

# 18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

## LEWISTON, IDAHO

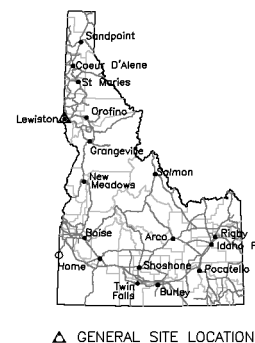
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SCHEDULE OF ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AVE.	AVENUE
BMP	BEST MANAGEMENT PRACTICES
CLM	CENTERLINE MONUMENT
CP	CONTROL POINT
DWG.	DRAWING
E	EAST
EXIST.	(EX) EXISTING
FG	FINISHED GRADE
FT.	FEET
L.F.	LINEAR FEET
MAX.	MAXIMUM
MIN.	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
NO.	NUMBER
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
PVTS	POINT OF VERTICAL INTERSECTION STATION
PROP.	PROPOSED
NO.	NUMBER
P/L	PROPERTY LINE
RAD	RADIUS
RT.	RIGHT
S	SOUTH
STA.	STATION
STD.	STANDARD
TYP.	TYPICAL
W	WEST

### UTILITY LOCATION

THE LOCATIONS OF UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING HAVE BEEN DETERMINED FROM A FIELD SURVEY AND FROM RECORDS OBTAINED FROM THE VARIOUS UTILITY COMPANIES. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. FOR YOUR SAFETY, STATE LAW REQUIRES THAT YOU CALL THE LOCAL "ONE-CALL" UNDERGROUND UTILITY LOCATING CENTER AT LEAST TWO WORKING DAYS BEFORE BEGINNING ANY EXCAVATION: 1-800-342-1585

"CALL BEFORE YOU DIG"



VICINITY MAP

NOT TO SCALE

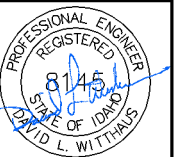
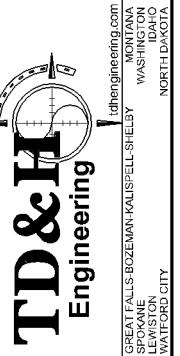
## GENERAL NOTES

- 1) THE CONTRACTOR SHALL INVESTIGATE ON SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
- 2) THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT ON THE EXISTING TRAFFIC.
- 3) SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS, AND INTERSECTIONS MUST BE MAINTAINED.
- 4) THE CONTRACTOR SHALL TAKE ALL NECESSARY PREVENTATIVE MEASURES TO PROTECT THE EXISTING IMPROVEMENTS. ANY DAMAGE SHALL BE REPLACED AT NO COST TO THE OWNER.
- 5) OWNER'S PROPERTY CORNERS SHALL BE PROTECTED AT ALL TIMES, AND THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF IDAHO TO REFERENCE ALL CORNERS. UPON COMPLETION OF THE PROJECT, ALL EXISTING CORNERS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- 6) A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED THROUGH THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY WORK BEGINNING WITHIN PUBLIC RIGHT-OF-WAY.
- 7) THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND FEES.
- 8) ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES AND CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISFWC) EXCEPT AS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY OF LEWISTON ORDINANCES AND STANDARDS.
- 9) UPON COMPLETION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, COMPLETE WITH ELEVATIONS, TO THE ENGINEER OF RECORD.
- 10) THIS PROJECT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF ALL WORK. ANY DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN THIS PERIOD SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 11) ALL WORK REQUIRED TO COMPLETE THE PROJECT NOT SPECIFICALLY SHOWN ON THE BID FORM SHALL BE CONSIDERED INCIDENTAL TO BID ITEMS. THIS WORK INCLUDES, BUT IS NOT LIMITED TO:
  - EXCAVATION, EMBANKMENT AND BORROW
  - SURFACE RESTORATION BEHIND SIDEWALK
  - GRAVEL DRIVEWAY RESTORATION BEHIND APPROACHES
  - CURB CUTS
  - BASE COURSE
  - REMOVAL OF VEGETATION

### LEGEND

PROPOSED	EXISTING	DESCRIPTION
		ASPHALT
		ASPHALT (EDGE OF)
		CATCH BASIN
		CONCRETE
		CONCRETE DRIVEWAY APPROACH AND THICKENED CONCRETE SIDEWALK
		CONTOUR
		CURB (STRAIGHT)
		CURB & GUTTER
		DETECTABLE WARNING PLATE (YELLOW)
		ELECTRICAL BOX
		FIRE HYDRANT
		GRAVEL
		GRAVEL EDGE OF
		GUY WIRE
		LANDSCAPE AREA (LIGHT GREEN)
		LIGHT POLE
		MAILBOX
		MANHOLE
		MONUMENT
		POWER POLE
		PROPERTY LINE
		RIGHT-OF-WAY LINE
		RETAINING WALL
		SPEED CUSHION
		SPOT ELEVATIONS
		STORMDRAIN PIPE
		TELEPHONE RISER
		TRAFFIC SIGN
		TREE - CONIFEROUS
		TREE - DECIDUOUS
		WATER METER
		VALVE

## BID SET

[illegible]

DRAWN BY:	CCK
DESIGNED BY:	HRC
QUALITY CHECK:	DLW
DATE:	6/26/14
DB NO.	L14-006
ELDBOOK	

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

VICINITY MAP, LEGEND, SHEET INDEX

L14-006 G-1.DWG

SHEET **G-1**

SUMMARY OF QUANTITIES

Item No.	Item	Unit	Total Project Quantity	Base Bid	Add Alternate
Division 200 - Earthwork					
201.4.1.B.1	Clearing and Grubbing	LS	1	1	
201.4.1.D.1.1	Removal of Sidewalk	SY	561	541	20
201.4.1.D.1.2	Removal of Asphalt Pavement	SY	3,282	2,800	482
201.4.1.E.1.1	Removal of Curb and Gutter	LF	1,134	1,084	50
201.4.1.E.1.2	Removal of Fence	LF	56	56	-
201.4.1.F.1.1	Removal of Tree	EA	1	1	-
201.4.1.F.1.2	Removal of Mailbox	EA	11	11	-
201.4.1.F.1.3	Removal of Catch Basin	EA	3	3	-
Division 300 - Trenching					
301.4.1.A.1	Trench Excavation	LF	74	74	-
305.4.1.A.3	Class A-2 Pipe Bedding for 12" Diam. Pipe	LF	74	74	-
Division 600 - Culverts and Storm Drains					
601.4.1.A.17	12" Storm Drain Pipe - Type S CPP	LF	74	74	-
602.4.1.F.1.2	Catch Basin - Type IA	EA	3	3	-
Division 700 - Concrete					
706.4.1.A.3	Vertical Curb (No Gutter)	LF	822	780	42
706.4.1.A.7	Curb and Gutter	LF	1,764	1,448	316
706.4.1.E.1	Concrete Sidewalks, 4"	SY	844	691	153
706.4.1.F.1	Concrete Driveway Approach	SY	408	377	31
706.4.1.H.1	Ped. Ramp w/Det. Warning Domes	EA	23	21	2
Division 800 - Aggregates and Asphalt					
810.4.1.A.3	Plant Mix Pavement	SY	2,958	2,404	554
Division 1000 - Construction Stormwater BMPs					
1001.4.1.A.1	Sediment Control	LS	1	1	
Division 1100 - Traffic					
1103.4.1.A.1	Construction Traffic Control	LS	1	1	
1104.4.1.A.1	Pavement Line Paint or Painted Pavement Markings	SF	3,026	2,839	187
1104.4.1.B.1	Thermoplastic Pavement Markings	SF	656	656	-
1105.4.1.A.1	Permanent Signing	SF	190	157	33
1105.4.1.E.1	Sign Post	EA	29	24	5

Item No.	Item	Unit	Total Project Quantity	Base Bid	Add Alternate
Division 2000 - Miscellaneous					
2010.4.1.A.1	Mobilization	LS	1	1	
2020.4.1.F.1	Reference and Reset Monuments	EA	3	3	-
2030.4.1.C.1	Valve Box, Adjust to Grade	EA	5	4	1
2030.4.1.D.1	Miscellaneous Utility, Adjust to Grade	EA	5	5	-
2040.4.1.A.1	Wood Fence	LF	50	50	-
2040.4.1.B.1	Man Gate	EA	1	1	-
SSP 00001	Landscaping	SF	2,752	1,909	843
SSP 00002	Speed Cushion	EA	5	5	-
SSP 00003	Mailbox Cluster	EA	5	5	-
SSP 00004	Remove and Reset Existing Sign	EA	9	8	1
SSP 00005	Lit Pedestrian Crossing Sign	EA	1	1	-
SSP 00006	Wayfinding Sign and Post	EA	11	9	2
SSP 00007	Flag-a-Ride Sign and Post	EA	3	3	-

BID SET

PROFESSIONAL ENGINEER  
REGISTERED  
STATE OF IDAHO  
JUL 14 2014  
D L WITTMAUS

REV  
DATE  
REVISION

TD&H  
Engineering

GREAT FALLS, BOZEMAN, KALISHELL, SHELBY, MONTANA  
SPOKANE, WASHINGTON  
PAIDSON, MONTANA  
LEWISTON, IDAHO  
NORTH DAKOTA

DRAWN BY: CCK  
DESIGNED BY: HRC  
QUALITY CHECK: DLW  
DATE: 6/26/14  
JOB NO. L14-006  
FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO  
SUMMARY OF QUANTITIES

L14-006 G-2.DWG  
SHEET G-2



# QUANTITY TABULATION

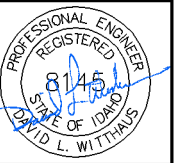
# BASE BID

		Division 200 - Earthwork							Division 300 - Trenching		Division 600 - Culverts and Storm Drain		Division 700 - Concrete					Division 800 - Asphalt	Division 1100 - Traffic				Division 2000 - Miscellaneous											

# ADD ALTERNATE NO. 1

Dwg. No.	Station	SY	SY	LF	LF	EA	EA	EA	LF	LF	LF	EA	LF	LF	SY	SY	EA	SY	SF	SF	SF	EA	EA	EA	EA	LF	EA	SF	EA	EA	EA	EA	EA	EA
R-7	42+00 to 46+00	-	167	-	-	-	-	-	-	-	-	-	-	115	49	31	-	224					-	-	-	-	-	296	-	-				
R-8	46+00 to 48+00	20	315	50	-	-	-	-	-	-	-	-	42	201	104	-	2	330					-	1	-	-	-	547	-	-				
T-7	42+00 to 46+00																		72	-	33	5									-	-	1	-
T-8	46+00 to 48+00																		115	-	-	-									1	-	1	-
	TOTAL	20	482	50									42	316	153	31	2	554	187		33	5			1			843			1		2	

# BID SET



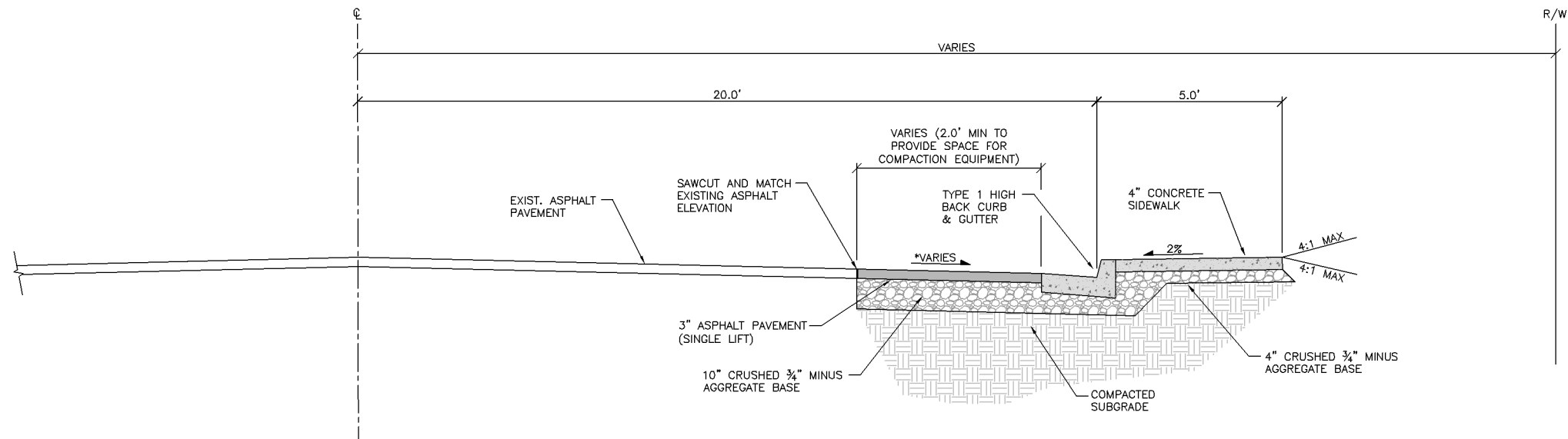
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ELDBOOK	

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

## QUANTITATIVE ABULATION

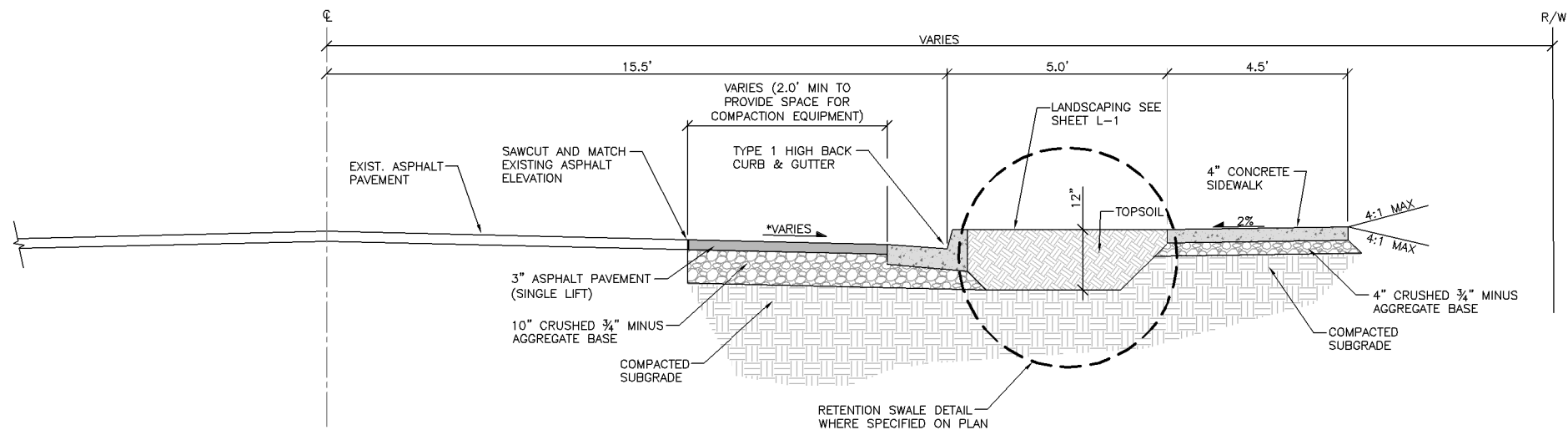
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**SHEET G-3**

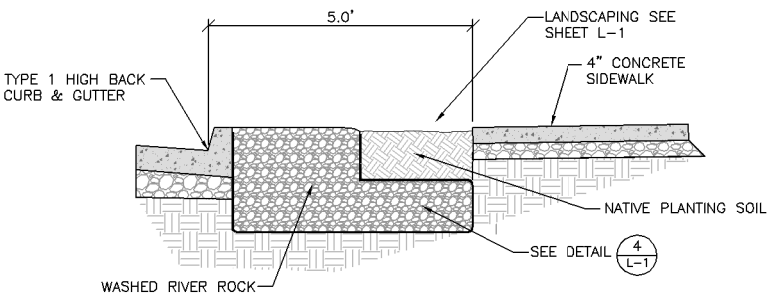


**CURB, GUTTER AND SIDEWALK ADDITION**  
NOT TO SCALE

\*SLOPE MUST BE MAINTAINED BETWEEN 0.5% AND 8%. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SAWCUT LOCATION TO MEET CROSS SLOPE REQUIREMENTS. PROPOSED LOCATION SHALL BE MARKED ON PAVEMENT FOR ENGINEER REVIEW 48 HOURS PRIOR TO SAW CUTTING.



**BUMP OUT**  
NOT TO SCALE




**RETENTION SWALE DETAIL**  
NOT TO SCALE

**BID SET**



REV	DATE	REVISION



TD&H

Engineering

idengineering.com

GREAT FALLS, BOZEMAN, KALISHELL, SHELBY

SPOKANE

PAISLEY

IDAHO

WATERBURY

MONTANA

WASHINGTON

NORTH DAKOTA

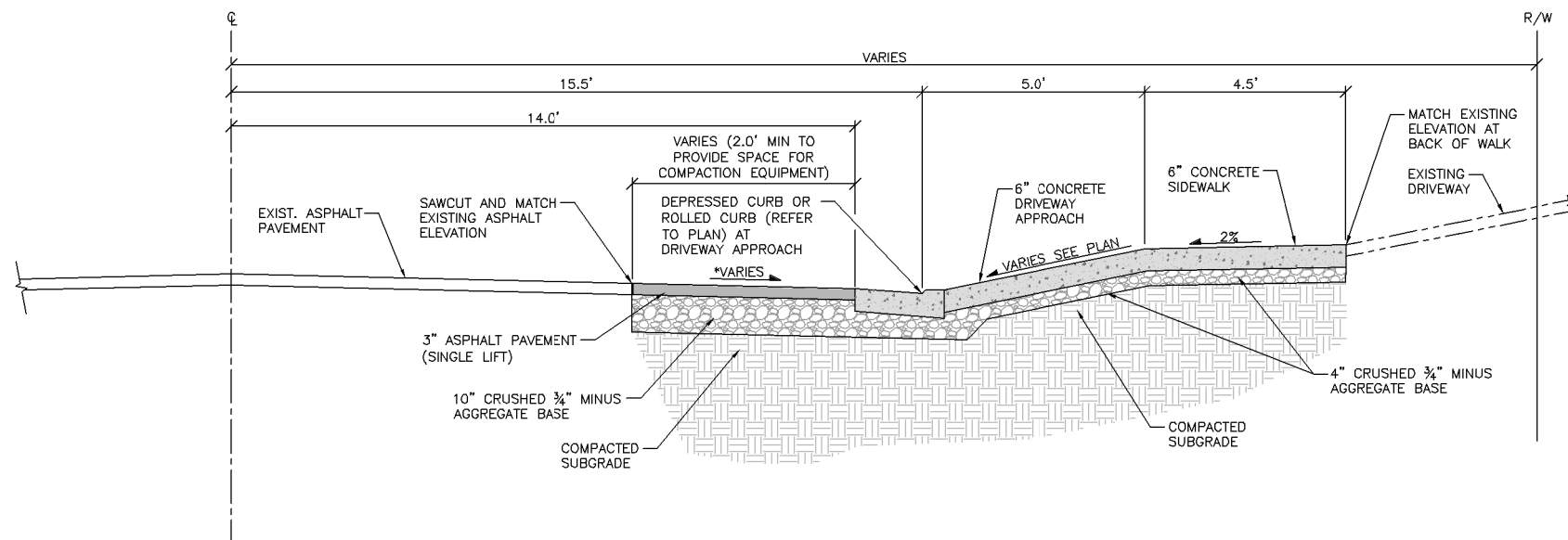
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DATE:	6/26/14
JOB NO.	L14-006
FIELDBOOK	

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

LEWISTON, IDAHO

TYPICAL SECTIONS

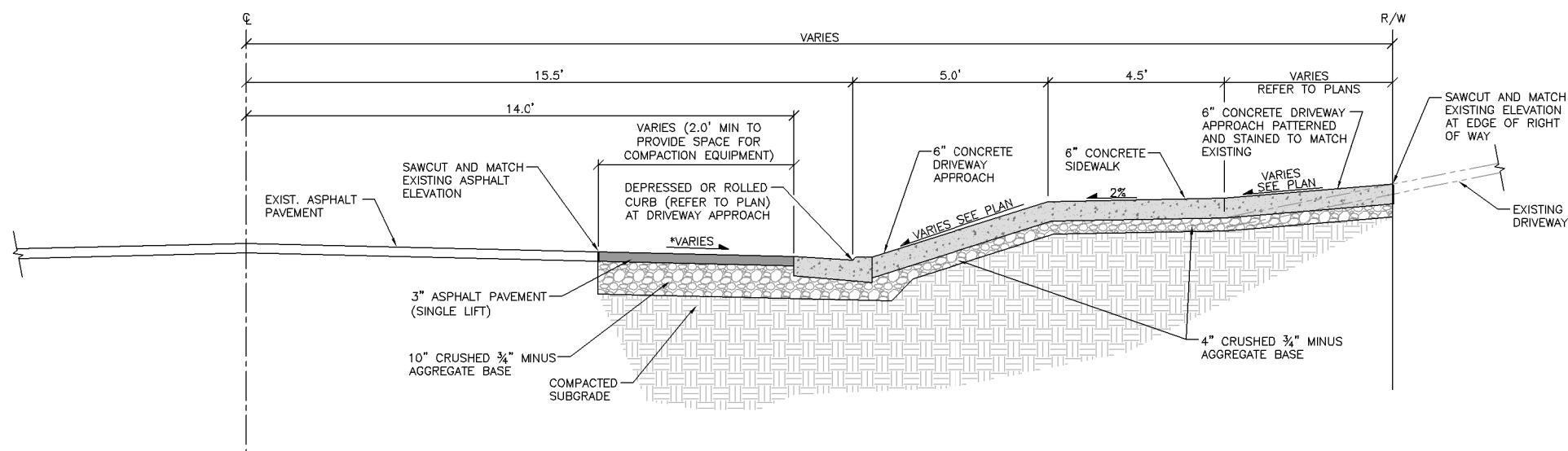




### BUMPOUT AT DRIVEWAY (MATCH AT BACK OF WALK)

NOT TO SCALE

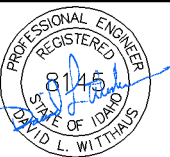
\*SLOPE MUST BE MAINTAINED BETWEEN 0.5% AND 8%. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SAWCUT LOCATION TO MEET CROSS SLOPE REQUIREMENTS. PROPOSED LOCATION SHALL BE MARKED ON PAVEMENT FOR ENGINEER REVIEW 48 HOURS PRIOR TO SAW CUTTING.



### BUMPOUT AT DRIVEWAY (MATCH AT EDGE OF RIGHT OF WAY)

NOT TO SCALE

# BID SET



REV	DATE	REVISION



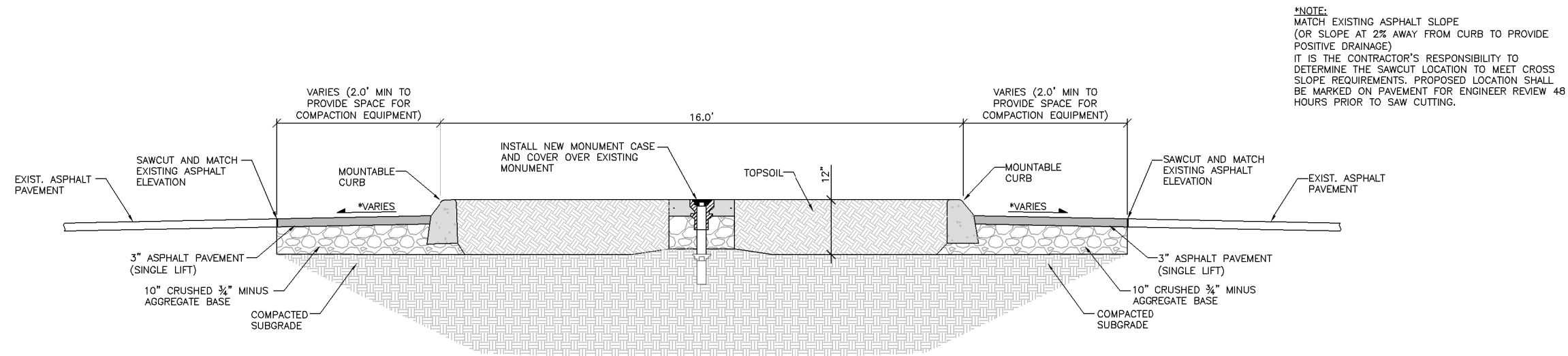
TD&H Engineering  
GREAT FALLS, BOZEMAN, KALISHELL, SHELBY, MONTANA  
SPokane, WASHINGTON  
LEWISTON, IDAHO  
MADISON, WISCONSIN  
NORTH DAKOTA

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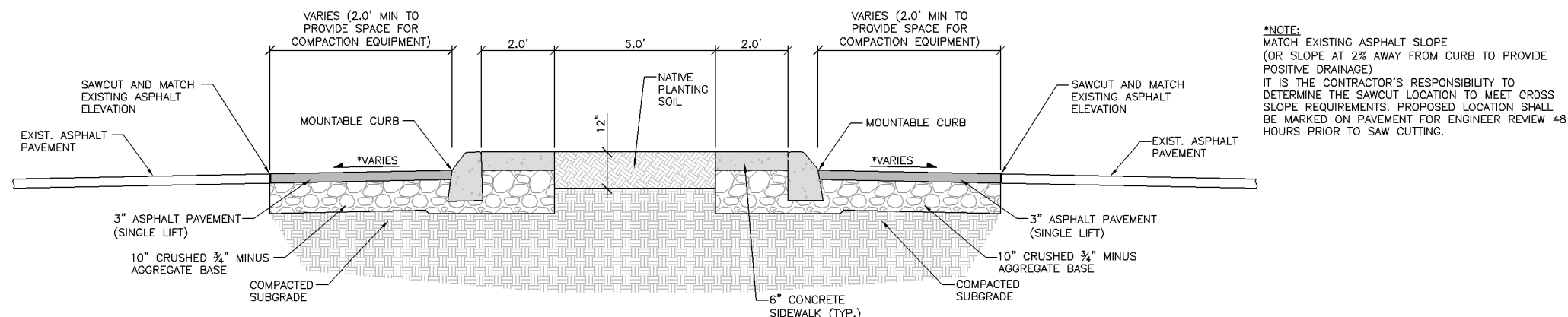
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

LEWISTON, IDAHO

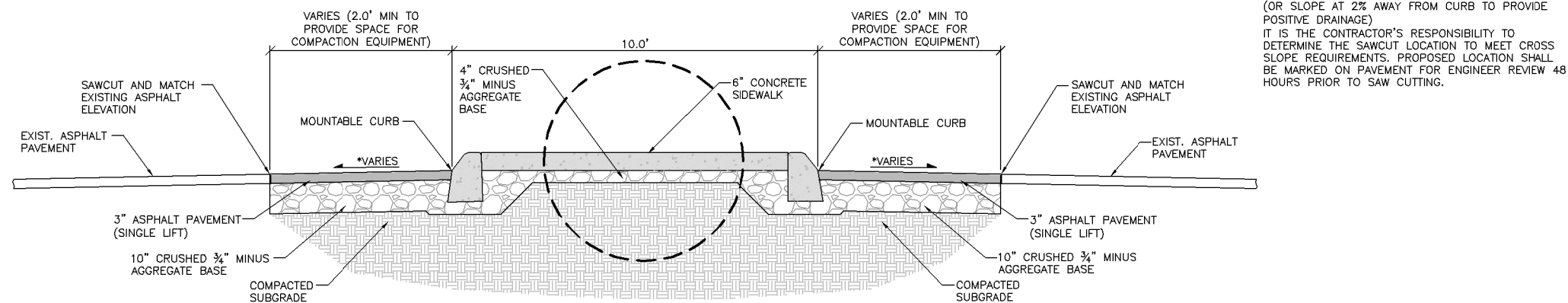
TYPICAL SECTIONS



**TRAFFIC CIRCLE**  
NOT TO SCALE



**BOULEVARD W/2' CONCRETE BAND AND LANDSCAPING CROSS SECTION**  
NOT TO SCALE

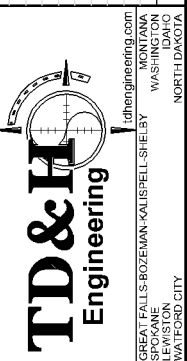


**BOULEVARD CROSS SECTION**  
NOT TO SCALE

\*NOTE:  
MATCH EXISTING ASPHALT SLOPE  
(OR SLOPE AT 2% AWAY FROM CURB TO PROVIDE  
POSITIVE DRAINAGE)  
IT IS THE CONTRACTOR'S RESPONSIBILITY TO  
DETERMINE THE SAWCUT LOCATION TO MEET CROSS  
SLOPE REQUIREMENTS. PROPOSED LOCATION SHALL  
BE MARKED ON PAVEMENT FOR ENGINEER REVIEW 48  
HOURS PRIOR TO SAW CUTTING.

\*NOTE:  
MATCH EXISTING ASPHALT SLOPE  
(OR SLOPE AT 2% AWAY FROM CURB TO PROVIDE  
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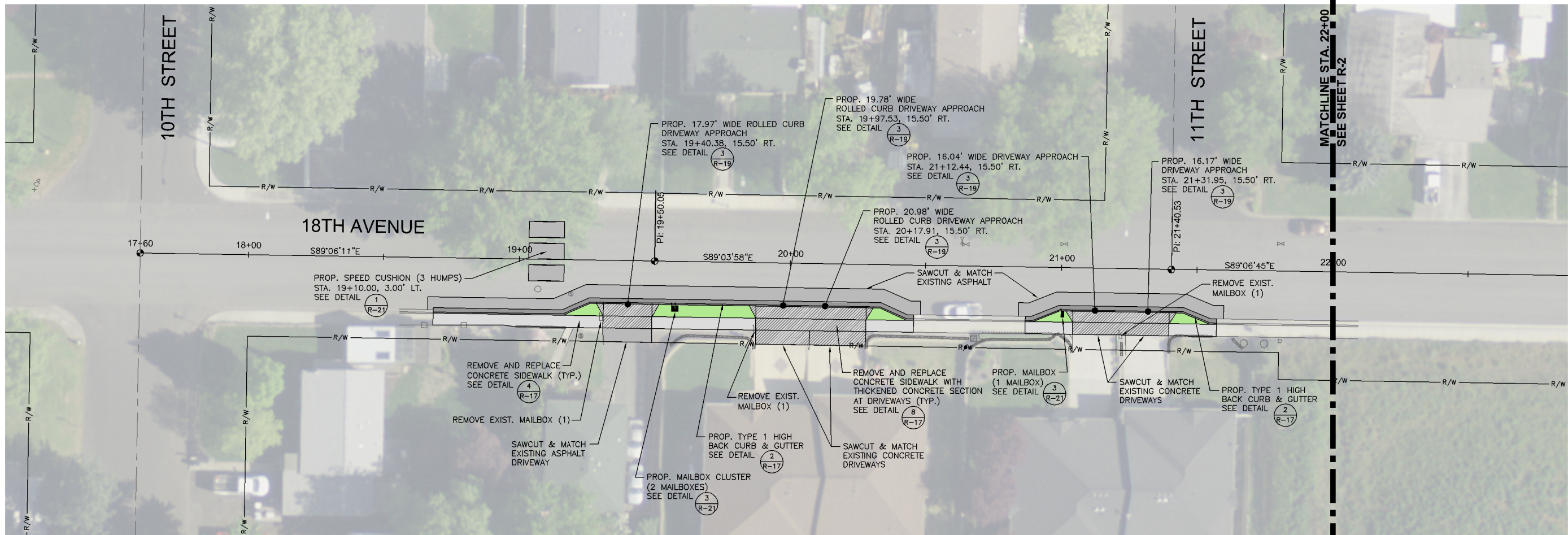
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LEWISTON, IDAHO

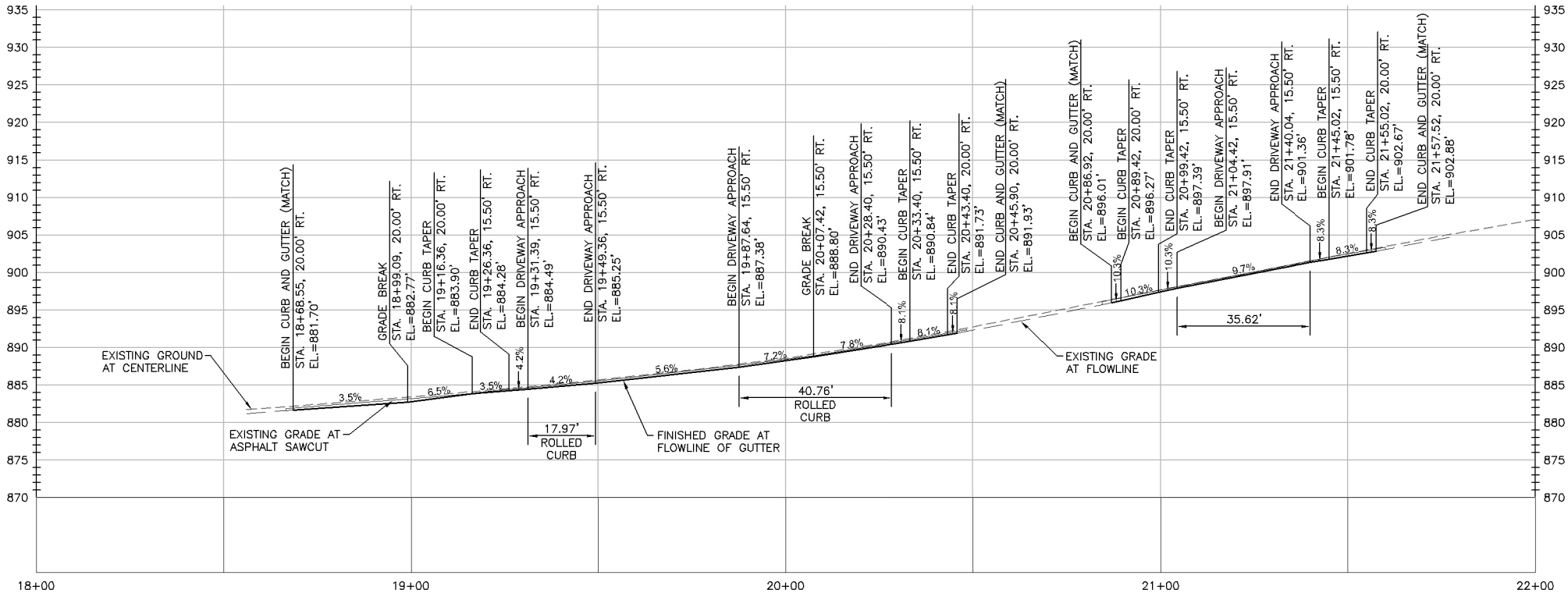
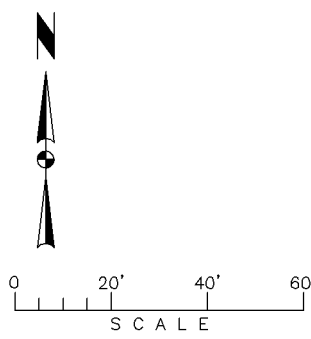
TYPICAL SECTIONS

**BID SET**





PLAN



PROFILE

BID SET

PROFESSIONAL ENGINEER  
0145  
STATE OF IDAHO  
D. L. WITTMAN

REV  
DATE  
REVISION

TD&H  
Engineering

GREAT FALLS, BOZEMAN, KALISPELL, SHELBY, MONTANA  
SPOKANE, WASHINGTON  
PORTLAND, OREGON  
WATSON CITY, NORTH DAKOTA

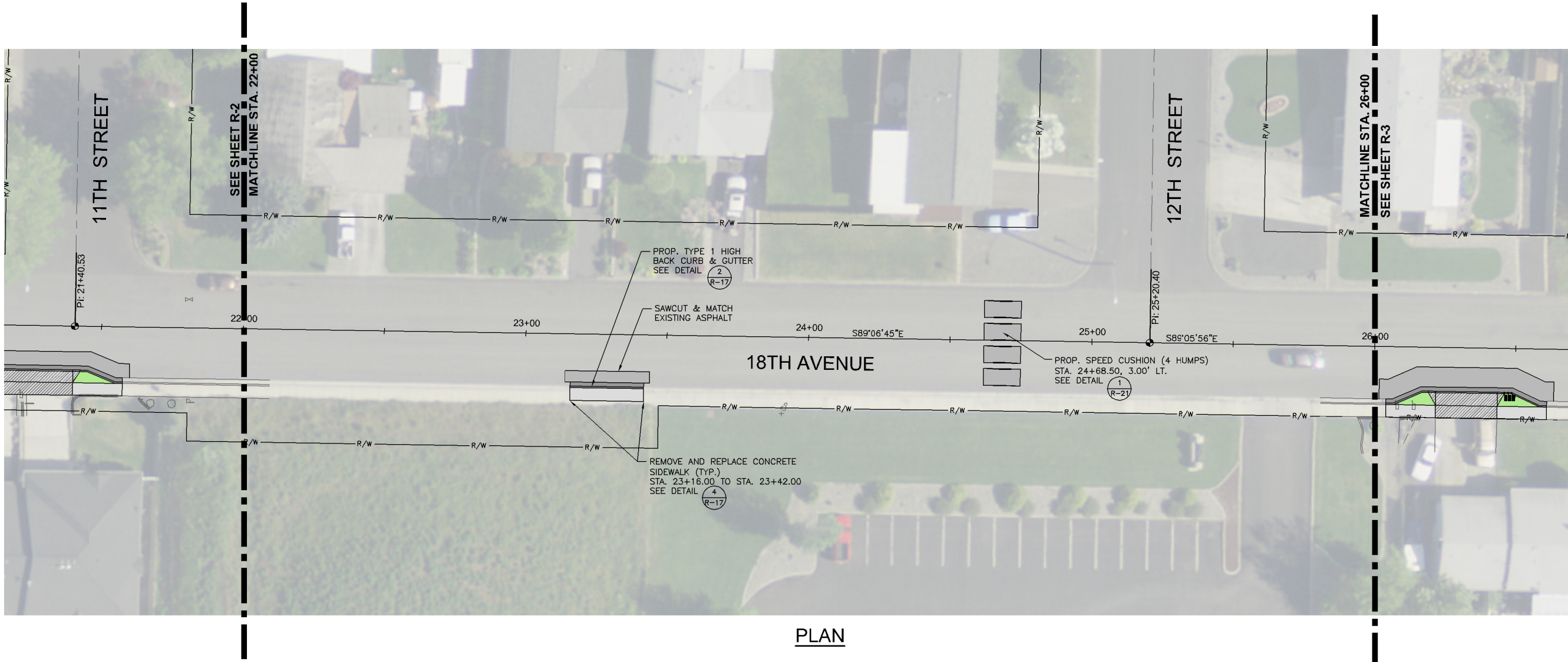
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FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

PLAN & PROFILE  
STA. 17+60 TO STA. 22+00

L14-006 R-1.DWG  
SHEET R-1





PLAN

BID SET

PROFESSIONAL ENGINEER  
STATE OF IDAHO  
D.L. WITTWAS

REV

DATE

REVISION

TD&H  
Engineering

GREAT FALLS, BOZEMAN, KALISPELL, SHELBY, MONTANA  
SPOKANE, WASHINGTON  
PAIDSON, IDAHO  
WATERBURY, VERMONT

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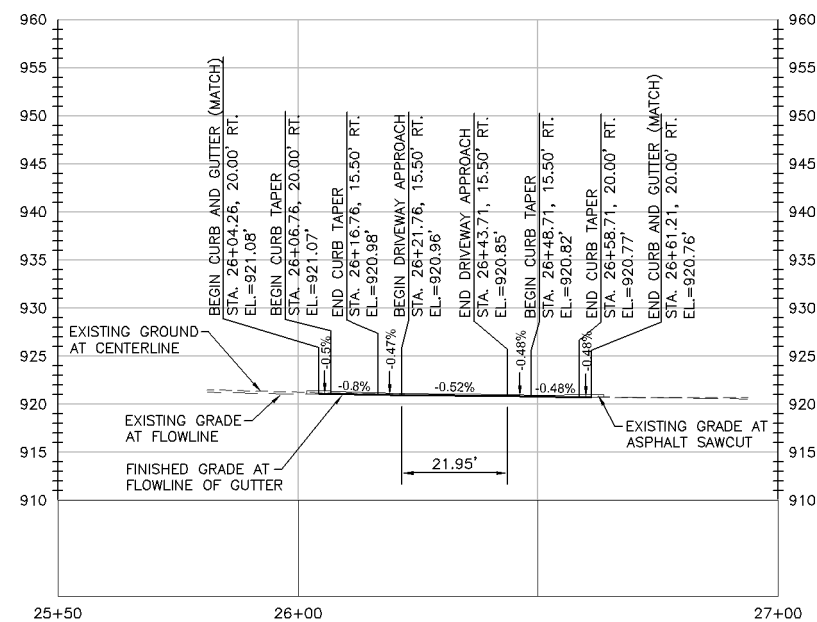
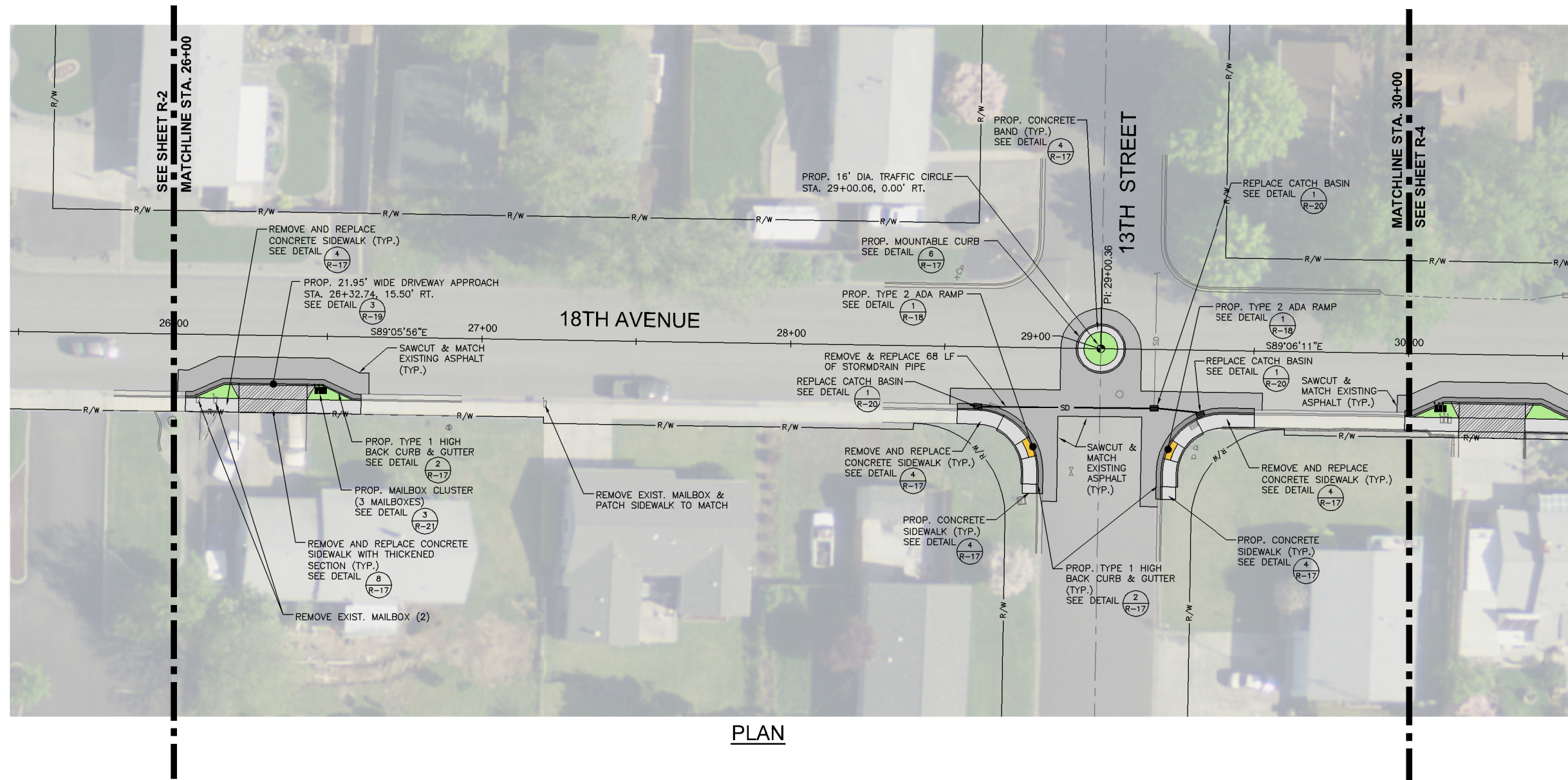
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

PLAN & PROFILE  
STA. 22+00 TO STA. 26+00

L14-006 R-2.DWG

SHEET R-2

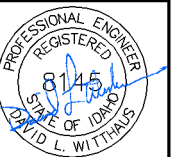
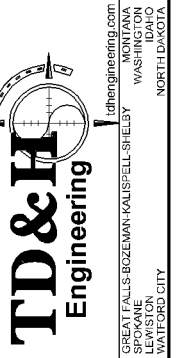




NOTE:  
SEE SHEET R-11 FOR STORM DRAIN  
CATCH BASIN AND PIPE REQUIREMENTS.



## BID SET

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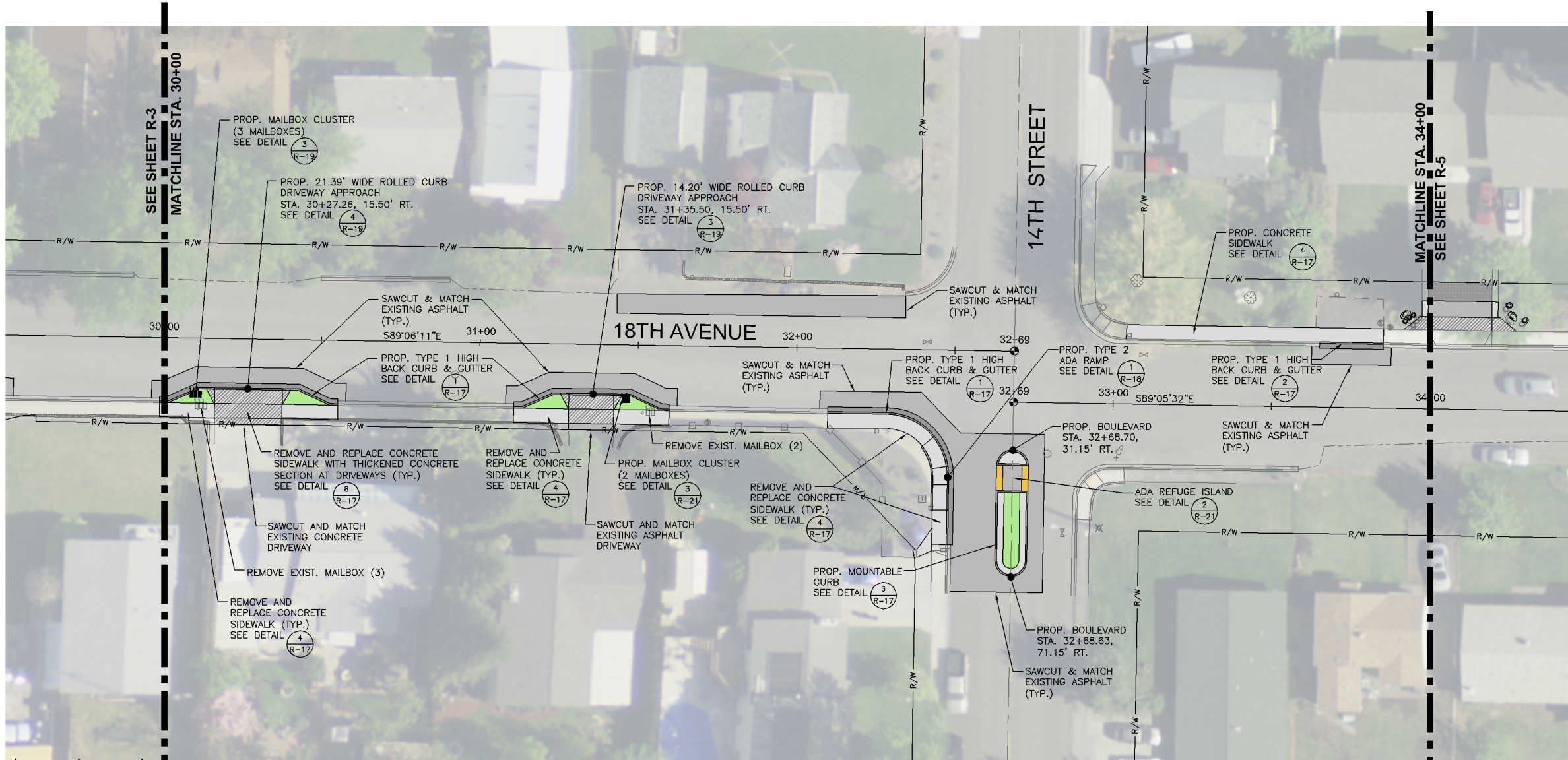
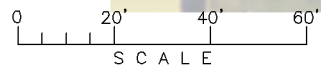
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ELDBOOK	

SISKIYOU COUNTY, CALIFORNIA  
 LAMAR, IDAHO  
 PLAN & PROFILE  
 STA. 26+00 TO STA. 30+00

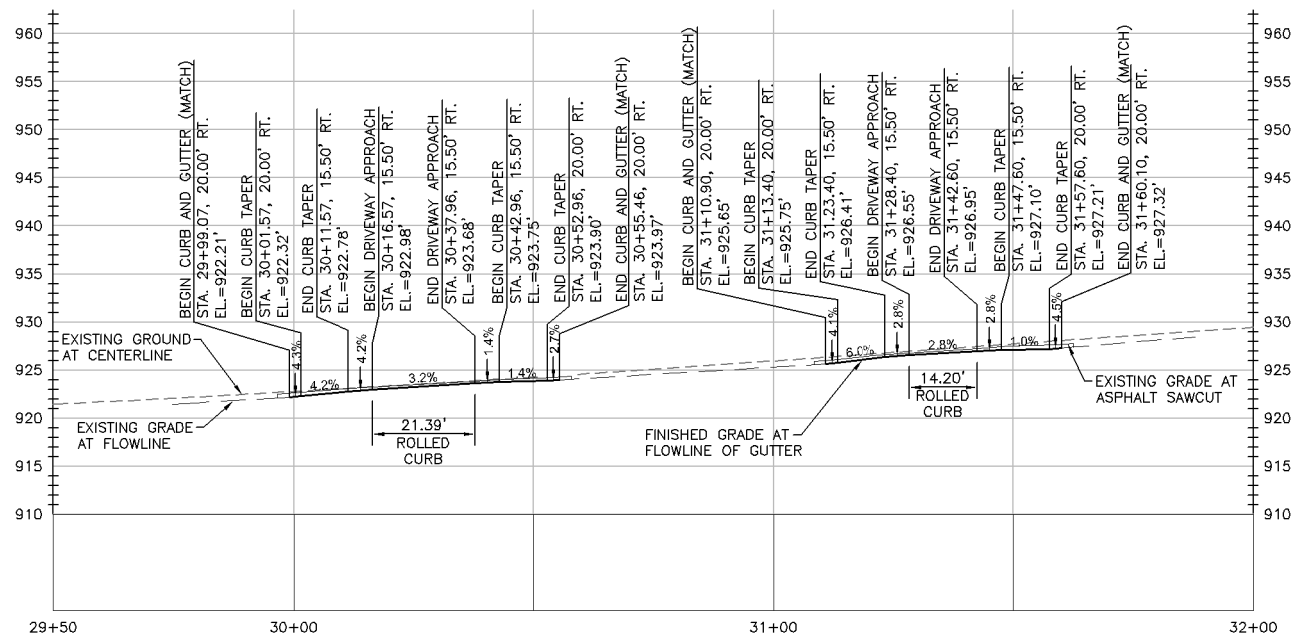
L14-006 R-3.DWG

SHEET **R-3**





PLAN



PROFILE

BID SET

PROFESSIONAL ENGINEER  
0145  
DAVID L. WITTMAN  
STATE OF IDAHO

REV

DATE

REVISION

TD&H  
Engineering

GREAT FALLS, BOZEMAN, KALISPELL, SHELLEY, MONTEZUMA, SPOKANE, WASHINGTON, IDAHO, NORTH DAKOTA

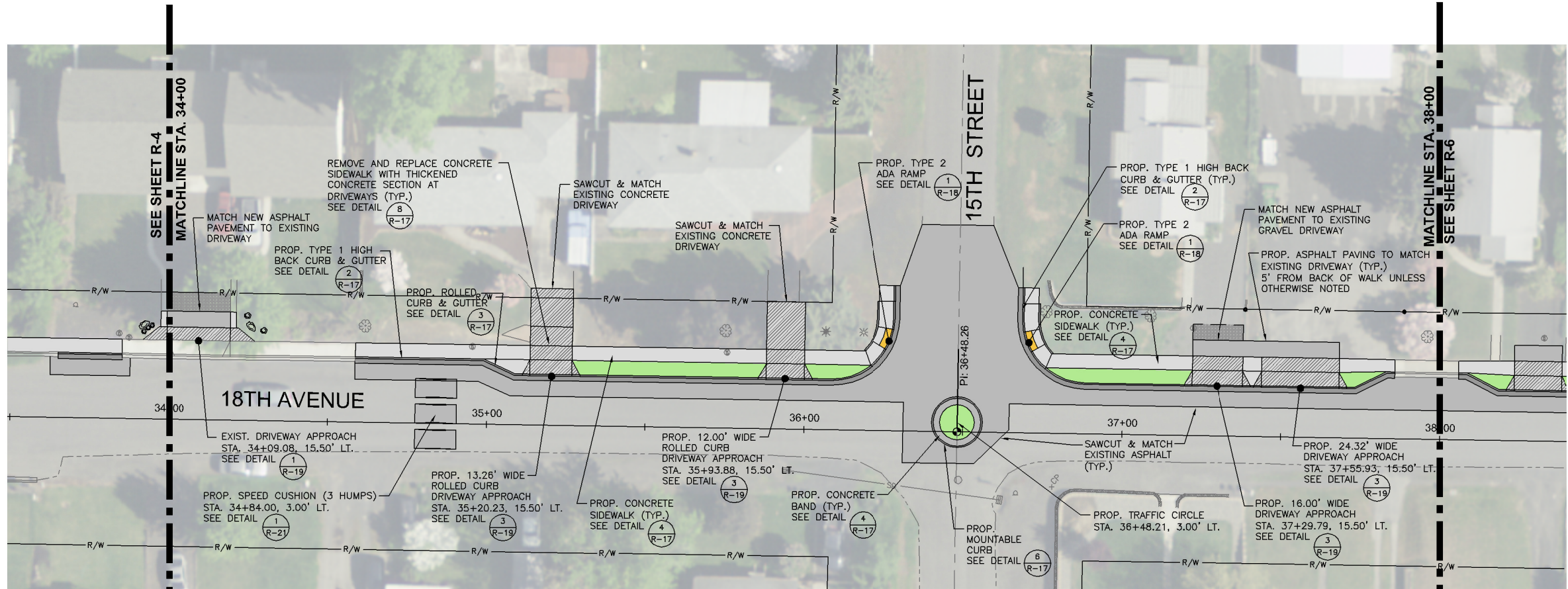
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LEWISTON, IDAHO

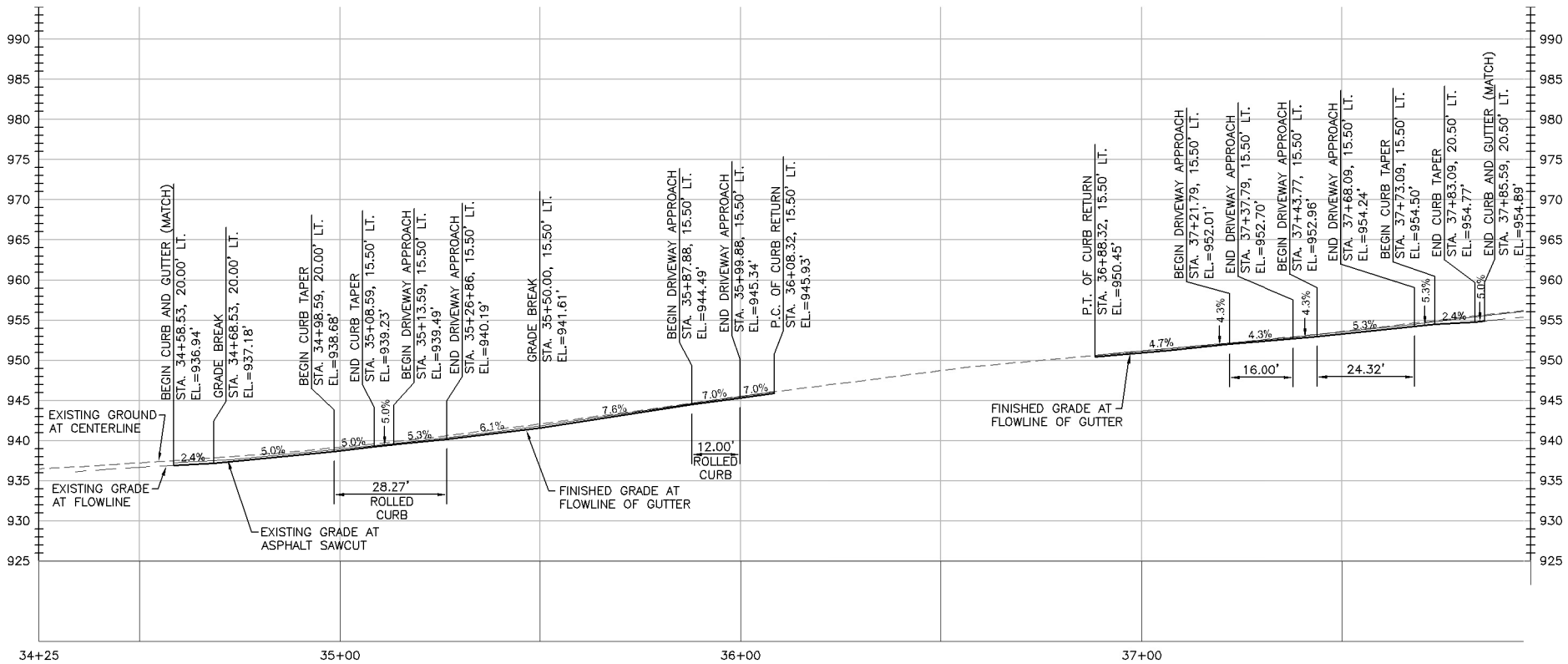
PLAN & PROFILE  
STA. 30+00 TO STA. 34+00

L14-006 R-4.DWG  
SHEET R-4





PLAN



PROFILE

BID SET

PROFESSIONAL ENGINEER  
REGISTERED  
STATE OF IDAHO  
DAVID L. WITTMANN

REV

DATE

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Engineering

GREAT FALLS, BOZEMAN, KALISPELL, SHELLEY, MONTANA  
SPOKANE, WASHINGTON  
PORTLAND, OREGON  
WATERLOO, IOWA

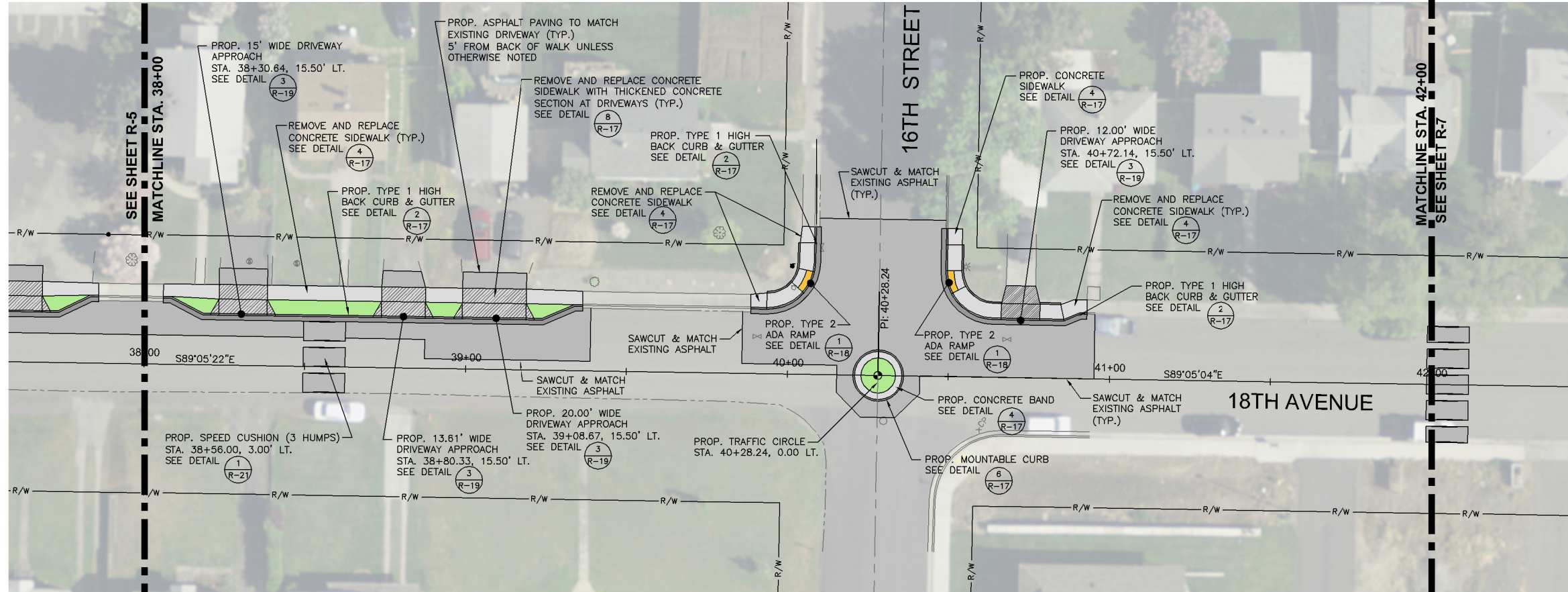
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QUALITY CHECK: DLW  
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FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

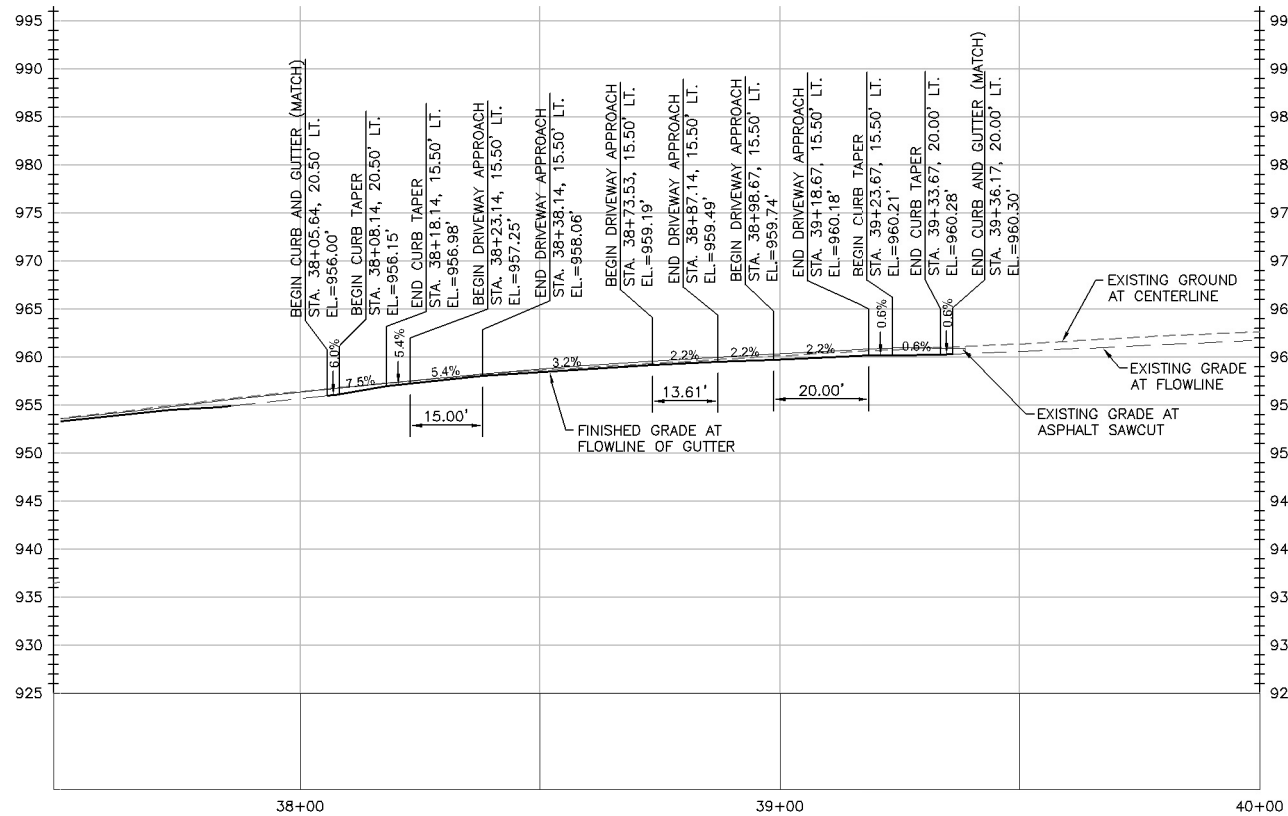
PLAN & PROFILE  
STA. 34+00 TO STA. 38+00

L14-006 R-5.DWG  
SHEET R-5





PLAN



PROFILE

BID SET

PROFESSIONAL ENGINEER  
0145  
STATE OF IDAHO  
D L WITTMAN

REVISION

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DATE: 6/26/14  
JOB NO. L14-006  
FIELDBOOK

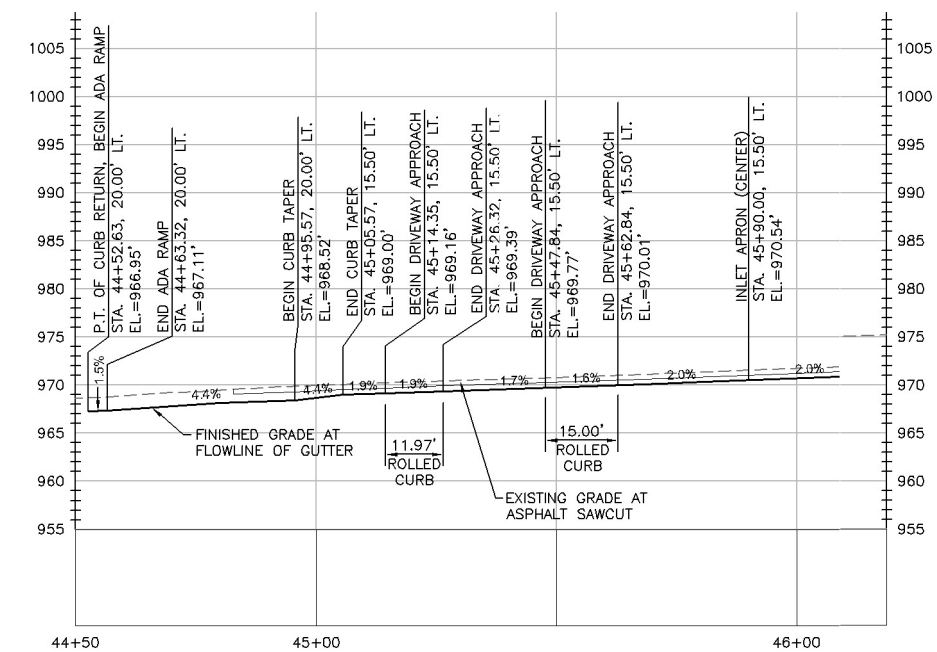
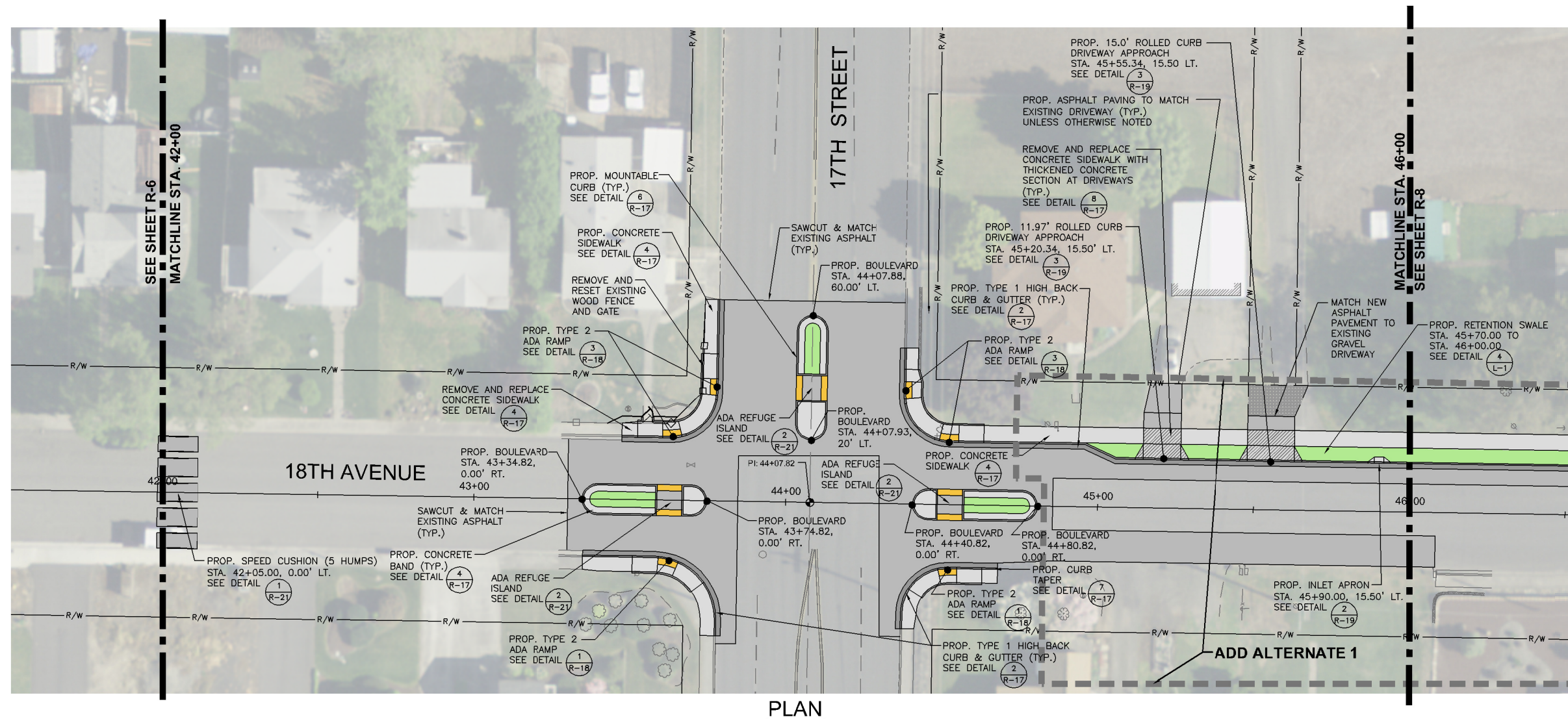
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

PLAN & PROFILE  
STA. 38+00 TO STA. 42+00

L14-006 R-6.DWG

SHEET R-6





## BID SET



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SPOKANE	WASHINGTON
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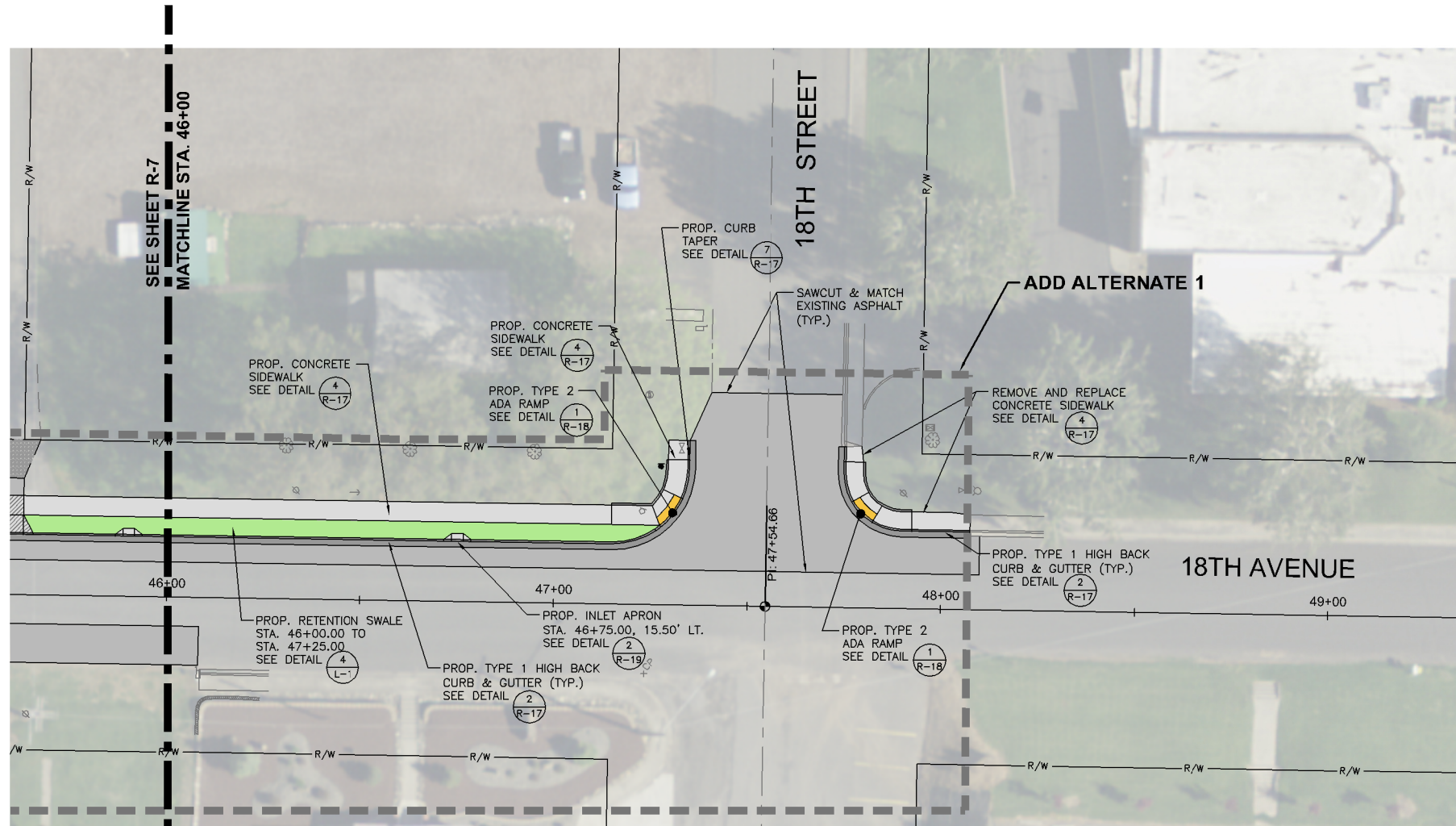
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LEWISTON, IDAHO**

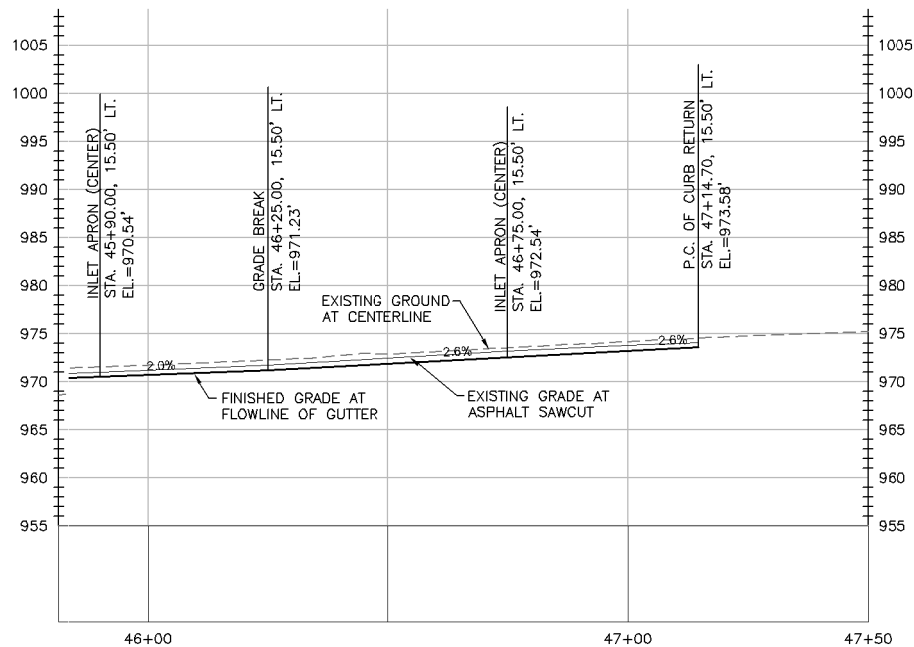
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L14-006 R-7 .DWG

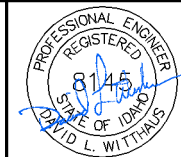
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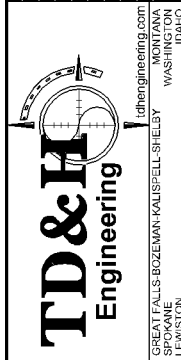
PLAN



PROFILE



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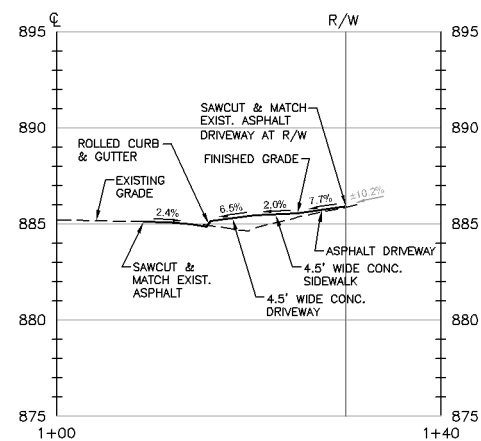
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FIELDBOOK	

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LEWISTON, IDAHO

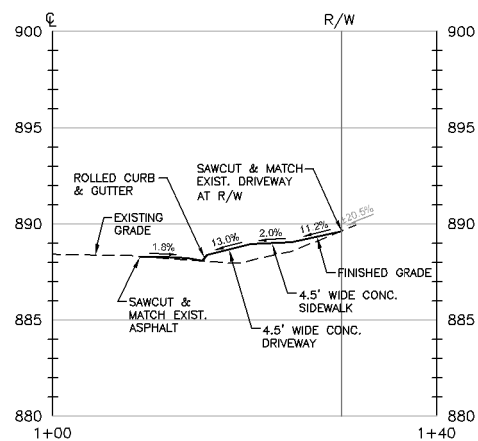
PLAN & PROFILE  
STA. 46+00 TO STA. 48+00

BID SET

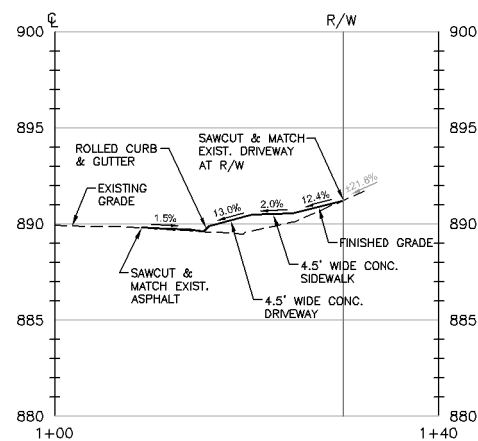




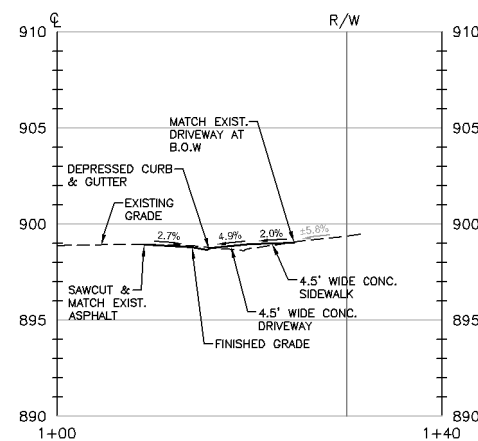
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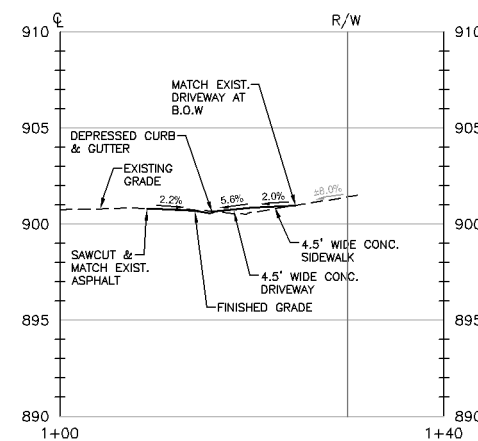
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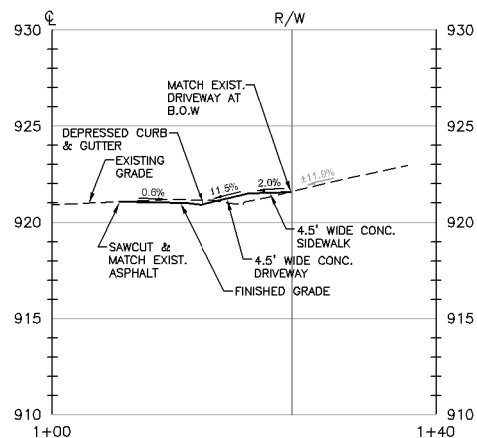
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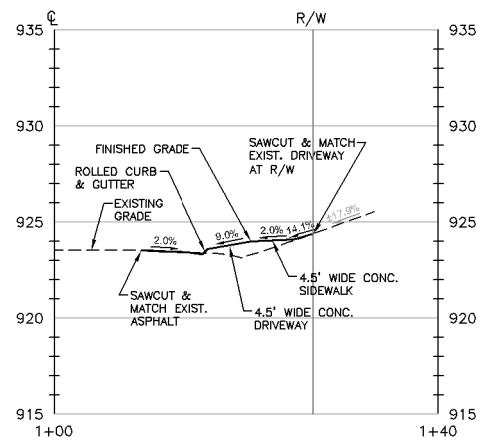
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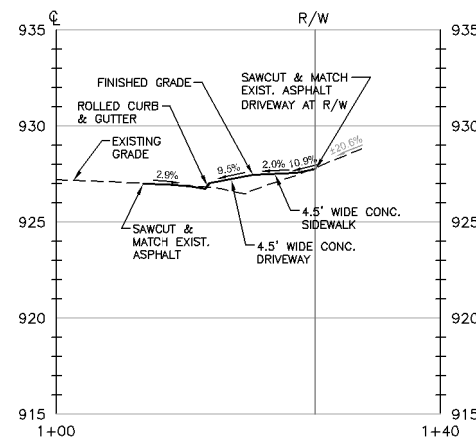
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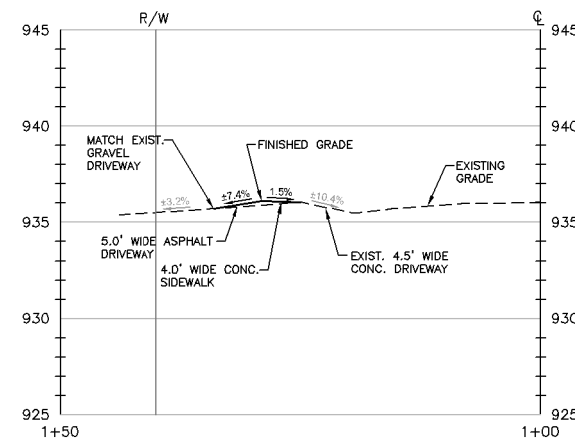
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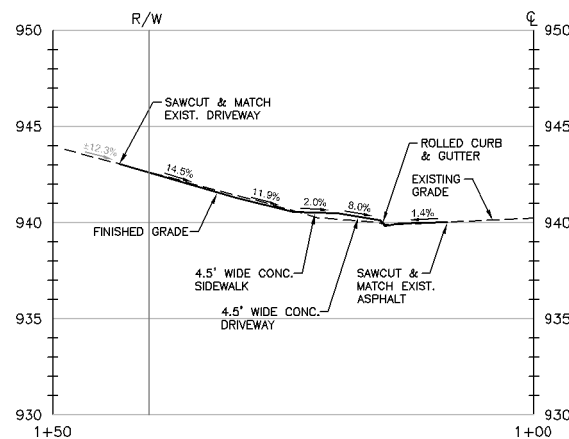
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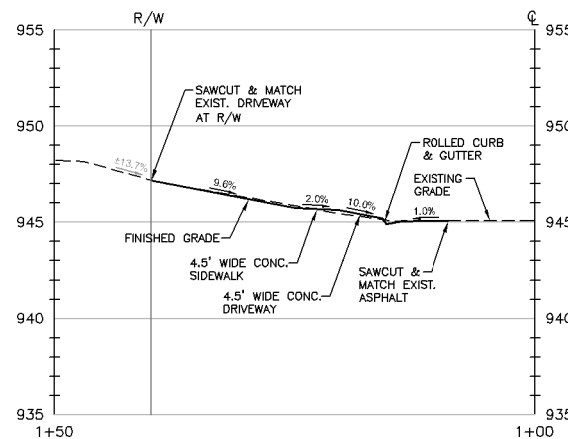
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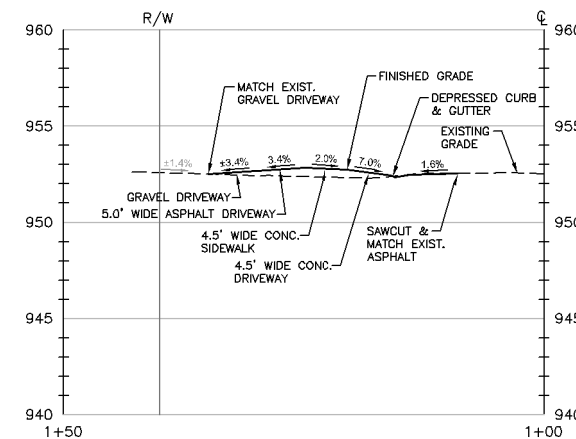
STA. 34+09.08 LT.



STA. 35+20.23 LT.



STA. 35+93.88 LT.



STA. 37+29.79 LT.

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JOB NO. L14-006	FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

LEWISTON, IDAHO

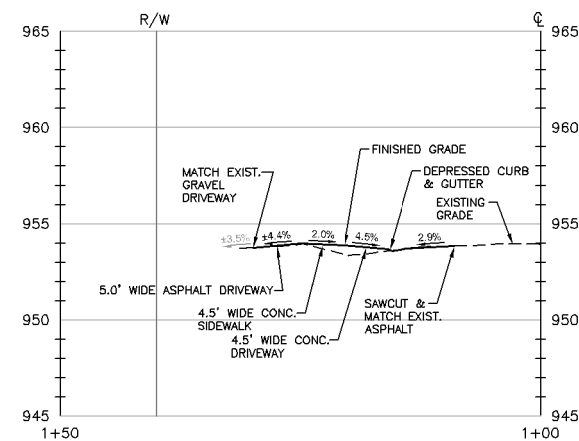
DRIVEWAY APPROACH PROFILES

SHEET

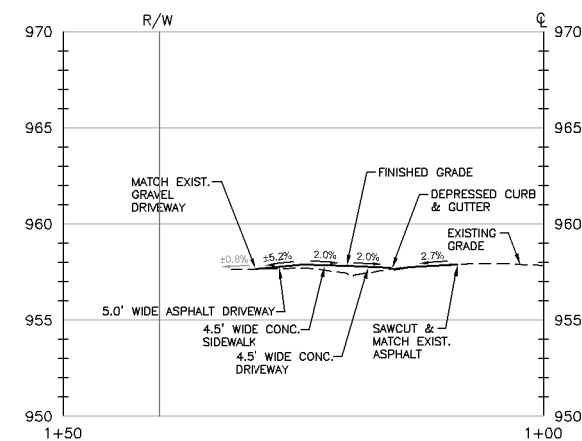
R-9

L14-006 R-9.DWG

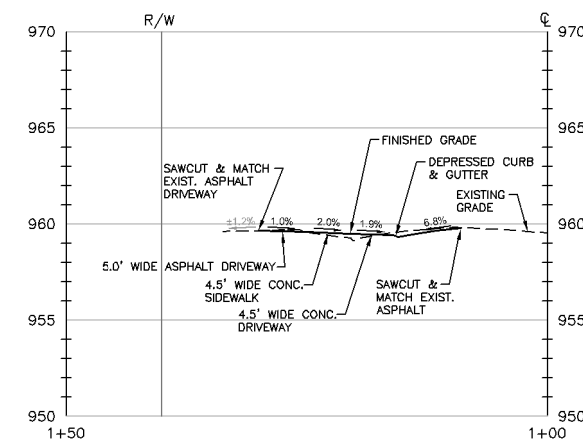




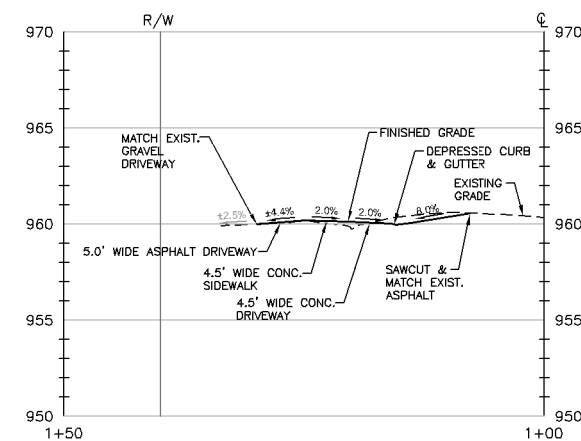
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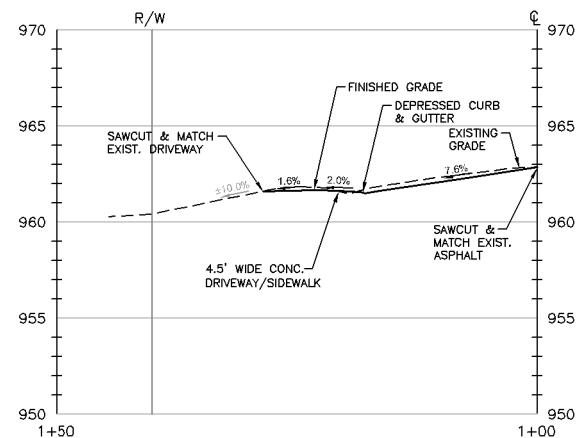
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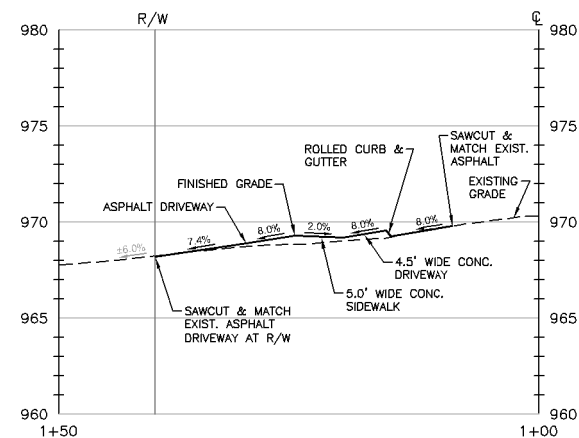
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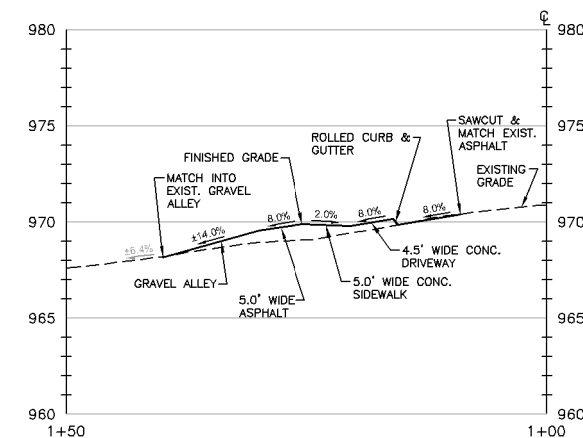
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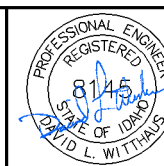
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STA. 45+20.34 LT.



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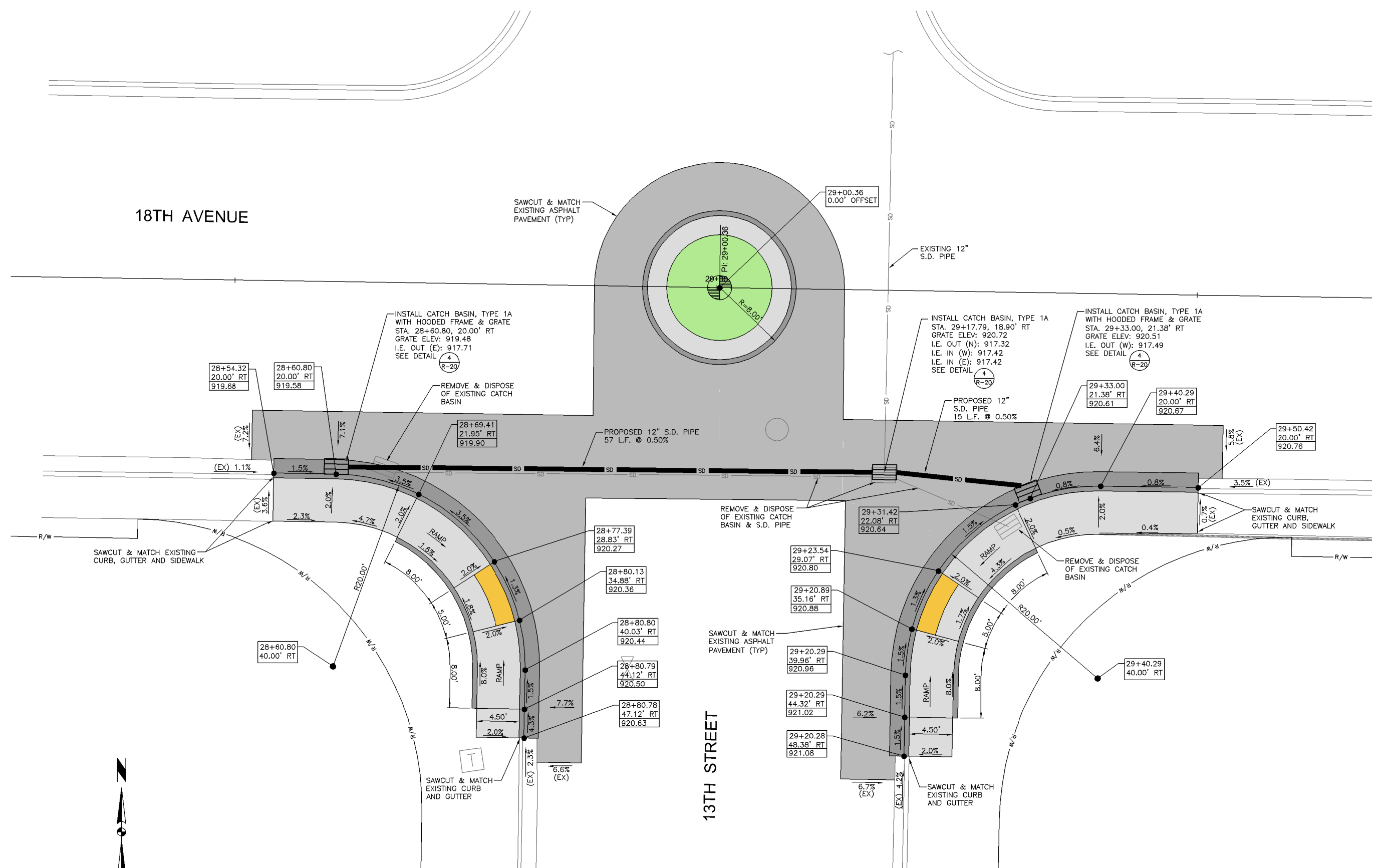
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QUALITY CHECK: DLW  
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JOB NO. L14-006  
FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO  
DRIVEWAY APPROACH PROFILES

BID SET



13TH STREET AND 18TH AVENUE INTERSECTION DETAIL

BID SET

PROFESSIONAL ENGINEER  
REGISTERED  
STATE OF IDAHO  
DAVID L. WITTMANN

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SPOKANE, WASHINGTON  
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WATERGARD CITY, NORTH DAKOTA

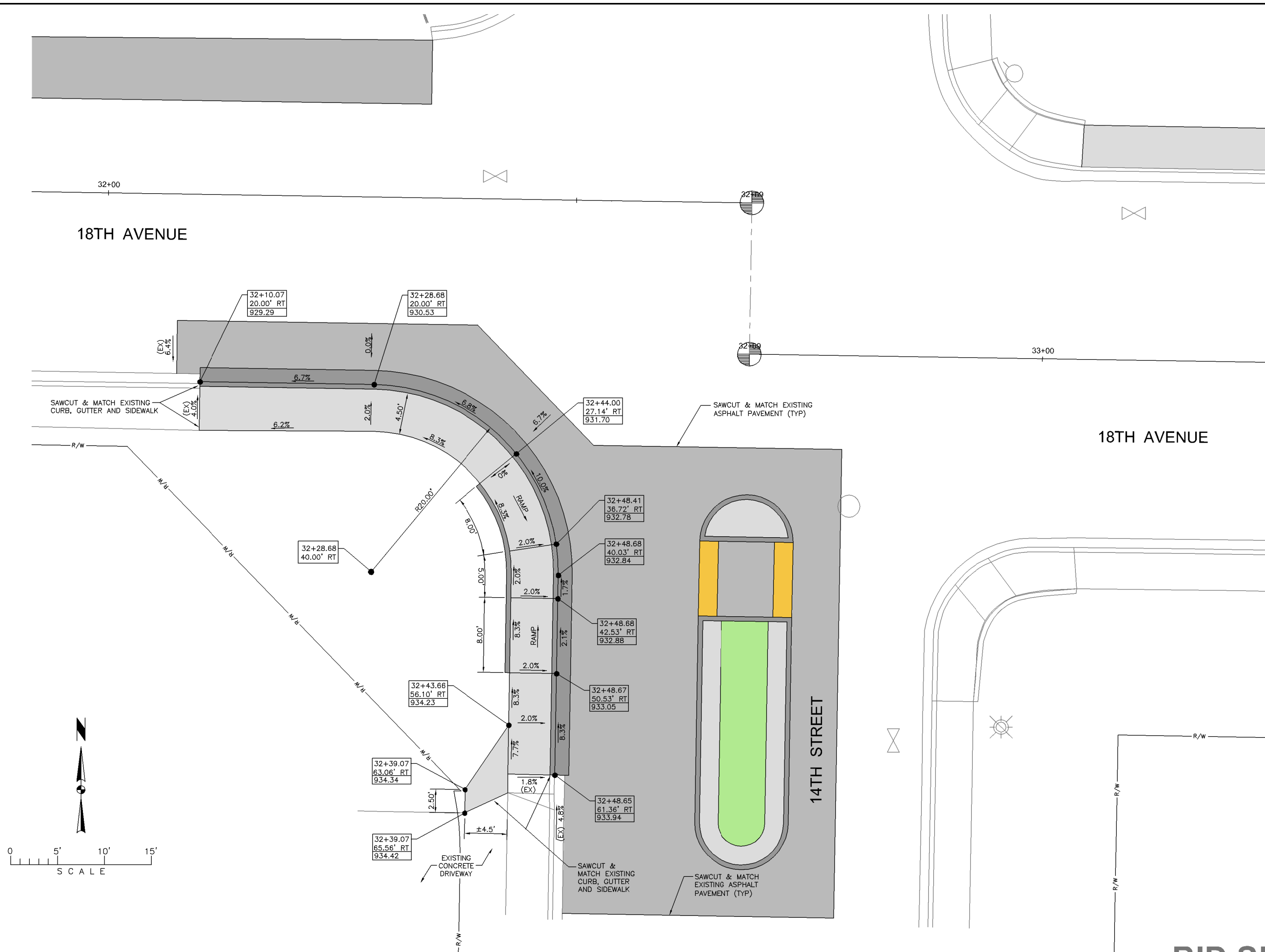
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FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

INTERSECTION DETAILS

L14-006 R-11.DWG  
SHEET R-11





14TH STREET AND 18TH AVENUE INTERSECTION DETAIL

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REGISTERED  
STATE OF IDAHO  
DAVID L. WITTMAN

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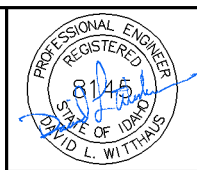
GREAT FALLS, BOZEMAN, KALISPELL, SHELLEY, MONTANA  
SPOKANE, WASHINGTON  
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LEWISTON, IDAHO

INTERSECTION DETAILS

L14-006 R-12.DWG  
SHEET R-12



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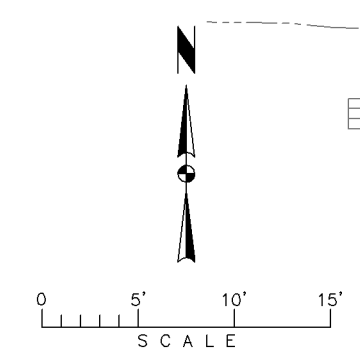
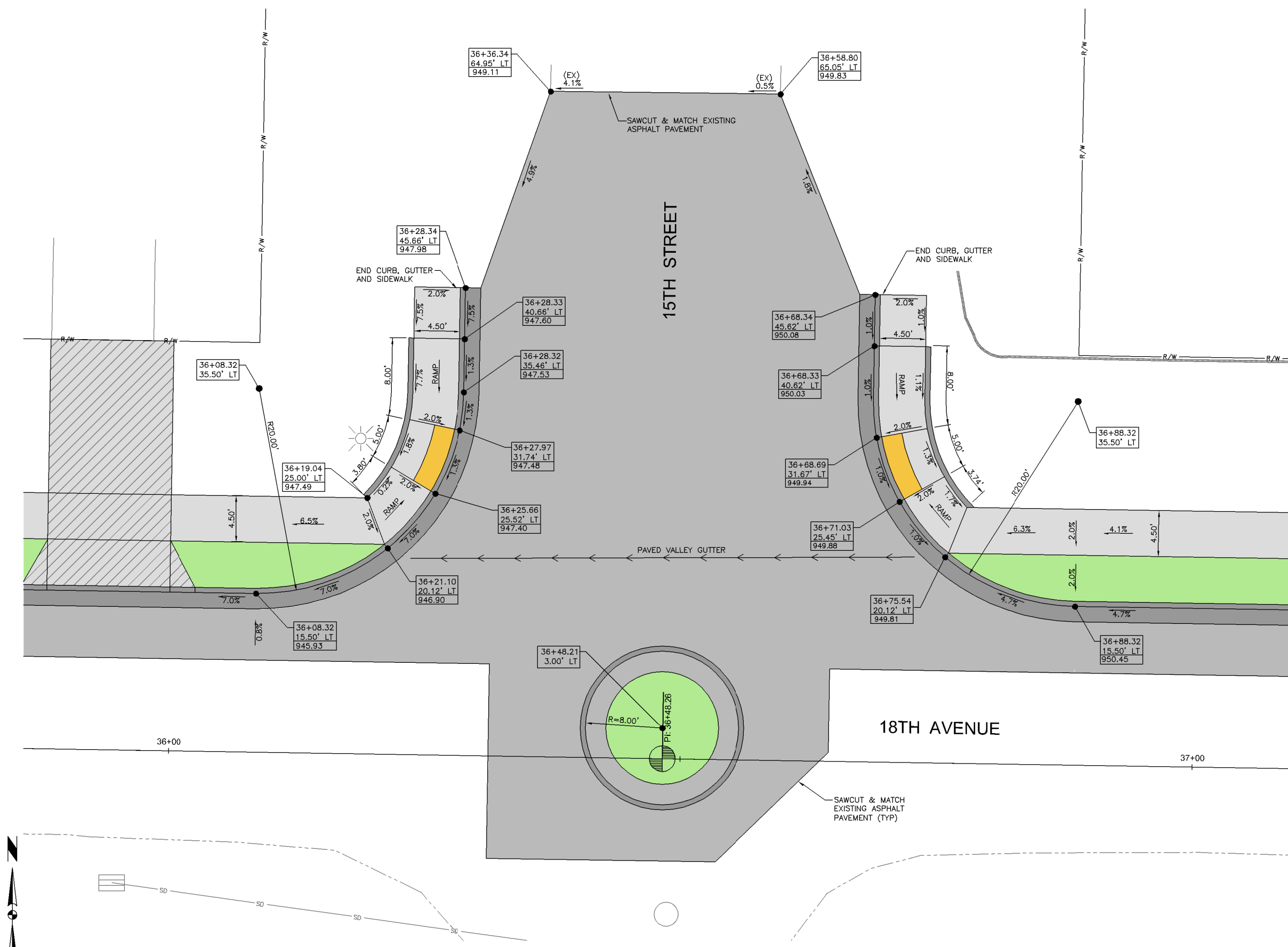
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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

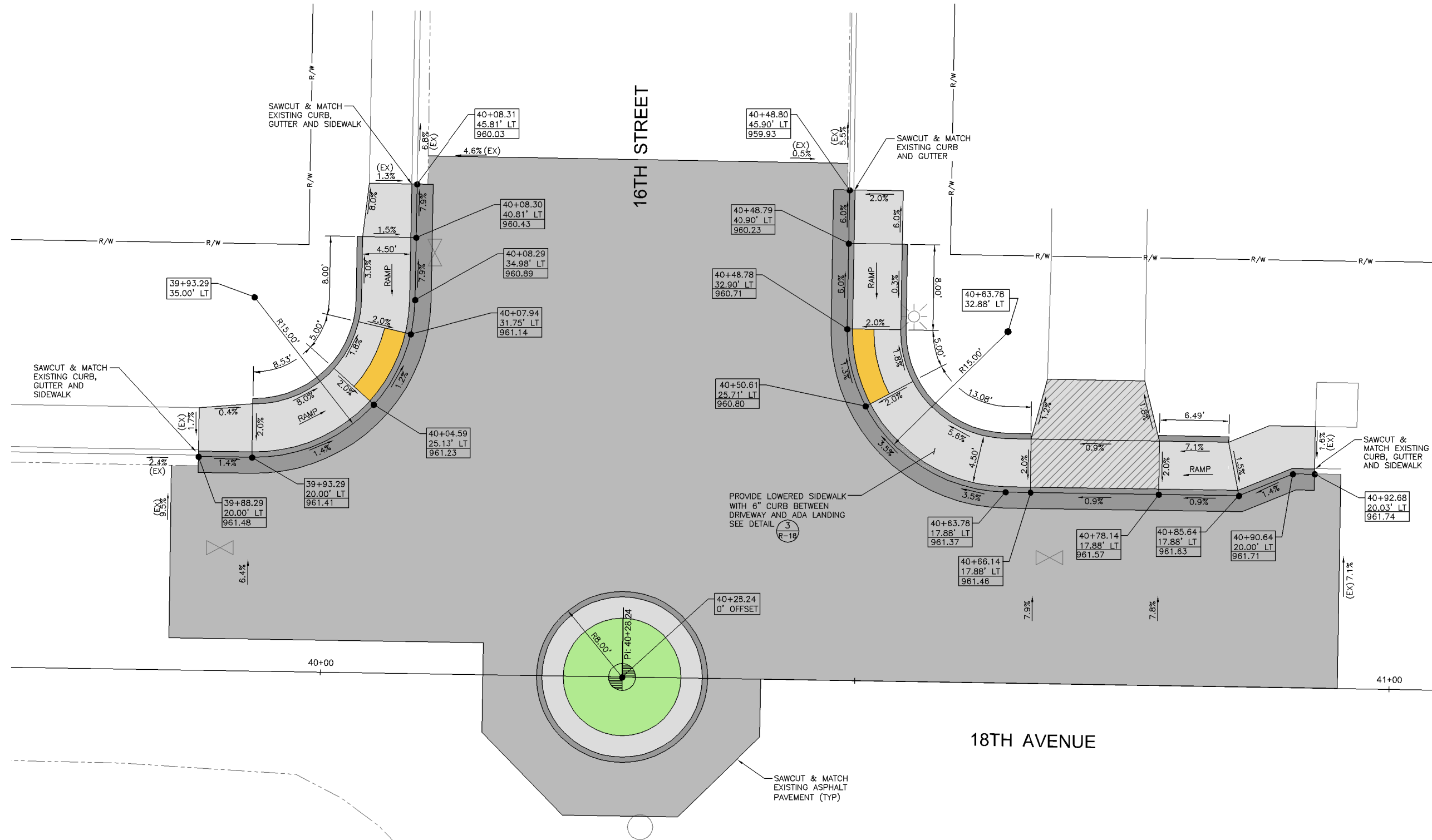
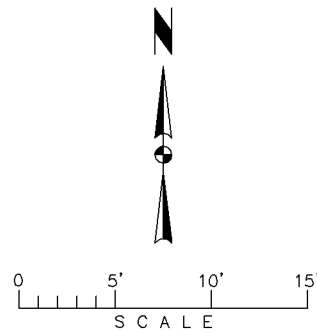
INTERSECTION DETAILS



15TH STREET AND 18TH AVENUE INTERSECTION DETAIL

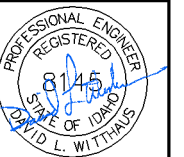
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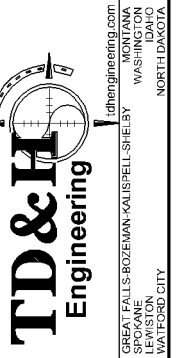


16TH STREET AND 18TH AVENUE INTERSECTION DETAIL

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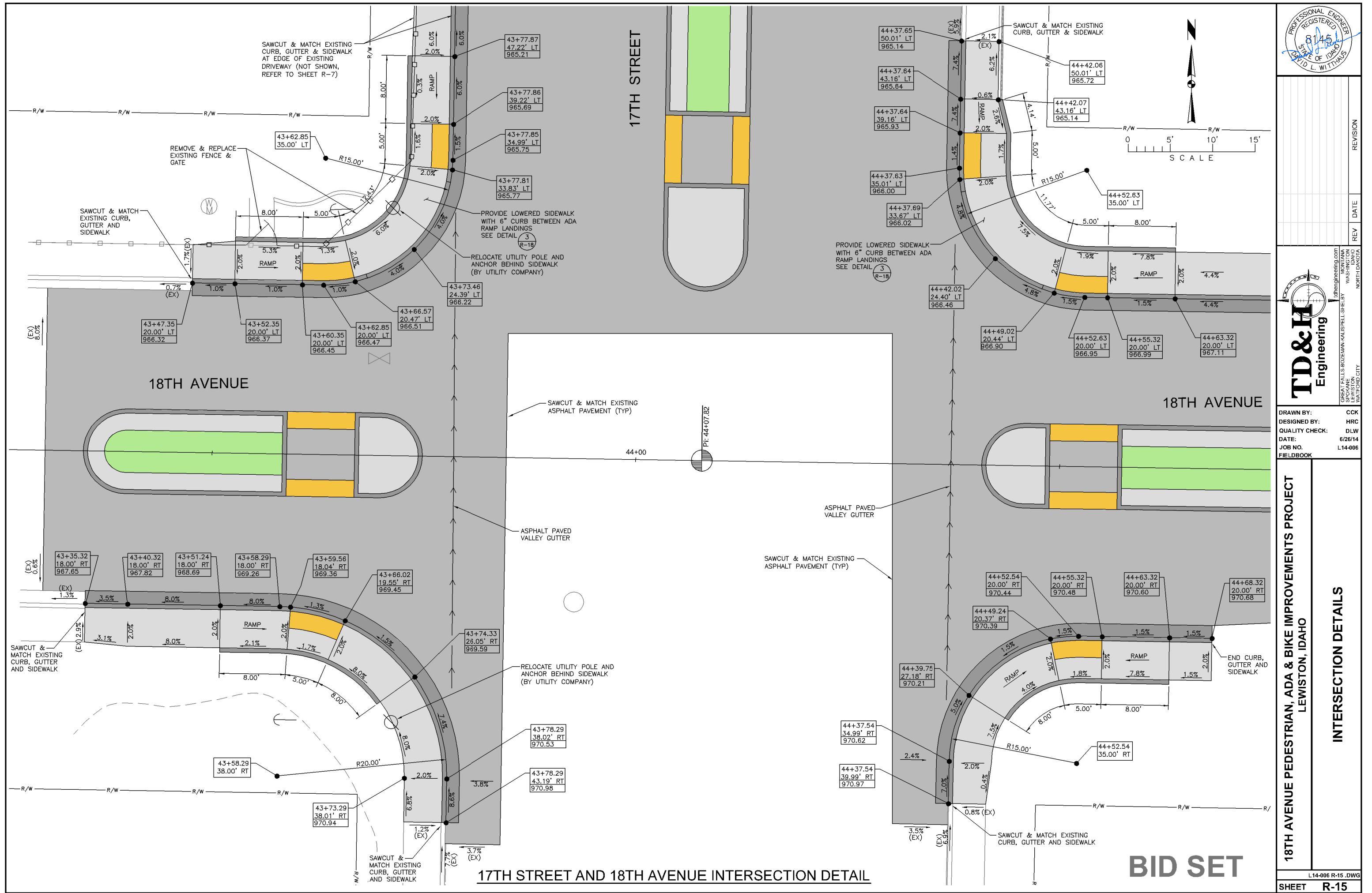


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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO  
INTERSECTION DETAILS



PROFESSIONAL ENGINEER  
8145  
STATE OF IDAHO  
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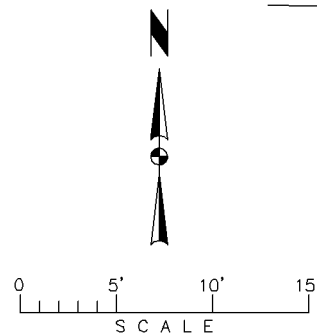
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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

INTERSECTION DETAILS

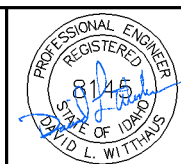
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SHEET R-15





18TH STREET AND 18TH AVENUE INTERSECTION DETAIL

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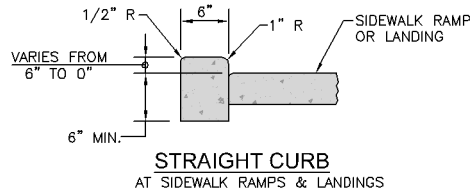
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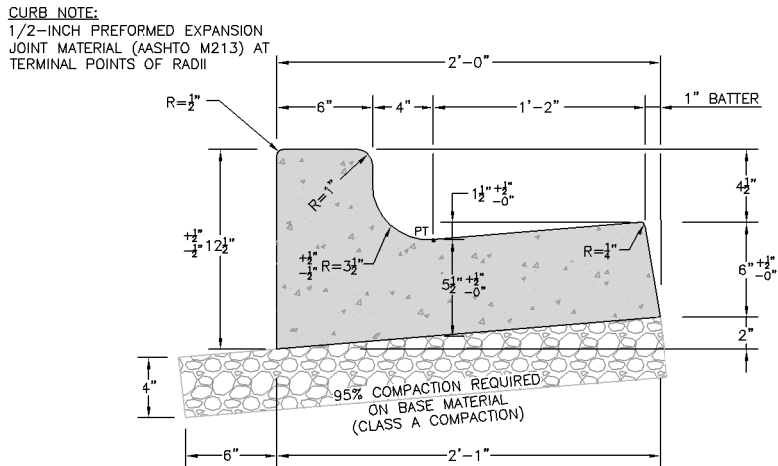
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

INTERSECTION DETAILS



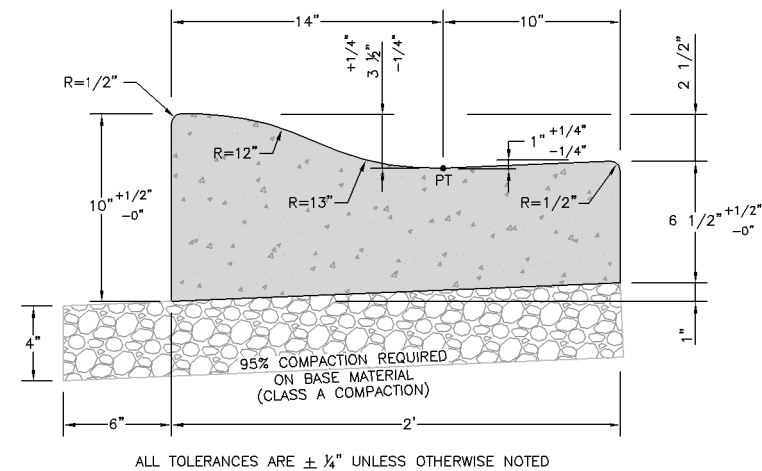
STRAIGHT CURB  
NOT TO SCALE

1  
R-17



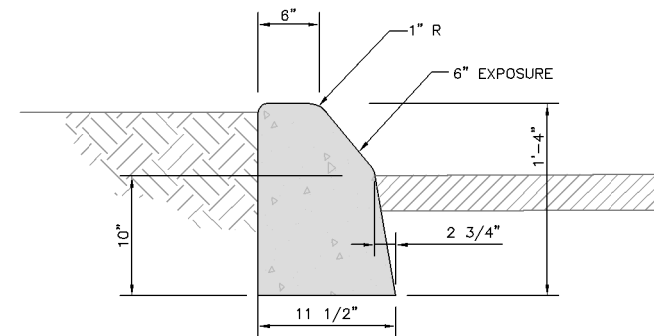
TYPE 1 HIGH BACK CURB & GUTTER  
NOT TO SCALE

2  
R-17



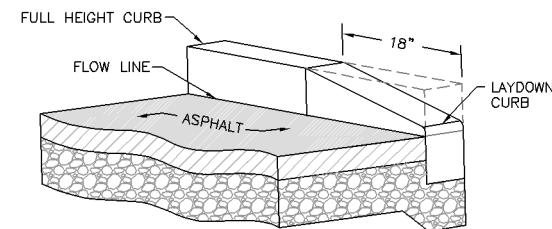
ROLLED CURB & GUTTER  
NOT TO SCALE

3  
R-17



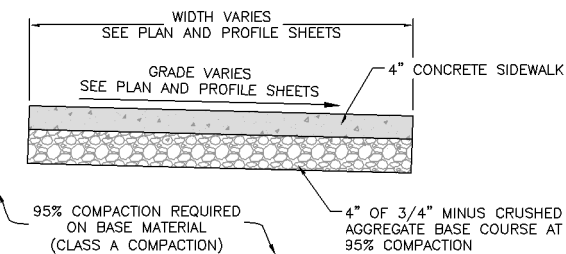
MOUNTABLE TYPE 'A' CURB  
NOT TO SCALE

6  
R-17



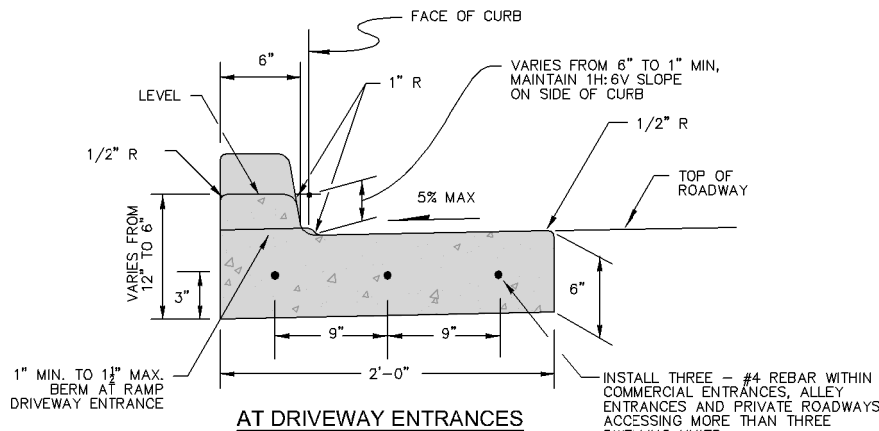
CURB TAPER DETAIL  
NOT TO SCALE

7  
R-17



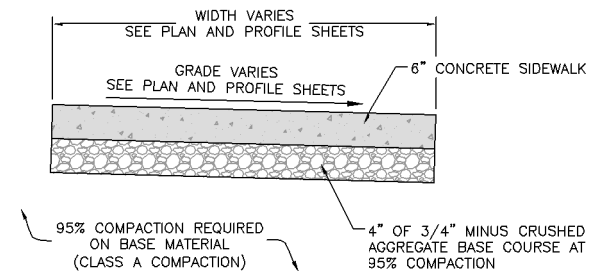
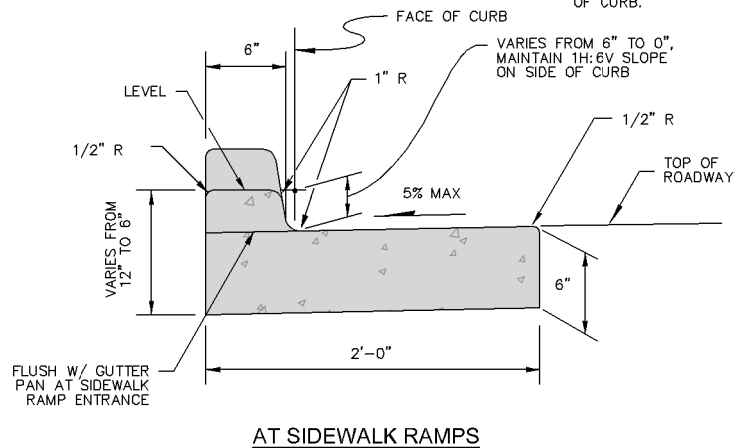
4" CONCRETE SIDEWALK  
NOT TO SCALE

4  
R-17



DEPRESSED CURB SECTION  
NOT TO SCALE

5  
R-17



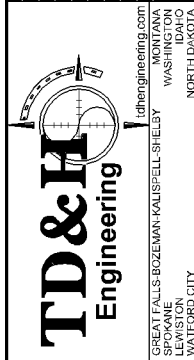
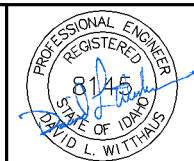
6" CONCRETE SIDEWALK  
NOT TO SCALE

8  
R-17

GENERAL NOTES FOR ALL CURB & GUTTER

1. SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.
2. GRADE, ALIGNMENT AND CURB TYPE SHALL BE AS APPROVED BY THE CITY ENGINEER.
3. ALIGNMENT AND GRADE STAKED TO LIP OF GUTTER (LIP) SHALL BE ESTABLISHED OR APPROVED BY THE CITY ENGINEER.
4. THE TOLERANCE FOR FINISHED CURB AND GUTTER - MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH
5. BASE MATERIAL SHALL BE 4" OF 3/4 INCH MINUS [CURRENT ITS SPC 703.04] OR 5/8 INCH MINUS [CURRENT WDOT/M41-10 SPEC9-03.9] CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" TO 8" MAXIMUM LIFTS. IN AREAS OF SMALL PROJECTS, LIMITED HEAVY TRUCK TRAFFIC OR WHERE COMPACTION EQUIPMENT HAS LIMITED ACCESS A REDUCED % COMPACTION MAY BE ALLOWED WITH WRITTEN APPROVAL FROM PUBLIC WORKS DIRECTOR.
6. CONCRETE SHALL BE 3,000 PSI MINIMUM AT 28 DAYS, MAXIMUM WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
7. DUMMY JOINTS AT 10 FOOT INTERVALS AND AT CURB RADII, 3/4" TO 1" DEEP. CONSTRUCTION JOINTS LOCATIONS AS DIRECTED BY CITY ENGINEER. DIFFERENTIAL ELEVATION BETWEEN ADJACENT SECTIONS SHALL NOT EXCEED 1/4".
8. THE CONTRACTOR IS REQUIRED BY THE PUBLIC WORKS DEPARTMENT TO MARK STUB-OUTS AND VALVES IN THE UNCURED CONCRETE.
9. THE CONTRACTOR OR OWNER SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT FOR INSPECTION AFTER THE FORMS ARE SET AND THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE FOR A FINAL INSPECTION. FAILURE TO NOTIFY THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND GUTTER.
10. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PARALLEL WITH THE LENGTH OF THE CURB.
11. APPLY UNIFORM COAT OF REZ-SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.

BID SET

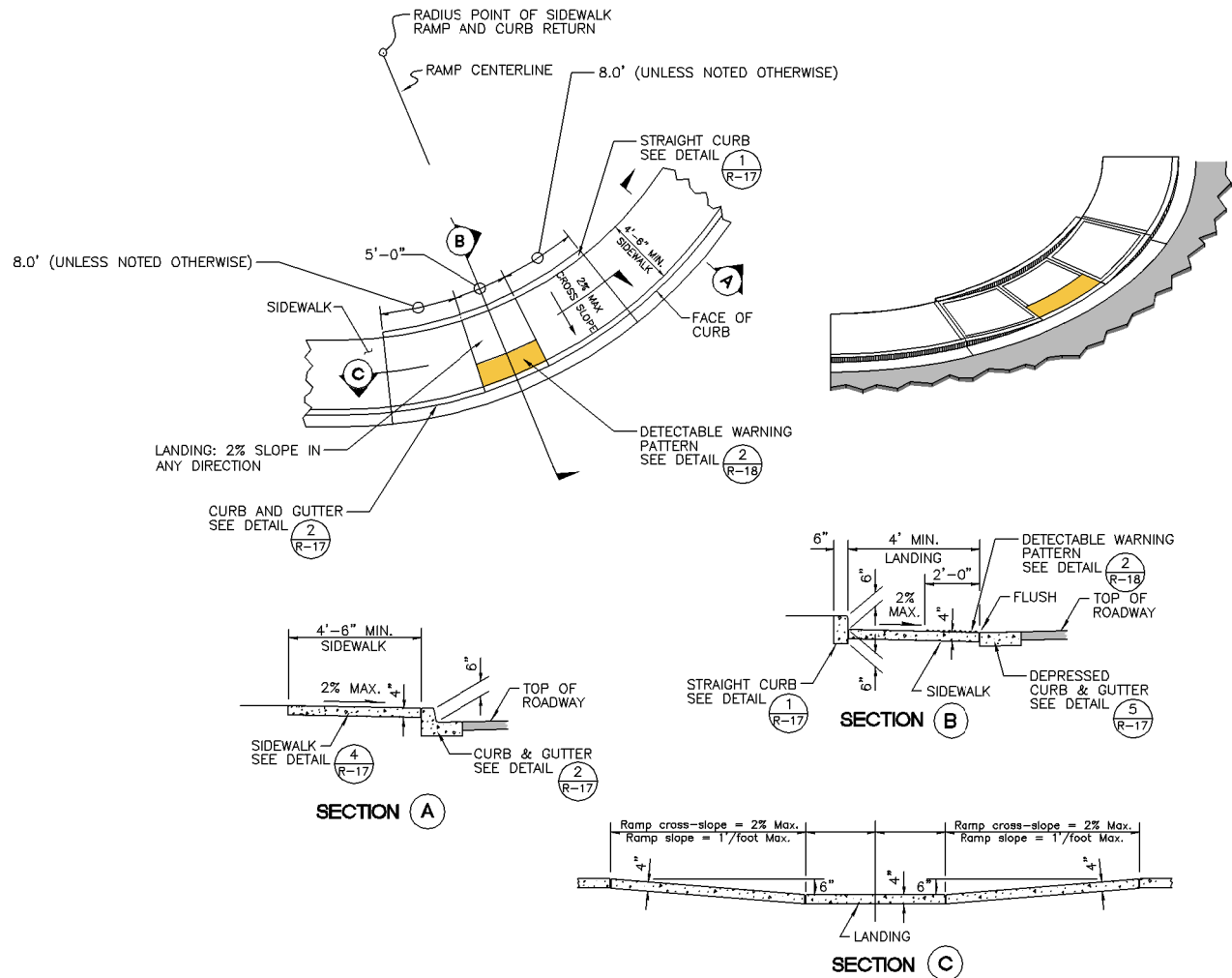


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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

DETAILS





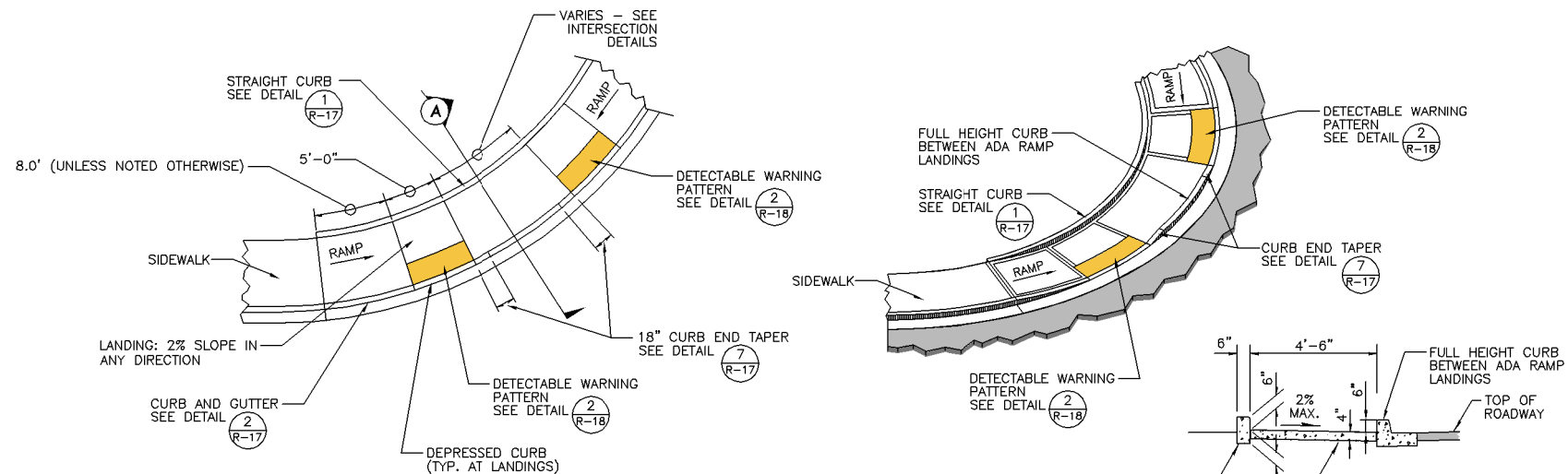
NOTES:

1. DETECTABLE WARNING PATTERN TILE SHALL BE YELLOW TRUNCATED-DOME TYPE.
2. RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
3. A 4'x4' LANDING AT THE BOTTOM OF THE RAMP WITH 2% SLOPE IN ALL DIRECTIONS.
4. PLACEMENT OF DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS WITHIN/OR FRONT OF RAMP OR LANDING IS PROHIBITED.

SIDEWALK RAMP TYPE 2

NOT TO SCALE

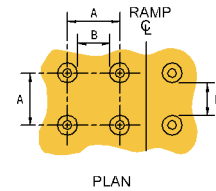
1  
R-18



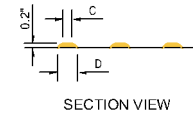
SIDEWALK RAMP TYPE 2  
W/FULL HEIGHT CURB BETWEEN LANDINGS

NOT TO SCALE

3  
R-18



PLAN



SECTION VIEW

	MIN.	MAX.
A	1.5"	2.4"
B	.65"	1.5"
C	50%-65% OF BASE DIA.	
D	.9"	1.4"

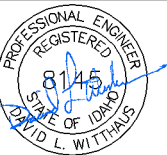
THIS PATTERN AREA SHALL  
BE YELLOW IN COLOR

NOTES:

1. DETECTABLE TRUNCATED-DOME WARNING, 2' FT WIDE, MUST BE PROVIDED FOR THE FULL WIDTH OF RAMPS AND BLENDED CONNECTIONS TO MARK THE STREET EDGE AND FULLY APPROVED BY CURRENT ADA REQUIREMENTS.
2. AT LEAST ONE CORNER OF THE DETECTABLE WARNING PANEL SHALL BE COINCIDENT TO THE BACK OF CURB.

SIDEWALK NOTES:

1. LINE AND GRADE STAKED T.S., TOP OF SIDEWALK, B.S., BACK OF SIDEWALK
2. GRADE AND ALIGNMENT TO BE APPROVED BY THE CITY ENGINEER.
3. TOLERANCE FOR FINISHED SIDEWALK- MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH
4. NO PONDING IS ALLOWED ON SIDEWALKS, STEPS OR PEDESTRIAN RAMPS.
5. BASE MATERIAL SHALL BE 4" OF 3/4" MINUS [CURRENT ITD SPEC 703.04] OR 5/8" INCH MINUS [CURRENT WDOT/M41-10 SPEC 9-03.9] CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILLS OR BACKFILL AREAS SHALL BE PLACED IN 6" MAX. LIFTS.
6. DUMMY JOINTS SHALL BE PLACED AT 5' INTERVALS, 3/4" TO 1" DEEP.
7. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, MAX. WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5±1.5.
8. THE CONTRACTOR OR OWNER SHALL NOTIFY PUBLIC WORKS DEPT. FOR INSPECTION OF BASE MATERIAL AFTER THE FORMS ARE SET AND THE PUBLIC WORKS DEPT. WILL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE, FOR FINAL INSPECTION.
9. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PERPENDICULAR TO THE LENGTH OF SIDEWALK.
10. APPLY UNIFORM COAT OF REZ-SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
11. NAME OF CONTRACTOR AND YEAR TO BE STAMPED AT EACH END OF WORK AND AT INTERVALS OF 300 FT.
12. CONCRETE SURFACE SHALL BE FREE OF SURFACE BLEMISHES OR VOIDS GREATER THAN 1/4". JOINTS AND EDGES SHALL BE CLEAN AND FREE OF EXCESS SPALLING OR VOIDS.



REV	DATE	REVISION



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DESIGNED BY: HRC  
QUALITY CHECK: DLW  
DATE: 6/26/14  
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FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

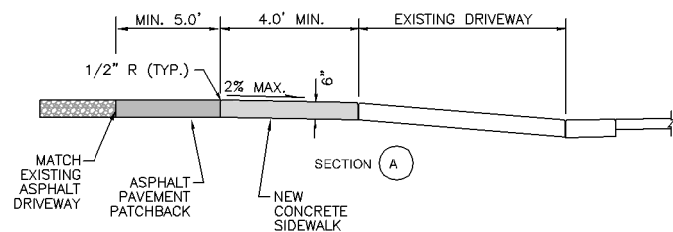
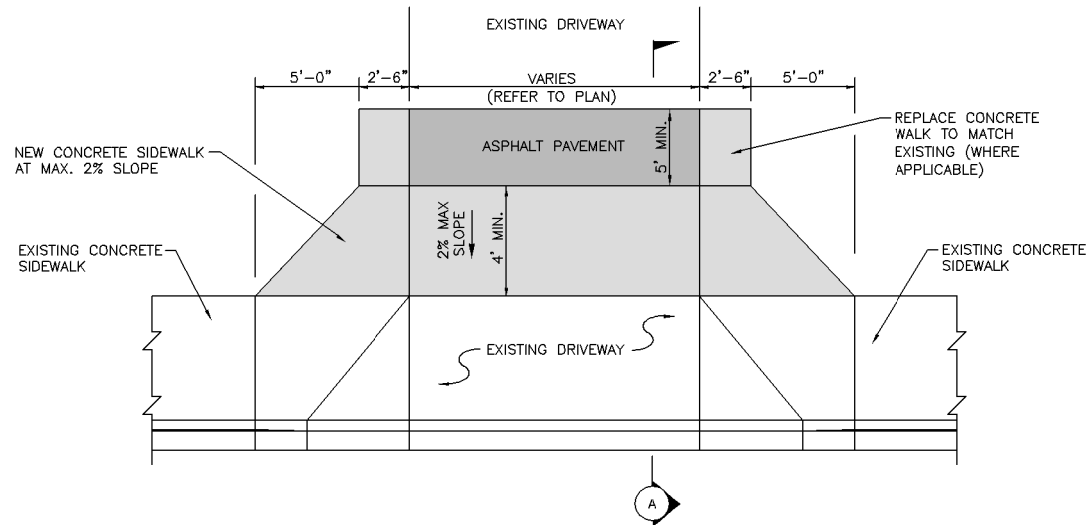
LEWISTON, IDAHO

DETAILS

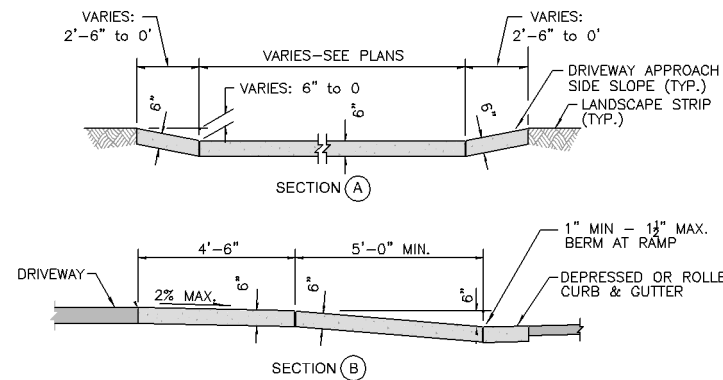
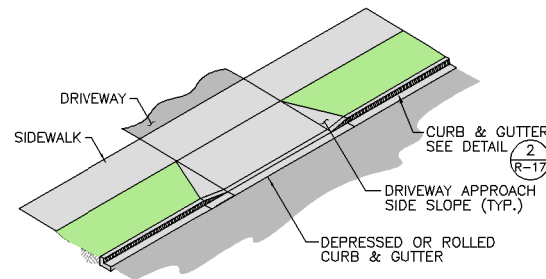
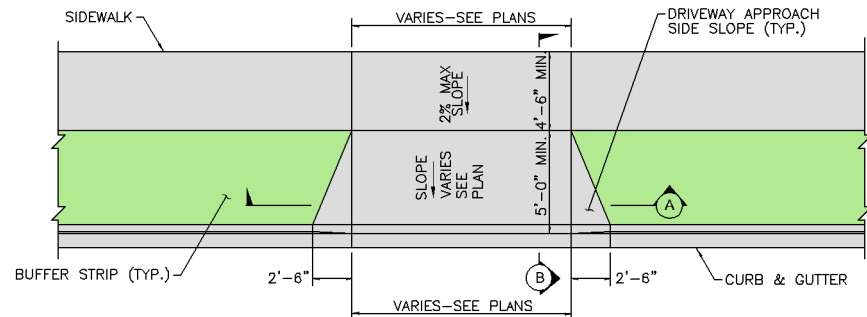
L14-006 R-18.DWG

SHEET R-18

BID SET



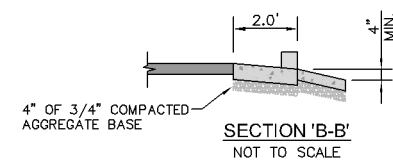
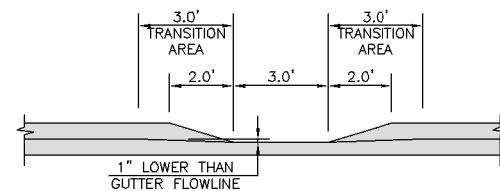
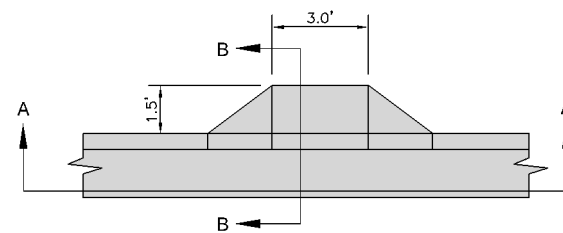
**DRIVEWAY APPROACH TYPE 1** 1  
NOT TO SCALE R-19



**DRIVEWAY APPROACH TYPE 3** 3  
NOT TO SCALE R-19

**DRIVEWAY NOTES:**

1. BASE MATERIAL SHALL BE 4" OF 3/4 INCH MINUS CRUSHED AGGREGATE BASE MATERIAL COMPACTED 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" LIFTS.
2. PLACEMENT OF DRAINAGE STRUCTURES JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF DRIVEWAY ENTRANCES IS PROHIBITED.
3. THIS RAMP SHALL BE USED WITH HIGH BACK AND ROLLED CURB.
4. ALL ALLEYS, COMMERCIAL DRIVEWAYS AND PRIVATE ROADWAYS ACCESSING MORE THAN THREE DWELLING UNITS WILL BE REQUIRED TO PLACE 3 - # 4 REBARS WITHIN CURB & GUTTER (CENTER AND 9" OFF CENTER) OF THE DRIVEWAY APPROACH.



**NOTES:**

1. SET APRON ENTRANCE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL TRANSITION FOR 3' ON EACH SIDE OF INLET APRON TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.
2. APRON TO SLOPE TO BOTTOM OF SWALE.

**INLET APRON DETAIL** 2  
NOT TO SCALE R-19



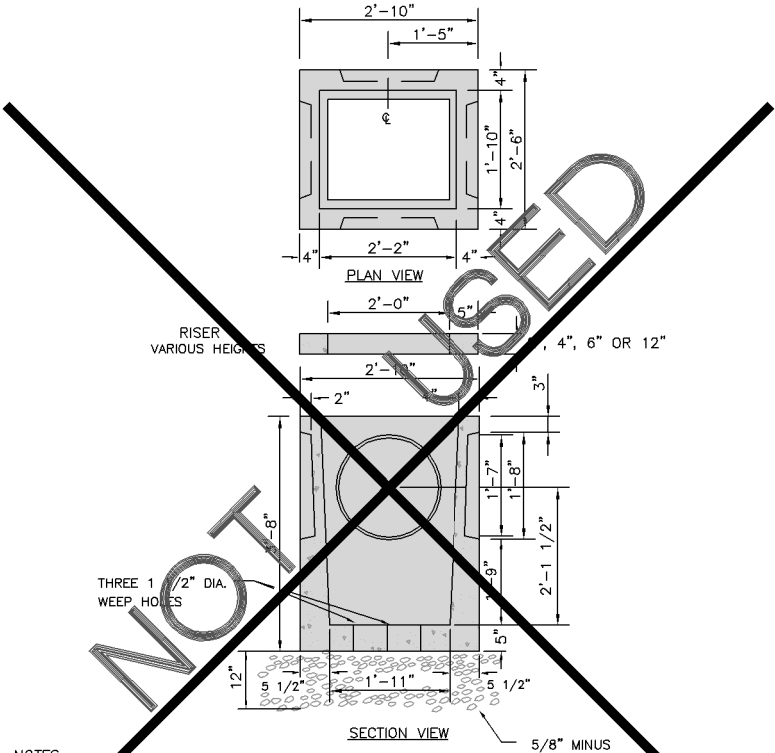
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QUALITY CHECK: DLW  
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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

DETAILS

**BID SET**





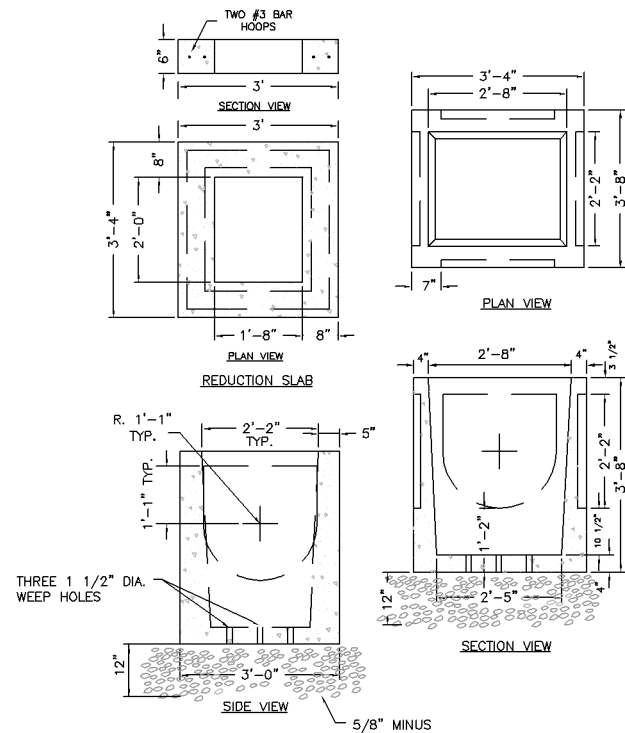
- NOTES:
1. TYPICAL CATCH BASIN [WILBERT PRECAST PRODUCT #1827] AND RISERS [WILBERT PRECAST PRODUCT #1830 (FOR 12") OR #1831-2,4,6 (FOR 2", 4" OR 6")] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
  2. FOR CATCH BASINS' GENERAL NOTES, SEE DETAIL 3

3  
R-20

## STORMWATER TYPE 1 CATCH BASIN

NOT TO SCALE

1  
R-20



### NOTES:

1. SHALLOW CATCH BASIN [WILBERT PRECAST PRODUCT #1845] AND REDUCTION SLAB [WILBERT PRECAST #1846] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
2. SEE CITY DWG 6-6 'GENERAL NOTES FOR CATCH BASINS'.

## STORMWATER CATCH BASIN FRAME AND GRATE AT CURB LOACTIONS

NOT TO SCALE

2  
R-20

\*\*\* ILLUSTRATED CATCH BASIN IS FOR USE AT HIGH BACK CURB & GUTTER LOCATIONS ONLY. SEE NOTES FOR CATCH BASIN PRODUCT TO BE USED AT MOUNTABLE CURB LOCATIONS.

### NOTES:

1. CATCH BASIN FRAME, GRATE & HOOD PRODUCT NO'S:
  - D&L SUPPLY PRODUCT I-4434
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)
3. FOR CATCH BASIN GENERAL NOTES, SEE DETAIL 3

3  
R-20

### NON-CURB LOCATIONS

#### NOTE:

FOR CATCH BASINS LOCATED AT NON-CURB LOCATIONS CATCH BASIN FRAME & GRATE TO BE D&L FOUNDRY PRODUCT I-4431 OR OTHER ENGINEER APPROVED EQUAL.

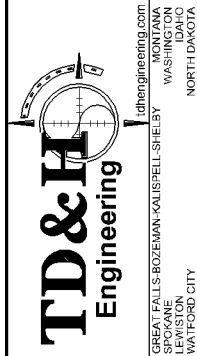
### GENERAL NOTES FOR CATCH BASINS

1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
2. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SUMP WITH THREE 1 1/2" DIA. WEEP HOLES IN BASE AND MINIMUM OF 12" OF COMPACTED 5/8" MINUS UNDER BASE; CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AS PER AASHTO T180
3. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
4. ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.
5. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
6. USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.
7. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
8. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITIONED FOR 3' ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.

## STORMWATER GENERAL CATCH BASIN NOTES

NOT TO SCALE

3  
R-20



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FIELDBOOK

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LEWISTON, IDAHO

DETAILS

L14-006 R-20.DWG

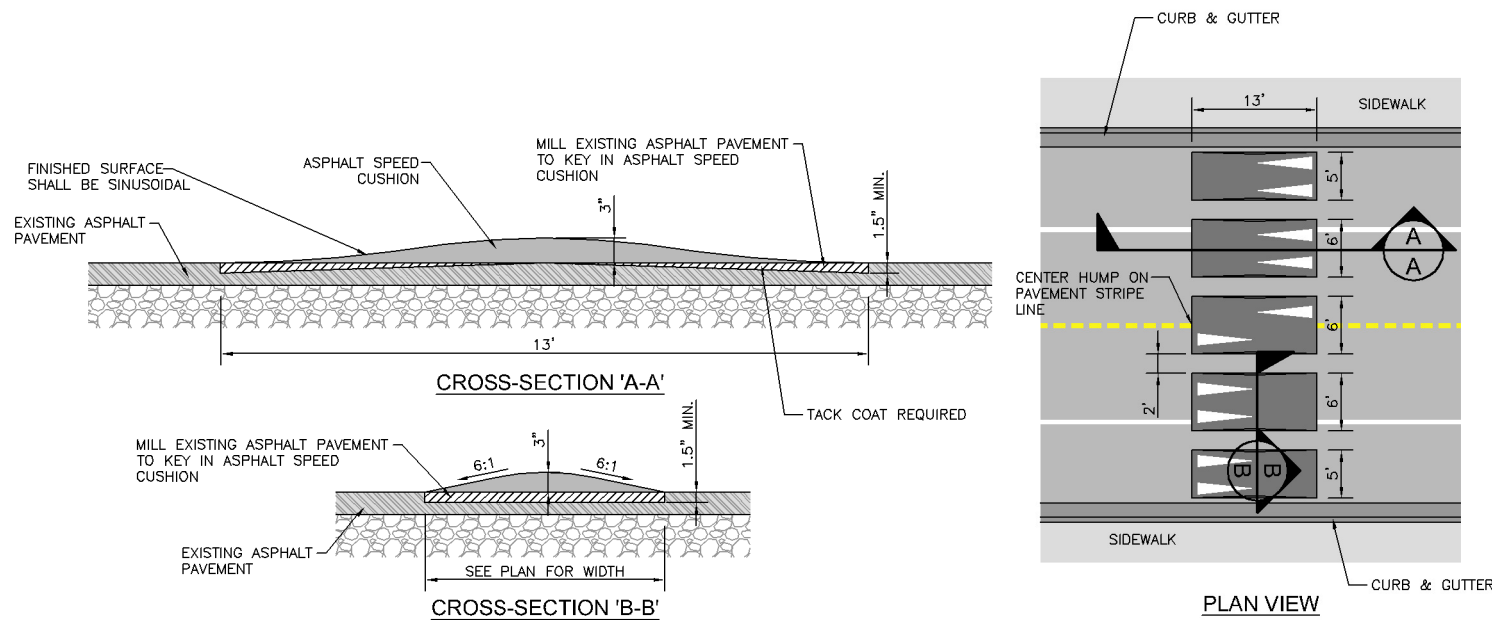
SHEET R-20

## STORMWATER TYPE 1A CATCH BASIN (SHALLOW CATCH BASIN)

NOT TO SCALE

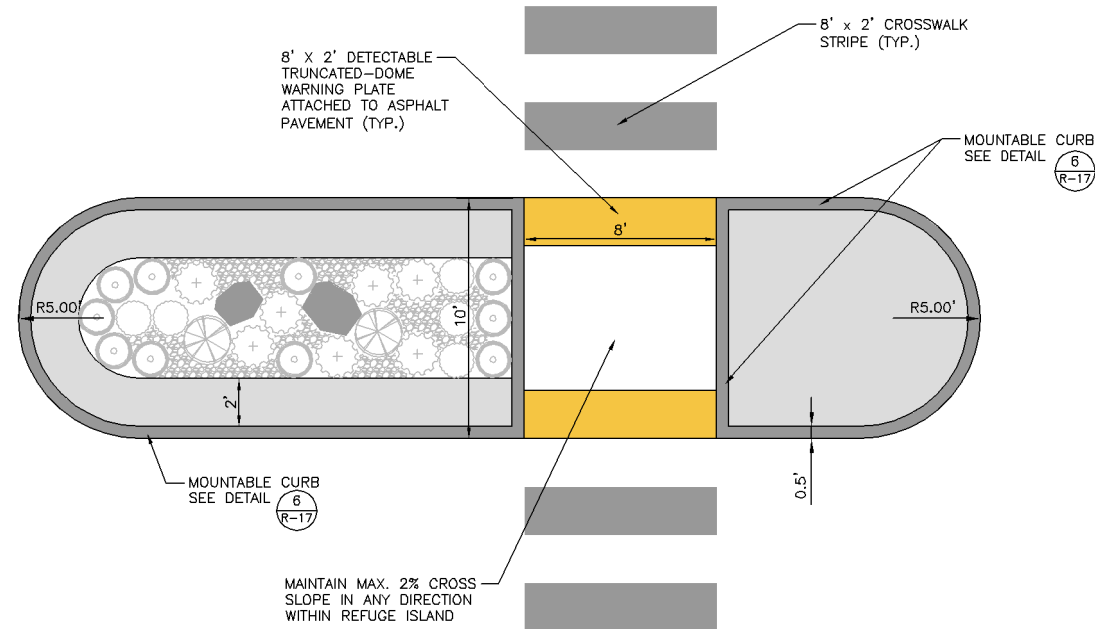
4  
R-20

BID SET

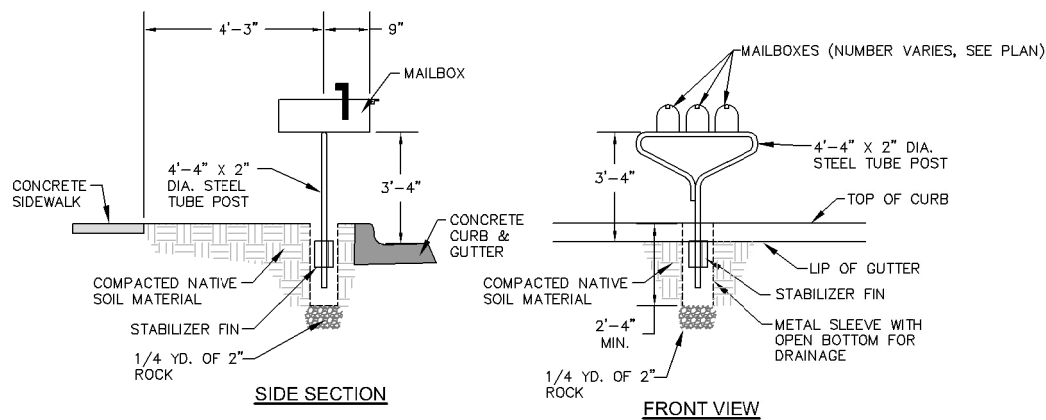
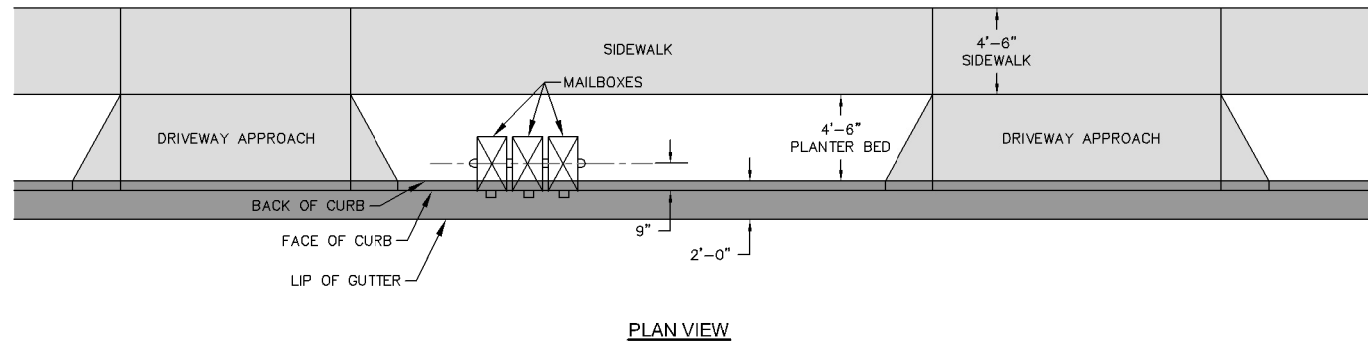


NOTE:  
 CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL TO CONSTRUCT SPEED CUSHIONS IN ACCORDANCE WITH SPECIFIED REQUIREMENTS

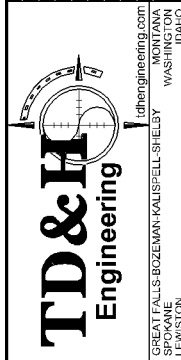
**SPEED CUSHION DETAIL**  
 NOT TO SCALE  
 1  
 R-21



**ADA REFUGE ISLAND DETAIL**  
 NOT TO SCALE  
 2  
 R-21



**CURBSIDE MAILBOX DETAIL**  
 NOT TO SCALE  
 3  
 R-21

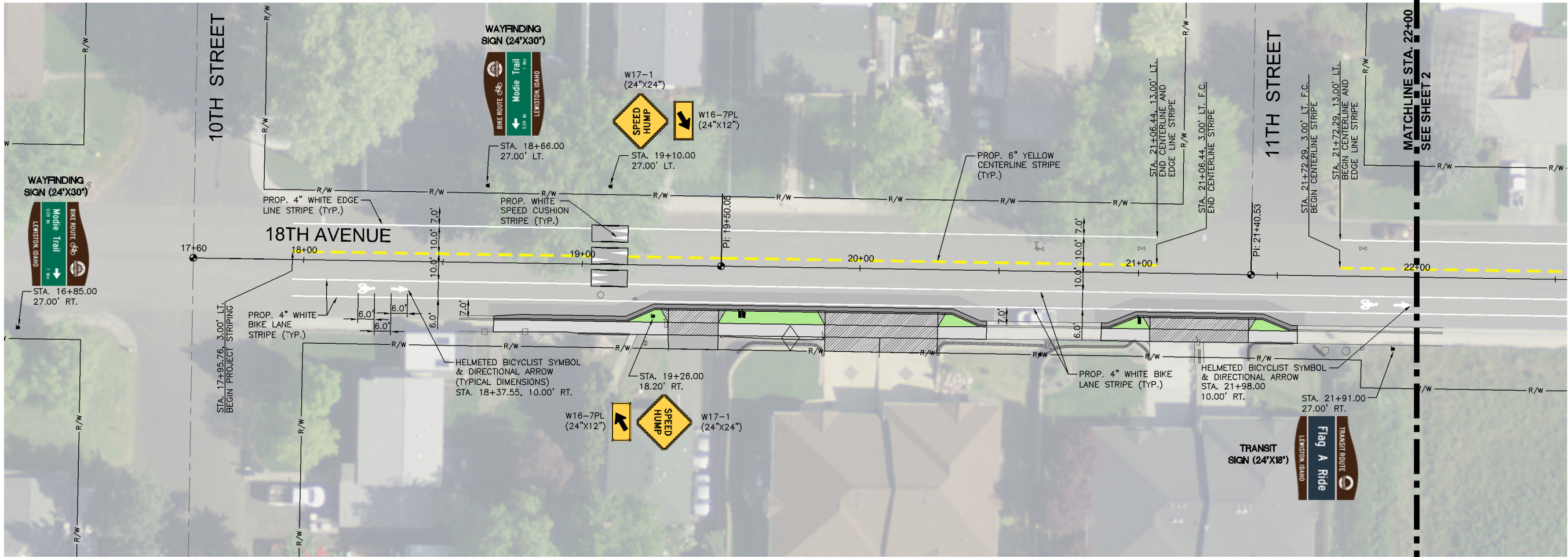


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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
 LEWISTON, IDAHO

DETAILS





PLAN



WAYFINDING SIGN AT 8TH STREET INTERSECTION



BID SET

PROFESSIONAL ENGINEER  
REGISTERED  
STATE OF IDAHO  
D L WITTMAAS

REV  
DATE  
REVISION

TD&H  
Engineering

GREAT FALLS, BOZEMAN, KALISPELL, SHELLEY, MONTANA  
SPOKANE, WASHINGTON  
PORTLAND, OREGON  
WATERLOO, IOWA  
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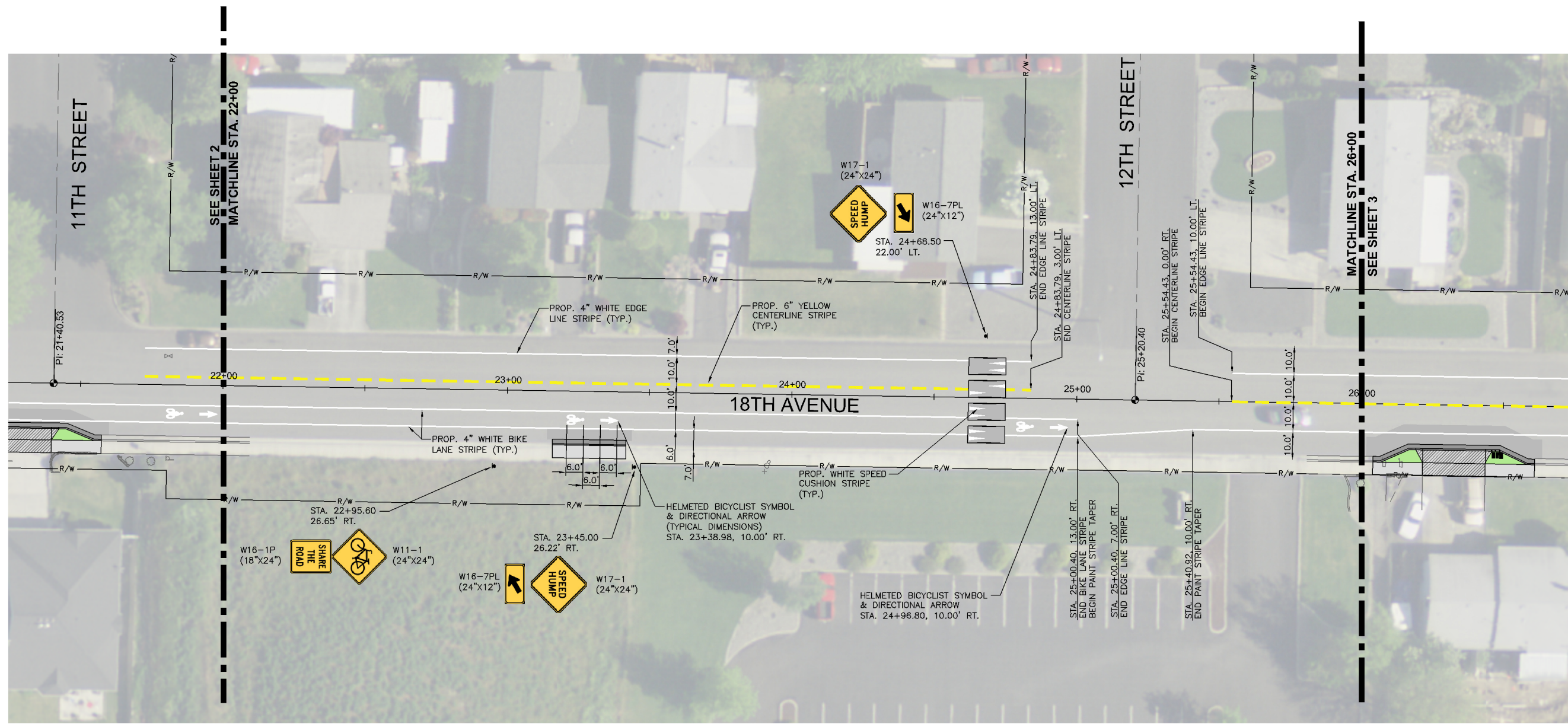
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

SIGNING & PAVEMENT MARKINGS

STA. 17+60 TO STA. 22+00

L14-006 T-1.DWG  
SHEET T-1





PLAN

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PROFESSIONAL ENGINEER  
STATE OF IDAHO  
0145  
D L WITTMAUS

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DATE  
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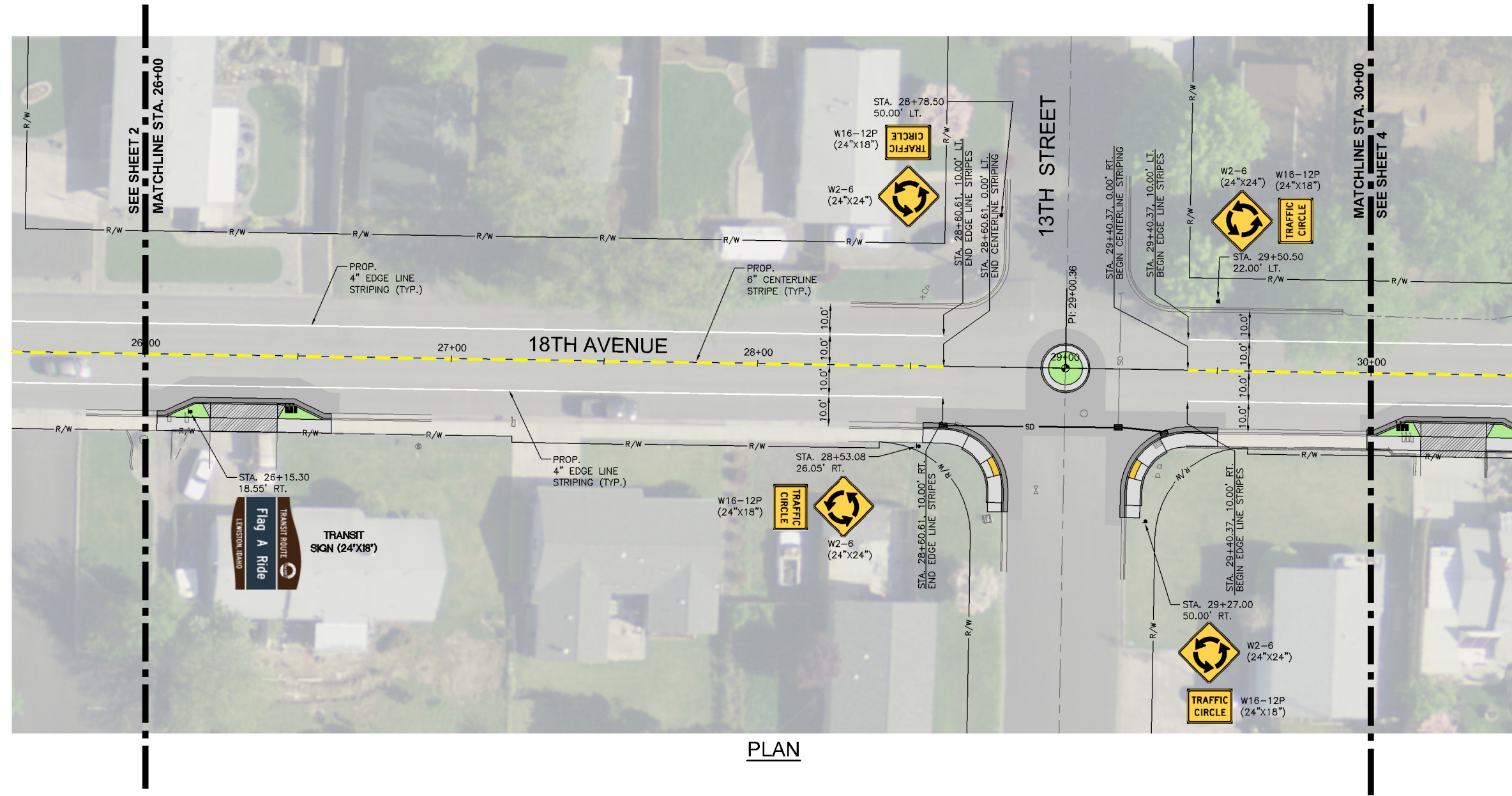
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SPOKANE, WASHINGTON  
PORTLAND, OREGON  
WATERLOO, IOWA

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LEWISTON, IDAHO  
SIGNING & PAVEMENT MARKINGS  
STA. 22+00 TO STA. 26+00

L14-006 T-2.DWG  
SHEET T-2





PLAN

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PROFESSIONAL ENGINEER  
STATE OF IDAHO  
00145  
D L WITTMAUS

REV

DATE

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LEWISTON, IDAHO

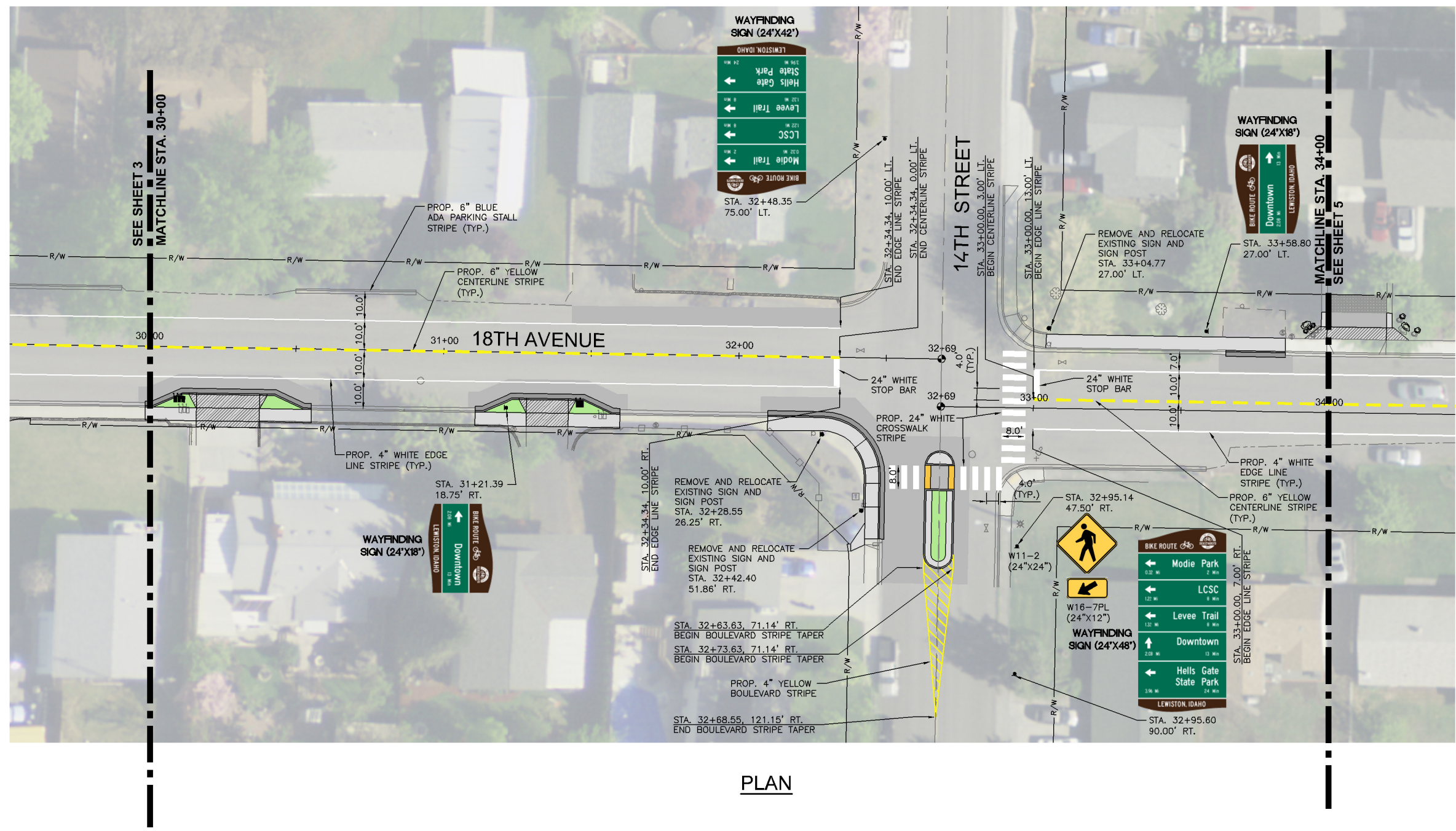
SIGNING & PAVEMENT MARKINGS

STA. 26+00 TO STA. 30+00

L14-006 T-3.DWG

SHEET T-3





PLAN

BID SET

PROFESSIONAL ENGINEER  
REGISTERED  
STATE OF IDAHO  
DAVID L. WITTMANN

REV  
DATE  
REVISION

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SPOKANE, WASHINGTON

PAIDSON, IDAHO

WATERBURY, NORTH DAKOTA

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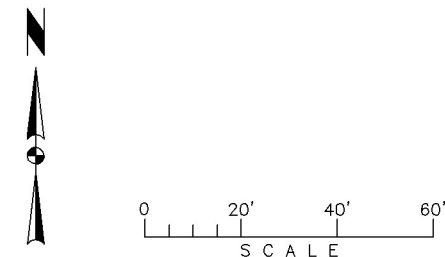
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

SIGNING & PAVEMENT MARKINGS  
STA. 30+00 TO STA. 34+00

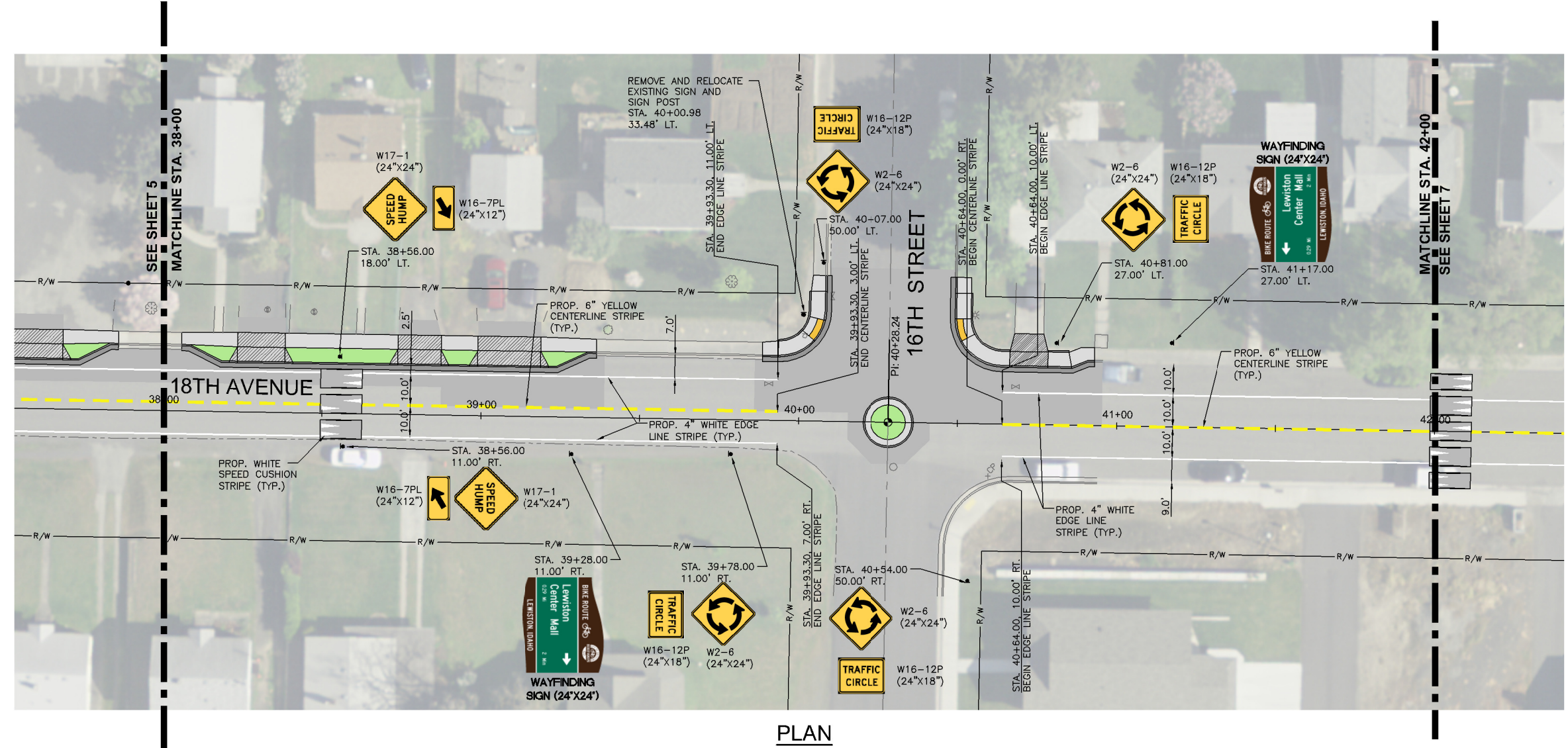
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QUALITY CHECK: DLW  
DATE: 6/26/14  
JOB NO. L14-006  
FIELDBOOK

L14-006 T-4.DWG  
SHEET T-4



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PLAN

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PROFESSIONAL ENGINEER  
REGISTERED  
STATE OF IDAHO  
D. L. WITTMAUS

REV

DATE

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Engineering

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SPOKANE, WASHINGTON  
LEWISTON, IDAHO  
WATERBURY, VERMONT

DRAWN BY: CCK  
DESIGNED BY: HRC  
QUALITY CHECK: DLW  
DATE: 6/26/14  
JOB NO. L14-006  
FIELDBOOK

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO

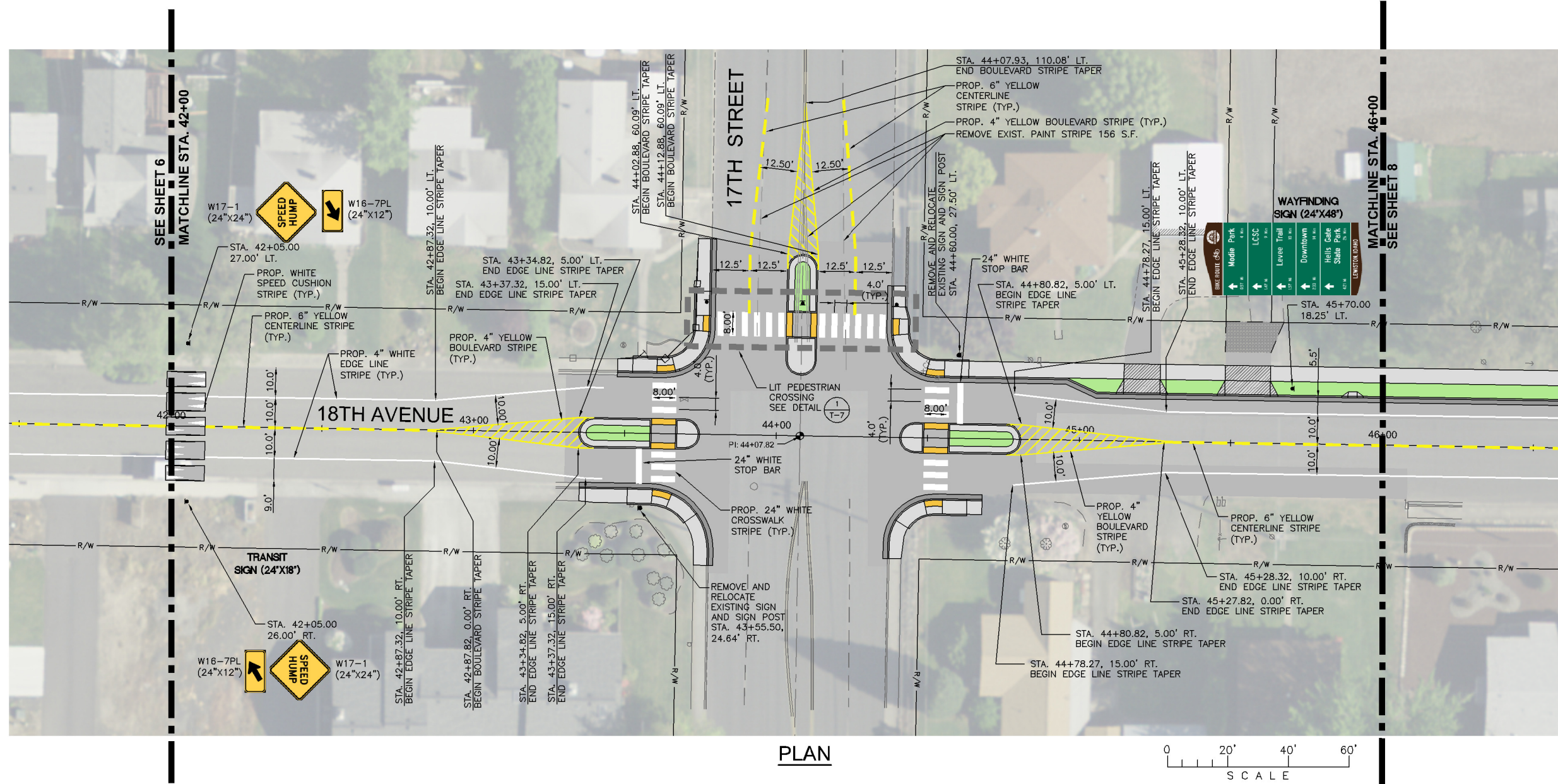
SIGNING & PAVEMENT MARKINGS

STA. 38+00 TO STA. 42+00

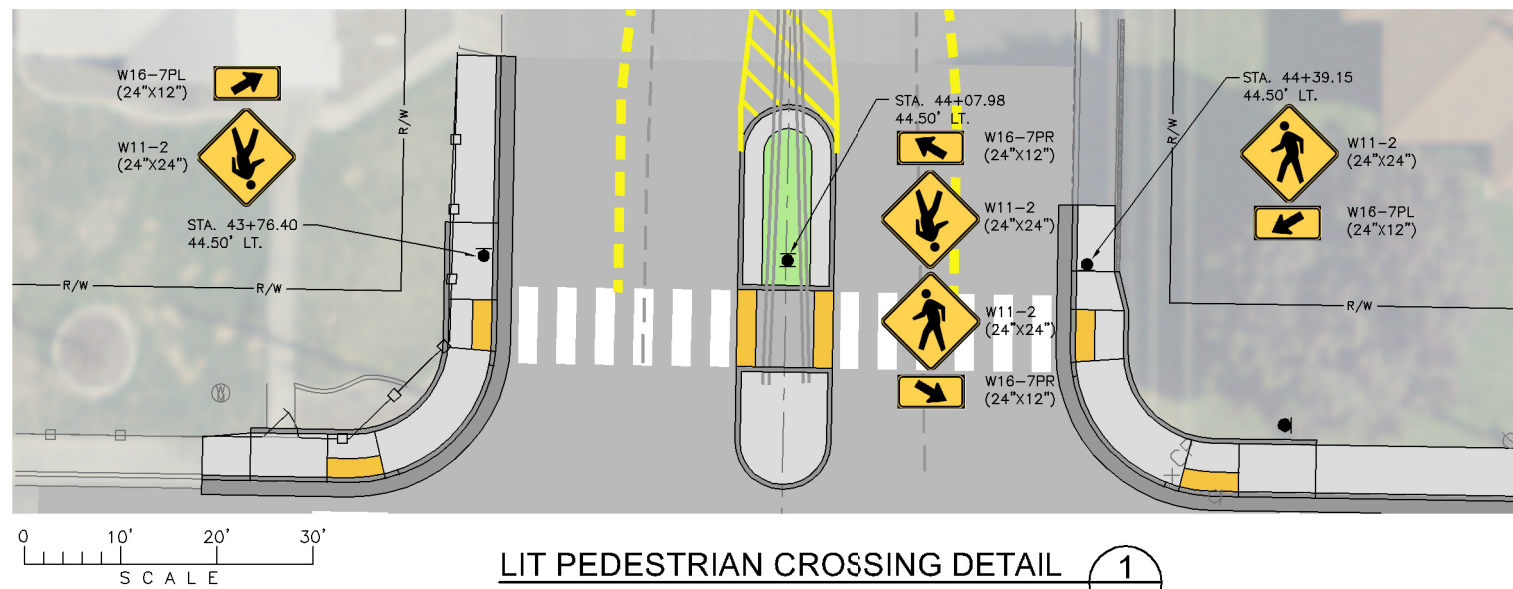
L14-006 T-6.DWG

SHEET T-6





PLAN



LIT PEDESTRIAN CROSSING DETAIL

1  
T-7

BID SET

**18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT**  
LEWISTON, IDAHO

**SIGNING & PAVEMENT MARKINGS**  
STA. 42+00 TO STA. 46+00

PROFESSIONAL ENGINEER  
0145  
DAVID L. WITTMANN  
STATE OF IDAHO

REV	DATE	REVISION

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DESIGNED BY: HRC  
QUALITY CHECK: DLW  
DATE: 6/26/14  
JOB NO. L14-006  
FIELDBOOK

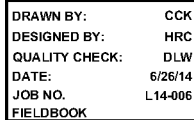
**TD&H Engineering**  
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SPOKANE, WASHINGTON, IDAHO, WYOMING, NORTH DAKOTA

L14-006 T-7.DWG  
SHEET T-7





## BID SET



**18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT**  
**LEWISTON, IDAHO**

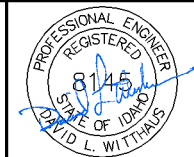
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**SIGNING & PAVEMENT MARKINGS**

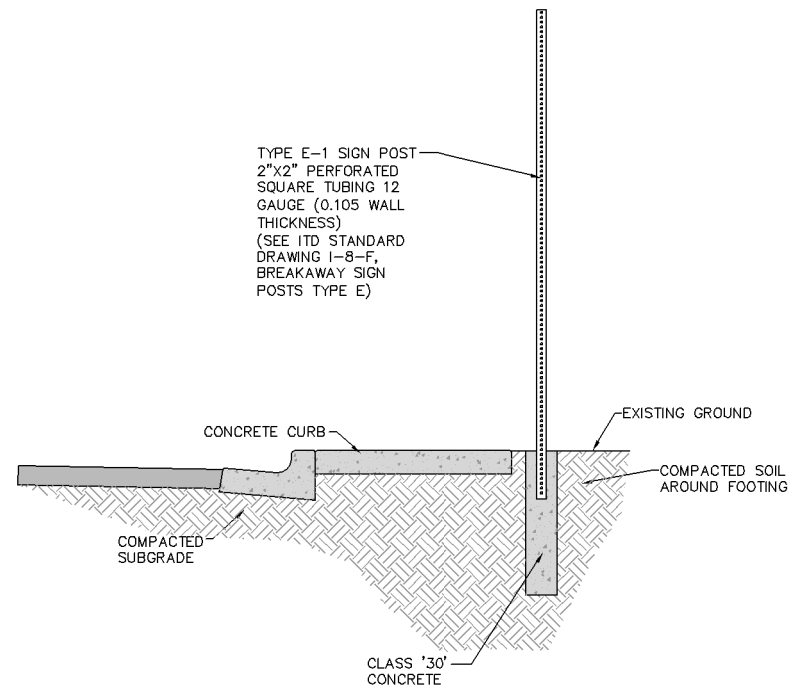
**STA. 46+00 TO STA. 48+00**

L14-006 T-8.DWG

**SHEET T-8**

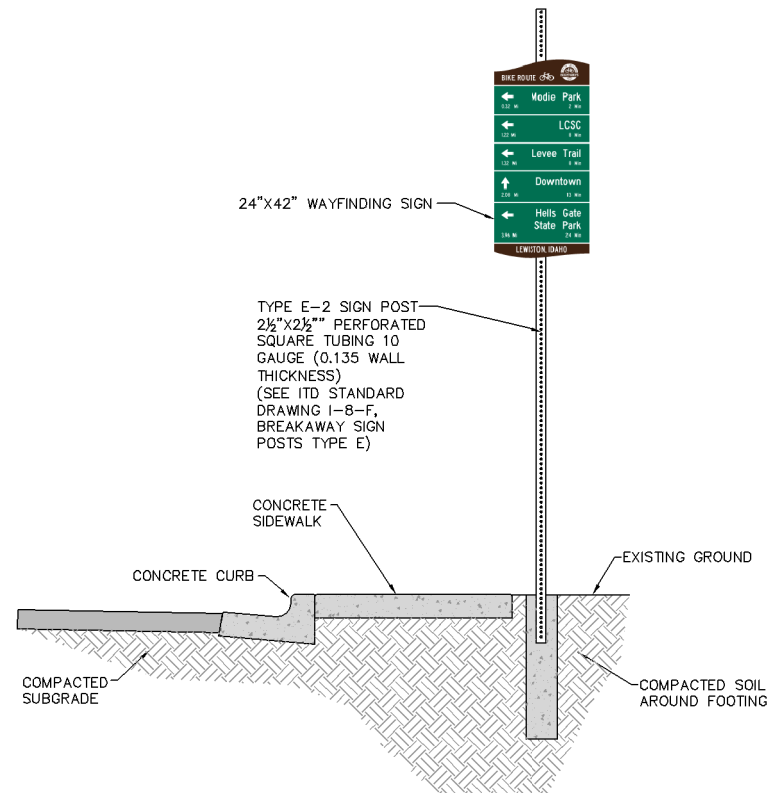
[illegible]

TYPE E-1 SIGN POST  
2"x2" PERFORATED  
SQUARE TUBING 12  
GAUGE (0.105 WALL  
THICKNESS)  
(SEE ITD STANDARD  
DRAWING I-8-F,  
BREAKAWAY SIGN  
POSTS TYPE E)

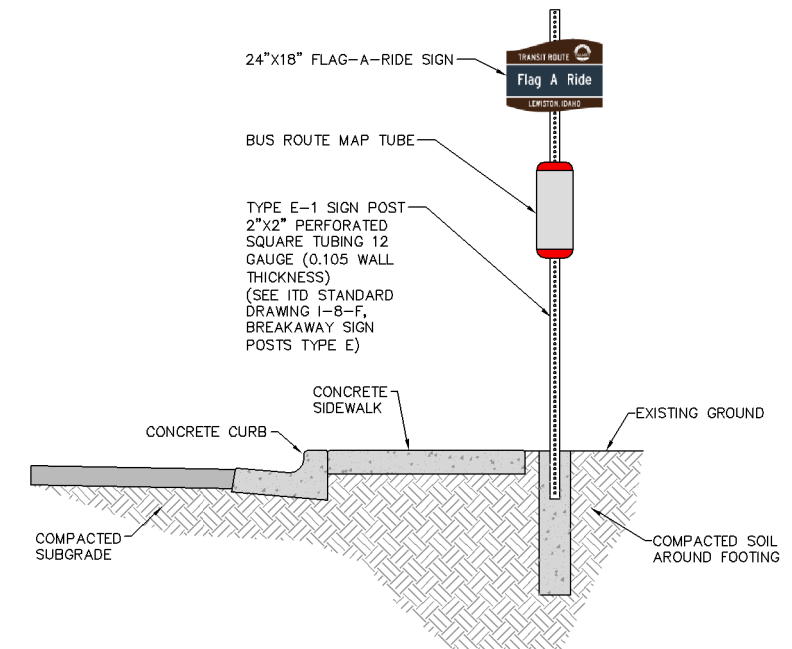


24"x42" WAYFINDING SIGN

TYPE E-2 SIGN POST—  
2½"x2½" PERFORATED  
SQUARE TUBING 10  
GAUGE (0.135 WALL  
THICKNESS)  
(SEE ITD STANDARD  
DRAWING I-8-F,  
BREAKAWAY SIGN  
POSTS TYPE E)

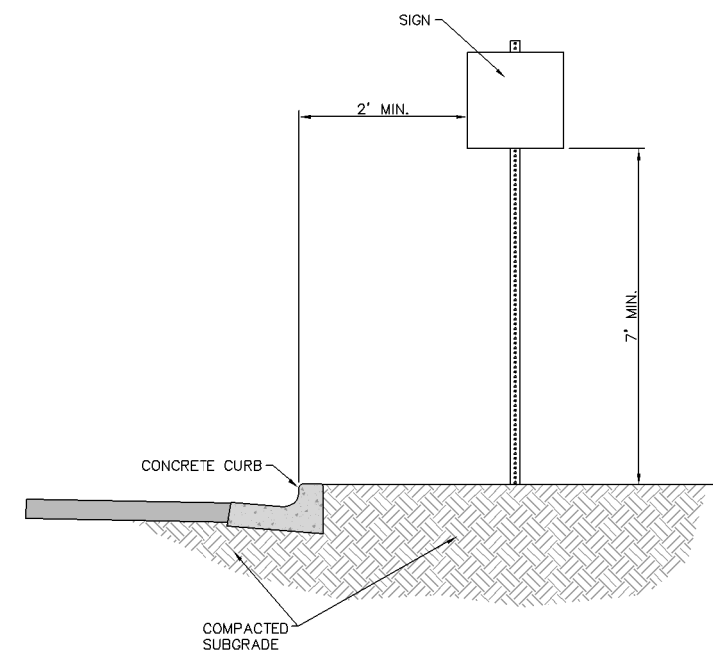


24"X18" FLAG-A-RIDE SIGN  
BUS ROUTE MAP TUBE —  
TYPE E-1 SIGN POST —  
2"X2" PERFORATED  
SQUARE TUBING 12  
GAUGE (0.105 WALL  
THICKNESS)  
(SEE ITD STANDARD  
DRAWING I-8-F,  
BREAKAWAY SIGN  
POSTS TYPE E)



NOT TO SCALE

1  
T-9



NOT TO SCALE

2  
T-9



## BID SET

[illegible]

SPokane	WASHINGTON
Lewisston	IDAHO
Watford City	NORTH DAKOTA

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DESIGNED BY:	HRC
QUALITY CHECK:	DLW
DATE:	6/26/14
JOB NO.	L14-006
ELDBOOK	

**18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT  
LEWISTON, IDAHO**

**SIGNING & PAVEMENT MARKINGS**

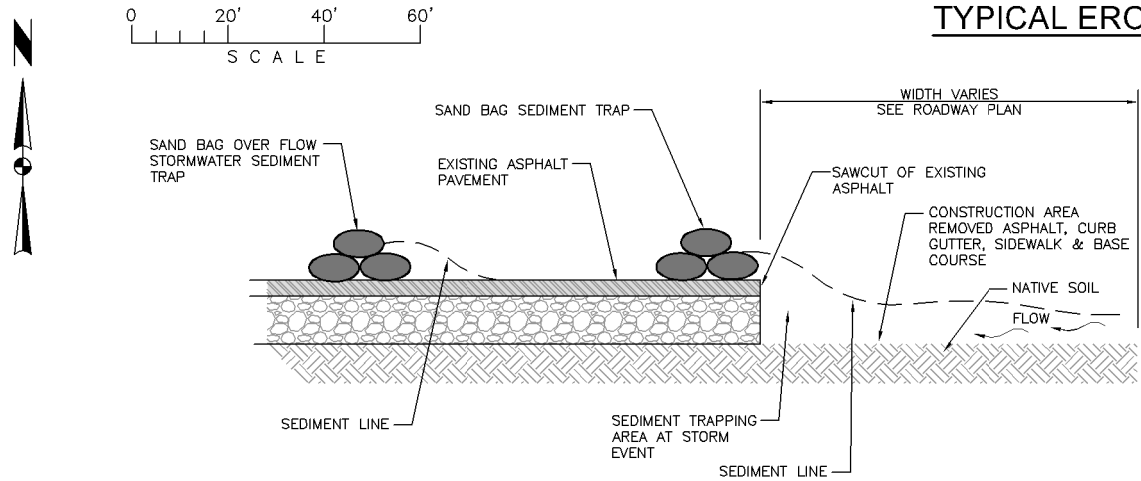
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HEET T-9

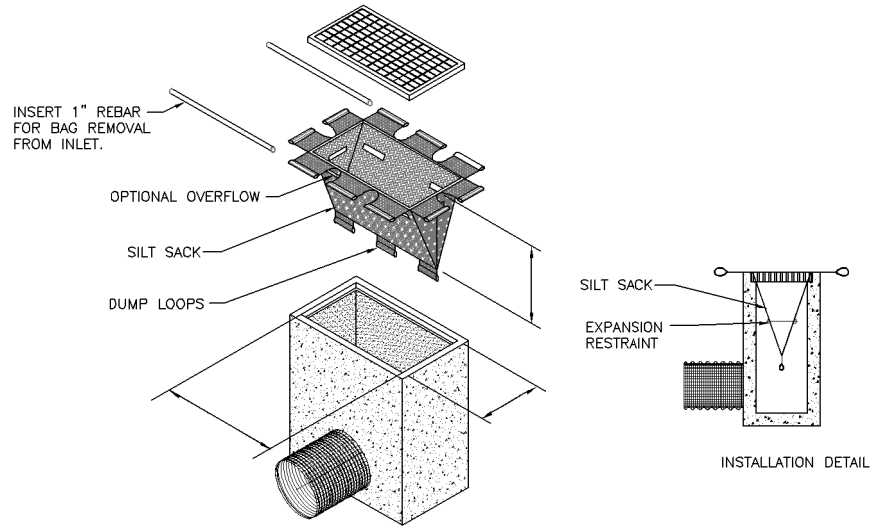




TYPICAL EROSION AND SEDIMENT CONTROL APPLICATION



SAND BAG SEDIMENT TRAP DETAIL 1 E-1  
NOT TO SCALE



SILT SACK INLET PROTECTION DETAIL 2 E-1  
NOT TO SCALE

LEGEND	
	SAND BAG
	STORMWATER FLOW DIRECTION
	FINISHED GRADE CONTOUR
	EXISTING GRADE CONTOUR
	SILT SACK INLET PROTECTION

- NOTES:
1. SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE INSPECTED BY QUALIFIED PERSONNEL. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY 7-CALENDAR DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCHES OR GREATER. AN INSPECTION REPORT SHALL BE COMPLETED FOR EACH INSPECTION. ALL INSPECTIONS AND THE INSPECTION REPORT SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
  2. SILT SACK INLET PROTECTION SHALL OCCUR AT ALL INLETS ALONG PROJECT CORRIDOR. SILT SACK INLET PROTECTION SHALL ALSO OCCUR ON ALL OF THE NORTH AND SOUTH BLOCKS ON THE DOWNHILL SIDE (10TH STREET TO 18TH STREET) INCLUDING AT LEAST A ONE BLOCK BUFFER DOWN STREAM.
  3. EXCAVATION PILES SHALL HAVE SAND BAGS AROUND PERIMETER OF PILE TO CONTAIN MATERIAL.
  4. SLURRY AND CUTTINGS IN ADDITION TO SEDIMENT SHALL BE COLLECTED AND DISPOSED OF IN A MANNER THAT DOES NOT ALLOW THE MATERIAL TO ENTER WATERS OF THE STATE.
  5. CATCH BASIN OFF PROJECT IN BETWEEN 8TH AND 9TH STREET ALONG 18TH AVENUE SHALL RECEIVE SILT SACK INLET PROTECTION.

POLLUTION CONTROL

EROSION & SEDIMENT CONTROL NOTES:

POLLUTION CONTROL MEASURES: POLLUTION CONTROL MEASURES WILL BE ESTABLISHED AND SET IN PLACE PRIOR TO BEGINNING PROJECT CONSTRUCTION AND WILL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION TIME PERIOD. THE PROPOSED POLLUTION CONTROL MEASURES ARE BASED ON IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY BEST MANAGEMENT PRACTICES (BMP'S) AND ARE LISTED AS FOLLOWS:

STAGING AREAS: THIS BMP INCLUDES MEASURES FOR COLLECTING RUNOFF FROM A STAGING AREA, MATERIALS STORAGE SITE, OR INDUSTRIAL ACTIVITY AREA OR FOR DIVERTING WATER FLOW AWAY FROM SUCH AREAS SO THAT POLLUTANTS DO NOT MIX WITH CLEAN STORMWATER RUNOFF. SEVERAL OPTIONS ARE AVAILABLE:

STORMWATER CONVEYANCES: THIS TERM INCLUDES MANY KINDS OF CHANNELS, GUTTERS, DRAINS, AND SEWERS.

SPILL PREVENTION AND CONTROL: THIS DESCRIBES METHODS OF MINIMIZING EXPOSURE OF POLLUTANTS TO STORM WATER RUNOFF BY ENCLOSING ANY DRIPS, OVERFLOWS, LEAKS, AND OTHER LIQUID MATERIAL RELEASES OR BY ISOLATING POLLUTANT SPILLS FROM STORMWATER RUNOFF. THREE POSSIBLE OPTIONS ARE DISCUSSED BELOW:

CONTAINMENT DIKING: TEMPORARY OR PERMANENT EARTH BERMS, CONCRETE BERMS, OR RETAINING WALLS DESIGNED TO HOLD SPILLS.

CURBING: LIKE CONTAINMENT DIKING, CURBING IS A BARRIER THAT SURROUNDS AN AREA OF CONCERN.

DRIP PANS: PANS USED TO CONTAIN VERY SMALL VOLUMES OF LEAKS, DRIPS, AND SPILLS.

GENERAL MAINTENANCE & GUIDELINES

1. EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF, AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREETS AND RIGHT-OF-WAY, AND TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE CONTRACTOR IS RESPONSIBLE FOR STREET CLEANUP AT THE END OF EACH SHIFT.

2. IT IS IMPORTANT TO IMPLEMENT A THOROUGH MAINTENANCE PROGRAM BEFORE, DURING, AND AFTER DEVELOPMENT IS COMPLETED. INSPECT ALL BMPs AND ADDITIONAL SAFEGUARDS TO DETERMINE THAT THEY ARE WORKING PROPERLY AND TO ENSURE THAT PROBLEMS ARE CORRECTED AS SOON AS THEY DEVELOP. THE MAINTENANCE SCHEDULE SHOULD BE BASED ON SITE CONDITIONS, DESIGN SAFEGUARDS, CONSTRUCTION SEQUENCE, AND ANTICIPATED WEATHER CONDITIONS.

3. INSPECTIONS SHOULD INCLUDE MATERIALS STORAGE AREAS, LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE, THE OPERATIONAL FUNCTIONALITY OF BMPs, AND EVIDENCE OF POLLUTANTS ENTERING THE DRAINAGE SYSTEM IN DISTURBED AREAS. AN INDIVIDUAL SHOULD BE ASSIGNED THE RESPONSIBILITY FOR ROUTINE CHECKS OF OPERATING PRACTICES. ALL TEMPORARY AND PERMANENT EROSION CONTROL BMPs SHOULD BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SPECIAL ATTENTION SHOULD BE PAID TO CONTROLS AFTER STORM EVENTS TO ENSURE THEY ARE FUNCTIONING PROPERLY.

4. AREAS TO HAVE PERMANENT SEEDING SHALL BE GRADED WITHIN A MINIMUM OF SIX INCHES OF TOPSOIL.

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EROSION & SEDIMENT CONTROL PLAN

REV	DATE	REVISION

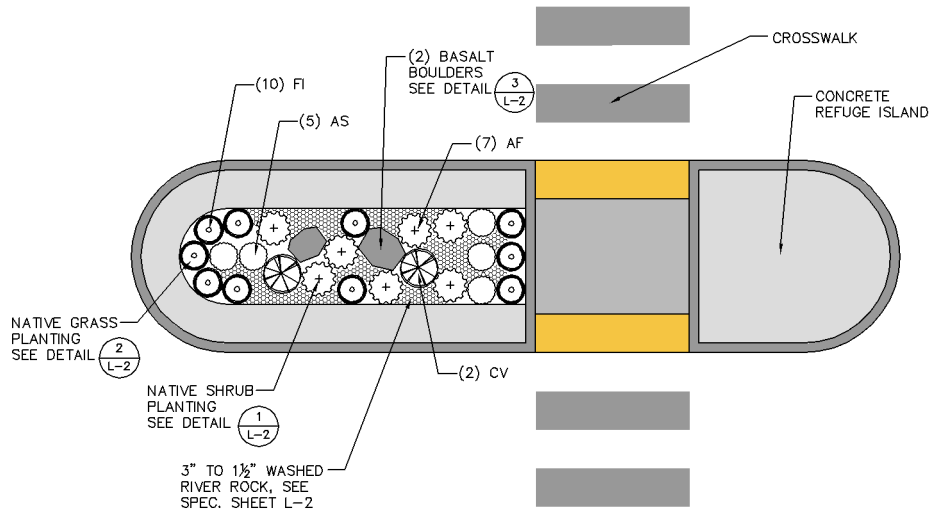
TD&H  
Engineering

GREAT FALLS BOZEMAN KALISPELL SHELBY  
SPOKANE MISSOULA BUTTE  
MONTANA WASHINGTON IDAHO  
NORTH DAKOTA

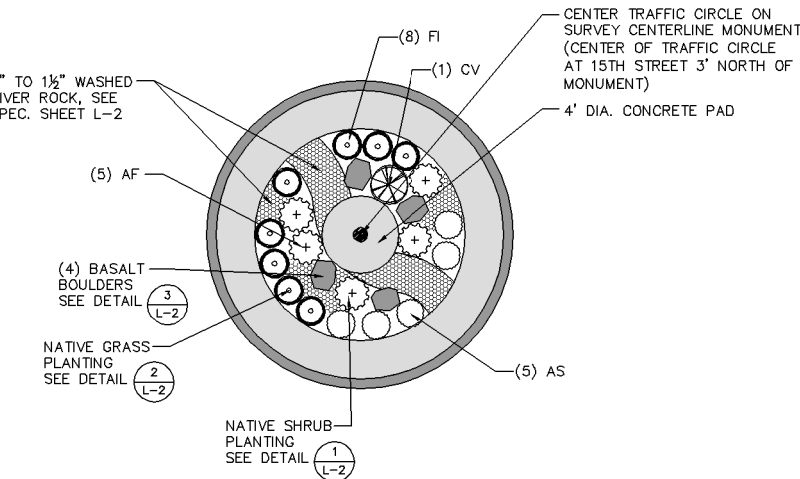
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DATE: 6/26/14  
JOB NO. L14-006  
FIELDBOOK

L14-006 E-1.DWG  
SHEET E-1

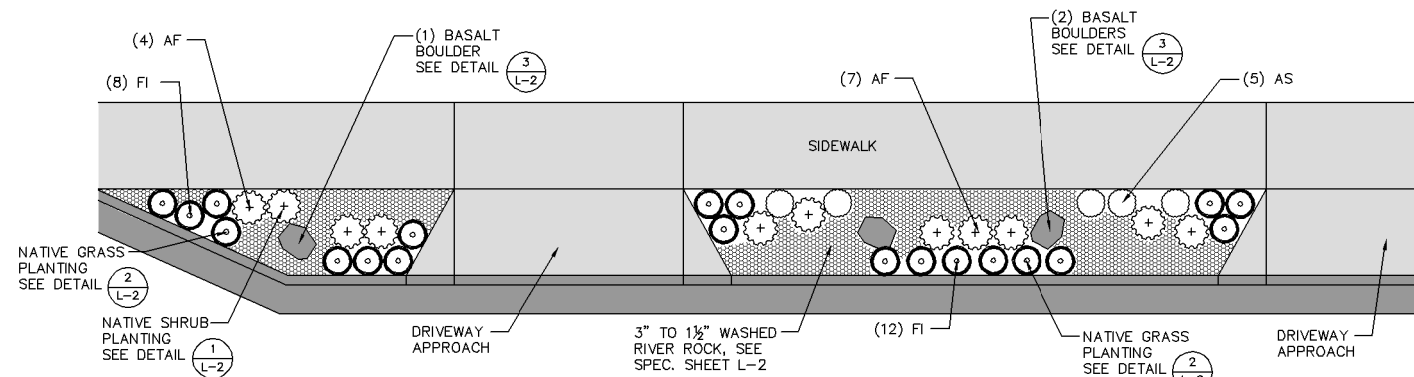




TYPICAL BOULEVARD NATIVE PLANTING DETAIL (1 L-1)



TYPICAL TRAFFIC CIRCLE NATIVE PLANTING DETAIL (2 L-1)

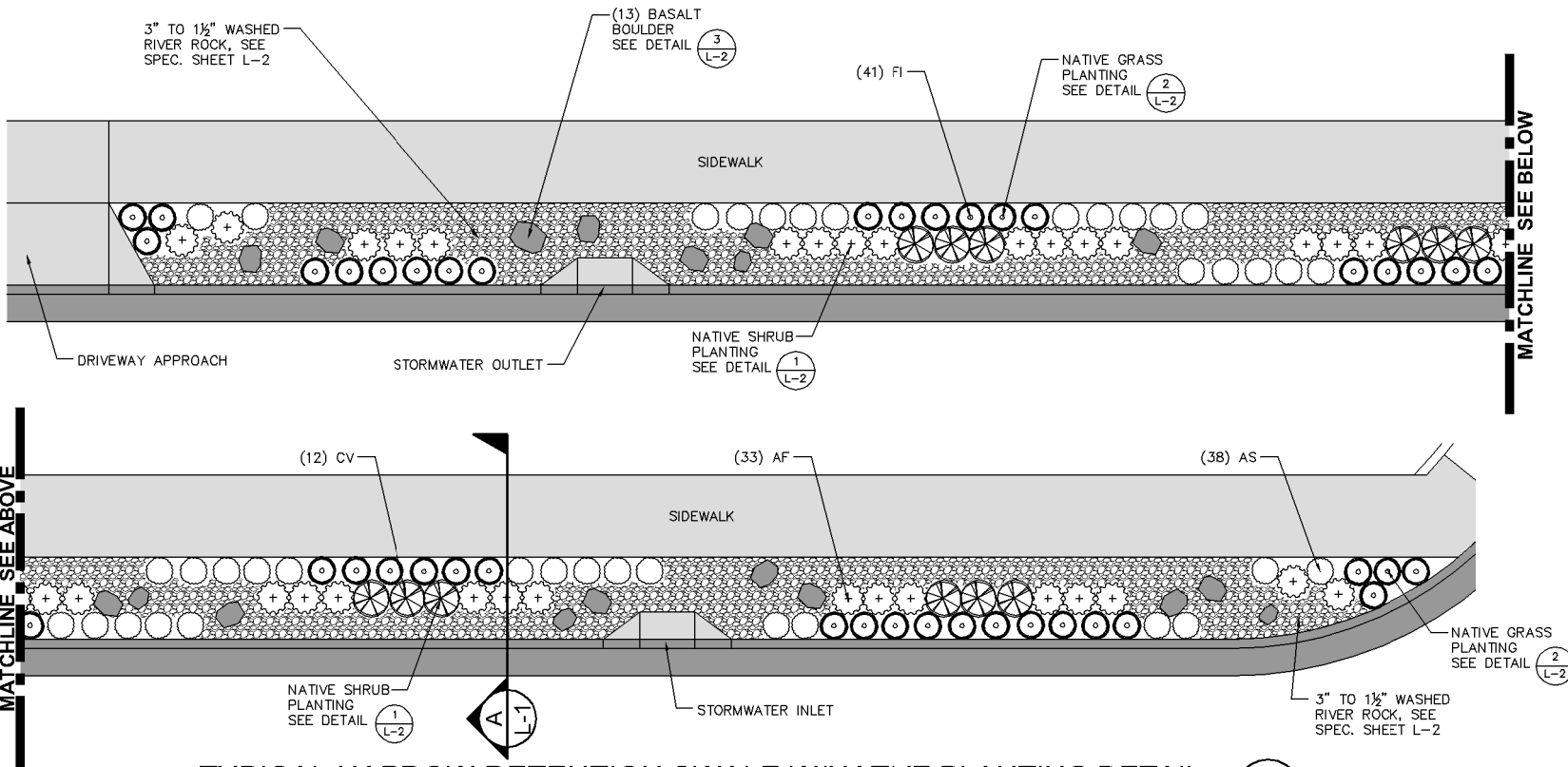


TYPICAL CURB BUMP OUT NATIVE PLANTING DETAIL (3 L-1)

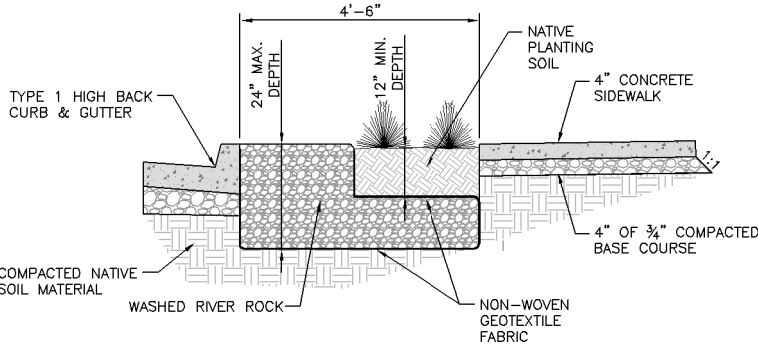
# PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	(DENSITY PER 100 S.F.) TRAFFIC CIRCLE AND BOULEVARD QUANTITY	(DENSITY PER 100 S.F.) CURB BUMP OUT QUANTITY	(DENSITY PER 100 S.F.) RETENTION SWALE QUANTITY	SIZE AND CONDITION	REMARKS
AS	AGROPYRON SPICATUM	BLUEBUNCH WHEATGRASS	5	5	6	10 CUBIC INCH PLUG	1.5' O.C. (1.5' H X 1.5' W)
AF	ARTEMISIA FRIGIDA	FRINGED SAGEBRUSH	10	7	8	1 GAL.	1.5' O.C. (1.5' H X 1.5' W)
CV	CHRYSOETHAMNUS VISCIDIFLORUS	LOW GREEN RABBITBRUSH	2	0	3	1 GAL.	2' O.C. (2' H X 2' W)
FI	FESTUCA IDAHOENSIS	IDAHO FESCUE	12	6	6	3.5" POT	1.5' O.C. (1.5' H X 1.5' W)

SYMBOL	NAME	(DENSITY PER 100 S.F.) TRAFFIC CIRCLE AND BOULEVARD QUANTITY	(DENSITY PER 100 S.F.) CURB BUMP OUT QUANTITY	(DENSITY PER 100 S.F.) RETENTION SWALE QUANTITY	SIZE AND CONDITION
	BASALT BOULDER	3	2	3	1' TO 2' DIA.
	WASHED RIVER ROCK (3" DEPTH)	0.33 C.Y.	0.46 C.Y.		3" TO 1 1/2"
	WASHED RIVER ROCK (12" TO 24" DEPTH)			5.60 C.Y.	3" TO 1 1/2"

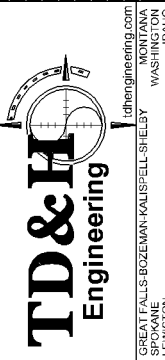


TYPICAL NARROW RETENTION SWALE W/NATIVE PLANTING DETAIL (4 L-1)



RETENTION SWALE SECTION (A L-1)

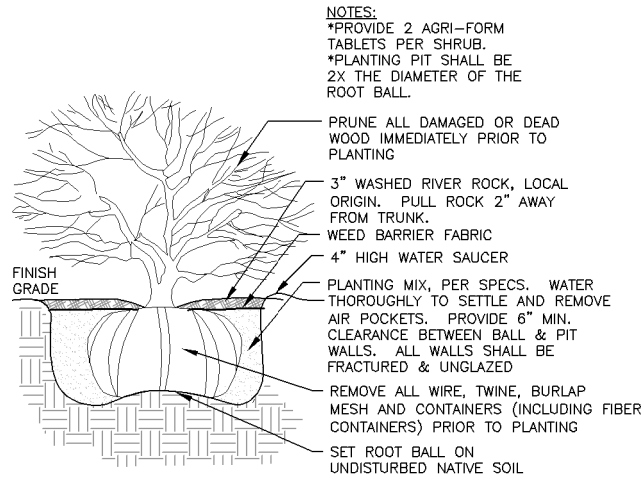
- PLANTING NOTES:
- ALL VOIDS IN PLANTER BEDS BETWEEN PLANT MATERIAL SHALL RECEIVE 3" DEPTH OF 3" TO 1 1/2" WASHED RIVER ROCK. REFER TO PLANTING SPECIFICATION, SHEET L-2 FOR PLACEMENT OF ROCK.



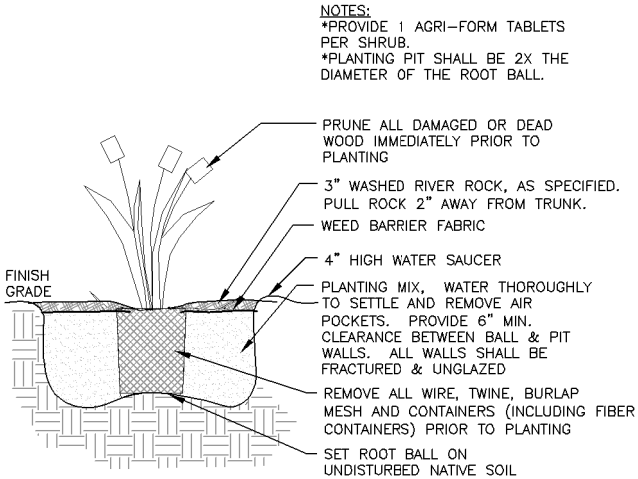
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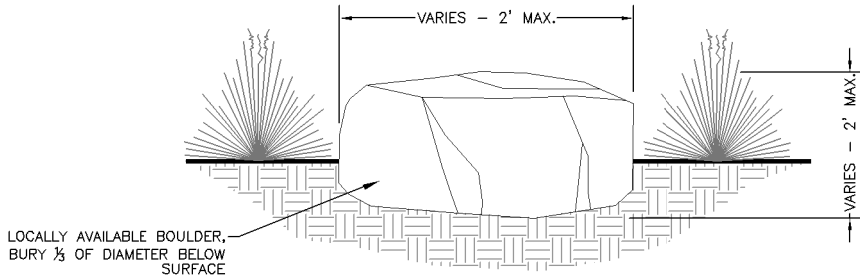
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NATIVE SHRUB PLANTING DETAIL 1 L-2



NATIVE GRASS PLANTING DETAIL 2 L-2



BOULDER PLACEMENT DETAIL 3 L-2

## PLANTING SPECIFICATIONS

### QUALITY ASSURANCE

- COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
- OWNER'S REPRESENTATIVE RESERVES RIGHT TO REVIEW AND REJECT MATERIALS AT GROWING SITE AND AS DELIVERED TO SITE.
- OBSERVATION AT GROWING SITE DOES NOT PRECLUDE RIGHT OF REJECTION AT JOB SITE. REMOVE REJECTED MATERIALS FROM SITE IMMEDIATELY.
- PERSONNEL: EMPLOY ONLY QUALIFIED PERSONNEL FAMILAR WITH REQUIRED WORK.
- CONTRACTOR'S RESPONSIBILITIES: LANDSCAPE CONTRACTOR TO COORDINATE ACTIVITIES WITH ALL OTHER TRADES. LANDSCAPE CONTRACTOR TO ALSO SECURE UTILITY LOCATES PRIOR TO COMMENCING WORK INVOLVING EXCAVATION OR DIGGING.

### PREPARATION AND PROTECTION

- BALLED AND BURLAPPED (B&B) PLANTS: DIG AND PREPARE SHIPMENT IN A MANNER THAT WILL NOT DAMAGE ROOTS, BRANCHES, SHAPE, AND FUTURE DEVELOPMENT.
- CONTAINER GROWN PLANTS: DELIVER PLANTS IN CONTAINER SUFFICIENTLY RIGID TO HOLD BALL SHAPE AND PROTECT ROOT MASS.
- USE ALL MEANS NECESSARY TO PROTECT AND MAINTAIN MATERIALS BEFORE, DURING AND AFTER INSTALLATION AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF ALL OTHER TRADES.
- DELIVER ALL PRODUCTS, AS SPECIFIED, TO SITE IN ORIGINAL, SEALED CONTAINERS BEARING MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

### DELIVERY

- DELIVER ONLY PLANT MATERIALS THAT CAN BE PLANTED IN ONE DAY UNLESS ADEQUATE STORAGE AND WATERING FACILITIES ARE AVAILABLE ON JOB SITE.
- PROTECT ROOT BALLS BY HEELING IN WITH MULCH IF NOT PLANTED WITHIN 24 HOURS OF DELIVERY.
- PROTECT DURING DELIVERY TO PREVENT DAMAGE TO ROOTS AT ALL TIMES. COVER ALL MATERIALS DURING TRANSPORT.
- REMOVE REJECTED PLANT MATERIAL IMMEDIATELY FROM SITE.
- DO NOT LIFT, MOVE, ADJUST, PLUMB, OR OTHERWISE MANIPULATE PLANTS BY TRUNK OR STEMS. AVOID DAMAGE OR STRESS BY PROPER HANDLING. PLANT MATERIAL DROPPED ON THE GROUND, RATHER THAN GENTLY PLACED INTO THE STORAGE AREA OR PLANTING BED, WILL BE REJECTED.

### STORAGE

- PLANT MATERIAL SHALL BE STORED IN A SECURE LOCATION, AND SHALL BE WATERED REGULARLY PRIOR TO PLANTING TO PREVENT DRYING OUT OF THE ROOTBALL.
- SEED, FERTILIZER, HERBICIDE, HYDROMULCH, AND TACKIFIER SHALL BE KEPT IN DRY STORAGE AWAY FROM CONTAMINANTS, AT A WEATHERPROOF LOCATION.

### SITE AND PLANT PROTECTION

- CARE MUST BE EXERCISED TO MINIMIZE DISTURBANCE OR COMPACTION OF AREAS ADJACENT TO ANY PROJECT. TREES SHALL BE PROTECTED.
- IN ORDER TO PREVENT EXCESSIVE SOIL COMPACTION AND DESTRUCTION OF SOIL STRUCTURE, NO SITE WORK WILL BE PERFORMED IN CASES WHERE EQUIPMENT OR TRAFFIC MUST PASS OVER WET SOILS OR IF WET SOILS MUST BE HANDLED OR MANIPULATED IN ORDER FOR THE WORK TO PROGRESS. WET SOIL IS DEFINED AS ANY SOIL WITHIN 90 PERCENT OF FIELD CAPACITY (SATURATION).
- DO NOT MOVE EQUIPMENT OVER EXISTING LANDSCAPE OR NEWLY PLACED STRUCTURES WITHOUT APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- PROVIDE BOARD ROADING AS REQUIRED TO PROTECT PAVING. PROTECT OTHER IMPROVEMENTS FROM DAMAGE, WITH PROTECTION BOARDS, RAMPS AND PROTECTIVE SHEETING.

### UTILITIES

- UTILITY LOCATES ARE REQUIRED PRIOR TO EXCAVATION OR ANY CONSTRUCTION ACTIVITIES.
- COORDINATE WORK WITH OWNER, INCLUDING IRRIGATION SPECIALIST, IN ORDER TO PREVENT DAMAGE TO UNDERGROUND SPRINKLER SYSTEM.

### WARRANTY

- WARRANTY PLANT MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE. REPLACE DEAD OR DYING MATERIALS NOT IN VIGOROUS, THRIVING CONDITION AS SOON AS WEATHER PERMITS AND ON NOTIFICATION BY OWNER'S REPRESENTATIVE. REPLACE PLANTS, WHICH IN OPINION OF OWNER'S REPRESENTATIVE HAVE PARTIALLY DIED, THEREBY COMPROMISING SHAPE, SIZE OR SYMMETRY.
- REPLACE PLANTS WITH SAME KIND AND SIZE AS ORIGINALLY PLANTED, AT NO COST TO OWNER. PROVIDE 90-DAY WARRANTY ON REPLACEMENT PLANTS.
- WARRANTY EXCLUDES REPLACEMENT OF PLANTS AFTER FINAL ACCEPTANCE BECAUSE OF INJURY BY STORM, DROUGHT, DROWNING, HAIL, FREEZE, INSECTS, OR DISEASE. MATERIALS DAMAGED BY "ACTS OF GOD" PRIOR TO FINAL ACCEPTANCE ARE RESPONSIBILITY OF CONTRACTOR.

### PLANTING SOILS

- PLANTING SOIL FOR PLANT STOCK PITS: EXISTING, NATIVE SURFACE TOPSOIL FORMED UNDER NATURAL CONDITIONS WITH THE DUFF LAYER RETAINED DURING EXCAVATION PROCESS AND STOCKPILED ON-SITE. VERIFY SUITABILITY OF NATIVE SURFACE TOPSOIL TO PRODUCE VIABLE PLANTING SOIL. CLEAN SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
  - SUPPLEMENT WITH IMPORTED TOPSOIL PLANTING SOIL WHEN QUANTITIES ARE INSUFFICIENT.
  - MIX EXISTING, NATIVE SURFACE TOPSOIL WITH THE FOLLOWING SOIL AMENDMENTS IN THE FOLLOWING QUANTITIES TO PRODUCE PLANTING SOIL:
    - RATIO OF LOOSE COMPOST TO TOPSOIL BY VOLUME: 1:3.
    - RATIO OF SAND TO TOPSOIL BY VOLUME: 1:3.

### PLANTING FERTILIZERS

- PLANTING TABLETS: TIGHTLY COMPRESSED CHIP TYPE, LONG-LASTING, SLOW-RELEASE, COMMERCIAL-GRADE PLANTING FERTILIZER IN TABLET FORM. TABLETS SHALL BREAK DOWN WITH SOIL BACTERIA, CONVERTING NUTRIENTS INTO A FORM THAT CAN BE ABSORBED BY PLANT ROOTS.
  - SIZE: 21-GRAM TABLETS.
  - NUTRIENT COMPOSITION: 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 5 PERCENT POTASSIUM, BY WEIGHT PLUS MICRONUTRIENTS.

### FERTILIZERS

FERTILIZER TO BE SPREAD ON AREAS TO BE SEEDED SHALL BE COMMERCIALY PREPARED PRODUCT PRE-APPROVED BY THE OWNER. FERTILIZER SHALL CONTAIN THE FOLLOWING PERCENTAGES AND SHALL BE APPLIED AT 200 LBS/ACRE BY WEIGHT UNLESS OTHERWISE APPROVED:

11% NITROGEN	55% PHOSPHORUS	12% POTASH
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### WASHED RIVER ROCK

WASHED RIVER ROCK: FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF SHRUBS.

### LANDSCAPE FABRIC

HEAVY, PROFESSIONAL GRADE, SPUN-BONDED NYLON LANDSCAPE FABRIC WITH SIX-INCH ANCHORING PINS. WOVEN FABRIC IS UNACCEPTABLE.

### PESTICIDES

- GENERAL: PESTICIDE REGISTERED AND APPROVED BY EPA, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND OF TYPE RECOMMENDED BY MANUFACTURER FOR EACH SPECIFIC PROBLEM AND AS REQUIRED FOR PROJECT CONDITIONS AND APPLICATION. DO NOT USE RESTRICTED PESTICIDES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.
- PRE-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING THE GERMINATION OR GROWTH OF WEEDS WITHIN PLANTED AREAS AT THE SOIL LEVEL DIRECTLY BELOW THE MULCH LAYER.
- POST-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING WEED GROWTH THAT HAS ALREADY GERMINATED.

### MAINTENANCE

- WATER WILL NOT BE AVAILABLE ON SITE. PROVIDE NECESSARY WATER SUPPLY, HOSES AND OTHER WATERING EQUIPMENT REQUIRED TO COMPLETE WORK.
- MAINTAIN PLANTINGS BY WATERING, CULTIVATING, WEEDING, SPRAYING, CLEANING, AND REPLACING AS NECESSARY TO KEEP LANDSCAPE IN A VIGOROUS, HEALTHY CONDITION.
- COORDINATE WATERING SCHEDULES WITH IRRIGATION CONTRACTOR DURING INSTALLATION AND UNTIL FINAL ACCEPTANCE.
- WEEDING: REMOVE WEEDS AND FOREIGN GRASSES IN PLANTED AREAS AT LEAST ONCE PER WEEK. HERBICIDES MAY BE USED ONLY WHEN APPROVED BY THE OWNER'S REPRESENTATIVE.

### PLANTS

- GENERAL: FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT SCHEDULE OR PLANT LEGEND SHOWN ON DRAWINGS AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK, DENSELY FOLIATED WHEN IN LEAF AND FREE OF DISEASE, PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.
  - COLLECTED STOCK: DO NOT USE PLANTS HARVESTED FROM THE WILD, FROM NATIVE STANDS, FROM AN ESTABLISHED LANDSCAPE PLANTING, OR NOT GROWN IN A NURSERY UNLESS OTHERWISE INDICATED.
  - PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH ANSI Z60.1 FOR TYPES AND FORM OF PLANTS REQUIRED. PLANTS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO OWNER'S REPRESENTATIVE, WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.
  - ROOT-BALL DEPTH: FURNISH SHRUBS WITH ROOT BALLS MEASURED FROM TOP OF ROOT BALL, WHICH SHALL BEGIN AT ROOT FLARE ACCORDING TO ANSI Z60.1. ROOT FLARE SHALL BE VISIBLE BEFORE PLANTING.

### NATIVE TOPSOIL

REFER TO THE PROJECT MANUAL FOR REQUIREMENTS.

### IMPORTED TOPSOIL

IN THE EVENT SUFFICIENT QUANTITIES OF NATIVE TOPSOIL CANNOT BE SALVAGED FROM THE SITE, THE CONTRACTOR SHALL PROVIDE IMPORTED TOPSOIL TO SUPPLEMENT THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE TOPSOIL THAT MEETS OR EXCEEDS THE QUALITY OF THE NATIVE TOPSOIL MATERIAL AVAILABLE ON SITE. CONTRACTOR SHALL PROVIDE SOURCE AND ANALYSIS INFORMATION TO THE OWNER'S REPRESENTATIVE, FOR HIS APPROVAL, PRIOR TO DELIVERY. THE CONTRACTOR SHALL INCORPORATE INTO THE TOPSOIL, AMENDMENTS NECESSARY TO PROVIDE TOPSOIL FERTILITY AND QUALITY, EQUAL TO OR EXCEEDING THE CHARACTERISTICS OF THE NATIVE TOPSOIL.

### TOP SOIL DEPTH:

- PLANTING BED AREAS: PROVIDE A 12 INCH DEPTH OF TOPSOIL IN ALL PLANTING BED AREAS.
- COMPACT ALL AREAS TO RECEIVE SOD OR PLANTINGS TO 85 PERCENT PROCTOR DENSITY. DO NOT OVER COMPACT.

### COMPOST:

- WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 6 TO 8.5; MOISTURE CONTENT 30 TO 60 PERCENT BY WEIGHT; 98 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF MAXIMUM OF 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS; AND AS FOLLOWS:
  - ORGANIC MATTER CONTENT: 30-65 PERCENT OF DRY WEIGHT.
  - FEEDSTOCK: AGRICULTURAL, FOOD, OR INDUSTRIAL RESIDUALS; BIOSOLIDS; YARD TRIMMINGS; OR SOURCE-SEPARATED OR COMPOSTABLE MIXED SOLID WASTE.

### BED PREPARATION

- SCARIFY ALL SUB-GRADE OF BED AREAS TO SIX INCHES, ALL AREAS.
- CONTRACTOR SHALL SPREAD TOPSOIL EVENLY THROUGHOUT BED AFTER THOROUGHLY MIXING SOIL, AMENDMENTS AND FERTILIZER TOGETHER ON SITE.
- REMOVE ANY DEBRIS AND ROCKS LARGER THAN ONE INCH.

### SHRUB AND GROUND COVER PLANTING

- PROVIDE ONE-FOOT DEEP TOP SOIL IN ALL SHRUB BEDS.
- PLACE PLANTS IN A POSITION ON BED AREAS BEFORE REMOVAL FROM CONTAINERS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE OF PLANT LAYOUT IN THE FIELD. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO SHIFT LOCATIONS OF PLANTS PRIOR TO PLANTING.
- REMOVE BURLAP FROM UPPER ONE-HALF OF ROOT BALL ON ALL B&B PLANTS.
- PLANT ALL PLANTS AS LOCATED, SETTING PLANTS WITH TOPS OF BALLS EVEN WITH THE TOPS OF BED GRADES. BACKFILL WITH NATIVE SOIL AND COMPACT SOIL CAREFULLY AROUND EACH PLANT BALL. WATER THOROUGHLY TO ELIMINATE AIR POCKETS. CAREFULLY PRUNE PLANTS TO REMOVE DEAD OR BROKEN BRANCHES AND HAND-RAKE BED AREAS TO SMOOTH EVEN SURFACES.

### ROOT BALLS

- ROOT BALLS SHALL BE PROPERLY LOCATED IN RELATIONSHIP TO ADJACENT SOIL AS REQUIRED BY REFERENCED STANDARDS.
- BALLS SET TOO DEEP OR TOO SHALLOW SHALL BE CAREFULLY REMOVED AND REPLANTED AS REQUIRED BY THE OWNER'S REPRESENTATIVE.

### LANDSCAPE FABRIC

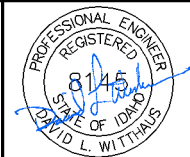
AFTER PLANTING HAS BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE, INSTALL LANDSCAPE FABRIC ACROSS PLANTING BEDS. SHEETS OF FABRIC SHOULD HAVE A MINIMUM SIX-INCH OVERLAP AT THE BED MARGINS. FABRIC SHOULD BE INSTALLED UNDER THE BOTTOM OF CONCRETE CURBING. FABRIC LAPPING OUTSIDE THE CONCRETE CURBING SHOULD BE TRIMMED TO BELOW GRADE AND BURIED WHEN THE CURB IS BACKFILLED. FABRIC SHOULD BE WELL ANCHORED WITH 6 INCH STAKES POUNDED FLUSH WITH THE GRADE. PLANT OPENINGS MUST BE LARGE ENOUGH TO ALLOW FOR FUTURE GROWTH.

### TOP DRESSING 3/4" MINUS WASHED RIVER ROCK

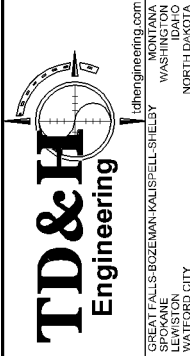
AFTER LANDSCAPE FABRIC HAS BEEN INSTALLED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, TOP DRESS BED AREAS WITH 3/4" MINUS WASHED RIVER ROCK, AS INDICATED ON DRAWINGS, A MINIMUM OF THREE INCHES DEEP. FABRIC MUST NOT BE EXPOSED OR PROTRUDE ABOVE THE WASHED RIVER ROCK OR CURB. ROCK SHOULD BE CLEAN AND SHOULD BE FREE OF DEBRIS AND SOIL.

### CLEANUP

- KEEP PREMISES NEAT AND ORDERLY INCLUDING ORGANIZATION OF STORAGE AREAS. REMOVE TRASH AND DEBRIS FROM EXCAVATED PLANTING AREAS, PREPARING BEDS, OR PLANTING PLANTS FROM SITE DAILY AS WORK PROGRESSES. KEEP PAVED AREAS CLEAN BY SWEEPING OR HOSING.
- REPAIR ALL DAMAGE CAUSED BY LANDSCAPE OPERATIONS.



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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

LEWISTON, IDAHO

PLANTING DETAILS

L14-006 L-2.DWG

SHEET L-2

BID SET