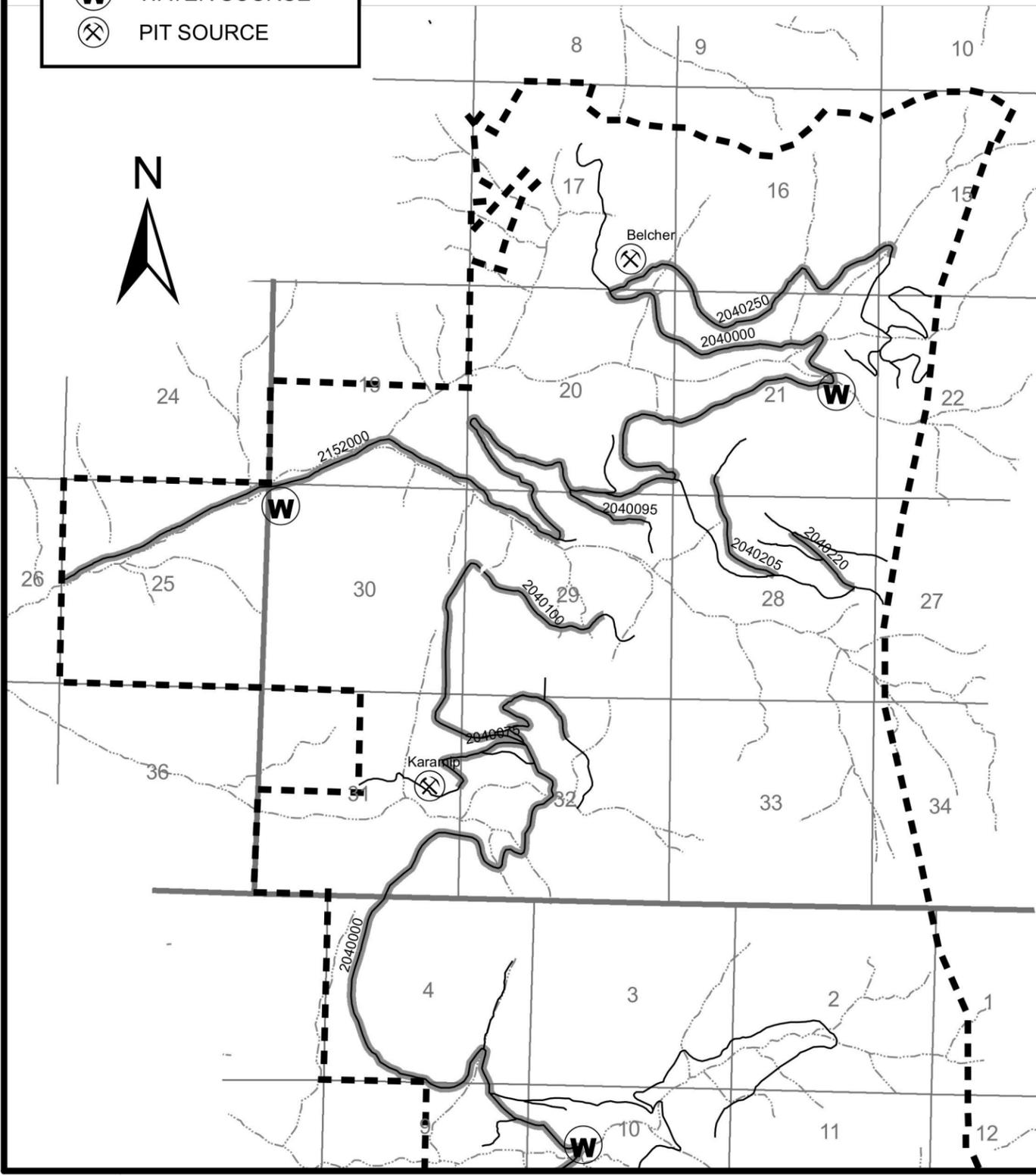
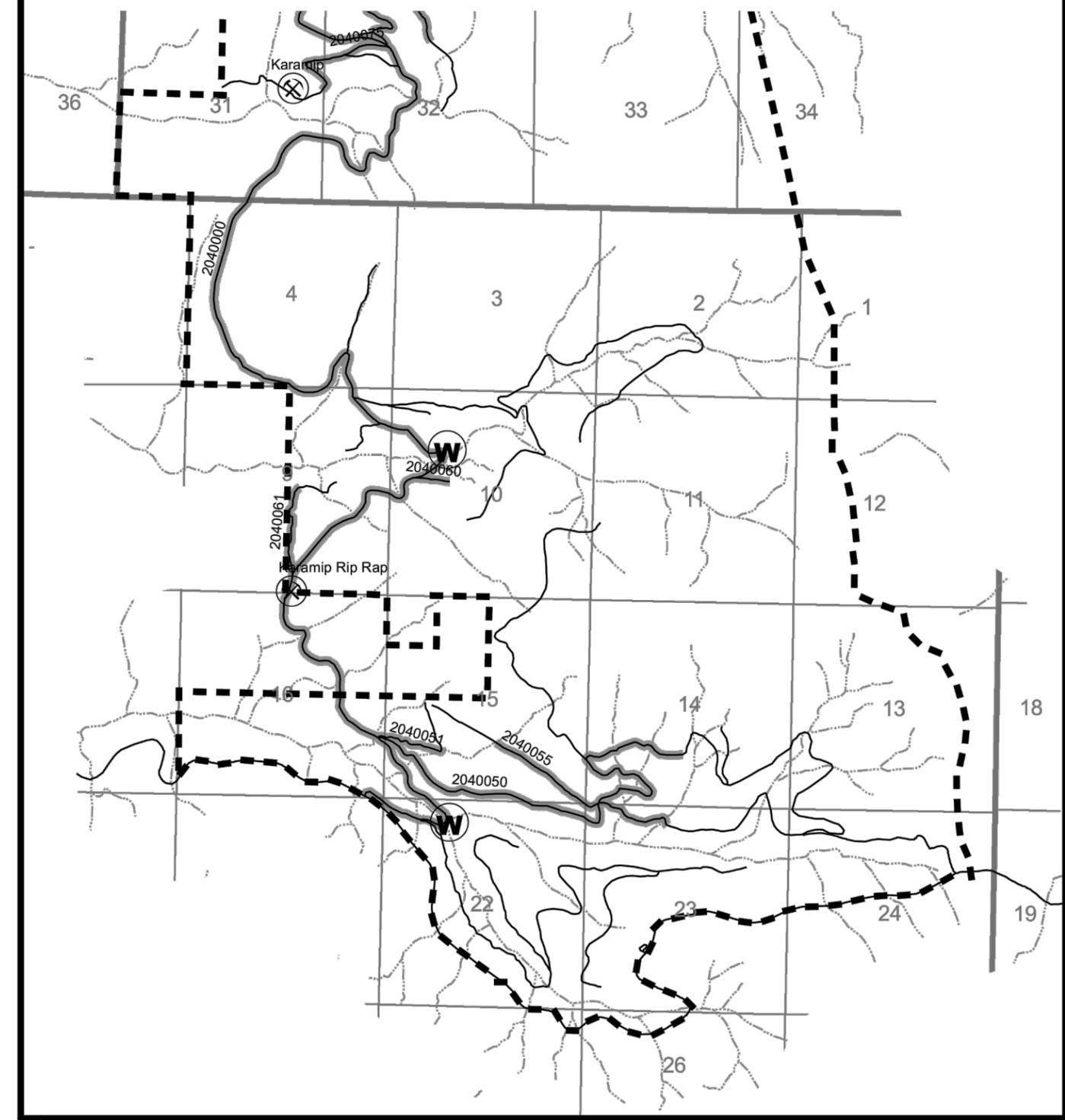


T 37 N, R 34 W

-  RECONSTRUCTION
-  EXISTING ROADS
-  STREAM
-  WATER SOURCE
-  PIT SOURCE



T 36 N, R 34 W



WALKER STEWARDSHIP	SHEET	OF
VICINITY	2	13

Item Number	Description	Unit	Project Road Number and Length										Page Totals	Remarks
			2040000 Seg 1	2040000 Seg 3	2040050	2040051	2040055	2040060	2040061	2040075	2040080	2040095		
			8.51	5.21	2.66	0.35	1.03	0.18	0.53	0.64	1.01	0.47		
Quantities														
15101	Mobilization	ls	All	All	All	All	All	All	All	All	All	All	All	
20103	Clearing and grubbing, disposal of tops and limbs f, logs f, and stumps f.	mile			1.35						0.09	0.04	1.48	
20152	Remove trees	each	1				1						2	
20301	Removal of CMP	each	3	2			1						6	
20305	Removal of structures and obstructions	ls						All	All		All		All	
20402	Roadway excavation, compaction method C, finishing method C .	mile							0.02	0.06	0.07	0.04	0.19	
20411	Embankment construction, compaction method C, finishing method C	cy	32		20								52	
20419A	Drainage excavation, type roadside ditch	ft		2220	690								2910	
20419B	Drainage excavation, type lead-off ditch	ft		10									10	
20420A	Drainage excavation, type drain dip	each				3			4	3	5	1	16	
20420B	Drainage excavation, type outslope drain	each			9		2	1	1		1	4	18	
20420C	Drainage excavation, type catch basin	each		1									1	
23050	Brushing	mile				0.35	1.03	0.18	0.53	0.64	1.01	0.43	4.17	
25101	Placed riprap, class 3.	cy	18		2								20	
30322	Road reconditioning, compaction method C	mile	0.02	0.02	2.66	0.35	1.03	0.18	0.53	0.64	1.01	0.43	6.87	
32211	Aggregate surface course, grading G, compaction method A	cy	24					8	40	24	8	16	120	
60211A	18 inch corrugated steel pipe, .064 inch thickness	ft	48	96			32						176	
60211B	24 inch corrugated steel pipe, .064 inch thickness	ft	98										98	
60211C	36 inch corrugated steel pipe, .064 inch thickness	ft		40									40	
62501	Seeding, dry method	acre	0.01	0.26	1.61								1.88	
65002	Install road closure device, type II gate, gov't furnished	each	1										1	

Item Number	Description	Unit	Project Road Number and Length								Page Totals	Project Total	Remarks
			2040100	2040205	2040220	2040250	2152000						
			0.75	0.65	0.41	1.93	2.79						
Quantities													
15101	Mobilization	ls	All	All	All	All	All	All	All	All	All	All	
20103	Clearing and grubbing, disposal of tops and limbs f, logs f, and stumps f.	mile		0.03							0.03	1.51	
20152	Remove trees	each									0	2	
20301	Removal of CMP	each					1				1	7	
20305	Removal of structures and obstructions	ls		All	All						All	All	
20402	Roadway excavation, compaction method C, finishing method C .	mile		0.28							0.28	0.47	
20411	Embankment construction, compaction method C, finishing method C	cy				15					15	67	
20419A	Drainage excavation, type roadside ditch	ft									0	2910	
20419B	Drainage excavation, type lead-off ditch	ft									0	10	
20420A	Drainage excavation, type drain dip	each		1	3	1					5	21	
20420B	Drainage excavation, type outslope drain	each	1			3					4	22	
20420C	Drainage excavation, type catch basin	each									0	1	
23050	Brushing	mile	0.75	0.65	0.41						1.81	5.98	
25101	Placed riprap, class 3.	cy									0	20	
30322	Road reconditioning, compaction method C	mile	0.75	0.37	0.41	1.93					3.46	10.33	
32211	Aggregate surface course, grading G, compaction method A	cy	8			16					24	144	
60211A	18 inch corrugated steel pipe, .064 inch thickness	ft					32				32	208	
60211B	24 inch corrugated steel pipe, .064 inch thickness	ft									0	98	
60211C	36 inch corrugated steel pipe, .064 inch thickness	ft									0	40	
62501	Seeding, dry method	acre				0.01	0.01				0.02	1.90	
65002	Install road closure device, type II gate, gov't furnished	each									0	1	

ROAD 2040000 Seg 1

MP	WORK ITEMS
0.00	Jct Hwy-20
0.17	Remove slide material from ditch and roadway
0.64	Repair fill failure, place 12 cy riprap, place 2 cy borrow, and scatter slash over site
1.00	Jct 2040050 Rt
1.01	Jct 2040051 Rt
1.03	Remove tree at culvert inlet
1.43	Jct 2040055 Rt
2.10	Jct 2040061 Lt
2.97	Jct 2040060 Rt
3.10	Remove and dispose existing CMP Install new 18" X 48' CMP
3.17	Install Type 2 gate as staked by CO
3.53	Jct 2040063 Lt
3.71	Jct 2040065 Rt
4.36	Begin placing 4" of aggregate
4.39	End placing 4" of aggregate
6.30	Remove and dispose existing CMP Install new 24" X 46' CMP
6.48	Remove and dispose existing CMP Install new 24" X 52' CMP
6.63	Haul and place 10 cy of fill - spread 25' each side of pipe for cover
6.83	Repair fill failure, place 6 cy riprap, place 2 cy borrow, and scatter slash over site
6.93	Jct 2040073 Lt
7.13	Jct 2040075 Lt
7.15	Jct 2040080 Rt
8.51	Jct 2040100 Rt End of project

ROAD 2040000 Seg 3

MP	WORK ITEMS
0.00	Jct 2152000
1.33	Remove and dispose existing CMP Install new 18" X 60' CMP
1.45	Jct 2040090 Lt, Jct 2040095 Rt
2.01	Jct 2040200 Rt
3.04	Remove slide material from ditch and roadway
3.19	Begin constructing ditch Rt
3.61	End constructing ditch Rt
3.73	Install new 18" X 36' CMP with catchbasin and lead-off ditch
3.94	Remove and dispose existing CMP Install new 36" X 40' CMP

ROAD 2040000 Seg 3 (continued)

MP	WORK ITEMS
5.21	Jct 2040250 Rt End of project

ROAD 2040050

MP	WORK ITEMS
0.00	Jct 2040000 Begin clearing and grubbing Begin roadway reconditioning
0.09	Construct OSD
0.19	Construct OSD
0.28	Construct OSD
0.41	Construct OSD
1.04	Construct OSD
1.35	Jct 2040055 Lt/Rt End clearing and grubbing
1.41	Construct OSD
1.49	Begin constructing ditch Lt
1.52	End constructing ditch Lt
1.57	Begin constructing ditch Lt
1.61	End constructing ditch Lt
1.64	Begin constructing ditch Rt
1.70	End constructing ditch Rt
1.79	Haul and place 20 cy of fill - spread 50' each side of pipe for cover
1.95	Construct OSD
2.11	Jct 2040054 Lt
2.17	Construct OSD
2.30	Haul and place 2 cy of riprap - armor outlet 3' wide and 18" deep
2.51	Construct OSD
2.60	Construct TAL
2.66	End of project, end all work

ROAD 2040051

MP	WORK ITEMS
0.00	Jct 2040000 Begin roadside brushing Begin roadway reconditioning
0.06	Construct DD
0.14	Construct DD
0.35	Construct DD End of project, end all work

WALKER STEWARDSHIP	SHEET	OF
WORK LIST	5	13

<u>ROAD</u>	<u>2040055</u>	<u>MP</u>	<u>WORK ITEMS</u>
		0.99	Begin roadside brushing Begin roadway reconditioning Remove and dispose existing CMP Install new 18" X 32' CMP
		1.06	Construct 20' LOD - Right
		1.44	Remove tree
		1.61	Jct 2040050
		1.85	Construct OSD
		2.01	Construct OSD
		2.02	End of project, end all work

<u>ROAD</u>	<u>2040075</u>	<u>MP</u>	<u>WORK ITEMS</u>
		0.00	Jct 2040000 Begin roadside brushing Begin roadway reconditioning
		0.41	Construct DD with aggregate
		0.42	Begin constructing 5' CWL
		0.48	End constructing 5' CWL
		0.55	Construct DD with aggregate
		0.63	Construct DD with aggregate Unit Boundary
		0.64	End of project, end all work

<u>ROAD</u>	<u>2040060</u>	<u>MP</u>	<u>WORK ITEMS</u>
0+00		0.00	Jct 2040000 Begin roadside brushing Begin roadway reconditioning
0+85		0.02	Remove earth berm
7+70		0.15	Construct OSD with aggregate
9+30		0.18	Wire gate End of project, end all work

<u>ROAD</u>	<u>2040080</u>	<u>MP</u>	<u>WORK ITEMS</u>
		0.00	Jct 2040000 Begin roadside brushing Begin roadway reconditioning
		0.03	Place 50 cy of borrow from rock berms
		0.08	Begin constructing 6' CWR
		0.09	End borrow placement
0+00		0.10	End constructing 6' CWR Remove rock berms x10
1+65		0.13	Construct DD
7+50		0.24	Construct DD
10+25		0.29	Construct DD
14+75		0.38	Construct DD
23+75		0.55	Jct 2040082 Lt
26+85		0.61	Construct DD
30+00		0.67	Construct OSD with aggregate
48+10		1.01	End of project, end all work

<u>ROAD</u>	<u>2040061</u>	<u>MP</u>	<u>WORK ITEMS</u>
0+00		0.00	Jct 2040000 Begin roadside brushing Begin roadway reconditioning
2+00		0.04	Remove earth berm x2
3+30		0.06	Construct DD with aggregate
6+00		0.11	Construct DD with aggregate
8+25		0.16	Construct DD with aggregate
10+20		0.19	Construct DD with aggregate
18+60		0.35	Construct OSD with aggregate
22+30		0.42	Begin constructing 2' CWR
23+30		0.44	End constructing 2' CWR
27+80		0.53	End of project, end all work

WALKER STEWARDSHIP	SHEET	OF
WORK LIST	6	13

<u>ROAD</u>	2040095	MP	WORK ITEMS
0+00	0.00		Jct 2040000 Begin clearing and grubbing Begin constructing 12' roadbed
1+00	0.02		Construct DD with aggregate
2+00	0.04		End constructing 12' roadbed End clearing and grubbing Begin roadside brushing Begin roadway reconditioning
6+00	0.11		Construct OSD
9+60	0.18		Construct OSD with aggregate
14+35	0.27		Construct OSD
16+35	0.31		Construct OSD
25+00	0.47		End of project, end all work

<u>ROAD</u>	2040100	MP	WORK ITEMS
	0.00		Jct 2040000 Begin roadside brushing Begin roadway reconditioning
	0.46		Construct OSD with aggregate
	0.75		Construct TAL End of project, end all work

<u>ROAD</u>	2040205	MP	WORK ITEMS
	0.00		Jct 2040000 Begin roadside brushing Begin roadway reconditioning
	0.01		Remove rock from shoulder
	0.09		Construct DD
	0.37		Construct TOL Begin constructing 12' roadbed
	0.65		Construct TAR End of project, end all work

<u>ROAD</u>	2040220	MP	WORK ITEMS
0+00	0.00		Jct 2040200 Begin roadside brushing Begin roadway reconditioning
0+80	0.02		Remove earth berm
4+00	0.08		Construct OSD
5+25	0.10		Jct 2040221 Lt
14+50	0.27		Construct OSD
20+00	0.38		Construct OSD
21+80	0.41		Jct 2040223 Lt End of project, end all work

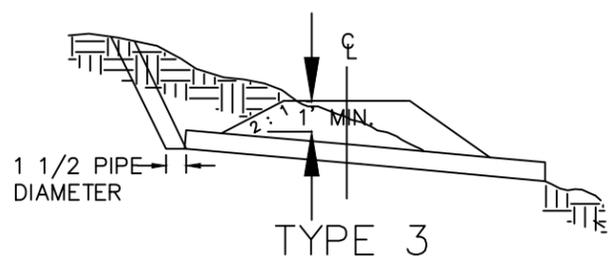
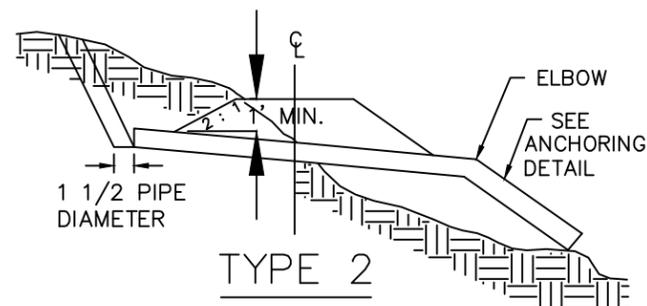
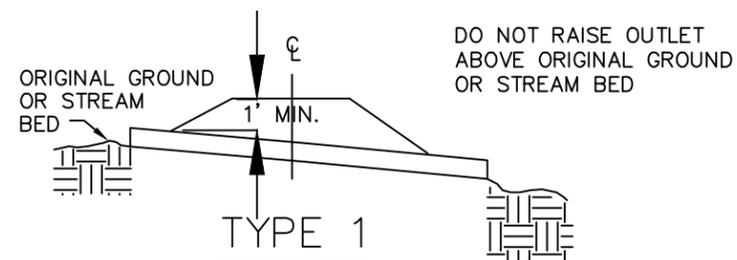
<u>ROAD</u>	2040250	MP	WORK ITEMS
	0.00		Jct 2040000 Begin roadway reconditioning
	0.10		Construct OSD
	0.27		Construct DD
	0.32		Begin constructing 12' roadbed
	0.34		End constructing 12' roadbed
	0.78		Construct OSD with aggregate
	1.86		Clean catchbasin
	1.92		Stock trough Construct OSD with aggregate
	1.93		End of project, end all work

<u>ROAD</u>	2152000	MP	WORK ITEMS
	0.00		Cattle Guard @ FS Boundary
	0.21		Jct C-284 Lt
	1.75		Remove and dispose existing CMP Install new 18" x 32' CMP
	2.79		Jct 2040000 Lt End of project

WALKER STEWARDSHIP	SHEET	OF
WORK LIST	7	13

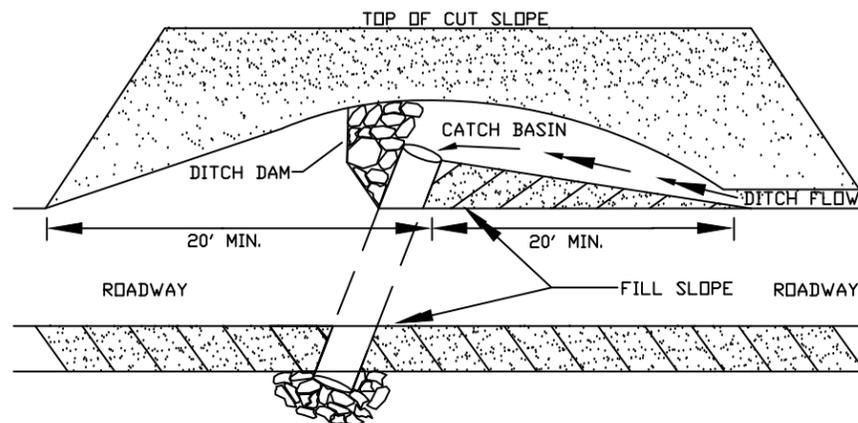
CULVERT DETAILS

CULVERT TYPES

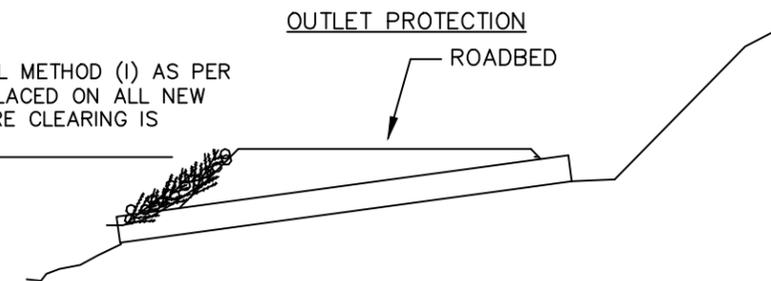


CATCH BASIN DETAIL AND INLET & OUTLET PROTECTION

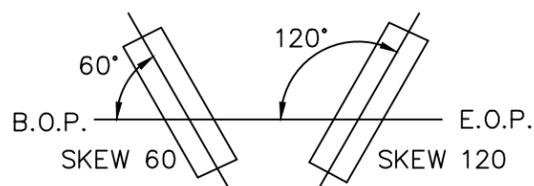
FOR ALL NEW TYPE 1, 2 & 3 CULVERT INSTALLATION



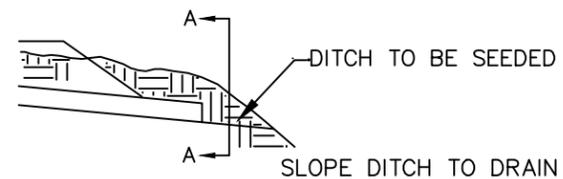
SLASH DISPOSAL METHOD (I) AS PER FSSS 203.05 PLACED ON ALL NEW CULVERTS WHERE CLEARING IS SPECIFIED.



SKEW DIAGRAM



LEADOUT DITCH



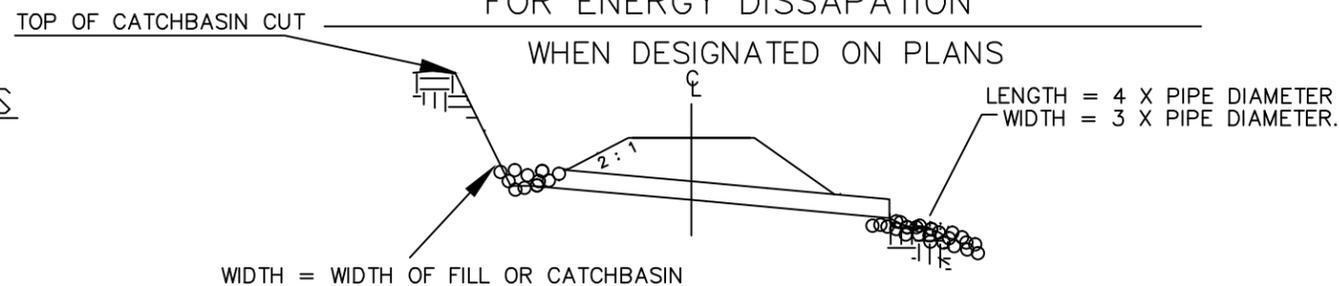
LEADOUT DITCH

SECTION A-A

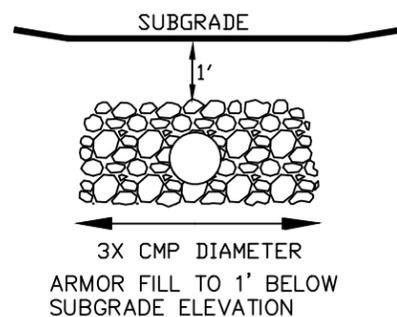


RIPRAP CULVERT INLET & OUTLET FOR ENERGY DISSIPATION

WHEN DESIGNATED ON PLANS



ARMORING CULVERT FILL SLOPES



WALKER STEWARDSHIP
CULVERT DETAILS

SHEET
9

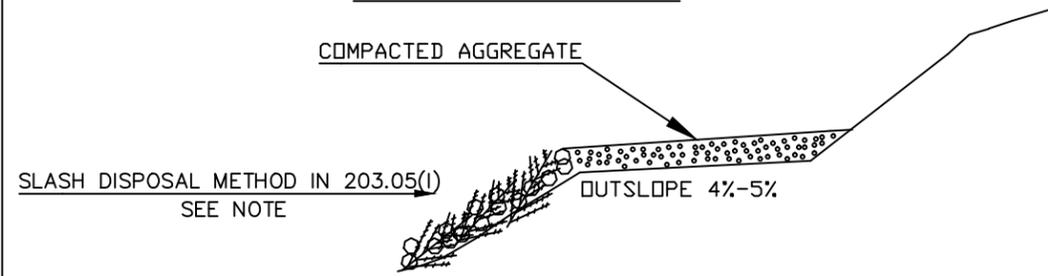
OF
13

DESIGNED			AS BUILT			CORRUGATION & THICKNESS		INSTALLATION DETAILS				GA. - GAUGE AL. - ALUMINUM FE. - STEEL TF. - TO FIT
STATION OR MILE POST	DIAMETER IN INCHES	LENGTH IN FEET	STATION	DIAMETER IN INCHES	LENGTH IN FEET	2-2/3" x 1/2" .064 FE (16 GA.)	2-2/3" x 1/2" .060 AL (16 GA.)	TYPE	SKEW	COMPACTION METHOD	STAKING METHOD	SLASH DISPOSAL METHOD (1) AS PER FSSS 203.05 SHALL BE PLACED ON ALL CULVERT INSTALLATIONS WHERE CLEARING IS SPECIFIED.
												REMARKS
<u>Rd 2040000 Seg. 1</u>												
3.10	18	48				X		3	TF	A	1	
6.30	24	46				X		1	TF	B	1	
6.48	24	52				X		1	TF	B	1	
<u>Rd 2040000 Seg. 3</u>												
1.33	18	60				X		3	TF	A	1	
3.73	18	36				X		3	60°	A	1	
3.94	36	40				X		1	TF	B	1	
<u>Rd 2040055</u>												
0.99	18	32				X		3	TF	A	1	
<u>Rd 2152000</u>												
1.75	18	32				X		3	60°	A	1	

DRAINAGE DETAILS

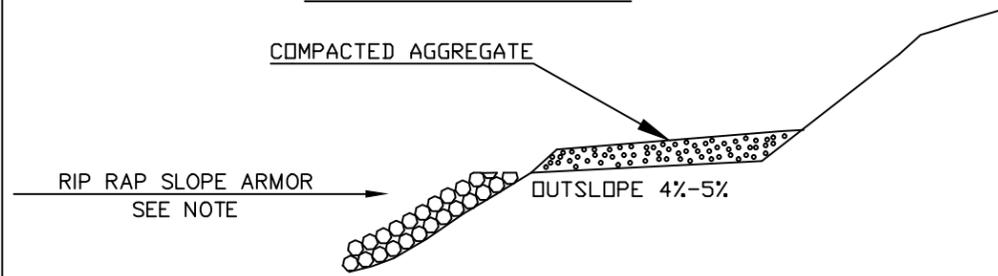
OUTSLOPE DRAIN & DRAIN DIP

SLOPE TREATMENT

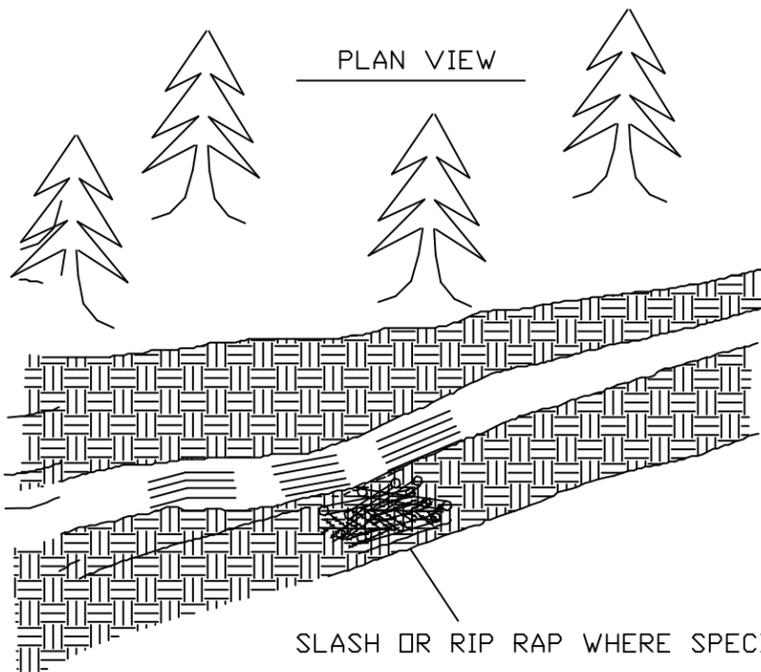


OUTSLOPE DRAIN & DRAIN DIP

SLOPE TREATMENT

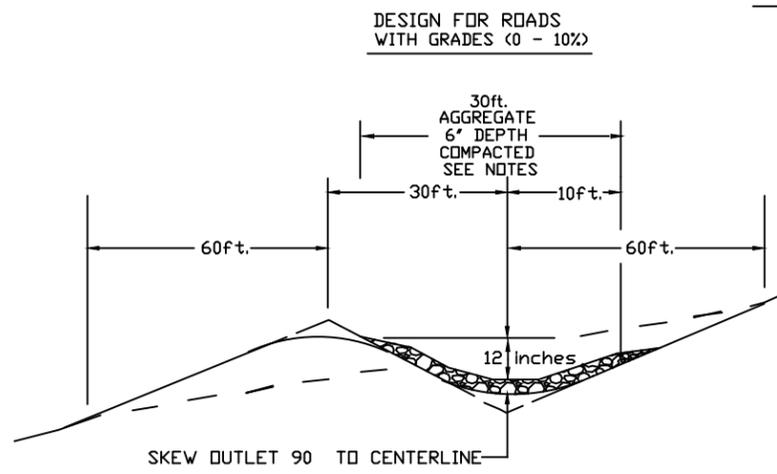


PLAN VIEW

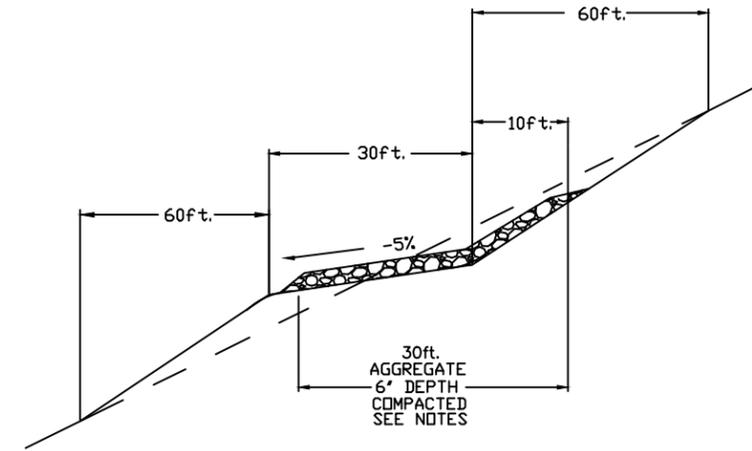


DRAIN DIP DETAILS (DD)

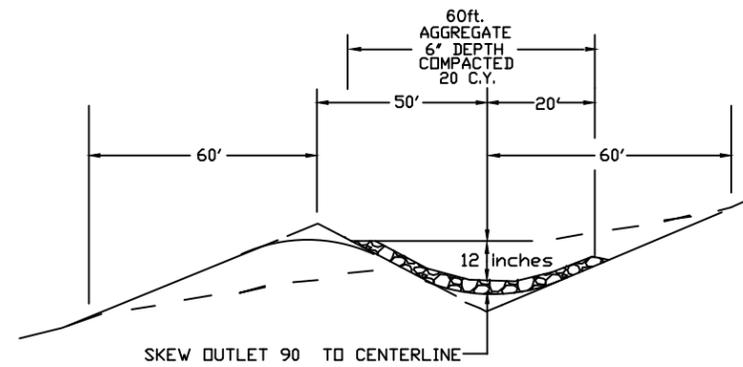
PROFILE VIEW



DESIGN FOR ROADS WITH GRADES (11 - 14%)

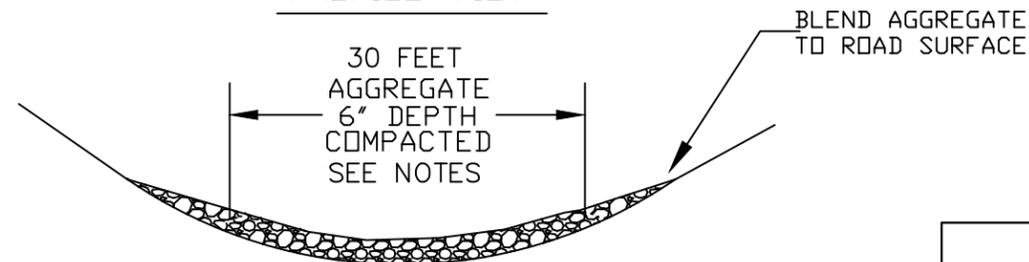


DESIGN FOR ROADS WHERE CRITICAL VEHICLE IS A LOWBOY WITH GRADES (0 - 7%)



OUTSLOPE DRAIN DETAIL (OSD)

PROFILE VIEW



NOTES:

WHEN GEOTEXTILE IS SPECIFIED IN DRAIN DIPS OR OUT SLOPE DRAINS, SIZE SHALL BE 15'W X 30'L
DO NOT INTERCEPT DITCH WATER WHERE DRAIN DIPS OR OUT SLOPE DRAINS ARE DESIGNATED IN DITCHED SECTIONS, UNLESS OTHERWISE SPECIFIED.

SLASH SHALL BE PLACED ON FILL SLOPES TO A DEPTH OF 1' AT THE LOWEST POINT IN DRAIN DIP OR OUTSLOPED DRAIN, AND EXTEND 5' EACH WAY. THIS APPLYS TO ALL NEW AND RESHAPED DRAINS THAT ARE WITHIN ALL CLEARING LIMIT AREAS.

PLACE RIP RAP ON FILL SLOPES OF DRAIN DIP OR OUTSLOPED DRAINS WHERE SPECIFIED, 1' DEEP, EXTENDING 4' EACHWAY OF LOWEST POINT.

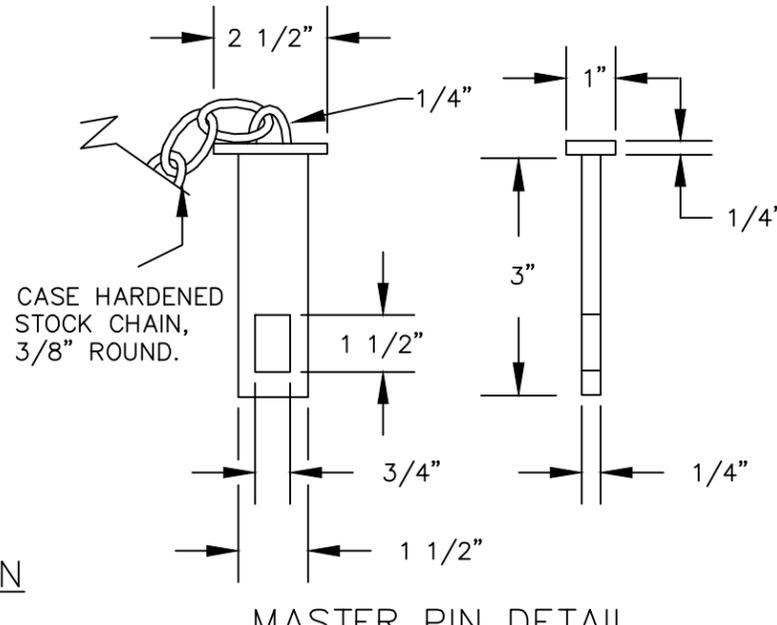
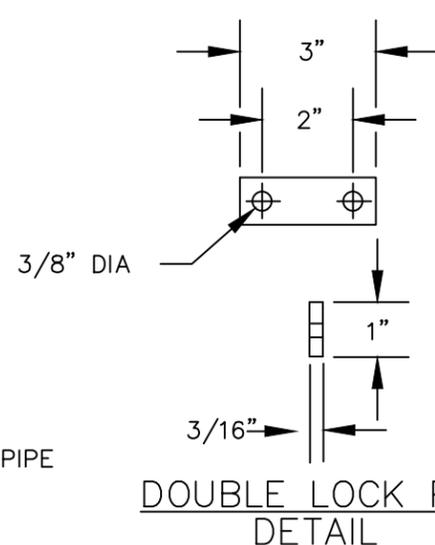
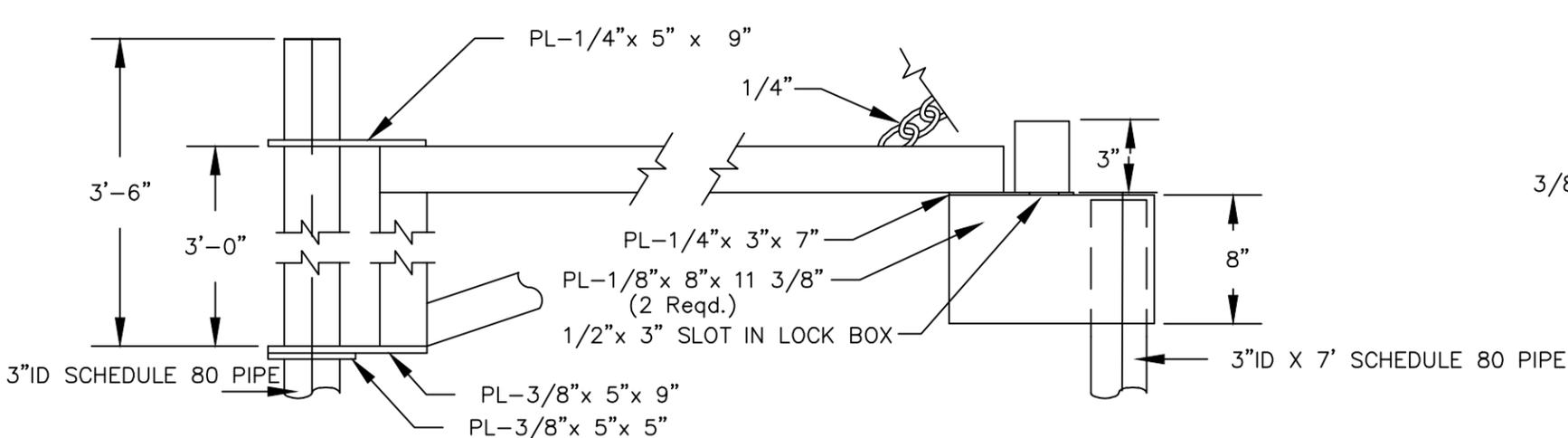
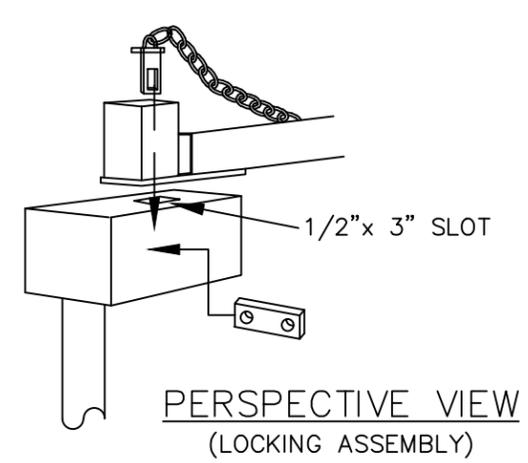
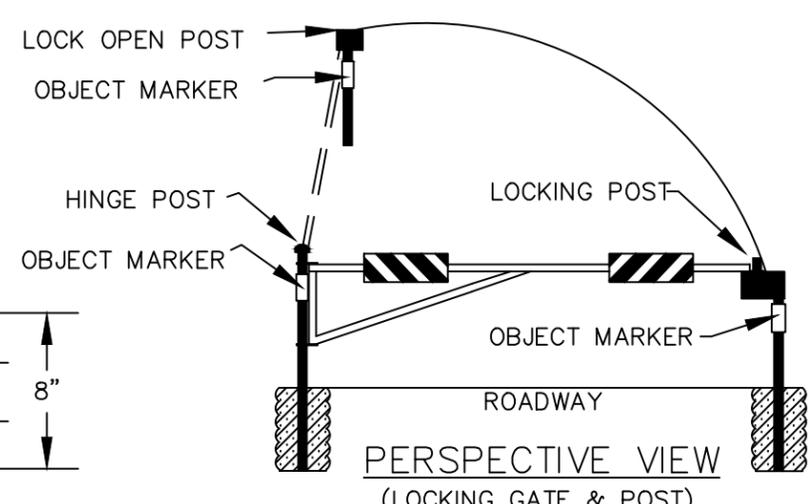
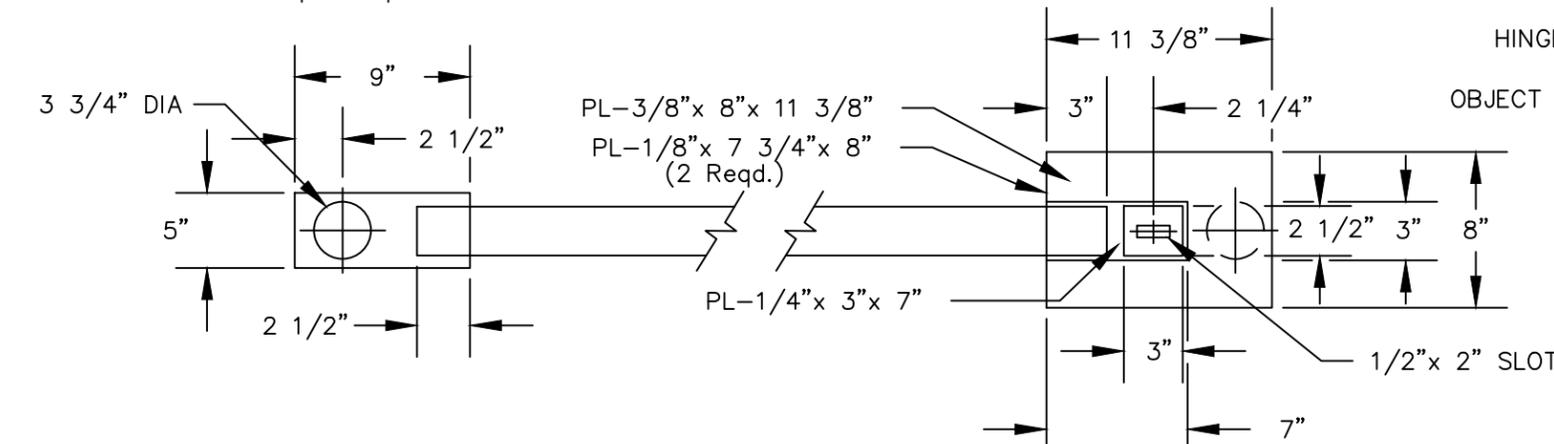
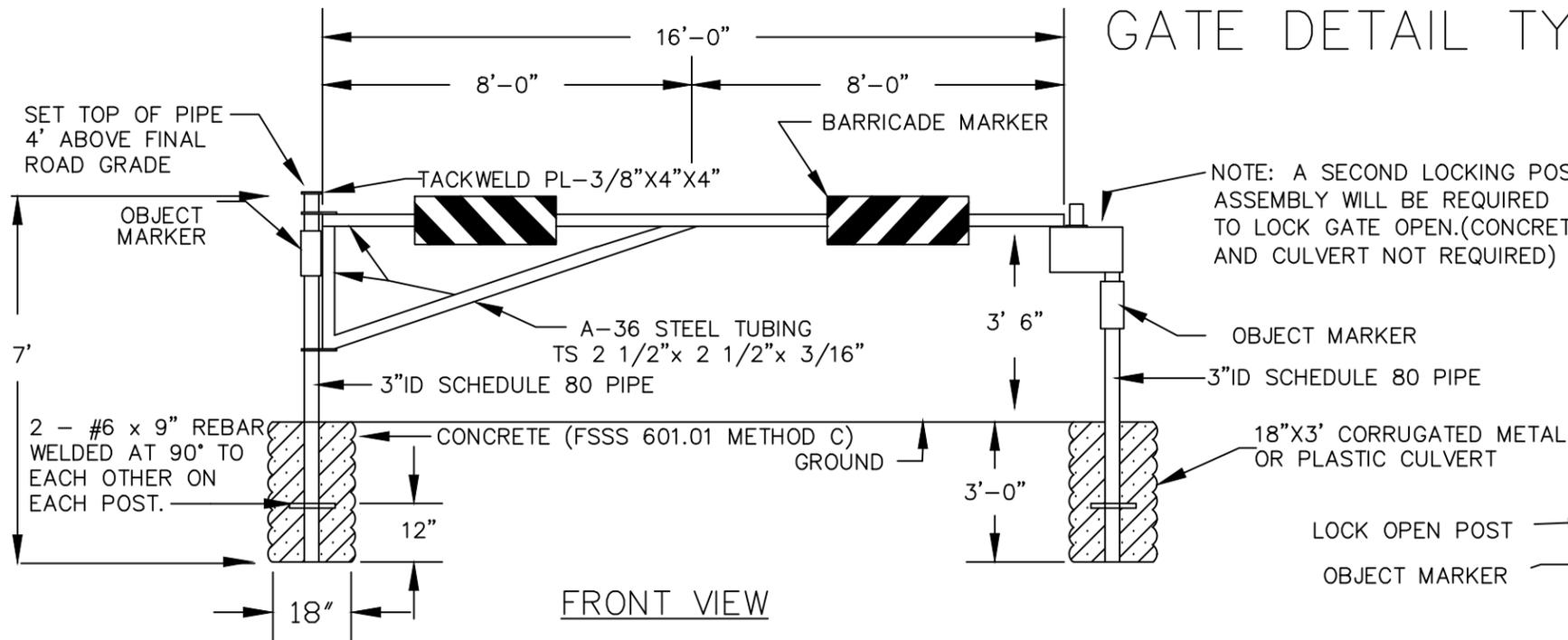
WHEN AGGREGATE IS SPECIFIED IN WORKLIST:
12' ROADBEDS REQUIRE 8 C.Y. OF IN PLACE AGGREGATE
14' ROADBEDS REQUIRE 10 C.Y. OF IN PLACE AGGREGATE

WALKER STEWARDSHIP	SHEET	OF
DRAINAGE DETAILS	11	13

GATE DETAIL TYPE II

NOTES

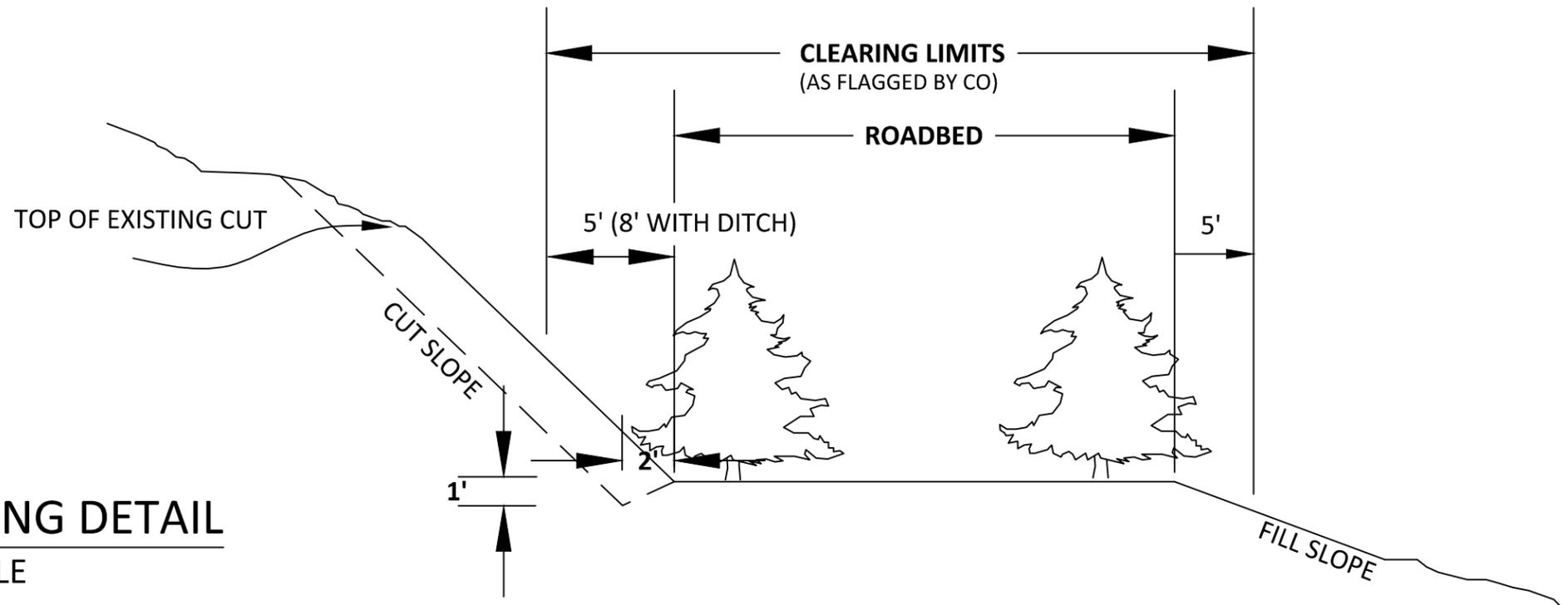
1. EXTERIOR METAL EPOXY PAINT, COCOA BROWN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. BARRICADE MARKERS SHALL MEET MUTCD REQUIREMENTS FOR TYPE 1 (FBM-L AND FBM-R). COLOR - RED & WHITE. 4 REQUIRED, 2 LEFT SIDE STRIPE, 2 RIGHT SIDE STRIPE.
3. OBJECT MARKERS SHALL MEET MUTCD REQUIREMENTS FOR TYPE 2. 6 REQUIRED, 2 ON EACH SIDE OF POSTS DESIGNATED.
4. ALL WELDS REQUIRED TO MANUFACTURE GATE, UNLESS OTHERWISE SHOWN, SHALL BE FILLET AND SHALL BE OF THE SAME SIZE AS THE THICKNESS OF THE SMALLER OF THE TWO PIECES BEING JOINED.
5. ALL MARKERS SHALL MEET MUTCD REQUIREMENTS FOR HIGH INTENSITY PRISMATIC RETROREFLECTIVE SHEETING.



WALKER STEWARDSHIP	SHEET	OF
GATE DETAIL	12	13

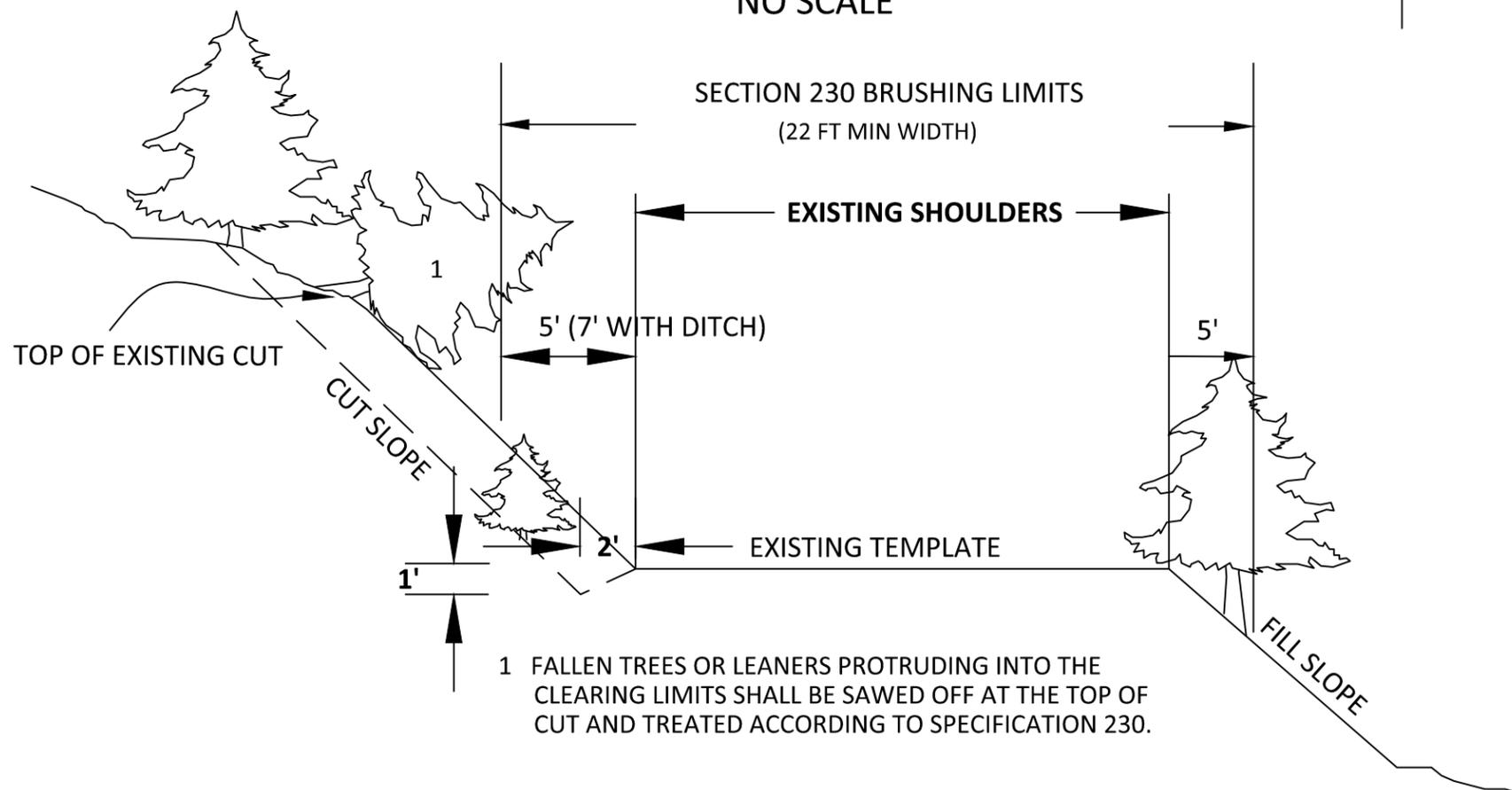
TYPICAL CLEARING DETAIL

NO SCALE



TYPICAL BRUSHING DETAIL

NO SCALE



1 FALLEN TREES OR LEANERS PROTRUDING INTO THE CLEARING LIMITS SHALL BE SAWED OFF AT THE TOP OF CUT AND TREATED ACCORDING TO SPECIFICATION 230.

WALKER STEWARDSHIP	SHEET	OF
BRUSHING DETAIL	13	13