

# APPENDIX A

## **CONSTRUCTION PLANS**

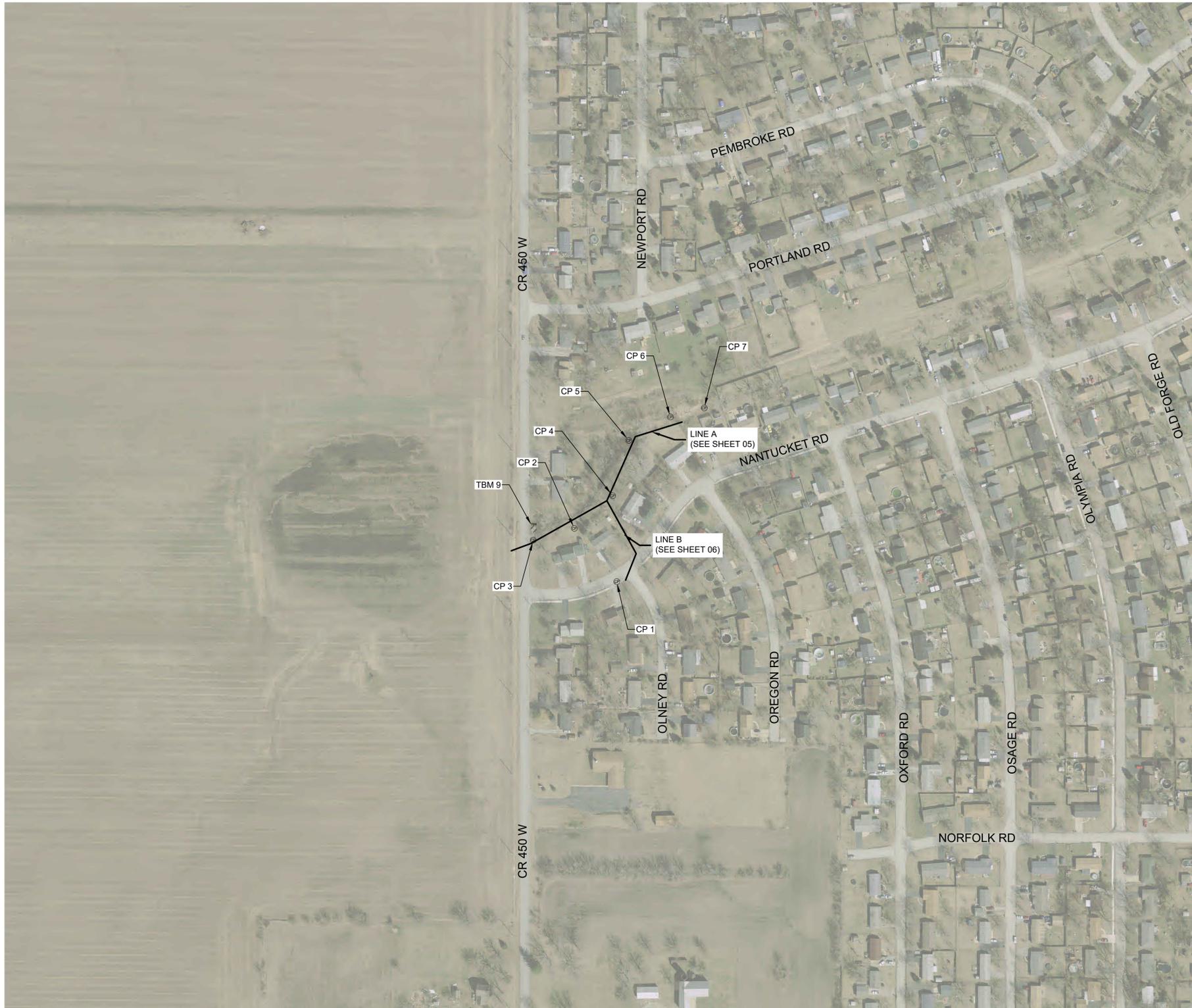
FOR

## **OLNEY ROAD DRAINAGE IMPROVEMENTS**

PORTER CO. DEPARTMENT OF DEVELOPMENT & STORMWATER MANAGEMENT

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2013 IMAGERY FROM INDIANA STATE MAP.

**LOCATION AND SCOPE OF WORK PLAN**



**HORIZONTAL AND VERTICAL CONTROL INFORMATION**

**NOTES:**

1. A FIELD SURVEY WAS PERFORMED IN (JANUARY 2023).
2. COORDINATES (INDIANA STATE PLANE, WEST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.
3. UNITS ARE U.S. SURVEY FEET.
4. CONTROL POINTS WERE SET USING GPS.
5. A LEVEL LOOP WAS PERFORMED ON THE CONTROL POINTS AND TBMS.

**BENCHMARK DESCRIPTION:**

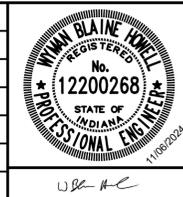
1. TBM NO. 9 - CUT SQUARE SOUTHEAST CORNER ON THE HEADWALL APPROXIMATELY 10' EAST OF CR 450 WEST AND 162' NORTH OF NANTUCKET DRIVE. EL 675.13

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	LOCATION PLAN AND DRAWING INDEX
03	GENERAL NOTES AND ABBREVIATIONS
PLAN & PROFILES	
04	EXISTING CONDITIONS AND DEMOLITION PLAN
05	PLAN AND PROFILE - LINE A
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EROSION CONTROL PLAN	
07	EROSION CONTROL PLAN
DETAILS	
08	MISCELLANOUES DETAILS
09 - 11	PORTER COUNTY STANDARD DETAILS
STRUCTURE DATA TABLE	
12	STRUCTURE DATA TABLE

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	2286705.24	2933906.90	674.49	MAGNAIL
CP 2	2286837.70	2933801.05	675.71	5/8" REBAR
CP 3	2286808.32	2933698.53	675.37	5/8" REBAR
CP 4	2286918.85	2933896.74	675.00	5/8" REBAR
CP 5	2287056.43	2933936.90	673.09	5/8" REBAR
CP 6	2287114.88	2934040.41	671.09	5/8" REBAR
CP 7	2287137.37	2934125.16	670.74	5/8" REBAR

Drawing: X:\Porter County\255822-Porter County On-Call\CAD - TO1 Olney Road\DWG\Sheets\255822-GS-Olney Rd.dwg | Layout: 1GZ | Plotter: 11/02/24 @ 01:03:06 | LastSavedBy: levisl

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	KNM				
	APPROVED BY	WBH				
	ISSUE DATE	NOVEMBER 2024				
	PROJECT NUMBER	255822-TO1				



<b>OLNEY ROAD DRAINAGE IMPROVEMENTS</b> PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN
<b>LOCATION PLAN AND DRAWING INDEX</b>

SHEET NO.	<b>02</b>
TOTAL SHEETS	<b>12</b>

**EXISTING FEATURES LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
	TEMPORARY BENCH MARK		ELECTRIC METER		LOT BOUNDARY
	SOIL BORING LOCATION		AIR CONDITIONING UNIT		PROPERTY BOUNDARY
	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		CONTOUR - INTERMEDIATE ELEVATION
	BOAT SPIKE (SET/FOUND)		LIGHT POLE		CONTOUR - INDEX ELEVATION
	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE		OVERHEAD ELECTRIC
	RAILROAD SPIKE (SET/FOUND)		LIGHT ON JOINT POLE		OVERHEAD CABLE TV
	R/W MARKER - CONCRETE/GRANITE/STONE		POWER POLE		OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)		TELEPHONE POLE		UNDERGROUND CABLE TV
	BRASS PLUG		LAMP POST		UNDERGROUND ELECTRIC
	CABLE TV MANHOLE		GUY ANCHOR		UNDERGROUND FIBER OPTIC
	ELECTRIC MANHOLE		GUY POLE OR STUB		GAS MAIN
	GAS MANHOLE		CONTROLLER CABINET		DIGESTER GAS
	OTHER MANHOLE		FLAG POLE		PETROLEUM MAIN
	TELEPHONE MANHOLE		POST		UNDERGROUND TELEPHONE
	TELEPHONE VAULT		GROUND LIGHT		WATER MAIN
	TRAFFIC MANHOLE		MAILBOX		WATER SERVICE
	TRAFFIC HANDHOLE		DOUBLE/MULTIPLE MAILBOX		FORCEMAIN
	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		FENCE - METAL
	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET		SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
	DOWNSPOUT		TREE - DECIDUOUS		
	GAS METER		ROCK OUTCROP		
	GAS VALVE		SATELLITE		
	GAS SERVICE VALVE		SPRINKLER CONTROL VALVE		
	PETROLEUM VALVE		WATER METER		
	PETROLEUM SHUTOFF VALVE		WATER VALVE		
	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
	GAS STATION FILL CAP		WATER WELL		
	NATURAL GAS WELL/STORAGE WELL		WET WELL		
	SPRINKLER HEAD		FIRE HYDRANT		
	YARD HYDRANT		PROCESS VALVE		



**TABLE OF ABBREVIATIONS**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
APP	APPARENT	LB	POUND(S)
APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
ASPH	ASPHALT	LN	LANE
ASSOC	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING
AVE	AVENUE	MJ	MECHANICAL JOINT
AVG	AVERAGE	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLVD	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN	MINIMUM
CO	CLEANOUT	MISC	MISCELLANEOUS
CI	CAST IRON	MNFR	MANUFACTURER
CL	CENTER LINE	N	NORTHING, NORTH
CMA	COLD MIX ASPHALT	NGS	NATIONAL GEODETIC SURVEY
CMP	CORRUGATED METAL PIPE	NO.	NUMBER
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	PC	POINT OF CURVE (BEGIN CURVE)
CNR	CORNER	POLY	POLYETHYLENE
CP	CONTROL POINT	PI	POINT OF INTERSECTION
CPP	CORRUGATED PLASTIC PIPE	POT	POINT ON TANGENT
CR STN	CRUSHED STONE	PT	POINT OF TANGENT (END CURVE)
CYD	CUBIC YARD	PSI	POUNDS PER SQUARE INCH
D	DEPTH	PT	POINT
DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
DI MJ	DUCTILE IRON MECHANICAL JOINT	R	RADIUS
DBL	DOUBLE	ROW	RIGHT-OF-WAY
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RD	ROAD
DIPS	DUCTILE IRON PIPE SIZE	S	SOUTH
DR	DRIVE	SR	STATE ROUTE
E	EASTING, EAST	SST	STAINLESS STEEL
EF	EACH FACE	SVA	SERVICE VALVE ASSEMBLY
EW	EACH WAY	SB	SOIL BORING
EA	EACH	SCHED	SCHEDULE
EJ	EAST JORDAN IRON WORKS	SDR	STANDARD DIMENSION RATIO
EL	ELEVATION	SECT	SECTION
EX	EXISTING	SF	SQUARE FEET
EXP	EXPANSION	SHT	SHEET
FFE	FINISH FLOOR ELEVATION	SPECS	SPECIFICATION(S)
FM	FORCE MAIN	SQ	SQUARE
FND	FOUND	SRF	STATE REVOLVING FUND
FT	FEET	ST	STREET
FTG	FOOTING	STA	STATION
GALV	GALVANIZED	SYD	SQUARE YARD
GPS	GLOBAL POSITIONING SYSTEM	TBM	TEMPORARY BENCHMARK
HMA	HOT MIX ASPHALT	TC	TOP OF CASTING
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	USGS	US GEOLOGICAL SURVEY
IE	INVERT ELEVATION	VERT	VERTICAL
INC	INCORPORATED	VLV	VALVE
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	W	WIDTH, WEST
INSTR	INSTRUMENT	WSE	WATER SURFACE ELEVATION
INV	INVERT	YR	YEAR

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

**UTILITY CONTACTS**

SEWER	CABLE	WATER	ELECTRIC	GAS	TELEPHONE	PIPELINE
AQUA INDIANA SOUTH HAVEN 5750 CASTLE CREEK PKWY N DR, SUITE 314 INDIANAPOLIS, IN 46250 260-403-9496 ATTN: SARAH BAKER	COMCAST NORTH 16 W 84TH DR. MERRILLVILLE, IN 46410 574-320-8203 ATTN: LARRY SMITH	IN AMERICAN WATER (NORTHWEST) 153 NORTH EMERSON AVE GREENWOOD, IN 46143 219-290-7327 ATTN: RACHEL ALFARO	NIPSCO ELECTRIC (VALPARAISO) 801 EAST 86TH AVE MERRILLVILLE, IN 46410 260-319-6424 ATTN: RACHEL DETLEV	NIPSCO GAS (VALPARAISO) 801 EAST 86TH AVE MERRILLVILLE, IN 46410 219-384-6405 ATTN: MELISSA COWAN	FRONTIER 8001 W JEFFERSON BLVD FORT WAYNE, IN 46804 219-962-4689 ATTN: DENNIS PROTEGA	BUCKEYE 610-904-4409 ATTN: DAVID JONES

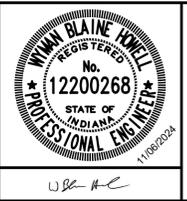
**GENERAL NOTES:**

- NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.
- ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.
- USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER.
- TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR, OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
- OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
- ALL PRIVATE WELL LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY AND DETERMINE EXACT LOCATIONS OF ALL PRIVATE WELLS IN THE PROJECT AREA.
- ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, ALL INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.
- DETERMINE WHICH UTILITIES MAY CONFLICT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
- EXISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
- COORDINATE ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
- COORDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES' AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
- USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
- MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.
- DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.
- COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
- ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
- TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY. VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
- LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER TO CENTER OF STRUCTURES.
- NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
- VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
- ADJUST SEWER LATERALS AS NECESSARY TO AVOID CONFLICTS. LATERALS THAT REQUIRE FIELD ADJUSTMENT SHALL BE LAID AT NO LESS THAN THE MINIMUM SLOPE AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
- INSTALL SEWER SERVICE LATERALS TO THE RIGHT-OF-WAY OR EDGE OF EASEMENT.
- ALL SANITARY SEWER PIPE, INCLUDING GRAVITY SEWERS, LATERAL WYES AND SERVICE LATERAL PIPE LOCATED WITHIN 50 FEET OF PRIVATE WELLS SHALL BE SDR 21 PVC WATER GRADE PRESSURE PIPE UNLESS SPECIFICALLY INDICATED OTHERWISE. ALL SANITARY SEWER PIPE, INCLUDING GRAVITY SEWERS, LATERAL WYES AND SERVICE LATERAL PIPE NOT LOCATED WITHIN 50 FEET OF PRIVATE WELLS SHALL BE SDR 35 PVC SEWER GRADE PIPE, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
- IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL PROPOSED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

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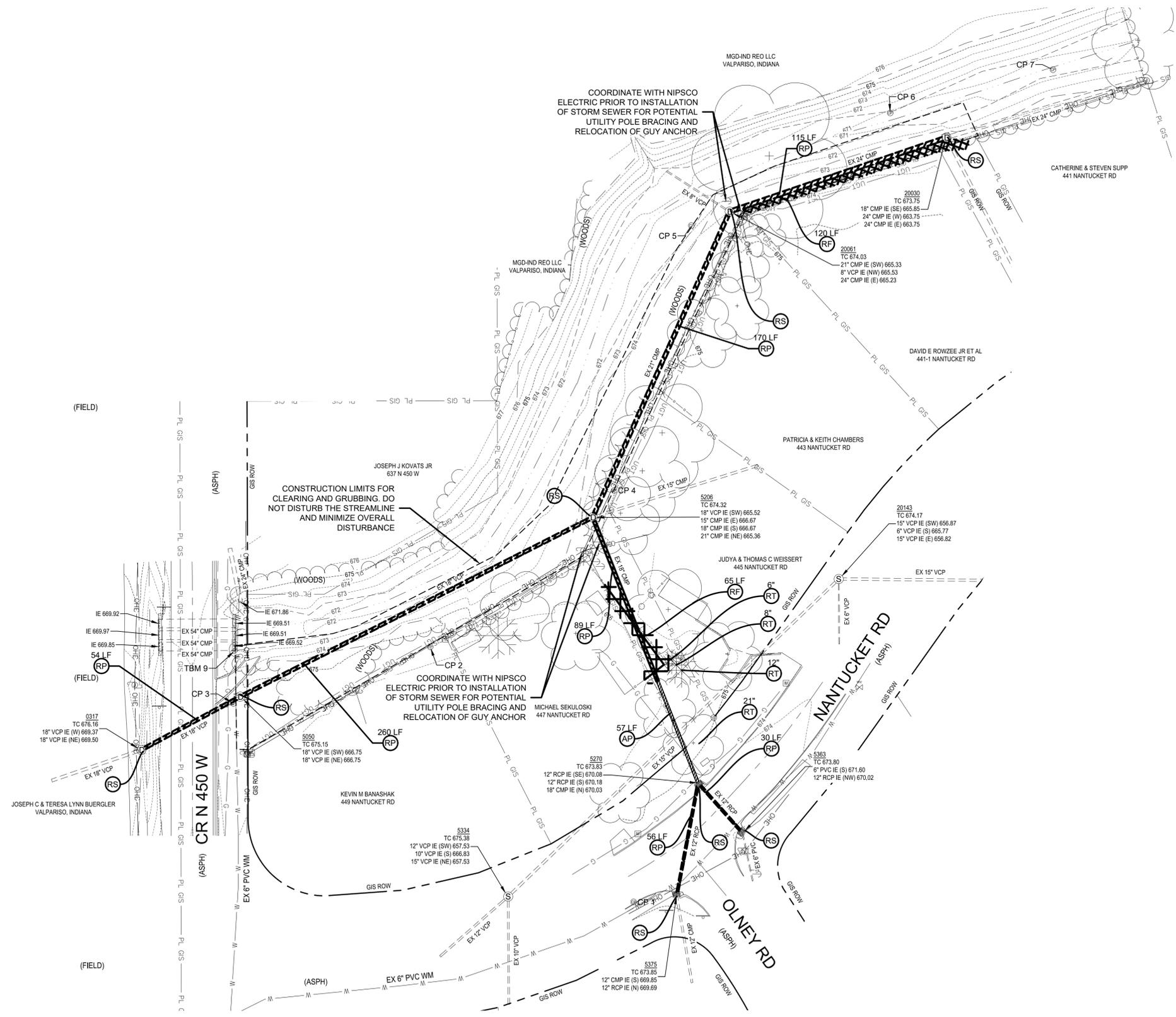
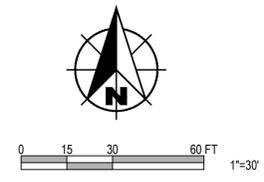


**OLNEY ROAD DRAINAGE IMPROVEMENTS**

PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

**GENERAL NOTES AND ABBREVIATIONS**

SHEET NO.	<b>03</b>
TOTAL SHEETS	<b>12</b>



**LEGEND AND KEYED NOTES**

- RP REMOVE PIPE COMPLETELY
- RS REMOVE STRUCTURE
- RF REMOVE AND REINSTALL FENCE
- RT REMOVE TREE
- AP ABANDON PIPE WITH NON-SHRINK GROUT

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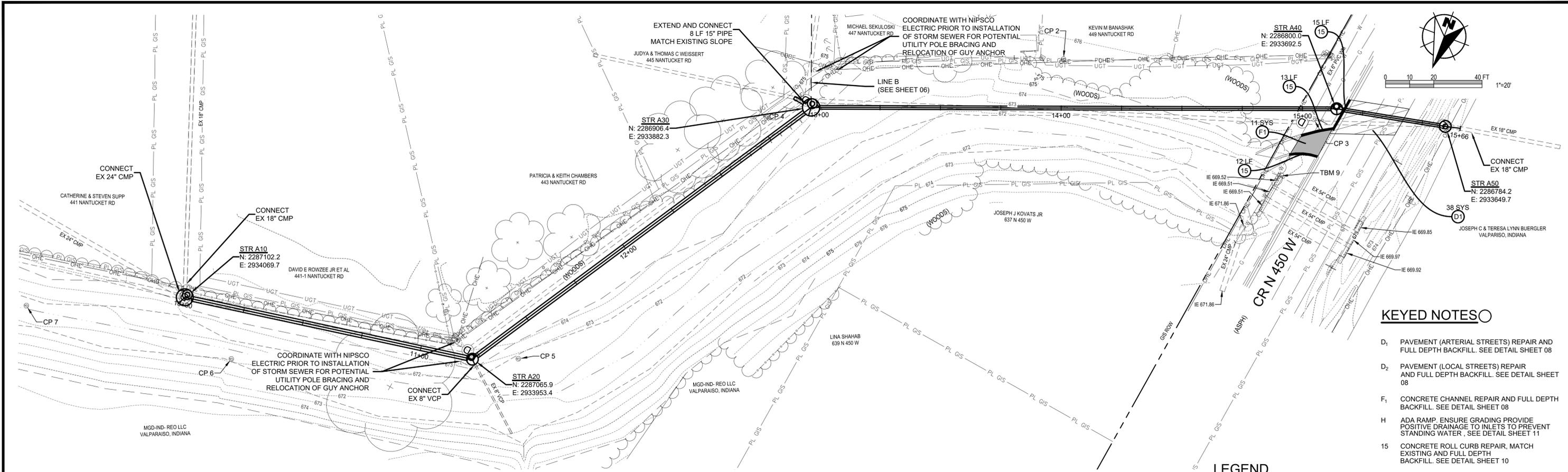
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**OLNEY ROAD DRAINAGE IMPROVEMENTS**  
 PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
 NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

**EXISTING CONDITIONS AND DEMOLITION PLAN**

SHEET NO.	<b>04</b>
TOTAL SHEETS	<b>12</b>

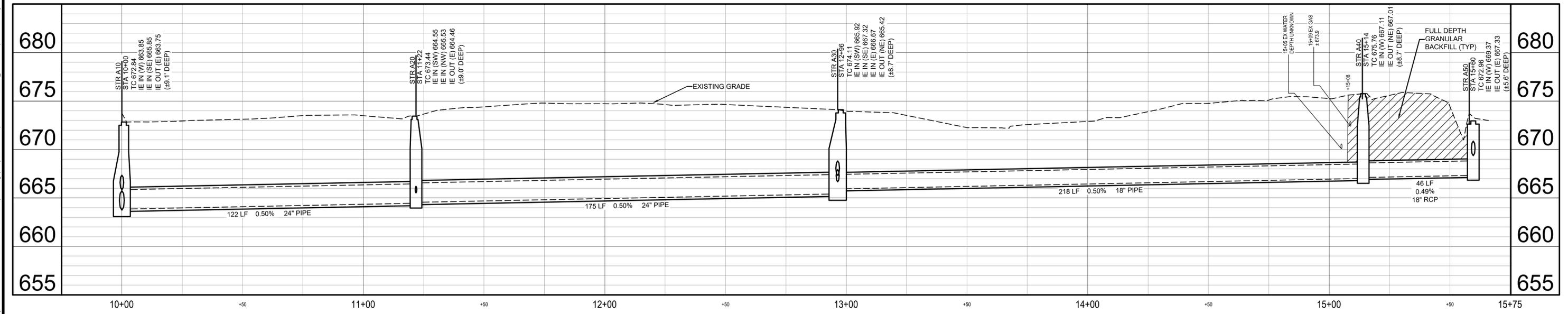


**PLAN - LINE A**  
SCALE: 1" = 20'

- KEYED NOTES**
- D<sub>1</sub> PAVEMENT (ARTERIAL STREETS) REPAIR AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 08
  - D<sub>2</sub> PAVEMENT (LOCAL STREETS) REPAIR AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 08
  - F<sub>1</sub> CONCRETE CHANNEL REPAIR AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 08
  - H ADA RAMP. ENSURE GRADING PROVIDE POSITIVE DRAINAGE TO INLETS TO PREVENT STANDING WATER. SEE DETAIL SHEET 11
  - 15 CONCRETE ROLL CURB REPAIR, MATCH EXISTING AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 10

**LEGEND**

- FULL DEPTH ASPHALT PAVEMENT
- CONCRETE REPLACEMENT



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 5'

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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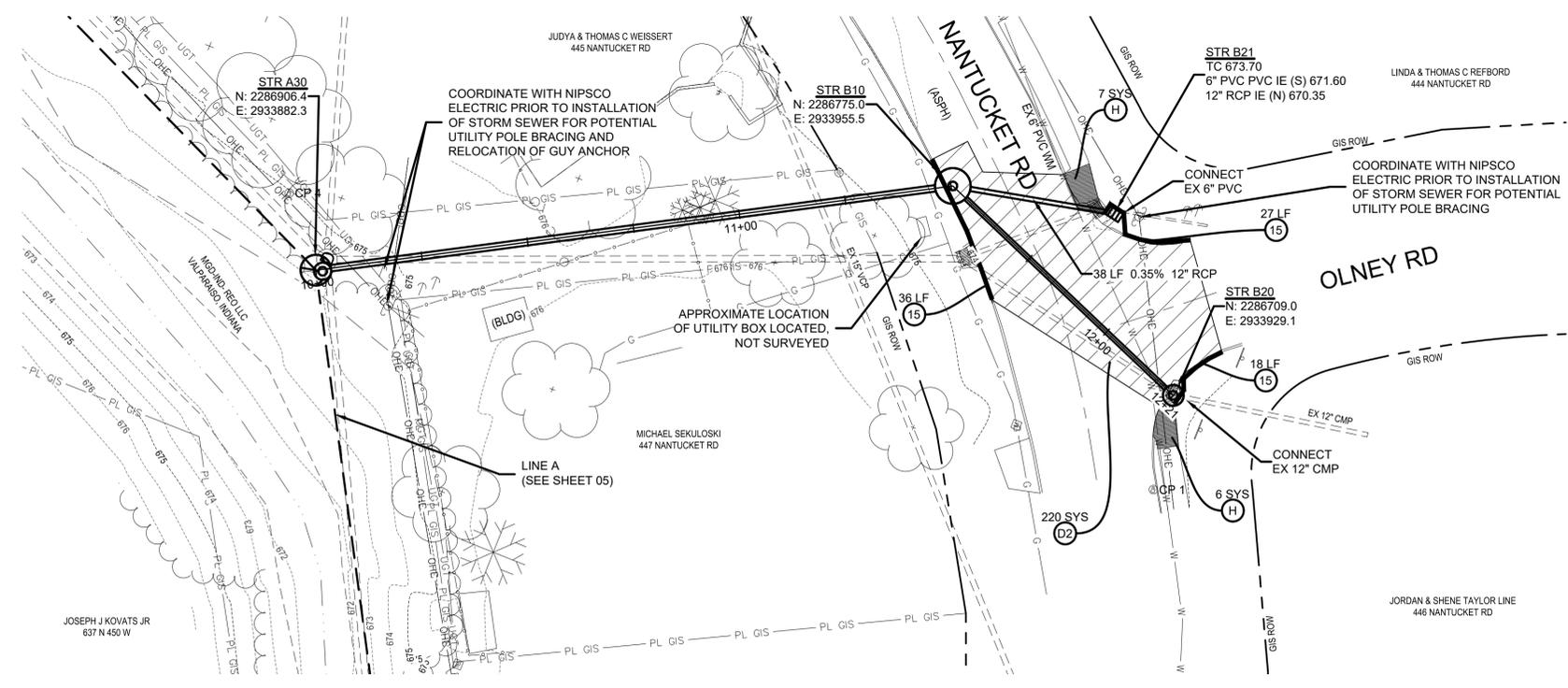


**OLNEY ROAD DRAINAGE IMPROVEMENTS**  
PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**05**  
TOTAL SHEETS  
**12**

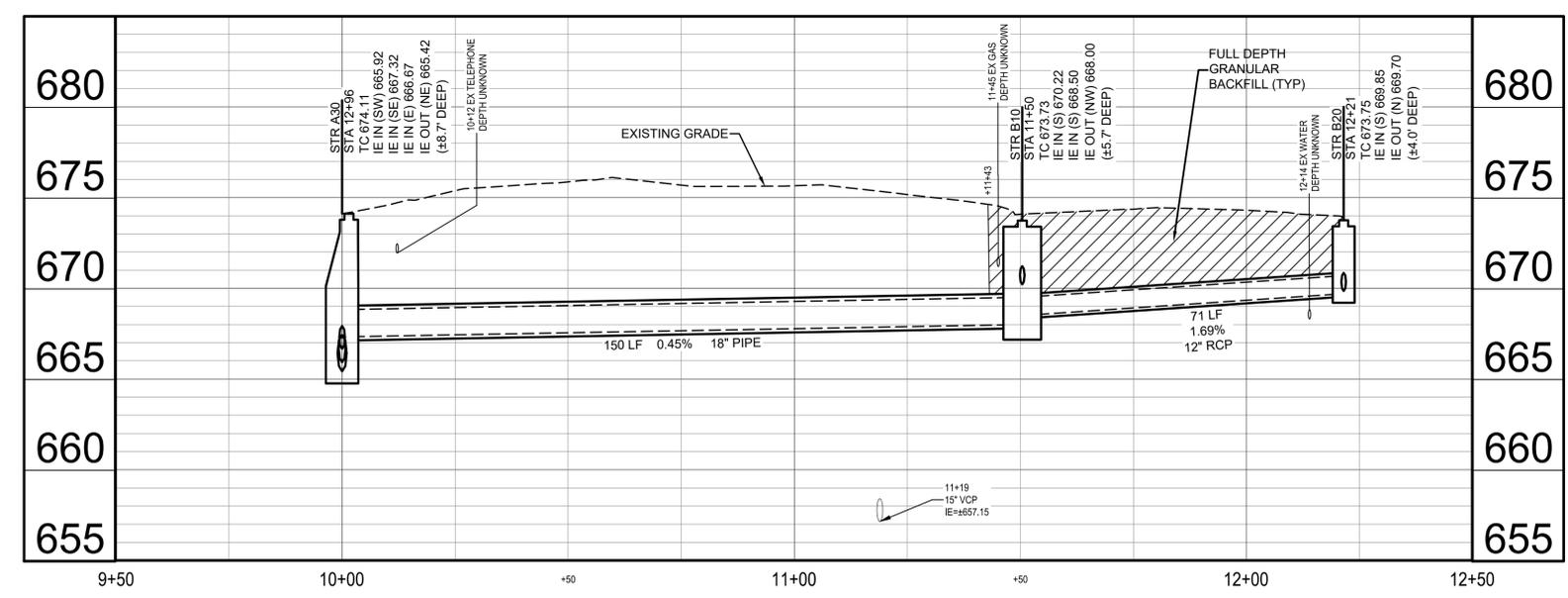
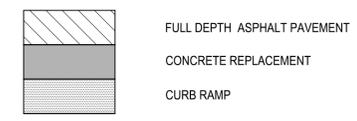
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**PLAN - LINE B**  
SCALE: 1" = 20'

- KEYED NOTES**
- D<sub>1</sub> PAVEMENT (ARTERIAL STREETS) REPAIR AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 08
  - D<sub>2</sub> PAVEMENT (LOCAL STREETS) REPAIR AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 08
  - F<sub>1</sub> CONCRETE CHANNEL REPAIR AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 08
  - H ADA RAMP. ENSURE GRADING PROVIDE POSITIVE DRAINAGE TO INLETS TO PREVENT STANDING WATER, SEE DETAIL SHEET 11
  - 15 CONCRETE ROLL CURB REPAIR, MATCH EXISTING AND FULL DEPTH BACKFILL. SEE DETAIL SHEET 10

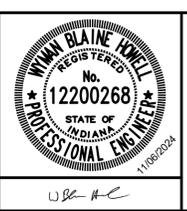
**LEGEND**



**PROFILE - LINE B**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 5'

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	PROJECT NUMBER	255822-TO1				

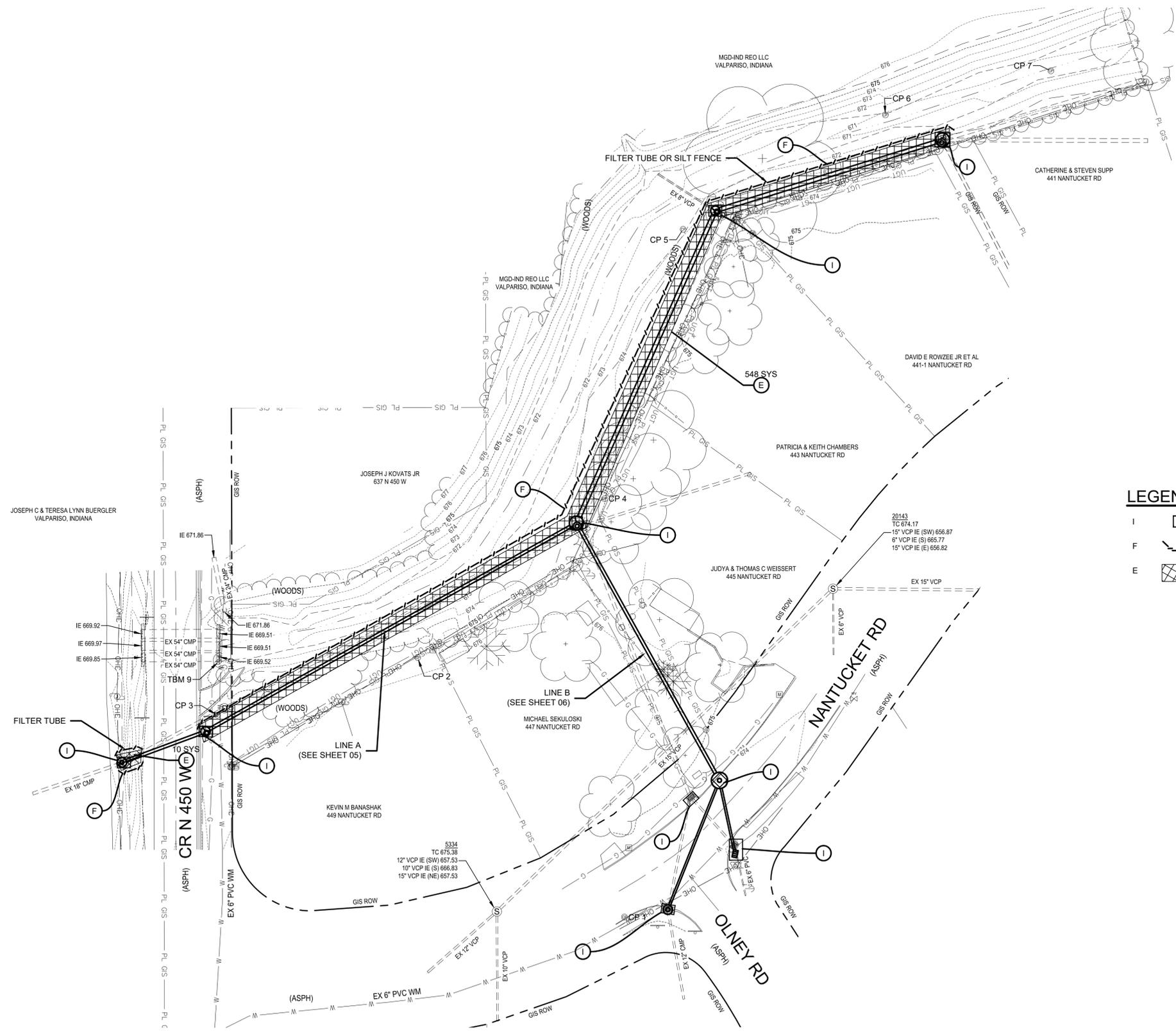
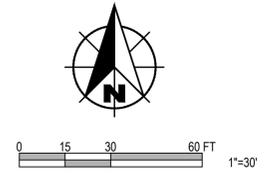


**OLNEY ROAD DRAINAGE IMPROVEMENTS**

PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

**PLAN AND PROFILE - LINE B**

SHEET NO.	<b>06</b>
TOTAL SHEETS	<b>12</b>



**LEGEND AND KEYED NOTES**

- I INLET PROTECTION
- F FIBER FILTRATION TUBE
- E EROSION CONTROL BLANKET

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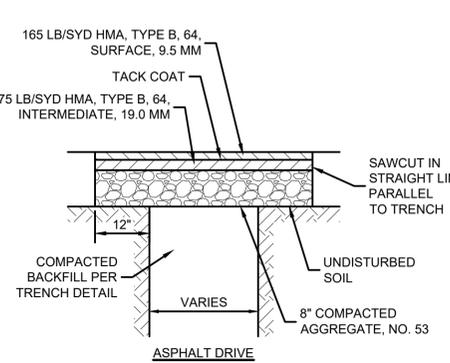
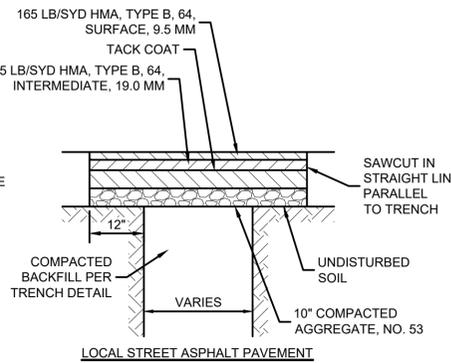
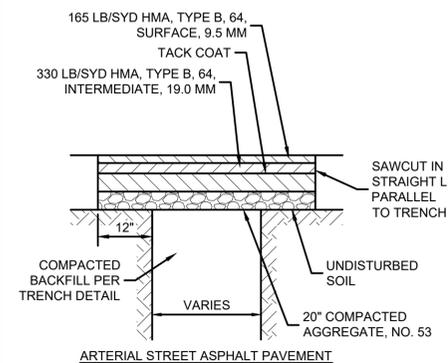
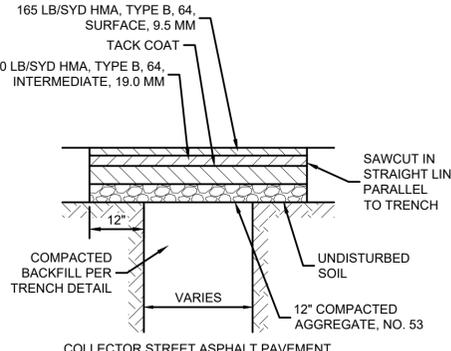
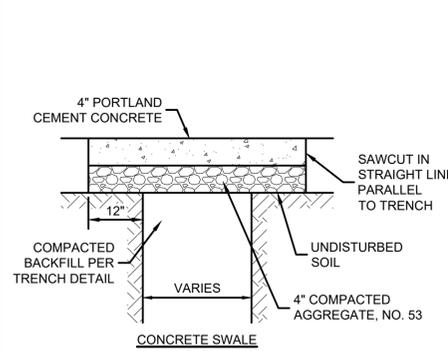


**OLNEY ROAD DRAINAGE IMPROVEMENTS**

PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

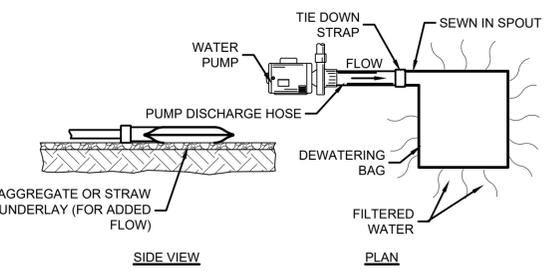
**EROSION CONTROL PLAN**

SHEET NO.	<b>07</b>
TOTAL SHEETS	<b>12</b>



**NOTE:**  
 1. HMA, TYPE B RELATES TO AN EQUIVALENT SINGLE AXLE LOAD (ESAL) OF <3,000,000, AVERAGE ANNUAL DAILY TRAFFIC (AADT) OF <15,000, AND AVERAGE ANNUAL DAILY TRUCK TRAFFIC (AADTT) OF <1,700.

**PAVEMENT REPAIR**  
 SCALE: NONE

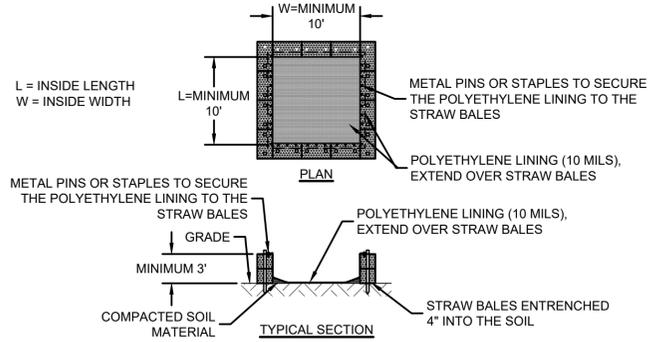


MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M <sup>2</sup> (GAL/MIN/FT <sup>2</sup> )	3866 (95)
PERMITTIVITY	ASTM D4491	S <sup>-1</sup>	1.2

**MAINTENANCE:**  
 1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.  
 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.  
 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

SOURCE:  
 KRISTAR  
 DANDY DEWATERING BAG  
 SEDCATCH

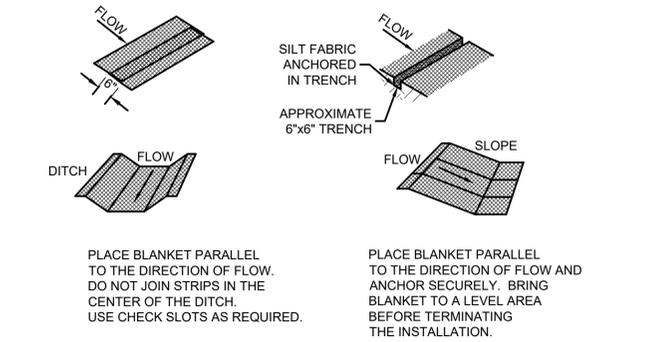
**PUMPING BAG**  
 SCALE: NONE



**NOTES:**  
 1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.  
**WASHOUT PROCEDURES:**  
 1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.  
 2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.  
 3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.  
 4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.  
 5. DO NOT USE ADDITIVES WITH WASH WATER.  
 6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.  
**MAINTENANCE:**  
 1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

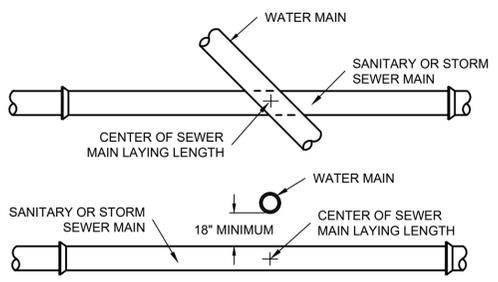
**CONCRETE WASHOUT**  
 SCALE: NONE

① BURY UPSLOPE END OF BLANKET IN A TRENCH 6" DEEP BY 6" WIDE.  
 ② USE A 4" OVERLAP WHEREVER TWO WIDTHS OF BLANKET ARE APPLIED SIDE BY SIDE. STAPLE PATTERN: MINIMUM 3 PER SQUARE YARD.  
 ③ USE A 6" OVERLAP WHEREVER ONE ROLL OF BLANKET ENDS AND ANOTHER BEGINS.  
 ④ CHECK SLOTS SHOULD BE MADE EVERY 18'. INSERT A FOLD OF THE BLANKET INTO A TRENCH 6" WIDE BY 6" DEEP AND TAMP FIRMLY. LAY THE BLANKET SMOOTHLY ON THE SURFACE OF THE SOIL. DO NOT STRETCH THE BLANKET, AND DO NOT ALLOW WRINKLES. INSTALL STAPLE 20" ON CENTER IN TRENCH.



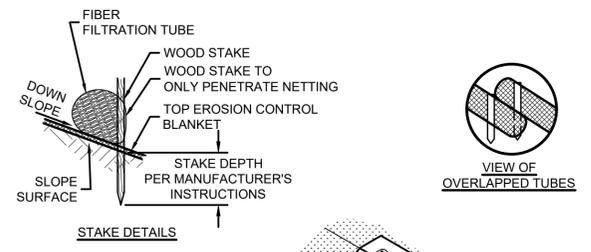
**PRODUCT:**  
 1. NORTH AMERICAN GREEN SC150, OR EQUAL.  
**NOTES:**  
 1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.  
**MAINTENANCE:**  
 1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.  
 2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.  
 3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

**EROSION CONTROL BLANKET**  
 SCALE: NONE



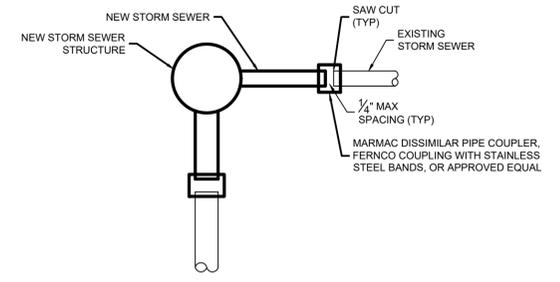
**NOTES:**  
 1. WATER MAIN AND SEWER MINIMUM SEPARATION: 18" VERTICAL SEPARATION 10'-0" HORIZONTAL SEPARATION.  
 2. WHERE WATER MAIN AND SEWER SEPARATION IS LESS THAN 18" VERTICAL OR 10' HORIZONTAL, THE SEWER MUST BE DUCTILE IRON OR SDR-21 PVC.

**MINIMUM CROSSOVER AND SEPARATION REQUIREMENTS FOR SEWER AND WATER MAINS**  
 SCALE: NONE



**APPLICATIONS:**  
 1. DOWN-GRADIENT OF A PROJECT LIMITS.  
 2. ACROSS DITCHES OR SWALES.  
 3. TO SLOW FLOWS AND FILTER SEDIMENTS.  
**INSTALLATION:**  
 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.  
 2. USE THE APPROPRIATE SIZE, LENGTH AND DISTANCE BETWEEN TUBES AS SPECIFIED BY THE MANUFACTURER.  
 3. ENTRENCH PER MANUFACTURER'S INSTRUCTIONS.  
**MAINTENANCE:**  
 1. REMOVE ALL ACCUMULATED SEDIMENT WHEN IT REACHES 1/4 THE HEIGHT OF THE TUBE.  
 2. REPAIR ERODED AND DAMAGED AREAS.  
 3. IF PONDING BECOMES EXCESSIVE DUE TO REDUCED FILTERING CAPACITY, REMOVE THE TUBE AND EITHER RECONSTRUCT OR REPLACE WITH NEW PRODUCT.  
 4. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

**FIBER FILTRATION TUBES - CHANNEL**  
 SCALE: NONE



**NEW STRUCTURE CONNECTION TO EXISTING STORM SEWER**  
 SCALE: NONE

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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	APPROVED BY	WBH				
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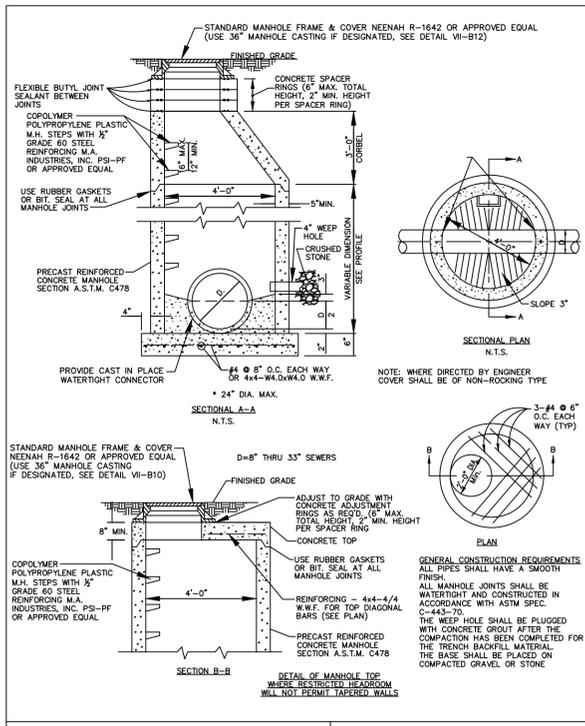


**OLNEY ROAD DRAINAGE IMPROVEMENTS**  
 PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
 NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

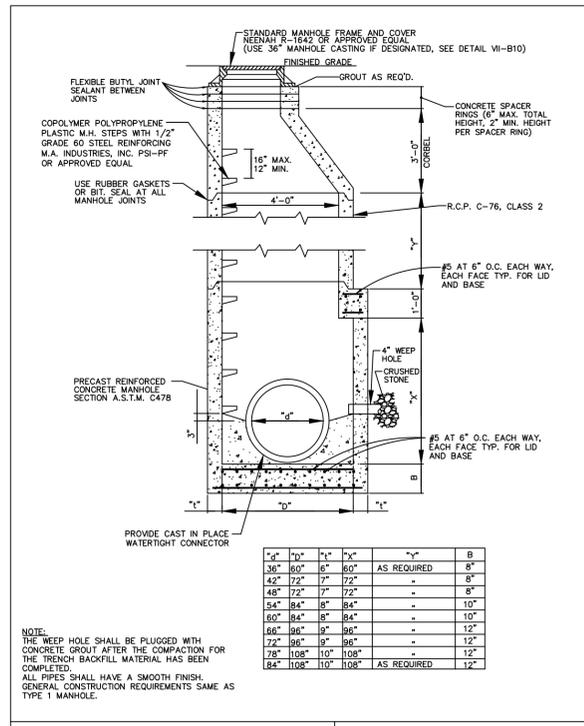
**MISCELLANEOUS DETAILS**

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**08**  
 TOTAL SHEETS  
**12**

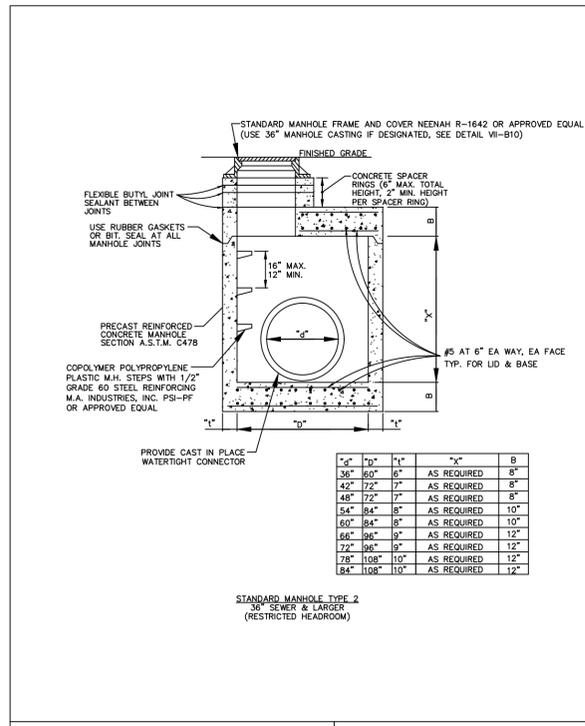
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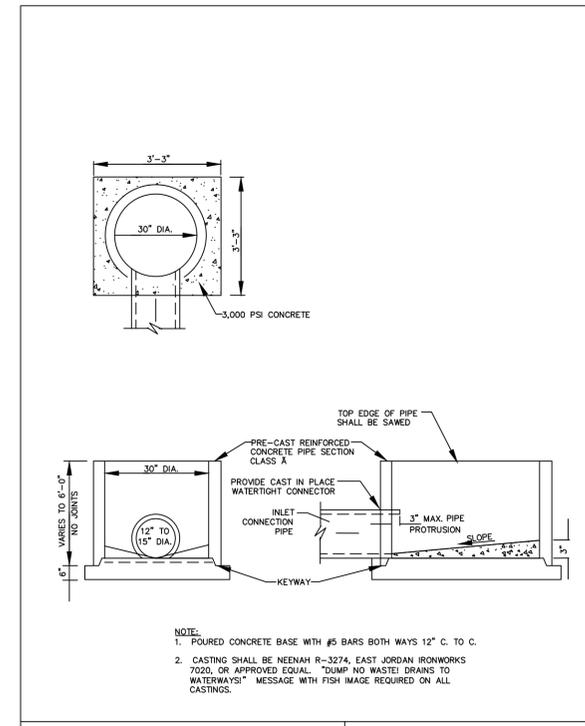
ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			STORM MANHOLE TYPE 1 VII-B6



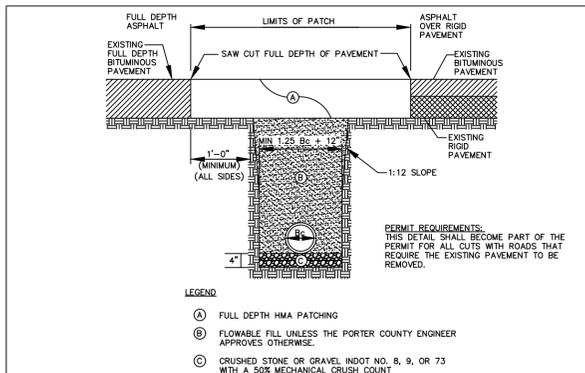
ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			STORM MANHOLE TYPE 2 VII-B7



ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			STORM MANHOLE TYPE 2 (RESTRICTED HEADROOM) VII-B8

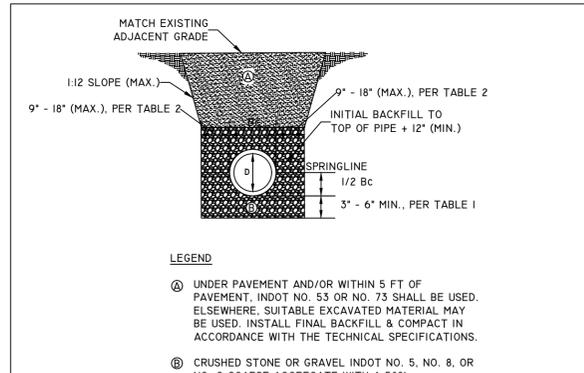


ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			INLET TYPE 1 VII-B13



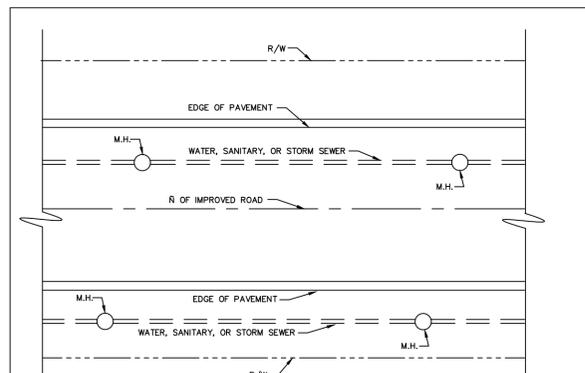
- PERMIT REQUIREMENTS:**  
THIS DETAIL SHALL BECOME PART OF THE PERMIT FOR ALL CUTS WITH ROADS THAT REQUIRE THE EXISTING PAVEMENT TO BE REMOVED.
- INSTALLATION BY THIS METHOD IS ONLY IN A CASE BY CASE BASIS APPROVED BY PORTER COUNTY HIGHWAY DEPARTMENT.
  - THIS DETAIL SHALL APPLY TO ANY PIPE INSTALLED UNDER PAVEMENT, SHOULDERS, ALLEYS, SIDEWALKS, OR DRIVING AREAS WITHIN PORTER COUNTY RIGHT-OF-WAY.
  - EXISTING PAVEMENT IS TO BE SAW CUT FOR A CLEAN BREAK.
  - TRENCH SPOIL IS TO BE IMMEDIATELY REMOVED FROM THE WORK SITE.
  - FLOWABLE BACKFILL:
    - DO NOT PLACE ON FROZEN GROUND.
    - PROTECT FROM FREEZING UNTIL MATERIAL HAS SET.
    - DO NOT PLACE INTO OR THROUGH STANDING WATER, UNLESS APPROVED BY ENGINEER.
    - PROPERLY ATTACH OR ANCHOR ALL PARTS AND MATERIALS THAT ARE TO REMAIN IN THE EXCAVATION TO PREVENT OBJECTS FROM FLOATING.
  - NEW SURFACE IS TO BE SLOPED AT THE SAME RATE AS THE EXISTING SURFACE.
  - ALL JOINTS BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT SHALL BE SMOOTH AND STRAIGHT.
  - PAVEMENT PATCH SHALL BE SMOOTH AND LEVEL, NO MORE THAN 1/2" VARIATION FROM A STRAIGHT EDGE 5'-0" IN LENGTH SHALL BE ALLOWED. SMOOTH ROADABILITY MUST BE MAINTAINED.

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			PIPE BEDDING AND BACKFILL UNDER EXISTING PAVEMENT VII-A2



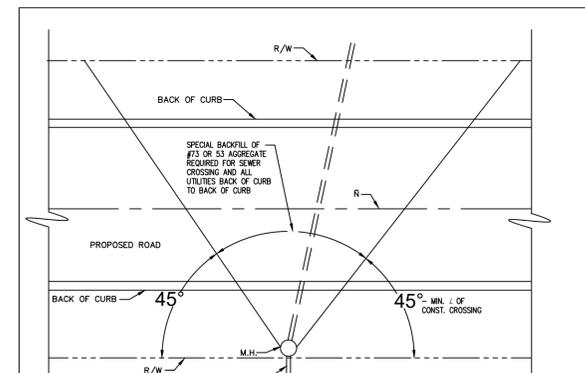
- LEGEND**
- Ⓐ UNDER PAVEMENT AND/OR WITHIN 5 FT OF PAVEMENT, INDOT NO. 53 OR NO. 73 SHALL BE USED. ELSEWHERE, SUITABLE EXCAVATED MATERIAL MAY BE USED. INSTALL FINAL BACKFILL & COMPACT IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- Ⓑ CRUSHED STONE OR GRAVEL INDOT NO. 5, NO. 8, OR NO. 9 COARSE AGGREGATE WITH A 50% MECHANICAL CRUSH COUNT.
- Bc PIPE OUTSIDE DIAMETER
- NOTES:**
- ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 8" LIFTS (MAX.) & COMPACTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. BEDDING & INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED AROUND THE HAUNCH AND SIDES OF THE PIPE TO ENSURE PROPER COMPACTION AND COMPLETE FILLING OF ALL VOIDS.

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			STORM SEWER & CULVERT BEDDING AND BACKFILL



- BACKFILL REQUIREMENTS BENEATH ROADWAY**
- MINIMUM LIMITS MAY BE BROUGHT TO TOP OF TRENCH
- INDOT NO. 53 OR NO. 73
- PIPE BEDDING PER STANDARD DRAWING VII-A3
- BACKFILL REQUIREMENTS ADJACENT TO ROADWAY

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			BACKFILL REQUIREMENTS VII-A4



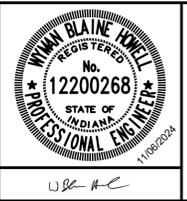
- BACKFILL REQUIREMENTS (CONTINUED)**
- APPROVED EXCAVATED MATERIAL COMPACTED TO 95%
- INDOT NO. 73 OR NO. 53
- APPROVED EXCAVATED MATERIAL COMPACTED TO 95%

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			BACKFILL REQUIREMENTS (CONTINUED) VII-A5

**NOTE:**  
\* FROM "PORTER COUNTY, IN - SUPPLEMENTAL DESIGN AND CONSTRUCTION STANDARDS / SPECIFICATIONS", ADOPTED NOVEMBER 19, 2013.

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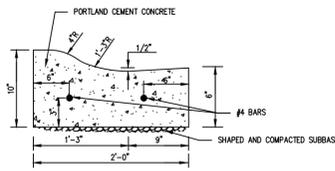


**OLNEY ROAD DRAINAGE IMPROVEMENTS**

PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

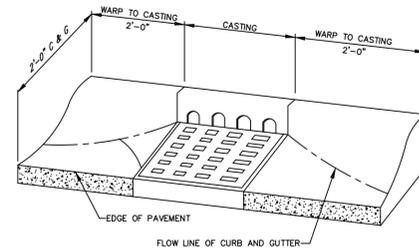
**PORTER COUNTY STANDARD DETAILS**

SHEET NO.	<b>09</b>
TOTAL SHEETS	<b>12</b>



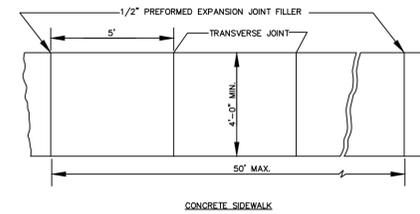
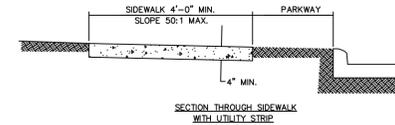
NOTE: TRANSVERSE INTERMEDIATE AND EXPANSION JOINTS SHALL BE PER STANDARD SPECIFICATIONS.

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			ROLLED CURB AND GUTTER IV-6



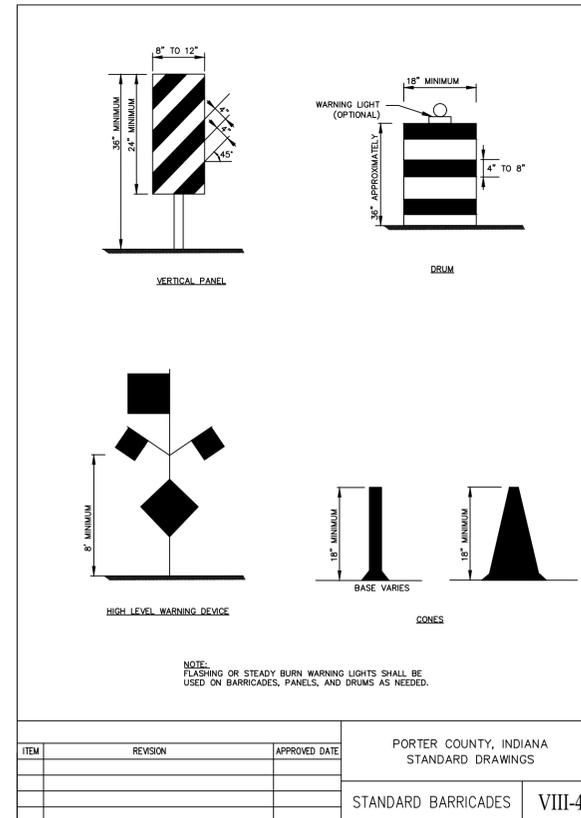
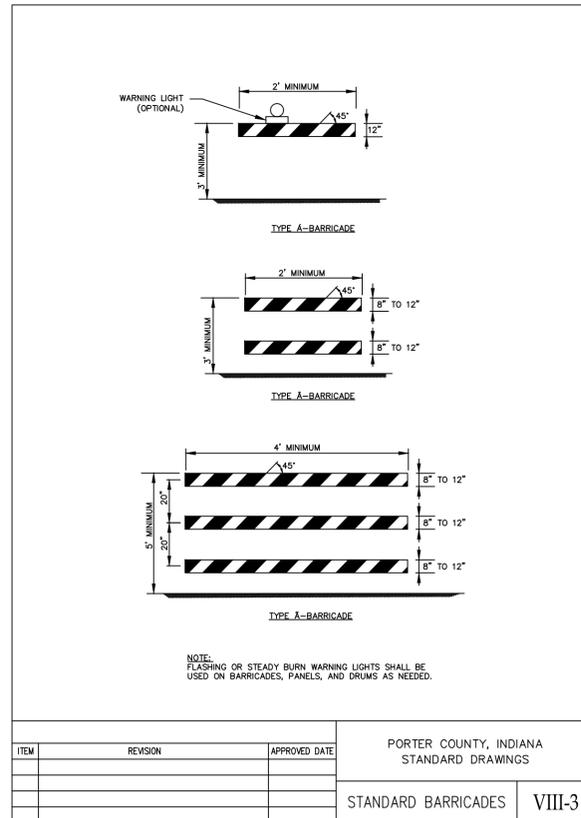
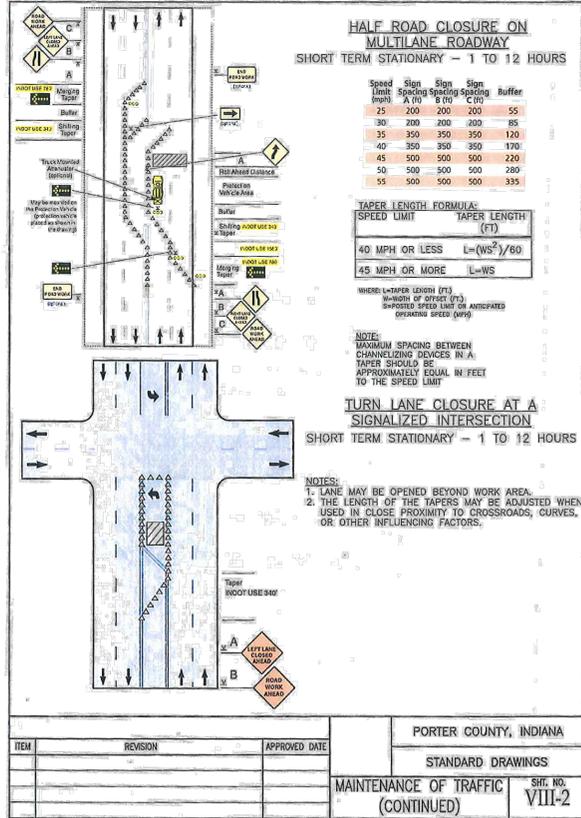
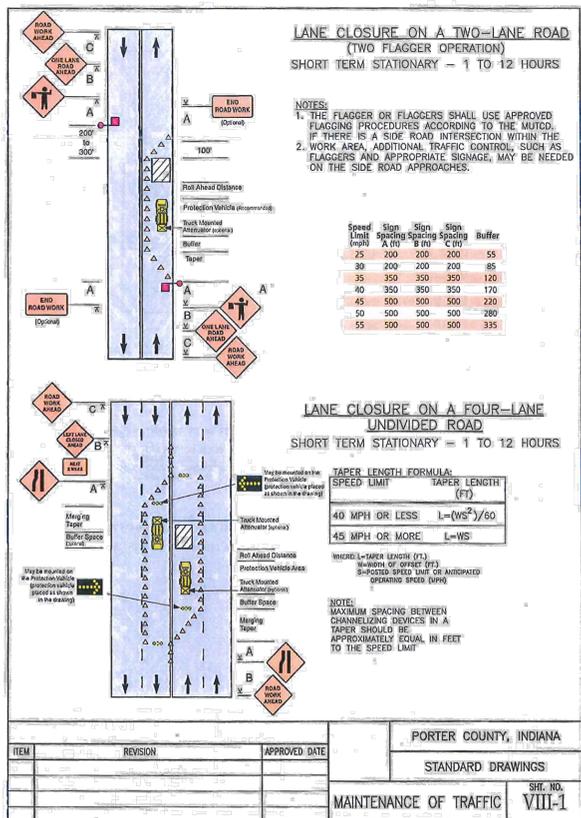
NOTE: ALL CASTING GRATE SURFACES TO BE DERESSED 1" TO 1 1/2" BELOW STREET SURFACE WITH SMOOTH TRANSITION OF PAVING TO GRATE SURFACE.

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			WARP PATTERN CURB AND GUTTER INTO CASTING IV-7



- NOTES:
- SIDEWALK THICKNESS THROUGH DRIVEWAYS SHALL MATCH DRIVEWAY THICKNESS OR BE 6" THICK, WHICHEVER IS GREATER. (REFER TO DRIVEWAY APPROACH DETAILS.)
  - TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT SPACING AS INDICATED OR DIRECTED BY THE ENGINEER.
  - IF LATEST AMERICAN WITH DISABILITIES ACT REQUIREMENTS EXCEED THESE REQUIREMENTS, THE AMERICAN WITH DISABILITIES ACT STANDARDS SHALL SUPERCEDE PORTER COUNTY REQUIREMENTS.

ITEM	REVISION	APPROVED DATE	PORTER COUNTY, INDIANA STANDARD DRAWINGS
			SIDEWALK DETAIL VI-1



NOTE:  
\* FROM "PORTER COUNTY, IN - SUPPLEMENTAL DESIGN AND CONSTRUCTION STANDARDS / SPECIFICATIONS", ADOPTED NOVEMBER 19, 2013.

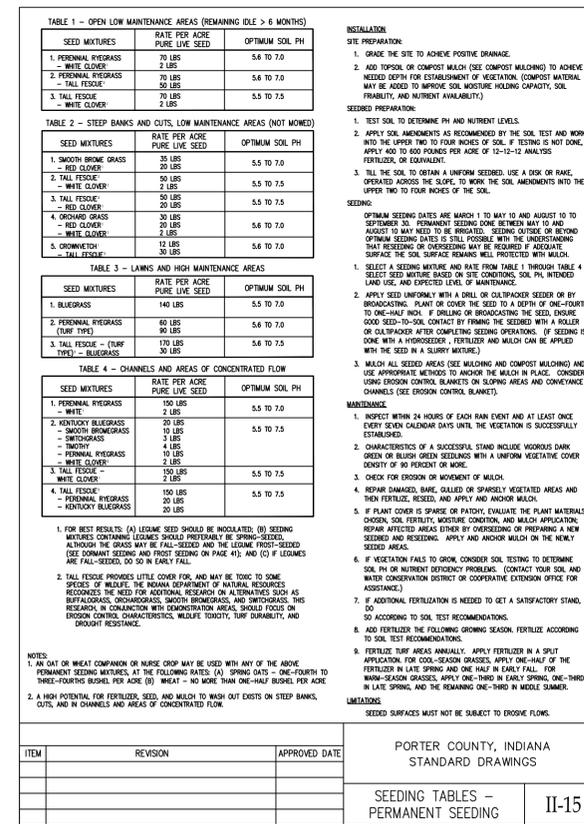
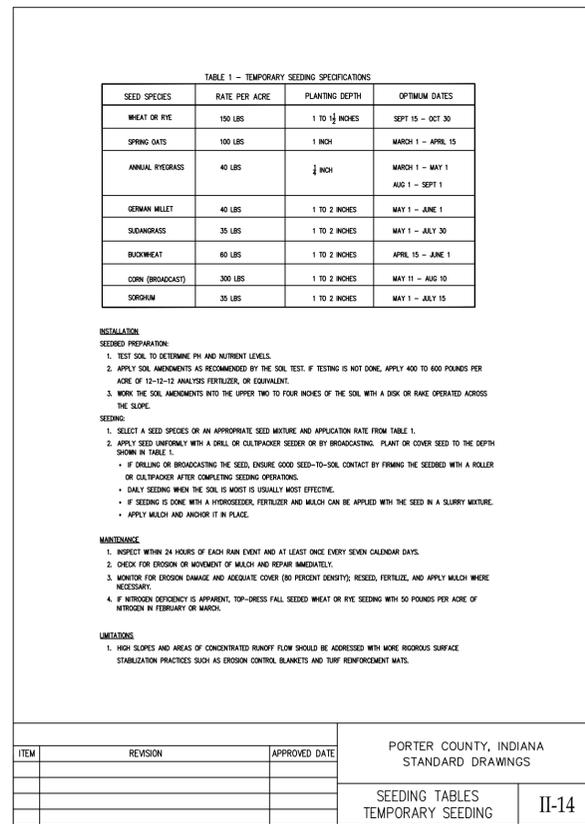
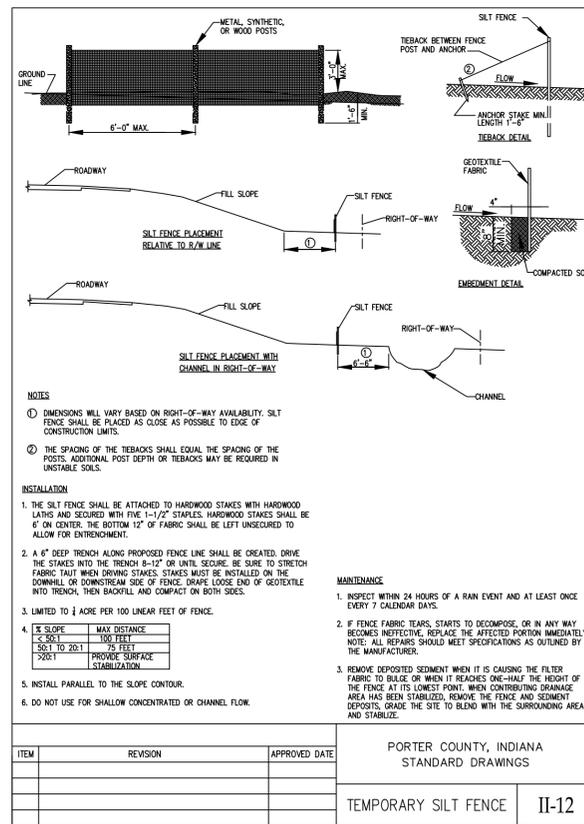
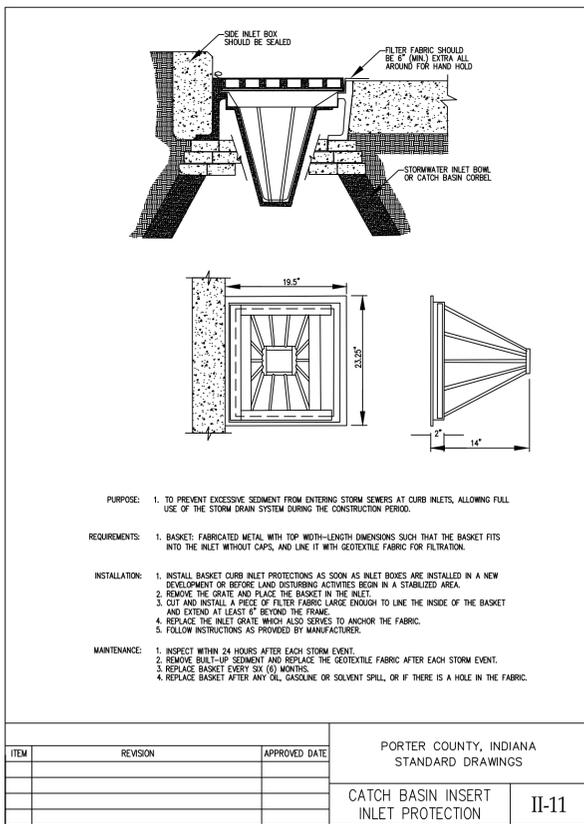
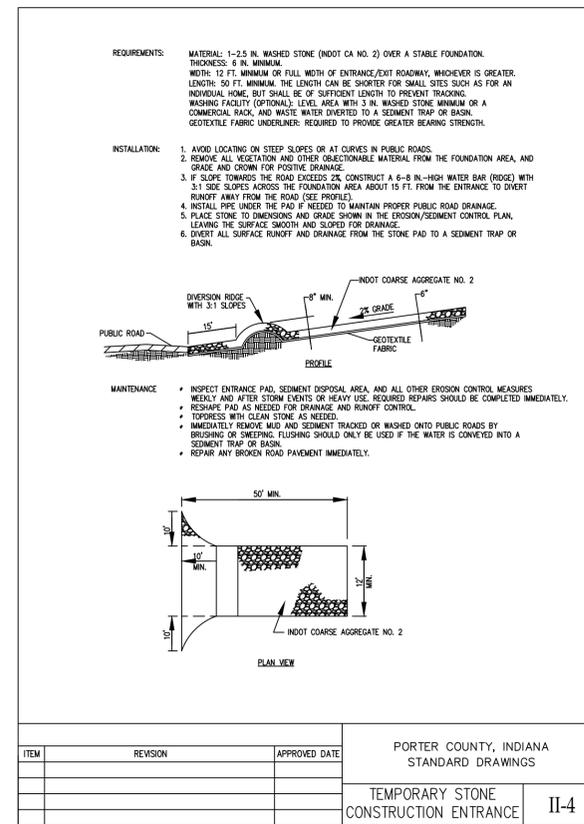
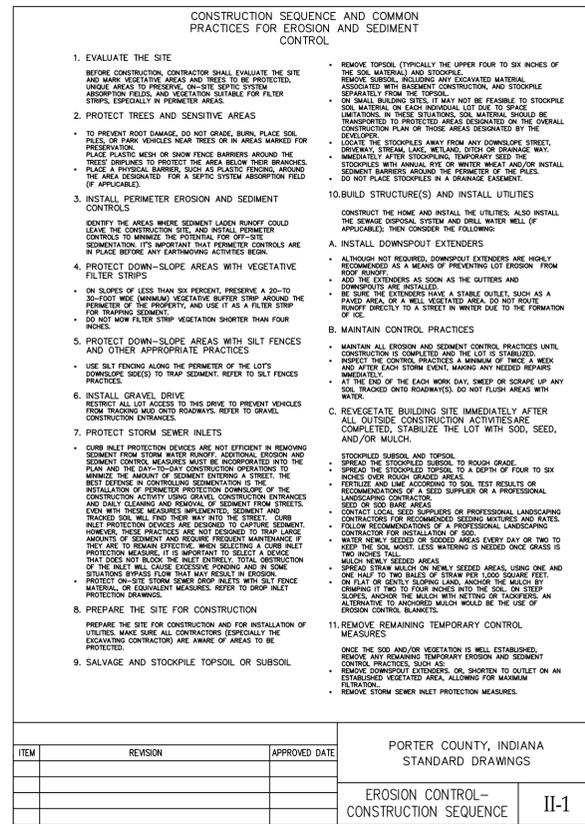
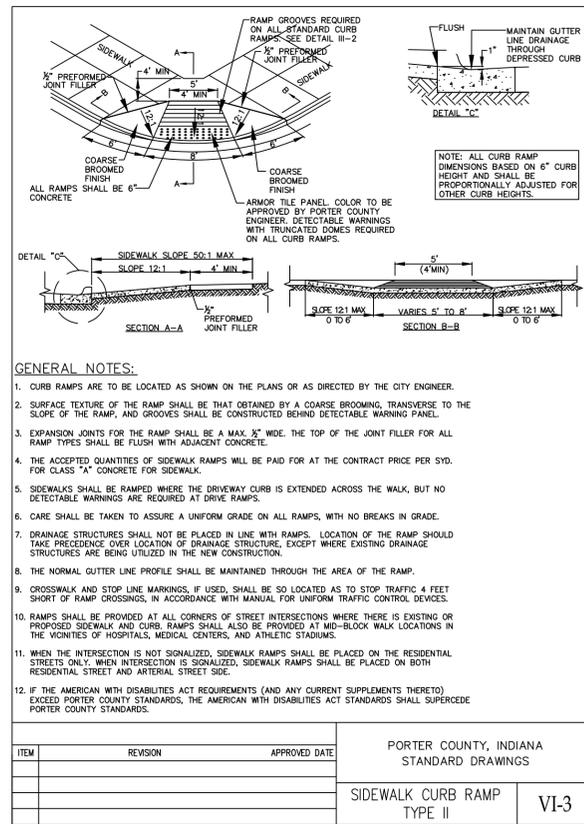
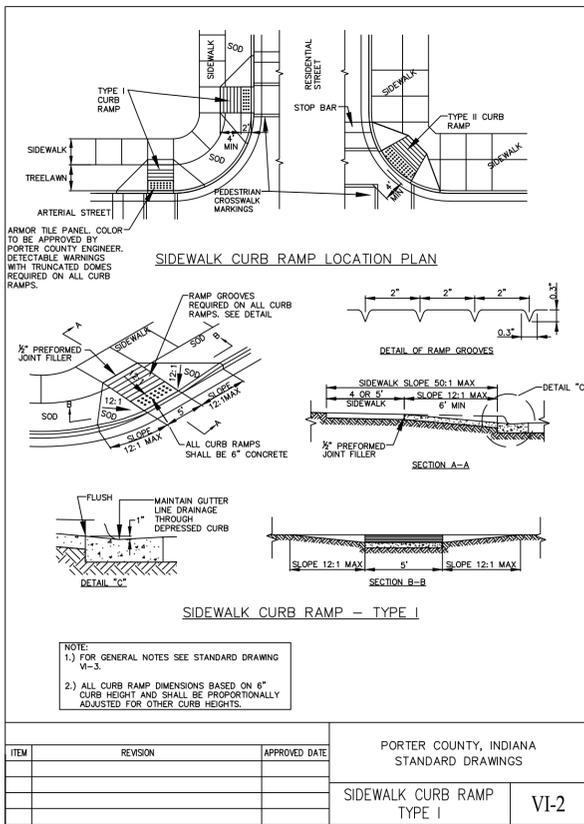
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SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	KNM				
	APPROVED BY	WBH				
	ISSUE DATE	NOVEMBER 2024				
	PROJECT NUMBER	255822-TO1				



**OLNEY ROAD DRAINAGE IMPROVEMENTS**  
 PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
 NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN  
**PORTER COUNTY STANDARD DETAILS**

SHEET NO.	10
TOTAL SHEETS	12



NOTE: \* FROM "PORTER COUNTY, IN - SUPPLEMENTAL DESIGN AND CONSTRUCTION STANDARDS / SPECIFICATIONS", ADOPTED NOVEMBER 19, 2013.

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	KNM				
	APPROVED BY	WBH				
	ISSUE DATE	NOVEMBER 2024				
	PROJECT NUMBER	255822-TO1				



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**OLNEY ROAD DRAINAGE IMPROVEMENTS**  
PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN  
**PORTER COUNTY STANDARD DETAILS**

SHEET NO. **11**  
TOTAL SHEETS **12**

Drawing: X:\Porter County\255822-Porter County Rd\DWG\Sheets\25582-SD-01ney Rd.dwg | Layout: SD1 | Plotted: 11/05/24 @ 01:05:47 | LastSavedBy: travisi

STRUCTURE TABLE					
STRUCTURE NAME:	STATION	CASTINGS MODEL NO.	STRUCTURE DETAIL	PIPES IN:	PIPES OUT
A10	10+00	NEENAH R-1642 RIM: 672.84	60 INCH TYPE 2 MANHOLE	FROM A20, 24" RCP INV IN: 663.85, 122 LF @ 0.50% FROM EXISTING, 18" CMP INV IN: 665.85	TO EXISTING, 24" CMP INV OUT: 663.75
A20	11+22	NEENAH R-1642 RIM: 673.44	48 INCH STANDARD TYPE 1 MANHOLE	FROM A30, 24" RCP INV IN: 664.55, 175 LF @ 0.50% FROM EXISTING, 8" VCP INV IN: 665.53	TO A10, 24" RCP INV OUT: 664.46, 122 LF @ 0.50%
A30	12+96	NEENAH R-1642 RIM: 674.11	72 INCH TYPE 2 MANHOLE	FROM A40, 18" RCP INV IN: 665.92, 218 LF @ 0.50% FROM B10, 18" RCP INV IN: 667.32, 150 LF @ 0.45% FROM EXISTING, 15" CMP INV IN: 666.67	TO A20, 24" RCP INV OUT: 665.42, 175 LF @ 0.50%
A40	15+14	NEENAH R-1642 RIM: 675.76	48 INCH STANDARD TYPE 1 MANHOLE	FROM A50, 18" RCP INV IN: 667.11, 46 LF @ 0.49%	TO A30, 18" RCP INV OUT: 667.01, 218 LF @ 0.50%
A50	15+60	HAALA CG48TM RIM: 672.96	48 INCH STANDARD TYPE 1 MANHOLE	FROM EXISTING, 18" CMP INV IN: 669.37	TO A40, 18" RCP INV OUT: 667.33, 46 LF @ 0.49%
B10	11+50	NEENAH R-3246 RIM: 673.73	84 INCH TYPE 2 MANHOLE	FROM B21, 12" RCP INV IN: 670.22, 38 LF @ 0.35% FROM B20, 12" RCP INV IN: 668.50, 71 LF @ 1.69%	TO A30, 18" RCP INV OUT: 668.00, 150 LF @ 0.45%
B20	12+21	NEENAH R-3274 RIM: 673.75	48 INCH FLAT TOP TYPE 1 MANHOLE	FROM EXISTING, 12" CMP INV IN: 669.85	TO B10, 12" RCP INV OUT: 669.70, 71 LF @ 1.69%
B21	11+82 21.4' L	NEENAH R-3274 RIM: 673.70	INLET TYPE 1	FROM EXISTING, 6" PVC INV IN: 671.60	TO B10, 12" RCP INV OUT: 670.35, 38 LF @ 0.35%

SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	KNM				
	APPROVED BY	WBH				
	ISSUE DATE	NOVEMBER 2024				
	PROJECT NUMBER	255822-TO1				



**OLNEY ROAD DRAINAGE IMPROVEMENTS**

PORTER COUNTY DEPARTMENT OF DEVELOPMENT & STORM WATER MANAGEMENT  
NEW SOUTH HAVEN SUBDIVISION - VALPARAISO, IN

**STRUCTURE DATA TABLE**

SHEET NO.	<b>12</b>
TOTAL SHEETS	<b>12</b>