

UPPER REPUBLICAN NRD Rock Creek drop Structure #1 Dundy County, Nebraska



SITE MAP

TFG BENCHMARK

NORTHING	EASTING	ELEVATION	DESCRIPTION		
114,339.12	1,141,135.36	3,287.20	REBAR		
NEBRASKA STATE PLANE COORDINATES NAD83, NAVD88					

PRIOR TO CONSTRUCTION:

CALL : 811 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE, WATER, STORM SEWER, AND SANITARY SEWER UTILITIES. NOTE: EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO EXACTLY LOCATE AND PROTECT EACH EXISTING UTILITY BEFORE AND DURING ACTUAL CONSTRUCTION.





 PROJECT NO.
 SHEET NO.

 JRNRD-2017-01
 1

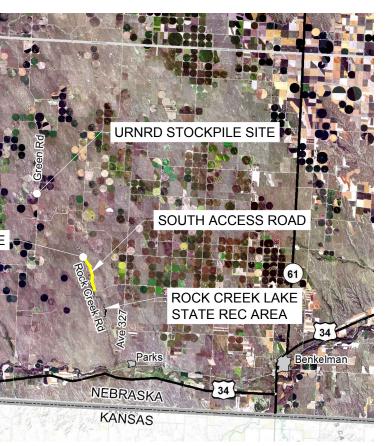
 Date:
 07-25-2018

 Drawn:
 STAF

 Scale:
 not to scale

 Checked:
 RJ

SHT #	
1	COVER
2	GENERAL NOTES / SCHEDULE OF QUANTITIES
3	PLAN AND PROFILE
4	DETAIL 1
5	DETAIL 2



VICINITY MAP



COVER



GENERAL CONSTRUCTION NOTES:

- 1. DIAL BEFORE YOU DIG. CALL 1-800-331-5666 FOR LOCATION OF UNDERGROUND TELEPHONE, ELECTRIC, GAS MAINS, CABLE, AND LOCAL UTILITIES.
- 2. A PERMANENT EASEMENT EXTENDS OUT 75 FEET ON EACH SIDE OF THE CENTERLINE OF THE CHANNEL. ALL WORK SHALL BE PERFORMED WITHIN THE LIMITS OF THE PERMANENT EASEMENT. CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THESE LIMITS. THE CONTRACTOR ALSO MAY ACCESS AND EGRESS THE CONSTRUCTION SITE AT TWO LOCATIONS PROVIDED BY THE URNRD (REFER TO COVER SHEET).
- 3. LOCATE AND PRESERVE ALL PROJECT CONTROL POINTS.
- 4. INSTALL CONSTRUCTION SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION AND MAINTAIN THROUGHOUT THE COMPLETION OF THE PROJECT, AS REQUIRED TO PROTECT STREAM AND IDENTIFIED SENSITIVE AREAS.
- 5. AREA FOR SPOIL/BORROW SHALL BE FINISH GRADED SO THAT THE MAXIMUM SLOPE IS NO STEEPER THAN 5:1. SPOIL SHALL BE PLACED IN WHERE INDICATED ON SHEET 1. EXISTING TERRAIN AND DRAINAGE PATTERNS SHALL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICAL. TERRACES SHALL BE CONSTRUCTED EVERY 100 FEET OF SLOPE DISTANCE (MIN.) IN SPOIL/BORROW AREAS.
- 6. TEMPORARY STREAM CROSSINGS AND CONSTRUCTION/HAUL ROADS TO BE REMOVED AT THE COMPLETION OF THE PROJECT. ALL AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.
- 7. THE BROKEN CONCRETE RIPRAP AND #2 CRUSHED CONCRETE WILL BE SUPPLIED BY THE URNRD AT NO CHARGE. THE MATERIAL IS STOCKPILED ABOUT 8 MILES NORTHWEST OF THE CONSTRUCTION SITE. ACCESS TO THE SITE MAY BE OBTAINED FROM THE SOUTH. THE HAUL DISTANCE USING SOUTH ACCESS ROAD IS ABOUT 30 MILES. IT IS RECOMMENDED THAT THE CONTRACTOR VIEW THE HAUL ROUTE BEFORE BIDDING ON THE PROJECT.
- 8. CONCRETE RUBBLE LOCATED WITHIN THE PROJECT SITE SHALL BE REMOVED AND SALVAGED. SALVAGED MATERIAL THAT MEETS THE SPECIFIED GRADATION OF THE MATERIALS SPECIFICATION SHALL BE USED UNDER BID ITEM 7. SUITABLE MATERIAL SHALL BE REASONABLY WELL GRADED FROM LARGEST TO SMALLEST, AND SHALL BE SIZED SUCH THAT NO INDIVIDUAL PIECE WILL HAVE A VOLUME GREATER THAN 3.5 CUBIC FEET, NO MORE THAN 10 PERCENT OF THE RIPRAP PIECES SHALL HAVE A VOLUME OF LESS THAN 30 CUBIC INCHES, FIFTY PERCENT OF THE RIPRAP SHALL BE COMPOSED OF PIECES WITH A VOLUME LESS THAN 1,220 CUBIC INCHES, AND EACH PIECE SHALL HAVE NO DIMENSION GREATER THAN TIMES ITS LEAST DIMENSION. REBAR AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF AT THE URNRD'S STOCKPILE LOCATION OR OTHER APPROVED OFFSITE LOCATION.

SEEDING / PROTECTION NOTES:

- 1. DISTURBED CHANNEL BANKS SHALL BE SEEDED WITH A HIGH PLAINS RDB MIXTURE AND PROTECTED WITH EROSION CONTROL BLANKET.
- 2. SPOIL AREAS, HAUL ROADS AND OTHER DISTURBED AREAS WITH A MAXIMUM SLOPE NO STEEPER THAN 5:1 SHALL BE SEEDED WITH A HIGH PLAINS FORESLOPE, DITCH AND BACKSLOPE (RDB) MIXTURE AND MULCHED.

HIGH PLAINS RDB MIXTURE

Species	Minimum Purity (percent)	Lbs. of PLS/acre	
Canada wildrye * - Mandan, Nebraska native	85	4	
Slender wheatgrass	85	4	
Thickspike wheatgrass – Critana	85	4	
Western wheatgrass – Arriba, Barton, Flintlock, Rodan, Rosana	85	4	
Little bluestem – Camper, Cimarron, Pastura, Nebraska native	60	2.5	
Blue grama – NE, KS, CO, MN, SD	30	0.75	
Buffalograss - Bison, Cody, Sundancer, Texoka	80	2	
Sideoats grama - Butte, El Reno, Pierre	75	4	
Sand dropseed (Sporobolus cryptandrus)	90	0.3	
Purple prairie clover - inoculated	90	1	
Blue flax (Linum lewisii)	85	1.5	
Rocky Mountain bee plant (Cleome serrulata)	85	0.5	
Upright prairie coneflower (Ratibida columnifera)	85	1	
Mexican red hat (Ratibida columnifera, red)	85	1	
Oats or wheat (wheat in the fall)	90	14	

PLS (pure live seed) is a term used in the seed industry to describe the percentage of a quantity of seed that will germinate. It is a tool for comparing the quality of seed lots.

SCHEDULE OF QUANTITIES

BID ITEM ACTIVITY	UNIT	QUAN
1 MOBILIZATION / DEMOBILIZATION	LS	
2 CONSTRUCTION STAKING	LS	
3 EXCAVATION	CY	
4 EXCAVATION DISPOSAL	CY	
5 GRAVEL, IN PLACE	TON	
6 #2 CRUSHED CONCRETE BASE, IN PLACE	CY	
7 BROKEN CONCRETE RIPRAP OVER FILTER FABRIC, IN PLACE	CY	
8 REMOVE AND SALVAGE BROKEN CONCRETE RIPRAP	CY	
9 STEEL SHEET PILE, IN PLACE	SF	
10 REMOVE AND SALVAGE PIPE CULVERT	LS	
11 SEEDING	AC	
12 EROSION CONTROL BLANKET	SY	

DETAIL / SECTION SYMBOL:



1 - DETAIL / SECTION NO. 2 - SHEET NO. DETAIL / SECTION IS REFERENCED ON 3 - SHEET NO. DETAIL / SECTION IS DRAWN ON

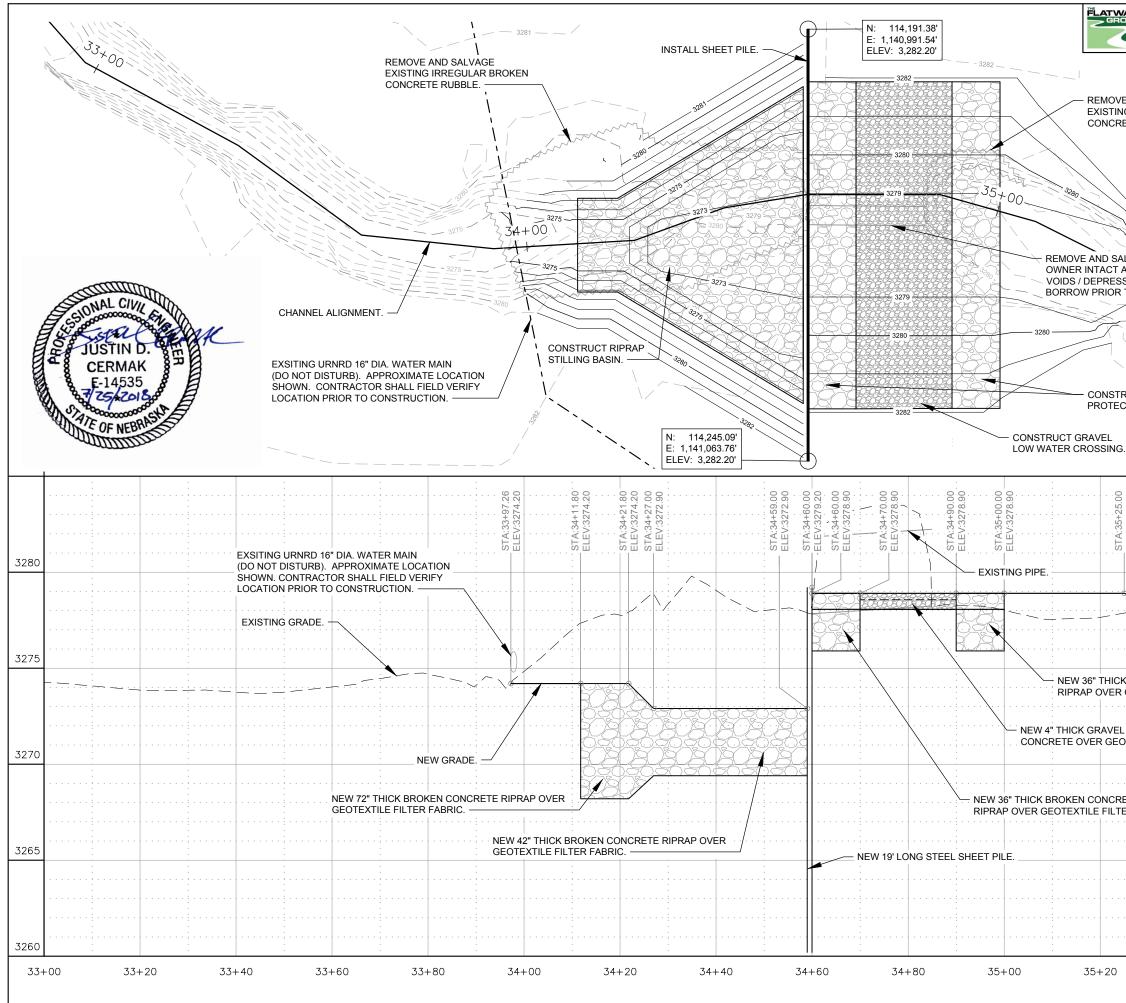
REPUBLICAN NRD

PRO.	IECT NO.	SHEE	T NO.
URNR	D-2017-01	2	
Date:	07-25-2018	Drawn:	STAFF
Scale:		Checked:	RJK
		Approved:	JDC

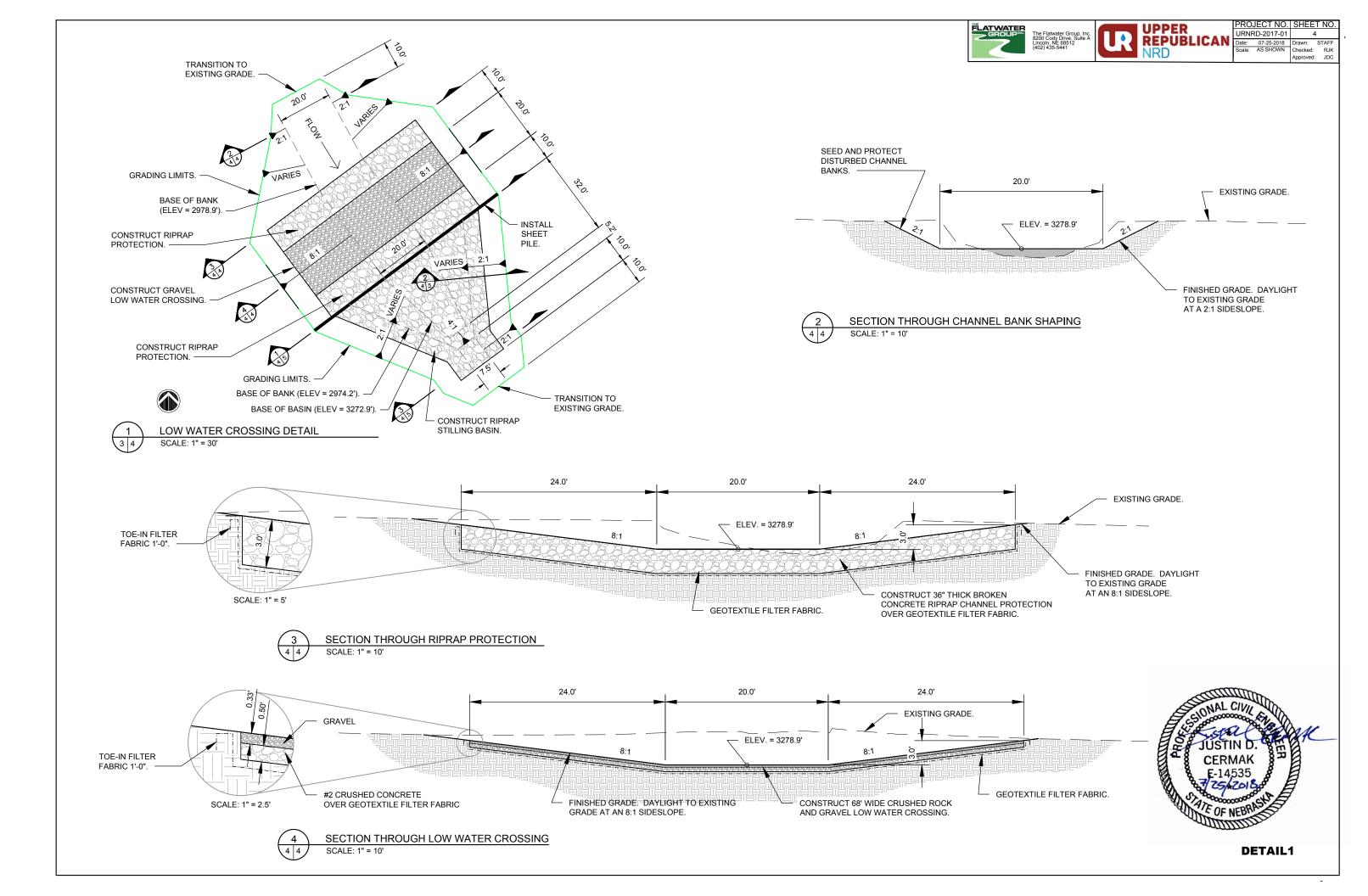
NTITY 1 1,062 1,062 25 28 465 230 1,710 1 1.0 356



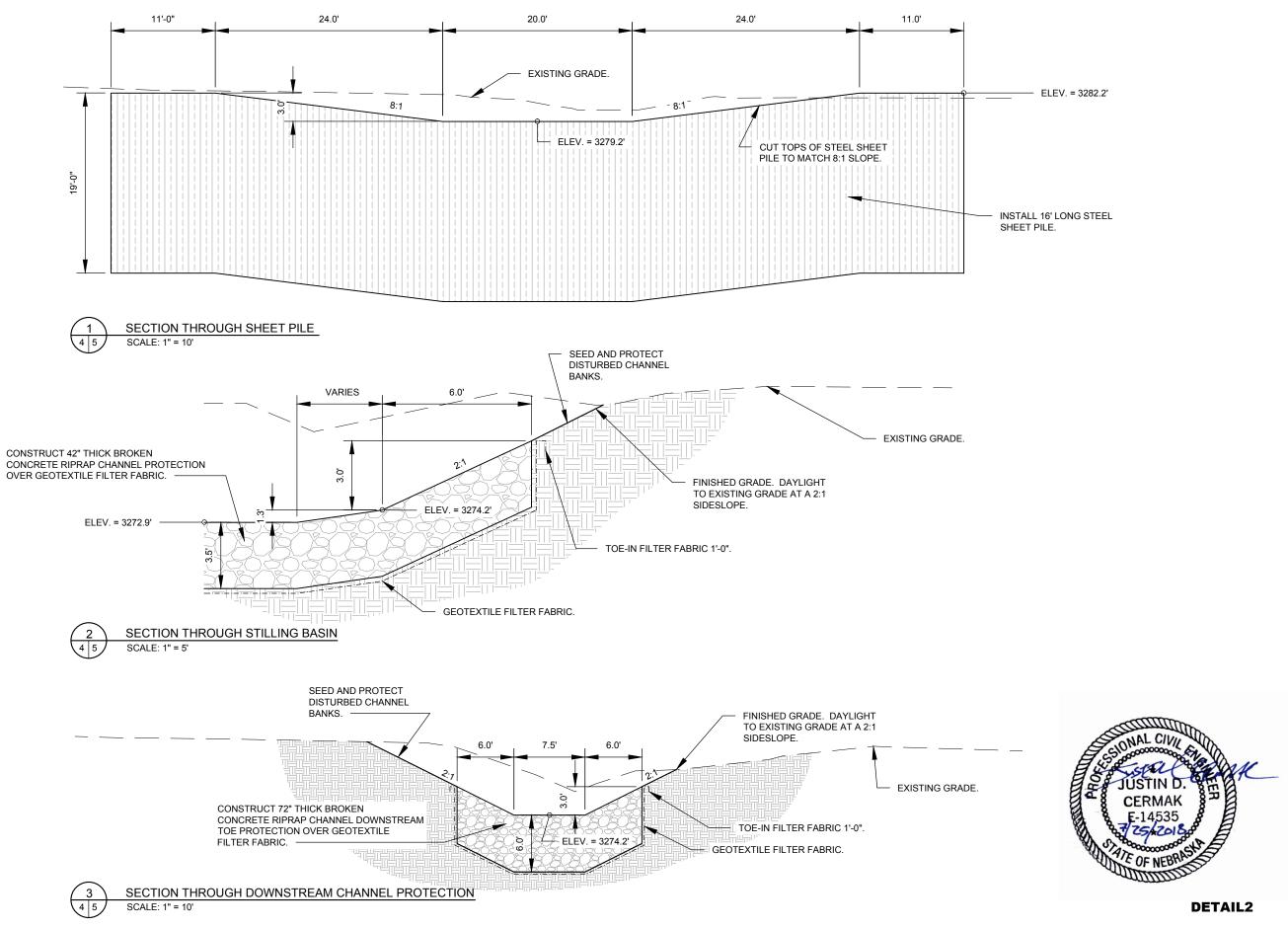
GENERAL NOTES / SCHEDULE OF QUANTITIES



The Flatwater Group, Inc.		UPPE	R	PROJECT NO. SHEET NO.			
The Flatwater Group, Inc. 8200 Cody Drive, Suite A Lincoln, NE 68512 (402) 435-5441		UPPER REPUBLICAN		URNRD-2017-01 3 Date: 07-25-2018 Drawn: STAFF			
(402) 435-5441		NRD		Horiz. Scale:	1" = 20'	Checked:	RJK
				Vert. Scale:	1" = 5'	Approved:	JDC
				1			
	20'		/ o	L	20'	,	
E AND SALVGAGE			/				
IG IRREGULAR BROKEN			SCALE	/	\ \		
ETE RUBBLE.		/			\		
\sim /					$\langle \cdot \rangle_{\tilde{a}}$		
\checkmark							
				\			
)			
\backslash		NOTE					
			REFER TO PL L ON SHEET 4				
		DETAI		•			
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
				328			
ALVAGE EXISTING 48" CMP ( AND UNDAMAGED. FILL AN				\			
SIONS IN SUBGRADE WITH		HCI ~~~0		``			
TO PLACING NEW RIPRAP.				\			
		, ,		1 1			
				1///			
			$\mathcal{L} \neq \mathcal{I} \rightarrow \mathcal{I}$				
					Ì		
		$\geq$			$\langle \rangle$	\	
					``	`\	
			/ \			\	
RUCT RIPRAP	·		``	<u> </u>	3640	\	
	328	30 — —		`t í	0	\	
				T AL	4)	\	
3282				$\langle \cdot \rangle \cdot \langle \cdot \rangle$	ĺ,	1	
	<u> </u>					<u>\</u>	
1		1	X	1 11 1	١	////	
: :			-				
					• • • • •		
ELEV:3278.90							
ε.							
			-				
/ NEW GRADE.			EXISTING GR				2000
							3280
			-				
		· · · · · · · · · · · · · · · · · · ·					
	`	· / · · ·					
			-				
			-				3275
						- F	
K BROKEN CONCRETE	<u> </u>	.					
GEOTEXTILE FILTER FABRI	C.		-		-		
					:		
OVER 6" THICK #2 CRUSHE	D	.	. :		· · · ·		
DTEXTILE FILTER FABRIC.							
						3	3270
						- F	
ETE					-		
ER FABRIC.					: · · · ·		
					:		
						3	3265
		_					
		.	· · · · · · · · · · · · · · · · · · ·				
					-		
					:		
							3260
					-		
35+40	35	5+60 _	35+	80		_36+0	00
		P	LAN ANI	D PRO	FILI	E	









PROJECT NO. SHEET NO. JRNRD-2017-01 5 Date: 07-25-2018 Drawn: STAFF Scale: AS SHOWN Checked: RJK Checked: RJK Approved: JDC