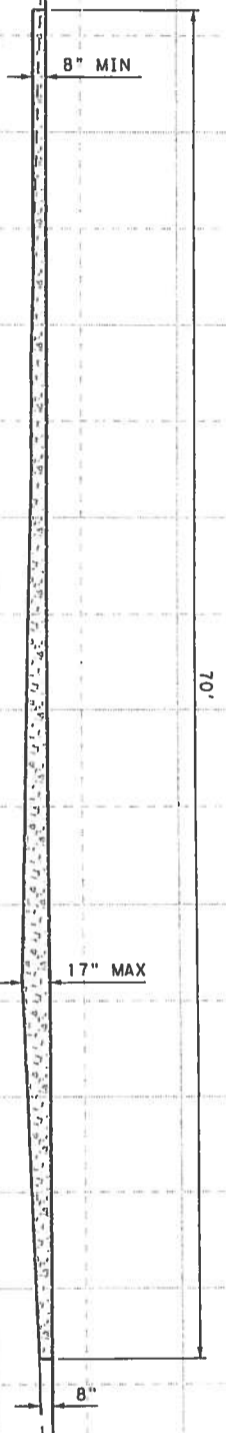


TRAIL LOW WATER CROSSING BERM LOCATION

CROSSING #8 - TRAIL #6
 CROSSING #10 - TRAIL #5
 CROSSING #12 - TRAIL #9



ACCESS ROAD LOW LEVEL CROSSING #14



NOTE:
 1. OVERALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED TO ACCOUNT FOR EXISTING SITE CONDITIONS.
 2. RIP RAP CROSSINGS SHALL BE CONCRETE CLASS A.

REV	DATE	BY	DESCRIPTION
0	01/11/08	BMD	APPROVED FOR CONST
1	02/27/08	BMD	776 AFC

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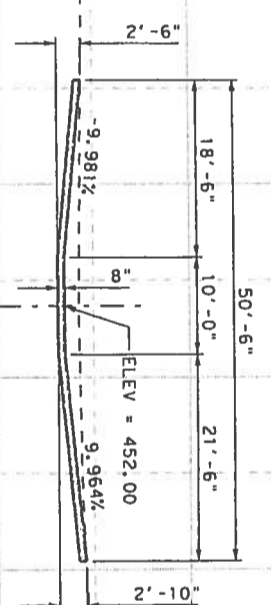
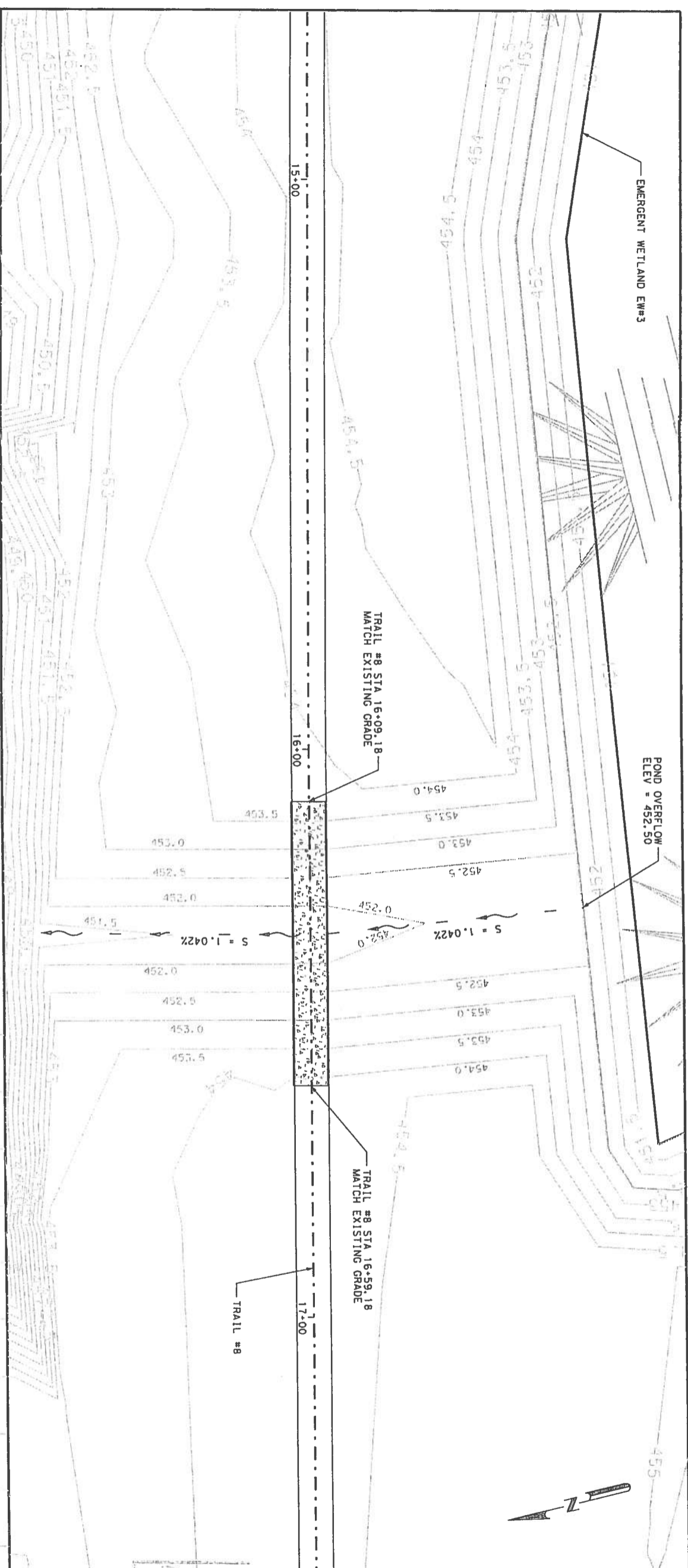


TEAM MEMBERS
 DILLON-HARRIS
 TEXAS DEPARTMENT OF TRANSPORTATION
 SECTION 5, SECTION 1
 PLUM CREEK MITIGATION P
 DETAILS
 TRAIL LOW LEVEL CROSSING #7, #8, #9, #10, #12, #13
 ACCESS ROAD CROSSING #14

HORIZONTAL: 1" = 10'
 VERTICAL: 1" = 10'
 SHEET 9 OF 10 SHEETS

DESIGNED BY	CHECKED BY	DATE
BMD	BMD	01-11-08
APPROVED BY	DATE	PROJECT
BMD	01-11-08	86-2XXDB001
FED. AID PROJECT NO.	SHEET NAME	COUNT
6	86-2XXDB001	1
STATE	DISTRICT	JOB
AUS		
TX	SECT	JOB

REV	DATE	BY	DESCRIPTION
0	10/11/08	BMD	APPROVED FOR CONSTRUCTION
1	02/27/08	BMD	DC 716 AFC



TRAIL #8 LOW LEVEL CROSSING #11

EXISTING GROUND

- NOTES:
1. OVERALL DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND MAY NEED TO BE FIELD ADJUSTED TO ACCOUNT FOR EXISTING SITE CONDITIONS.
 2. RIP RAP CROSSINGS SHALL BE CONC CLASS A.

HORIZONTAL: 1" = 20'
VERTICAL: 1" = 20'

TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION II
 PLUM CREEK MITIGATION PA
 DETAILS
 TRAIL #8
 LOW LEVEL CROSSING #11

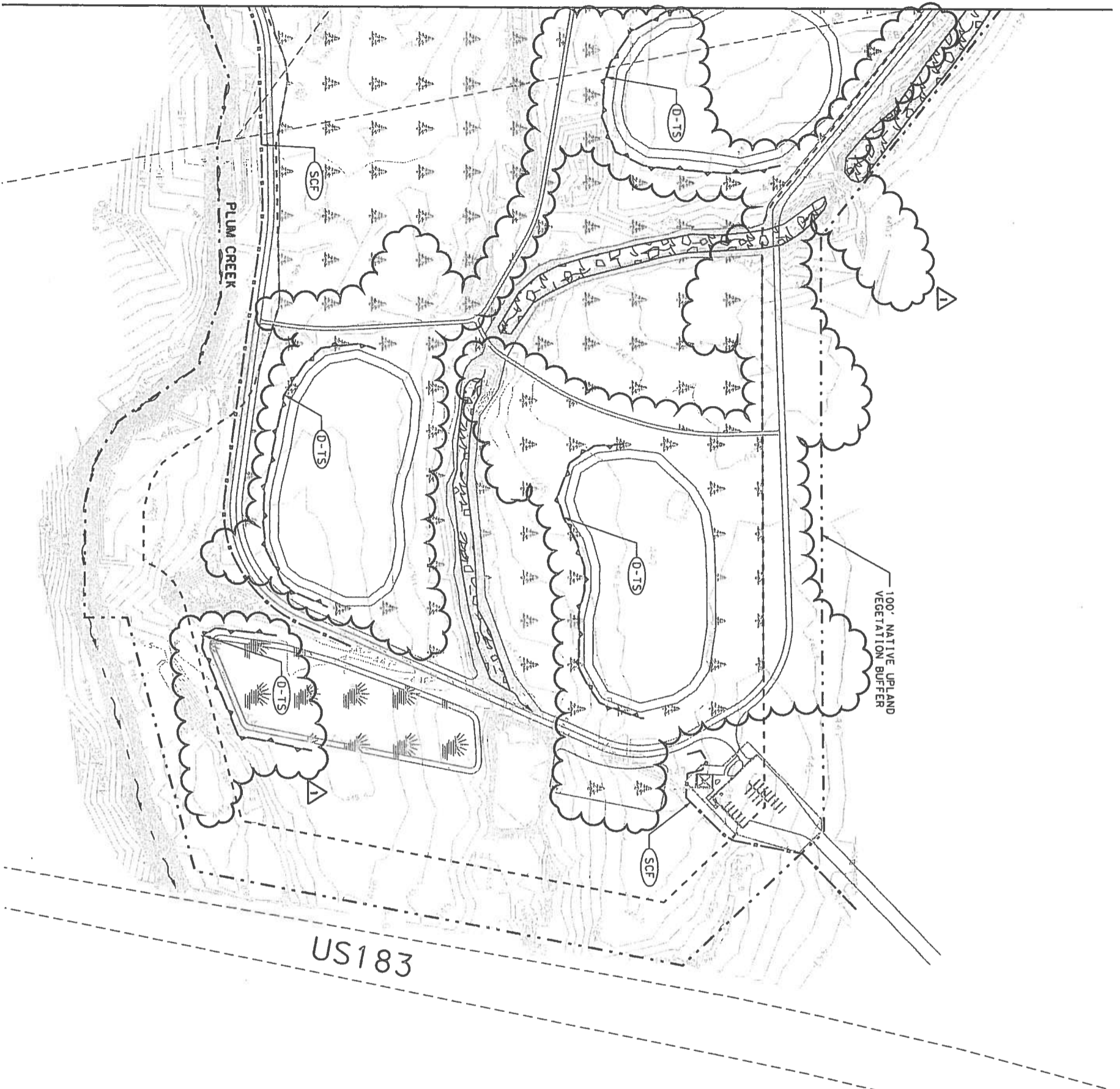


DESIGNED BY	CHECKED BY	DATE
DRW	DRW	DATE
APPROVED BY	DATE	PROJECT
FED AID PROJECT NO. SHEET NAME		
6 B6-2XXDB001		
STATE	DISTRICT	COUNTY
TX	AUS	
CONT	SECT	JOB
		11

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 MAR 03 2008
 Lone Star Infrastructure

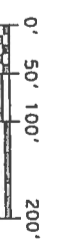
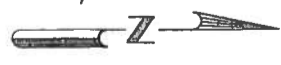
445	15+00
455	16+00
465	17+00

MATCHLINE SEE SHEET 2 OF 5



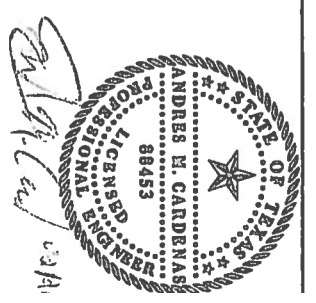
LEGEND

- SEDIMENT CONTROL FENCE
- SCF
- DIKE TOP/SOIL
- TS
- SNALE (S)
- ROCK FILTER DAM TYPE 1 (RFD1)
- ROCK FILTER DAM TYPE 2 (RFD2)
- ROCK FILTER DAM TYPE 3 (RFD3)
- CONSTRUCTION EXIT TYPE 1 (FIELD LOCATED) (CE1)
- EROSION CONTROL DEVICE CHANGE
- EXISTING CONTOURS



REV	DATE	BY	DESCRIPTION
0	01/11/08	AM	APPROVED FOR CONSTRUCTION
1	02/27/08	AM	AMENDMENT 776 AFC

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MAR 03 2008
Lone Star Infrastructure



TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION 1
 PLUM CREEK MITIGATION P1
 SW3P

SHEET 1 OF 5 SHEETS
 SCALE: 1" = 200'

DESIGNED BY	CHECKED BY	DATE
APPROVED BY	DATE	PROJECT
FEDERAL AID PROJECT NO.	SHEET NAME	COUNT
6	86-2XXXB001	
STATE	DISTRICT	COUNTY
TX	AUS	
CONTRACT	SECTION	JOB

MATCHLINE SEE SHEET 3 OF 5

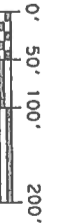


LEGEND

- SEDIMENT CONTROL (SCF)
- FENCE
- DINE - TOPSOIL (D-TS)
- SWALE (S)
- ROCK FILTER DAM TYPE 1 (RFD1)
- ROCK FILTER DAM TYPE 2 (RFD2)
- ROCK FILTER DAM TYPE 3 (RFD3)
- CONSTRUCTION EXIT TYPE 1 (FIELD LOCATED) (CE1)
- EROSION CONTROL DEVICE CHANGE
- 7.5' EXISTING CONTOURS

100' NATIVE UPLAND VEGETATION BUFFER

MATCHLINE SEE SHEET 1 OF 5



REV	DATE	BY	DESCRIPTION
0	01/11/08	AMC	APPROVED FOR CONSTRUCTION
1	02/27/08	AMC	DC 776 AFC

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 Lane Structures

ANDRES M. CARDENAS
 88453
 LICENSED PROFESSIONAL ENGINEER
 STATE OF TEXAS

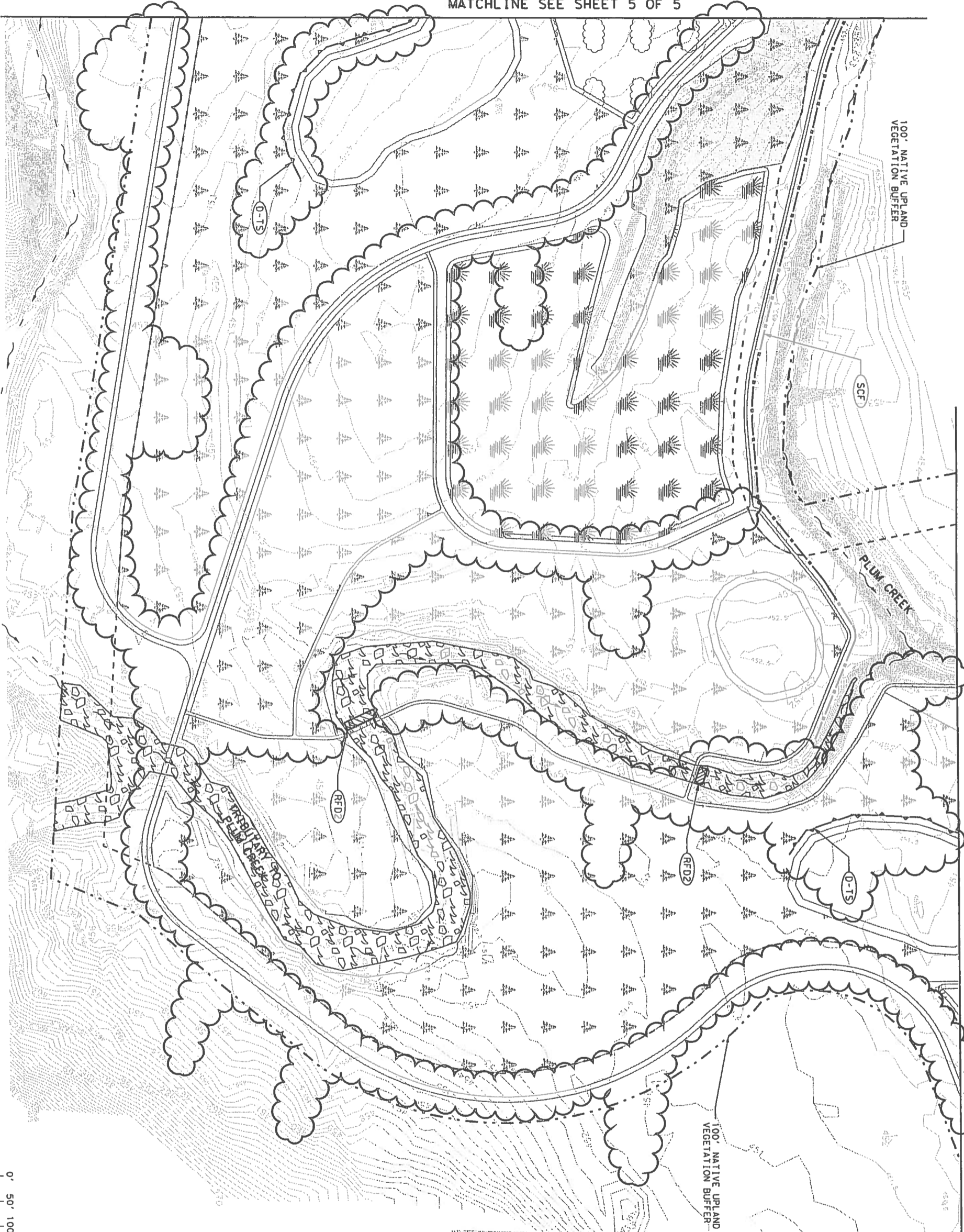
TEXAS DEPARTMENT OF TRANSPORTATION
 TEAM LEADER
 DANA HARRIS

SCALE: 1" = 200'

SHEET 2 OF 5 SHEET

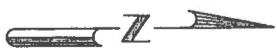
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APPROVED BY	AMC	DATE	01-11-08	PROJECT	
FED AID PROJECT NO.	86-2XXXX001	SHEET NAME		STATE	TX
DISTRICT		COUNTY		AUS	
CONTRACT		SECTION		JOB	
				HI	

MATCHLINE SEE SHEET 5 OF 5



MATCHLINE SEE SHEET 3 OF 5

REV	DATE	BY	DESCRIPTION
0	01/11/08	AMC	APPROVED FOR CONSTRUCTION
1	02/27/08	AMC	DC 716 AFC



LEGEND

- SEDIMENT CONTROL FENCE (SCF)
- DIKE TOPSOIL (D-TS)
- SMALE (S)
- ▨ ROCK FILTER DAM TYPE 1 (RFD)
- ▨ ROCK FILTER DAM TYPE 2 (RFD)
- ▨ ROCK FILTER DAM TYPE 3 (RFD)
- CONSTRUCTION EXIT TYPE 1 (FIELD LOCATED) (CEI)
- EROSION CONTROL DEVICE CHANGE
- 7.5 — EXISTING CONTOURS

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 MAR 03 2008
 Lone Star Infrastructure

STATE OF TEXAS
 ANDRES H. CARDENAS
 88453
 LICENSED PROFESSIONAL ENGINEER

Andres H. Cardenas
 3/19

TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION 16
 PLUM CREEK MITIGATION PAI
 SWSP

SCALE: 1" = 200'



SHEET 4 OF 5 SHEET

DESIGNED BY	DATE	CHECKED BY	DATE
DRAN BY	01-11-08	AMC	01-11-08
APPROVED BY	02-27-08	AMC	02-27-08

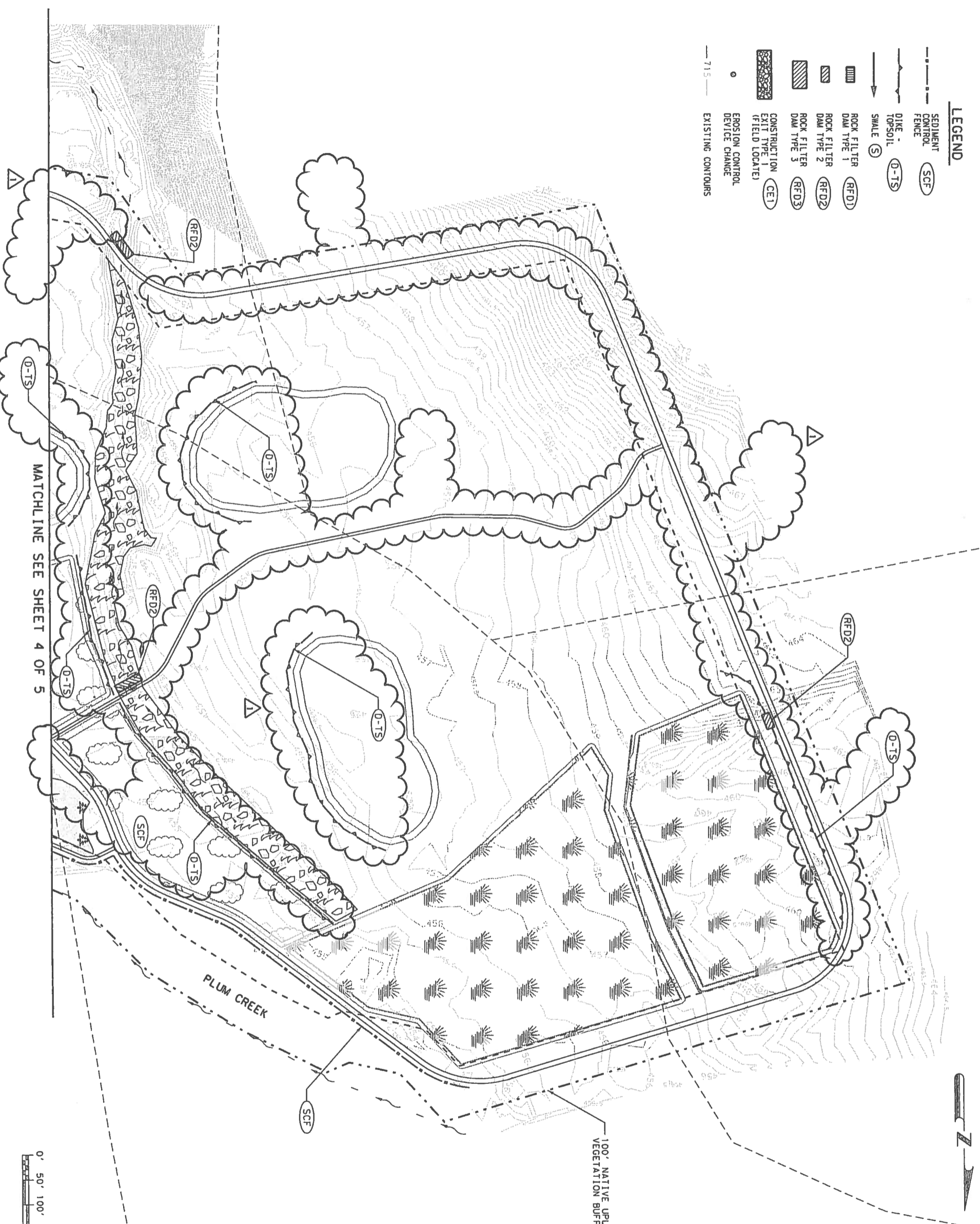
FED AID PROJECT NO. 86-2XXDB001 SHEET NAME

STATE	DISTRICT	COUNTY
TX	AUS	HI
CONT	SECT	JOB

REV	DATE	BY	DESCRIPTION
0	01/11/08	AM	APPROVED FOR CONST
1	02/27/08	AM	CHANGE 776 AFC

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MAR 03 2008
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- LEGEND**
- SCF SEDIMENT CONTROL
 - - - FENCE
 - D-TS DIKE TOPSOIL
 - SWALE
 - RFD1 ROCK FILTER DAM TYPE 1
 - RFD2 ROCK FILTER DAM TYPE 2
 - RFD3 ROCK FILTER DAM TYPE 3
 - CE1 CONSTRUCTION EXIT TYPE 1 (FIELD LOCATED)
 - EROSION CONTROL DEVICE CHANGE
 - EXISTING CONTOURS



STATE OF TEXAS
ANDRÉS H. CORDERAS
88453
LICENSED PROFESSIONAL ENGINEER

TEAM LEADER
DAMIÁN HARRIS

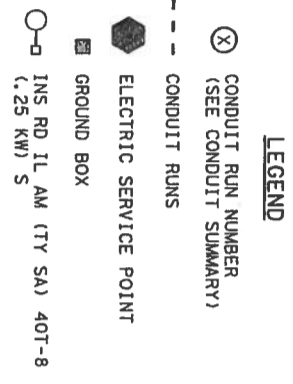
TEXAS DEPARTMENT OF TRANSPORTATION
SECTION 5, SECTION 1
PLUM CREEK MITIGATION P
SWSP

SHEET 5 OF 5 SHEET

SCALE: 1" = 200'

DESIGNED BY	DATE	CHECKED BY	DATE
DAMIAN H. HARRIS	01-11-08	ANDRES H. CORDERAS	01-11-08
APPROVED BY	DATE	PROJECT NO.	SHEET NAME
6	B6-2XXDB001		
STATE	DISTRICT	COUNTY	JOB
TX	AUS		
CONT	SECT		

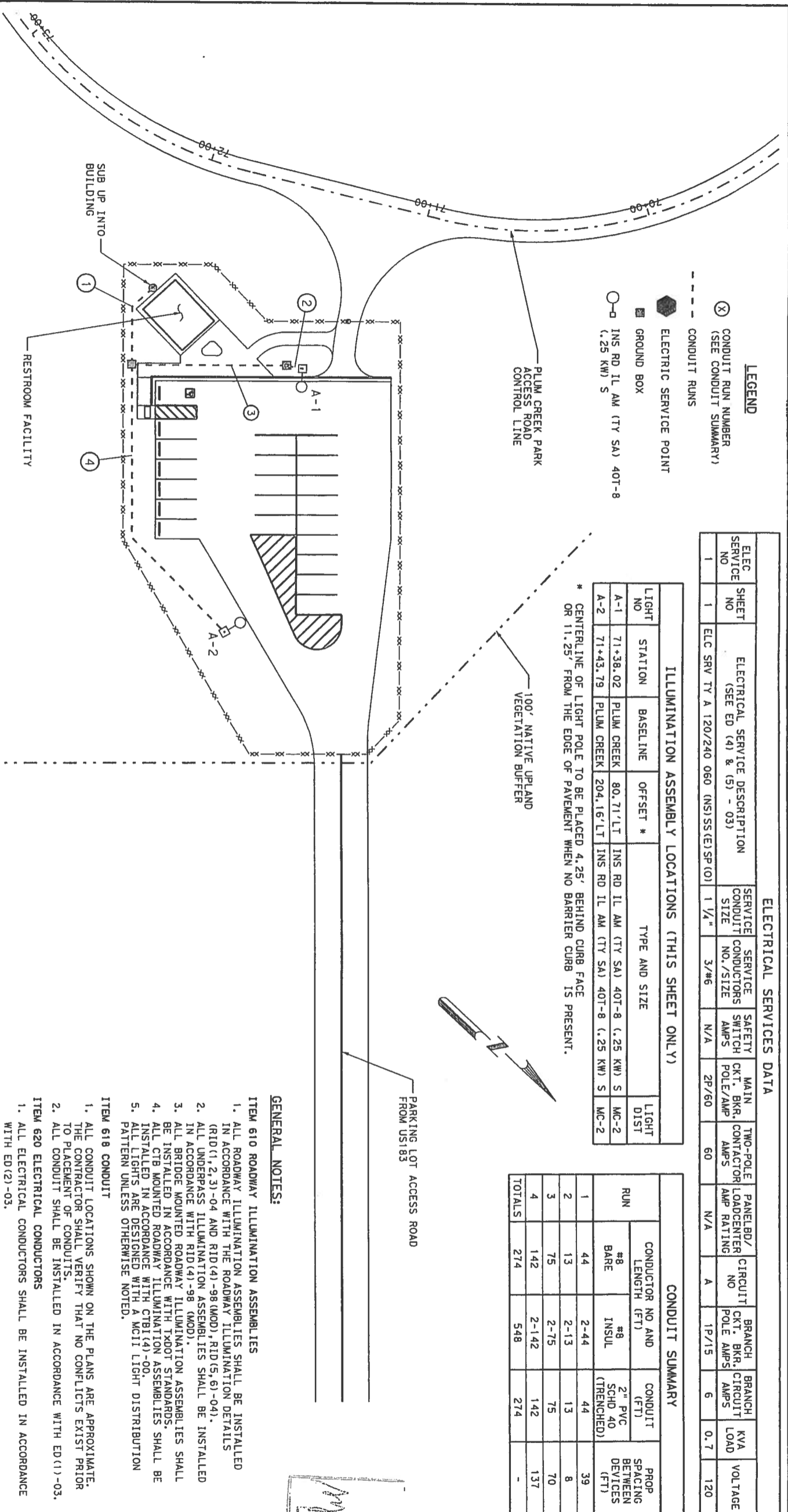
ELECTRICAL SERVICES DATA													
ELEC SERVICE NO	SHEET NO	ELECTRICAL SERVICE DESCRIPTION (SEE ED (4) & (5) - 03)	SERVICE CONDUIT SIZE	SERVICE CONDUCTORS NO./SIZE	SAFETY AMPS	MAIN CKT. POLE/AMP	TWO-POLE FACTOR AMP	PANELBD/LOAD CENTER AMP RATING	CIRCUIT NO	BRANCH CKT. POLE AMPS	BRANCH CIRCUIT AMPS	KVA LOAD	VOLTAGE
1	1	ELC SRV TY A 120/240 060 (NS) SS(E) SP (O)	1 1/4"	3/#6	N/A	2P/60	60	N/A	A	1P/15	6	0.7	120



ILLUMINATION ASSEMBLY LOCATIONS (THIS SHEET ONLY)					
LIGHT NO	STATION	BASELINE	OFFSET *	TYPE AND SIZE	LIGHT DIST
A-1	71+38.02	PLUM CREEK	80.71' LT	INS RD IL AM (TY SA) 40T-8 (.25 KW) S	MC-2
A-2	71+43.79	PLUM CREEK	204.16' LT	INS RD IL AM (TY SA) 40T-8 (.25 KW) S	MC-2

* CENTERLINE OF LIGHT POLE TO BE PLACED 4.25' BEHIND CURB FACE OR 11.25' FROM THE EDGE OF PAVEMENT WHEN NO BARRIER CURB IS PRESENT.

CONDUIT SUMMARY				
CONDUCTOR NO AND LENGTH (FT)	#8 BARE	#8 INSUL	2" PVC SCHD 40 (TRENCHED)	PROP SPACING BETWEEN DEVICES (FT)
1	44	2-44	44	39
2	13	2-13	13	8
3	75	2-75	75	70
4	142	2-142	142	137
TOTALS	274	548	274	-



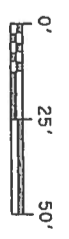
- NOTE:**
1. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE CONDUIT PRIOR TO POURING THE PAVEMENT.
 2. ADDITIONAL BREAKER REQ'D AT BUILDING ELECTRICAL PANEL. SEE CXT DRAWING FOR DETAILS (MAIN BREAKER -----)

TABULATION OF SHEET QUANTITIES*		
ITEM CODE	DESCRIPTION	UNIT QUANTITY EST.
416	2029 DRILL SHAFT (ROADWAY ILL POLE) (30")	LF 16
432	2038 RIPRAP (CONC) (CL A)	CY 0.7
610	2025 INS RD IL AM (TY SA) 40T-8 (.25 KW) S	EA 2
618	2018 CONDUIT (PVC) (SCHD 40) (2")	LF 274
620	2011 ELEC CONDR (NO 8) BARE	LF 274
620	2012 ELEC CONDR (NO 8) INSULATED	LF 548
624	2008 GROUND BOX (TY A) (122311) W/ APRON	EA 2

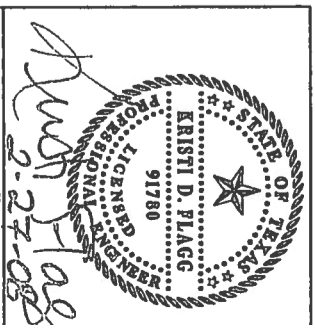
*QUANTITIES PROVIDED FOR INFORMATION ONLY

GENERAL NOTES:

- ITEM 610 ROADWAY ILLUMINATION ASSEMBLIES**
1. ALL ROADWAY ILLUMINATION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE ROADWAY ILLUMINATION DETAILS (RID(1), 2, 3)-04 AND RID(4)-98 (MOD), RID(5, 6)-04).
 2. ALL UNDERPASS ILLUMINATION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH RID(4)-98 (MOD).
 3. ALL BRIDGE MOUNTED ROADWAY ILLUMINATION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH TxDOT STANDARDS.
 4. ALL CTB MOUNTED ROADWAY ILLUMINATION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH CTBI(4)-00.
 5. ALL LIGHTS ARE DESIGNED WITH A MCII LIGHT DISTRIBUTION PATTERN UNLESS OTHERWISE NOTED.
- ITEM 618 CONDUIT**
1. ALL CONDUIT LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST PRIOR TO PLACEMENT OF CONDUITS.
 2. ALL CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH ED(1)-03.
- ITEM 620 ELECTRICAL CONDUCTORS**
1. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH ED(2)-03.
- ITEM 624 GROUND BOXES**
1. ALL GROUND BOX LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE PLACED TO MINIMIZE OBSTACLE INTERFERENCE, AS APPROVED BY THE ENGINEER.
 2. GROUND BOXES ARE NOT DRAWN TO SCALE.
 3. ALL TYPE D GROUND BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ED(3)-03.
- ITEM 628 ELECTRICAL SERVICE**
1. ALL ELECTRICAL SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH ELECTRICAL DETAILS ED(1), 2, 3, 4, 5, 6, 7, 8, 9, 10)-03.
- ITEM 656 FOUNDATIONS FOR ROADWAY ILLUMINATION ASSEMBLIES**
1. ALL ROADWAY ILLUMINATION FOUNDATIONS SHALL BE TYPE B (30 INCH DRILL SHAFT) FOR FORTY FOOT POLES.



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 MY MAR 03 2008
 Lone Star Infrastructure



TEAM MEMBERS
 DLAN-HARRIS

SEGMENT 5, SECTION 16
 PLUM CREEK MITIGATION PAR
 ILLUMINATION PLANS

SCALE: 1" = 50'

SHEET 1 OF 1 SHEETS	
DESIGNED BY: JDB	CHECKED BY: BMD
DRAWN BY: JDB	DATE: 02-27-08
APPROVED BY: JDB	DATE: 02-27-08
FED AID PROJECT NO:	SHEET NAME:
6 86-2XXDB001	
STATE: TEXAS	COUNTY: TARRANT
TX DISTRICT: AUS	
CDMT SECT:	JOB:
	HIG:

REV	DATE	BY	DESCRIPTION
0	02/21/08	BMD	APPROVED FOR CONST
1	03/25/08	BMD	NOI DC 719 AFC

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MAR 29 2008
Home Star Infrastructure

B. W. Dodson 3/25

BRIAN W. DODSON
PROFESSIONAL ENGINEER
90526
STATE OF TEXAS

TEAM LEADER
DANIEL HARRIS

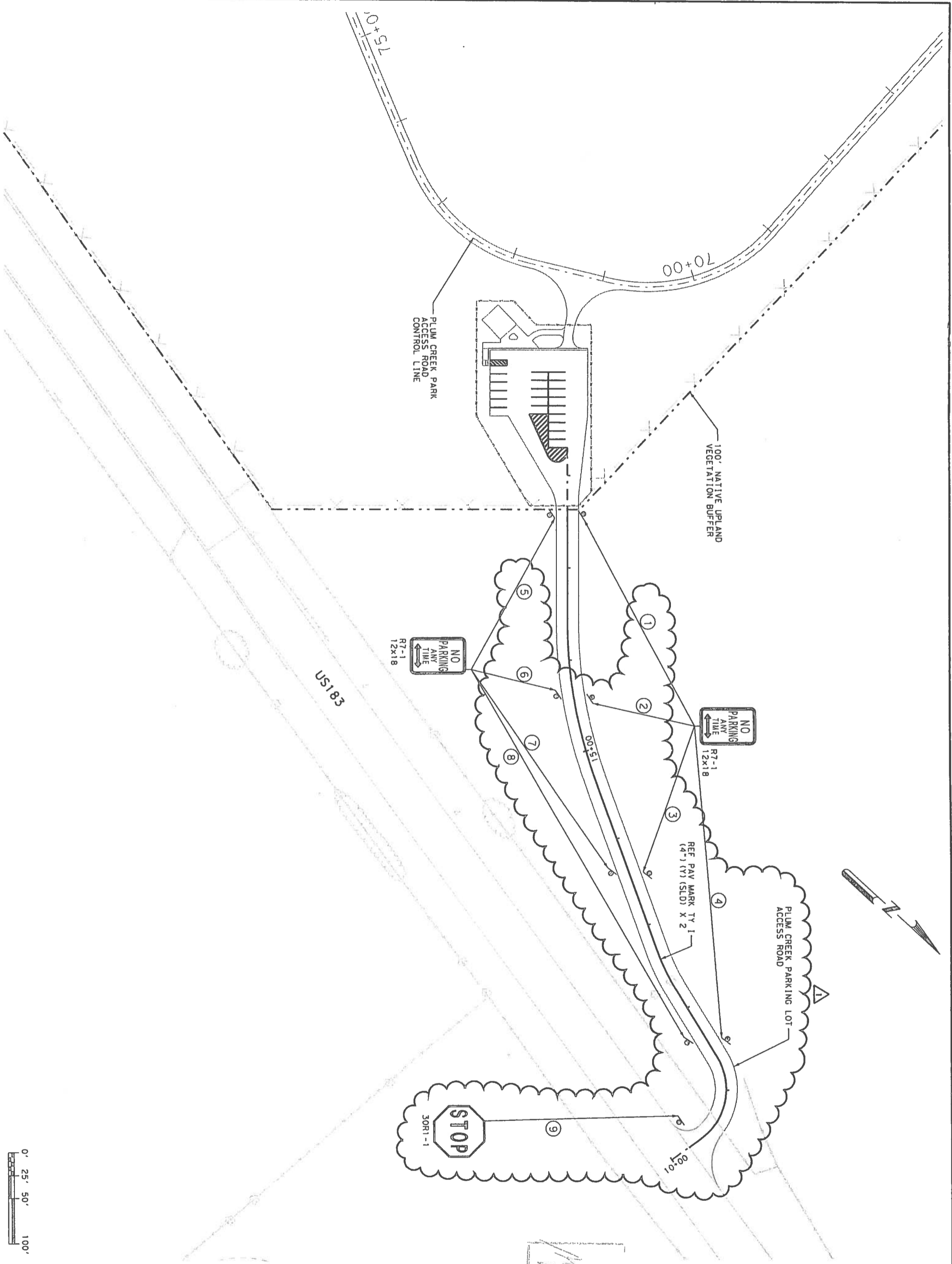
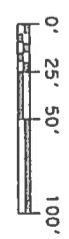
TEXAS DEPARTMENT OF TRANSPORTATION
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SEGMENT 5, SECTION 11
PLUM CREEK MITIGATION PA
SIGNING AND PAYMENT MARK
US183 / PARK ACCESS ROA

SCALE: 1" = 100'

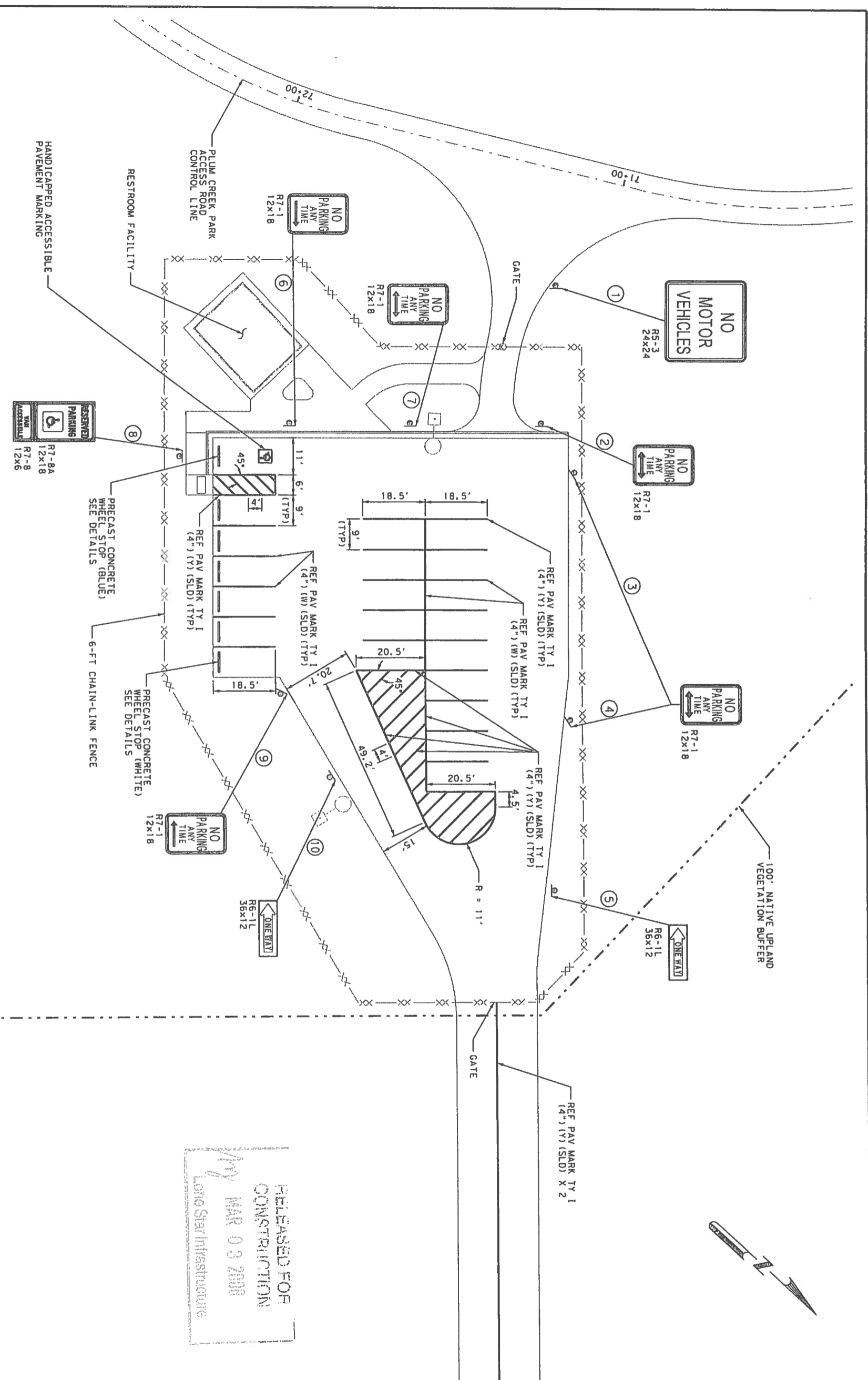
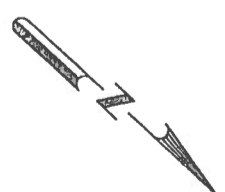
SHEET 1 OF 3 SHEET

REVISION NO.	DATE	BY	DESCRIPTION
6	02-14-08	BMD	PROJECT
5	02-14-08	BMD	PROJECT
4	02-14-08	BMD	PROJECT
3	02-14-08	BMD	PROJECT
2	02-14-08	BMD	PROJECT
1	02-14-08	BMD	PROJECT

STATE	DISTRICT	COUNTY
TX	AUS	H
CONTRACT	SECTION	JOB



REV	DATE	BY	DESCRIPTION
0	02/27/08	BMD/A	APPROVED FOR CONST



NOTE:
1. FOR ADDITIONAL INFORMATION
ON THE GATE AND FENCE,
SEE DWG NO PP61.

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MAR 03 2008
Lone Star Infrastructure

0' 7.5' 15' 30'

Brian W. Dodson
90526
PROFESSIONAL ENGINEER
STATE OF TEXAS

TEAM MEMBER
DANIEL HARRIS

TEXAS DEPARTMENT OF TRANSPORTATION
SEGMENT 5, SECTION 11
PLUM CREEK MITIGATION PA
SIGNING AND PAVEMENT MARK
PARKING LOT

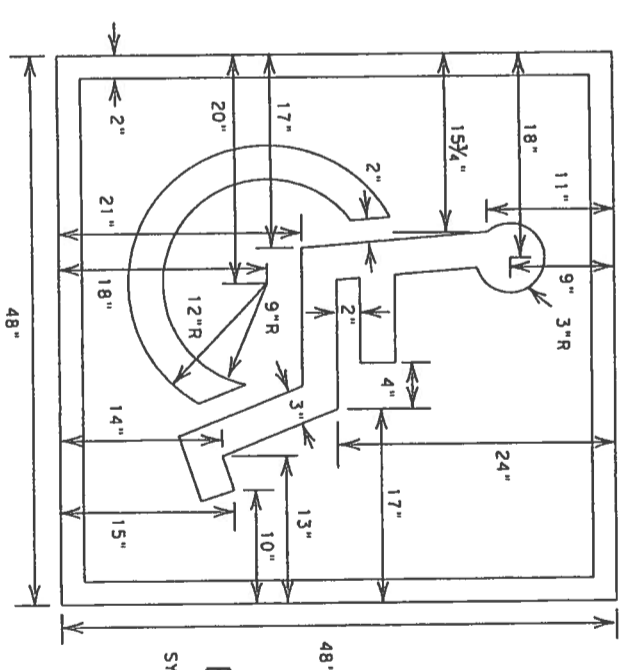
SCALE: 1" = 30'

SHEET 2 OF 3 SHEET

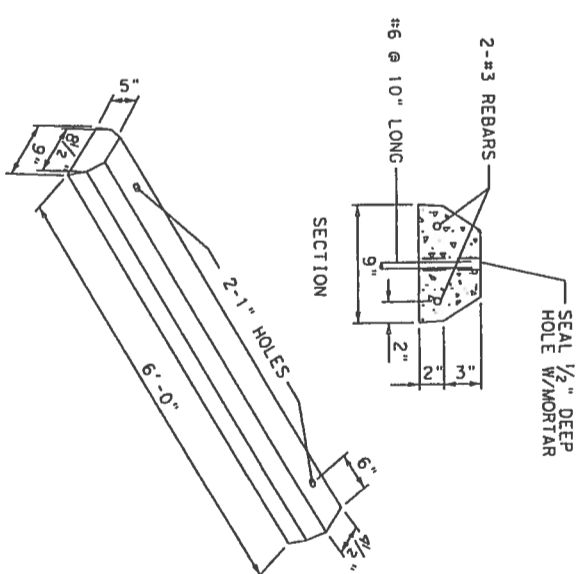
DESIGNED BY: JOB	CHECKED BY: BMD	DATE: 0
DRAWN BY: JOB	CHECKED BY: BMD	DATE: 0
APPROVED BY: BMD	DATE: 02-13-08	PROJECT
FED. FED. AID PROJECT NO.	SHEET NAME	
6 86-2XXDB001		
STATE DISTRICT	COUNTY	
TX AUS		
CNCT SECT	JOB	H

SIGN DIMENSIONS					REFLECTIVE SHEETING	PLYWOOD TYPE A	ALUMINUM TYPE A	ALUMINUM TYPE G	FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	Posts (1 or 2)	Anchor Type UA = Univer-Conc UB = Univer-Bolt WA = Wedge-Conc SA = Slip-Conc SB = Slip-Bolt	Mounting Designation P = Prefab. "Plain" T = Prefab. "T" U = Prefab. "U"	1EXT or 2EXT = # of Ext. BM = Extruded Wind Beam WC = 1.12 #/ft Wing Chan. EXAL = Extruded Alum. signs
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	30X30	C	✓				10 BWG	1	WA	P		
←	→	24X24	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	36X12	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	12X6	C	✓				TWT	1	WA	P		
←	→	12X18	C	✓				TWT	1	WA	P		
←	→	36X12	C	✓				TWT	1	WA	P		

SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)



With Background
SYMBOL & BORDER: WHITE
BACKGROUND: BLUE



RELEASED FOR
CONSTRUCTION
MAR 20 2008
Lane Star Infrastructure

TEAM MEMBER
 DWAM-HARRIS
 TEXAS DEPARTMENT OF TRANSPORTATION
 SEGMENT 5, SECTION 1
 PLUM CREEK MITIGATION P
 SIGNING AND PAYMENT MAR
 SIGN SUMMARY AND DETAI

SHEET 3 OF 3 SHEE
 SCALE: NONE
 INSTALLED BY: JOB CHECKED BY: BMD DATE:
 DRAWN BY: JOB CHECKED BY: BMD DATE:
 APPROVED BY: BMD DATE: 02-13-08
 FED. AID PROJECT NO. SHEET NAME
 6 B6-2XXDB001

STATE	DISTRICT	COUNTY
TX	AUS	
CONTRACT	JOB	

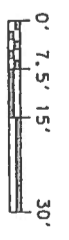
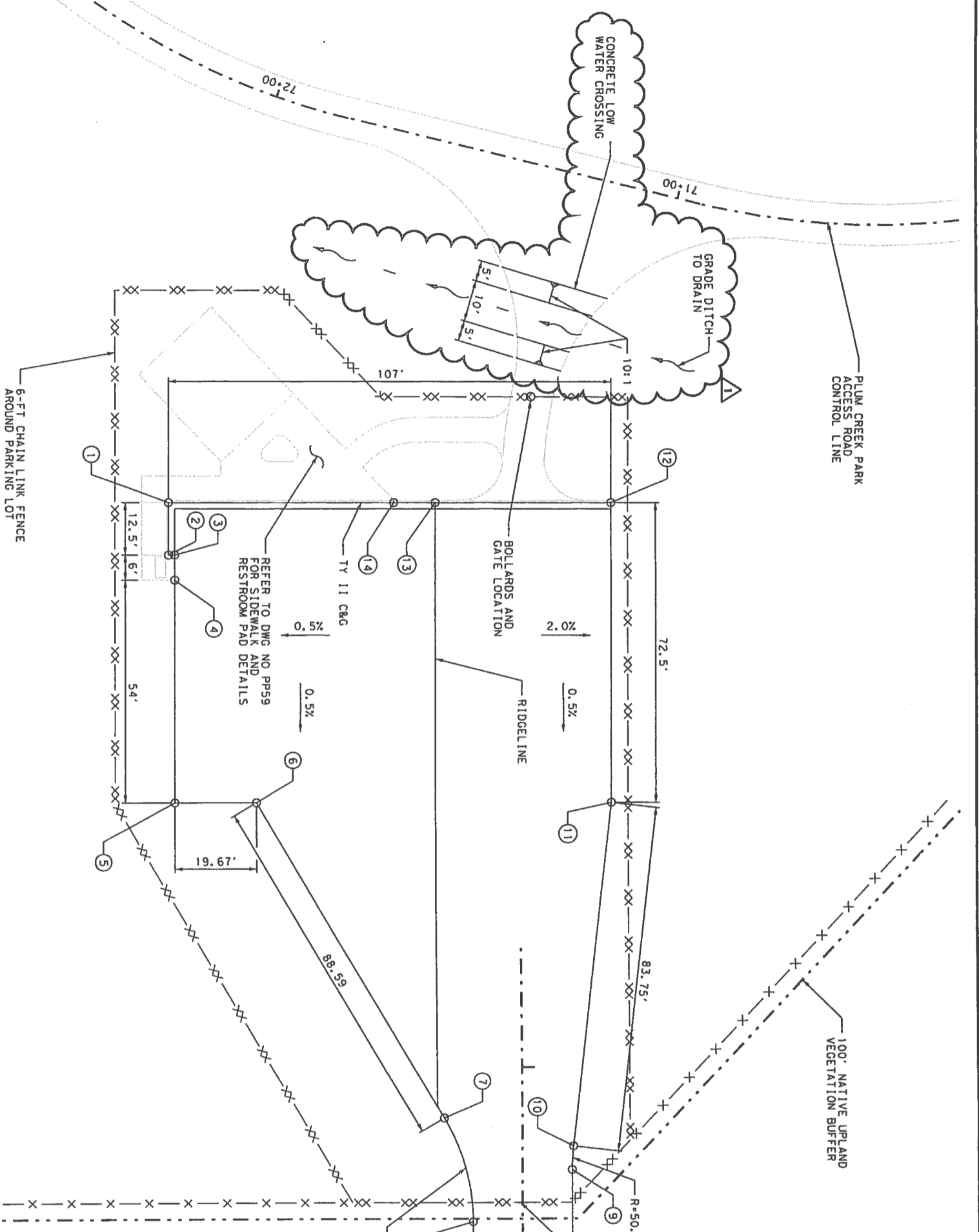
REV	DATE	BY	DESCRIPTION
0	02/27/08	BMD	APPROVED FOR CONST
1	03/25/08	BMD	775 AFC

REV	DATE	BY	DESCRIPTION
0	02/27/08	BMD	APPROVED FOR CONST
1	03/25/08	BMD	DOC 719 AFC

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CONSTRUCTION
MAR 20 2008
oneStepInfrastructure

POINT	STATION (PLUM CREEK)	OFFSET (L1)	ELEVATION	ELEVATION (LIP OF GUTTER)
1	71+95.03	446.49	446.99	446.49
2	71+92.69	446.42	446.92	446.42
3	71+91.81	113.07	446.43	
4	71+90.76	118.82	446.40	
5	71+82.93	170.95	446.13	
6	71+64.78	166.32	446.16	
7	71+03.15	229.95	446.42	
8	70+92.74	252.99	446.48	
9	70+83.87	235.64	446.45	
10	70+84.18	229.90	446.44	
11	70+87.19	146.38	445.80	
12	70+98.42	75.65	446.96	446.46
13	71+39.73	85.66	447.31	446.81
14	71+49.45	88.01	447.26	446.76

- NOTES:
- GATE AT PARK ENTRANCE SHALL PROVIDE ACCESS ACROSS WIDTH OF ROADWAY.
 - GATE AT TRAIL ENTRANCE SHALL PROVIDE ACCESS ACROSS WIDTH OF THE TRAIL.
 - BOLLARD AT TRAIL ENTRANCE SHALL BE FOLD DOWN / COLLAPSIBLE POLE.
 - AT CONTRACTORS OPTION LOCATION OF THE FENCE CAN BE ADJUSTED, PROVIDED THAT THE ENTRANCE AREA IS FULLY ENCLOSED AND GATES ARE PROVIDED AT THE ROADWAY AND TRAIL ENTRANCE.



TEXAS DEPARTMENT OF TRANSPORT
 SEGMENT 5, SECTION 1
 PLUM CREEK MITIGATION P1
 PARKING LOT DETAILS

TEAM MEMBER
 DILLON HARRIS

PROFESSIONAL ENGINEER
 BRIAN W. DODSON
 90526

STATE OF TEXAS
 LICENSED PROFESSIONAL ENGINEER

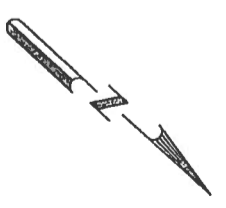
SCALE: 1" = 30'

SHEET 1 OF 1 SHEET

DESIGNED BY	DATE	CHECKED BY	DATE
DRAWN BY	DATE	CHECKED BY	DATE
APPROVED BY	DATE	DATE	PROJECT
FED. AID PROJECT NO.	SHEET NAME		
STATE	DISTRICT		
TX	AUS		
CNT	SECT		

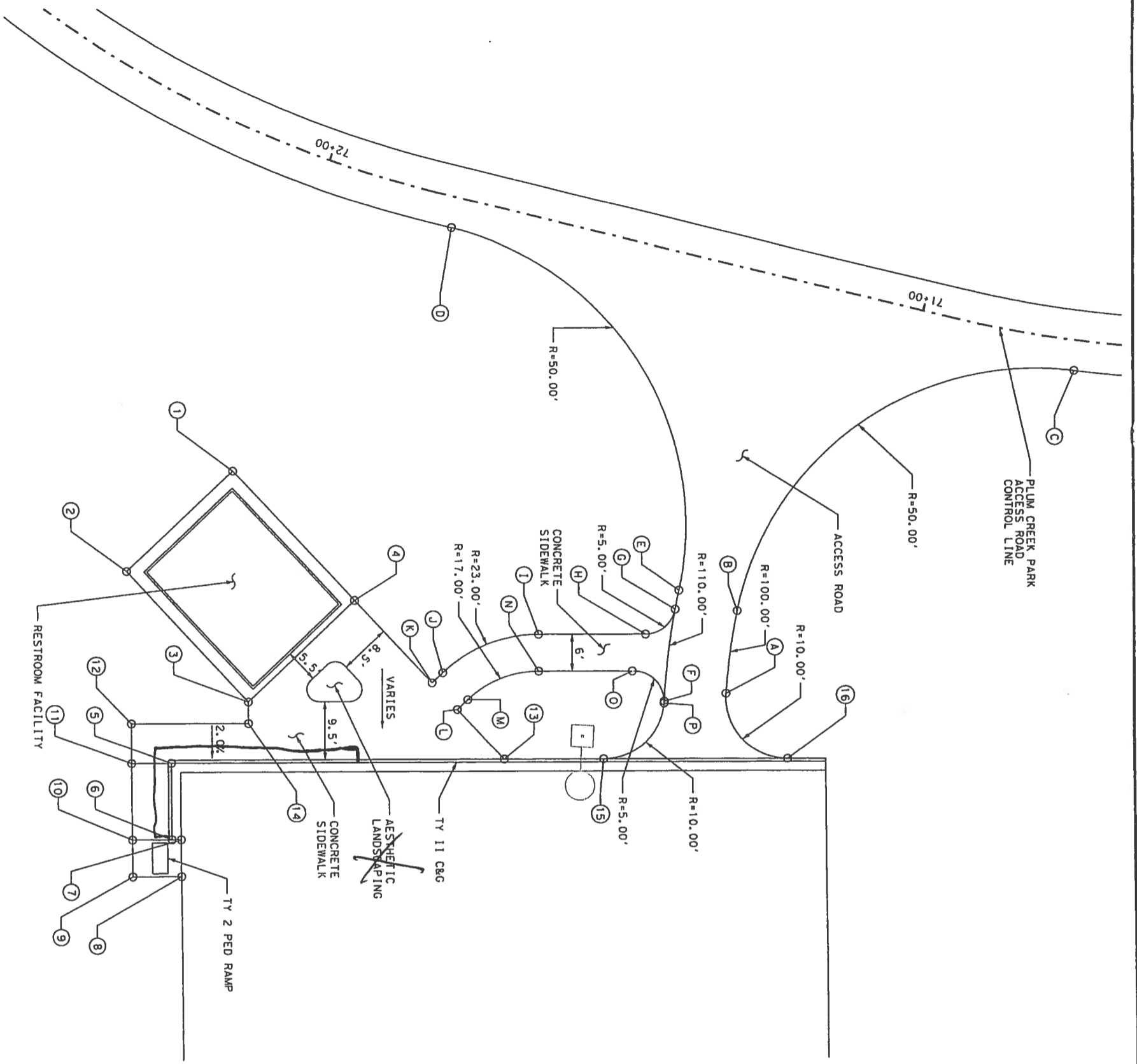
REV	DATE	BY	DESCRIPTION
0	02/27/08	BMD	APPROVED FOR CONST

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CONSTRUCTION
MAY MAR 03 2009
Lions Star Infrastructure

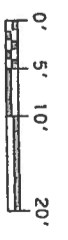


POINT	STATION (PLUM CREEK)	OFFSET (L/T)	ELEVATION	ELEVATION FLIP OF	LOCATION
1	71+98.69	53.20	447.25		RESTROOM
2	72+06.62	74.67	447.25		RESTROOM
3	71+89.00	88.35	447.25		RESTROOM
4	71+79.35	68.05	447.25		RESTROOM
5	71+95.03	101.58	446.99	446.49	CRG
6	71+92.69	113.51	446.92	446.42	CRG
7	71+91.81	113.07	446.43		SIDEWALK
8	71+90.76	118.82	446.40		SIDEWALK
9	71+95.35	121.18	446.36		SIDEWALK
10	71+96.47	115.48	446.39		SIDEWALK
11	71+98.96	103.64	446.95		SIDEWALK
12	72+00.33	97.50	447.08		SIDEWALK
13	71+49.57	87.52	447.26		SIDEWALK
14	71+88.37	91.72	447.18		SIDEWALK
15	71+33.79	83.70	447.18		ACCESS ROAD
16	71+04.58	76.63	446.58		ACCESS ROAD

POINT	STATION (PLUM CREEK)	OFFSET (L/T)	LOCATION
A	71+16.79	68.56	ACCESS ROAD
B	71+18.13	55.04	ACCESS ROAD
C	70+74.24	5.00	ACCESS ROAD
D	71+78.14	5.00	ACCESS ROAD
E	71+28.15	54.07	ACCESS ROAD
F	71+26.31	72.15	ACCESS ROAD
G	71+28.05	57.18	TRAIL
H	71+31.87	62.28	TRAIL
I	71+48.83	66.38	TRAIL
J	71+62.66	76.15	TRAIL
K	71+63.95	78.12	TRAIL
L	71+58.93	81.40	TRAIL
M	71+57.64	79.43	TRAIL
N	71+47.41	72.21	TRAIL
O	71+32.68	68.65	TRAIL
P	71+26.25	72.49	TRAIL



NOTE:
1. FOR INFORMATION ON RESTROOM FACILITY FOUNDATION SEE MANUFACTURER DETAILS (CTX PRECAST PRODUCTS, TADS BUILDING).



DESIGNED BY: JOB 1
CHECKED BY: BMD
DATE: 02-14-08

APPROVED BY: BMD
DATE: 02-14-08

FED. AID PROJECT NO.: B6-2XXDB001
SHEET NAME: SECTION 5 : SECTION 1 PLUM CREEK MITIGATION P/SIDEWALK AND RESTROOM P DETAILS

STATE: TX
DISTRICT: AUS
COUNTY: 1

SCALE: 1" = 20'

SHEET 1 OF 1 SHEET

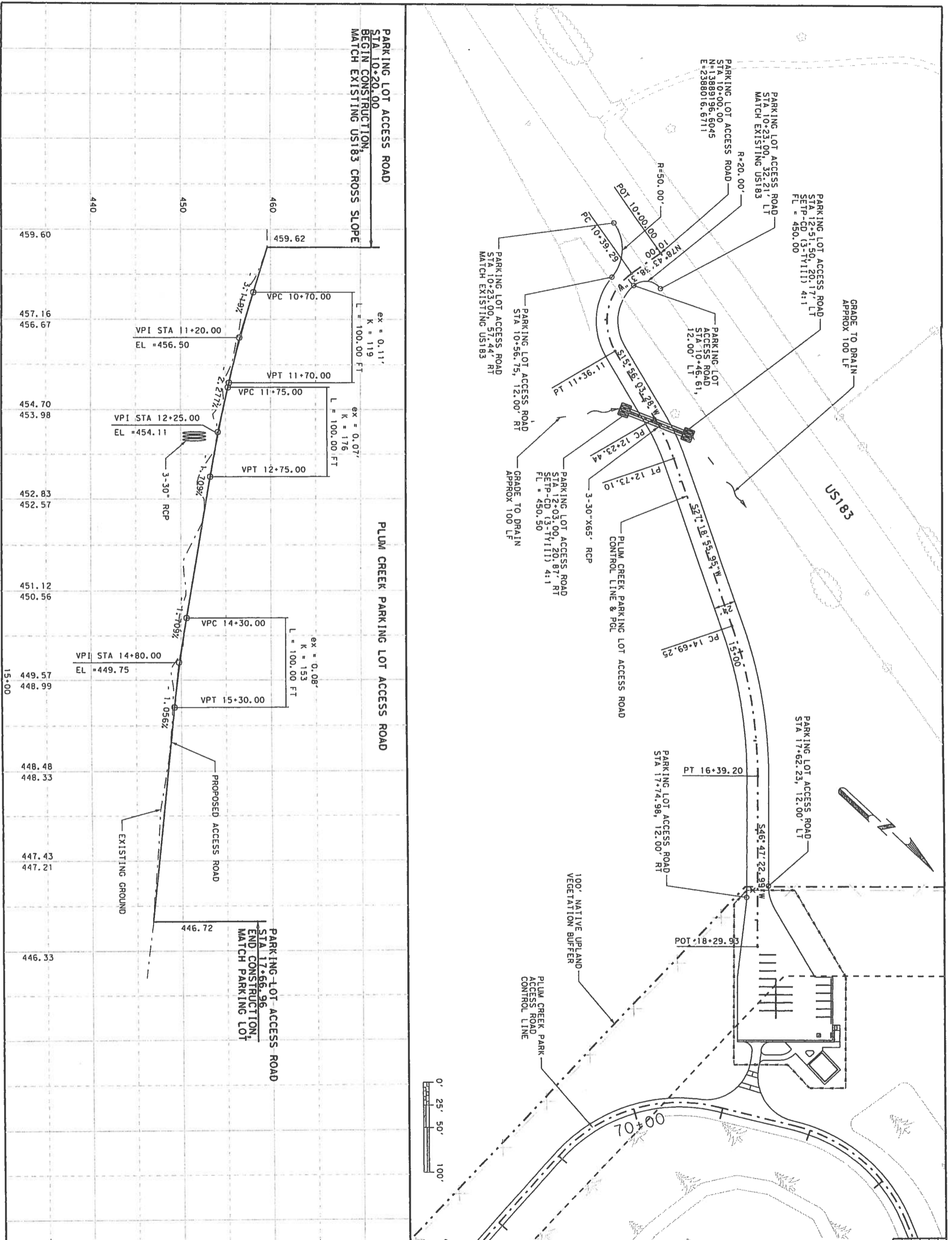
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STATE: TX
DISTRICT: AUS
COUNTY: 1

BRIAN W. DODSON
PROFESSIONAL ENGINEER
LICENSE NO. 90526
STATE OF TEXAS



REV	DATE	BY	DESCRIPTION				
0	03/25/08		APPROVED FOR CONST				

RELEASED FOR CONSTRUCTION

MAR 29 2008

Lone Star Infrastructure

DANIEL FLORES
92488
LICENSED PROFESSIONAL ENGINEER

ANDRESS E. CARDENAS
88453
LICENSED PROFESSIONAL ENGINEER

FOR ROADWAY ONLY

FOR DRAINAGE ONLY

TEAM MEMBER
DANIEL FLORES

TEAMS DEPARTMENT OF TRANSPORTATION
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SEGMENT 5, SECTION 1
PLUM CREEK MITIGATION PLAN AND PROFILES
PARKING LOT ACCESS ROAD

HORIZONTAL: 1" = 100'
VERTICAL: 1" = 10'

SHEET 1 OF 1 SHEET

DESIGNED BY	DATE	CHECKED BY	DATE
DRAWN BY	DATE	APPROVED BY	DATE
FED. AID PROJECT NO.	SHEET NAME		
6186-2X0B001			
STATE	DISTRICT	COUNTY	
TX	AUS		
COMT	SECT	JOB	