	PROJECT 1401716	DESIGNATION 1401716		
	CONTRACT R-38246			
	APPROVED	BY		
	BOARD OF PUB	LIC WORKS & SA	FETY	
	HON. JOHN DITSLE	AR	MAYOR	55
	LAWRENCE J. STOP	<u>ال</u>	MEMBER	<u></u> P.C
	JACK E. MARTIN		MEMBER	
	ATTEST			
	EVELYN L. LEES		CLERK	
	MICHAEL A. HOWA		TATIORNET	
	RECOMMEN	NDED FOR A	PPROVAL	
	JOHN BEERY, P.E.	CI	TY ENGINEER	
FULL S	SIZE PLANS HAVE BEEN CED SIZED PLANS WILL	PREPARED USING STAN NOT CONFORM TO STA	DARD ENGINEERING SCALE NDARD SCALES.	ES.

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS GREENFIELD AVE. & HOWE RD. PROJECT NO. 1401716 P.E. R/W

Intersection And Roadway Improvements At Greenfield Blvd. And Howe Rd., Located Approximately 1 mi. North Of The 146th St. & Howe Rd. Intersection And Approximately 1 mi. East Of The S.R. 27 & Greenfield Ave. Intersection. All Within Sections 8 & 17, Township 18 North, Range 5 East, In Noblesville Township Of Hamilton County, Indiana.

> GROSS LENGTH: 0.19 mi. NET LENGTH: 0.19 mi.

> > SCALES:

PLAN

PROFILE $\begin{cases} HORIZ: 1'' = 20' \\ VERT: 1'' = 5' \end{cases}$

MAX. GRADE: 1.47%

CONST.



PLANS PREPARED BY:	Butler Fairman
CERTIFIED BY:	
APPROVED FOR LETTING:	
	INDIANA DEPAR

TRAFF.	IC DATA	GREENFIELD	OAVE.
A.A.D.T.	(2017)	9,450	V.P.D.
A.A.D.T.	(2037)	10,775	V.P.D.
D.H.V.	(2037)	1,078	V.P.H.
DIRECTIONAL DISTR	RIBUTION	50	%
TRUCKS		8	% D.H.V.
		8	% A.A.D.T.
DESIG	N DATA		
DESIG DESIGN SPEED	N DATA	40 mph	
DESIG DESIGN SPEED FUNCTIONAL CLASS	IFICATION	40 mph Principal Arte	erial
DESIGN SPEED FUNCTIONAL CLASS TERRAIN	IFICATION	40 mph Principal Arte Level	erial
DESIGN SPEED FUNCTIONAL CLASS TERRAIN RURAL/URBAN	IFICATION	40 mph Principal Arte Level Urban (Suburl	erial ban)
DESIG DESIGN SPEED FUNCTIONAL CLASS TERRAIN RURAL/URBAN ACCESS CONTROL	IFICATION	40 mph Principal Arte Level Urban (Suburl None	erial ban)
DESIG DESIGN SPEED FUNCTIONAL CLASS TERRAIN RURAL/URBAN ACCESS CONTROL PROJECT DESIGN CF	IFICATION	40 mph Principal Arte Level Urban (Suburl None New Constr. 4R (Nor	ban)

TRAFFIC DATA		HOWE RD.		
A.A.D.T.	(2017)	1,365	V.P.D.	
A.A.D.T.	(2037)	1,555	V.P.D.	
D.H.V.	(2037)	156	V.P.H.	
DIRECTIONAL DISTRI	BUTION	50	%	
TRUCKS		2	% D.H.V.	
		2	% A.A.D.T.	
DESIGN	DATA			
DESIGN SPEED		40 mph		
FUNCTIONAL CLASSIFICATION		Local Street		
TERRAIN		Level		
RURAL/URBAN		Urban (Suburban)		
ACCESS CONTROL		None		
PROJECT DESIGN CRI	TERIA	New Constr. 4R (Non-Freeway)		



Approx. 49°01'00" N. Lat. & 85°58'50" W. Long.

END CONSTRUCTION

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2016 TO BE USED WITH THESE PLANS.

		BRIDGE FILE	
and Seufert Inc. (317)713-4615			
PHONE		DESIGNATION	827
		1401716	2
	SURVEY BOOK	SHEET	
DATE	356	1 OF	
	CONTRACT	PROJECT	N N N
RTMENT OF TRANSPORTATION DATE	R-38246	1401716	BF

	UTIL	ITIES
ELECTRIC:	DUKE ENERGY 1619 W. DEFFENBAUGH ST. KOKOMO, IN 46902 PH: 317-7538177 ATTN: TIM UMBAUGH tim.umbaugh@duke-energy.com	COMMUNICATION: COMCAST (TELECOM PLACEMENT) 478 N. COUNTY ROAD 1100 E. ZIONSVILLE, IN 46077 PH: 317-769-4777 ATTN: TOM SPENCER tspencer@telecomplacement.com
WATER:	INDIANA AMERICAN WATER 555 E. COUNTY LINE RD., SUITE 201 GREENWOOD, IN 46143 PH: 317-885-2447 ATTN: EZAT NAYERI ezat.nayeri@amwater.com	AT&T 5870 N. COLLEGE AVE. INDIANAPOLIS, IN 46220 PH: 317-252-5071 ATTN: MATT SPINDLER ms4822@att.com
GAS:	VECTREN 16000 ALLISONVILLE RD. NOBLESVILLE, IN 46060 PH: 317-776-5534 ATTN: BRIAN HARGER bharger@vectren.com	ZAYO BANDWIDTH 5200 E. 64TH ST. INDIANAPOLIS, IN 46220 PH: 317-508-2807 ATTN: DAN JONES dan.jones@zayo.com

REVISIONS				
SHEET NO.	DATE	REVISED		
	1	1		

GENERAL NOTES

All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.

The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.

The paper relocation will be cross sectioned by the Engineer before construction.

Existing asphalt pavement located outside the construction limits, between Sta. OO+OO and Sta. OO+OOshall be removed as directed.

The quantity of Peat "Excavation" as shown on the plans has been estimated on the basis of theoretical cross-sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.

Contractor shall verify the existing flowline elevation to set appropriate sump depth.

** REPRESENTS GENERAL NOTES REQUIRED



RECOMMENDED FOR APPROVAL) : DESI(GN ENGINEER	DATE	
DESIGNED:	KLW	DRAWN:	BEH	
CHECKED:	ACE	CHECKED:	KLW	

INDEX			
DESIGNATION			
TITLE SHEET			
INDEX SHEET			
TYPICAL CROSS SECTIONS			
PLAT NO. 1			
MAINTENANCE OF TRAFFIC			
PLAN & PROFILES			
ROUNDABOUT CONSTRUCTION DETAILS			
ROUNDABOUT SPOT ELEVATION DETAILS			
EROSION CONTROL PLANS			
DETENTION DITCH EROSION & DETAILS			
EROSION CONTROL NOTES, DETAILS AND CHECKLIST			
PAVEMENT MARKINGS & SIGNAGE PLAN			
MISCELLANEOUS TABLES			
APPROACH & STRUCTURE DATA TABLES			
CROSS SECTIONS			

	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE	
		NONE		
-		VERTICAL SCALE	DESIGNATION	827
		NONE	1401716	<u>о</u>
	INDEX	SURVEY BOOK	SHEET	
-		356	2 OF	
		CONTRACT	PROJECT	Ž
_		R-38246	1401716	BFS
_				



RECOMMENDED FOR APPROVAL:	DESIG	N ENGINEER	DATE	
DESIGNED:	KLW	DRAWN:	BEH	
CHECKED:	ACE	CHECKED:	KLW	





RECOMMENDED FOR APPROVAL:				
_	DESIGN E	ENGINEER	DATE	
DESIGNED:	KLW	DRAWN:	BEH	
CHECKED:	ACE	_ CHECKED:	KLW	







R-38246

1401716





54+11.88, 96,51 ¹ Hse.	William D. & William J. Hedg	BRIGHT(3446974) 3670 Hse. BRIGHT(546921) 3672 Hse.	ON KNOLL TION 2	55+19.05, 16.68' Owr. Hd. Tele.	22+27.94, 74.59 Water Valve Noppl Ha	7, T. 18 N., R. 5 esville Township milton County	E. 00 9 9 9	
nm.	App. P. (Lawn) (Lawn) (Lawn) (App. P. (App. P. (App. P. (Solution) (Lt.) (Lawn)	- W W	dw		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		App. P.	
Sta. 54 Off. 49 075.00 "Pl	Sta. 54+17.47 "S-1-A Off. 49.73' Lt. 4+10.42 "S-1-A", 9.23' Lt. G G RS-1-A"	", - G — G — G — (Lawn)	G G	G	All R/W To Be A Described From G — G — G All Existing Pipe Connected To I	As Shown. All R/ Line "S-1-A" Ur G — G — G es Not Labeled T New Storm Syste	W On This Shee hless Otherwise - G — To Be Removed em Shall Be Pro	et Noted. Or tected.
	LINE "S- App. ¹ / ₄ ¹ / ₄	1-A" & Sec. Line	0 50°13'44"E +		Howe Rd. (Bit. Mat.)	1 1		
<u>AL COI</u> 55.00	NSTR. "S-1-A" (Lawn) Sec. 17, T. 1 Noblesville Hamilton Dean C. Janet Han	Ap 8 N., R. 5 E. Township County & sen	55+07.16, 12.15° Rd. Sn., 40 55+10.41, 14.98° DWr. Hd. Elec. 55+13.28, 14.96° PWDHMI4790 55+13.60, 14.07° B.M. #1	C Co K HM L Mil M HM 15 2'- 22 Co 27 Se BM # 1 1	LEGEND ncrete Pavement F 1A Pavement - See 1 & Overlay 1A For Sidewalk - S 7" Combined Conc nc. Center Curb, T eding, Type U El. = 822.69' Boat Sta. 55+13.60	For Drives, 6" Typicals See Typicals Curb & Gutter, T Type 'D' Spike "Set" in Pwp	ype II (6") . #HMI4790
								830
								825 820
								815
								810 805
821.4	821.7	822.0	<i>*:228</i> 55+	·00			56+0	800
C	DEPARTMEN PL/ L	INDIANA F of trans An & profi Ine "S-1-A" Iowe roae	SPORTATION	N	HORIZONTAL S 1" = 20' VERTICAL SC 1" = 5' SURVEY BO 356 CONTRAC R-38246	SCALE	BRIDGE FILE DESIGNATION 1401716 SHEET 9 OF PROJECT 1401716	BFS NO. 5827

\5827\ProjDevelopment\Design\Drawings\5827R521.dwg Kevin L. Waldroup Plot:1/31/2017 8:57 AM Save:1/26/2017 10:55

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE AS SHOWN VERTICAL SCALE AS SHOWN	BRIDGE FILE DESIGNATION 1401716	5827
DESIGNED:	KLW DRAWN:	BEH		SURVEY BOOK 356	SHEET 14 OF	\square .
CHECKED:	ACE CHECKED:	KLW	DETENTION DITCH DETAILS	CONTRACT R-38246	PROJECT 1401716	BFS NO

Detention Ditch Typical Section

Fill Bags Approximately Half Full With Washed Aggregate.

Place Bags In A Row Curving From The Curb, And Away From The Inlet Up-Slope From The Inlet.

Overlap The Barrier Onto The Curb, Extending It A Minimum Of 3 Feet Into The Street.

Maintenance:

Inspect Daily And After Each Storm Event For Damage And Make Needed Repairs Immediately.

Inspect For Damage By Vehicular Traffic And Repair As Needed.

Remove Sediment (But Not By Flushing) When It Reaches Half The Height Of The Barrier.

STONE BAG INLET SEDIMENT DETAIL NOT TO SCALE

Ground Line

8" Embedment-

NOTES: Installation:

<u>Maintenance:</u>

Or Products May Be Used To Provide

RECOMMENDED FOR APPROVAL:	DESI	gn Engineer	DATE	
DESIGNED:	KLW	DRAWN:	BEH	
CHECKED:	ACE	CHECKED:	KLW	

EROSION CONTROL NOTES

GENERAL:

Take Measures To Control Erosion And Sedimentation To Assure That Sediment Is Not Transported From The Site By Storm Events. Practices Such As Silt Traps Or Filters Shall Be Installed Prior To Land Disturbing Activities. New Drainage Swales Shall Be Seeded And/Or Sodded, Or Other Protective Practices Applied, Immediately Following Construction. All Practices Shall Be Maintained To Remove Sediment From Runoff Leaving The Site As Long As Unstabilized Soil Conditions Exist.

After Land Disturbing Activities Cease And The Soil Is Stabilized, Temporary Erosion Control Measures May Be Eliminated If Their Purpose Has Been Fulfilled. Any Disturbed Soil Resulting From Removal Of Such Practices Shall Be Stabilized By Approved Methods.

Dispose Properly All Waste And Unused Building Materials Including, But Not Limited To, Garbage, Debris, Cleaning Wastes, Water, Toxic Materials, And Hazardous Substances. Do Not Allow Substances To Be Carried By Runoff Into A Receiving Channel Or Storm Sewer System.

Clean Public Or Private Roadways Daily And After Major Storms Using Acceptable Methods To Remove Any Accumulated Sediment. The Developer's Contractors Are Responsible For Supervision Of The Construction Activity Within The Development And Shall Take All Necessary Actions To Remove Sediment From The Streets.

For Construction Sequence, Maintenance, And Other Soil Erosion Requirements, See Specifications For Site Clearing, Slope Protection, Erosion Control, Landscaping, And Seeding.

Erosion And Sediment Control Practices Must Adhere To, Or Exceed Those Shown On The Erosion Control Plan, (And Rule 5 327 IAC 15-5) And Shall Be In Accordance With The Indiana Storm Water Quality Manual, Indiana Department Of Environmental Management.

SURFACE STABILIZATION:

Cut Slopes Which Are To Be Topsoiled Should Be Scarified To A Minimum Depth Of 4 Inches Prior To Placement Of Topsoil. Install Erosion Control Blankets On All Slopes Of 3 (Horizontal) To 1 (Vertical).

Stabilize All Disturbed Ground Left Inactive For Fifteen Or More Days By Seeding, Sodding, Mulching, Or By Other Equivalent Erosion Control Practices. See The Landscape Plan For Permanent Ground Cover Requirements Adjacent To The Building And Parking Areas.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD:

Construct The Temporary Gravel Drive Using 2-3 Inches INDOT CA No. 53 Washed Stone Over A Stable Foundation, 6 Inches Minimum Thickness. Geotextile Fabric May Be Used Under Wet Conditions Or For Soils Within A High Seasonal Water Table To Provide Greater Bearing Strength. Grade For Positive Drainage.

Inspect The Entrance Pad Area Weekly And After Storm Events Or Heavy Use. Reshape The Pad As Needed For Drainage And Runoff Control. Top Dress Pad With Clean Stone.

SODDING:

Do Not Install Sod On Hot, Dry Soil, Frozen Soil, Compacted Clay, Loose Sand Or Gravel, Or Pesticide Treated Soil. Ideal Sodding Time Is May 1-June 1, Or September 1-October 20, Although It Can Be Installed As Early As March 15, If Available And Temperatures Are Above 32°F, Or June 1-September 1 If Irrigated.

Install Sod After Other Erosion Control Practices Have Been Completed. Break Up Compacted Soils Sufficiently To Create A Favorable Rooting Depth Of 6-8 Inches, Using A Chisel Plow, Disk, Harrow, Or Rake.

Apply Topsoil If The Site Is Otherwise Unsuitable For Establishing Vegetation. Shape, Smooth, And Firm The Soil Surface.

Have The Soil In The Sod Bed Tested To Determine Its pH And Nutrient Level. If The pH Is Too Acidic For The Grass Sod To Be Installed, Apply Lime According To Test Results Or At The Rate Recommended By The Sod Supplier.

Fertilize As Recommended By The Soil Test. If Testing Was Not Done, Consider Applying 400-600 Lbs./Acre Of 12-12-12 Analysis Fertilizer, Or Equivalent Fertilizer, As Recommended By The Soil Test. Work The Fertilizer Into The Soil To 2-4 Inches Deep.

TREE CONSERVATION/PROTECTION:

Protect Trees From Construction Equipment By Fencing Off An Area Equivalent To The Tree's Crown With Temporary Construction Safety Fence. If A Fence Cannot Be Erected, Cushion The Rooting Area With 6 Inches Of Wood Chips, Or Wood Or Brick Paths.

Create Traffic Patterns Such As To Keep Soil Compaction To A Minimum. Store Supplies And Equipment Away From Protected Tree Areas. Aerate Soil Where Compaction Has Been Excessive.

When Clearing Areas Adjacent To Protected Trees, Use Equipment Such As A Brush Cutter Or Rotary Ax, Or Cut By Hand. Where Root Areas Must Be Graded, Cut Large Roots Instead Of Tearing Them With Equipment.

		C(Copt)					
	EROSION CONTROL NOTE			Potential Storm V	Nater Pollutants Materia	al Handling and Spill Pre	evention
Minimize Prune Lo	e Changes In The Drainage Pattern. Avoid Pu ow Hanging Limbs That Could Otherwise Be B	tting Fill Over The Root System. roken Off By Equipment.	Trade Name /Material	Source	Chemical/Physical Description	Storm Water Pollutants	Remedial Action
Demoir M		rd Mand Tinner (Do Not Une Tree Drint)	Fertilizer	Landscaping Activities	Liquid or Solid Grains	Nitrogen, Phosphorus	(1), (2), (3)
EROSIO Use Mac	Wounds Simply By Removing Damaged Bark A I <u>N CONTROL BLANKETS:</u> chine Produced Mat Of Straw Fiber Matrix Or (Curled Wood Excelsior Of 80 Percent, 6 Inch Or	Cleaning Solvents	Normal Business Operation	Colorless, Blue Or Yellow-Green Liquid	Percholoroethylene, Methylene Chloride, Trichloroethylene, Petroleum Distillates	Seal Drains & Inlets w/Plastic And Or Tape And Collect Excess, (1), (2), (3), (4)
Longer F	Fiber Length.		Asphalt	Site Construction	Black Solid	Oil, Petroleum Distillates	(1), (2) Due To Contamination Of Runoff Before Curing Is Complete
Evenly D	Distribute Fibers Over Entire Area Of Blanket T	o Provide Consistent Thickness.	Concrete	Bridge Construction	White Solid	Limestone, Sand	Concrete Washout Areas Shall Be
Provide	Blanket With Top Side Covered With Biodegra	dable Extruded Plastic Mesh.					Properly Once Hardened (2).
Treat Bla Provide	lankets To Impart Smolder Resistance Without	: Use Of Chemical Additives. Dany, Or "S150" By North American Green, Or	Paints	Roadway Striping	Various Colored Liquids	Metal Oxides, Stoddard Solvent, Talc, Calcium Carbonate, Arsenic	Care Should Be Taken To Minimize Overspray (1), (2), (3), (4)
Accepte	ed Substitute.		Curing Compounds	Site Construction	Creamy White Liquid	Naphtha	(1), (2), (3), (4)
EROSIO Use Mini Crown. SEEDIN	N CONTROL BLANKET STAPLES: nimum 0.091 Inch Diameter Steel Wire "U" Sha	ape With Legs 6 Inches In Length With 1 Inch	Wastewater From Constr. Equipment Washing	Construction Equipment	Water	Soil, Oil, Grease, Solids	Equipment Washing Shall Be Executed In A Location Which Does Not Cause Wastewater To Drain Directly To Storm Sewers Or Ditches (i.e. Flat Vegetated Area) (2)
The Foll <u>Manual</u> And Are	For Recommendations Relating To Steep Ban eas Of Concentrated Flow.	ion Only. Consult The <u>Indiana Storm Water Quality</u> ks And Cuts, High Maintenance Areas, And Channels	Hydraulic Oil/Fluids	Construction Equipment, Cars	Brown Oily Petroleum Hydrocarbon	Mineral Oil	Storm Structures Incorporate A Hooder Outlet Preventing Floatables From Exiting Site, (3), (4)
<u>SEEDS:</u> 40 Per 40 Per 20 Per	<u>:</u> rcent Kentucky Bluegrass rcent Creeping Red Fescue rcent Annual Rye Grass	<u>FERTILIZER:</u> Commercial Fertilizer (12-12-12) <u>STRAW:</u> Clean And Free Of Weed Seeds	Gasoline	On Site Storage Tanks, Cars, Construction Equipment, Fueling Operations	Colorless, Pale Brown Or Pink Petroleum Hydrocarbon	Benzene, Ethyl Benzene, Toluene, Xylene, MTBE	Storage Tanks Shall Have Emergency Storage Capacity Below Tank In Case Of Rupture, 3'x3'x6" Spill Pans Shall Be Used During Fueling. (3), (4)
Spread Thorou	Fertilizer Uniformly Over Finish Graded Surfac Ighly Disk, Harrow, Or Rake Fertilizer Into Soil	ces At A Rate Of 20 Pounds Per 1,000 Square Feet. To Depth Not Less Than 2 Inches.	Diesel Fuel	On Site Storage Tanks, Cars, Construction Equipment, Fueling Operations	Clear, Blue-Green To Yellow Liquid	Bpetroleum Distillate, Oil And Grease, Naphthalene, Xylenes	Storage tanks shall have emergency storage capacity below tank in case of rupture, 3'x3'x6" spill pans shall be used during fueling. (3), (4)
Distribu Square	ute Seed Mix Same Day As Fertilizer Is Applied Feet. Rake Lightly And Compact Areas With	. Spread Evenly At A Rate Of 3 Pounds Per 1,000 100 Pound Roller.	Kerosene	Cleaning Operations, Heaters	Pale Yellow Liquid Petroleum Hydrocarbon	Coal Oil, Petroleum Distillates, Arsenic, Copper	3'x3'x6" Spill Pans Shall Be Used During Fueling Operations And Cleaning Of Equip. To Catch Excess, (1), (2), (3), (4)
Cover A Areas V Continu	With Fine Spray. Do Not Flood Or Create Was We Watering Of These Areas On A Daily Basis F	For The Remainder Of The Construction Period.	Antifreeze Coolant	Construction Equipment, Cars	Clear Green/Yellow Liquid	Ethylene Glycol, Propylene Glycol, Heavy Metals (Copper, Lead, Zinc)	(1), (2), (3), (4)
Hold Sk	anad Araza Staanar Than 2 (Harizantal) To 1	(Vartical) With Wira Mach Or Stakes And Wira	Soil Erosion	Exposed Soil	Solid Particles	Soil Sediment	Erosion Control Measures (This Sht.)
		(vertical) with whe mesh of stakes And whe.	Solid Waste Trash	Normal Business Operation	Trash, Debris, Refuse	Trash, Debris, Refuse	Trash Cans Shall Be Utilized On Site During And After Construction
	JAN FEB MAR APR MAY JUN	JUL AUG SEP OCT NOV DEC	This Table Was Prov Material Handling Ar Notes:	vided For General Information Only nd Spill Mitigation Procedures.	/ To Supplement Information Usec	I In The Rule 5 Permitting Process	. The Contractor Is Responsible For
Vheat Or Rve	Temporary	Seeding Dates	 All Excess Materials Material Shall Not E 	Shall Be Collected And Disposed Of In e Applied Immediately Preceding, Du	n Accordance With All Federal, State A ring Or Following Rainfall (When Appl	And Local Regulations. icable).	
Dats			3. Spillage Should Be	Cleaned Immediately By A Trained Ind	dividual And Disposed Of Per Note (2)).	
Annual Rye Grass			4. Store In Sealed Cor	ntainers Appropriate For Specific Use.			
	Permanent	Seeding Dates					
on-Irrigated*							
rrigated							

Dormant Seeding**

Irrigation Required

Seeding Dates May Be Extended 5 Days *

If Mulch Applied And Planted Late Summer

** Increase Seeding Rate By 50%

NOTES:

If Construction Activities Take Place During The Months Of November Through February, Use Dormant Seeding Practices In Place Of Temporary And Permanent Seeding Practices.

See Chapter 7 Of The Indiana Storm Water Quality Manual, For Additional Seeding Recommendations.

RECOMMENDED FOR APPROVAL:	DESIGN E	ENGINEER	DATE	
DESIGNED:	KLW	DRAWN:	BEH	
CHECKED:	ACE	CHECKED:	KLW	

	HORIZONTAL SCALE	BRIDGE FILE	
INDIANA	NONE		
DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION	827
	NONE	1401716	<u> </u>
	SURVEY BOOK	SHEET	
	356	16 OF	
LRUSIUN CUNTRUL NUTLS	CONTRACT	PROJECT	Z
	R-38246	1401716	BFS

KUIE 5 CRECKIIST - Section A: Construction Plan Elements	Rule <u>Storn</u>
1. Index Showing Locations Of Required Plan Elements See The Index Sheet.	1. Des The Fo
2. 11x17 Inch Plat With Building, Lots, Boundaries, Road Layout Names See Plat No. 1 Sheet.	A B. C
3. Narrative Describing Nature And Purpose Of Project The City of Noblesville Proposes A Project Involving The Construction Of A Roundabout At The Existing T-Intersection Of Greenfield Avenue And Howe Road. The Purpose Of The Project Is To Address The Poor Level Of Service And Sight Distance And Improve The Overall Travel Conditions For The Motoring Public At The Intersection.	D E. F. G H I. J.
4. Vicinity Map Showing Project Location See Title Sheet.	See TI The E
5. Legal Description Of The Project Site Latitude: 49°01'00"N, Longitude: 85°58'50"W; The Project Is Located Approximately 1 Mile North Of The 146th Street And Howe Road Intersection And Approximately 1 Mile East Of The S.R. 27 And Greenfield Avenue Intersection; All Within Sections 8 And 17, Township 18 North, Range 5 East, On The U.S.G.S. Riverwood Quadrangle, In Noblesville Township, Hamilton County, Indiana.	2. Se Distur Precor A B
6. Location Of All Site Improvements Improvements Shall Be Contained Within The Construction Limits, As Shown On The Plan And Profile Sheets.	E. Consti A
7. Hydrologic Unit Code 05120201070070	B. C
8. Note Any State Or Federal Water Quality Permits An IDEM Rule 5 Erosion Control Permit Is Required For This Project.	D
9. Specific Points Where Stormwater Discharge Will Leave The Site Stormwater Will Leave The Pipe Network At 51+00 Line "T-1-A" And Enter The Extended Dry Detention Basin Before Draining To Wheeler And Wheeler Legal Drain At The Northern Border Of The Project. See The Plan And Profile Sheets.	E. F. G H I.
10. Location And Name Of All Wetlands, Lakes And Water Courses On And Adjacent To The Site	J. K. L.
The Wheeler And Wheeler Legal Drain Is Located At The Northern Limits Of This Project. There Are No Known Wetlands Or Lakes Located Within The Project Limits.	M N
 Identification Of All Receiving Waters Stormwater Will Discharge From The Proposed Pipe Network To The Dry Detention Basin The Empties To Wheeler And Wheeler Legal Drain. 	3. Sta Egress The C Ingres
 Identification Of Potential Discharges To Ground Water (Abandoned Well, Sinkholes, Etc.) No Potential Locations For Groundwater Infiltration Are Known To Exist For This Project 	Consti 205-T
13. 100 Year Floodplains, Floodways, And Floodway Fringes See The Attached Flood Insurance Rate Map.	4. Sed Sedim And P
14. Pre-Construction And Post Construction Estimate Of Peak Discharge (10 Year Storm Event)	205-T
LocationPre-Construction (10 yr.)Post-Construction (10 yr.)51+00 "T-1-A"6.42 cfs5.22 cfs	5. Sed Sedim The E
 Adjacent Land Use, Including Upstream Watershed The Land Use Within, And Adjacent To, The Project Limits Mostly Consists Of Residential And Agricultural Development. Construction Limits 	6. Sto Inlets Contro
See The Plan And Profile Sheets For Construction Limits.	Sheets
17. Identification Of Existing Vegetative Cover The Project Is Located Mostly On Existing Pavement, Grass, And Woods.	Runoff Will Be
18. Soils Map Including Soil Descriptions And LimitationsBrBrookston Silty Clay Loam, 0 To 2% Slopes31.2%CrACrosby Silt Loam, Fine-Loamy Subsoil, 0 To 2% Slopes68.8%See The Attached Soils Map.See State Attached Soils Map.68.8%	8. Storm Storm On Ou
19. Locations, Size And Dimensions Of Proposed Stormwater Systems (e.g. Pipes, Swales, And Channels)	See Th
See The Plan And Profile Sheets And The Structure Data Table. 20. Plans For Any Off Site Construction Activities Associated With This Project (Sewer/Water	9. Gra
Tie-ins) There Are No Known Offsite Construction Activities Associated With This Project.	10. Lo Qualit See Tl
21. Locations Of Proposed Soil Stockpiles And/or Borrow Disposal Areas The Contractor Shall Determine The Location Of Stockpiles, Borrow, And/Or Disposal Areas Used During Construction. The Determined Locations Shall Be Approved By INDOT. Proposed Borrow Or Disposal Sites Shall Be Identified By The Contractor Before The Material	Erosio Drawir 11. Te Temp
Is Excavated Or Disposed Of Within Or Outside The R/W In Accordance With Sections 203.08, 203.09, And 212. The Contractor Shall Comply With Section 108.04 Of The INDOT Standard Specifications And RSP 108-C-192D Storm Water, Erosion, And Sediment Control Inspection Report	Of 7 D
22. Existing Site Topography At An Interval Appropriate To Indicate Drainage Patterns See The Plan And Profile Sheets, Erosion Control Sheets, And Cross Section Sheets For Existing Topography.	Gradir Sheet
23. Proposed Final Topography At An Interval Appropriate To Indicate Drainage Patterns	

klist - Section B:

Pollution Prevention Plan-Construction Component

Of Potential Pollutant Sources Associated With Construction Activities. Could Generate Potential Pollutants Associated With Construction Activities: Of Vehicles

Equipment Or Vehicles

al Storage

molition tion Of Materials

d Soils

uction Waste And Litter

v Waste e Waste And Washout

g Of Soils Offsite

tial Stormwater Pollutants And Spill Prevention Handling Table Located On ontrol Notes.

Describing Stormwater Quality Measure Implementation Relative To Land vities.

Project Owner

The Indiana Underground Plant Protection Systems, Inc. To Verify The ion Of Any And All Underground Utilities.

Temporary Construction Entrances At All Access Points.

Rule 5 Information At The Job Site. Contractor Shall Designate A Person onsible For On-Site Inspections And For Providing This SWPPP On-Site. Silt Fence And Drop Inlet Protection For Existing Inlets.

sh Construction Entrances.

ctor Shall Construct Concrete Washouts. Contractor Shall Coordinate Location procrete Washouts With Owner And Engineer.

Erosion Control Measures As Each New Item Of The Project Is Installed As ired Which May Include But Is Not Limited To Drop Inlet Protection, Silt Fence, Check Dams, Erosion Control Blankets, and Riprap.

Mass Earthwork Operations.

Femporary Diversion Swales.

Staging Areas, Material Storage Areas, & Fueling Stations. Drary Seed Disturbed Areas If To Be Disturbed More Than 7 Days.

Frenching For Storm Sewers.

Ditch Inlet Protection.

Storm Sewer Discharge Location. ete Subgrade Operations.

Storm Sewers.

Grading.

Permanent Seeding.

struction Entrance Locations And Specifications (At All Points Of Ingress And

Shall Utilize Existing Streets And Drives As Much As Possible For Construction gress. The Contractor Shall Keep Public Roads And Private Drives Clear And ust, Dirt, And Debris As A Result Of Construction Activities. Temporary Intrances Shall Meet The Requirements Of INDOT Standard Drawing E

Control Measures For Sheet Flow Areas

trol In Areas Of Sheet Flow Shall Be Handled Via Silt Fence And Temporary nt Seeding. See The Plan And Profile Sheets, The Erosion Control Sheets, The ol Details, The Erosion Control Notes, And INDOT Standard Drawing No. E

Control Measures For Concentrated Flow Areas

trol In Areas Of Concentrated Flow Shall Be Handled Via Inlet Protections. See Control Sheets, The Erosion Control Details, And INDOT Standard Drawing No. E

er Inlet Protection Measure Locations And Specifications

Protected From Sediment During Construction Using Temporary Erosion Bag Protection From The INDOT Standard Drawings. See The Erosion Control DOT Standard Drawing No. E 205-TECI-04.

trol Measures (e.g. Diversions, Rock Check Dams, Slope Drains, Etc.) Controlled By Curb And Gutter, Inlets, And Permanent Seeding. The Runoff Through A Dry Detention Basin Which Will Outlet To Wheeler And Wheeler See The Plan And Profile Sheets.

Outlet Protection Specifications

'ill Discharge To The Extended Dry Detention Basin, Which Was Sized Based es From The Hamilton County Surveyor's Office And The Noblesville echnical Standards Manual And Does Not Require Specific Outlet Protection. And Profile Sheets.

ilization Structure Locations And Specifications. lization Will Not Be Required For This Project.

Dimensions, Specifications, And Construction Details Of Each Stormwater

And Profile Sheets, Erosion Control Sheets, Erosion Control Details Sheet, Notes Sheet, And The Applicable INDOT Standard Specifications And

Surface Stabilization Methods Appropriate For Each Season. eding Shall Be Implemented For All Disturbed Land Let Inactive For A Period

Surface Stabilization Specifications.

eding Shall Be Implemented For All Disturbed Land And Shall Occur Once Final een Completed. See The Plan And Profile Sheets And Erosion Control Details

Rule 5 Checklist - Section B: (Continued)

13. Material Handling And Spill Prevention Plan

Vehicle And Equipment Maintenance: Onsite Vehicle And Equipment Maintenance Shall Only Be Used Where It Is Impractical To Send Vehicles And Equipment Offsite For Maintenance And Repair. For Onsite Maintenance, Locate Maintenance Area At Least Fifty (50) Feet From Storm Drains, Open Ditches, Or Bodies Of Water. Use Drip Pans And Absorbent Pads During Vehicle And Equipment Maintenance Work That Involves Fluids, Unless The Maintenance Work Is Performed Over An Impermeable Surface In A Designated Maintenance Area. Properly Dispose Of Used Oils, Fluids, Lubricants, And Spill Cleanup Materials. Do Not Place Used Oil In A Dumpster Or Pour Into A Storm Drain Or Watercourse. Inspect Onsite Vehicles And Equipment For Leaks Daily At The Startup, And Repair Immediately.

Vehicle Fueling: Onsite Vehicle And Equipment Fueling Shall Only Be Used Where It Is Impractical To Send Vehicles And Equipment Offsite For Fueling. For Onsite Fueling, Locate Fueling Area At Least Fifty (50) Feet From Storm Drains, Open Ditches, Or Bodies Of Water. Use Drip Pans And Absorbent Pads During Fueling, Unless The Fueling Is Performed Over An Impermeable Surface In A Designated Fueling Area. Nozzles Used In Vehicle And Equipment Fueling Shall Be Equipped With An Automatic Shutoff To Control Drips. Do Not Place Used Oil In A Dumpster Or Pour Into A Storm Drain Or Watercourse. Fueling Operations Shall Not Be Left Unattended. Observe Federal, State, And Local Requirements For Any Stationary Above Ground Storage Tanks.

Debris Collection: Litter And Debris Removal From Drainage Grates, Trash, Rocks, And Ditch Lines Shall Be A Priority To Prevent Clogging Of The Storm Drainage System. Remove Construction Debris And Waste From The Site Biweekly Or More Frequently As Needed. Store Construction Material Visible To The Public In An Orderly Manner. Prevent Stormwater From Contacting Solid Waste.

Concrete Washout: Perform Washout Of Concrete Trucks Offsite Or In Designated Areas Only. For An Onsite Washout, Locate Washout Area At Least Fifty (50) Feet From Storm Drains, Open Ditches, Or Bodies Of Water. Do Not Allow Runoff From This Area By Constructing A Temporary Berm Or Holding Area Large Enough For Liquid And Solid Waste Wash Out Waste Into The Designated Area Where The Concrete Can Set And Be Broken Up And Then Disposed Of Properly. Do Not Wash Out Concrete Trucks Into Storm Drains, Open Ditches, Streets, Or Streams. Do Not Allow Excess Concrete To Be Dumped Onsite, Except In Designated Areas.

Alert Procedure For Spills: In The Event Of A Material Spill (Fuel, Oil, Fluids, Lubricants, Etc.), Barricade The Area To Keep Vehicles From Entering Or Leaving The Spill Zone. Notify The Indiana Department Of Environmental Management (IDEM), Office Of Emergency Response, By Calling The Appropriate Phone Number: Office 317-233-7745 Or Toll Free 800-424-88023. Also, The National Response Center Can Be Contacted At 800-424-8802. Provide The Following Information: Time Of Observation Of The Spill, Location Of The Spill, Identify The Material Spills, Probable Time And Source Of The Spill, Weather Conditions, Personnel At The Scene, And Action Initiated By Personnel. Notify The Local Fire Department And Police Department. Coordinate And Monitor Cleanup Until The Situation Has Been Stabilized And The Spill Has Been Eliminated.

14. Monitoring And Maintenance Guidelines For Each Proposed Stormwater Quality Measure. The Contractor Shall Maintain All Water Quality Measures During Construction To Prevent Any Blockages From Accumulated Sediment. Monitoring Of The Protective Measures Shall Be Done On A Weekly Basis, And Again Within 24 Hours Of Every Half-Inch Rain Event. Maintenance Shall Include A Written Record Of Each Inspection By Filling Out The Storm Water, Erosion, And Sediment Control Inspection Report Included In INDOT RSP 108-C-192D. The Written Record Shall Be Made Available Upon Request.

Temporary Construction Entrance:

- Inspect Weekly, Within 24 Hours Of Every Half-Inch Rain Event, And After Heavy Use.
- Reshape Pad As Needed
- Top Dress Pad As Needed.
- D. Immediately Remove Any Mud And Sediment Tracked Or Washed Onto The Street Using Brushing Or Sweeping. Flush Area Only If Runoff Will Be Flowing Through A Sediment Trap.
- E. Repair Any Damaged Pavement Immediately.

Silt Fence:

- Replace If Torn, Starts To Degrade, Or Becomes Ineffective In Any Way. B. Remove Sediment When It Reaches Half Of The Fence Height, Taking Care Not To
- Undermine. Remove Trash And Other Debris From Riser, Emergency Spillway, And Pool Area.
- D. Clean Or Replace Aggregate Around The Riser If The Sediment Pool Does Not Dewater Within 48 To 72 Hours Following A Stormwater Runoff Event.

Temporary Inlet Protection:

- A. Inspect Daily And Following Each Storm Event.
- B. Remove Accumulated Sediment As Needed To Maintain Drainage And To Prevent Large Flows From Displacing Sediment.
- C. Add Aggregate As Needed To Maintain Design Height And Cross Section.

Seeding:

- Monitor Until It Reaches 70% Coverage.
- Reseed As Needed. C. Install Additional Erosion Control To Help Establish Cover.

Concrete Washout:

- A. Inspect Weekly, Within 24 Hours Of Every Half-Inch Rain Event, And After Heavy Use.
- Repair Or Replace Leaks, Spills, And Tears As Needed. C. Ensure Each Containment System Maintains Adequate Capacity.
- Check And Maintain Any Additional Erosion Control Measures As Needed.

15. Erosion & Sediment Control Specifications For Individual Building Lots. N/A.

RECC FOR A	OMMENDED	DESIGN EN	NGINEER	DATE	
DESIG	GNED:	KLW	DRAWN:	BEH	
CHEC	KED:	ACE	CHECKED:	KLW	

Rule 5 Checklist - Section C: Stormwater Pollution Prevention Plan-Post Construction Component

1. Description Of Pollutants And Their Sources Associated With The Proposed Land Use. The Pollutants From The Proposed Land Use Shall Be The Same As The Pollutants From The Existing Land Use; Vehicular Traffic, Littler, And Their Associated Pollutants. See The Potential Storm Water Pollutants And Spill Prevention Handling Table Located On The Erosion Control Notes.

2. Sequence Describing Stormwater Quality Measure Implementation.

Typical Construction Sequence Schedule: 1. Install Water Quality BMPs Before Draining The Proposed Storm Network Into Wheeler And Wheeler Legal Drain.

2. All Disturbed Ground Shall Be Permanently Seeded Immediately After Final Grading Or When The Project Is Substantially Complete.

3. Silt Fence And Inlet Protections Shall Be Removed After Disturbed Soil Areas Have Been Stabilized.

3. Description Of Proposed Post Construction Stormwater Quality Measures. All Disturbed, Non-Paved Areas Will Be Seeded. All On-Site Runoff Will Be Routed Through The Extended Dry Detention Basin.

4. Location, Dimensions, Specifications, And Construction Details Of Each Stormwater Quality Measure.

See The Erosion Control Sheets, The Erosion Control Details, The Erosion Control Notes, And The Applicable INDOT Standard Specifications And Drawings.

5. Description Of Maintenance Guidelines For Post Construction Stormwater Quality Measures. The Contractor Shall Ensure That Revegetated Areas Become Fully Established And Shall Water And Reseed As Necessary. The Owner Shall Clean Up Trash And Shall Perform Maintenance On The Storm Sewer System At Regularly Scheduled Intervals. The Extended Dry Detention Basin Shall Be Maintained Per The Specifications In Chapter 7 Of The Noblesville Stormwater Technical Standards Manual.

INDIANA	HORIZONTAL SCALE NONE	BRIDGE FILE	
DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION	827
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FROM STATION	TO STATION	THERMOPLASTIC SOLID WHITE, 4"	THERMOPLASTIC SOLID YELLOW, 4"	THERMOPLASTIC BROKEN WHITE, 4"	THERMOPLASTIC BROKEN YELLOW, 4"	THERMOPLASTIC SOLID WHITE, 6"	THERMOPLASTIC SOLID YELLOW, 8"	THERMOPLASTIC SOLID WHITE, 8"	THERMOPLASTIC SKIP WHITE, 4" (5' Line, 3' Spa.)	THERMOPLASTIC DOTTED WHITE, 12" (2' Line, 2' Spa.)	TRANSVERSE MARKINGS, YIELD TRIANGLE, WHITE	TRANSVERSE MARKINGS CROSSHATCH LINE, YELLOW, 12"	TRANSVERSE MARKINGS STOP BAR, 24"	TRANSVERSE MARKINGS CROSSWALK, 6"	PVMNT. MESSAGE THERMOPLASTIC WORD (YIELD)	PVMNT. MESSAGE THERMOPLASTIC FISH HOOK ARROW
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SHEET SIGN & POST SUMMARY

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17+00 Rt.	W2-6	30"x30"	6.25										
	W16-8-1	30"x12"	2.50										
	W13-1P	18"x18"	2.25										
18+90 Lt.	R4-7	24"x30"	5.00										
19+00 Rt.	R3-6 (Mod.)	30"x36"	7.50										
19+78 Rt.	R1-2	36"x36"x36"	5.00										
20+26.5	R6-1	36"x12"	3.00										
	R6-4a	48"x24"	8.00										
20+54.5	R6-1	36"x12"	3.00										
	R6-4a	48"x24"	8.00										
20+59.5	R6-1	36"x12"	3.00										
	R6-4a	48"x24"	8.00										
Line "PR-1"													
21+10 Lt.	R1-2	36"x36"x36"	5.00										
21+11 Rt.	W11-2	30"x30"	6.25										
	W16-7P	24"x12"	2										
21+45 Lt.	W11-2	30"x30"	6.25										
	W16-7P	24"x12"	2.00										
22+25 Lt.	R3-6 (Mod.)	30"x36"	7.50										
22+50 Lt.	R4-7	24"x30"	5.00										
25+00 Lt.	W2-6	30"x30"	6.25										
	W16-8-1	30"x12"	2.50										
	W13-1P	18"x18"	2.25										
Line "PRS-1-A"													
50+58 Lt.	R1-2	30"x36"	5.00										
51+08 Lt.	R4-7	24"x30"	5.00										
51+50 Lt.	R3-6 (Mod.)	36"x36"x36"	7.50										
54+50 Lt.	W2-6	30"x30"	6.25										
	W16-8-2	36"x12"	3.00										
	W13-1P	18"x18"	2.25										
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22+95.00	53+51 "PRS-1-A"			Х	477								
23+10.00	24+51.00			X	143								
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50+60.00				X								1	
50+65.00		Х										1	
50+75.00				Х							1		
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Total					1408						6	12	

RECOMMENDED FOR APPROVAL:	DESIGN ENGIN	NEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE NONE VERTICAL SCALE NONW	BRIDGE FILE DESIGNATION 1401716	5827
DESIGNED:	KLW DR	AWN:	BEH		SURVEY BOOK 356	SHEET 19 OF	
CHECKED:	ACE CH	ECKED:	KLW	MISCELLANEOUS TABLES	CONTRACT R-38246	PROJECT 1401716	BFS NO

TEMPORARY EROSION CONTROL TABLE

									S	SUMI	MAF	RY (OF ()U		ΓΙΤ	IES	5 A	ND		PP	RO	AC	H'	TAE	BLE											
					BEYO	SURFACE OND R/W LINE				HMA FO #CH #"4"		CHES/PAT	ANDS H	AQ\JQ EDIATE			EDIATE	INE	HMA FO		IP. PAVEN	MENT		NT TYPE II	TMENT	ASPHALT IATERIAL FOR		JOINTS	z	ACHES	CRETE CURB	CRETE CURB	OMBINED GUTTER	ROLL TER	JRB		
LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	COMPACTED BREGATE BASE	HMA CONCRETE	GRADE	EXCA	VATION	HMA TYPE FOR APPRO	HMA TYPE SURFAC	HMA TYPE INTERMEDI	HMA FOR ISL TYPE "A 2, 70, SURF	12.5mn 2, 70, INTERM	19.0mn 3, 76, BA 25.0mn	3, 76, BA 25.0mm	5, 76, INTERM C19.0m		HMA TYPE	НМА ТҮРЕ	HMA TYPE		SUBGRAUE IKEA TYPE IB	grade treatme	SUBGRADE TREA TYPE III	FACK COAT	FOR BASE NO. 53	-1 CONTRACTION	PCCP, 7.5 I	PCCP FOR APPRO 9 IN.	Combined Conc & Gutter	Combined Conc & Gutter	-0" INVERTED CC DNCRETE CURB &	2'-0" CONCRETE CURB & GUT	CONCRETE CI	REM	ARKS
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10	18+92.00	X	15	II	Inlet, Type B-15	32	2.0	816.49	816.38	75	NA	7	1							819.48	11		
11	18+92.00	X	15	II	Manhole, Type C-15	82	2.3	816.38	816.11	75	NA	7	2							819.48	14		
12	19+50.00	X	12	II	Inlet, Type E-7	22	2.2	817.00	816.91	75	NA	7	2							820.43	13		
13	19+75.00	X	21	II	Manhole, Type C-15	53	4.5	813.98	813.87	75	NA	7	1							820.06	14		
14	19+75.00	X	21	II	Manhole, Type C-15	65	3.7	813.87	813.74	75	NA	7	2							820.01	31		
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15	21+02.00	X	12		Inlet, Type E-7	30	1.7	814.50	814.37	75	NA	/	2							816.60	16		
16	21+10.00	X	15	II	Inlet, Type C-15	52	4.1	814.27	814.10	75	NA	7	1							819.40	17		
17	21+10.00	X	15	II	Manhole, Type C-15	101	4.1	814.10	813.76	75	NA	7	2							819.47	31		
18	21+60.00	X	15	II	Inlet, Type E-7	51	2.3	814.42	814.25	75	NA	7	1		1					816.33	19		
19	21+60.00	X	15	II	Manhole, Type C-4	47	3.6	814.25	814.10	75	NA	7	2							819.08	17		
20	21+85.00	X	15	II	Inlet, Type B-15	32	2.0	815.87	815.76	75	NA	7	1							818.87	21		
21	21+85.00	X	15	II	Inlet, Type C-15	22	2.0	815.76	815.69	75	NA	7	2							818.87	19		
22	23+14.00	X	12	II	Pipe	25	0.2	818.47	818.37	75	NA	7	2		2								
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23	50+60.00	X	18	II	Manhole, Type C-15	53	4.6	814.09	813.98	75	NA	7	2							820.01	13		
24	50+67.00	X	15	II	Inlet, Type B-15	50	2.0	816.96	816.79	75	NA	7	1							819.93	23		
25	50+75.00	X	12	II	Inlet, Type E-7	15	2.6	816.50	816.44	75	NA	7	2							820.12	23		
26	51+95.00	X	15	II	Inlet, Type C-15	30	2.9	814.82	814.72	75	NA	7	2							819.02	27		
27	51+95.00	X	15	II	Inlet, Type C-15	10	2.7	814.72	814.68	75	NA	7	2		1					819.01	28		
28	52+05.00	X	18	II	Manhole, Type C-15	146	3.5	814.57	814.19	75	NA	7	2							818.06	23		
29	52+07.00	X	12	II	Inlet, Type E-7	19	1.3	815.00	814.92	75	NA	7	1							817.22	26		
100	51+00.00	X	15	II	Adjust Casting to Grade	35	1.7	814.79	814.67	75	NA	7	2							817.66	28		
	<u>Line "T-1-A"</u>																						
31	51+00.00	X	24	II	Manhole, Type C-4	16	0.8	813.68	813.65	75	NA	7	2		1					817.76	105		
105	52+91.70	X	15	II	Inlet, Type E-7 Mod.	260	3.9	809.95	805.70	75	NA	7	20								Exst.		
																							
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										FOR	APPROVAL:											DECIONATION	
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DESIGNED:	KLW	DRAWN:	BEH		SURVEY BOOK 356	SHEET 20 OF	
CHECKED:	ACE	CHECKED:	KLW	APPROACH & STRUCTURE DATA TABLES	CONTRACT R-38246	PROJECT 1401716	BFS NC

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