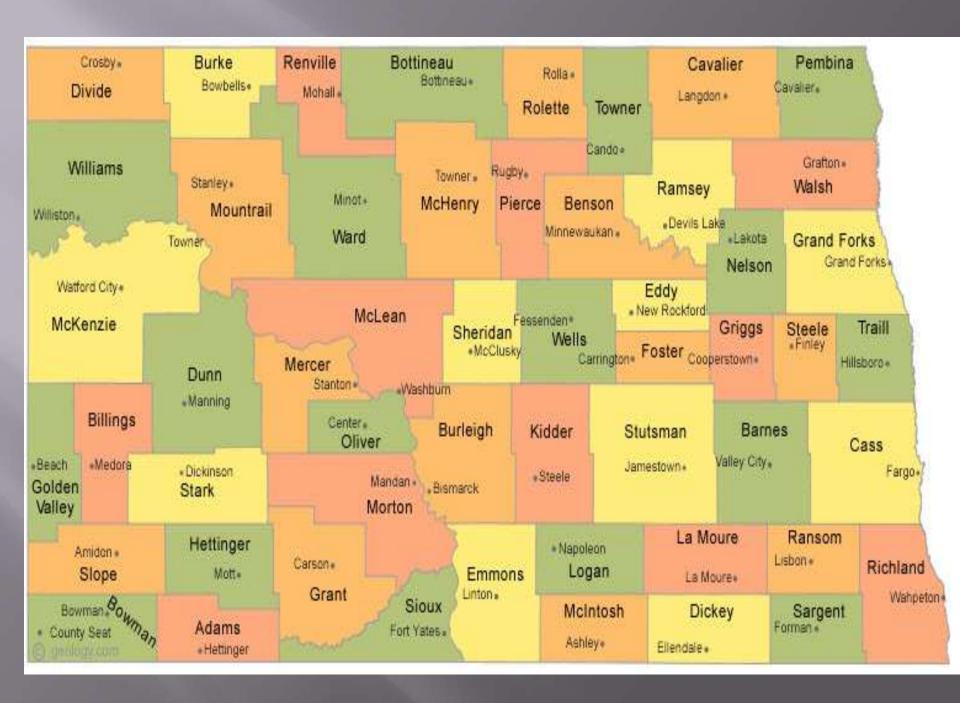
STARK COUNTY ROAD DEPARTMENT DATA MANAGEMENT

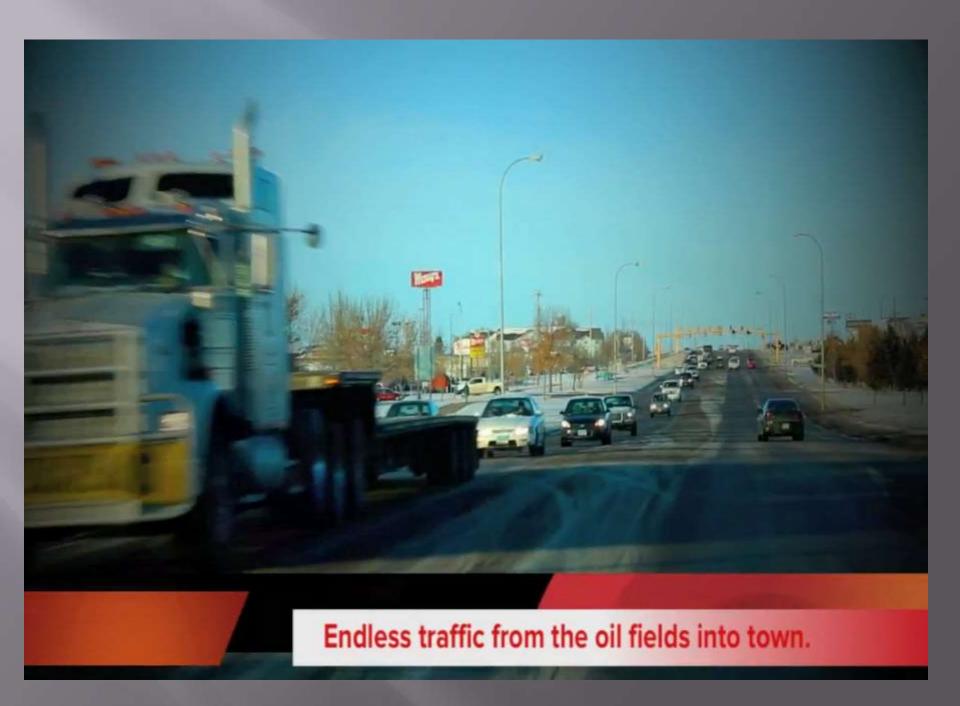
AL HEISER, ROAD SUPERINTENDENT
52 30th Ave. West
Dickinson, North Dakota 58601
701-290-8429

aheiser@starkcountynd.gov



What is happening in Stark County?

- TRAFFIC! TRAFFIC! TRAFFIC!
- POPULATION INCREASE
- OIL ACTIVITY
- CONSTRUCTION
- ROAD REPAIRS
- DATA MANAGEMENT



Traffic South Heart Road North



Repair Work to South Heart Road









ROAD COMPLETE



ROAD COMPLETE Mag Chloride



Collection of Data

- PHOTOS
- ACTIVITIES
- TIME CARDS
- INVOICES
- DATA SOFTWARE (Microcomputer Data Management System from NDLTAP)
- Microsoft Word and Excel
- Reports
- Mapping (ESRI ArcGIS)
- Traffic Data Software (METRO Count)

ACTIVITY WORK CODES

Stark County Road Department Activity Work Codes

001	Approach Building
002	Backhoe/Excavator World
003	Blacktop Patching
004	Blacktop Chip Sealing
005	Blade/Spread Gravel
006	Blading Roads
007	Bridge Inspection
008	Bridge Repair/Maint.
009	Brooming/Sweeping
010	Building Repair Maint.
011	Clean Shop/Yard
012	Cleaning Vehicles
013	Computer Work
014	Construction Staking
015	Courthouse Work
016	Crack Sealing
017	Culvert Checking
018	Culvert Cleaning
019	Culverts Load/Stack
020	Dead Deer/Garbage

021 Family Leave 022 Fence Work 023 Jury Duty

024 Flagman Work

	•
025	Flood Work
026	Funeral Pay
027	General Labor
028	Gravel Prospecting
029	Hauling Material
030	Hauling Water
031	Holiday Pay
032	Lawn Mowing
033	Laying/Repair Culverts
034	Loader Work
035	Mailbox Repair
036	Mechanical Work
037	Meeting/Training
038	Mix Salt/Sand
039	Motorgrader Work
040	Moving Equipment
041	Packer/Roller Work
042	Snow Equip. Install/Removal
043	Parts Running
044	Picking Rocks
045	Pulling Shoulders
046	Repair Equipment
047	Repair/Change Tires
048	Replace Cutting Edges

049	Road Inspection
050	•
051	Scraper Work
052	Servicing Equipment
053	Shoulder Discing
054	Sick Leave
055	Signing Inspection
056	Signing Installation
057	Signing Repair
058	Snow Removal
059	Sod Mulching Work
060	Spraying Weeds
061	Survey Work
062	Travel
063	Tree Trimming
064	Vacation Leave
065	Weed Mowing
066	Welding
067	Grass Seeding
068	Erosion/Sediment Control
069	Drug Testing
070	Durapatching
071	Laying Rock
GPS	Global Positioning System

TIME CARD EXAMPLES

Name: Pub Pusas Month 11 Day 10 Year 09 Employee No.:_____

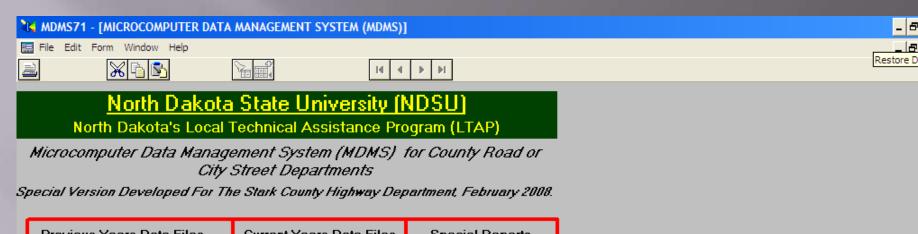
Activity Code	Street Address	Bridge	Employee Hours	Equipment Number	Equip. Hrs.	Miles	Comments
			10	1107	10		
029			70	1803	10		

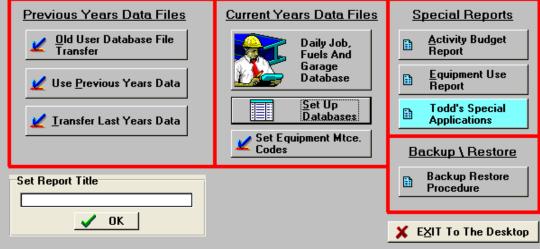
MATERIALS USED

Activity Code	Street Address	Bridge	Gravel Pit and/or Materials Used	Load/Material Count
			VALVETRA	3
			H01=F	5
			Al- a C	,
			HOFF	

Project Name
114 AUC
30 ST
Rie hardton

Service Printers, Dickinson













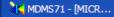






















Ins

DATA BASE

🗽 MDMS71 - [THE MDMS SETUP DATABASES]

Fuel Road Emp. Matr. Gpit Equip Acts Proj. Dept Dist. Exit

SETUP DATABASES INCLUDE:

Fuels	(Menu Item "Fuel"
Roads	(Menu Item "Road"
Employees	[Menu Item "Emp."
Materials	[Menu Item "Matr."
Equipment	[Menu Item "Equip."
Activities	[Menu Item "Acts"
Project	[Menu Item "Proj."
Department	[Menu Item "Dept"
District	[Menu Item "Dist"

The reports are displayed on screen. For a printed report, click the printer icon on the toolbar while the report remains displayed.

Note: Click a menu item to Append, Browse, Print or Pack any of the above databases. (Choose Pack to remove records marked for deletion).



















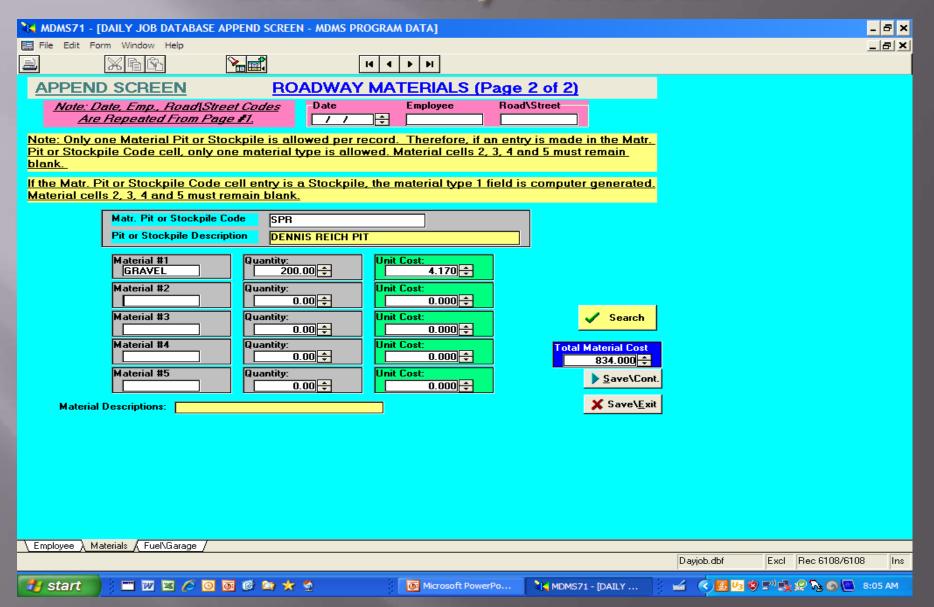




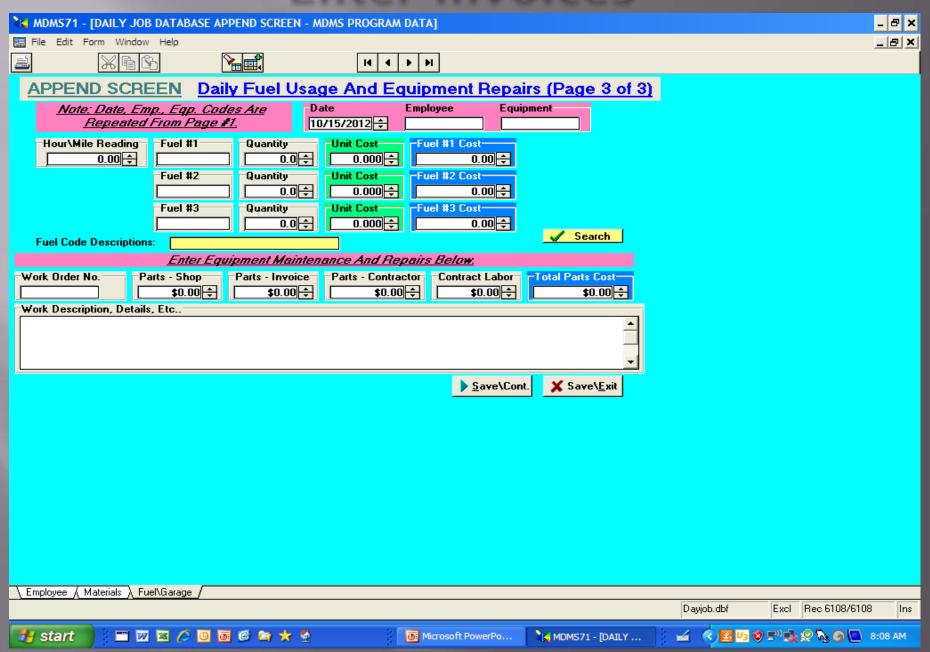
Enter Daily Time Card

MDMS71 - [DAILY J	OB DATABASE APPEND S	CREEN - MDMS PRO	GRAM DATA]			_ & ×
File Edit Form Wind		_				_ & ×
		H	1 4 1 1 11			
APPEND SCI	REEN EMPLO	YEE DAILY T	IME CARD RECO	RD (Page 1 of	3)	
<u>D</u> ate	E <u>m</u> ployee	Ho <u>u</u> rs 10.00 ♣	Overtime Hours	Total Employee Cost 366.0000 €		
Hour Rate	Overtime Rate		Hourly And Overtime Benefit			
21.05	31.58	Hourly Rate:	8.75 Overtin	e Rate: 2.42 💠		
Equipment 11-27	Hours or Miles 12.00 ↓	Hr./ Mi. Rate 70.16	Total Equipment Cost 841.92 ♣			
Road/Street	Surface Type	Section Length 0.000 💠		✓ Search		
Activity [029	Project Number [121	Project Descri				
District S	Department ROAD DEPT	Hours/Mi.:	Hiles And Rates For Billing F	urposes Only 0.00		
Name\Descriptio	n Of Coded Entries STAF	RK COUNTY ROAD D	EPT.			
			∑ ave\C	ont. X Save\ <u>E</u> xit		
\ Employee ∫ Materials ∫	Fuel\Garage /				Dayjob.dbf	Excl Rec 6108/6108 Ins
## start		B 👉 🚳	Microsoft PowerPo	MDMS71 - IDAILY	-	\$) □ 0 \$\

Enter Daily Material



Enter Invoices



Generate Reports

- Employee
- Project
- Data Base
- Activities
- Repairs
- Fuel Usage (optional)
- Materials

Projects for Unpaved Reimbursement

- Stark County allocated \$1,600,000.00 from Oil impact funds
- Must submit Data to NDDOT to receive reimbursement for Projects
- Using MDMS for Project Reports
- Word, Excel, and ArcGis for Maps

Stark County, North Dakota office of the Auditor

PO Box 130

Dickinson, North Dakota 58602-0130

Phone: (701) 456-7630 www.starkcountynd.com

BOARD OF COMMISSIONERS

PETE KUNTZ RUSS HOFF KEN ZANDER JAY ELKIN DUANE WOLF AUDITOR KAY HAAG

LYNN BETLAF

9/04/2012

Mr. Francis Ziegler North Dakota Department of Transportation 608 East Boulevard Avenue Bismarck, North Dakota 58505-0700

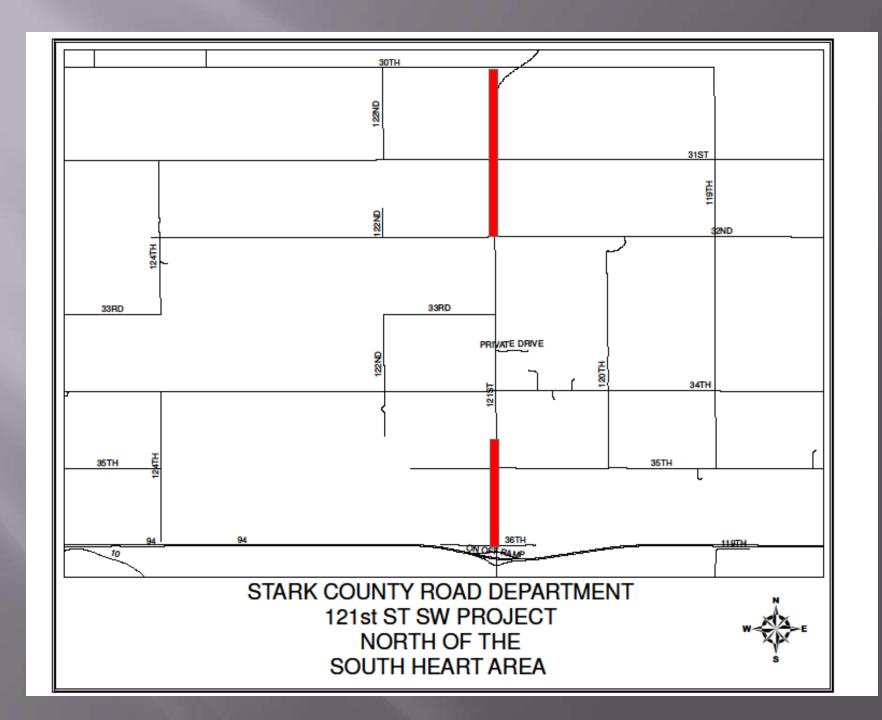
UNPAVED ALLOCATION REQUEST - COUNTY & TOWNSHIP ROAD PROGRAM PROJECT COI-0045(050)

Stark County is requesting reimbursement on the above referenced project. Stark County is requesting \$246,101.19; which is 90% of the total cost (\$273,445.77) we have spent on this project from 2/01/2012 to 8/31/2012.

Attached is the breakdown of the invoices for the following described Stark County Project name 121 and mapped location in red highlight.

If there are any questions call Todd Miller, Crew Leader Stark County Road Department 701-456-7662.

Chairperson, Stark County Commission



STARK COUNTY ROAD DEPARTMENT 121st AVE SW NORTH OF SOUTH HEART AREA

COMPANY	EXPENSES	MATERIAL CREDIT
		MATERIAL CREDIT
STARK COUNTY ROAD DEPARTMENT	\$211,934.92	
Deduction of Stockpiled Gravel		-\$8,885.40
MARTIN CONSTRUCTION	\$13,196.25	
NORTHERN IMPROVEMENT	\$46,675.00	
NORTHERN IMPROVEMENT	\$5,235.00	
NORTHERN IMPROVEMENT	\$1,207.50	
JURGENS TRUCKING	\$4,082.50	
TOTALS	\$282,331,17	-\$8.885.40
GRAND TOTAL		\$273,445,77

PAGE: 1

DATE: 9/4/2012

STARK COUNTY ROAD DEPT

DAILY JOB DATABASE SUMMARY REPORT (EQUIPMENT & LABOR)

Searching for the following information:

First Date : 2/ 1/2012	Last Date	: 8/31/2012			
Employee Code & Name	: All Emp				
Equipment Code & Description	on All Units				
Road Code & Description	: All Roads		•		
Surface Type & Description	: All Surfs		+	10	
Activity Code & Description	: All Acts				
Material Code & Description	: All Matrls				+
Project Code	: 121		- 121st A	VENUE SW	
Dept. Code & Description	: All Depts	15			
District Code & Description	: All Dists	33			

REPORT SUMMARY

Regular Hours	=	1,498.50
Over Time Hours	=	59.25
Equipment Miles/Hours	11=0	2,323.25
Rdwy. Length (Miles)	i = i	25.00
* Material Quantity	=	17,597.00
Labor Cost (Regular Time)	=	\$42,633.25
Labor Cost (Overtime)	=	\$2,095.47
Labor Cost (Total)	100	\$44,728.72
Equipment Cost	=	\$105,823.86
Material Cost	=	\$61,382.34
Total Cost	:=:	\$211,934.92

^{*} Material quantities are meaningful only if the report is limited to a single material type.

EQUIPMENT AND LABOR FULL REPORT

Next 3 Slides are examples of this detailed 28 page report

PAGE: 1 DATE: 9/ 4/2012

STARK COUNTY ROAD DEPT

Daily Job Database Report (Equipment, Labor & Material Costs) With Subtotals By Project & Activity

Activit 3/28/2012 ROAD DEPT S 5/22/2012 ROAD DEPT S	Overtime Dos 4.00 0.00 D11 3.00 0.00	17-05 4.00 42.74	002 121			Mair. Cost	
3/28/2012 ROAD DEPT S 5/22/2012 ROAD DEPT	D08 4.00 0.00 D11 3.00	17-05 4.00 42.74	002			124 04	
3/28/2012 ROAD DEPT S 5/22/2012 ROAD DEPT	D08 4.00 0.00 D11 3.00	4.00 42.74 17-05				124.04	
ROAD DEPT S 5/22/2012 ROAD DEPT	4.00 0.00 D11 3.00	4.00 42.74 17-05					\$295.00
S 5/22/2012 ROAD DEPT	D11 3.00	17-05	121			170.96	\$253.00
ROAD DEPT	3.00					0.00	
						88.65	\$216.87
S	0.00	3.00	002			128.22	155
		42.74	121			0.00	
Subtota	d Activity 002				Employee Cost	\$212.69	
					Equipment Cost	\$299.18	
Reg. Time		nt Hr.\Mi. 7.00	3		Material Cost	\$0.00	
Overtime	0.00	Destantante social			Total Cost	\$51L87	
Activit	ty_005						
3/28/2012	D10	15-15	121 Av	All		267.50	\$1,177.60
ROAD DEPT	10.00	10.00	005			910.10	
S	0.00	91.01	121			0.00	
5/15/2012	D10	15-15				284.32	\$1,239.93
ROAD DEPT S	0.50	10.50	005			955.61	
3	0.50	91.01	121			0.00	
5/16/2012	D10	15-15 10.50	005			284.32 955.61	\$1,239.93
ROAD DEPT S	0.50	91.01	121			937.61	
<u> </u>	42.50	91.01	121			2.00	
5/17/2012	D10	15-15				284.32	\$1,239.93
ROAD DEPT	10.00	10.50	005			955,61	
S	0.50	91.01	121			0.00	
5/21/2012	D10	15-15	(17850.00H)			284.32	\$1,239.93
ROAD DEPT S	0.50	10.50	121			955.61	
3	42.50	91.01	121			2.00	
5/22/2012	DOI	15-13				286.10	\$1,192.20
ROAD DEPT	10.00	10.00	005			906.10	
S	0.00	90.61	121			0.00	
5/22/2012	D10	15-15	172-02-1			284.32	\$1,239.93
ROAD DEPT	0.50	10.50 91.01	121			955,61	
S	0.30	91.01	121			0.00	
5/23/2012	DOI	15-13				286.10	\$1,192.20
ROAD DEPT	10.00	10.00	005			906.10	
S	0.00	90.61	121			0.00	
5/23/2012	D10	15-15				284.32	\$1,239.93
ROAD DEPT S	0.50	10.50	121			955.61	

PAGE: 27 DATE: 9/ 4/2012

STARK COUNTY ROAD DEPT

Daily Job Database Report (Equipment, Labor & Material Costs) With Subtotals By Project & Activity

Date Dept.	Res. Time	Equipment Hr/Mi.	Road/St. Activity	Type	Length	Emp. Cost	TOTAL
District	Overtime	Eco, Rate	Project			Matr. Cost	COST
4/ 2/2012	Dos	15-14	121 Av			273.20	\$1,183.30
ROAD DEFT	10.00	10.00	0.59			910.10	4.5
S	0.00	91.01	121			0.00	
4/ 2/2012	DOS	27-10	121 Av			0.00	\$400.00
ROAD DEPT	0.00	10.00	059			400.00	
S	0.00	40.00	121			0.00	
4/ 3/2012	DOS	27-10	121 Av	AB		0.00	\$400.00
ROAD DEPT	0.00	10.00	0.59			400.00	
S	0.00	40.00	121			0.00	
4/ 3/2012	1005	15-14	121 Av			273.20	\$1,183.30
ROAD DEFT	10.00	10.00	059			910.10	
S	0.00	91.01	121			0.00	
4/ 4/2012	DOS	15-14	121 Av			290.42	\$1,246.03
ROAD DEPT	10.00	10.50	059			955.61	
S	0.50	91.01	121			0.00	
4/ 4/2012	1005	27-10	121 Av			0.00	\$420.00
ROAD DEPT	0.00	10.50	059			420.00	
S	0.00	40.00	121			0.00	
Subto	tal Activity 059				Employee Cost	\$836.82	
0.00					Equipment Cost	\$3,995.81	
Reg. Time Overtime	30.00 Equipme 0.50	mt Hr.\Mi. 61.00	1		Material Cost Total Cost	\$4.832.63	
Activ	ity 061						
7/16/2012	102					135.24	\$135.24
ROAD DEPT	4.00	0.00	061			0.00	41333
S	0.00	0.00	121			0.00	
8/30/2012	102	10-01				152.15	\$219.65
ROAD DEPT	4.50	4.50	061			67.50	- 14.000
S	0.00	15.00	121			0.00	
	-1				1000	200	39
Subto	tal Activity 061				Employee Cost Equipment Cost	\$287.39 \$67.50	
Reg. Time	8.50 Equipme	nt Hr.\Mi. 4.50	1:		Material Cost	\$0.00	
Overtime	0.00				Total Cost	\$354.89	- 8
	piect 121				Employee Cost	\$44,728.72	- 8
Subtotals Pr							
	THE RESERVE OF THE PARTY OF THE				Equipment Cost	\$105,823.86	
Subtotals Pr Reg. Time Overtime	THE RESERVE OF THE PARTY OF THE	nt Hr.\Mi. 2,323.25	ê		Equipment Cost Material Cost Total Cost	\$105,823.86 \$61,382.34 \$211,934.92	

PAGE: 28 DATE: 9/ 4/2012

STARK COUNTY ROAD DEPT

Daily Job Database Report (Equipment, Labor & Material Costs) With Subtotals By Project & Activity

de. pl. strict	Reg. Time Overtime	Hr/Mi. Eon. Rate	Road/St. Activity Project	Type	length	Emp. Cost Emp. Cost Mair. Cost	COS
GRAND TOTALS Reg. Time 1.498.50 Overtime 59.25	Equipme Rdwy. M	ent Hr.\Mi. 2.323 files <u>25.000</u>	250		Employee Cost Equipment Cost Material Cost	\$44.728.72 \$105,823.86 \$61,382.34	
					Total Cost	\$211,934.92	

PAGE: 1 MatrTod2. Rpt

DATE: 9/4/2012

STARK COUNTY ROAD DEPT

SPECIAL MATERIALS SUMMARY REPORT - Stark County

(Use only if roadway materials = Gravel, Scoria or Shale)

Searching for the following information:

First Date : 2/ 1/2012 Last Date : 2/13/2012

Employee Code & Name : All Emp Equipment Code & Description : All Code Road Code & Description : All Roads Surface Type & Description : All Surf Activity Code & Description : All Acts Material Code & Description : All Matrls Gravel Pit Name : All Gravel Pits

Project Code : 121

Dept. Code & Description : All Depts District Code & Description : All Dists -

REPORT SUMMARY

Regular Hours = 226.00 Over Time Hours 42.25 Equipment Miles/Hours = 442.25 Rdwy. Length (Miles) 0.00 = ** Material Quantity (Total) = 2,492.00 Gravel (Yards) 2,320.00 Scoria (Yards) 0.00 = Shale (Yards) 172.00 = Labor Cost (Regular Time) 6,476.28 Labor Cost (Overtime) 1,494.12 Labor Cost (Total) \$7,970.40 Equipment Cost (Total) \$17,367.79 \$8,885.40 Material Cost (Total)

Grand Total Gravel, Scoria, and Shale Yard: = 2,492.00

Grand Total Cost = \$34,223.59

^{**} Material Quantity (Total) is meaningful only if the report is limited to a single material type.



50.00

PO Box 1035 Dickingon, ND 58602-1835

Phone: 701-225-5197 Fax: 701-ZZ5-0207 email:dickinson@uiend.com Invoice

Invoice # Date 6/30/2012 D7812

Customer#:

28199

28109

Bill to:

Attn: AL HEISER STARK COUNTY

PO BOX 130

DICKINSON, ND 58602-0130.

#O4: Terms

50,00

Project/GL#: 12112

Net 30.

Cost Codeff:

B200

Description	Comments	Quantity	Onit	Unit Price	Аваоции
L-HAUL	HAULING CLASS 5 - 12181 STREET				
1-Hauling	06/12/12 - 13 Thucks	112.0	HR	\$115.00	\$.2,880.00
l-Hauling	06/13/12 - 13 Trucks	139.0	31IL	\$. :5.00	\$14,835.00
l-Hauling	06/14/12 - 13 Trocks	146.5	JIR.	\$115.00	\$16,847.50
1-Hauting	06/15/12 - 8 Timoks	67.5	ня	\$115.00	\$7,762.50
2-IIAUC	DAUGING CLASS 5 - 38TH ST SW				
2-Hauling	06/38/12 12 Trucks	114.5	шк	\$113.00	\$13,167.50
3-Hauting	N6/19/12 - 9	80.5	HR	\$115.00	\$9,257.50
2-Mauling	 06/20/12 - 9 Trucks	99.5	ян	\$115.00	\$11,442.50
				Subtotal:	\$85,193.50
		Total	l City an	d State Tax:	20.00

\$0.00

\$86,192.50

JURGENS TRUCKING FLC 315 1st ST W Main PO BOX 204 TAYLOR NO, 58656

invoice

Date	Treatc∈ #
6/27/2012	2981

Billi Fe	
Stark County Auditor	 ·——
PO Box 130	
Dickinson, ND 58602	i

	Desc (olign	Rate	Amount
11.5	Daryl 6/11/2012 13 lds from Walter Pit on Shefield Rd 1 ld of shale rock to shop	115.00	1,322.50
7.1	Daryl 6/12/2012 17 lds from Walter Pit on Shelield Rd	115.00	1,265.00
11.5	Doryl 6/13/2012 6 lds Ververka Pit 7 lds Walter Pit Shotield Rd	J18.00	1,322.50
i I	Daryt 6/14/2012 6 lds Reich Pit 121 S Stock pile	115.00	1,265.00
	- /// // expx 1		
	All Heron		









