

STANDARD LEGEND (PLAN VIEW)

EXISTING	PROPOSED	
		Centerline
		Cable TV
		Easement
		Electric/Fiber Optic Line Buried
		Electric Line Overhead
		Fence Line
		Gas Line
		Property Line
		Sanitary Sewer
		Storm Sewer
		Storm Culvert
		Roof Drain
		Telephone
		Water Line
		Building Line
		Rail Road
		Guard Rail
		Top of Bank
		Tree Line
		Retaining Wall
		Tree - Conifer
		Tree - Deciduous
		Bush
		GPS/Control Monument
		Bench Mark
		Bore Hole
		Emergency Phone/Booth
		Mailbox
		Post/Bollard
		Sign
		Accessible Symbol
		Park Bench
		Spot Elevation
		TO ELEVATION FL ELEVATION

STANDARD LEGEND (PLAN VIEW)

EXISTING	PROPOSED	
		Sanitary Sewer Manhole
		Sanitary Cleanout
		Septic Tank
		Storm Sewer Manhole
		Storm SO Inlet/Box
		Area Inlet
		Utility Pole
		Utility Pole Anchor
		Street Light
		Yard Light
		Transformer
		Electric Manhole
		Electric Meter
		Buried Electric Box
		AC Compressor
		Water Manhole/Valve Pit
		Water Meter
		Water Valve
		Fire Hydrant
		Gas Meter
		Gas Valve
		Liquid Propane Tank
		Telephone Manhole
		Telephone Pedestal
		Buried Telephone Box

BOUNDARY SYMBOLS

	Stone Marker
	Non-Standard Property Marker
	1/2" property Iron
	5/8" OR Larger Property Iron
	Type A Monument
	Right-of-Way Marker
	Corner Post

STANDARD ABBREVIATIONS

Note: See the National CAD Standard for Abbreviations not Included Below

AASHTO	American Society of State Highway & Transportation Officials	EL/Elev	Elevation	OD	Outside Dimension
AC	Asbestos Cement/Asphaltic Concrete	EP/ES	Edge of Pavement/Shoulder	OHE	Overhead Electric
Acc	Accessible	Egn Sta	Egation Station	PC	Point of Curvature
ACI	American Concrete Institute	ESI	Engineer Supplemental Instruction	PI	Point of Intersection
Aggr	Aggregate	EX	Existing	PL	Property Line
Ah	Ahead	FD	Floor Drain/Foundation Drain	PP	Power Pole
Alt	Alternate	FDC	Fire Department Connection	PT	Point of Tangency
ASTM	American Society of Testing and Materials	Fdn	Foundation	PVC	Polyvinyl Chloride (Plastic)
AWG	American Wire Gauge	FES	Flared End Section	PCC	Portland Concrete Cement
AWWA	American Water Works Association	FF	Finish Floor Elevation	R	Radius
ADA	Americans with Disabilities Act	FG	Finish Grade	RCB/RCP	Reinforced Concrete Box/Pipe
AI	Area Inlet	FH	Fire Hydrant	RD	Roof Drain
BC	Back of Curb	FHWA	Federal Highway Administration	Rt	Right
Bdry	Boundary	FL	Flow Line	ROW	Right of Way
Bh	Behind	FM	Factory Mutual	San	Sanitary
BM	Benchmark	Fnc	Fence	SI	International System of Units
BW	Base of Wall	GL/GM/GV	Gas Line/Meter/Valve	SO	Side Opening
Ctrs	Center to Center	GV&B	Gate Valve & Box	SW	Sidewalk
CFS	Cubic Feet per Second	HDPE	High Density Polyethylene Pipe	Sta	Station
CI	Curb Inlet	HB	Hose Bibb	Stm	Steam
CIP	Cast-In-Place/Cast Iron Pipe	IBC	International Building Code	TBM	Temporary Benchmark
CL	Centerline	ID	Inside Dimension	Tele	Telephone
CMP	Corrugated Metal Pipe	JBox	Junction Box	TCE	Temporary Construction Easement
CMU	Concrete Masonry Unit	LF	Linear Feet	TOC	Top of Curb
CO	Cleanout	LIP	Leave in Place	TOF	Top of Footing
CP	Control Point/Concrete Pipe	LP	Light Pole	TW	Top of Wall
CWL/CWR/CWS	Chilled Water Line/Return/Supply	Lt	Left	Typ	Typical
D	Depth	MC	Moisture Content	UE	Underground Electric/Fiber
DA	Drainage Area	MEP	Mechanical/Electrical/Plumbing	UL	Underwriters Laboratories
Dia	Diameter	ML	Match Line	UNO	Unless Noted Otherwise
DIP	Ductile Iron Pipe	MH	Manhole	VC	Vertical Curve
DS	Downspout/Disconnect Switch	MUTCD	Manual of Uniform Traffic Control Devices	VCP	Vitrified Clay Pipe
EL	Easement Line	MODOT	Missouri Department of Transportation	VPC	Vertical Point of Curvature
EW	Each Way	N	Northing	VPI	Vertical Point of Intersection
E	Easting	NTS	Not to Scale	VPT	Vertical Point of Tangency
EG	Existing Grade	o.c.	On Center	WL/WM	Water Line/Meter
		OSHA	Occupational Safety and Health Administration	WS	Wheel Stop
				WWF	Welded Wire Fabric

QUANTITIES

Summary of Quantities		
Description	Units	Quantity
Clearing and Grubbing	LS	1
Removal of Improvements	LS	1
Grading for Concrete Sidewalk	LF	497
Concrete Sidewalk Ramp	SQYD	36.5
Detectable Warning	SQFT	44.9
Paved Approach, 6 in.	SQFT	146.4
Reinforced Concrete Sidewalk, 4 in.	SQYD	324.1
Residential Driveway Curb	LF	155.1
Sidewalk Ramp Curb	LF	63.7
Typical Curb	LF	23.1
Gravel Driveway Repair	EA	3
Asphalt Driveway Repair	EA	1
Traffic Control	LS	1.0
Mobilization	LS	1.0
Contractor Furnished Surveying and Staking	LS	1.0
Modular Block Wall	SQFT	233
Mulching and Seeding	LS	1
Silt Fence	LF	645
Inlet Erosion Control	EA	2

Modular Block Walls			
Sheet	Sta. to Sta.	Length (LF)	Modular Block Wall (SQFT)
C101	00+57.6	00+96.4	38.8
C101	02+81.1	03+31.4	50.3
Totals			233

Concrete Approach Pavement				
Sheet	Sta. to Sta.	Location	6 Inch Reinforced Concrete Sidewalk (SQYD)	
C101	01+62.6	01+84.6	Oakland Gravel	20.0
C101	02+53.0	02+77.7	Oakland Gravel	22.8
C102	03+51.9	03+75.2	Oakland Gravel	21.4
C102	04+15.5	04+72.8	Oakland Gravel	30.3
C102	05+25.0	05+47.0	Oakland Gravel	20.0
C102	06+14.9	06+46.5	Oakland Gravel	31.7
Totals				146.4

Concrete Sidewalk							
Sheet	Sta. to Sta.	Location	Length (LF)	Width (LF)	4 Inch Reinforced Concrete Sidewalk (SQYD)	Grading (LF)	
C101	00+29.7	00+39.5	Oakland Gravel	12.8	6	5.6	
C101	00+59.2	01+62.6	Oakland Gravel	103.4	6	68.9	
C101	01+84.6	02+53.0	Oakland Gravel	68.4	6	45.6	
C101	02+77.7	03+31.4	Oakland Gravel	72.3	Varies	49.0	
C102	03+50.0	03+51.9	Oakland Gravel	1.9	6	1.3	
C102	03+75.2	04+41.5	Oakland Gravel	66.3	6	44.2	
C102	04+72.8	05+25.0	Oakland Gravel	52.2	6	34.8	
C102	05+47.0	06+02.0	Oakland Gravel	53.0	6	35.4	
C102	06+00.0	06+14.9	Oakland Gravel	14.9	6 to 8.5	11.9	
C102	06+46.5	06+89.2	Oakland Gravel	42.7	5	22.7	
C102	07+08.6	07+16.4	Edris	8.6	5	4.9	
Totals						324.1	497

Concrete Sidewalk Ramp							
Sheet	Sta. to Sta.	Location	Length (LF)	Width (LF)	4 Inch Reinforced Concrete Sidewalk (SQYD)	Detectable Warning (SQFT)	
C101	00+10.0	00+29.7	Blue Ridge	19.7	5 to 6	11.2	
C101	00+39.5	00+59.2	Oakland Gravel	19.6	6	11.4	
C102	06+85.8	07+10.2	Oakland/Edris	22.1	6	13.9	
Totals						36.45	61

Concrete Curb					
Sheet	Sta. to Sta.	Location	Residential Driveway Curb (LF)	Sidewalk Ramp Curb (LF)	Vertical Curb (LF)
C101	00+10.0	00+59.2	Blue Ridge/Oakland		49.2
C101	01+62.5	01+84.6	Oakland Gravel	22.1	
C101	02+53.0	02+77.8	Oakland Gravel	24.8	
C102	03+51.9	03+75.2	Oakland Gravel	23.3	
C102	04+15.5	04+72.8	Oakland Gravel	31.3	
C102	05+25.0	05+47.0	Oakland Gravel	22.0	
C102	06+14.9	06+46.5	Oakland Gravel	31.6	
C102	06+46.5	06+59.5	Oakland Gravel		13.0
C102	06+85.8	06+93.0	Oakland Gravel		7.2
C102	06+93.0	07+03.1	Oakland/Edris		10.1
C102	07+03.1	07+10.4	Edris		7.3
Totals			155.1	63.7	23.1

GENERAL NOTES

GENERAL NOTES:

- DEVIATIONS FROM PLANS OR SPECIFICATIONS: Any deviations in the location or number of facilities noted for installation on these plans, or extension or rerouting the utilities constructed under these plans, requires the written authorization of the Owner's Representative before proceeding. Items installed in conflict with the plans and specifications and without such approval will not be approved for payment.
 - SITE ACCESS: The Contractor shall provide access to the work at any time for the Owner, Engineer, and state or local officials.
 - SAFETY: Safety on the job is the sole responsibility of the Contractor. The Contractor is responsible to replace and maintain proper barricades and/or fences to prevent injury to his and other personnel and the public. The Contractor shall leave such barricades and/or fences in place at any time he is absent from the job site.
 - All pavements, sidewalks, abandoned sewers, pipelines, excess earthwork, or other obstructions to construction that are removed, shall become the property of the Contractor unless specifically noted, and shall be disposed of by the Contractor in accordance with state regulation 10 CSR 80-2.010.
 - Removals of portions of pavement, curb gutters, sidewalk, and other similar improvements shall be removed to an existing joint if one is within 18". Unless noted otherwise, if there is no existing joint, a joint shall be sawed to minimum depth of 2" with true line and vertical face prior to removal.
 - The Contractor shall maintain all construction operations within easements and right-of-ways.
 - The Contractor shall be responsible for the replacement of any property monuments (irons) removed or destroyed by his construction. Monuments being reset shall be placed by a surveyor, licensed to practice in the State of Missouri.
 - The Contractor shall incorporate all construction staking in the base bid.
 - All disturbed areas shall be fertilized, seeded, and mulched in accordance with the contract documents.
 - Locations of existing utilities are shown for information only and are not guaranteed to be either accurate or complete. It is the Contractor's responsibility to contact all utilities and obtain utility staking prior to construction. Utilities on private property may not be shown.
 - Unless otherwise noted all dimensions, coordinates, and spot elevations are to the back of curb, where applicable.
 - Base topographic survey prepared by Central Counties Surveying.
 - Measurement and payment of all work will be in accordance with the contract documents.
 - SPECIAL INSPECTIONS: The Contractor shall coordinate, and be responsible for all special inspections and testing outlined in the contract documents.
 - LAYOUT and DIGITAL DRAWINGS (civil) will be available to the successful contractor after award of the contract upon their request. Digital info will be in ACAD 17 format.
- SIDEWALK NOTES:**
- Sidewalk cross slopes shall not exceed 2% (¼" per foot). Sidewalk shall drain toward the street unless noted otherwise. On sidewalks wider than 6', the cross slope shall be reduced to 1%.
 - The depth of the sidewalk saw joints shall be ¼ the sidewalk thickness, unless noted otherwise.
 - Transverse joints shall be located per the joint layout plan. If no plan exists the following criteria shall be used for joint layout:
 - Joint spacing shall not exceed 1.5 times the panel width, unless noted otherwise.
 - At no time shall the transverse joint spacing exceed 24 times the sidewalk thickness.
 - Expansion joints shall be ½" thick, full depth, pre molded non-bituminous joint material, and shall be placed per the joint layout plan. If no plan exists, the following criteria shall be used:
 - In long runs at a maximum spacing of 75 feet.
 - Where one sidewalk abuts another or abuts a sidewalk ramp or drive.
 - Where the sidewalk is adjacent to a rigid structure, not including curb and gutter.
 - Sidewalks shall be a minimum of 6" thick when crossing driveways and approaches.
 - The sidewalk surface shall have a light broom finish, perpendicular to the direction of travel.

Revision	By	Date	No.

OAKLAND GRAVEL
 RD. SW - BLUE
 RIDGE TO EDRI

City of Columbia, Missouri
 Department of Public Works

McCLURE
 ENGINEERING CO.

1901 Pennsylvania Drive
 Columbia, MO 65202
 P 573-814-1568
 F 573-814-1128

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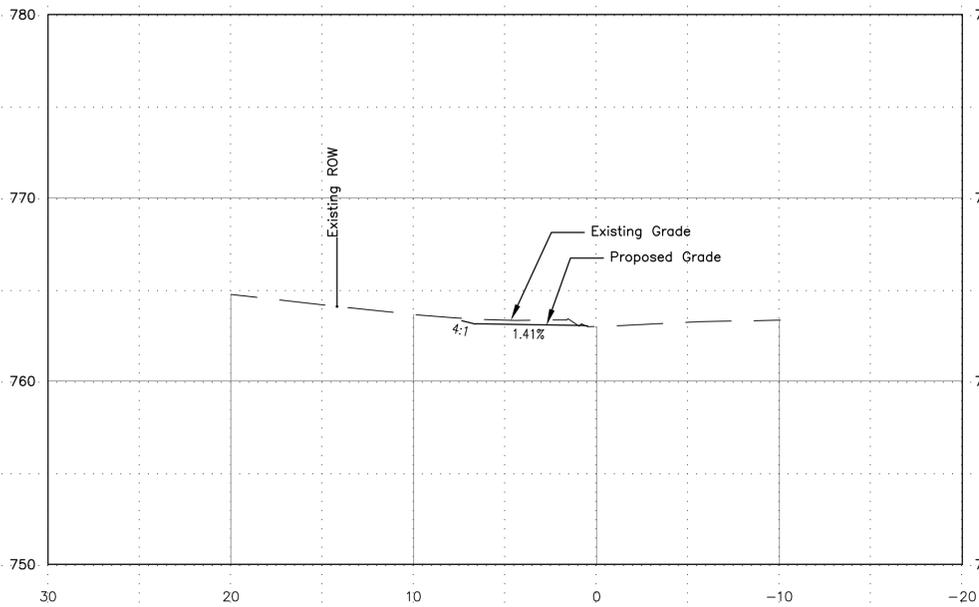
CHRISTOPHER M. SANDER
 PE 2001004568
 JANUARY 9, 2018

File No.	80816103
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Date:	January 9, 2018
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Dwn.	G.R.K.
Chk.	C.M.S.

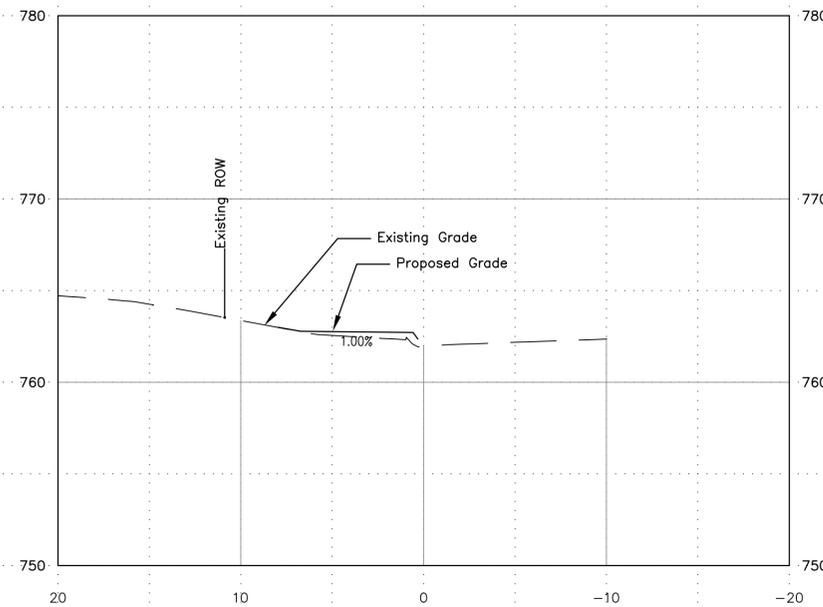
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0002

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 VERTICAL 1"=5'

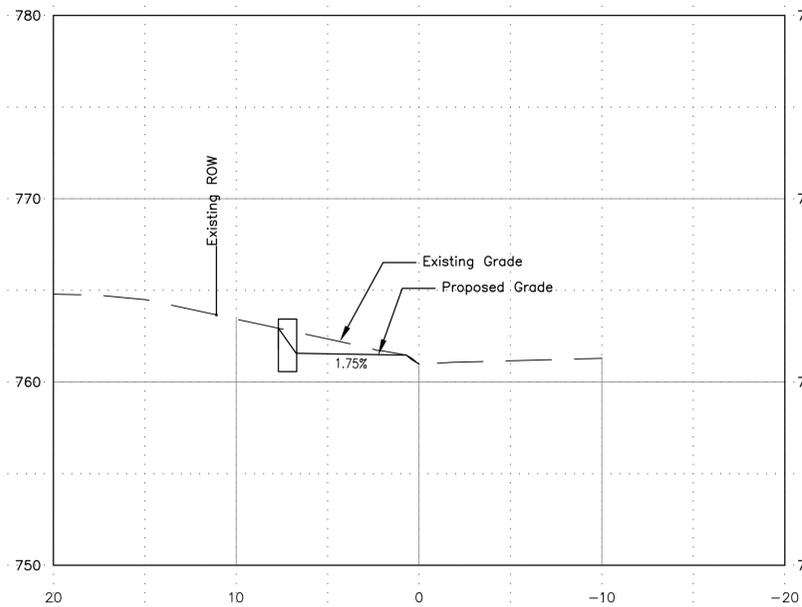
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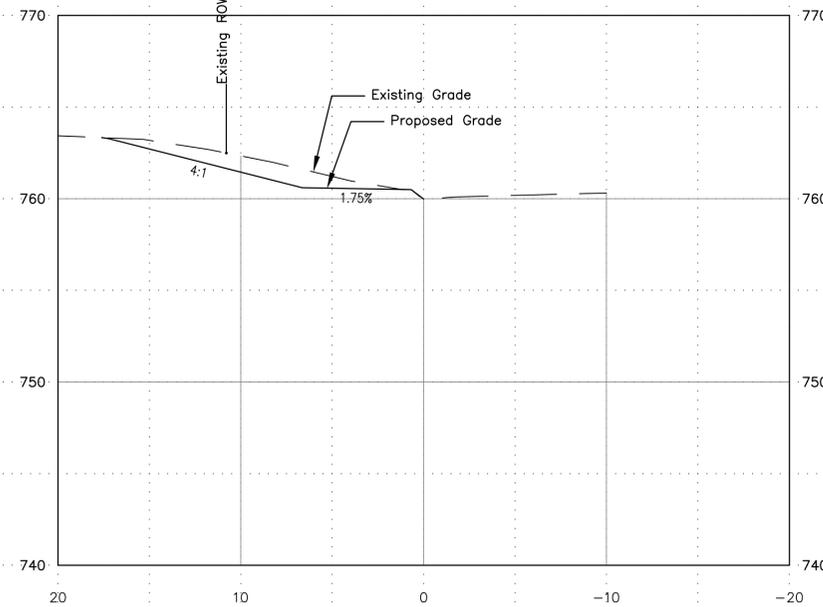
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Section View 0+75.00



Section View 1+00.00



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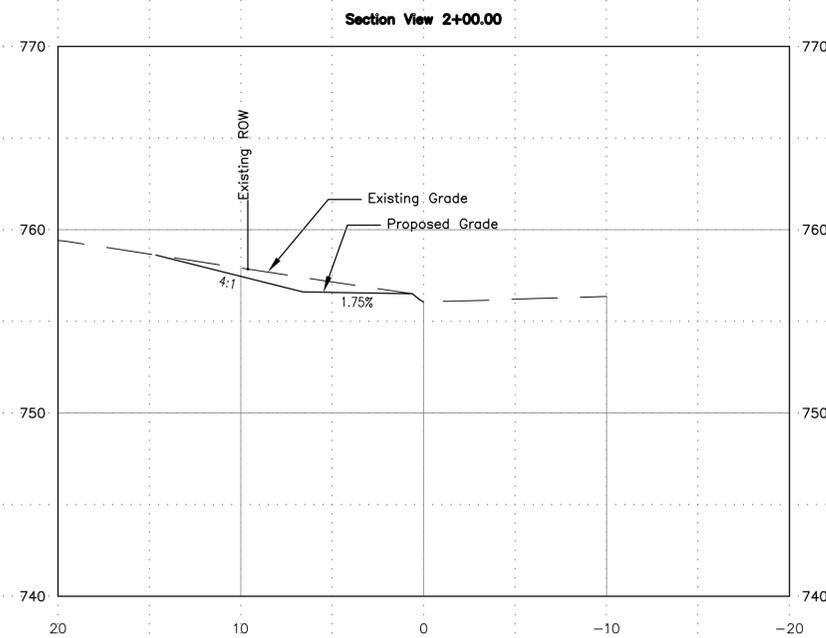
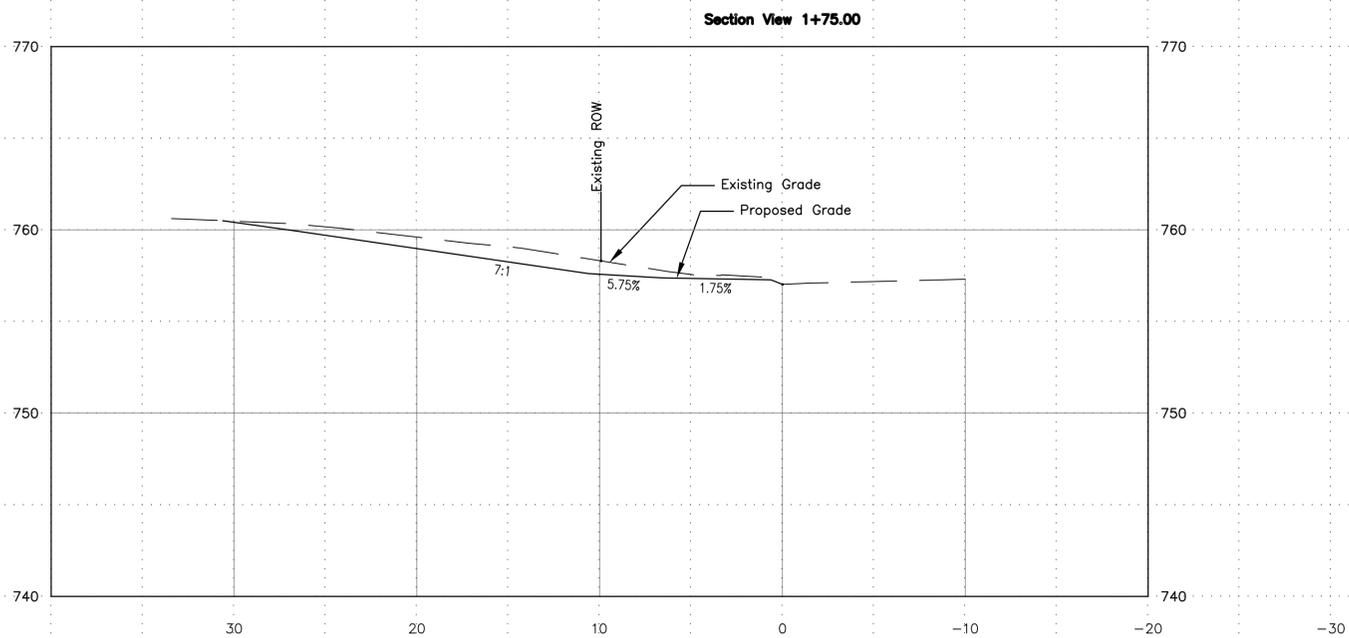
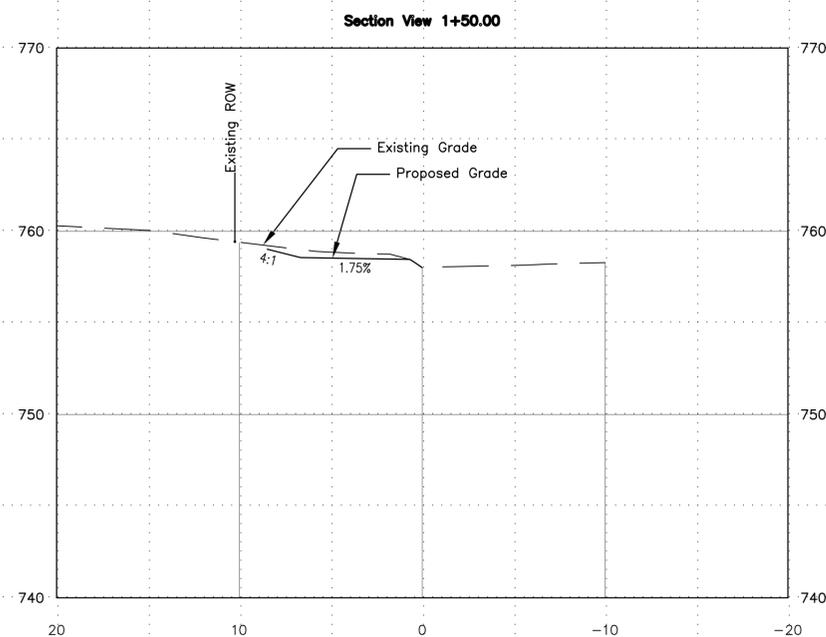
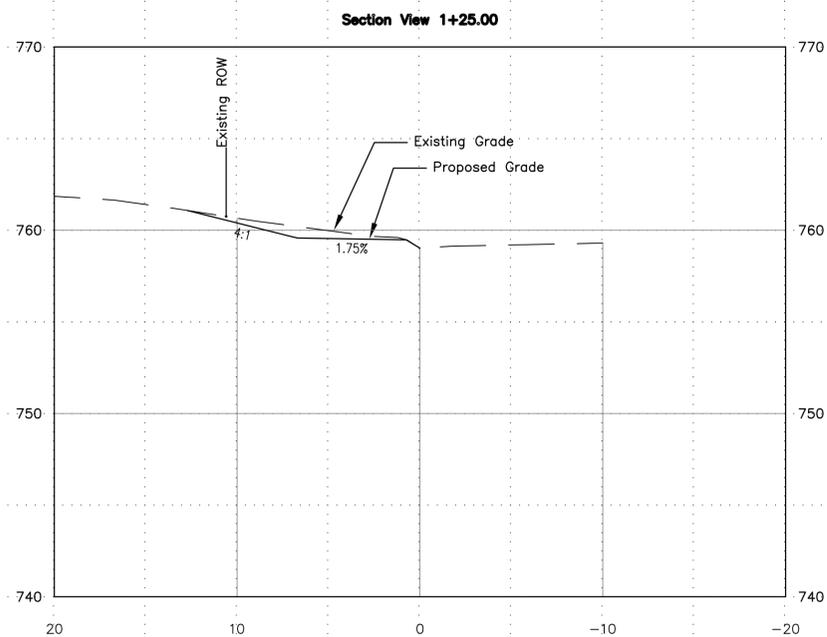
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Date:	January 9, 2018
Des.	K.L.H.
Dwn.	G.R.K.
Chk.	C.M.S.

Cross Sections
 C301

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SCALE:
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 VERTICAL 1"=5'



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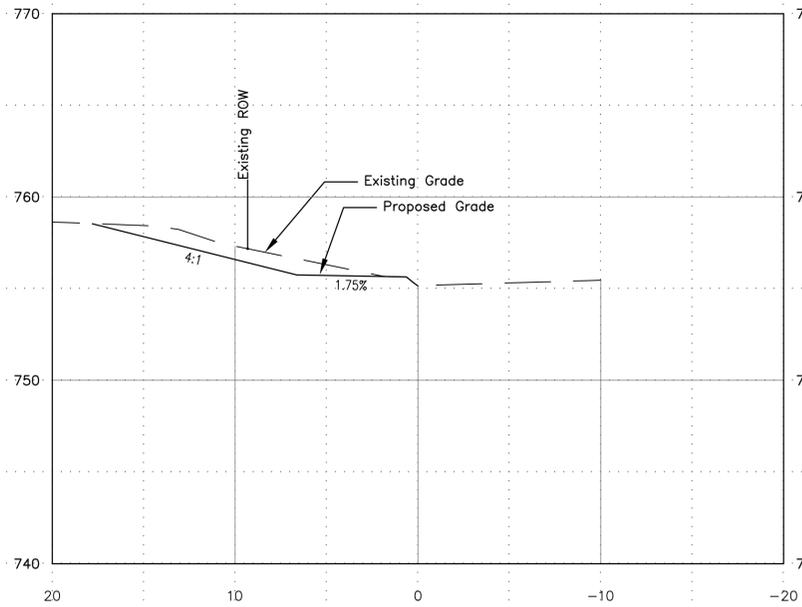
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Cross Sections
 C302

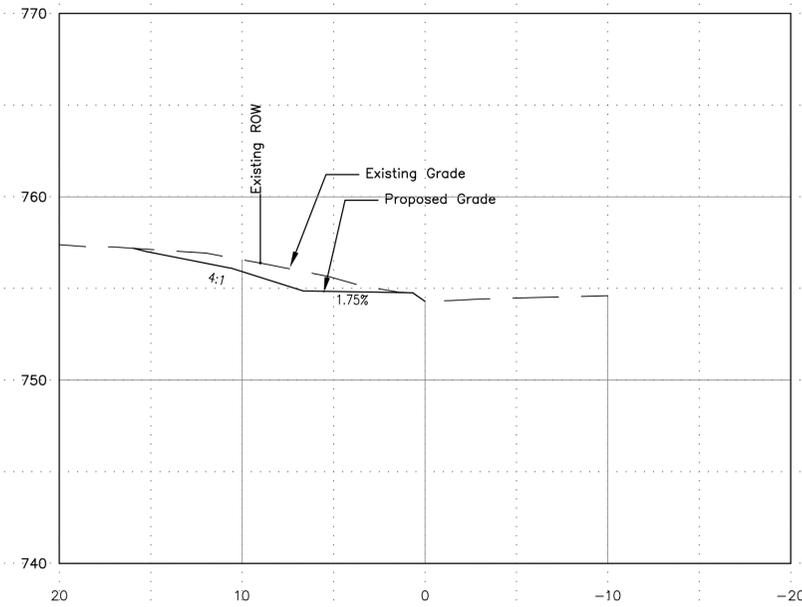
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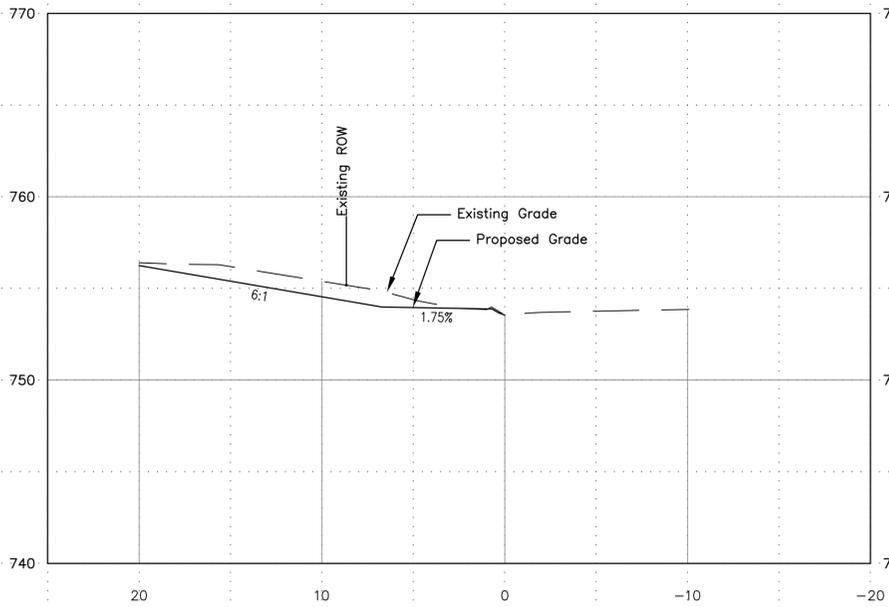
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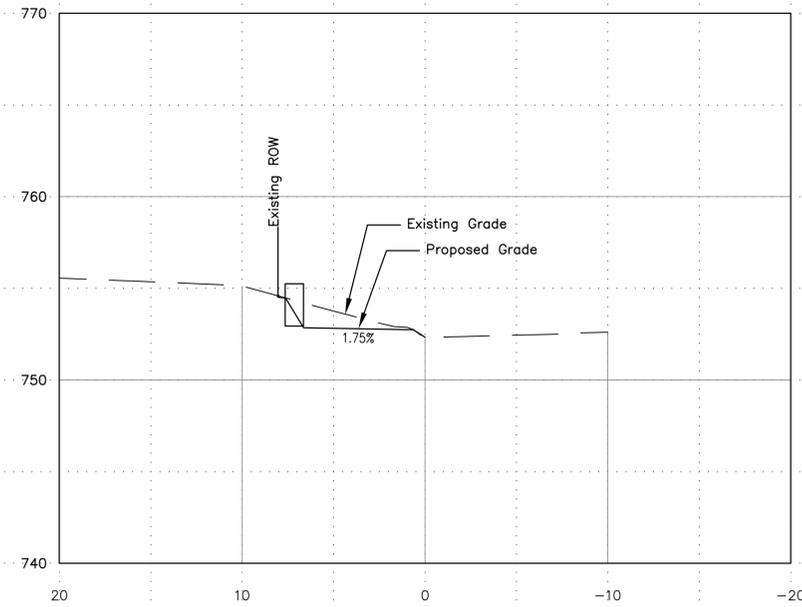
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Section View 2+75.00



Section View 3+25.00



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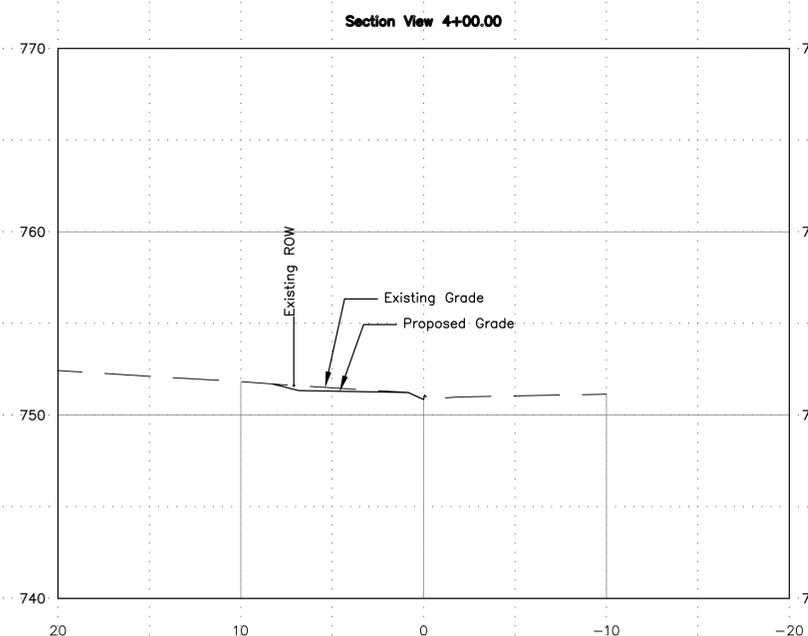
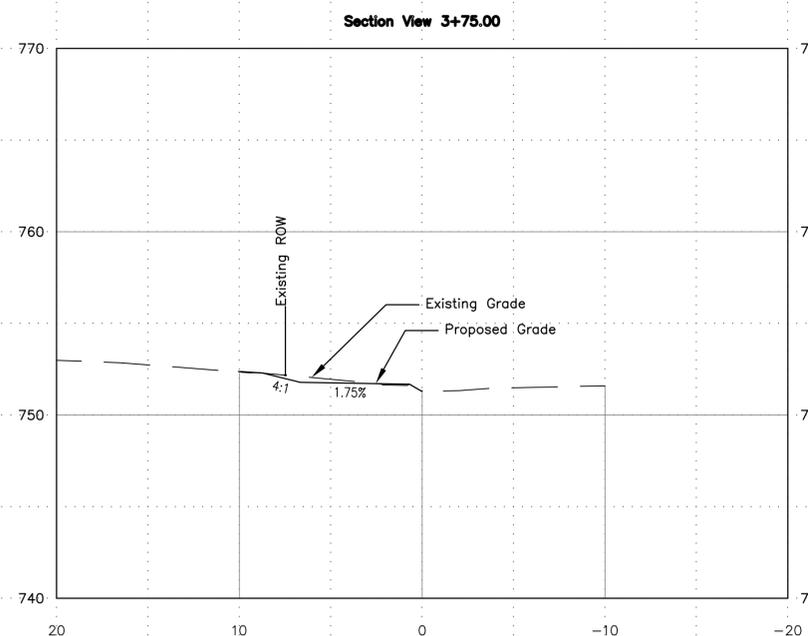
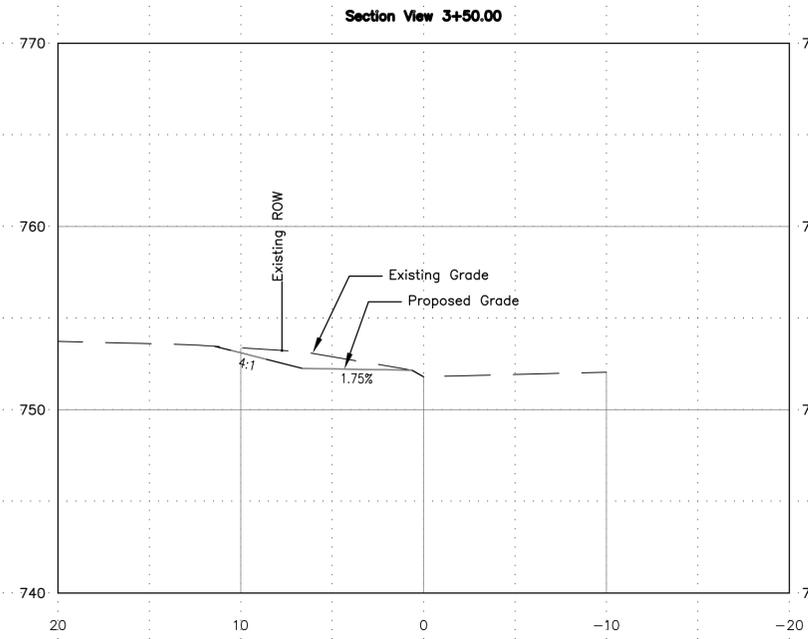
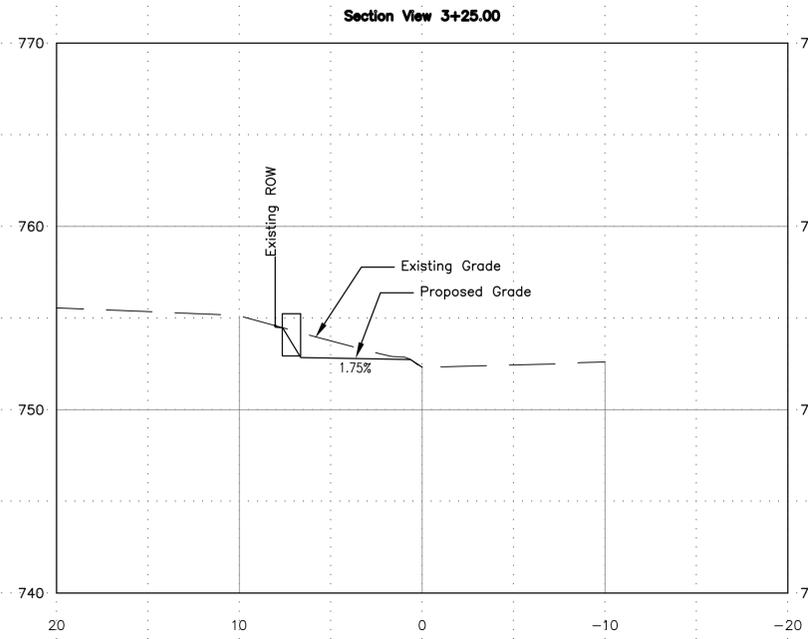
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Chk.	C.M.S.

Cross Sections
 C303

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SCALE:
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 VERTICAL 1"=5'



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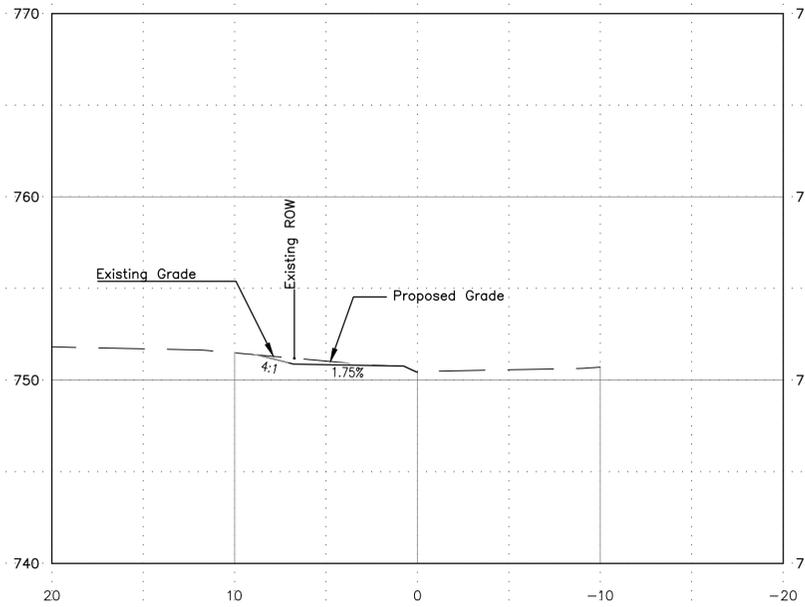
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Cross Sections
 C304

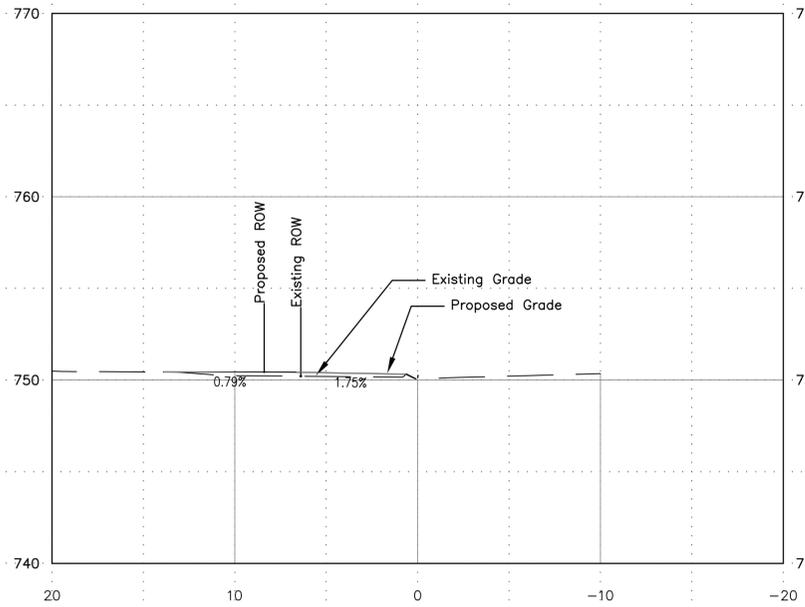
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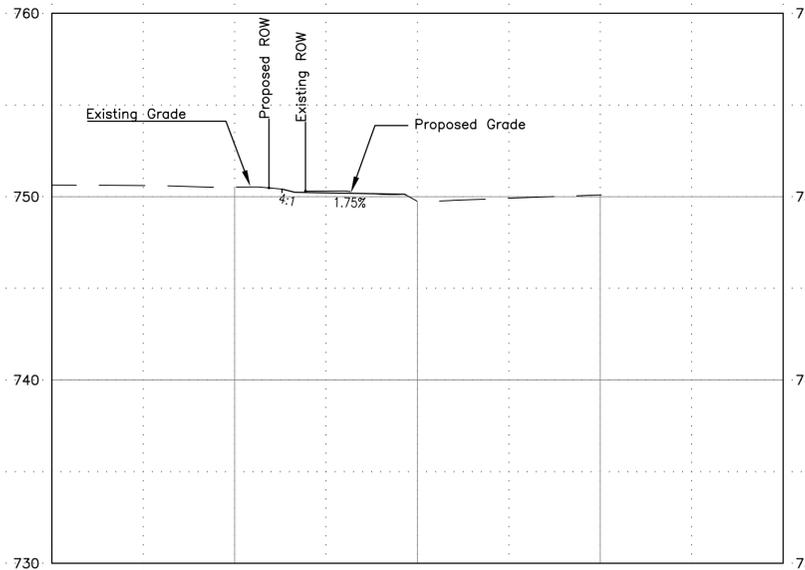
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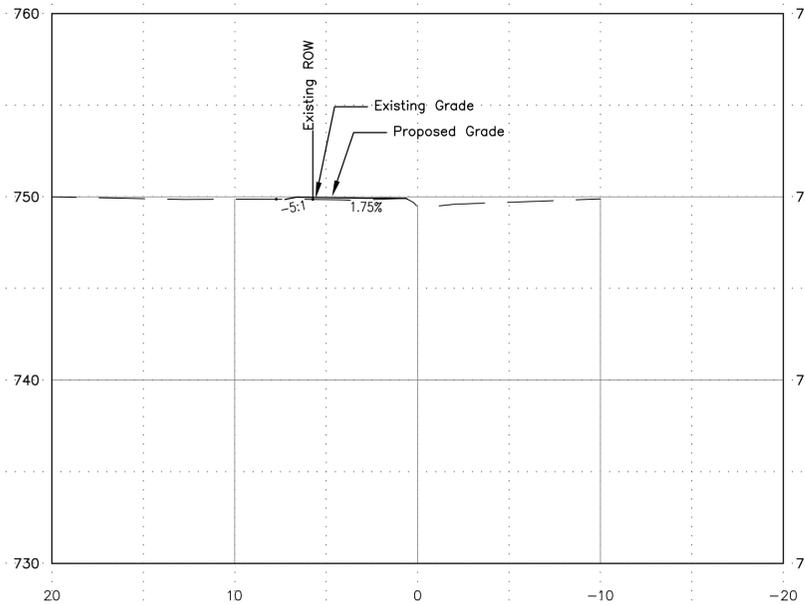
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Section View 4+75.00



Section View 5+00.00



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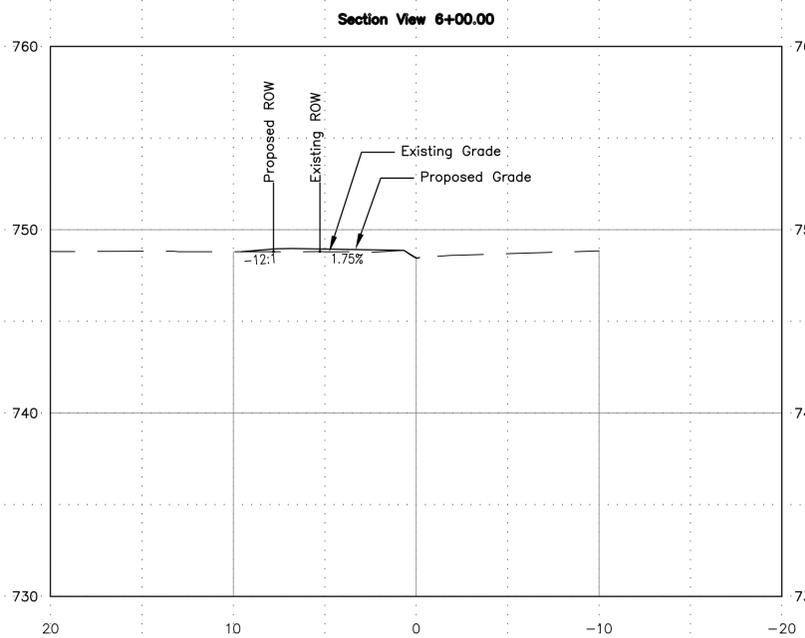
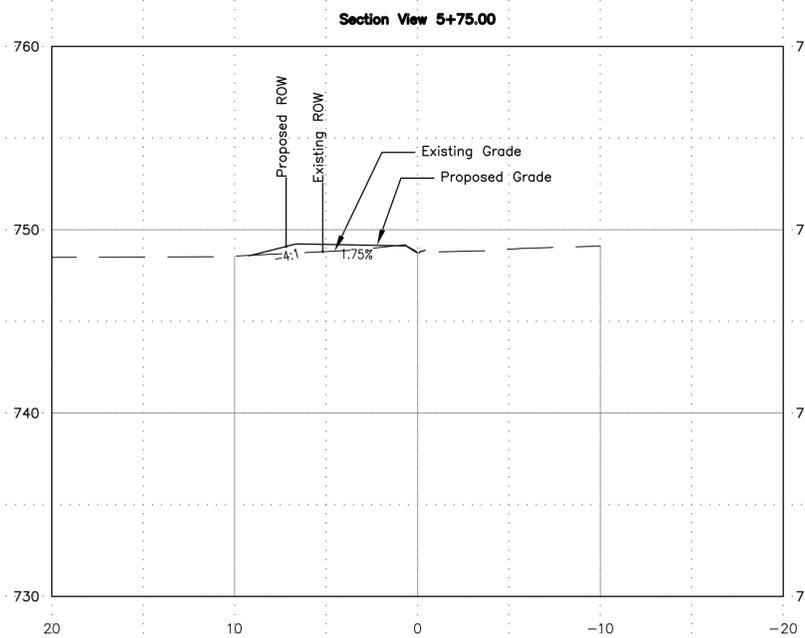
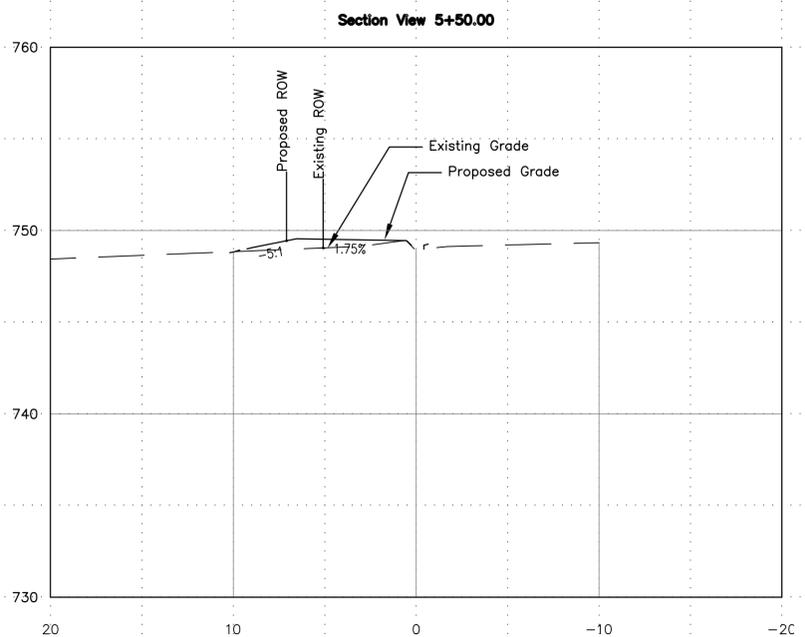
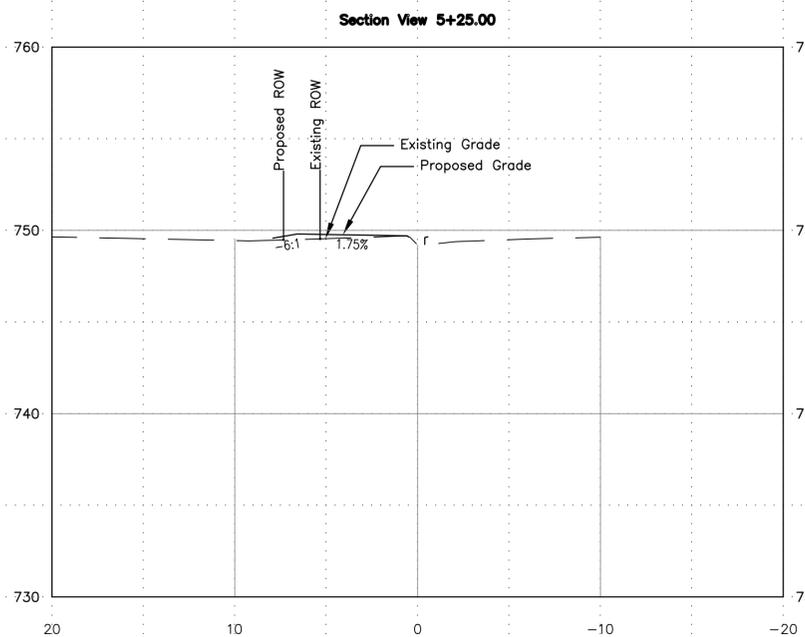
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Cross Sections
 C305

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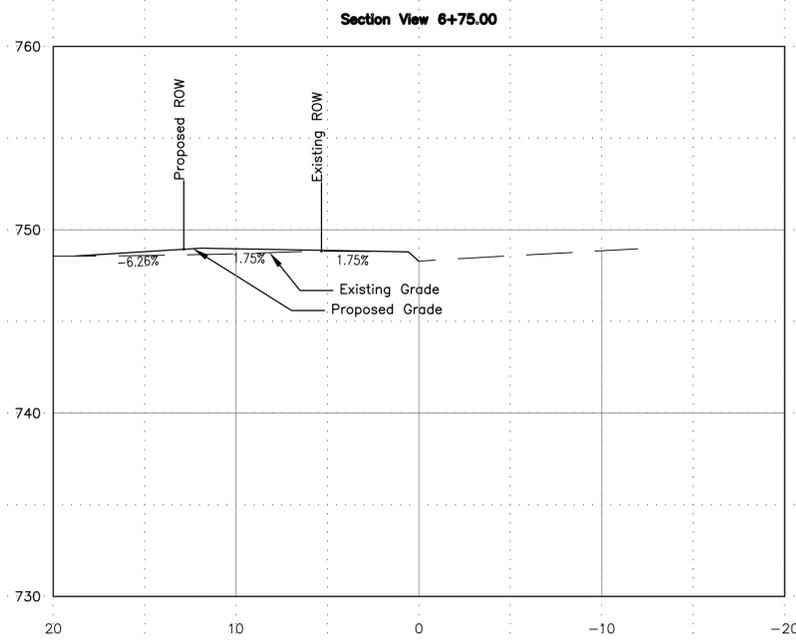
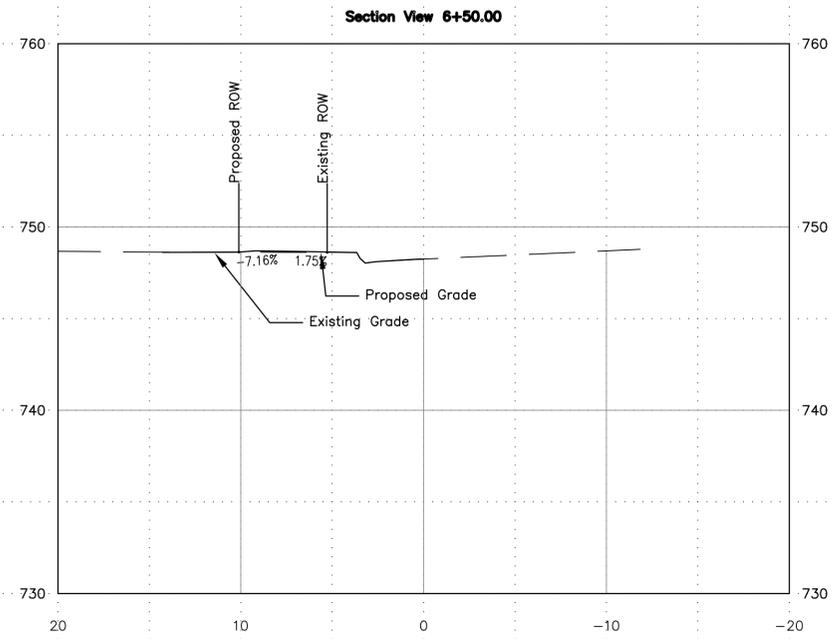
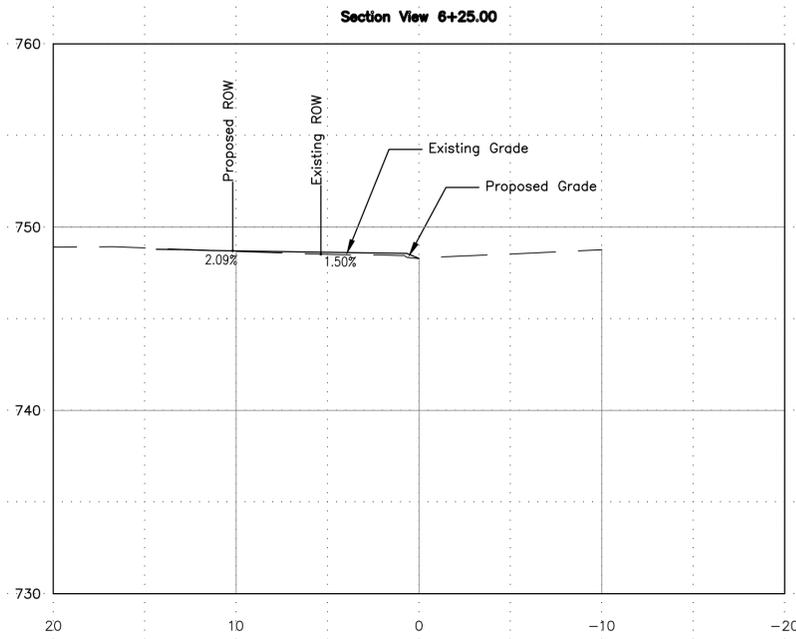
CHRISTOPHER M. SANDER
 PE 2001004568
 JANUARY 9, 2018

File No. 80816103
 Scale: As Shown
 Date: January 9, 2018
 Des. K.L.H.
 Dwn. G.R.K.
 Chk. C.M.S.

Cross Sections
 C306

p:\c306 - structure\80816103-00_c306 - oakland gravel sw\80816103-oakland gravel plans.dwg

SCALE:
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



No.	Date	By	Revision

OAKLAND GRAVEL
 RD. SW - BLUE
 RIDGE TO EDRLS

City of Columbia, Missouri
 Department of Public Works



building strong communities.
 1901 Pennsylvania Drive
 Columbia, MO 65202
 P 573-814-1558
 F 573-814-1128

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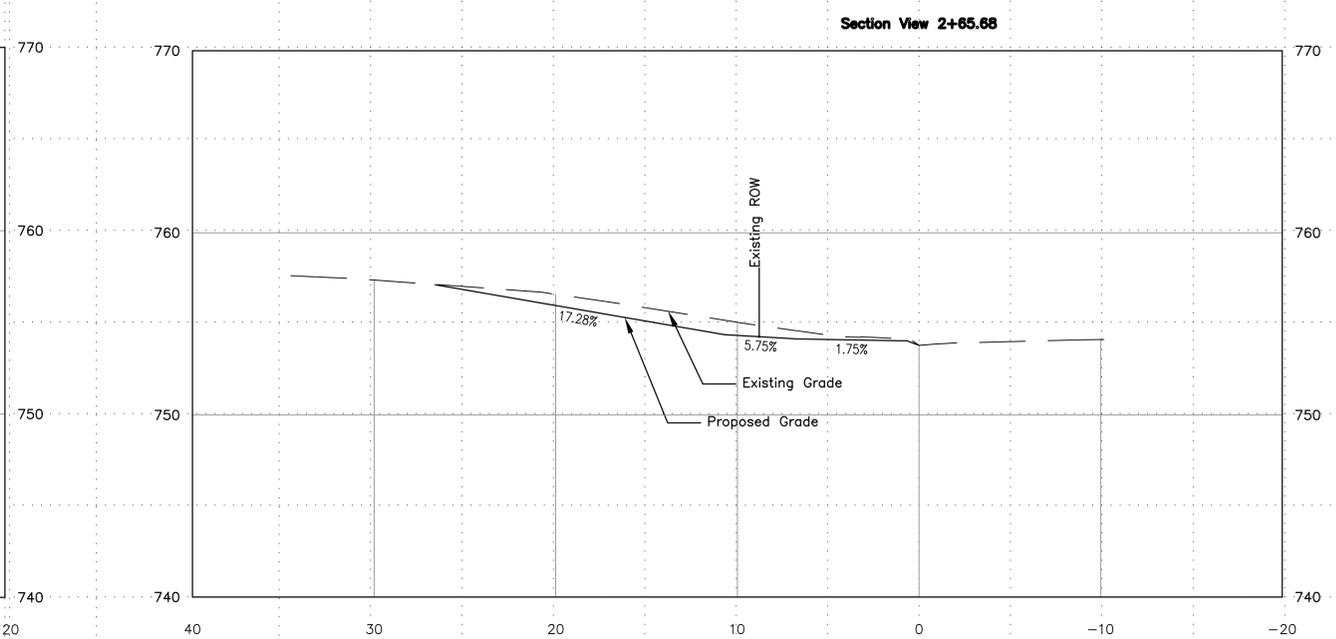
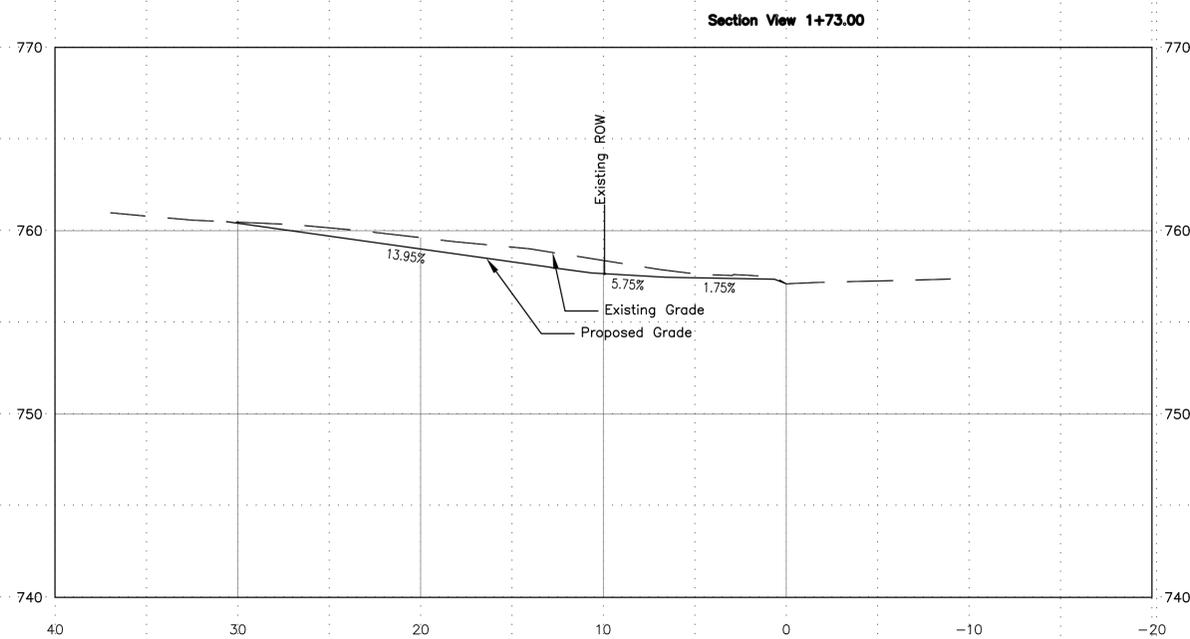
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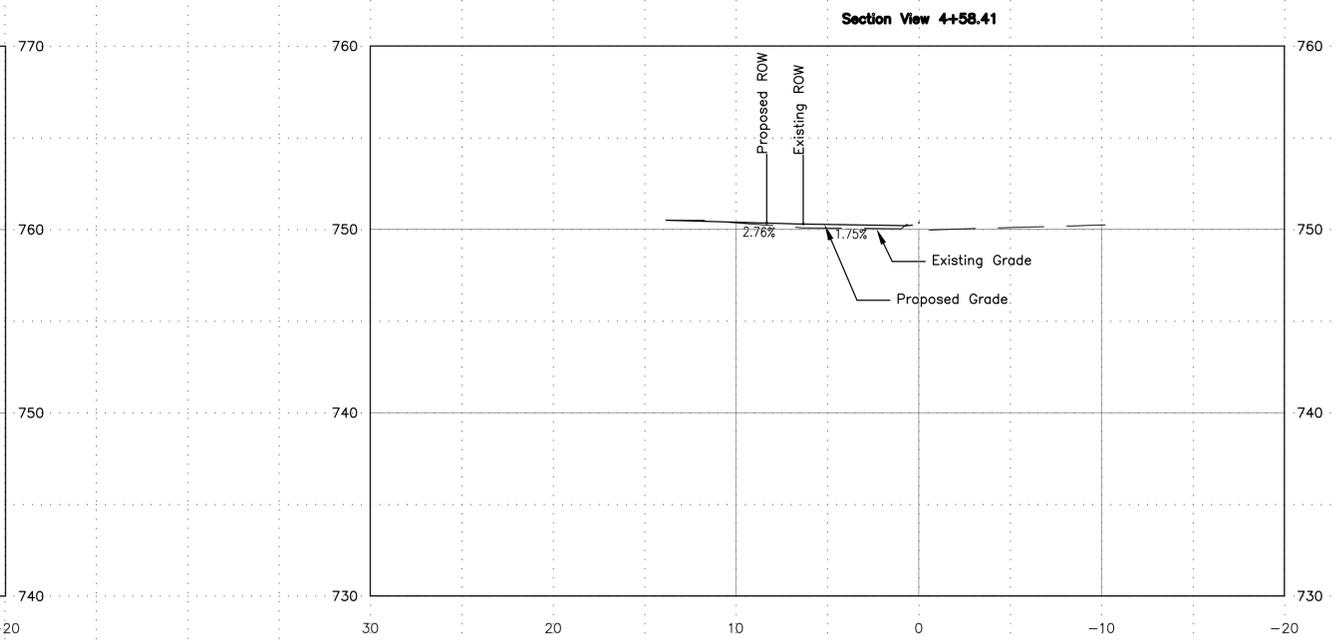
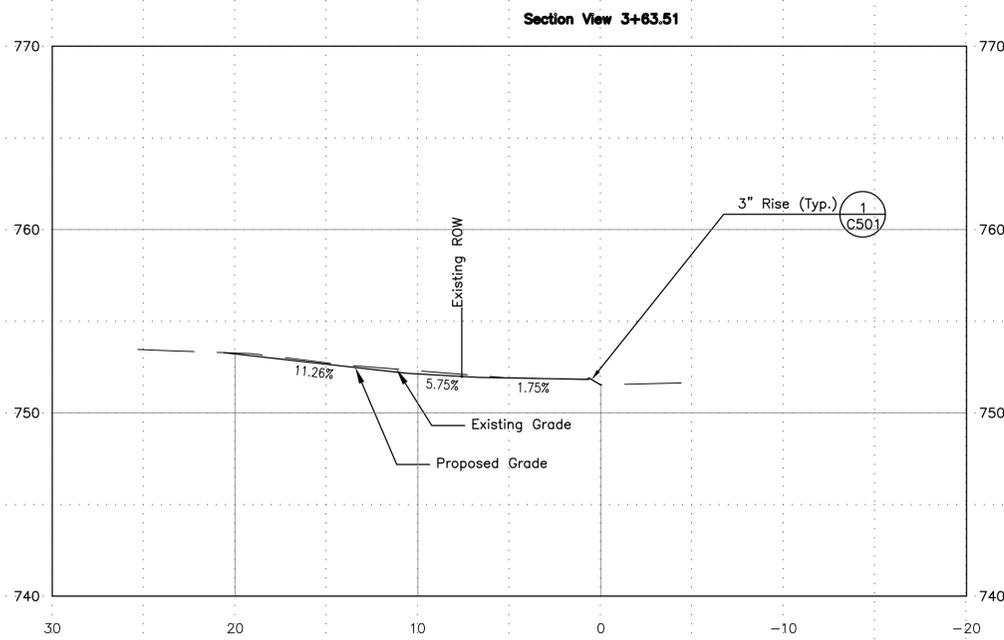
Cross Sections
 C307

p:\c307 - structure\80816103-00 - cp - pm - oakland gravel sw.dwg 2018/01/03 - oakland gravel plans.dwg

SCALE:
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



DRIVEWAY PROFILES



No.	Date	By	Revision

OAKLAND GRAVEL
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City of Columbia, Missouri
 Department of Public Works

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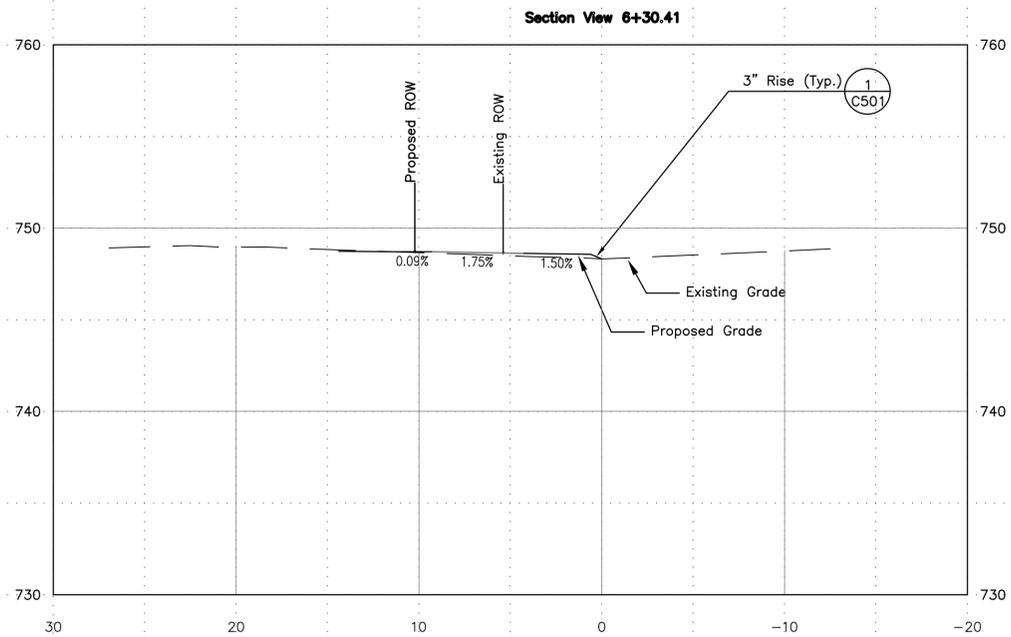
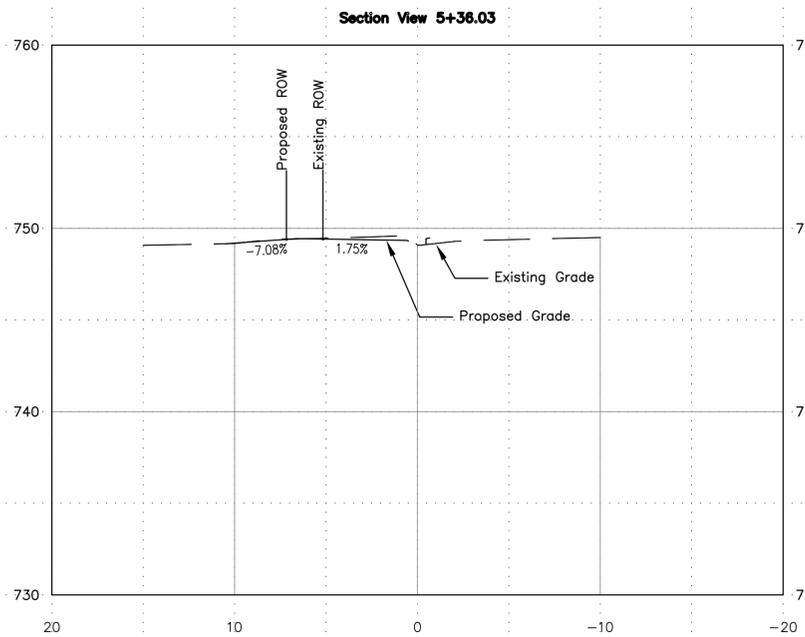
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 JANUARY 9, 2018

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Date:	January 9, 2018
Des.:	K.L.H.
Dwn.:	G.R.K.
Chk.:	C.M.S.

Cross Sections
 C308

p:\c308 - structure\80816103-00_c308.plt - oakland gravel sw\dwg\80816103-oakland gravel plans.dwg

SCALE:
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



DRIVEWAY PROFILES

No.	Date	By	Revision

OAKLAND GRAVEL
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 RIDGE TO EDGIS

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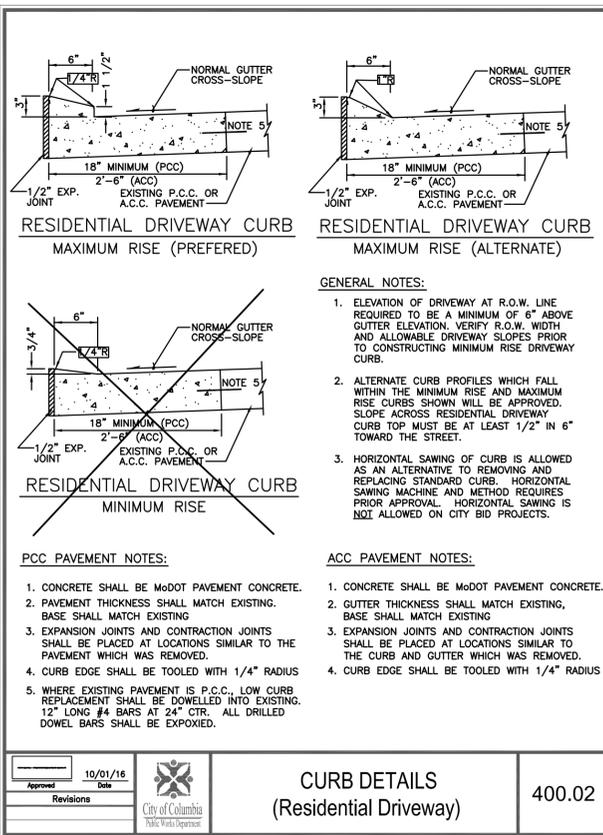
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Chk. C.M.S.

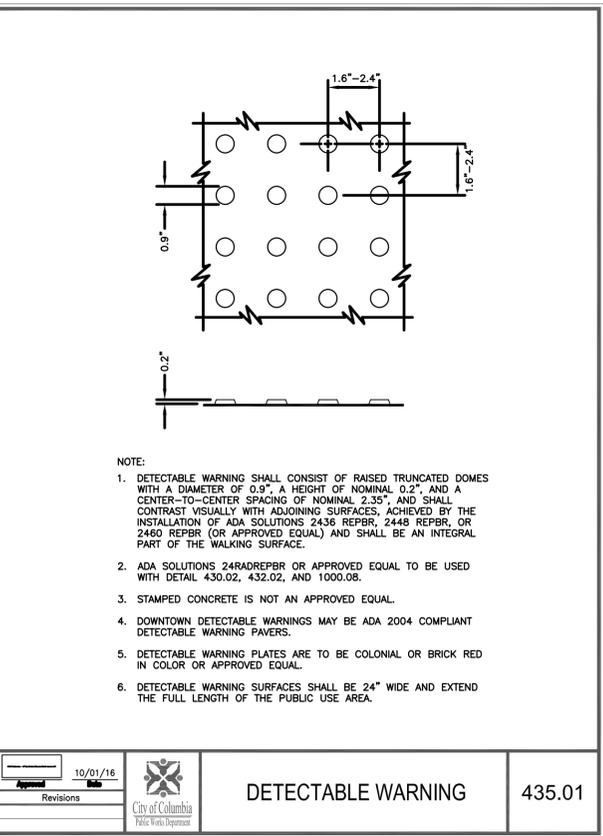
Cross Sections

C309

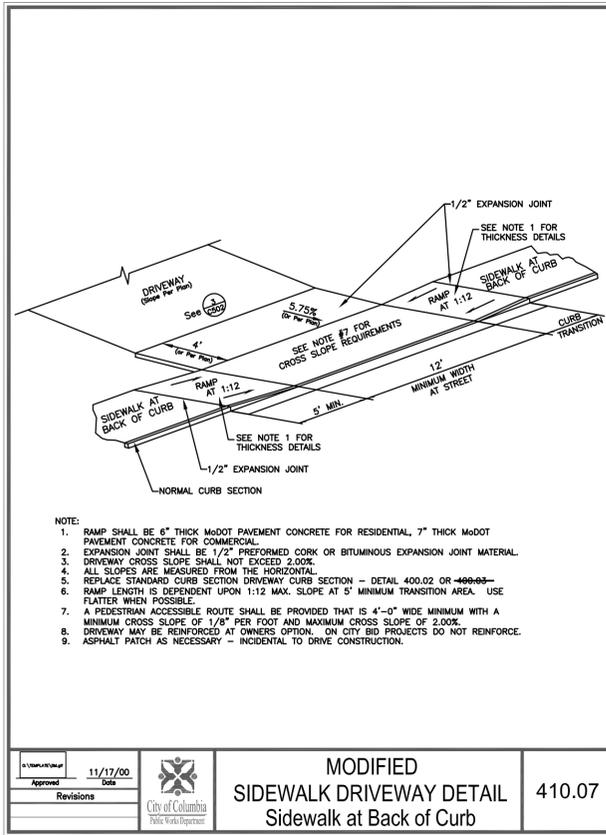
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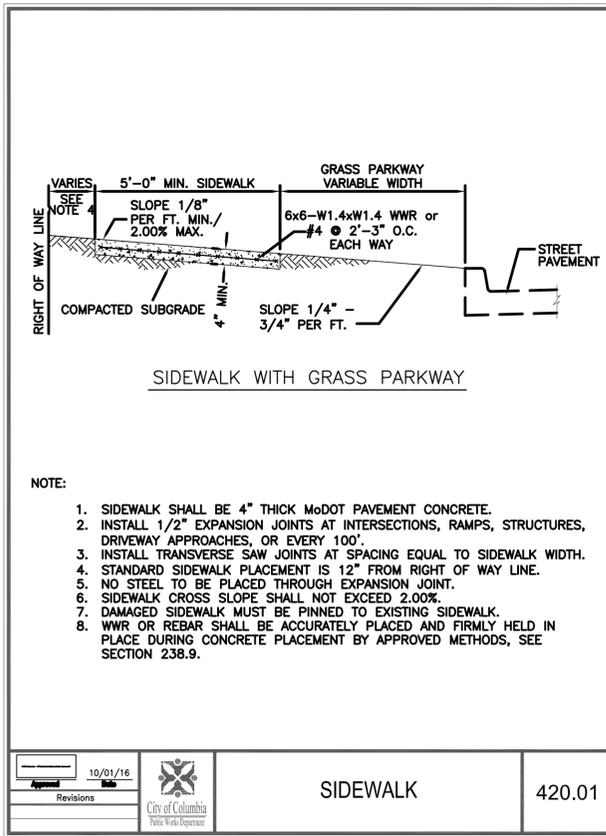
1 CURB DETAILS
C501 N.T.S. (Residential Driveway)



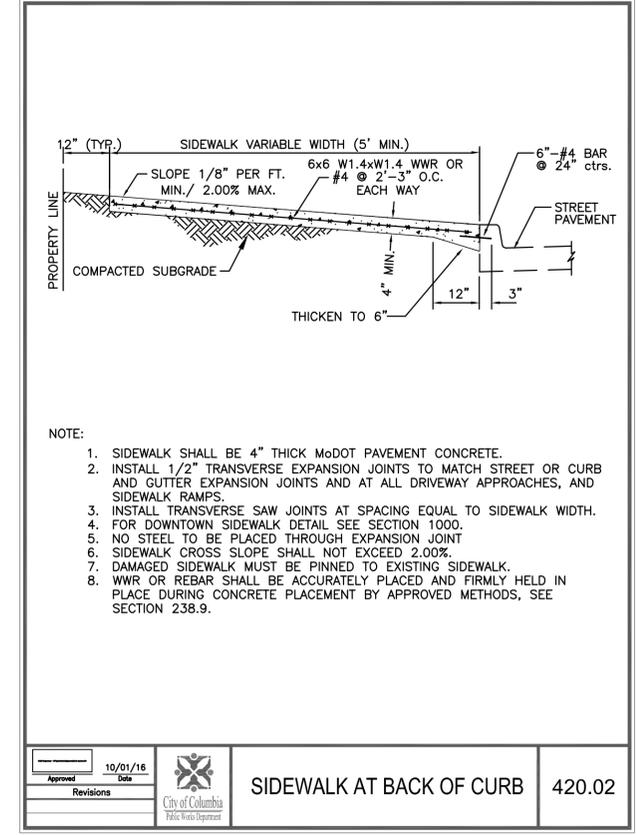
4 DETECTABLE WARNING
C501 N.T.S.



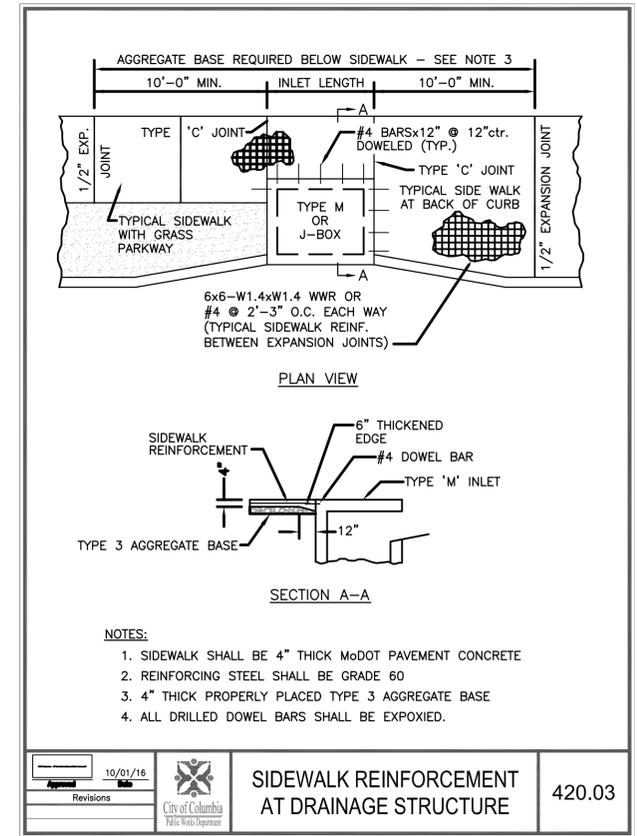
2 SIDEWALK DRIVEWAY DETAIL
C501 N.T.S. Sidewalk at Back of Curb



5 SIDEWALK
C501 N.T.S.



3 SIDEWALK AT BACK OF CURB
C501 N.T.S.



6 SIDEWALK REINFORCEMENT
C501 N.T.S. AT DRAINAGE STRUCTURE

Revision	
By	
Date	
No.	

OAKLAND GRAVEL
RD. SW - BLUE
RIDGE TO EDRIS

City of Columbia, Missouri
Department of Public Works

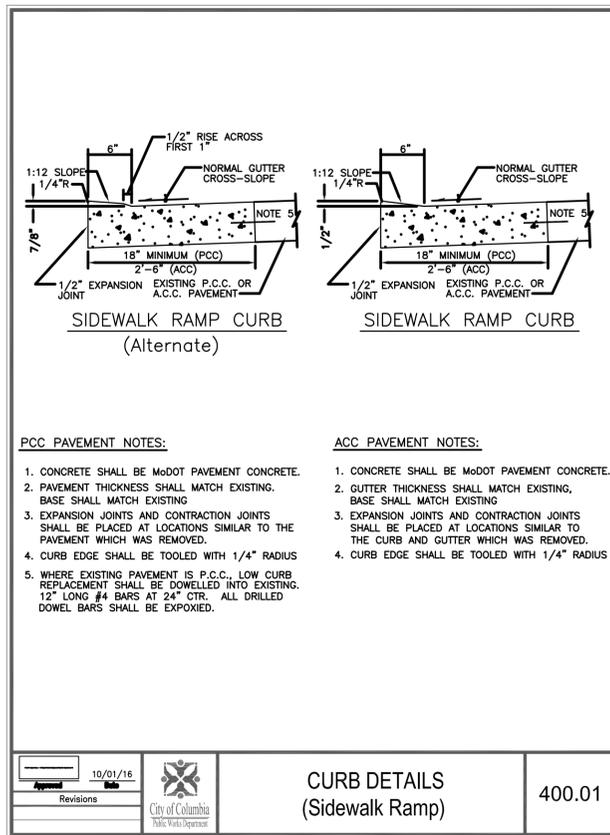
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P 573-814-1568
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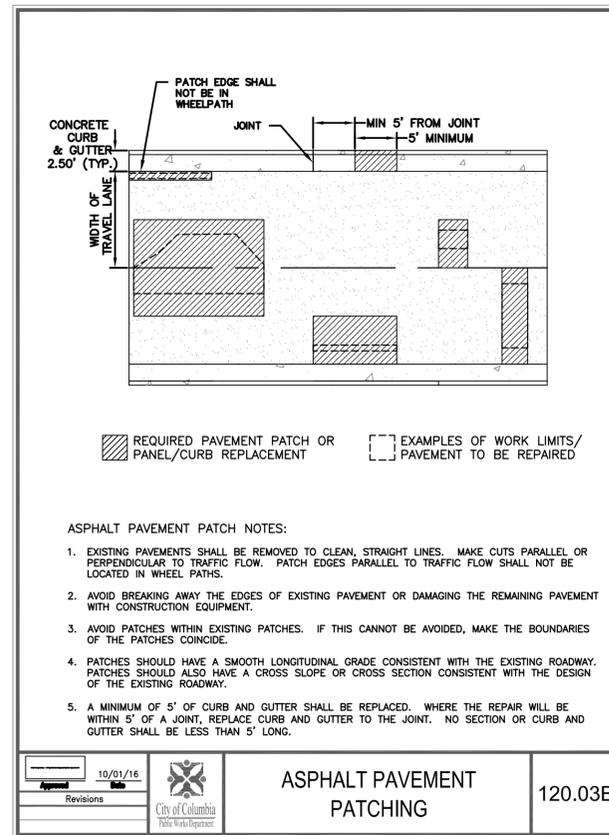
Sheet
C501



- PCC PAVEMENT NOTES:**
1. CONCRETE SHALL BE MODOT PAVEMENT CONCRETE.
 2. PAVEMENT THICKNESS SHALL MATCH EXISTING. BASE SHALL MATCH EXISTING.
 3. EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE PAVEMENT WHICH WAS REMOVED.
 4. CURB EDGE SHALL BE TOOLED WITH 1/4\"/>
- ACC PAVEMENT NOTES:**
1. CONCRETE SHALL BE MODOT PAVEMENT CONCRETE.
 2. GUTTER THICKNESS SHALL MATCH EXISTING. BASE SHALL MATCH EXISTING.
 3. EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE CURB AND GUTTER WHICH WAS REMOVED.
 4. CURB EDGE SHALL BE TOOLED WITH 1/4\"/>

10/01/16	Revisions	City of Columbia Public Works Department	CURB DETAILS (Sidewalk Ramp)	400.01
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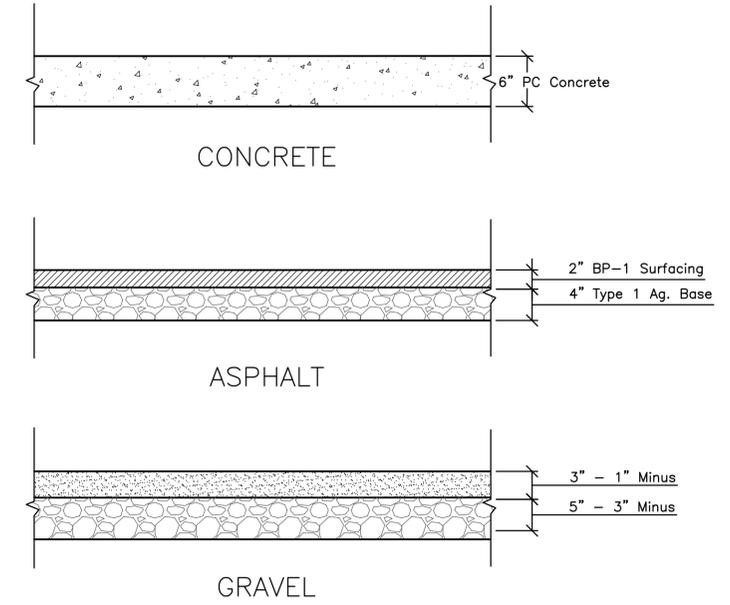
1 CURB DETAILS
C502 N.T.S. (Sidewalk Ramp)



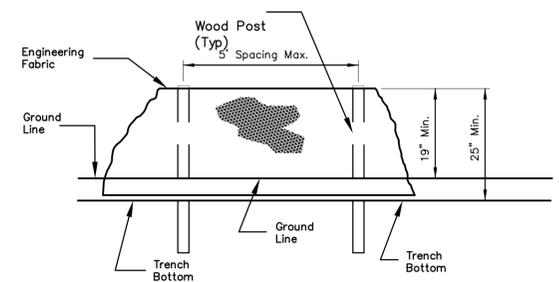
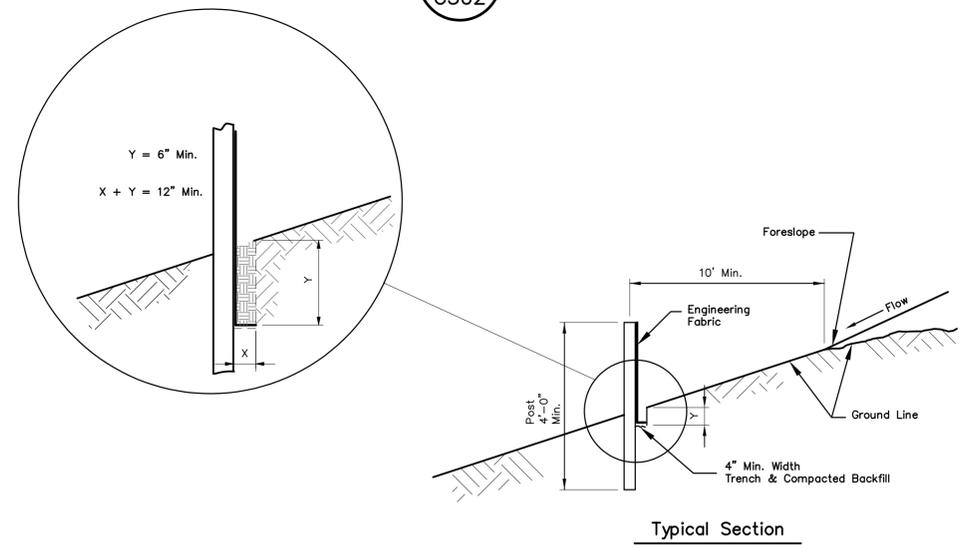
- ASPHALT PAVEMENT PATCH NOTES:**
1. EXISTING PAVEMENTS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES. MAKE CUTS PARALLEL OR PERPENDICULAR TO TRAFFIC FLOW. PATCH EDGES PARALLEL TO TRAFFIC FLOW SHALL NOT BE LOCATED IN WHEEL PATHS.
 2. AVOID BREAKING AWAY THE EDGES OF EXISTING PAVEMENT OR DAMAGING THE REMAINING PAVEMENT WITH CONSTRUCTION EQUIPMENT.
 3. AVOID PATCHES WITHIN EXISTING PATCHES. IF THIS CANNOT BE AVOIDED, MAKE THE BOUNDARIES OF THE PATCHES COINCIDE.
 4. PATCHES SHOULD HAVE A SMOOTH LONGITUDINAL GRADE CONSISTENT WITH THE EXISTING ROADWAY. PATCHES SHOULD ALSO HAVE A CROSS SLOPE OR CROSS SECTION CONSISTENT WITH THE DESIGN OF THE EXISTING ROADWAY.
 5. A MINIMUM OF 5' OF CURB AND GUTTER SHALL BE REPLACED. WHERE THE REPAIR WILL BE WITHIN 5' OF A JOINT, REPLACE CURB AND GUTTER TO THE JOINT. NO SECTION OR CURB AND GUTTER SHALL BE LESS THAN 5' LONG.

10/01/16	Revisions	City of Columbia Public Works Department	ASPHALT PAVEMENT PATCHING	120.03B
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2 ASPHALT PAVEMENT PATCHING
C502 N.T.S.



3 DRIVEWAY PAVEMENT DETAIL
C502 N.T.S.



- General Notes**
1. Minimum longitudinal splice overlap shall be 2' with a post at each end. Secure fabric to posts.
 2. Support fence required with silt fence around drop inlet or when used across ditch.
 3. Install around inlets and additional cut areas.

4 SILT FENCE
C502 N.T.S.

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C502

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