

5/21/2020 10:51 PM U:\Bols\Projects\Clients\4886-City of Lewiston\314-4886-002 9th St Grade\995vcs\CADD\Drawn\Sheets\18938-111-001.sht

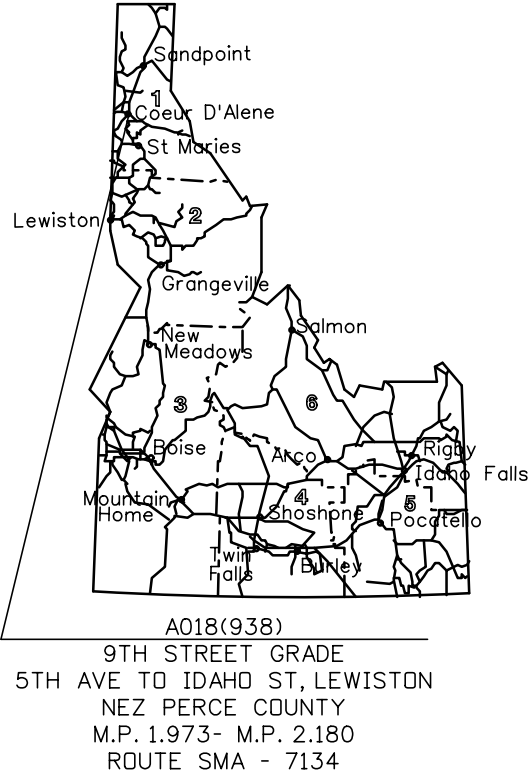
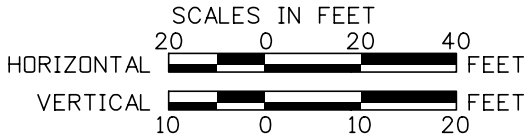
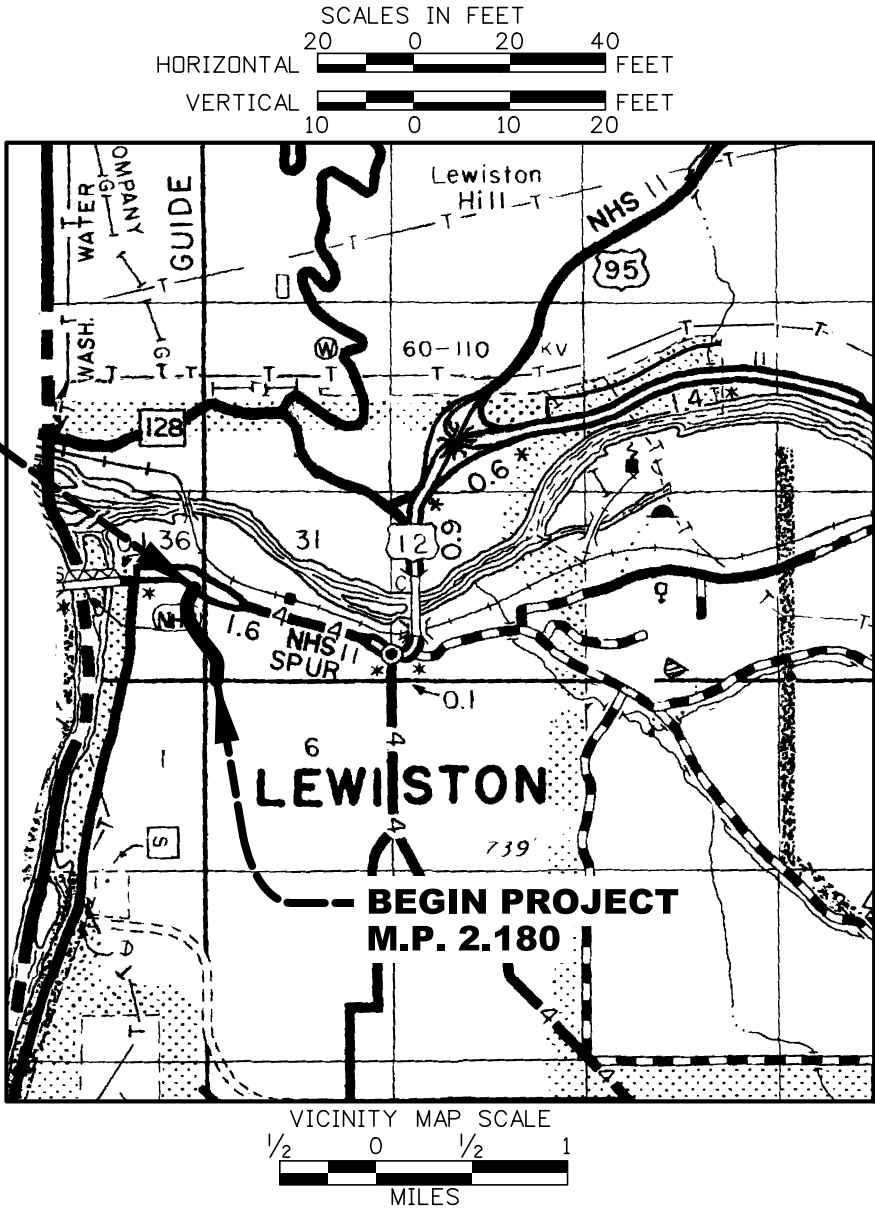
INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT CLEARANCE SUMMARY
3	TYPICAL SECTIONS
4-5	ROADWAY SUMMARY
6	STORM SEWER PIPE SUMMARY
7-10	PLAN & PROFILE SHEETS
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12-13	SIGNING & PAVEMENT MARKING PLANS
14	ROAD CLOSURE
15-16	SITUATION AND LAYOUT
17	DESIGN AND GENERAL NOTES
18	WALL DETAILS
19	MOMENT SLAB DETAILS (7' SIDEWALK)
20	CONCRETE PARAPET FOR COMBINATION RAIL
21	COMBINATION PED/BICYCLE RAIL

CITY OF LEWISTON MONUMENTS AND CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
402584	1734561.939	2303309.601	834.776	FOUND 1/2" REBAR
402586	1734558.219	2303309.325	834.624	FOUND 1/2" REBAR
402589	1734561.992	2303307.586	834.373	FOUND 3/4" IRON PIPE
402595	1734522.275	2303288.691	834.613	FOUND 1" IRON PIPE
402602	1734482.115	2303301.962	837.185	FOUND PK WASHER LS6081
402605	1734344.701	2303549.798	772.583	FOUND 1/2" IRON ROD
402609	1734356.740	2303586.899	748.754	FOUND 1" REBAR
402614	1734345.900	2303597.102	749.240	FOUND PK NAIL (CP 1)
402617	1734075.159	2303608.877	838.320	FOUND PK NAIL (CP 28)
402621	1734143.523	2303820.526	740.292	FOUND 5/8" REBAR
402624	1733964.831	2303941.637	745.545	FOUND 5/8" REBAR & CAP
402627	1733977.601	2304097.913	736.658	FOUND PK NAIL (CP 27)
402630	1733719.469	2303991.332	820.623	FOUND PK NAIL (CP 2)
402633	1733280.111	2303609.873	850.618	FOUND 1/2" IRON ROD
402656	1734024.867	2303621.840	839.015	FOUND MONUMENT
402666	1733915.274	2304054.178	736.705	FOUND MONUMENT
402676	1733660.021	2303615.928	842.645	FOUND MONUMENT

FINAL DESIGN
SUBMITTAL
MAY 2020

IDAHO
TRANSPORTATION DEPARTMENT
PLAN AND PROFILE OF PROPOSED
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON
FEDERAL AID PROJECT NO. A018(938)
KEY NO. 18938
NEZ PERCE COUNTY
MAY, 2020

A018(938)
END PROJECT
M.P. 1.973



DESIGN DESIGNATION	
ADT 2017	4,002
ADT 2037	4,883
DHV 2017	465
DHV 2037	567
D	50/50%
V	25 MPH
TRUCKS:	
ADT 2017	240
ADT 2037	293
DHV 2017	28
DHV 2037	34

REVISIONS			
NO.	DATE	BY	DESCRIPTION

THE DIMENSIONS
SHOWN ON THE
PLANS SHALL BE
ATTAINED WITHIN
LIMITS OF
PRECISION THAT
GOOD CONSTRUCTION
PRACTICES
WILL PERMIT

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 18938_titl_001.sht
DRAWING DATE: MAY 2020

IDAHO
TRANSPORTATION
DEPARTMENT

DISTRICT 2

PROJECT NO.
A018(938)

TITLE SHEET
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 1 OF 21

Approved By: DE
Date Approved

NOT
APPROVED
FINAL DESIGN
FOR
CONSTRUCTION

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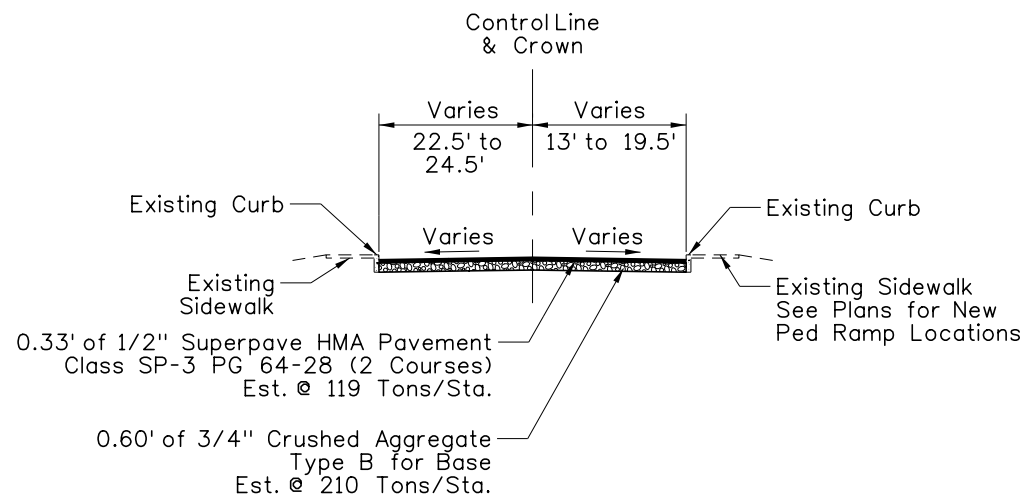
5/22/2020

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9TH STREET
TYPICAL SECTION

Scale 1"=20'

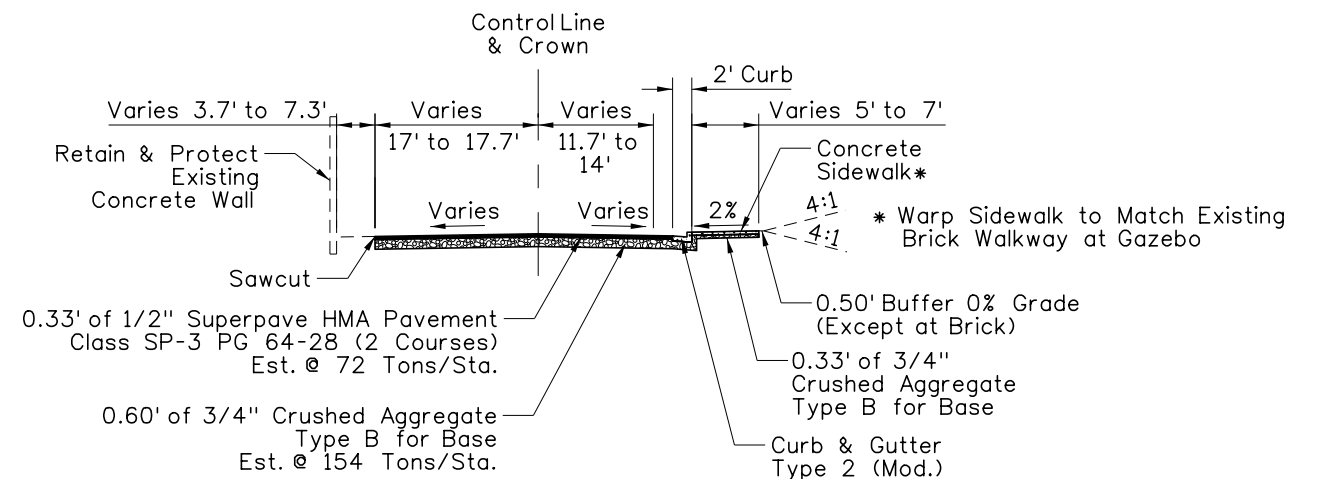
Sta. 10+10 to Sta. 11+30



9TH STREET
TYPICAL SECTION

Scale 1"=20'

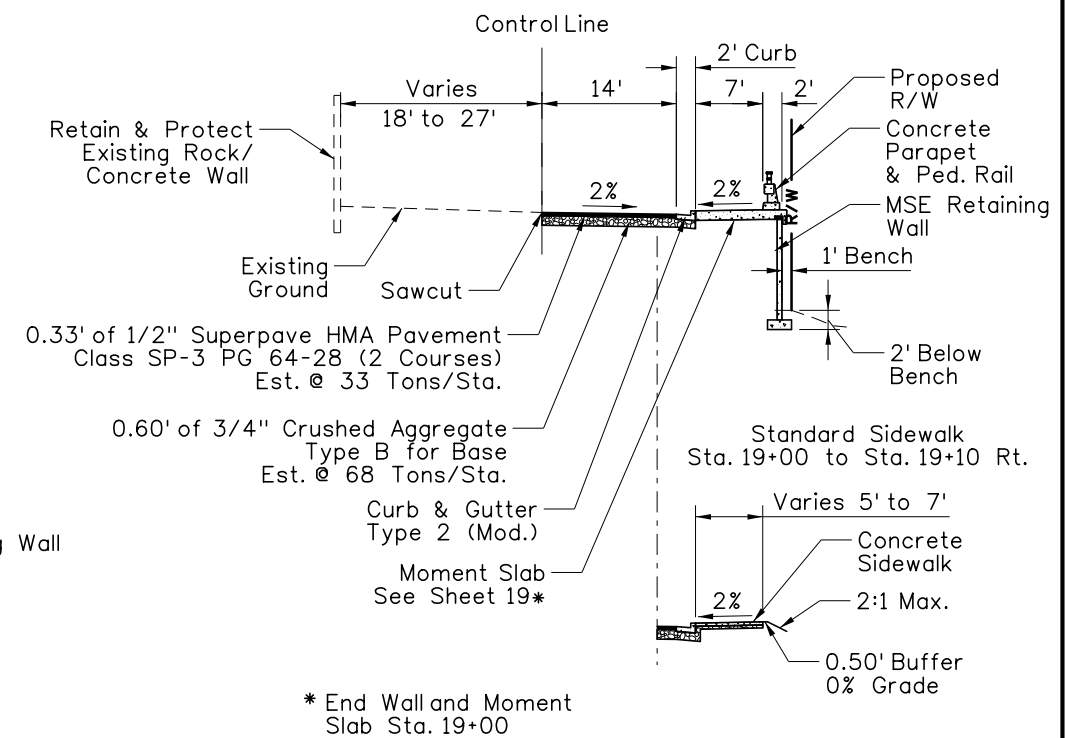
Sta. 11+30 to Sta. 12+00



9TH STREET
TYPICAL SECTION

Scale 1"=20'

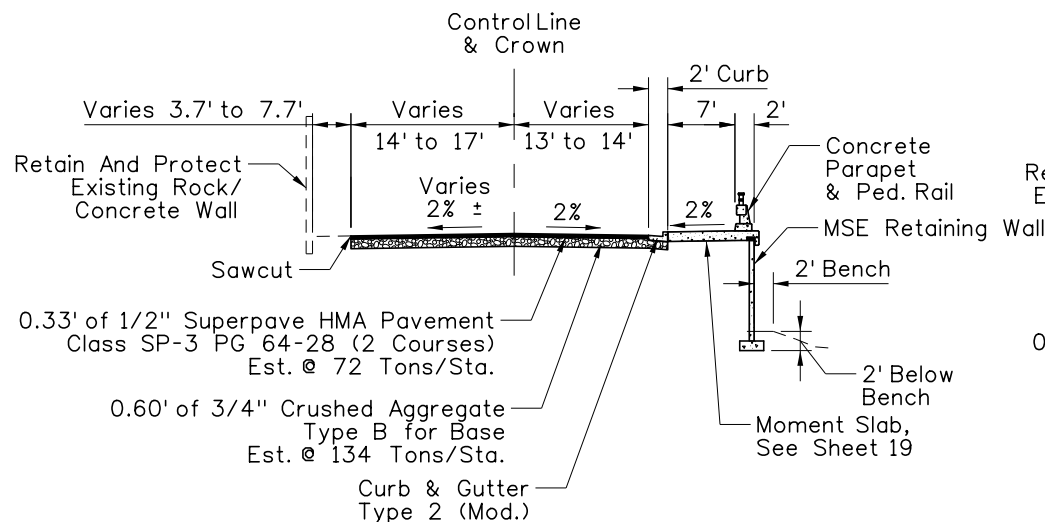
Sta. 17+50 to Sta. 19+10



9TH STREET
TYPICAL SECTION

Scale 1"=20'

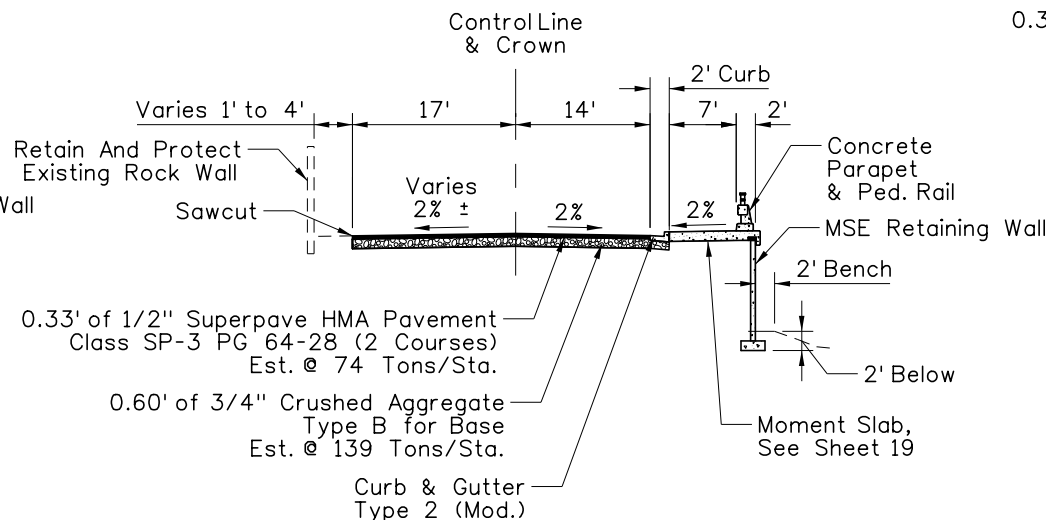
Sta. 12+00 to Sta. 13+66



9TH STREET
TYPICAL SECTION

Scale 1"=20'

Sta. 13+66 to Sta. 17+50



Typical Sections Not to Scale

REVISIONS				DESIGNED	KMD	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION			
				DESIGN CHECKED	CAJ	
				DETAILED	KMR	CADD FILE NAME 18938_typ_001.sht
				DRAWING CHECKED	KCC	DRAWING DATE: MAY 2020

IDAHO
TRANSPORTATION
DEPARTMENT

Parametrix

PROJECT NO.	TYPICAL SECTIONS	English
A018(938)	9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON	COUNTY Nez Perce
		KEY NUMBER 18938
		SHEET 3 OF 21

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SHEET NUMBER				Plan Sheet 7 to 8	Plan Sheet 9 to 10	SPMP 12	SPMP 13	Detour 14	Structures 15 to 21										
STATION TO STATION				BEGIN to 14+50	14+50 to END	BEGIN to 14+50	14+50 to END												
ITEM NO.	ITEM	UNIT	TOTAL																
201-005A	CLEARING & GRUBBING	ACRE	1																
202-005A	SELECTME REM OF TREES	EACH	2		2														
203-015A	REM OF BITUMINOUS SURF	SY	3,181	1840	1341														
203-025A	REM OF CATCH BASIN	EACH	2	1	1														
203-060A	REM OF CONC SIDEWALK	SY	65	58	7														
203-065A	REM OF CURB	FT	855	404	451														
203-125A	REM OF MISCELLANEOUS ITEMS (RETAINING WALL)	LS	1																
205-005A	EXCAVATION	CY	4,100																
205-040A	GRANULAR BORROW	CY	3,500																
205-060A	WATER FOR DUST ABATEMENT	MG	35																
210-015A	COMPACTING BACKFILL	CY	300																
212-020A	SILT FENCE	FT	736	286	450														
212-095A	INLET PROTECTION	EACH	6	2	4														
212-105A	WATER POLLUTION AND EROSION CONTROL	CA	20,000																
213-005A	TOPSOIL (6")	CY	94	36	58														
303-022A	3/4" AGGR TY B FOR BASE	TON	1,222																
401-020A	CSS-1 DIL EMUL ASPH FOR TACK COAT	GAL	250																
405-435A	SUPERPAVE HMA PAV INCL ASPH&ADD CL SP-3	TON	650																
504-040A	COMB PED/BICYCLE & TRAF RAILING	FT	697	262	435														
584-005A	TEMPORARY SHORING	LS	1																
605-025A	12" STORM SEWER PIPE	FT	9		9														
605-635A	ADJUST MANHOLE COVERS	EACH	3		3														
605-640A	ADJUST VALVE COVERS	EACH	1	1															
614-015A	SIDEWALK	SY	60	53	7														
614-025A	CURB RAMP (PERPENDICULAR)	SY	17	17															
614-025B	CURB RAMP (PARALLEL)	SY	10	10															
615-257A	CURB TY 2	FT	71	71															
615-492A	CURB & GUTTER TY 2 (MOD)	FT	787	334	453														
616-010A	SIGN TY B	SF	18			9	9												
616-050A	BRKAWY STL SIGN POST TY E	LB	170			85	85												
616-070A	BRKAWY STL SIGN POST INST TY E	EACH	2			1	1												
REVISIONS				DESIGNED		PROJECT NO.		ROADWAY SUMMARY				English COUNTY Nez Perce KEY NUMBER 18938 SHEET 4 OF 21							
NO.	DATE	BY	DESCRIPTION	KMD		A018(938)		9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON											
				DESIGN CHECKED	CAJ														
				DETAILED	KMR														
				DRAWING CHECKED	KCC														
				IDAHO TRANSPORTATION DEPARTMENT		Parametrix													
				SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY															
				CADD FILE NAME 18938_rdsm_001.sht															
				DRAWING DATE: MAY 2020															

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NOTE CONTINUATION
OF PREVIOUS SHEET

- 615-257A

9.00 FT

10+66.24 (27.63 L) - 10+74.75 (27.83 L)
- 18.00 FT

10+69.87 (20.02 R) - 10+86.87 (19.63 R)
- 8.00 FT

10+74.75 (27.83 L) - 10+79.64 (32.98 L)
- 5.00 FT

10+79.52 (37.00 L) - 10+79.64 (32.98 L)
- 3.00 FT

11+16.37 (39.98 L) - 11+16.75 (37.15 L)
- 23.00 FT

11+16.75 (37.15 L) - 11+32.66 (24.15 L)
- 5.00 FT

11+32.66 (24.15 L) - 11+38.00 (24.30 L)
- 615-492A

44.00 FT

11+30.00 (16.00 R) - 11+71.00 (13.67 R)
- 53.00 FT

11+7 1.00 (13.67 R) - 12+20.00 (16.00 R)
- 83.00 FT

12+20.00 - 12+96.26 16.00 R
- 154.00 FT

12+96.26 - 14+50.00 16.00 R
- 621-005A

0.10 ACRE

11+90.00 (30.59 R) - 14+50.00 (25.00 R)
- 621-010A

0.10 ACRE

11+90.00 (30.59 R) - 14+50.00 (25.00 R)
- 621-015A

0.10 ACRE

11+90.00 (30.59 R) - 14+50.00 (25.00 R)
- 621-035A

0.10 ACRE

11+90.00 (30.59 R) - 14+50.00 (25.00 R)
- S501-30D

262.00 FT

12+00.00 (24.06 R) - 14+50.00 (25.00 R)
- S901-05C

1.00 EACH

12+51.39 28.06 R
- 1.00 EACH

13+99.77 21.70 R

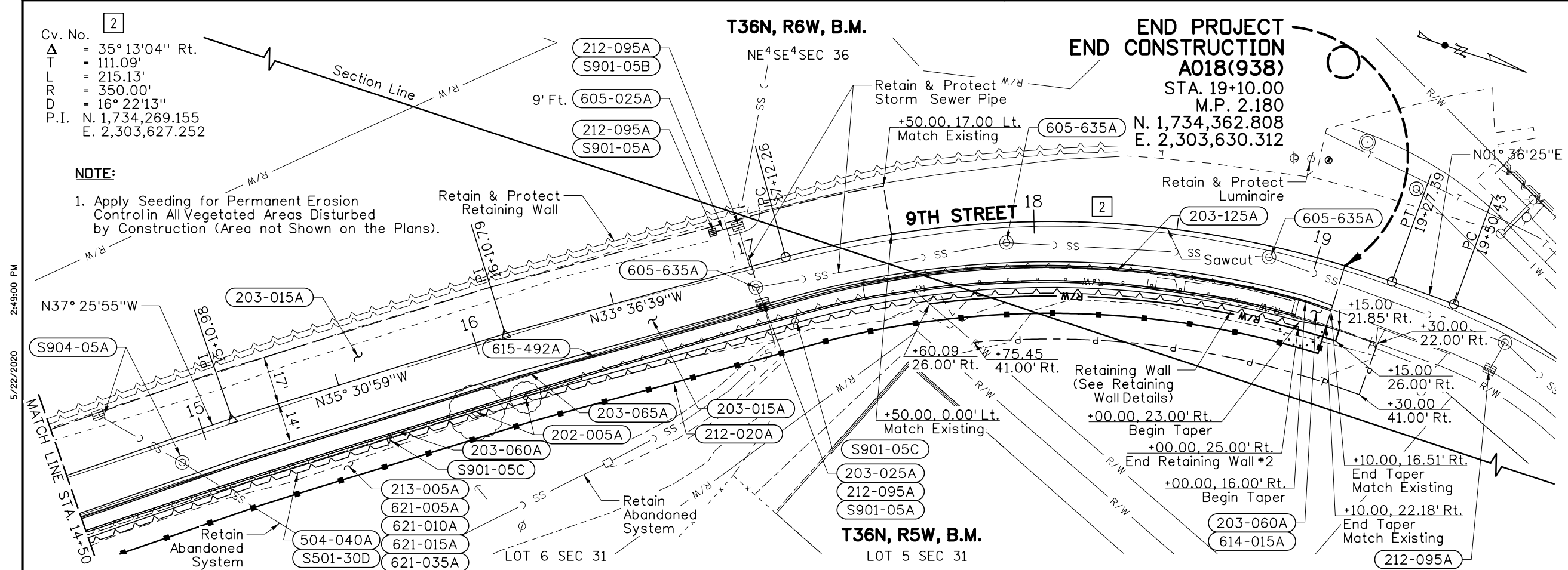
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NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED			
				CAJ			
				DETAILED	KMR	CADD FILE NAME 18938_note_001.sht	Parametrix
				DRAWING CHECKED	KCC	DRAWING DATE: MAY 2020	



PROJECT NO.	NOTES (CONTINUED)
A018(938)	9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON BEGIN TO STA. 14+50

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 8 OF 21

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NOTE CONTINUATION
OF PREVIOUS SHEET

- 621-035A FERTILIZING**
0.10 ACRE 14+50.00 (25.00 R) - 19+10.00 (22.18 R)
- S501-30D SP BRIDGE, MOMENT SLAB**
435.00 FT 14+50.00 - 19+00.00 25.00 R
- S901-05A SP LEWISTON TYPE I CATCH BASIN**
1.00 EACH 16+90.00 15.00 L
1.00 EACH 17+00.00 16.00 R
- S901-05B SP ADJUST INLET TO GRADE**
1.00 EACH 16+99.06 14.92 L
- S901-05C SP REMOVE AND RESET LUMINAIRE**
1.00 EACH 15+61.71 23.62 R
1.00 EACH 17+09.56 22.56 R
- S904-05A SP ABANDON STORM DRAIN**
Lump Sum 14+67.31 (16.33 L) - 15+02.65 (25.00 R)

REVISIONS				DESIGNED	KMD	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED		
					CAJ	
				DETAILED	KMR	CADD FILE NAME 18938_note_002.sht
				DRAWING CHECKED	KCC	DRAWING DATE: MAY 2020

IDAHO
TRANSPORTATION
DEPARTMENT



Parametrix

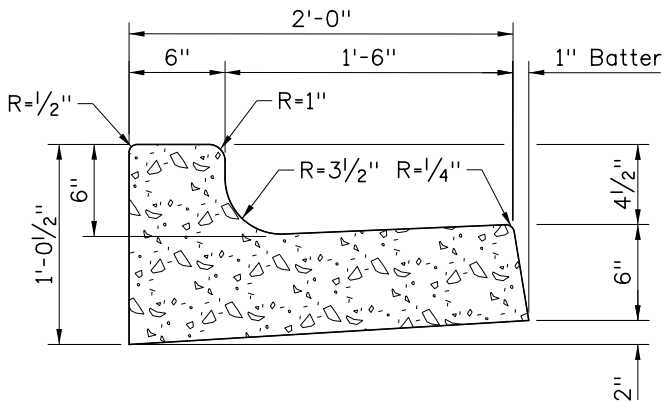
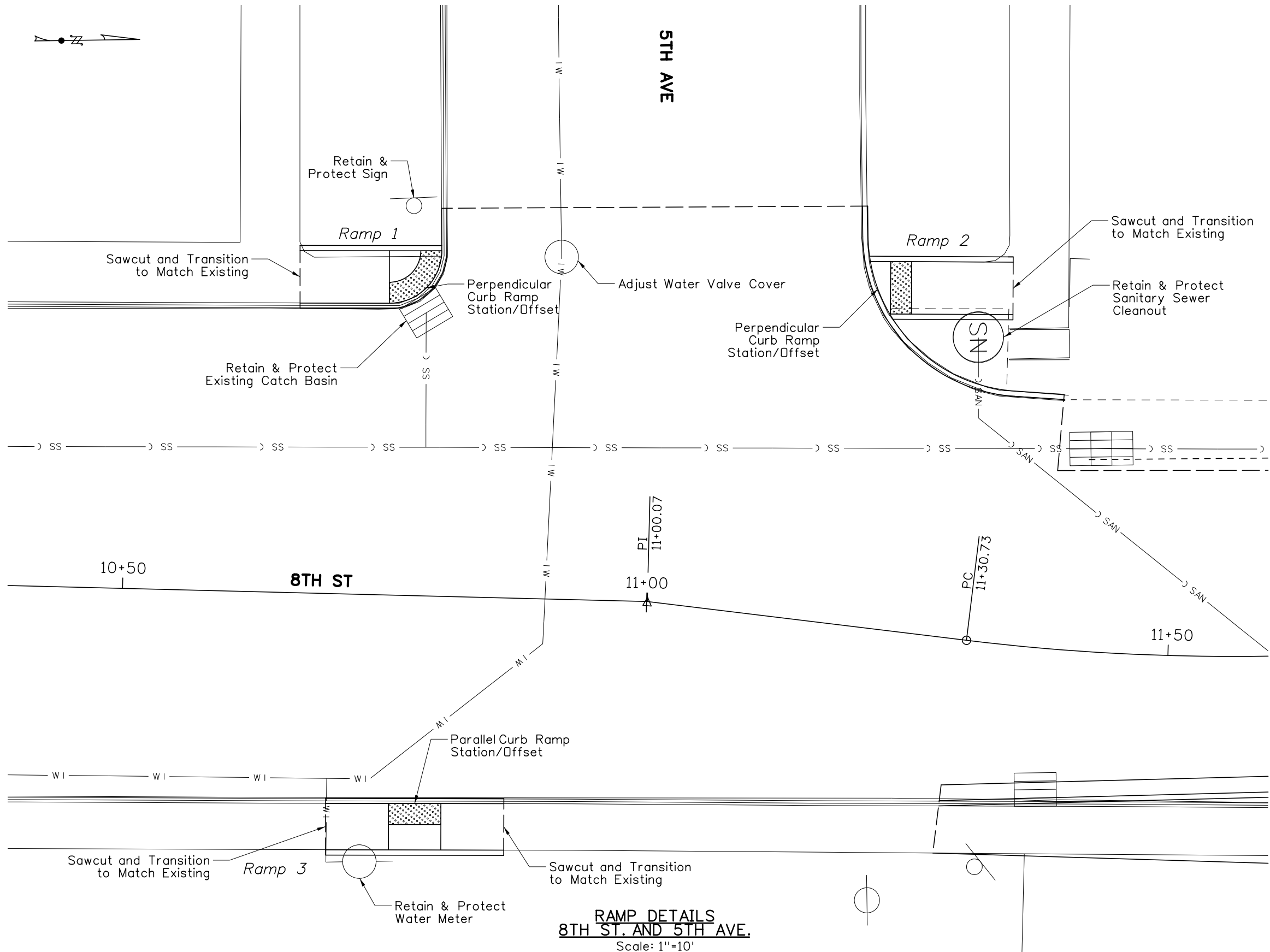
PROJECT NO.
A018(938)

NOTES (CONTINUED)
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON STA. 14+50 TO END

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 10 OF 21

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CONSTRUCTION

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	KMD
DESIGN CHECKED	CAJ
DETAILED	KMR
DRAWING CHECKED	KCC

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 18938_det1_001.sht
DRAWING DATE: MAY 2020

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TRANSPORTATION
DEPARTMENT

Parametrix

PROJECT NO.
A018(938)

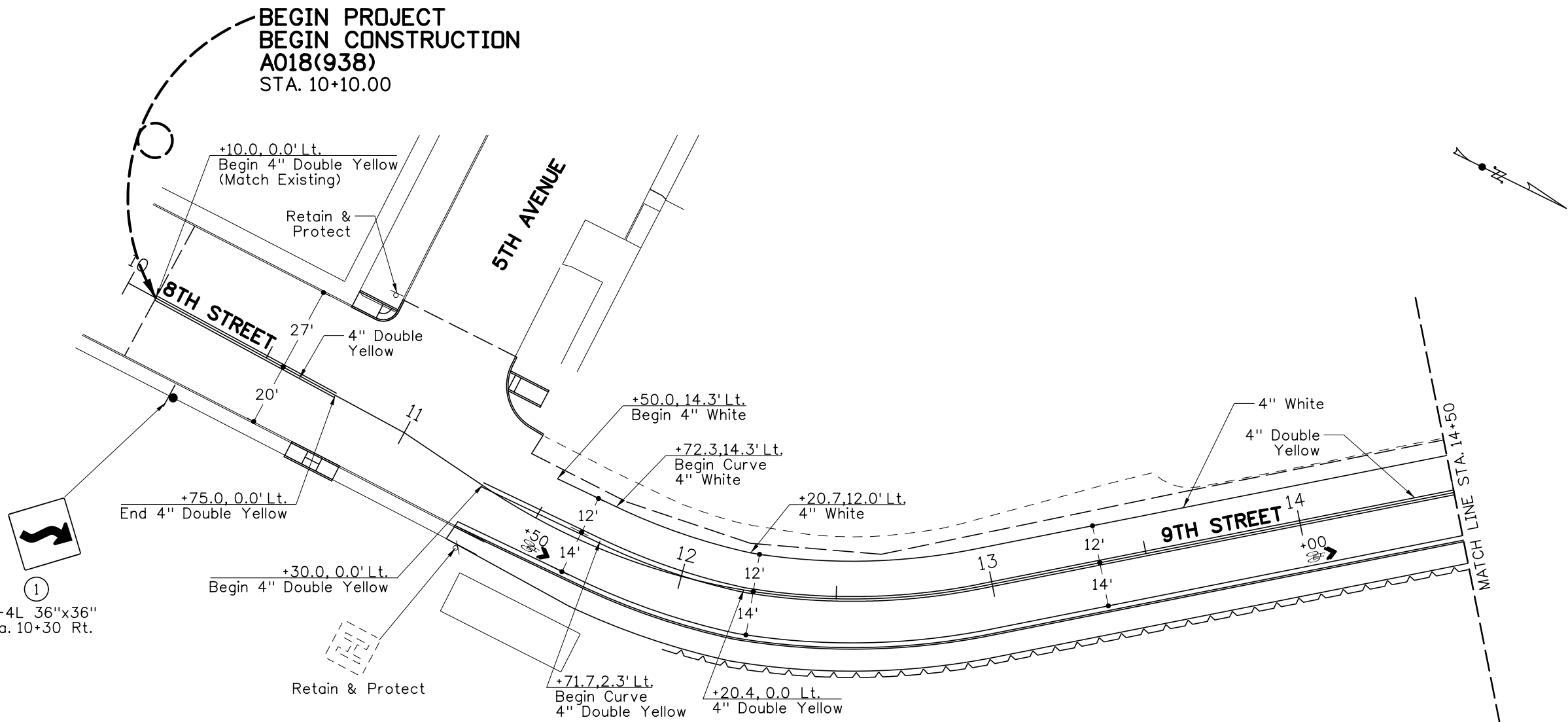
DETAIL SHEET
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 11 OF 21

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FOR
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FINAL DESIGN

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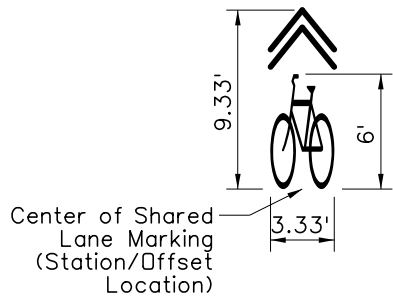
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- 630-020B

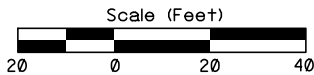
Pavement Markings
- Preformed Thermo
Shared Lane Marking
9 SF, Sta. 11+50, 9.0' Rt.
9 SF, Sta. 14+00, 11.5' Rt.
- 630-025A

Longitudinal Pav Mrk
- Waterborne
292 FT, White
Sta. 11+50 to Sta. 14+50
770 FT, Yellow
Sta. 10+10 to Sta. 14+50



SHARED LANE MARKING DETAIL

NOTE:
1. Contractor Shall Install Center of Shared Lane Marking at Least 4' Away From the Face of Curb



SIGN ASSEMBLY NO.	STATION LT. OR RT.	RAMP NO.	FOUNDATION SIZE	POST TYPE	NO. OF POSTS	POST SPACING	APPROX. LENGTH OF 1st POST	APPROX. LENGTH OF 2nd POST	POST LENGTH ABOVE FINISH SHOULDER	C	E	SIGN TYPE	SIGN DETAIL NUMBERS	SIGN SIZE W" x H" in x in	APPROX. SQ. FT. OF SIGN	SIGN BACKGROUND COLOR	SIGN BRACKETS & BRACE ANGLES WEIGHT (LBS)	BRACKET NO.
1	10+30 Rt.	8th Street	8"x8"x36"	E-2	1		12' - 3"		11' - 3"	5' - 6"	9' - 1"	B	W1-4L	36 x 36	9.0	YELLOW		
2		9th Street	8"x8"x36"	E-2	1		12' - 3"		11' - 3"	2' - 6"	7' - 1"	B	W1-4L	36 x 36	9.0	YELLOW		

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	KMD	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED	CAJ	
DETAILED	KMR	CADD FILE NAME 18938_smp_001.sht
DRAWING CHECKED	KCC	DRAWING DATE: MAY 2020

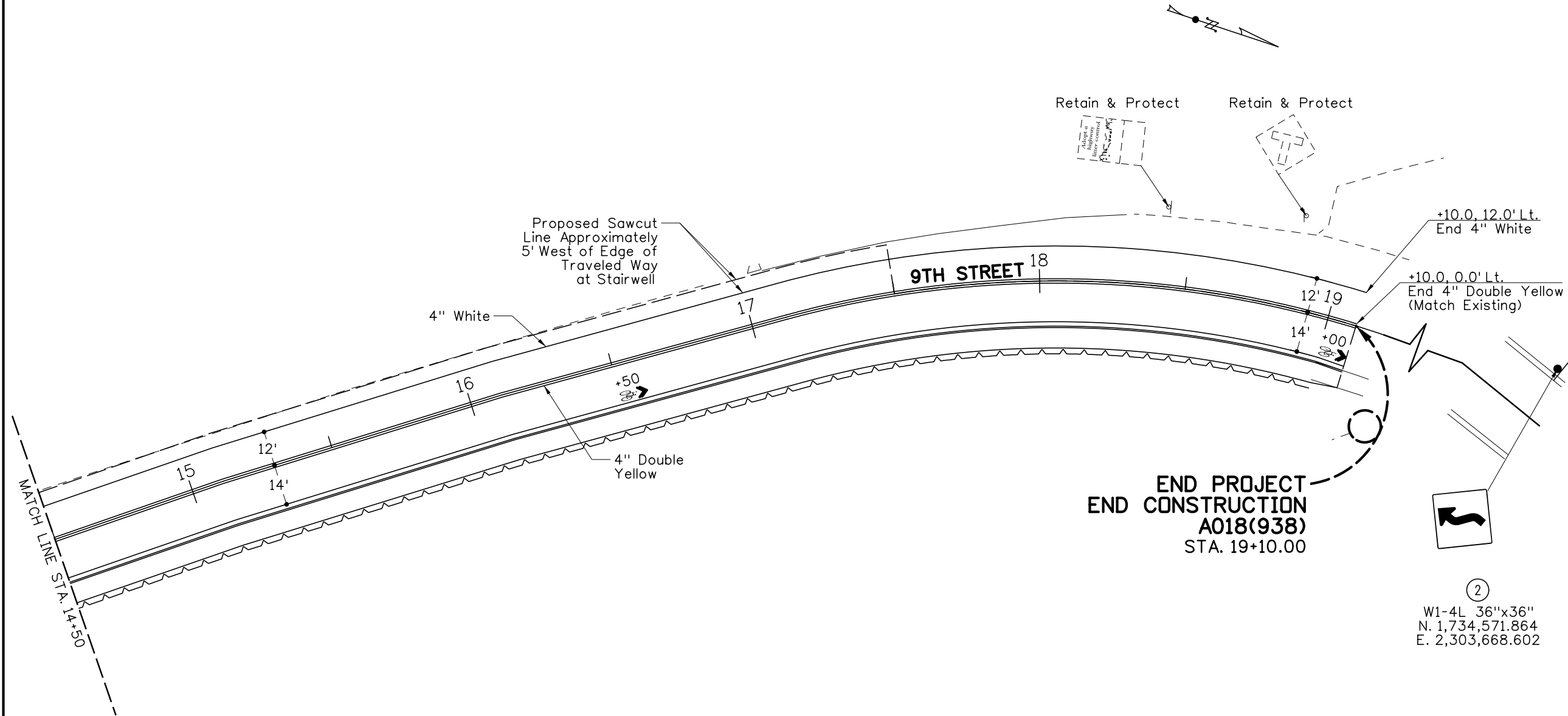
IDAHO TRANSPORTATION DEPARTMENT

Parametrix

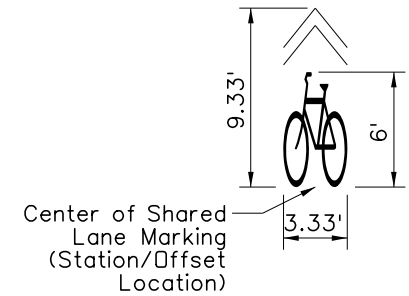
PROJECT NO.	SIGNING & PAVEMENT MARKING PLAN
A018(938)	9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON BEGIN TO STA. 14+50

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 12 OF 21

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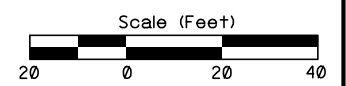


- 630-020B Pavement Markings
- Preformed Thermo
Shared Lane Marking
9 SF, Sta. 16+50, 11.5' Rt.
9 SF, Sta. 19+00, 11.5' Rt.
- 630-025A Longitudinal Pav Mrk
- Waterborne
468 FT, White
Sta. 14+50 to Sta. 19+10
920 FT, Yellow
Sta. 14+50 to Sta. 19+10



SHARED LANE MARKING DETAIL

- NOTE:
1. Contractor Shall Install Center of Shared Lane Marking at Least 4' Away From the Face of Curb
 2. See Sign Erection Details on Previous Signing & Pavement Marking Sheet



REVISIONS				DESIGNED KMD DESIGN CHECKED CAJ DETAILED KMR DRAWING CHECKED KCC	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY CADD FILE NAME 18938_smp_002.sht DRAWING DATE: MAY 2020	IDAHO TRANSPORTATION DEPARTMENT  Parametrix	PROJECT NO. A018(938)	SIGNING & PAVEMENT MARKING PLAN 9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON STA. 14+50 TO END	English COUNTY Nez Perce KEY NUMBER 18938 SHEET 13 OF 21
NO.	DATE	BY	DESCRIPTION						

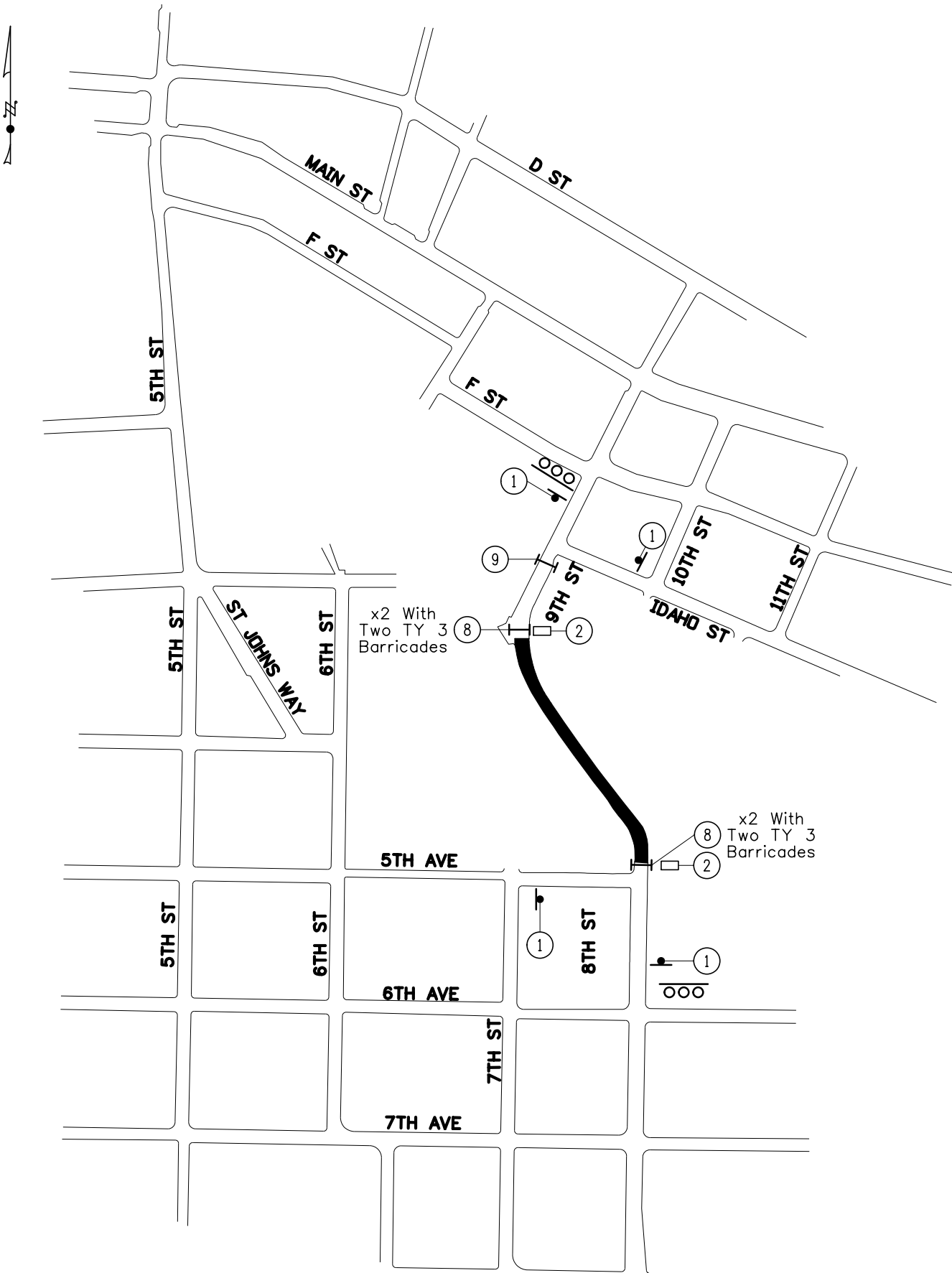
NOT
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FOR
CONSTRUCTION
FINAL DESIGN

LEGEND	
	Sign
	Barricade Type 3
	Barricade Type 2
	Work Area
	Portable Changeable Message Sign (PCMS)

NOTES:

- Contractor May Propose Changes to This Road Closure Plan. Proposed Changes Shall be Submitted to ITD District 2 and the City of Lewiston for Review and Approval.
- Contractor Shall Provide Appropriate Signage and Barriers for Minor Construction Activities (Ped Ramp Construction, Miscellaneous Paving, etc.) Not Covered by This Road Closure Plan.

PCM SEQUENCE	
	9TH STREET CLOSED
	DATE TO DATE
	USE ALTERNATE ROUTE



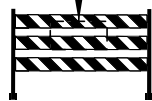
①
W20-3
36"X36"



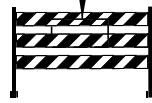
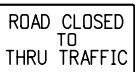
②
R9-9
24"X12"



⑧
R11-2
48"X30"



⑨
R11-4
60"X30"



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	KMD
DESIGN CHECKED	CAJ
DETAILED	KMR
DRAWING CHECKED	KCC

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CADD FILE NAME 18938_detr_001.sht
DRAWING DATE: MAY 2020

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Parametrix

PROJECT NO.
A018(938)

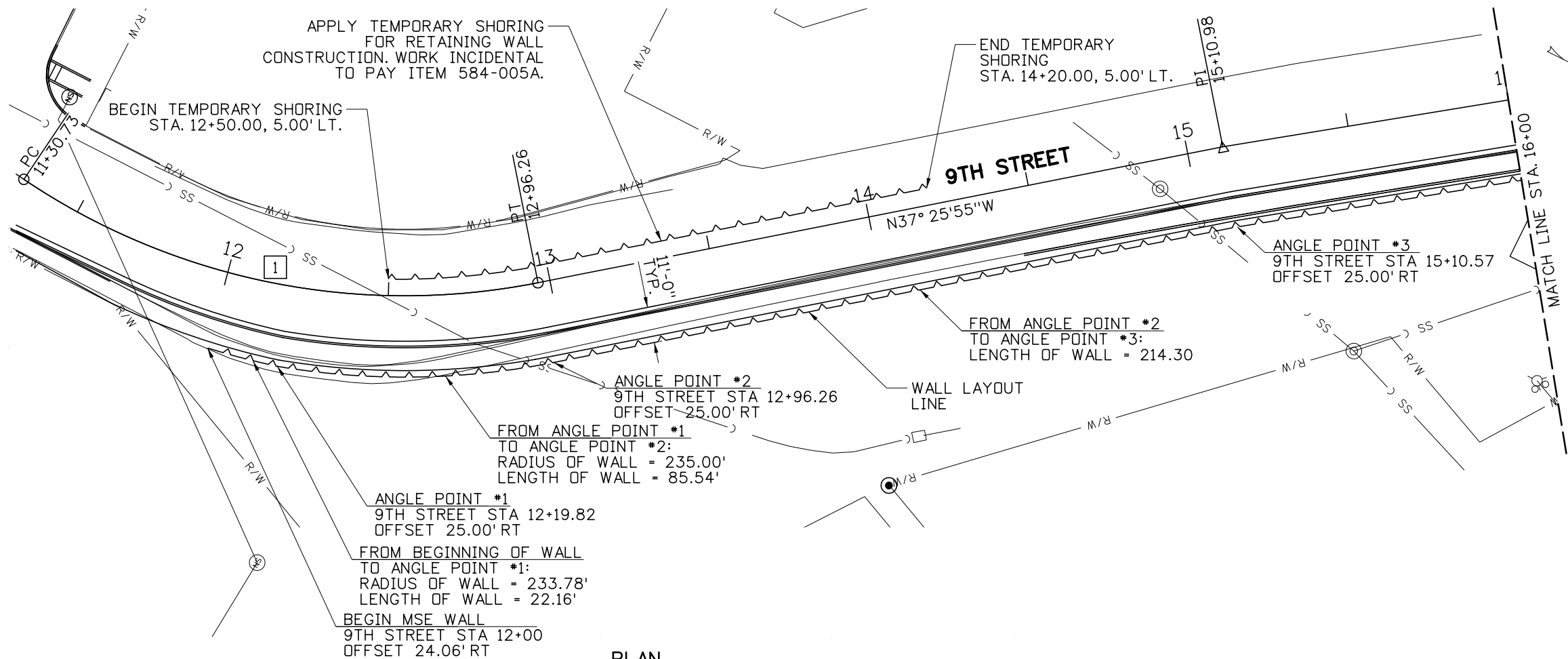
ROAD CLOSURE
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 14 OF 21

NOT
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FINAL DESIGN

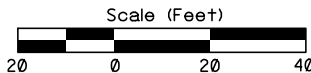
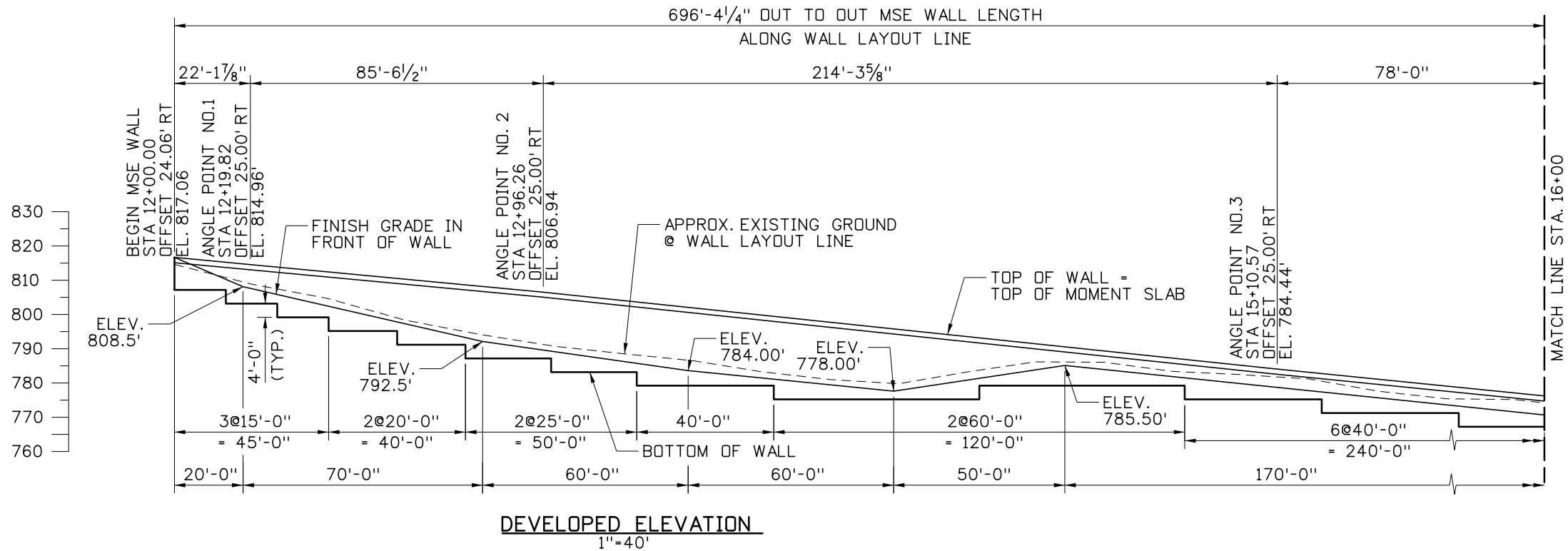
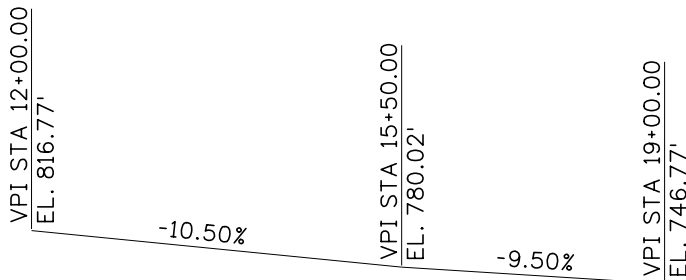
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1

Δ = 45° 09' 42" Lt.
R = 210.00'
L = 165.53'
P.C. = 11+30.73
P.T. = 12+96.26

9TH STREET HORIZONTAL CURVE DATA
N.T.S.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	MBP
DESIGN CHECKED	SLB
DETAILED	TAC
DRAWING CHECKED	SLB

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 18938_rw_001.sht
DRAWING DATE: MAY 2020

IDAHO TRANSPORTATION DEPARTMENT

Parametrix

PROJECT NO.
A018(938)

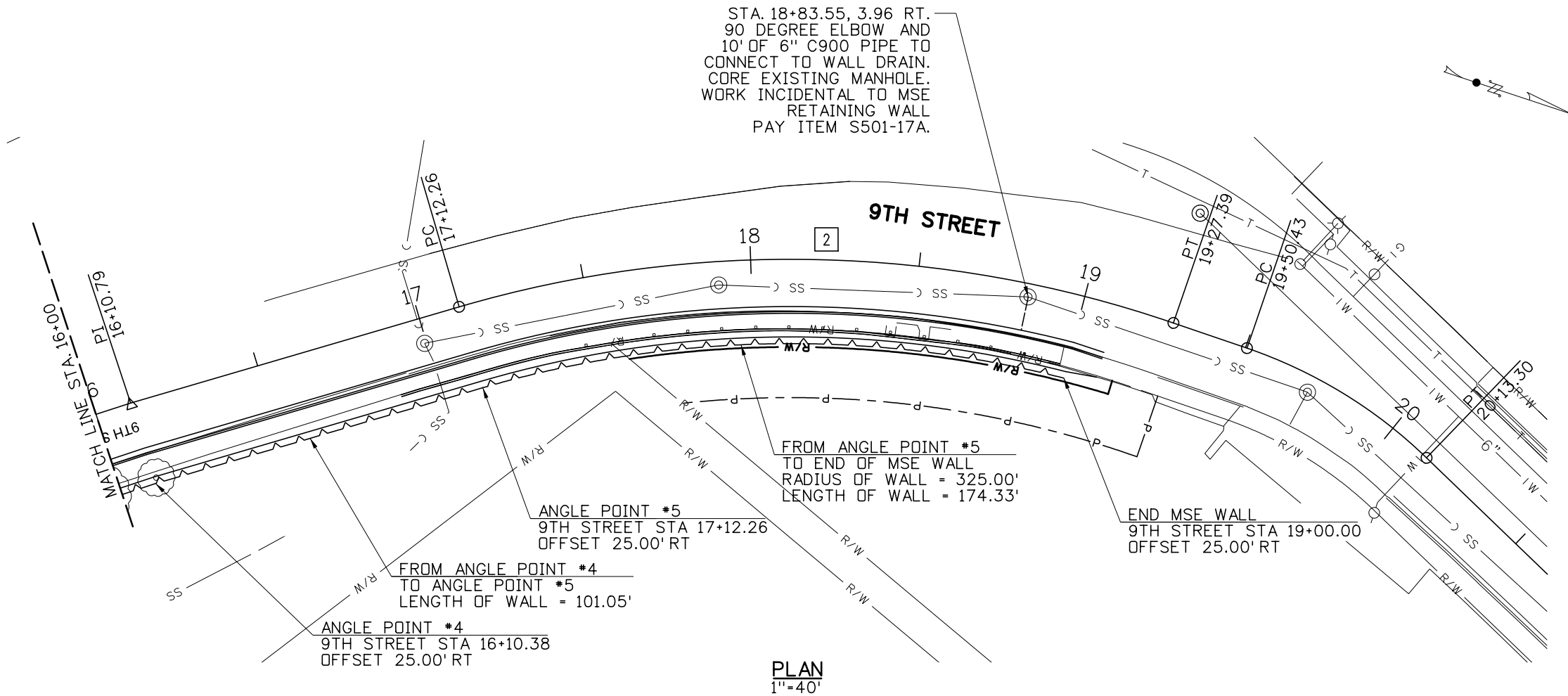
SITUATION AND LAYOUT (1 OF 2)
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 15 OF 21

NOT APPROVED

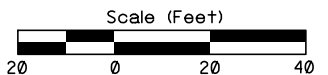
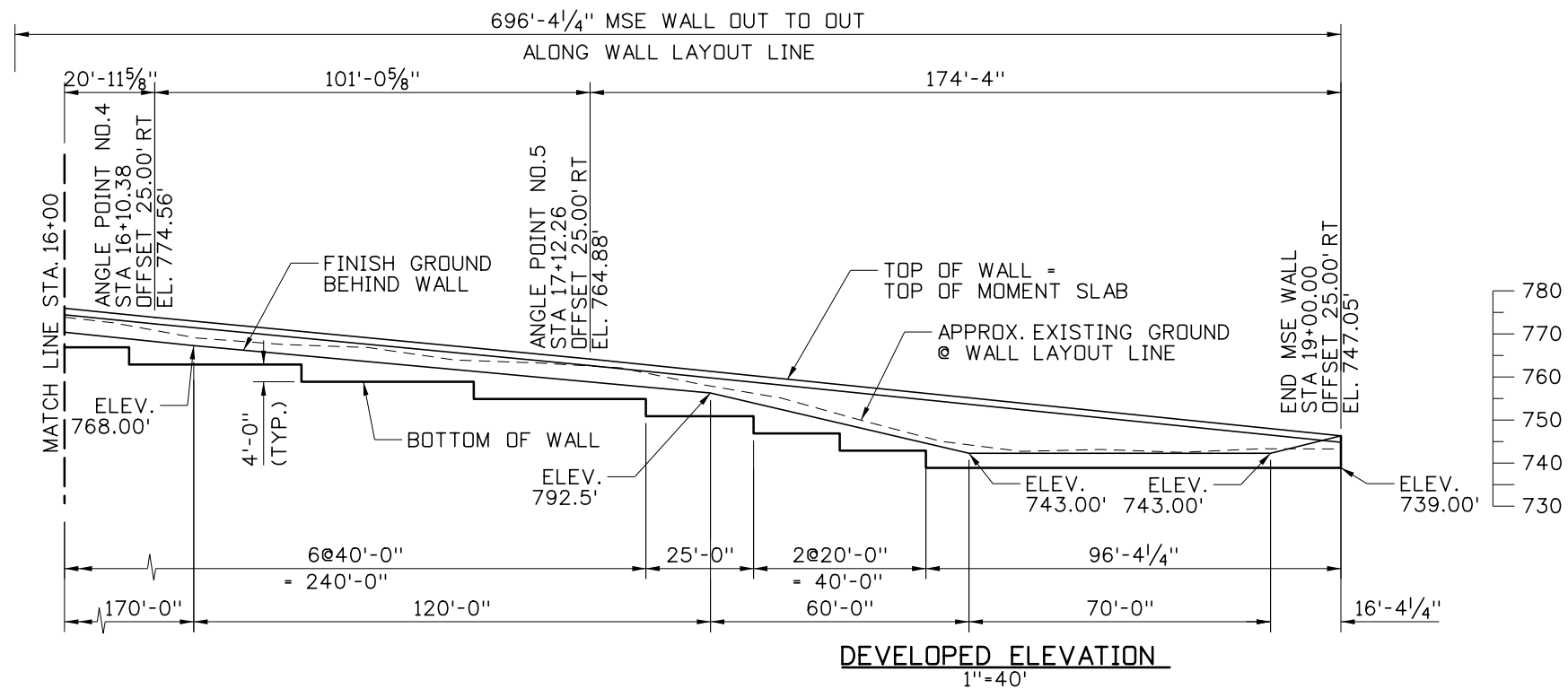
FINAL DESIGN

FOR CONSTRUCTION



2	
Δ	= 35°13'04" Rt.
R	= 350.00'
L	= 215.13'
P.C.	= 17+12.26
P.T.	= 19+27.39

9TH STREET HORIZONTAL CURVE DATA
N.T.S.



REVISIONS				DESIGNED	MBP	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
NO.	DATE	BY	DESCRIPTION			
				DESIGN CHECKED	SLB	CADD FILE NAME 18938_rw_002.sht
				DETAILED	TAC	
				DRAWING CHECKED	SLB	
						DRAWING DATE: MAY 2020

IDAHO
TRANSPORTATION
DEPARTMENT

Parametrix

PROJECT NO.
A018(938)

SITUATION AND LAYOUT (2 OF 2)
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 16 OF 21

NOT
APPROVED
FINAL DESIGN
FOR
CONSTRUCTION

DESIGN NOTES

DESIGN SPECIFICATIONS

IN ACCORDANCE WITH : "AASHTO LRFD BRIDGE DESIGN SPECIFICATION" 8TH EDITION - 2017.

DESIGN LOADS

PERMANENT LOADS

DC	UNIT WEIGHT OF REINFORCED CONCRETE	0.150	kcf
DW	FUTURE WEARING SURFACE	0.028	ksf
EV	UNIT WEIGHT OF SOIL	0.125	kcf
EH	ACTIVE PRESSURE	0.040	kcf
	AT REST PRESSURE	0.067	kcf

TRANSIENT LOADS

LS	LIVE LOAD SURCHARGE	2.00	feet
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EXTREME EVENT LOADS

EQ	SITE CLASS	D
	ACCELERATION COEFFICIENT S_{D1}	0.15 g
	SEISMIC PERFORMANCE ZONE	2

DESIGN SOFTWARE

THE FOLLOWING PROPRIETARY COMPUTER SOFTWARE PROGRAMS WERE USED TO EVALUATE GLOBAL STABILITY:

NAME	VERSION	RELEASE DATE
SLOPE/W	8.0	NOVEMBER 2012

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2018 EDITION, AND 2019 SUPPLEMENTAL SPECIFICATIONS,THE PROJECT PLANS AND SPECIFICATIONS.

MATERIAL

CONCRETE : CLASS 40A	$f'c =$	4.00	ksi
METAL REINFORCEMENT : AASHTO M31, GRADE 60	$fy =$	60.00	ksi

PLAN DIMENSIONS AND ELEVATIONS

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED $\frac{3}{4}$ " UNLESS NOTED OTHERWISE.
ALL DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.
CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR SHALL BE 2", UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

CONSTRUCTION

THE CONTRACTOR SHALL COORDINATE ALL EXISTING CONDITIONS DURING CONSTRUCTION OF PROJECT. UTILITY INFORMATION SHOWN ON THE STRUCTURE PLANS MAY NOT BE COMPLETE OR ACCURATELY DEPICT THE LOCATION OF THE FACILITIES SHOWN. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EXISTING,NEW,RELOCATED, AND ABANDONED UTILITIES WITH THE PROJECT PLANS AND NOTIFY RESPECTIVE OWNERS BEFORE COMMENCING THE WORK OF EXCAVATION. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK. SEE ROADWAY AND UTILITY DRAWINGS FOR ADDITIONAL INFORMATION.

INCIDENTAL ITEMS

ALL ITEMS SHOWN OR NOTED ON PLANS WHICH ARE NOT SPECIFICALLY BID ITEMS ARE CONSIDERED INCIDENTAL ITEMS. THE COST OF FURNISHING AND INSTALLING ALL INCIDENTAL ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS, UNLESS NOTED OTHERWISE.

MSE WALLS

THE FOLLOWING TABLE SUMMARIZES THE SOIL INFORMATION TO BE USED IN THE WALL DESIGN. OTHER INFORMATION NEEDED FOR THE WALL DESIGN CAN BE FOUND IN THE ITD FOUNDATION INVESTIGATION REPORT AVAILABLE AT THE DISTRICT OR HQ MATERIALS OFFICE.

MSE WALL DESIGN PARAMETERS					
SOIL	WET UNIT WEIGHT (pcf)	COHESION (psf)	FRICTION ANGLE (DEGREE)	ALLOWABLE BEARING CAPACITY (ksf)	ULTIMATE BEARING CAPACITY (ksf)
WALL BACKFILL	*	*	*	N/A	N/A
RETAINED SOIL	115	0	28	N/A	N/A
FOUNDATION SOIL	125	0	36	**	**

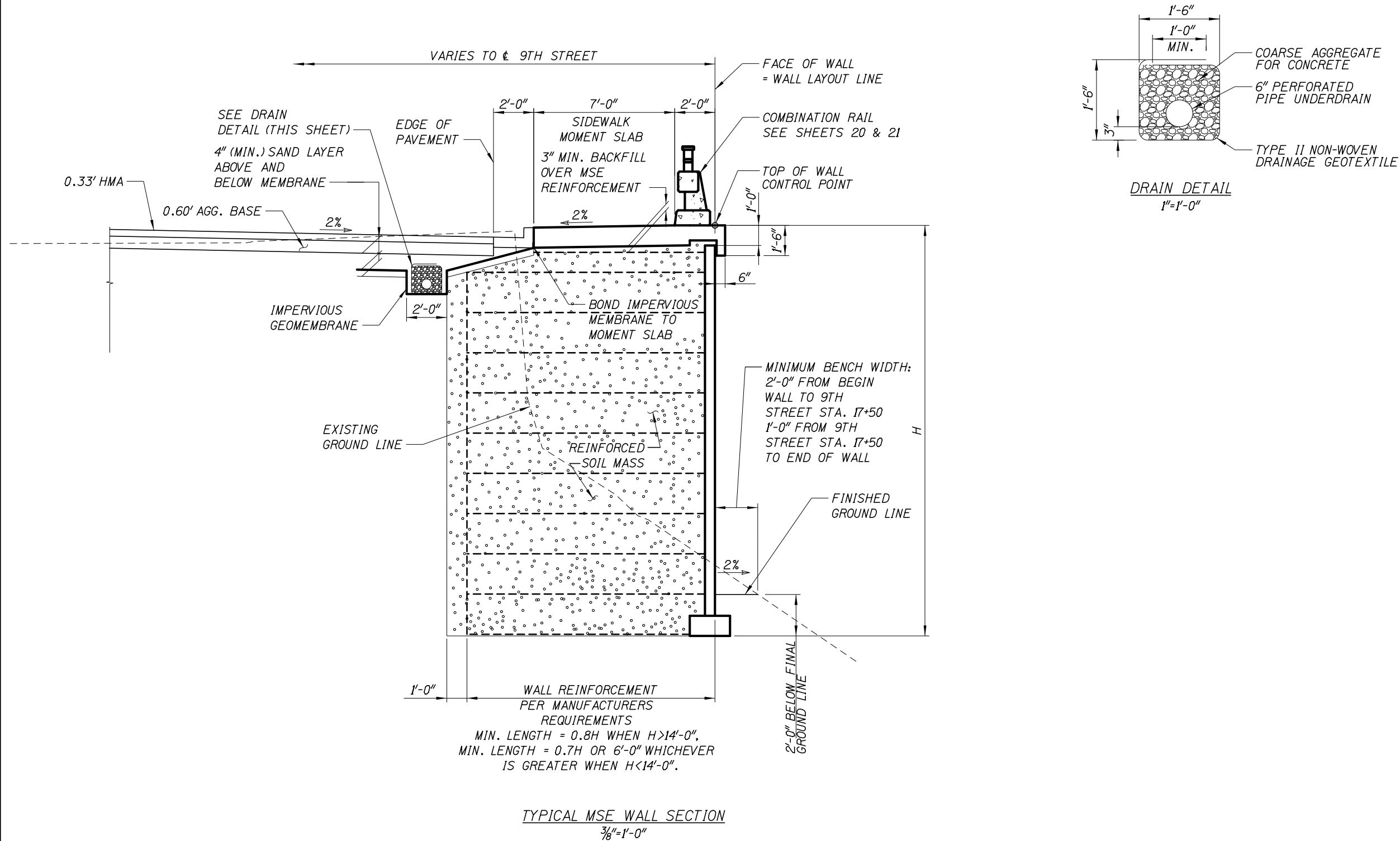
* - TO BE DETERMINED BY THE CONTRACTOR

** - SEE 9TH STREET GRADE;5TH AVENUE TO IDAHO STREET. RETAINING WALLS MATERIALS PHASE IV FOUNDATION INVESTIGATION REPORT,SEPTEMBER 17, 2018

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT		PROJECT NO.	DESIGN AND GENERAL NOTES	<i>English</i>		
NO.	DATE	BY	DESCRIPTION	MBP				A018(938)	9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON			
				DESIGN CHECKED <td>SLB</td> <td></td> <td></td> <td>COUNTY Nez Perce</td>				SLB				COUNTY Nez Perce
				DETAILED <td>TAC</td> <td></td> <td></td> <td>KEY NUMBER 18938</td>				TAC				KEY NUMBER 18938
				DRAWING CHECKED <td>SLB</td> <td></td> <td></td> <td>SHEET 17 OF 21</td>				SLB				SHEET 17 OF 21
						CADD FILE NAME 18938_dn_001.sht						
						DRAWING DATE: MAY 2020	Parametrix					

NOT
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	MBP
DESIGN CHECKED	SLB
DETAILED	TAC
DRAWING CHECKED	SLB

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME 18938_wd_001.sht
DRAWING DATE: MAY 2020

IDAHO TRANSPORTATION DEPARTMENT

Parametrix

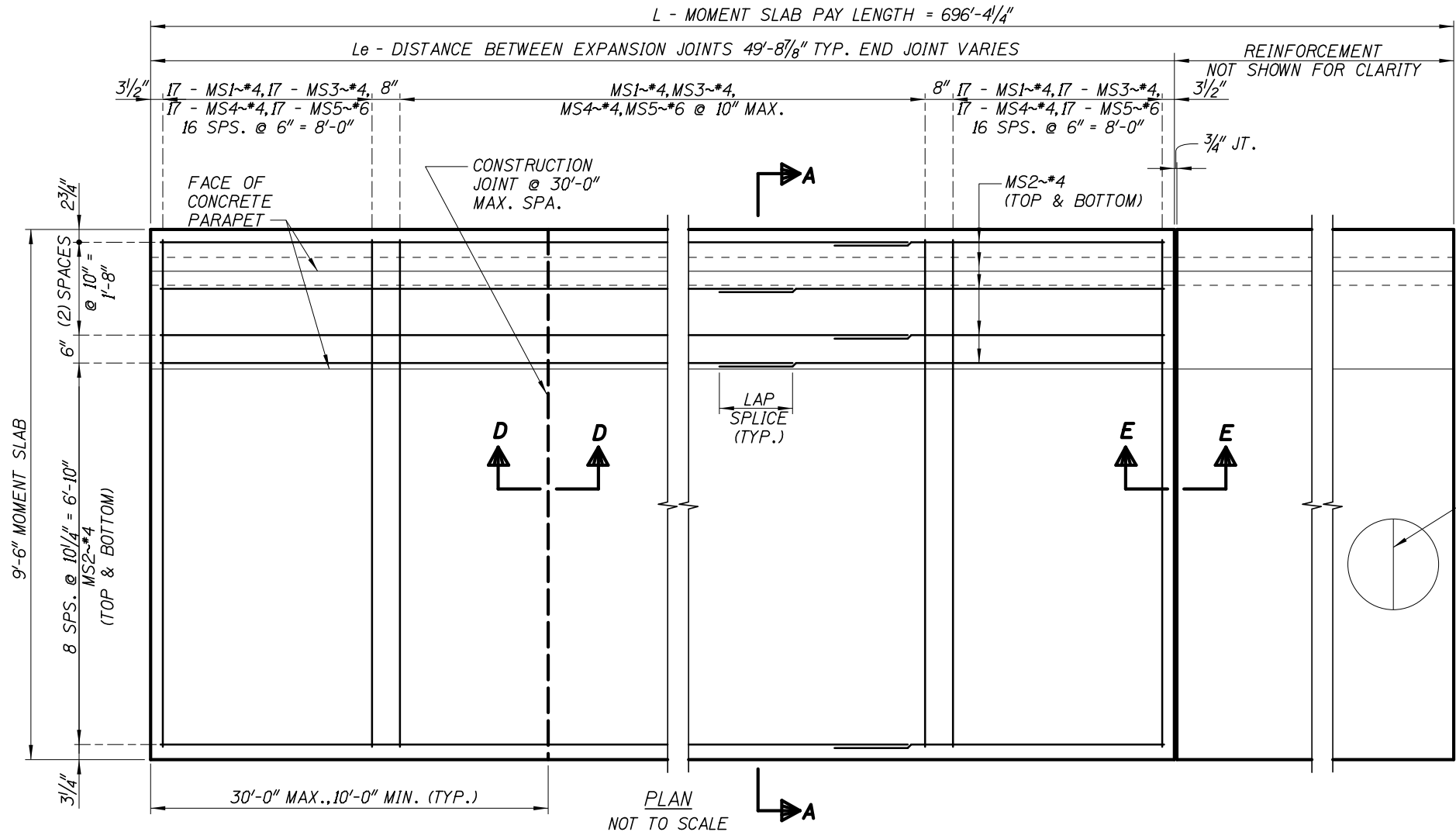
PROJECT NO.
A018(938)

WALL DETAILS
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

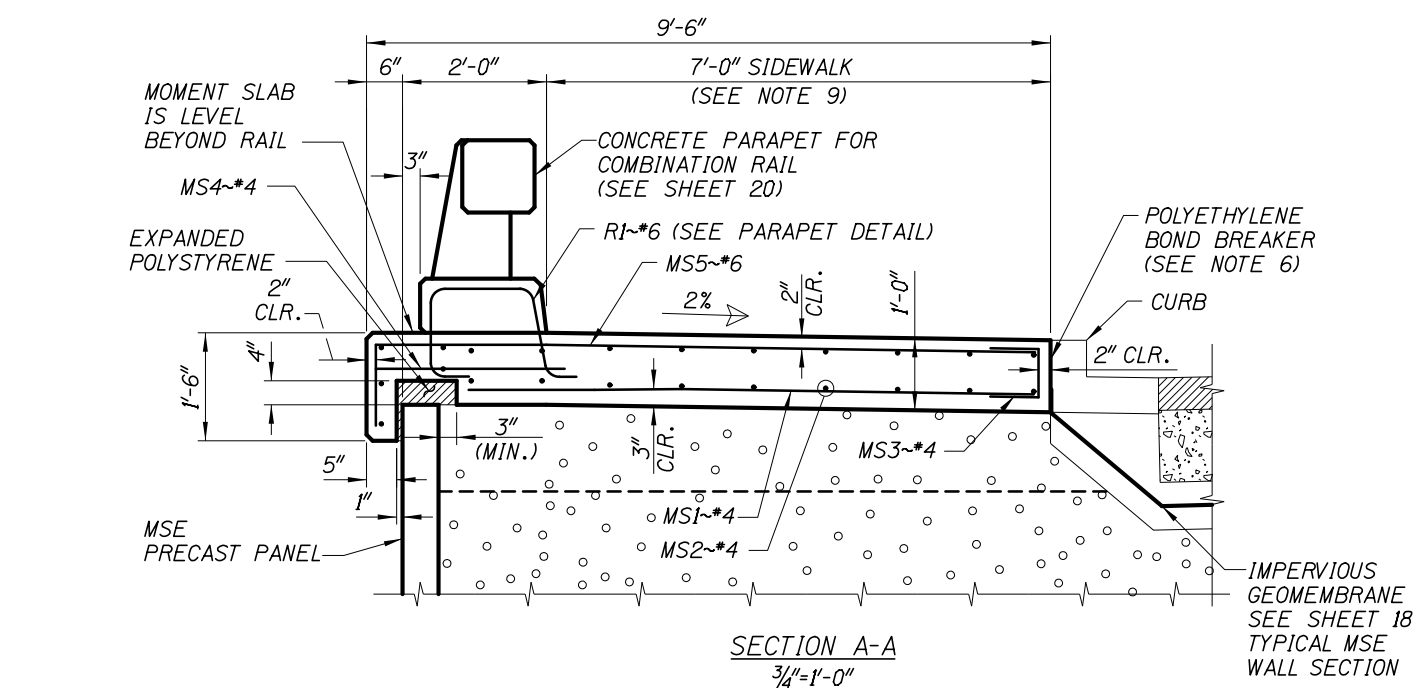
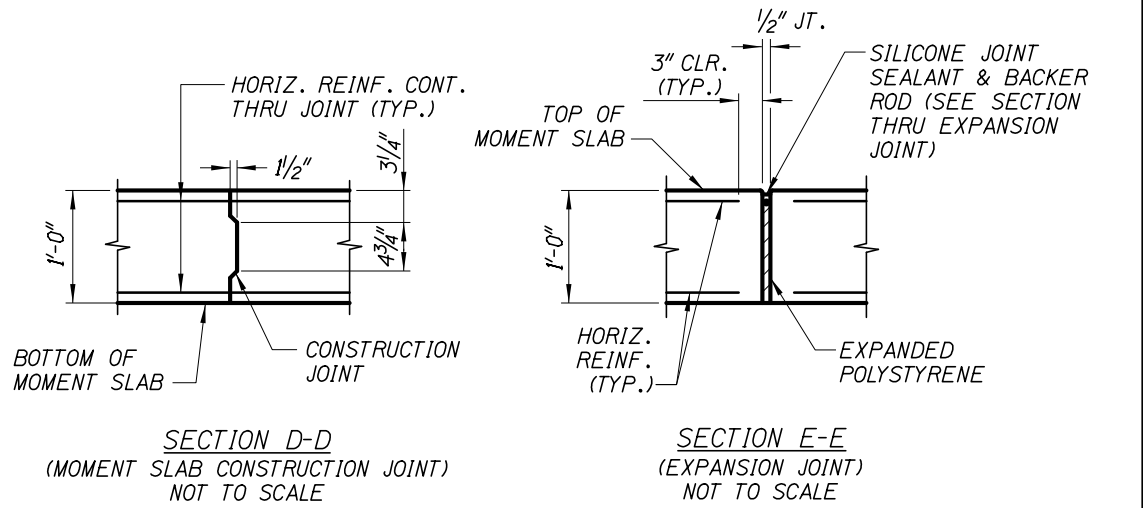
English
COUNTY Nez Perce
KEY NUMBER 18938
SHEET 18 OF 21

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FINAL DESIGN
FOR CONSTRUCTION

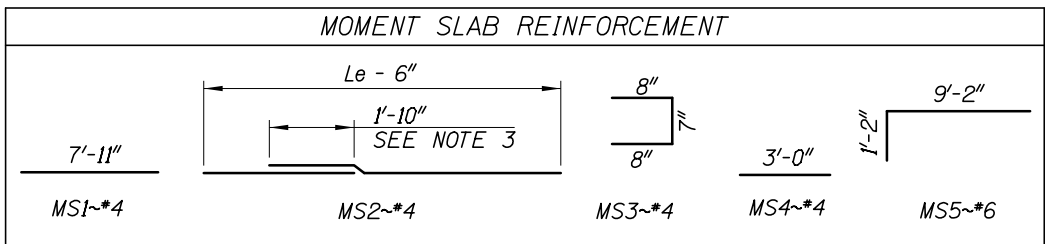
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- GENERAL NOTES
1. CONCRETE FOR MOMENT SLAB SHALL BE CONCRETE CLASS 40A.
 2. ALL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH SUBSECTION 708.02.
 3. ALTERNATE LAP SPLICE LOCATIONS BETWEEN ADJACENT BARS.
 4. BID ITEM "SP BRIDGE MOMENT SLAB - S501-30D" SHALL CONSIST OF FURNISHING ALL MATERIAL AND LABOR NECESSARY FOR THE CONSTRUCTION OF THE MOMENT SLAB AS SHOWN ON THE PLANS, COMPLETE IN PLACE.
 5. THE CONCRETE SURFACE OF THE MOMENT SLAB SHALL BE WATER CURED IN ACCORDANCE WITH SUBSECTION 502.03
 6. POLYETHYLENE BOND BREAKER BETWEEN THE MOMENT SLAB AND CURB.
 7. EXPANDED POLYSTYRENE SHALL BE A COMMERCIALY AVAILABLE POLYSTYRENE BOARD WITH A MINIMUM FLEXURAL STRENGTH OF 35 PSI PER ASTM C203 AND A COMPRESSIVE YIELD STRENGTH OF 16 PSI TO 40 PSI AT 5 PERCENT COMPRESSION.
 8. PROVIDE CONTRACTION JOINTS TO MATCH WITH SCORE JOINTS IN PARAPET, 1/8" WIDE, 3/4" IN DEPTH, FINISHED AND EDGED SMOOTH.
 9. FINISH MOMENT SLAB WITH A LIGHT BROOM SURFACE PERPENDICULAR TO THE CONCRETE PARAPET.



APPROXIMATE MOMENT SLAB QUANTITIES	
CONCRETE:	9.43 CUBIC FT./FT.
EPOXY COATED REINFORCEMENT:	45.2 LB./FT.



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED MBP	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED SLB	
DETAILED TAC	
DRAWING CHECKED SLB	

CADD FILE NAME 18938_ms_001.sht

DRAWING DATE: MAY 2020

IDAHO TRANSPORTATION DEPARTMENT

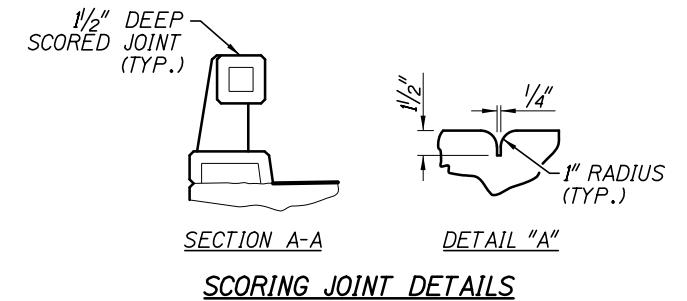
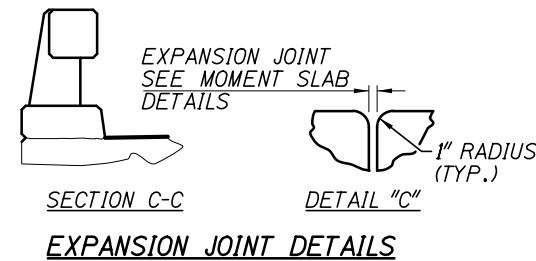
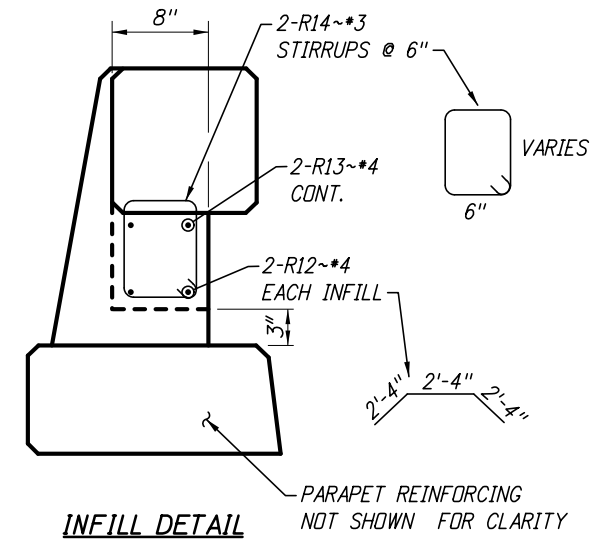
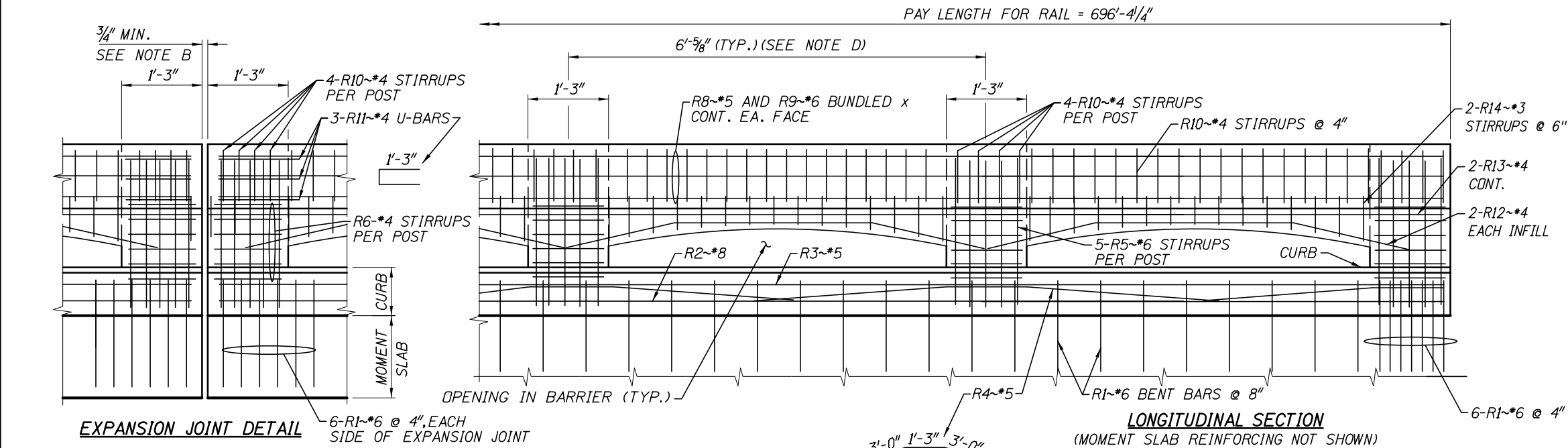
Parametrix

PROJECT NO.	MOMENT SLAB DETAILS (7' SIDEWALK)
A018(938)	9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON
English	
COUNTY Nez Perce	
KEY NUMBER 18938	
SHEET 19 OF 21	

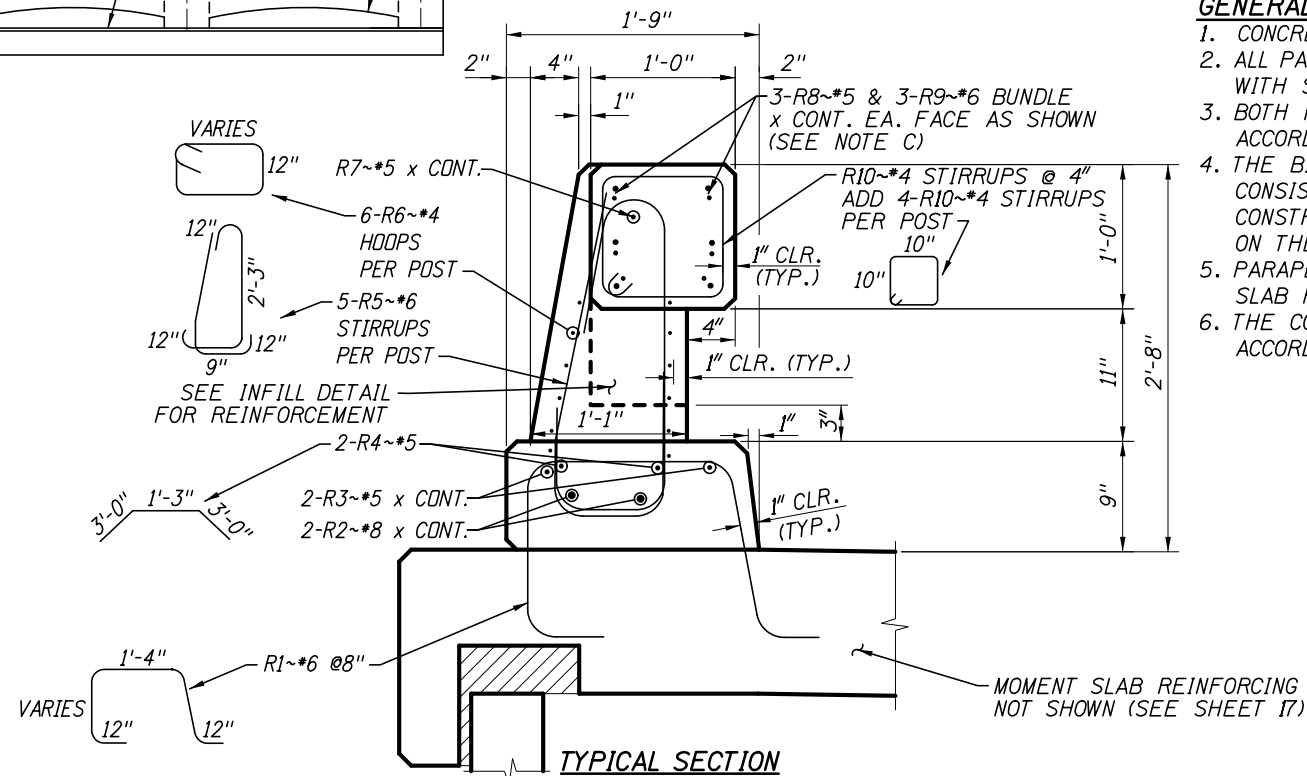
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FINAL DESIGN

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- NOTE**
- A. LONGITUDINAL REINFORCING STEEL TO STOP AT ALL EXPANSION JOINTS.
- B. EXPANSION JOINTS TO MATCH MOMENT SLAB JOINTS.
- C. NO LAP SPlicing ALLOWED ON THE LONGITUDINAL RAIL REINFORCING. MECHANICAL SPLICES SHALL BE STAGGERED.
- D. POST TO BE SPACED EQUALLY, TYPICALLY 6'-0 5/8" SPACING. POST SPACING MAY BE REDUCED WHERE LOCATION OF EXPANSION JOINTS WILL NOT ACCOMMODATE THE 6'-0 5/8" SPACING.



- GENERAL NOTES**
1. CONCRETE FOR PARAPET SHALL BE CONCRETE CLASS 40AF.
 2. ALL PARAPET REINFORCING BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH SUBSECTION 708.02.
 3. BOTH FACES OF PARAPET SHALL RECEIVE A RUBBED SURFACE FINISH, ACCORDING TO SUBSECTION 502.03 PART 1 OF THE STANDARD SPECIFICATIONS.
 4. THE BID ITEM "COMBINATION PEDESTRIAN/BICYCLE & TRAFFIC RAILING" CONSISTS OF FURNISHING ALL MATERIAL AND LABOR NECESSARY FOR THE CONSTRUCTION OF THE CONCRETE PARAPET AND METAL RAILING AS SHOWN ON THE PLANS, COMPLETE IN PLACE.
 5. PARAPET PLACEMENT SHALL FOLLOW THE SAME SEQUENCE AS THE MOMENT SLAB PLACEMENT.
 6. THE CONCRETE SURFACE OF THE PARAPET SHALL BE WATER CURED IN ACCORDANCE WITH SUBSECTION 502.03.

APPROXIMATE PARAPET QUANTITIES	
STRUCTURAL STEEL: (INCLUDING RAILING AND CHANNEL)	14 LB./L.F.
CONCRETE:	2.5 FT ³ /L.F.
REINFORCEMENT:	26.3 LB./L.F.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	MBP	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
DESIGN CHECKED	SLB	
DETAILED	TAC	CADD FILE NAME 18938_pp_001.sht
DRAWING CHECKED	SLB	DRAWING DATE: MAY 2020

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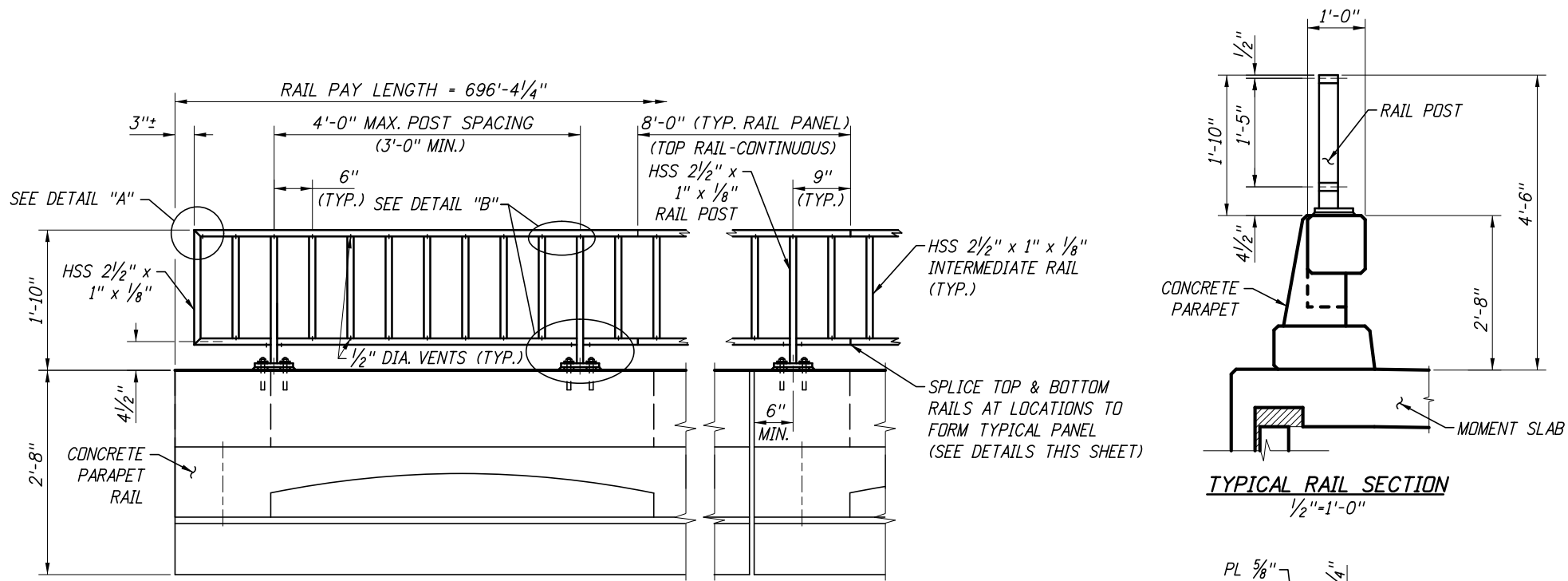
PROJECT NO.	A018(938)
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CONCRETE PARAPET FOR COMBINATION RAIL
9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON

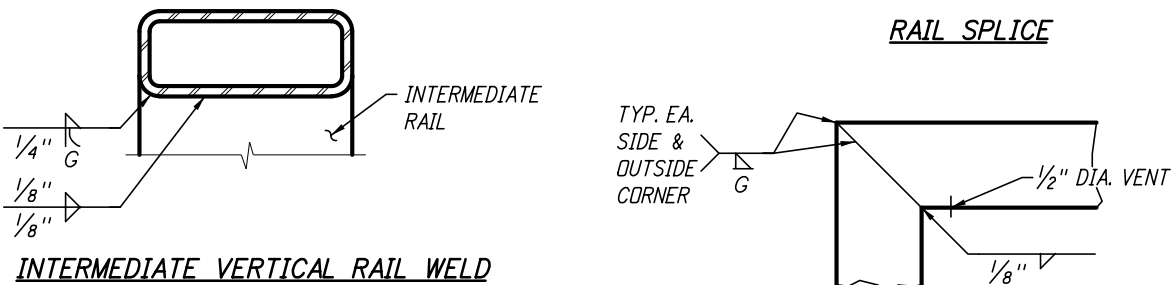
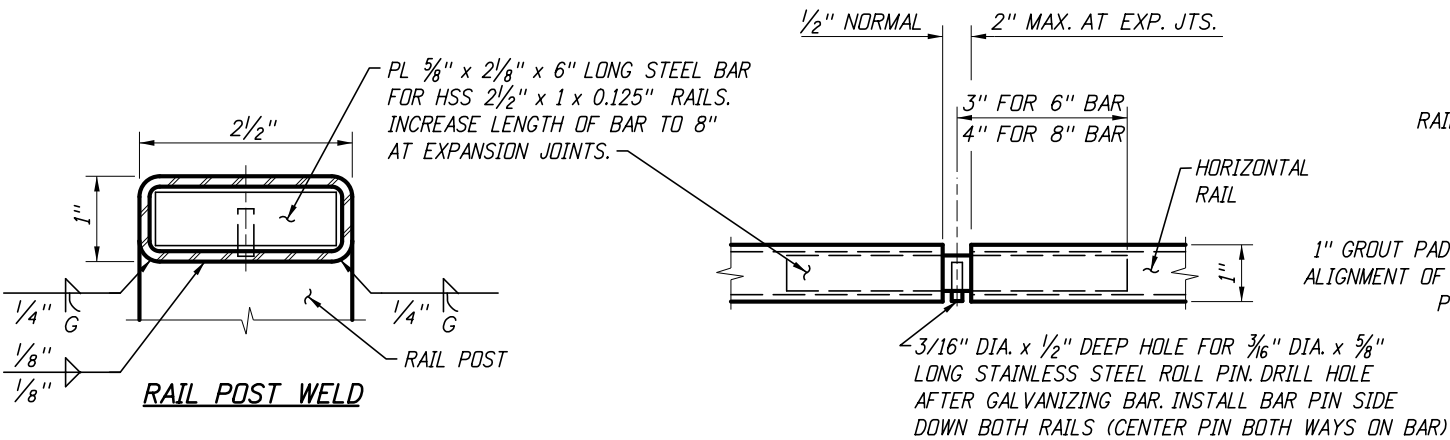
<i>English</i>	
COUNTY	Nez Perce
KEY NUMBER	18938
SHEET	20 OF 21

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CONSTRUCTION

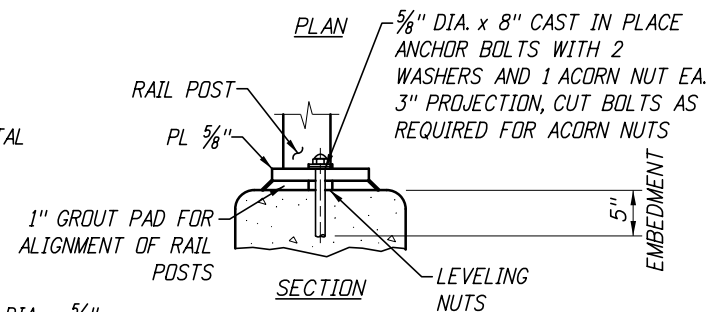
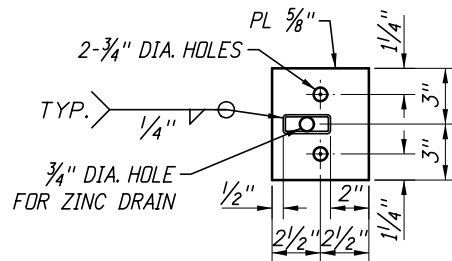
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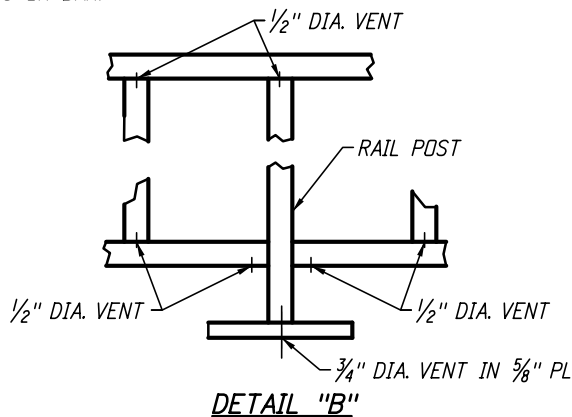
ELEVATION
1/2"=1'-0"



AT RAIL END: MITER JOINTS TOP & BOTTOM RAIL MEMBERS. WELD & GRIND SMOOTH.



BASE PLATE DETAIL



NOTES

MATERIALS

1. PROVIDE STRUCTURAL STEEL PLATES & SLEEVES THAT CONFORM WITH ASTM A709 GRADE 36.
2. PROVIDE STRUCTURAL STEEL TUBING THAT CONFORM WITH ASTM A500 GRADE B OR ASTM A501.
3. PROVIDE BOLT, ACORN NUTS, AND WASHERS THAT CONFORM WITH ASTM A307.
4. PROVIDE HEXAGONAL BOLTS AND NUTS THAT CONFORM WITH ANSI B18.2.1 AND B18.2.2.
5. PROVIDE ROUND HEAD MACHINE SCREWS THAT CONFORM WITH ANSI B18.6.3.
6. EPOXY COAT ALL METAL REINFORCEMENT IN THE CURB IN ACCORDANCE WITH SUBSECTION 708.02.

GALVANIZING/POWDER COATING

8. GALVANIZE ALL STEEL PARTS AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND ASTM A385.
9. GALVANIZE ANCHOR BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH ASTM A153.
10. THOROUGHLY CLEAN ALL WELDED AREAS PRIOR TO GALVANIZING TO REMOVE ALL SLAG OR OTHER MATERIAL THAT WOULD INTERFERE WITH THE ADHERENCE OF THE ZINC.
11. PROVIDE GALVANIZED SURFACES FREE OF FINS, ABRASIONS, ROUGH OR SHARP EDGES, OR OTHER SURFACE DEFECTS.

FABRICATION AND ERECTION

12. FABRICATE AND ERECT THE RAILING IN ACCORDANCE WITH THE CURRENT EDITION OF AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES AND ITD STANDARD SPECIFICATIONS.
13. SUBMIT SHOP DRAWINGS TO THE ENGINEER ELECTRONICALLY IN PDF FORMAT IN ACCORDANCE WITH SECTION 504 AND INCLUDE COMPLETE DIMENSIONS AND DETAILS OF FABRICATION INCLUDING AN ERECTION DIAGRAM. CLEARLY SPECIFY MATERIALS BEING USED. FURNISH THE ENGINEER ELECTRONIC AS-BUILT SHOP DRAWINGS IN PDF FORMAT BEFORE PROJECT COMPLETION.
14. SAW OR MILL ALL ENDS OF TUBE SECTIONS AT SPLICES. CUT ENDS WILL BE TRUE, SMOOTH AND FREE FROM BURRS OR RAGGED EDGES.
15. PROVIDE VENT HOLES FOR GALVANIZING AS REQUIRED AND SHOWN ON THE SHOP DRAWINGS. DRILL VENT HOLES AWAY FROM TRAFFIC FACE AND NOT ON THE TOP SURFACE OF THE HORIZONTAL TUBE.
16. ATTACH EACH RAIL SECTION TO A MINIMUM OF TWO POSTS, BUT PREFERABLY THREE OR MORE. RAILING SYSTEM WILL BE CONTINUOUS. LOCATE EACH JOINT IN A RAIL LENGTH AT THE SAME POSITION IN THE SECTION AND SPLICE AS DETAILED.
17. SUBMIT ALTERNATE SPLICE DETAILS FOR APPROVAL ON THE SHOP DRAWINGS.

METHOD OF MEASUREMENT

18. THE BID ITEM "PEDESTRIAN/BICYCLE RAILING" CONSISTS OF FURNISHING ALL MATERIAL, FABRICATION, AND INSTALLATION NECESSARY FOR THE CONSTRUCTION OF THE METAL RAILING AS SHOWN ON THE PLANS, COMPLETE IN PLACE, MEASURED BY THE LINEAR FOOT.

ALTERNATE ALUMINUM RAILING

19. AN ALTERNATE ALUMINUM RAIL THAT GENERALLY CONFORMS TO THE GEOMETRY AND DESIGN CRITERIA OF THE STEEL RAIL MAY BE SUBSTITUTED, AT NO ADDITIONAL COST TO THE STATE. ALUMINUM RAILING SHALL CONFORM TO ASTM B221, ALLOY 6005-T5. REFER TO THE ALTERNATE PEDESTRIAN/BICYCLE RAIL SPECIAL PROVISION.

REVISIONS				DESIGNED	MBP	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	COMBINATION PED/BICYCLE RAIL	English
NO.	DATE	BY	DESCRIPTION							
				DESIGN CHECKED	SLB					
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						DRAWING DATE: MAY 2020				

DESIGNED		IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	COMBINATION PED/BICYCLE RAIL	English
DESIGNED	MBP				
DESIGN CHECKED	SLB				
DETAILED	TAC				
DRAWING CHECKED	SLB				
		SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	A018(938)	9TH STREET GRADE; 5TH AVE TO IDAHO ST, LEWISTON	COUNTY Nez Perce
		CADD FILE NAME 18938_pr_001.sht			
		DRAWING DATE: MAY 2020			

DESIGNED		IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	COMBINATION PED/BICYCLE RAIL	English
DESIGNED	MBP				
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DESIGNED		IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	COMBINATION PED/BICYCLE RAIL	English
DESIGNED	MBP				
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DESIGNED		IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	COMBINATION PED/BICYCLE RAIL	English
DESIGNED	MBP				
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