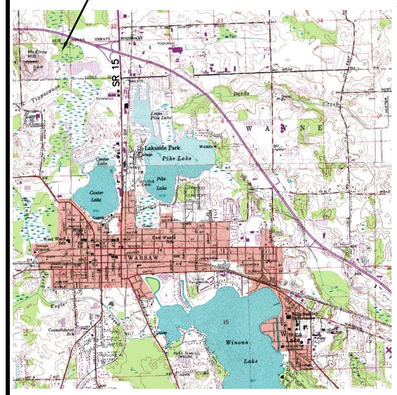
WASTEWATER TREATMENT PLANT DRYING BEDS

FOR THE

CITY OF WARSAW, INDIANA

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PROJECT LOCATION
2056 N 150 W, WARSAW, IN



WARSAW
VICINITY MAP
SCALE: 1" = 4000'



STATE LOCATION MAP
SCALE: NONE

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FORT WAYNE
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PROJECT NO. 299526-04-001

DRAWINGS PREPARED FOR:

BOARD OF PUBLIC WORKS AND SAFETY

JEFF GROSE, MAYOR
GEORGE CLEMENS
DIANE QUANCE

OCTOBER 2026

NATHAN A. BRUNE
REGISTERED
No. 11900862
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/15/2026

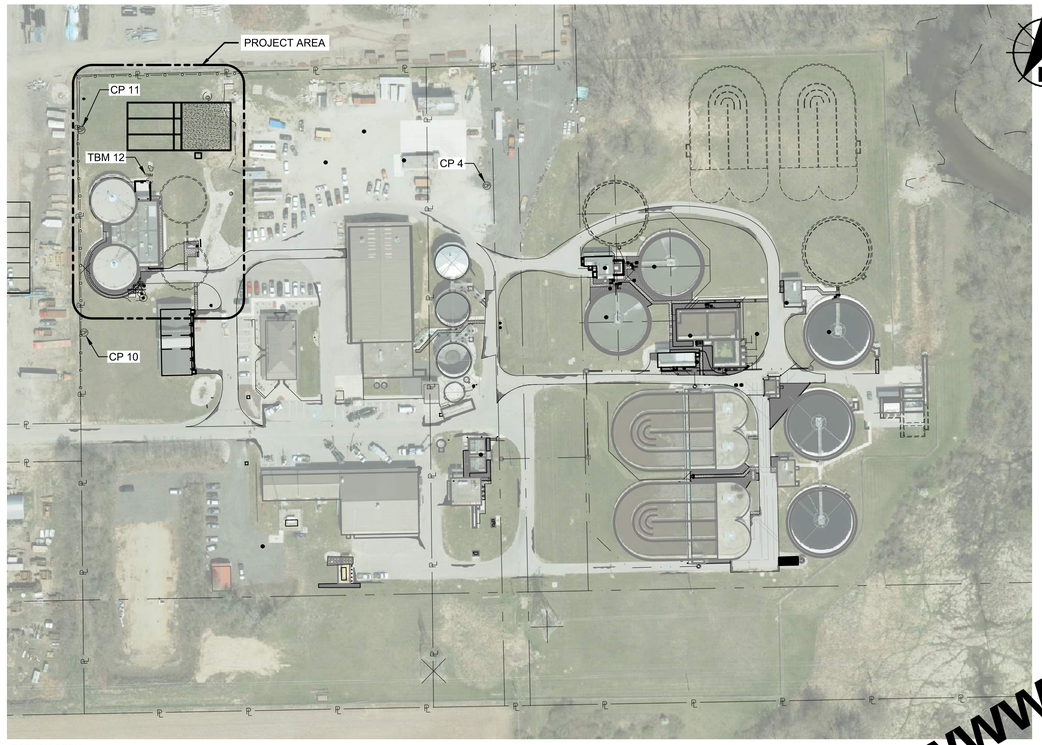
Nathan A. Brune

NATHAN A. BRUNE
REGISTERED ENGINEER STATE OF INDIANA NO. 11900862

JAKOB BRUHL
REGISTERED
No. 12300914
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/15/2026

JAKOB BRUHL
REGISTERED ENGINEER STATE OF INDIANA NO. 12300914

Drawing: X:\Warsaw\299526 Warsaw WWTP Drying Beds\DWG\Sheets\299526-GS.dwg | Layout: 1G1 | Plotted: 10/02/26 @ 03:16:00 | LastSavedBy: MicheleE



ESRI IMAGERY

LOCATION AND SCOPE OF WORK PLAN

0 50 100 200 FT
1" = 100'

HORIZONTAL AND VERTICAL CONTROL INFORMATION

NOTES:
1. SURVEY CONTROL WORK WAS PERFORMED IN MARCH OF 2026 AND IS BASED ON PREVIOUS SURVEY CONTROL WORK PERFORMED IN NOVEMBER 2015.
2. BEARINGS, DISTANCES, AND COORDINATES ARE INDIANA STATE PLANE, WEST ZONE, NAD 83 (2011) EPOCH 2010.00 AND ARE REPORTED IN U.S. SURVEY FEET.
3. CONTROL POINTS WERE SET USING GPS.
4. ELEVATIONS ARE NAVD88 DATUM AND ARE BASED ON PREVIOUSLY ESTABLISHED SURVEY CONTROL (2015).
5. A LEVEL LOOP WAS PERFORMED FOR ALL CONTROL POINTS LISTED HEREON.

BENCHMARK DESCRIPTION:

"CGS" BM C 160, 1946, STANDARD BENCHMARK DISK STAMPED C 160 1946 LOGO "CGS", SET IN TOP OF CONCRETE MONUMENT, FLUSH WITH THE GROUND. FROM LEESBURG 2.5 MILES SOUTH ALONG S.R. 15 FROM THE MAIN STREET CROSSING IN LEESBURG, 0.3 MILES WEST OF THE ENTRANCE TO THE VICTORY AIR FIELD, 38 FEET WEST OF THE CENTERLINE OF S.R. 15, AND 3.5 FEET SOUTH OF POWER POLE NO. 494.

TBM NO. 12 - BOX CUT IN NORTHEAST CORNER OF CONCRETE PAD
EL 814.86

CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
4	2191475.023	273109.143	819.77	CP PRE5
10	2191281.106	272577.761	819.91	CP PRE5
CP 11	2191548.482	272573.914	817.44	CP PRE5

DRAWING INDEX

SHEET NUMBER	SHEET DESIGNATION	SHEET TYPE DEFINITIONS:
		A - ARCHITECTURAL
		G - GENERAL
		C - CIVIL/PROCESS
		S - STRUCTURAL
		E - ELECTRICAL
		N - INSTRUMENTATION AND CONTROL
		P - PLUMBING
		M - MECHANICAL HVAC
		Y - SITE
GENERAL INFORMATION, ELECTRICAL AND P&ID (AREA 1)		
1	1G1	TITLE SHEET
2	1G2	LOCATION AND SCOPE OF WORK PLAN, AND DRAWING INDEX
3	1G3	LEGEND, ABBREVIATIONS, UTILITY CONTACTS AND GENERAL NOTES
4	1S1	STRUCTURAL GENERAL NOTES
SITE (AREA 2)		
5	2Y1	NEW SITE LAYOUT AND PIPING PLAN
6	2Y2	NEW SITE GRADING PLAN
7	2Y3	DRAIN LINE PROFILE
NEW DRYING BEDS (AREA 3)		
8	3G1	PERSPECTIVE VIEWS
9	3C1	PLAN
10	3C2	SECTIONS
11	3S1	PLAN
12	3S2	SECTIONS
MISCELLANEOUS DETAILS (AREA 4)		
13	4Y1	SITE DETAILS
14	4Y2	SITE DETAILS
15	4EC1	EROSION CONTROL DETAILS
16	4EC2	EROSION CONTROL DETAILS
17	4S1	STRUCTURAL DETAILS
18	4S2	STRUCTURAL DETAILS

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SCALE VERIFICATION
BAR IS ONE INCH LONG ON ORIGINAL DRAWING

DRAWN BY	MRE
CHECKED BY	GLR
APPROVED BY	NAB
ISSUE DATE	OCTOBER 2026
PROJECT NUMBER	299526-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

NATHAN A. BRUNE REGISTERED No. 11900862 STATE OF INDIANA PROFESSIONAL ENGINEER 10/16/2026
Nathan A. Brune

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WASTEWATER TREATMENT PLANT DRYING BEDS
CITY OF WARSAW, INDIANA
LOCATION AND SCOPE OF WORK PLAN, AND DRAWING INDEX

SHEET NO. **1G2**
PAGE NO. 2

Drawing: X:\Warsaw\299526 Warsaw WWTP Drying Beds\DWG\Sheets\299526-GS.dwg | Layout: 1G2 | Plotted: 10/02/26 @ 11:09:26 | LastSavedBy: MichelleE

EXISTING FEATURES LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BM	BENCH MARK	DB	CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
TBM	TEMPORARY BENCH MARK	E M	ELECTRIC METER		LOT BOUNDARY
SB-01	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT	R	PROPERTY BOUNDARY
	SECTION CORNER	XXX	UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	XXX	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
CP	CONTROL POINT (SET/FOUND)	X	UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
MG	MAGNETIC NAIL (SET/FOUND)	J	JOINT POWER/TELEPHONE POLE	849	CONTOUR - INTERMEDIATE ELEVATION
BS	BOAT SPIKE (SET/FOUND)	L	LIGHT POLE	850	CONTOUR - INDEX ELEVATION
PK	PK NAIL (SET/FOUND)	LP	LIGHT ON POWER POLE	OHE OHE	OVERHEAD ELECTRIC
RS	RAILROAD SPIKE (SET/FOUND)	LJ	LIGHT ON JOINT POLE	OHC OHC	OVERHEAD CABLE TV
R/W	R/W MARKER - CONCRETE/GRANITE/STONE	P	POWER POLE	OHT OHT	OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	T	TELEPHONE POLE	UGC UGC	UNDERGROUND CABLE TV
BP	BRASS PLUG		LAMP POST	UGE UGE	UNDERGROUND ELECTRIC
C	CABLE TV MANHOLE		GUY ANCHOR	UGF UGF	UNDERGROUND FIBER OPTIC
E	ELECTRIC MANHOLE		GUY POLE OR STUB	G G G	GAS MAIN
G	GAS MANHOLE		CONTROLLER CABINET	DG DG	DIGESTER GAS
O	OTHER MANHOLE	FP	FLAG POLE	P P P	PETROLEUM MAIN
T	TELEPHONE MANHOLE		POST	UGT UGT	UNDERGROUND TELEPHONE
TEL	TELEPHONE VAULT		GROUND LIGHT	W W W	WATER MAIN
I	TRAFFIC MANHOLE	M	MAILBOX	W W W	WATER SERVICE
H	TRAFFIC HANDHOLE	M M	DOUBLE/MULTIPLE MAILBOX	FM FM	FORCEMAIN
W	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
A	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHEMICAL LINE
S	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX	D D	PLANT DRAIN LINE
D	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		TOP OF BANK/TOE OF SLOPE
CO	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		CENTERLINE OF DITCH/SWALE/STREAM
ST	SEPTIC TANK		SIGN - DOUBLE POST	x x x x x x x x x	FENCE - FIELD
V	VALVE VAULT		SIGN - RAILROAD SIGNAL	o o o o o o o o o	FENCE - METAL
	BEEHIVE INLET		SIGN - RAILROAD CROSSING	= = = = = = = = =	FENCE - WOOD
	CURB INLET		BUSH		GUARDRAIL
	DROP INLET		STUMP		STREAM
	CATCH BASIN		TREE - CONIFEROUS		TREE/BRUSH LINE
DS	DOWNSPOUT		TREE - DECIDUOUS		
GM	GAS METER		ROCK OUTCROP		
GV	GAS VALVE		SATELLITE		
GS	GAS SERVICE VALVE	SPH	SPRINKLER CONTROL VALVE		
PV	PETROLEUM VALVE	WM	WATER METER		
PS	PETROLEUM SHUTOFF VALVE	WV	WATER VALVE		
GM	GAS STATION MONITORING WELL	WS	WATER SERVICE VALVE		
GFC	GAS STATION FILL CAP	W	WATER WELL		
GW	NATURAL GAS WELL/STORAGE WELL	WW	WET WELL		
SP	SPRINKLER HEAD		HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

*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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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.

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
6. 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.
7. ALL PRIVATE WELL LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY AND DETERMINE EXACT LOCATIONS OF ALL PRIVATE WELLS WITHIN THE PROJECT AREA.
8. 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 OR FULL 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.
9. DETERMINE WHICH UTILITIES MAY CONFLICT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION TO DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
10. 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 PROPOSED IMPROVEMENTS.
11. COORDINATE WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
12. 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.
13. 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.
14. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
15. MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.
16. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
17. 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.
18. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
19. ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
20. TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
21. ALL EXISTING PIPING MAY NOT BE SHOWN. REFERENCE EXISTING RECORD DRAWINGS ON FILE WITH THE OWNER AND WESSLER ENGINEERING FOR ADDITIONAL INFORMATION OF EXISTING PIPING AND CONDUIT THROUGHOUT THE PLANT SITE.
22. THE WORK SHOWN ON THESE DRAWINGS IS OCCURRING ON A PLANT SITE IN WHICH BURIED ELECTRICAL CONDUIT AND SMALL PIPING MAY EXIST THROUGHOUT AND IN THE VICINITY OF THE PROJECT AND MAY NOT BE SHOWN ON THESE DRAWINGS. EXPECT TO ENCOUNTER BURIED ELECTRICAL AND COMMUNICATIONS WIRING, WITH OR WITHOUT CONDUIT, SMALL PIPING, AND FIELD TILE WHILE DIGGING ON THIS SITE.
23. NEW PIPING CARRYING LIQUIDS SHALL HAVE MINIMUM COVER AS DEFINED IN SPEC 02660, UNLESS SPECIFIC ELEVATIONS ON THE DRAWINGS INDICATE OTHERWISE.
24. INSPECT THE SITE PRIOR TO BIDDING TO UNDERSTAND THE EXTENT OF THE DEMOLITION WORK INVOLVED AND ADJUST BID ACCORDINGLY.
25. COMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN OR WILL BE TAKEN OUT OF SERVICE, IN CONFLICT WITH THE NEW WORK. UNLESS OTHERWISE NOTED, ABANDON IN PLACE ALL UNDERGROUND PIPING NOT IN CONFLICT WITH THE NEW WORK. DO NOT LEAVE ABANDONED PIPING LIVE. SEE SPECIFICATION SECTION 02050 FOR DEMOLITION PROCEDURES. SEE SPECIFICATION SECTION 01550 FOR PLANT OPERATIONS DURING CONSTRUCTION FOR COORDINATION OF DEMOLITION WORK AND NEW CONSTRUCTION.
26. ALL EQUIPMENT TO BE REMOVED THAT HAS ELECTRICAL COMPONENTS, CONDUIT AND WIRING, OR SMALL PIPING CONNECTED SHALL HAVE THE ELECTRICAL COMPONENTS AND SMALL PIPING REMOVED BACK TO THE SOURCE.
27. LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER TO CENTER OF STRUCTURES.
28. NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
29. VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
30. 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.

UTILITY CONTACTS

ELECTRIC
KOSCIUSKO REMC
370 SOUTH 250 EAST
WARSAW, IN 46582
800-790-7362
ATTN: RYAN MILLER

ELECTRIC
NIPSCO
801 E. 86TH AVE.
MERRILVILLE, IN 46410
219-647-5036
ATTN: ROCKY YBARRA

GAS
NIPSCO
801 E. 86TH AVE.
MERRILVILLE, IN 46410
219-647-5311
ATTN: DOUG BENDA

FIBER OPTIC/TELEPHONE
CENTURY LINK
213 W. LAPORTE ST
PLYMOUTH, IN 46563
574-935-1247
ATTN: BRUCE EMERICK

WATER
INDIANA-AMERICAN WATER COMPANY, INC
555 E. COUNTY LINE RD., STE 201
GREENWOOD, IN 46143
317-885-2447
ATTN: EZAT NAYEN

NOTE:
IN THE EVENT OF WATER CONFLICT, CONTACT EZAT NAYEN AT INDIANA-AMERICAN WATER COMPANY TO COORDINATE WORK

WARSAW UTILITIES
2056 N. 150 W
WARSAW, IN 46580
574-372-9562
ATTN: BRIAN DAVISON

SCALE VERIFICATION	DRAWN BY	MRE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	GLR
	APPROVED BY	NAB
	ISSUE DATE	OCTOBER 2026
	PROJECT NUMBER	299526-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

NATHAN A. BRUNE REGISTERED No. 11900862 STATE OF INDIANA PROFESSIONAL ENGINEER 10/10/2026
Nathan A. Brune

WESSLER ENGINEERING
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WASTEWATER TREATMENT PLANT DRYING BEDS

CITY OF WARSAW, INDIANA

LEGEND, ABBREVIATIONS, UTILITY CONTACTS AND GENERAL NOTES

SHEET NO. 1G3
PAGE NO. 3

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STRUCTURAL GENERAL NOTES

A. GENERAL INFORMATION

1. SHOP DRAWINGS OF ALL FABRICATED ITEMS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
2. VERIFY DIMENSIONS AND DETAILS BEFORE BEGINNING WORK. COORDINATE WALL OPENINGS WITH PROCESS / MECHANICAL / ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL CHECK AND COORDINATE SIZES AND LOCATIONS OF ALL BLOCK-OUTS, CONDUITS, PIPE SLEEVES, EMBEDDED ITEMS, ETC. WITH MECHANICAL AND ELECTRICAL.
3. HORIZONTAL RUNS OF ELECTRICAL CONDUIT ARE NOT PERMITTED IN CONCRETE.
4. EXISTING CONDITIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. VERIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS BETWEEN EXISTING CONDITIONS AND DESIGN AND DETAILS INDICATED BY THESE DRAWINGS.
5. NO PIPES, SLEEVES, ETC. SHALL PASS THROUGH BEAMS OR COLUMNS UNLESS CLEARLY INDICATED ON STRUCTURAL PLANS OR AUTHORIZED BY THE ENGINEER.
6. STANDARD DETAILS ARE SHOWN ON DRAWINGS TITLED STANDARD STRUCTURAL DETAILS. THE STANDARD STRUCTURAL DETAILS INCLUDED MAY OR MAY NOT BE REFERENCED TO PLANS OR SECTIONS BUT ARE TO BE USED AS APPLICABLE.
7. DETAILS NOT SPECIFICALLY INDICATED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

B. DESIGN

1. CODES AND SPECIFICATIONS

a. 2014 INDIANA BUILDING CODE (2012 INTERNATIONAL BUILDING CODE).

b. ASCE 7-10: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

c. ACI 318-11: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

d. ACI 350-06: CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES.

e. ACI 301-10: SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS.

f. ACI 315: DETAILS AND DETAILING OF CONCRETE REINFORCING.

g. ACI 350.3-06: SEISMIC DESIGN OF LIQUID-CONTAINING CONCRETE STRUCTURES.

h. AMERICAN WELDING SOCIETY STANDARDS AND SPECIFICATIONS (AWS).

2. DESIGN LIVE LOADS

SNOW:	
GROUND SNOW LOAD (Pg)	20 PSF
WIND:	
BASIC WIND SPEED	120 MPH
EXPOSURE CATEGORY	C
SEISMIC:	
RISK CATEGORY	III
SEISMIC IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL RESPONSE (Ss)	0.087 g
MAPPED SPECTRAL RESPONSE (S1)	0.061 g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE (SDS)	0.109 g
DESIGN SPECTRAL RESPONSE (SD1)	0.097 g
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC-RESISTING SYSTEM	REINFORCED CONCRETE
DESIGN BASE SHEAR	27.5 PSF
RESPONSE COEFFICIENTS (Cs)	0.034
RESPONSE MODIFIER (R)	4
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
GENERAL FLOOR LOADING:	
GENERAL FLOOR LOADING	250 PSF

C. FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED FOR THE FOLLOWING "NET" ALLOWABLE BEARING PRESSURE (PSF): 1500
2. CONSTRUCT FOOTINGS ON ADEQUATE SUBGRADE SOIL OR ENGINEERED FILL. IN ADDITION, PLACE 8 INCHES OF # 8 STONE BELOW ALL STRUCTURES.
3. PROOFROLL EXPOSED FOUNDATION AND SLAB ON GRADE SUBGRADE SOILS TO DELINEATE SOFT SOILS. REMOVE ANY UNSUITABLE SOIL AND REPLACE WITH WELL COMPACTED GRANULAR MATERIAL.
4. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE TO VERIFY THAT THE STRUCTURE SUBGRADE MATERIALS ARE SUITABLE AND ARE CONSISTENT WITH THE SUBSURFACE INVESTIGATION & FOUNDATION RECOMMENDATIONS REPORT IDENTIFIED ABOVE. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF THIS REQUIREMENT.

D. CONCRETE

1. REINFORCING SHALL BE DETAILED ACCORDING TO THE ACI DETAILING MANUAL.
2. STANDEES ARE REQUIRED FOR REINF STEEL SUPPORT BETWEEN MATS IN SLABS.
3. ALL CONSTRUCTION JOINTS TO BE PLACED WITH CHAMFERED EDGES. SEE STANDARD DETAIL FOR CONSTRUCTION JOINTS.
4. CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM ULTIMATE STRENGTH AT 28 DAYS OF 4500 PSI UNLESS OTHERWISE NOTED.
5. THE REINFORCING DETAILS SHOWN ON DRAWINGS TITLED "STANDARD STRUCTURAL DETAILS" ARE INTENDED TO ESTABLISH BASIC REINFORCING REQUIREMENTS FOR VARIOUS GENERAL TYPES OF HORIZONTAL AND VERTICAL JOINTS IN REINFORCED CONCRETE STRUCTURES. WHEN A CONDITION EXISTS IN A STRUCTURE THAT CONFORMS TO ONE OF THESE DETAILS, THE REINFORCING REQUIREMENTS SHOWN ON THE APPLICABLE DETAIL SHALL BE INCORPORATED INTO THE STRUCTURE UNLESS THE CONDITION IS SPECIFICALLY DETAILED ELSEWHERE ON THE DRAWINGS.
6. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS OTHERWISE INDICATED:

a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES.

b. CONCRETE EXPOSED TO EARTH, WEATHER OR FLUID SURFACES BUT CAST AGAINST FORMS: 2 INCHES.

c. SLABS:

FORMED CONCRETE SURFACES ABOVE WATER OR WASTEWATER: 2 INCHES

FORMED CONCRETE SURFACES ABOVE AREAS NOT CONTAINING WATER OR WASTEWATER: 1 INCH.

7. ALL DOWELS SHALL BE THE SAME SIZE AND SPACING AS THE BARS THAT ARE BEING DOWELED OR AS SHOWN ELSEWHERE ON THE DRAWINGS. ALL REINFORCING STEEL SHALL BE DOWELED TO ADJACENT STRUCTURAL MEMBERS UNLESS SPECIFICALLY EXCEPTED.
8. "L" REPRESENTS THE HIGH SPLICE, AS NOTED IN THE FOLLOWING TABLE FOR EACH SPECIFIC REINFORCING BAR SIZE. AN UNDIMENSIONED BEND REPRESENTS A STANDARD HOOK. TENSION SPLICES ARE IN ACCORDANCE WITH ACI 318 BASED ON GRADE 60 STEEL REINFORCING AND 4500 PSI 28 DAY CONCRETE STRENGTH BUT ARE NOT TO BE LESS THAN THAT NOTED BELOW.

BAR SIZE	CONDITION		
	OTHER	TOP	
3	18"	21"	TOP BARS ARE HORIZONTAL BARS
4	20"	24"	WITH MORE THAN 12 INCHES OF
5	24"	30"	CONCRETE CAST BELOW THE BAR
6	30"	36"	
7	34"	44"	
8	40"	50"	
9	46"	60"	
10	57"	74"	

9. PROVIDE TREBLE STAGGER LAP SPLICES FOR ALL HORIZONTAL "HOOP" REINFORCING STEEL FOR CIRCULAR TANKS.
10. REINFORCING DETAILS SHOWN REPRESENT MINIMUM REQUIREMENTS. ALTERNATE BUT EQUAL METHODS ARE ACCEPTABLE, BUT THEY SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE ENGINEER. SEE SPECIFICATION SECTION 03200 "CONCRETE REINFORCEMENT" FOR SHOP DRAWING REQUIREMENTS.
11. WHERE ONE GRID OF REINFORCING IS REQUIRED IN A WALL OR SLAB, THE GRID SHALL BE CENTERED IN THE ELEMENT, UNLESS OTHERWISE LOCATED IN THE PLANS WITH A CLEAR DISTANCE TO EITHER SIDE OF THE ELEMENT.
12. REINFORCING BARS: BILLET STEEL, DEFORMED BARS TO COMPLY WITH ASTM A615, GRADE 60.
13. WELDABLE REINFORCING BARS: ASTM A706, GRADE 60.
14. WELDED WIRE FABRIC: ASTM A1064.
15. TYPICAL REINFORCEMENT FOR ALL 8" CAST-IN-PLACE CONCRETE WALLS SHALL BE # 5 @ 12" C/C EACHWAY, UNLESS OTHERWISE NOTED.
16. TYPICAL REINFORCEMENT FOR ALL 12" CAST-IN-PLACE CONCRETE WALLS SHALL BE # 6 @ 12" C/C EACHWAY, EACH FACE, (EWEF) UNLESS OTHERWISE NOTED.
17. ADDITIONAL REINFORCEMENT IS REQUIRED AT OPENINGS. SEE DETAIL LOCATED ON THE STANDARD DETAIL SHEETS.
18. IF NOT OTHERWISE DETAILED OR NOTED THE ANCHORING OF REINFORCING STEEL TO EXISTING CONCRETE SHALL UTILIZE HILTI HIT-HY 200 INJECTION ADHESIVE AND SHALL HAVE THE FOLLOWING REQUIRED EMBEDMENT:

BAR SIZE	# 3	# 4	# 5	# 6	# 7	# 8
EMBEDMENT	5"	6"	8"	9"	11"	12"

USE AND INSTALLATION ARE TO BE IN ACCORDANCE WITH THE MANUFACTURERS PUBLISHED INSTRUCTIONS.

OTHER ANCHORING SYSTEMS, APPROVED EQUAL BY THE ENGINEER, MAY BE USED BUT THEY SHALL NOT BE USED WITHOUT SUBMITTAL OF APPROPRIATE DOCUMENTATION AND APPROVAL BY THE ENGINEER.

19. PROVIDE BEAM BOX OUTS FOR COMPLETE WIDTH OF BEAM AND THICKNESS OF WALL SUPPORT BELOW UNLESS SPECIFICALLY EXCEPTED.
20. EXPOSED REINFORCING STEEL RESULTING FROM SAW-CUTTING OF EXISTING CONCRETE STRUCTURAL ELEMENTS SHALL BE REPAIRED AS FOLLOWS: REINFORCING STEEL SHALL BE BURNED BACK 1 INCH FROM THE EXPOSED CONCRETE SURFACE. REINFORCING STEEL SHALL BE COATED WITH A CORROSION INHIBITOR. RESULTING HOLE SHALL BE PATCHED USING GROUT.
21. INTERIOR SLABS-ON-GRADE SHALL BE PLACED ON 6 INCHES OF # 8 STONE. STONE BASE IS TO BE CONTINUOUS UNDER THICKENED SLABS.
22. FOR ALL FINISHED SPACES PROVIDE VAPOR BARRIER BELOW ALL SLAB ON GRADE CONCRETE.
23. CONTROL JOINTS IN SLABS ON GRADE SHALL BE SPACED AS SHOWN ON PLANS. WHERE NOT SHOWN, JOINTS SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 15 FEET. JOINTS SHALL BE HAND TOOLED, CAST IN, OR SOFT CUT.
24. IN WALLS, THE HORIZONTAL LENGTH OF PLACEMENT SHALL NOT EXCEED 40 FEET.
25. ALL USED CORNERS SHALL HAVE 3/4 INCH CHAMFER.
26. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE.
27. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS INDICATED IN THE SPECIFICATION TO FACILITATE PLACEMENT OR PUMPING, THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE. NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S APPROVAL. ALL ADMIXTURES ARE TO BE SUBMITTED WITH THE CONCRETE MIX DESIGN AND ARE TO BE APPROVED PRIOR TO USE. CONCRETE WITH HIGH-RANGE WATER REDUCING ADMIXTURE SHALL HAVE A MAXIMUM SLUMP OF 3 INCHES PRIOR TO ADDING ADMIXTURE. THE CONTRACTOR, IN COLLABORATION WITH THE CONCRETE SUPPLIER, SHALL TAKE APPROPRIATE STEPS TO COMPENSATE FOR THE LOSS OF AIR-ENTRAINMENT DURING PUMPING.
28. WHERE NEW CONCRETE IS DEPOSITED AGAINST CONCRETE THAT IS GREATER THAN 28 DAYS OLD, THOROUGHLY CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL, AND APPLY BONDING AGENT FOLLOWING RECOMMENDATIONS OF MANUFACTURER.
29. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS IN SIMILAR SECTIONS OR AREAS.
30. MECHANICAL SPLICES, EMBEDDED DOWELS WITH MECHANICAL SPLICES AND DOWEL BAR SUBSTITUTES, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING BAR PER ACI REQUIREMENTS. SPECIFIC USE SHALL BE APPROVED BY ENGINEER.

E. POST INSTALLED ANCHORS

1. ADHESIVE ANCHORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
2. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
3. EXISTING REINFORCING BARS IN CONCRETE OR MASONRY MAY CONFLICT WITH ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE REINFORCING CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL LOCATE EXISTING REINFORCING BARS IN THE AREA OF THE CONCRETE ANCHORS BY FERROSCAN, GPR, X-RAY OR OTHER MEANS. RELOCATION OF ANCHOR SHALL ONLY BE WITH THE APPROVAL OF THE ENGINEER OF RECORD.
4. ADHESIVE PRODUCT

a. CONCRETE: HILTI HIT-HY 200 INJECTION ADHESIVE

5. ANCHOR PRODUCT FOR CONCRETE/MASONRY: HILTI HAS-R316 SS ANCHOR

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	PROJECT NUMBER	299526-04-001					

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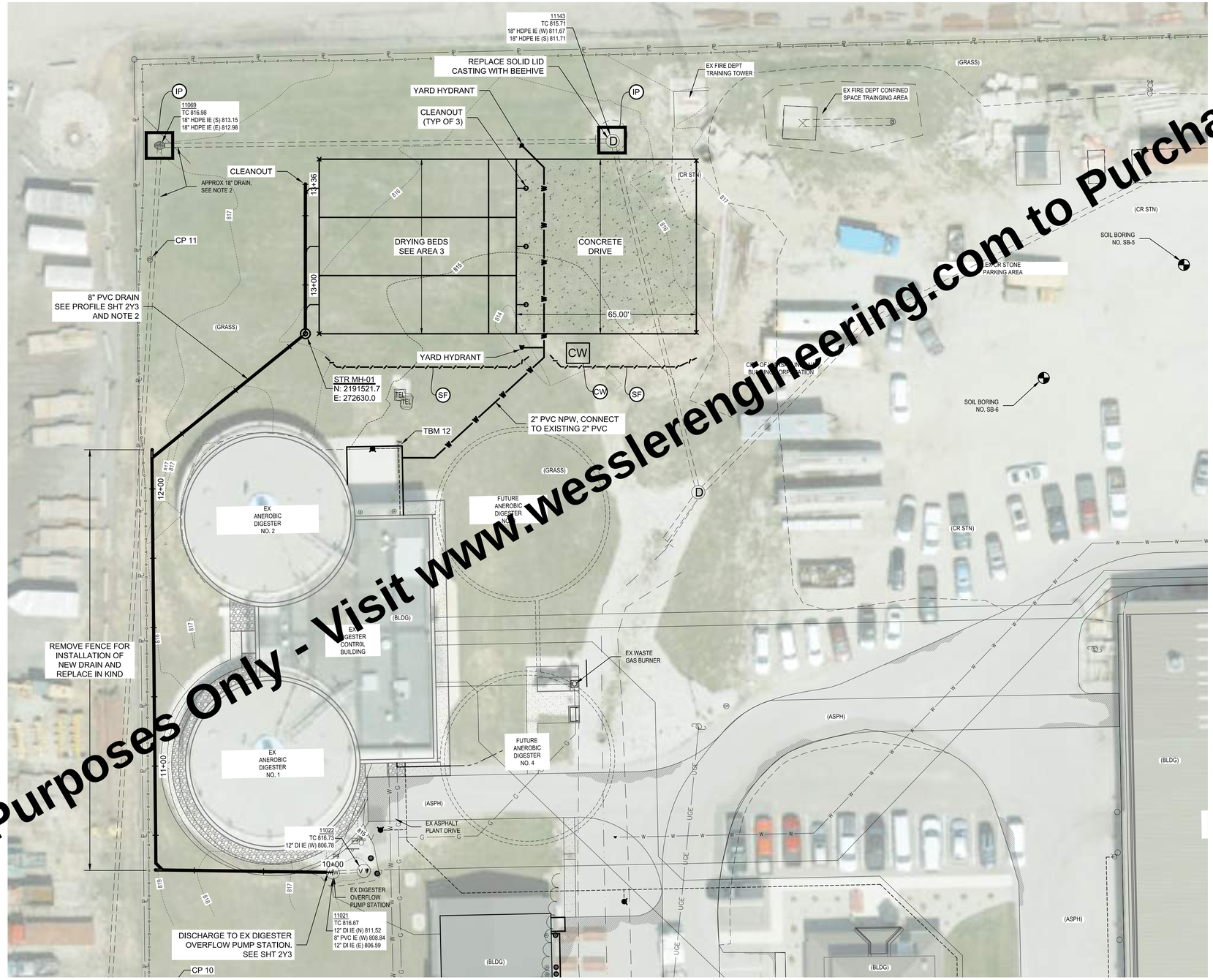
WASTEWATER TREATMENT PLANT DRYING BEDS

CITY OF WARSAW, INDIANA

STRUCTURAL GENERAL NOTES

SHEET NO. **1S1**

PAGE NO. 4



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0 10 20 40 FT
1" = 20'

GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. LOCATION OF EXISTING 18" DRAIN PIPE APPROXIMATED FROM HISTORICAL DRAWINGS. FIELD VERIFY LOCATION AND DEPTH, AND ADJUST LOCATION OF NEW 8" PVC DRAIN LINE TO AVOID CONFLICT.

KEYED NOTES

SF	SF	SILT FENCE OR FIBER FILTRATION TUBE
IP	IP	INLET PROTECTION
CW	CW	CONCRETE WASHOUT

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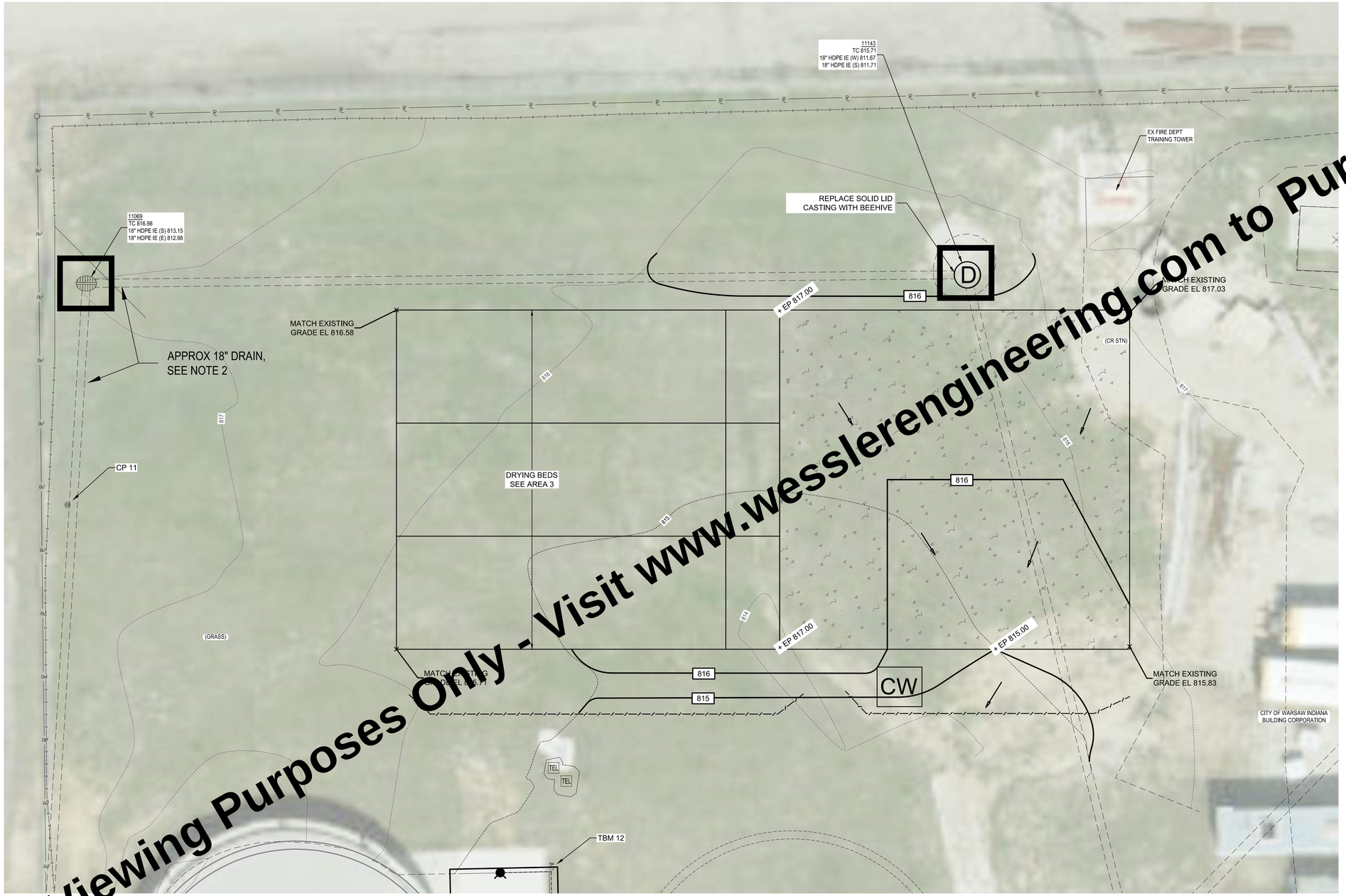
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CITY OF WARSAW, INDIANA

NEW SITE LAYOUT AND PIPING PLAN

SHEET NO. 2Y1
PAGE NO. 5

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0 5 10 20 FT
1" = 10'

GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. LOCATION OF EXISTING 18" DRAIN PIPE APPROXIMATED FROM HISTORICAL DRAWINGS. FIELD VERIFY LOCATION AND DEPTH, AND ADJUST LOCATION OF NEW 8" PVC DRAIN LINE TO AVOID CONFLICT.

KEYED NOTES

SF	SF	SILT FENCE OR FIBER FILTRATION TUBE
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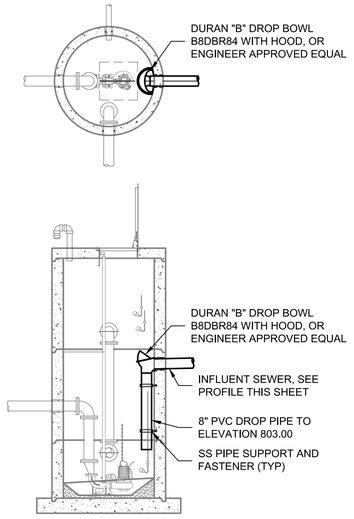
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NEW SITE GRADING PLAN

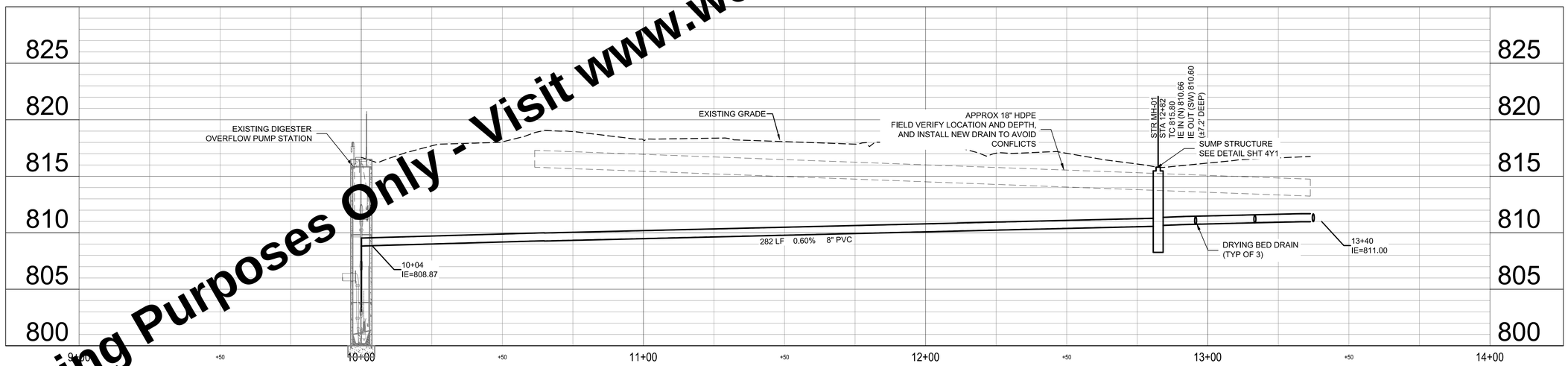
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PAGE NO. 6

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MODIFICATIONS TO EXISTING
DIGESTER OVERFLOW PUMP STATION
SCALE: 1"=5'



DRAIN LINE PROFILE
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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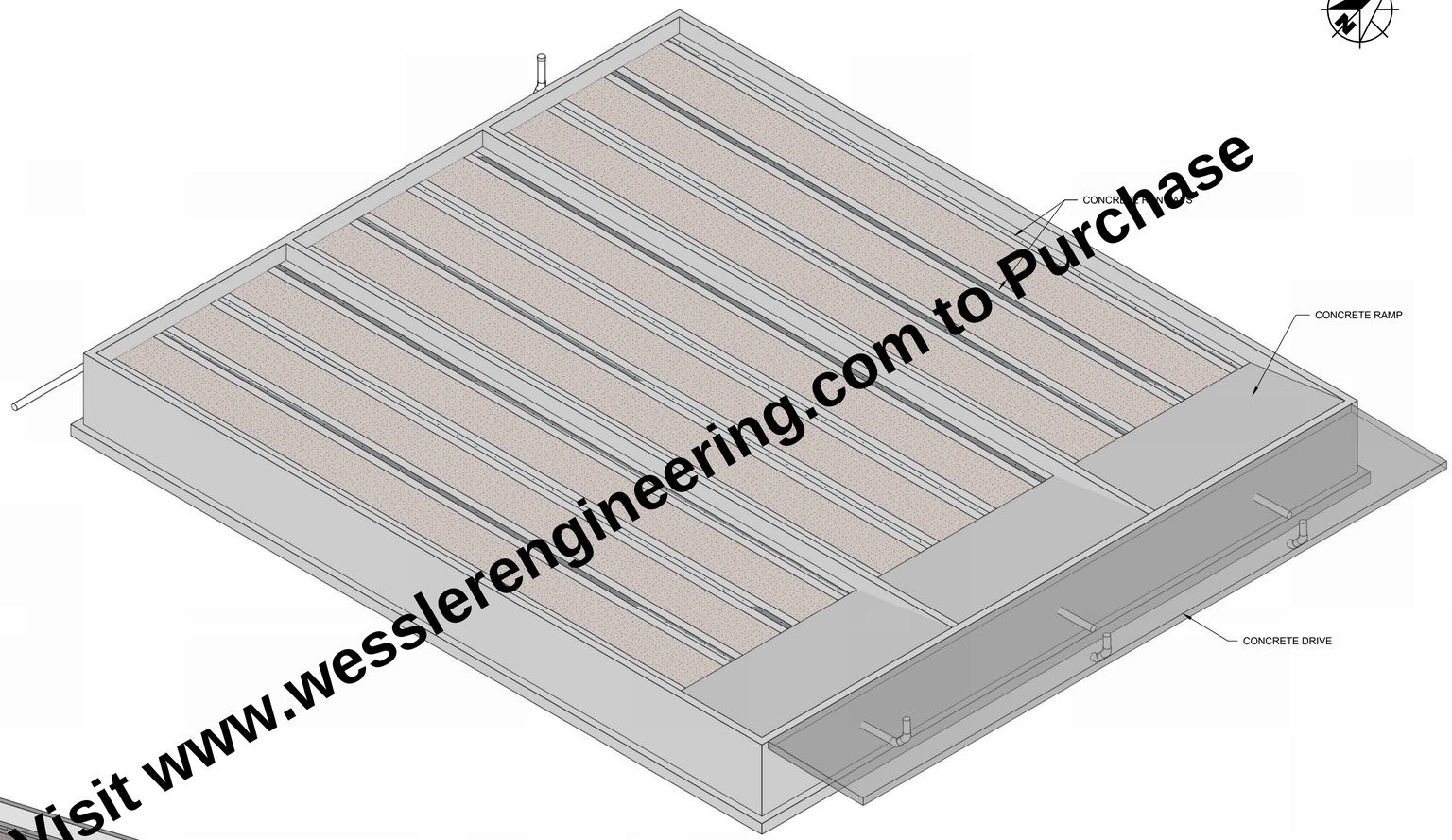
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DRAIN LINE PROFILE

SHEET NO. **2Y3**

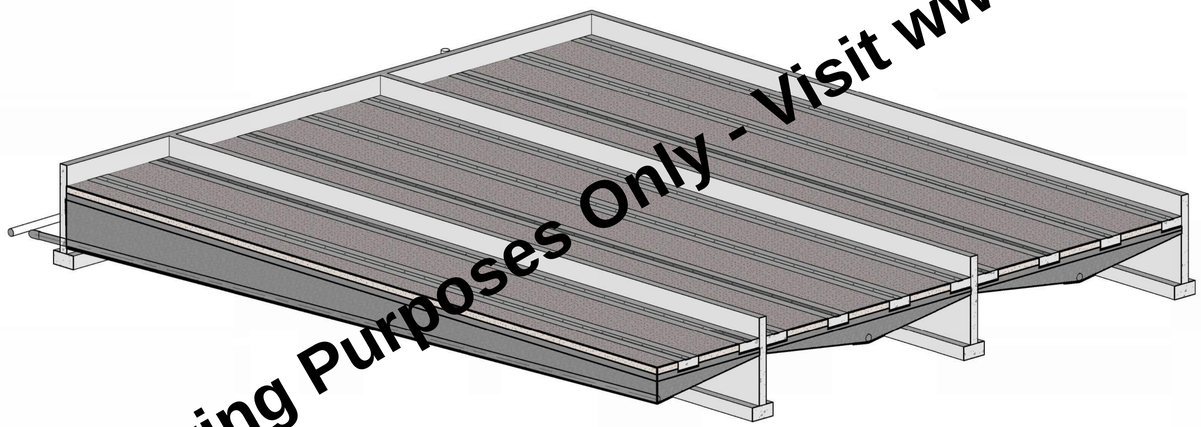
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PERPSECTIVE VIEW - SOUTHEAST

SCALE: NONE



CUTAWAY VIEW - SOUTHEAST

SCALE: NONE

NOTE:
PERSPECTIVE VIEWS ARE FOR ILLUSTRATIONS ONLY.

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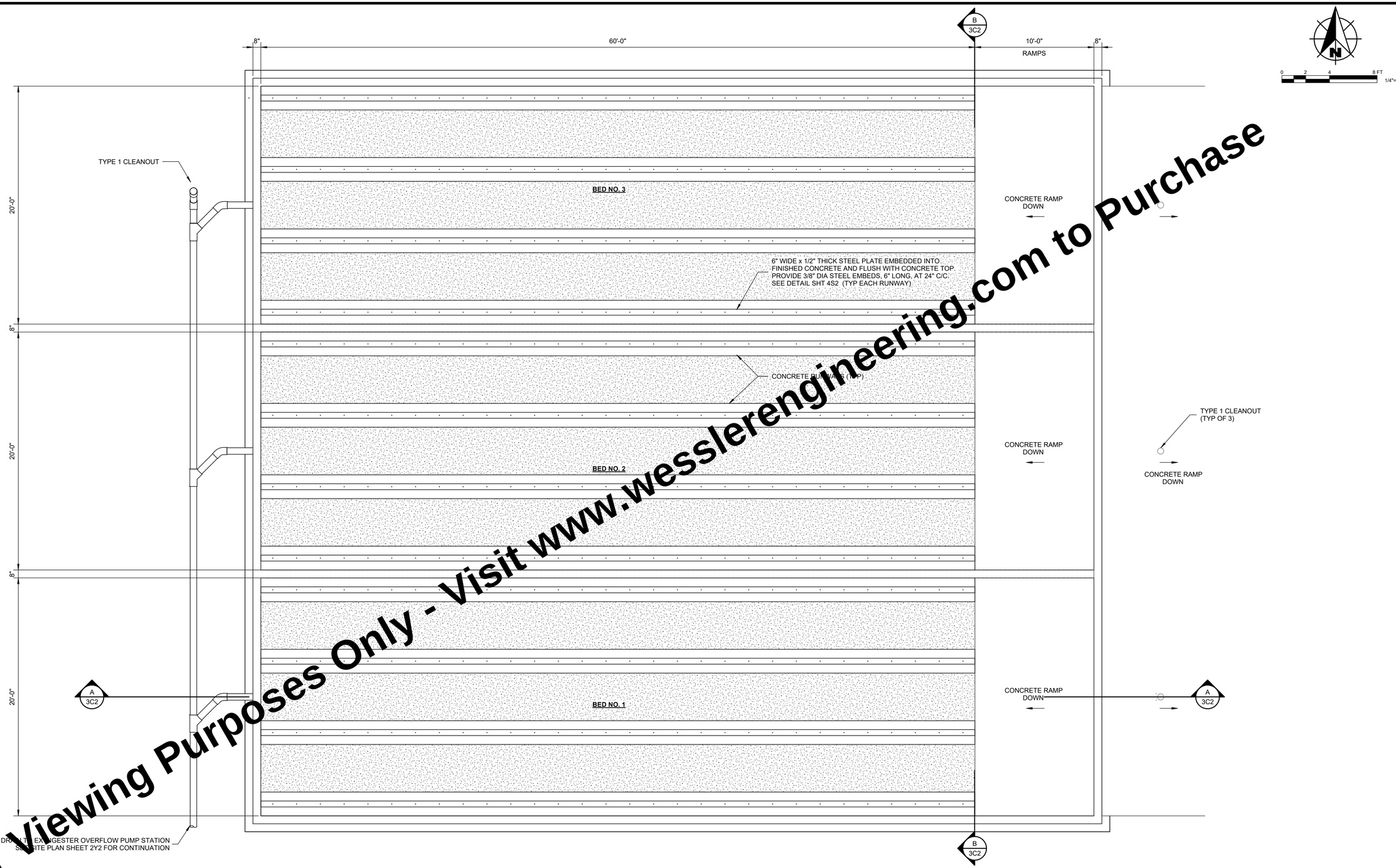
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CITY OF WARSAW, INDIANA

NEW DRYING BEDS
PERSPECTIVE VIEWS

SHEET NO.
3G1
PAGE NUMBER
8

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CIVIL - MAIN LEVEL

SCALE: 1/4" = 1'-0"

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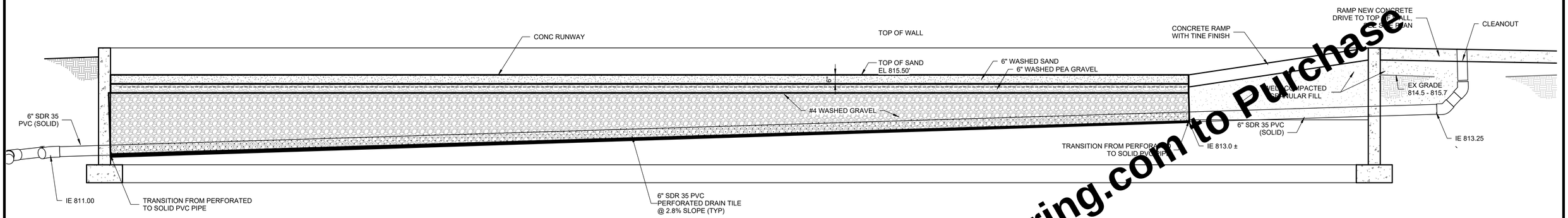
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CITY OF WARSAW, INDIANA

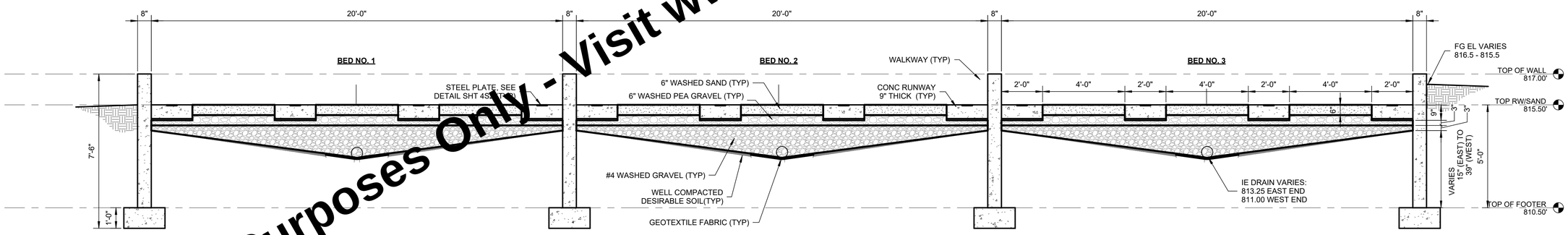
NEW DRYING BEDS
PLAN

SHEET NO.
3C1
PAGE NUMBER
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SECTION A
SCALE: 3/8" = 1'-0"
3C1



SECTION B
SCALE: 3/8" = 1'-0"
3C1

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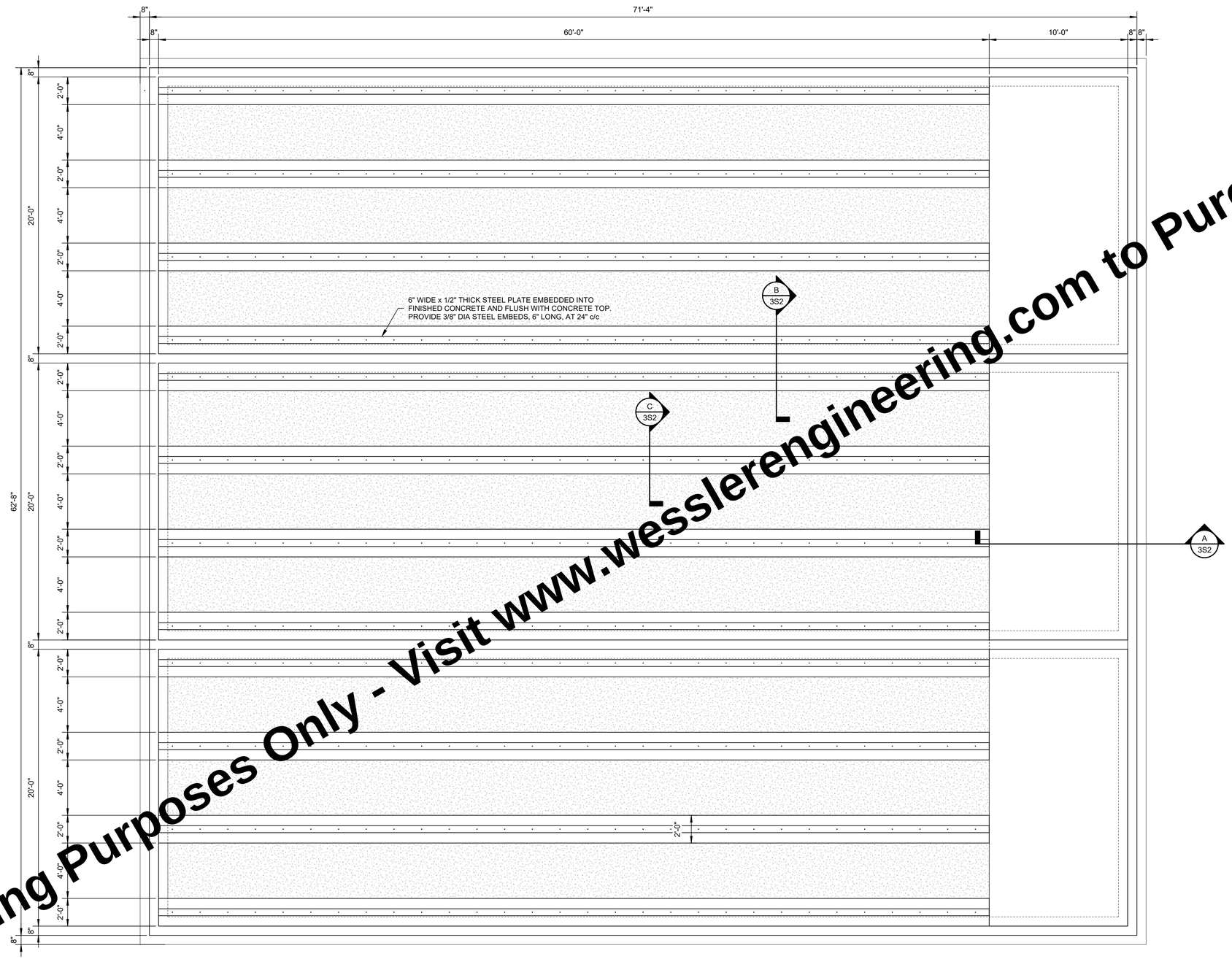
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CITY OF WARSAW, INDIANA

NEW DRYING BEDS
SECTIONS

SHEET NO. 3C2
PAGE NUMBER 10

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STRUCTURAL PLAN

SCALE: 1/4" = 1'-0"

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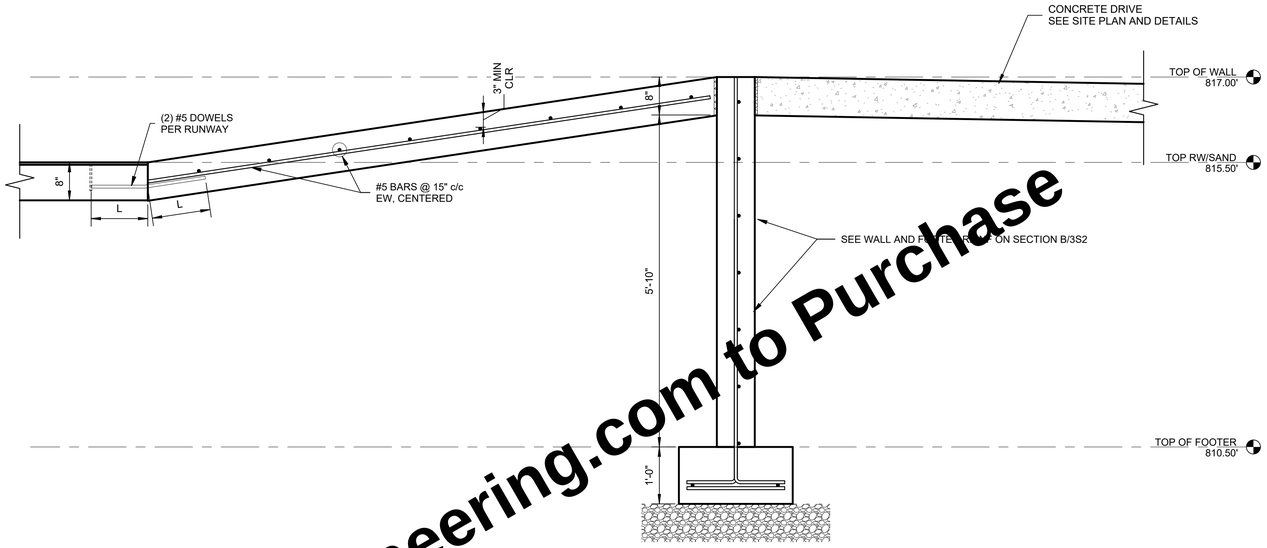
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NEW DRYING BEDS
PLAN

SHEET NO. **3S1**

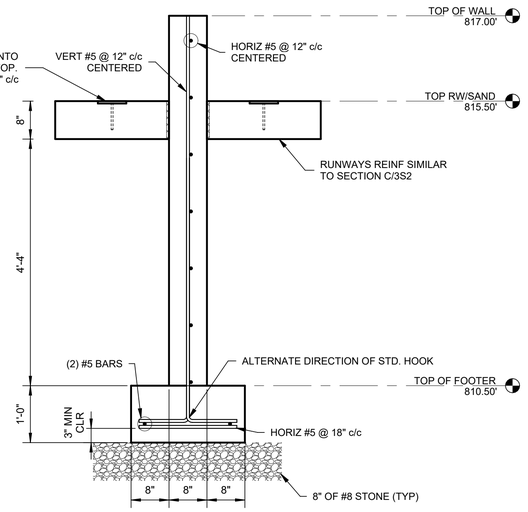
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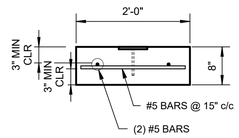


SECTION A
SCALE: 3/4" = 1'-0"
3S1

WALL REINF TYP ALL WALLS



SECTION B
SCALE: 3/4" = 1'-0"
3S1



REINFORCING TYP ALL RUNWAYS

SECTION C
SCALE: 3/4" = 1'-0"
3S1

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JAKOB BRUHL
REGISTERED
No. 12300914
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/6/2026

WESSLER ENGINEERING
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WASTEWATER TREATMENT PLANT DRYING BEDS

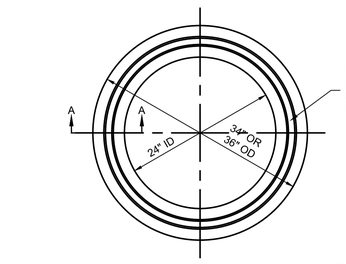
CITY OF WARSAW, INDIANA

NEW DRYING BEDS
SECTIONS

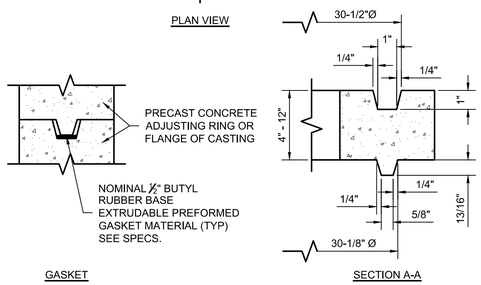
SHEET NO.
3S2

PAGE NUMBER
12

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PLAN VIEW

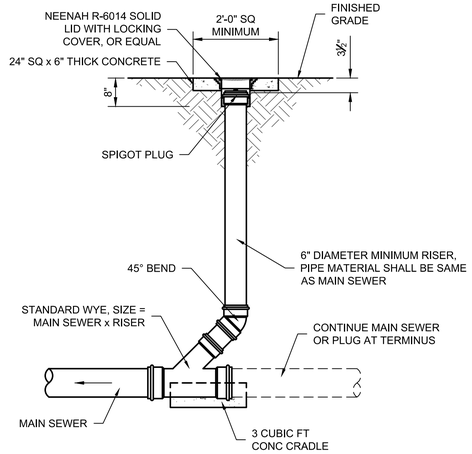


GASKET

SECTION A-A

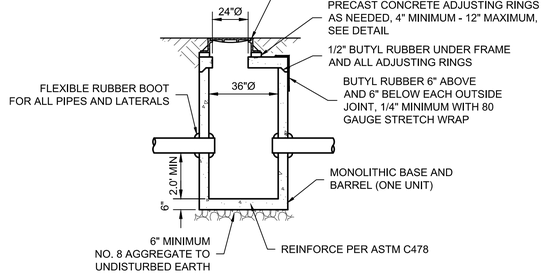
ADJUSTING RING (OPTION 1)

SCALE: NONE



SANITARY SEWER CLEANOUT

SCALE: NONE



SUMP STRUCTURE

SCALE: NONE

SANITARY SEWER SPECIFICATIONS

1. DESIGN
   - 1.1. ALL SANITARY SEWERS SHALL BE DESIGNED IN ACCORDANCE WITH 327 INDIANA ADMINISTRATIVE CODE 3-6 (327IAC3-6)

2. REGULATORY AGENCY APPROVAL
   - 2.1. ALL MUNICIPAL SANITARY SEWERS SHALL BE APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) IN ACCORDANCE WITH 327 INDIANA ADMINISTRATIVE CODE ARTICLE 3. ONE COPY OF THE IDEM CONSTRUCTION PERMIT SHALL BE SUBMITTED TO THE WARSAW WASTEWATER UTILITY MANAGER AND TO THE WARSAW PLANNING DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY MUNICIPAL SANITARY SEWER OR APPURTENANCE.
   - 2.2. ACCEPTABLE GRAVITY SANITARY SEWER PIPE MATERIAL:
     - 2.2.1. POLYVINYL CHLORIDE (PVC) SDR35 OR SDR21.
     - 2.2.2. VITRIFIED CLAY PIPE.
     - 2.2.3. CEMENT-MORTAR LINED DUCTILE-IRON PIPE (DIP) WITH APPROVAL OF WASTEWATER UTILITY.
   - 2.3. ACCEPTABLE PRESSURE PIPE MATERIAL:
     - 2.3.1. POLYVINYL CHLORIDE (PVC) SDR21 (DIA >4") OR SDR26 (DIA <4").
     - 2.3.2. POLYVINYL CHLORIDE (PVC) STANDARD WATER TRANSMISSION PIPE (DIAMETER 14" THROUGH 36").
     - 2.3.3. HDPE SDR21 BASED ON OUTSIDE DIAMETER.
     - 2.3.4. DUCTILE IRON PIPE.

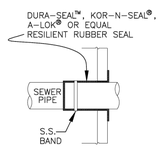
3. INSTALLATION
   - 3.1. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE BEDDING DETAIL (SEE SHT 10).
   - 3.2. GPS (Global Positioning System) COORDINATES SHALL BE PROVIDED FOR ALL STRUCTURES AND FORCE MAINS.
   - 3.3. TRACER WIRE SHALL BE INSTALLED WITH ALL FORCE MAIN PIPE.
     - 3.3.1. TRACER WIRE SHALL BE COPPERHEAD REINFORCED TRACER WIRE #12 AWG EHS WITH TENSILE/BREAK LOAD OF 1150 LBS OR EQUAL
     - 3.3.2. TRACER WIRE SHALL BE SECURED TO THE TOP OF THE PIPE WITH TAPE AT INTERVALS NOT TO EXCEED 10 FEET.
     - 3.3.3. TRACER WIRE INSTALLED ON PIPE INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING SHALL HAVE A TENSILE STRENGTH GREATER THAN THE PIPE BEING PULLED.
     - 3.3.4. TRACER WIRES SHALL HAVE A POINT OF CONNECTION AT THE BEARING EQUIPMENT AT EACH END OF PIPE. WIRE SHALL BE INSTALLED IN A RHINO TRIVIEW MARKER POST. THE POST SHALL BE MARKED WITH "WARNING: SEWER FORCE MAIN".
     - 3.3.5. HEAT SHRINK SPLICES ARE PERMITTED ON TRACER WIRE AT HDD PIPE CONNECTIONS, MANHOLES, VALVE BOXES, STRUCTURES OR LOCATOR STATION. CONNECTIONS SHALL BE MADE BY STRIPPING IN INSULATION BACK ONE (1) INCH AND JOINING THE TWO ENDS USING AN APPROVED MECHANICAL CONNECTOR AND A SPLIT BOLT CONNECTOR. THE EXPOSED WIRES TO BE THOROUGHLY WRAPPED WITH ELECTRICAL TAPE.
   - 3.4. A MINIMUM OF ONE (1) AND A MAXIMUM OF THREE (3) CONCRETE ADJUSTING RINGS SHALL BE PERMITTED. ALL RINGS SHALL HAVE A MINIMUM OF ½ INCH OF TYPE N MORTAR PLACED BETWEEN THE CASTING AND THE ADJUSTING RING(S). DRY STACKING IS NOT PERMITTED.
   - 3.5. STEPS SHALL NOT BE INSTALLED IN MANHOLES.

4. TESTING
   - 4.1. ALL SEWER AND MANHOLE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE WASTEWATER UTILITY MANAGER, OR DESIGNATED REPRESENTATIVE. A 48 HOUR NOTICE IS REQUIRED BEFORE CONDUCTING ANY TESTS. WRITTEN RESULTS OF ALL TESTS SHALL BE SUBMITTED TO THE WASTEWATER UTILITY MANAGER WITHIN TEN (10) DAYS OF CONDUCTING TESTS.
   - 4.2. TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE IN ACCORDANCE WITH 327 INDIANA ADMINISTRATIVE CODE 3-6-19.
     - 4.2.1. A DEFLECTION TEST SHALL PERFORMED ON EACH FLEXIBLE PIPE FOLLOWING THE ELAPSE OF THIRTY (30) DAYS AFTER THE PLACEMENT OF THE FINAL BACKFILL.
     - 4.2.2. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT (5%) OR GREATER.
     - 4.2.3. THE DIAMETER OF THE RIGID BALL OR MANDREL USED FOR A DEFLECTION TEST SHALL BE NO LESS THAN NINETY-FIVE PERCENT (95%) OF THE BASE INSIDE DIAMETER OF THE PIPE TO BE TESTED, DEPENDENT ON WHAT IS SPECIFIED IN THE CORRESPONDING ASTM STANDARD. THE TEST SHALL NOT BE PERFORMED WITH THE RIGID BALL OR MECHANICAL PULLING DEVICE.
   - 4.3. ALL GRAVITY SEWERS SHALL BE TESTED USING ONE (1) OF THE FOLLOWING LEAKAGE TEST TYPES:
     - 4.3.1. A HYDROSTATIC TEST SHALL BE PERFORMED WITH A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD. THE RATE OF EXFILTRATION OR INFILTRATION SHALL NOT EXCEED TWO HUNDRED (200) GALLONS PER INCH OF PIPE DIAMETER PER LINEAR MILE PER DAY.
     - 4.3.2. AN AIR TEST SHALL CONFORM TO ONE OF THE FOLLOWING METHODS:
       - 4.3.2.1. ASTM C828-93, STANDARD TEST METHOD FOR LOW-PRESSURE AIR TEST OF VITRIFIED CLAY PIPE LINES, FOR CLAY PIPE.
       - 4.3.2.2. ASTM F1417-11a, STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC NON-PRESSURE SEWER LINES USING LOW-PRESSURE AIR, FOR PLASTIC PIPE.
   - 4.4. ALL FORCE MAINS SHALL BE PRESSURE AND LEAK TESTED IN ACCORDANCE WITH ONE (1) OF THE FOLLOWING METHODS:
     - 4.4.1. AWWA STANDARD C600-93, AWWA STANDARD FOR INSTALLATION OF DUCTILE-IRON WATER MAINS AND THEIR APPURTENANCES.
     - 4.4.2. AWWA STANDARD C605-94, AWWA STANDARD FOR UNDERGROUND INSTALLATION OF POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FITTINGS FOR WATER.

5. AS-BUILT DRAWINGS
   - 5.1. THE DEVELOPER/CONTRACTOR SHALL PROVIDE THE BOARD OF PUBLIC WORKS CERTIFIED "AS-BUILT" DRAWINGS OF ALL SANITARY SEWERS AND SERVICE CONNECTIONS. AT A MINIMUM THE FOLLOWING INFORMATION SHALL BE INCLUDED ON THE DRAWINGS:
     - 5.1.1. PIPE SIZE AND MATERIAL
     - 5.1.2. INVERT ELEVATIONS
     - 5.1.3. CASTING RIM ELEVATIONS
     - 5.1.4. LENGTHS AND SLOPES OF ALL PIPES
     - 5.1.5. CERTIFIED STATEMENT BY A PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF INDIANA THAT THE INSTALLED SANITARY SYSTEM SUBSTANTIALLY COMPLIES WITH CONSTRUCTION PLANS APPROVED BY THE CITY OF WARSAW AND WITH 327IAC3-6.

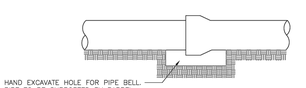
City of Lakes - Since 1854 — WARSAW INDIANA — Living, Working, Playing

DATE: 12/20/2019		
REVISION		
No.	Description	Date
CONSTRUCTION STANDARDS		
SANITARY SEWER SPECIFICATIONS		
7		



PIPE CONNECTION DETAIL

SCALE: NONE



PIPE LAYING

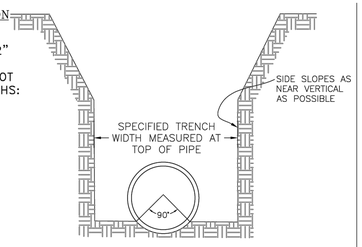
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MAXIMUM WIDTH OF EXCAVATION

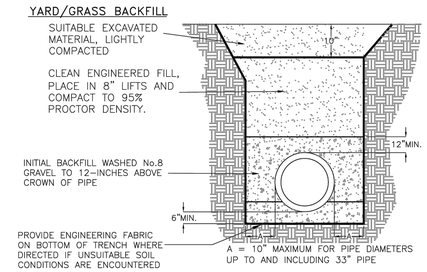
THE BOTTOM WIDTH OF THE TRENCH FROM BOTTOM TO 12" ABOVE PIPE AND INSIDE THE SHEETING, IF USED, SHALL NOT EXCEED THE FOLLOWING WIDTHS:

PIPE SIZE	WIDTH
6"	2'-6"
8"	2'-6"
10"	2'-6"
12"	2'-8"
15"	2'-10"
18"	3'-2"
21"	3'-8"
24"	4'-0"
27"	4'-3"
30"	4'-7"
33"	5'-4"
36"	5'-8"



TRENCH SCHEDULE

SCALE: NONE



PIPE BEDDING IN YARDS/GRASS

SCALE: NONE

For Viewing Purposes Only - Visit www.wesslerengineering.com to Purchase

SCALE VERIFICATION	DRAWN BY	MRE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	GLR
	APPROVED BY	NAB
	ISSUE DATE	OCTOBER 2026
	PROJECT NUMBER	299526-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

NATHAN A. BRUNE — REGISTERED — No. 11900862 — STATE OF INDIANA — PROFESSIONAL ENGINEER — 10/10/2026

Nathan A. Brune

WESSLER ENGINEERING — More than a Project™

WASTEWATER TREATMENT PLANT DRYING BEDS

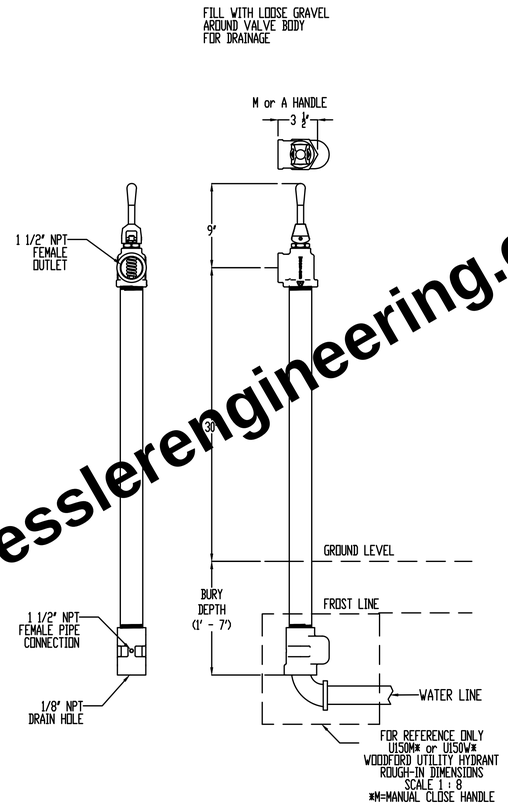
CITY OF WARSAW, INDIANA

SITE DETAILS

SHEET NO. **4Y1**

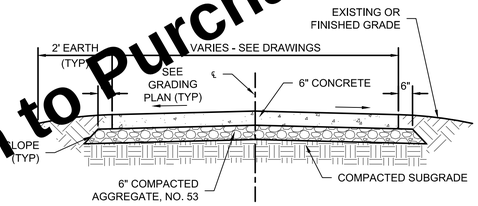
PAGE NO. 13

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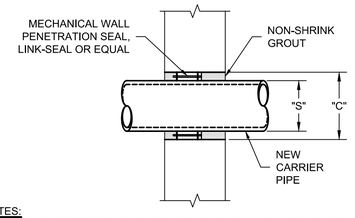
YARD HYDRANT

SCALE: NONE



CONCRETE DRIVE

SCALE: NONE



NOTES:

1. "S" DIMENSION FOR NEW PIPE THROUGH NEW WALL APPLICATION SHALL BE THE INSIDE DIAMETER OF THE PIPE SLEEVE.
2. "C" DIMENSION FOR NEW PIPE THROUGH EXISTING WALL APPLICATION SHALL BE THE DIAMETER OF THE CORE DRILLED HOLE REQUIRED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE "S" OR "C" DIMENSION REQUIRED FOR THE SIZE OF CARRIER PIPE BEING INSTALLED.
4. ALL TYPE A WALL PIPE FASTENERS, STUDS, BOLTS, NUTS AND WASHERS, SHALL BE STAINLESS STEEL.

NEW PIPE THROUGH EXISTING WALL

SCALE: NONE

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SCALE VERIFICATION	DRAWN BY	MRE
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	GLR
	APPROVED BY	NAB
	ISSUE DATE	OCTOBER 2026
	PROJECT NUMBER	299526-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

NATHAN A. BRUNE REGISTERED No. 11900862 STATE OF INDIANA PROFESSIONAL ENGINEER 10/16/2026

Nathan A. Brune

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WASTEWATER TREATMENT PLANT DRYING BEDS

CITY OF WARSAW, INDIANA

SITE DETAILS

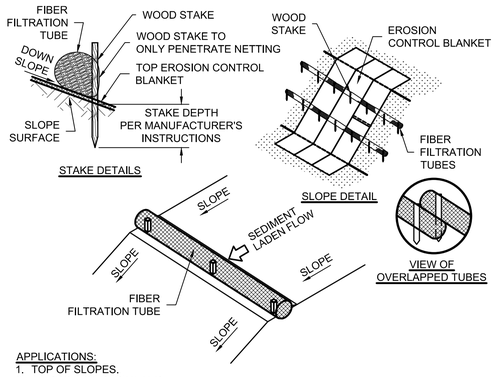
SHEET NO.

4Y2

PAGE NO.

14

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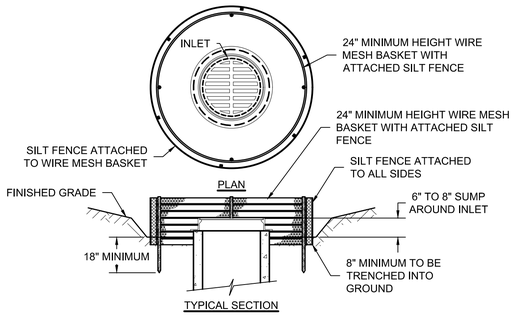
APPLICATIONS:
1. TOP OF SLOPES.
2. AT PROJECT PERIMETER.

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 - SLOPE

SCALE: NONE

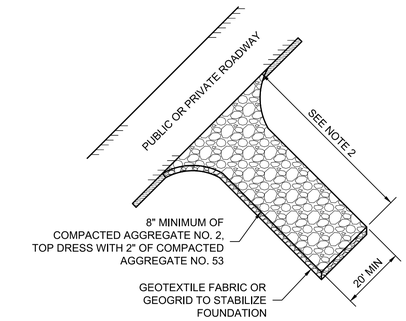


NOTES:
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
   a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
   b. WOVEN EXTRA STRENGTH - 50 LB/LIN IN. (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/IN. (MINIMUM).
   c. WOVEN STANDARD STRENGTH - 30 LB/LIN IN. (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/IN. (MINIMUM).
   d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), PER ASTM D4751.
   e. PERMITTIVITY - 0.05 S^{-1} (MAXIMUM), PER ASTM D4491.
2. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE FASTEN THE FABRIC SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 34" ABOVE THE ORIGINAL GROUND SURFACE.

MAINTENANCE:
1. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. REPLACE THE FABRIC PROMPTLY IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE. IMMEDIATELY MAKE ANY REQUIRED REPAIRS.
3. REMOVE SEDIMENT DEPOSITS FROM THE POOL AREA AFTER EACH STORM EVENT AND WHEN IT REACHES HALF THE HEIGHT OF THEE BARRIER.
4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED, AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE INLET SEDIMENT BARRIER

SCALE: NONE

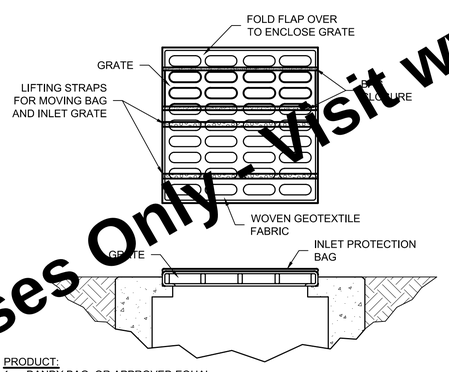


NOTES:
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

MAINTENANCE:
1. INSPECT DAILY AND REPLACE DISPLACED STONE.
2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE

SCALE: NONE



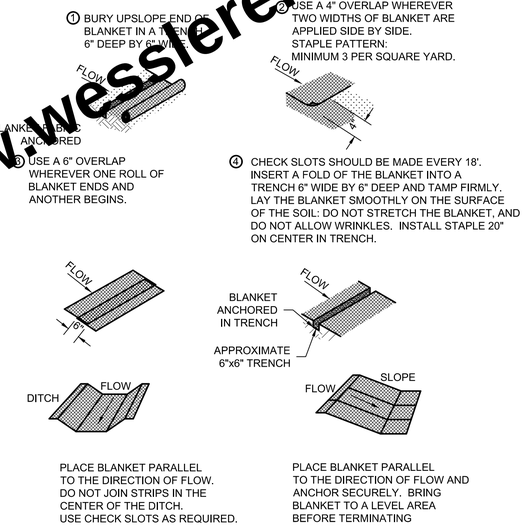
PRODUCT:
1. DANDY BAG, OR APPROVED EQUAL.

INSTALLATION:
1. THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END.
2. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
3. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE:
1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.
2. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE INLET PROTECTION BAG AS NEEDED.
3. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

INLET PROTECTION BAG

SCALE: NONE



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

EROSION CONTROL SCHEDULE

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
REVIEW THE EROSION CONTROL SCHEDULE ON THE DRAWINGS AND REVISE AS NEEDED TO PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS NEEDED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE.	COMPLETE BEFORE CONSTRUCTION BEGINS.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING AND WASTE HANDLING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.

EROSION CONTROL SCHEDULE

SCALE: NONE

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SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	GLR				
	APPROVED BY	NAB				
	ISSUE DATE	OCTOBER 2026				
	PROJECT NUMBER	299526-04-001				

NATHAN A. BRUNE REGISTERED No. 11900862 STATE OF INDIANA PROFESSIONAL ENGINEER 10/10/2026
Nathan A. Brune

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WASTEWATER TREATMENT PLANT DRYING BEDS

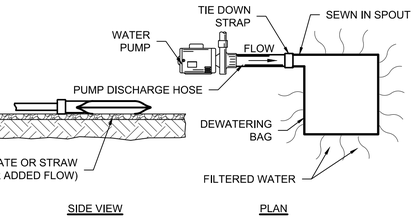
CITY OF WARSAW, INDIANA

EROSION CONTROL DETAILS

SHEET NO. **4EC1**

PAGE NO. 15

Drawing: X:\Warsaw\299526 Warsaw WWTP Drying Beds\DWG\Sheets\299526-MID.dwg | Layout: 18EC1 | Plotted: 10/02/26 @ 11:10:58 | LastSavedBy: MichelleE

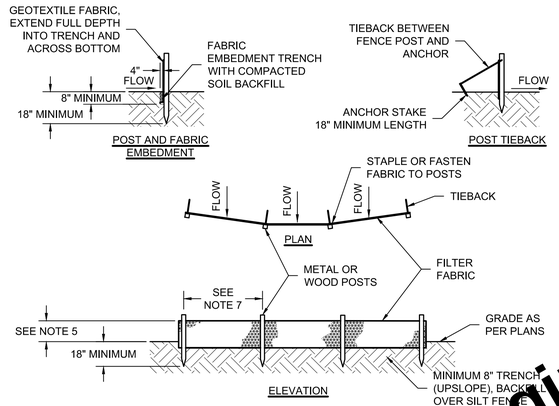


MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.35 (80)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M²(GAL/MIN/FT²)	3866 (95)
PERMITTIVITY	ASTM D4491	S^{-1}	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:
NRCS
HAND DEWATERING BAG
LINDCATCH

PUMPING BAG
SCALE: NONE



NOTES:
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
   a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
   b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
   c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
   d. APPARENT OPENING SIZE (AOS) (U.S. STANDARD) NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
   e. PERMITTIVITY - 0.05 S^{-1} (MAXIMUM), ASTM D4491.
2. POSTS FOR SILT FENCES SHALL BE EITHER 2"X2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE AT THE TOP.
3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
4. WIRE FOR WIRE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30". THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8'.
8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.

MAINTENANCE:
1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE
SCALE: NONE

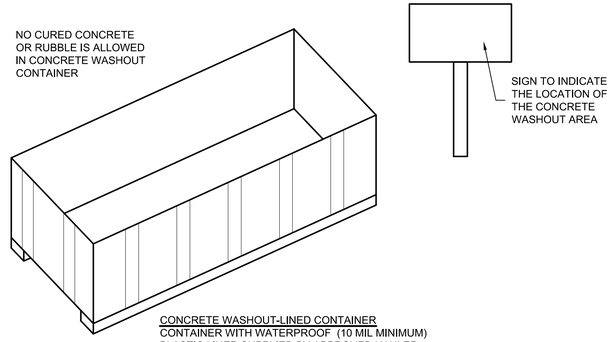
SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			⊢			A			⊣			
DORMANT SEEDING	⊢	B	⊣								⊢	B ⊣
TEMPORARY SEEDING			⊢			C			⊣	D		
SODDING				⊢		E			⊣			
MULCHING	⊢											⊣

A. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 100 LB/ACRE
B. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 150 LB/ACRE. PREPARE SEEDBED PRIOR TO NOV 20
C. = MIX 1 (128 LB/ACRE OATS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 2 (40 LB/ACRE PERENNIAL RYEGRASS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 3 (55 LB/ACRE ANNUAL RYEGRASS, 142 LB/ACRE PERENNIAL RYEGRASS, 17 LB/ACRE CREEPING RED FESCUE, 17 LB/ACRE KENTUCKY BLUEGRASS), OR MIX 4 (128 LB/ACRE OATS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS)
D. =MIX 5 (112 LB/ACRE RYE, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 6 (120 LB/ACRE WHEAT, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 7 (40 LB/ACRE PERENNIAL RYE, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), OR MIX 8 (40 LB/ACRE ANNUAL RYEGRASS, 40 LB/ACRE PERENNIAL RYEGRASS, 40 LB/ACRE CREEPING RED FESCUE, 40 LB/ACRE KENTUCKY BLUEGRASS)
E. = SOD
= ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD CELLULOSE FIBER (750 LB/ACRE) OR WOOD MULCH/CHIPS (10 TONS/ACRE)

NOTES:
1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
2. IRRIGATION NEEDED FOR 2 TO 4 WEEKS AFTER APPLYING SOD.
3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.
6. ADDITIONAL REQUIREMENTS AND INFORMATION ARE LOCATED IN THE OHIO DEPT. OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT MANUAL.

MAINTENANCE:
1. INSPECT WITHIN 24 HOURS OF EACH 0.5-INCH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



CONCRETE WASHOUT-LINED CONTAINER
CONTAINER WITH WATERPROOF (10 MIL MINIMUM) PLASTIC LINER SUPPLIED BY APPROVED HAULER

NOTES:
1. CONCRETE WASHOUT-LINED CONTAINER SHALL BE INSTALLED PRIOR TO ANY CONCRETE POURING ACTIVITIES ON SITE.

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 CONTAINER 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. REPAIR AND/OR REPLACE CONCRETE WASHOUT-LINED CONTAINER AS NECESSARY TO MAINTAIN CAPACITY FOR WASHOUT WATER.
2. CONCRETE WASHOUT SIGNS SHALL BE POSTED NEAR THE CONCRETE WASHOUT-LINED CONTAINER TO CLEARLY INDICATE THE LOCATION OF CONCRETE WASHOUT ACTIVITIES.

CONCRETE WASHOUT - LINED CONTAINER
SCALE: NONE

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	APPROVED BY	NAB
	ISSUE DATE	OCTOBER 2026
	PROJECT NUMBER	299526-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

NATHAN A. BRUNE REGISTERED No. 11900862 STATE OF INDIANA PROFESSIONAL ENGINEER 10/10/2006
Nathan A. Brune

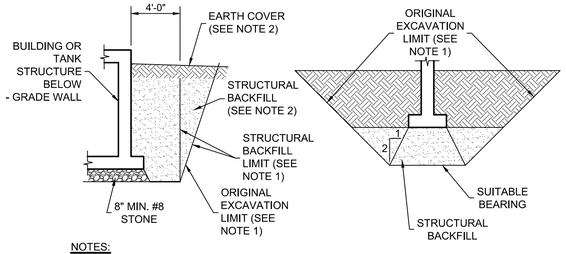
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WASTEWATER TREATMENT PLANT DRYING BEDS
CITY OF WARSAW, INDIANA

EROSION CONTROL DETAILS

SHEET NO. 4EC2
PAGE NO. 16

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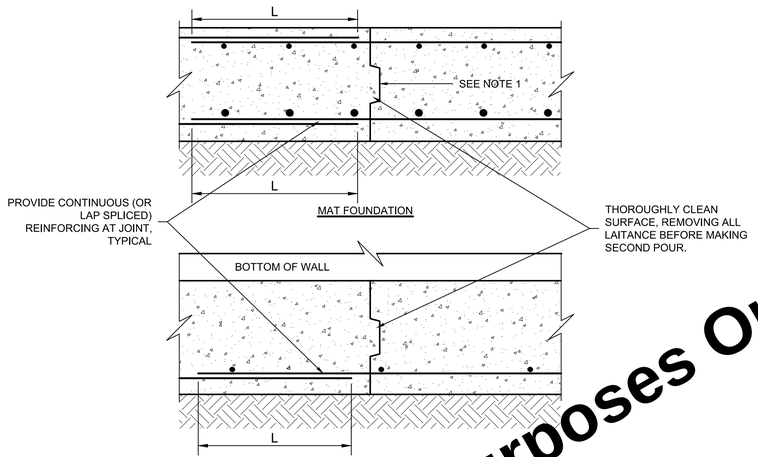


NOTES:

1. SEE GEOTECHNICAL REPORT FOR RECOMMENDATIONS AND REQUIREMENTS FOR EXCAVATION SLOPES
2. STRUCTURAL BACKFILL SHALL EXTEND A MINIMUM OF 4'-0" FROM STRUCTURAL WALL. SEE GEOTECHNICAL REPORT FOR ADDITIONAL DEFINED LIMITS. IF SUITABLE BACKFILL, OTHER THAN STRUCTURAL BACKFILL, IS PLACED BEYOND THE 4'-0" DISTANCE TO THE ORIGINAL EXCAVATION LIMIT, IT SHALL BE PLACED IN LIFTS WITH THE STRUCTURAL BACKFILL SUCH THAT BOTH MATERIALS ARE PROPERLY PLACED AND COMPACTED. PLACE EARTH COVER IN ACCORDANCE WITH THE EARTHWORK SPECIFICATION.

TYP BACKFILL AND UNDERCUT DETAIL (1 / ####)

SCALE: NONE

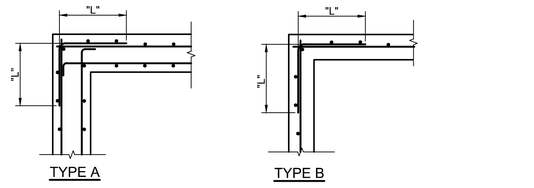


NOTES:

1. WATERSTOPPED JOINTS ARE REQUIRED FOR MAT FOUNDATIONS.

WALL AND MAT FOUNDATION CONSTRUCTION JOINT DETAIL (5 / 4S1)

SCALE: NONE

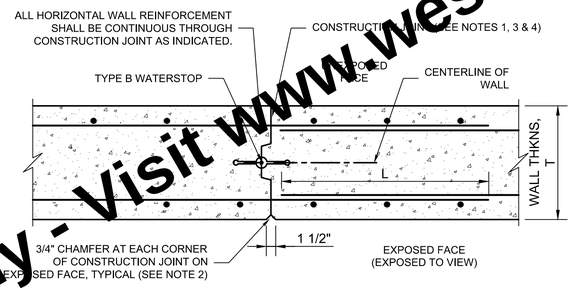


NOTE:

1. L = TENSION LAP SPLICE - SEE CONCRETE REINFORCING TENSION LAP TABLE.
2. WATERSTOPS ARE REQUIRED FOR WALLS AND SLABS THAT RETAIN FLUID.

HORIZONTAL REINFORCING CORNER DETAIL (2 / 4S1)

SCALE: NONE



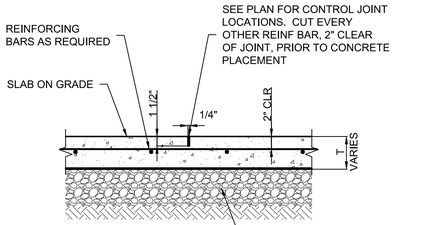
PLAN VIEW

NOTES:

1. CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE START OF CONCRETE CONSTRUCTION. CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS AT CONTROL JOINT LOCATIONS WHEN CONTROL JOINTS ARE PROVIDED.
2. AT WALLS WITH TWO EXPOSED FACES, PROVIDE REMOVABLE BEVELED WOOD STRIP ON BOTH SIDES OF WALL.
3. EXTEND CONSTRUCTION JOINT FROM TOP OF FOOTING TO TOP OF WALL UNLESS OTHERWISE INDICATED.
4. WATERSTOPPED JOINTS ARE REQUIRED FOR ALL BASEMENT WALLS AND WALLS THAT RETAIN FLUID. SEE TYPICAL WATERPROOF CONSTRUCTION JOINT DETAILS.

WALL VERTICAL CONSTRUCTION JOINT DETAIL (6 / 4S1)

SCALE: NONE

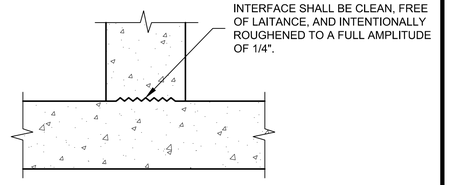


NOTES:

1. LAYOUT CONTROL JOINT LOCATIONS BEFORE SLAB CONSTRUCTION.
2. COORDINATE SAWCUT DEPTH WITH LOCATION OF TOP REINFORCING STEEL TO ENSURE THAT CONTINUOUS BARS ARE NOT SAWCUT.
3. SAWCUT JOINT AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS. THE CONCRETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLODGE AGGREGATE, AND WHEN THE EDGES OF THE CUT DO NOT RAVEL. COMPLETE SAWCUTTING BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING.
4. PREPARE AND SEAL JOINTS AS SPECIFIED.
5. CONSTRUCTION JOINTS SHALL BE LOCATED AT DEFINED CONTROL JOINT LOCATIONS.

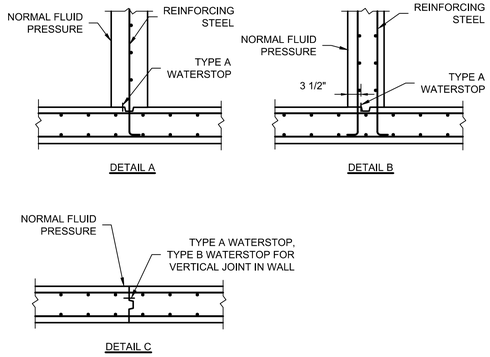
REINFORCED SLAB ON GRADE DETAIL (3 / 4S1)

SCALE: NONE



ROUGHENED JOINT DETAIL (4 / 4S1)

SCALE: NONE

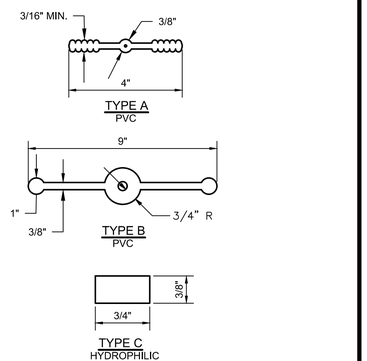


NOTE:

1. DETAILS APPLY FOR HORIZONTAL OR VERTICAL JOINTS.

WATERSTOP CONSTRUCTION JOINT DETAIL (7 / 4S1)

SCALE: NONE



WATERSTOP TYPES (8 / 4S1)

SCALE: NONE

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	PROJECT NUMBER	299526-04-001				

JAKOB BRUHL REGISTERED No. 12300914 STATE OF INDIANA PROFESSIONAL ENGINEER 10/10/2026

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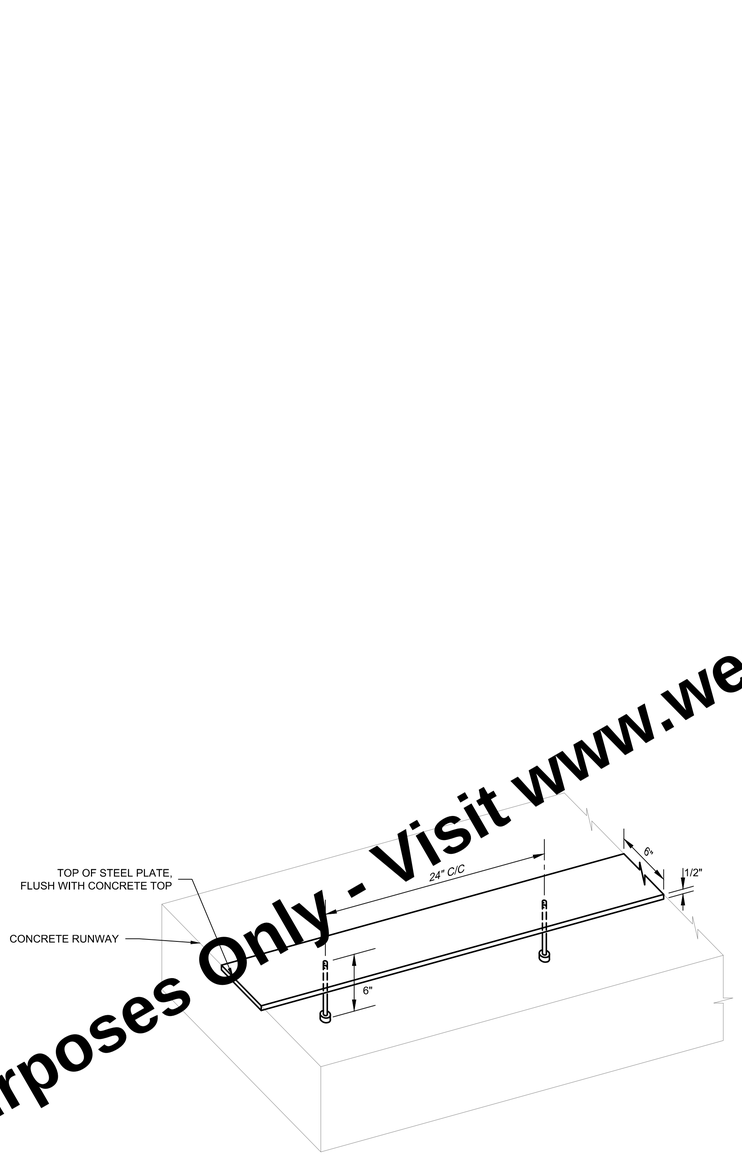
CITY OF WARSAW, INDIANA

STRUCTURAL DETAILS

SHEET NO. **4S1**

PAGE NO. 17

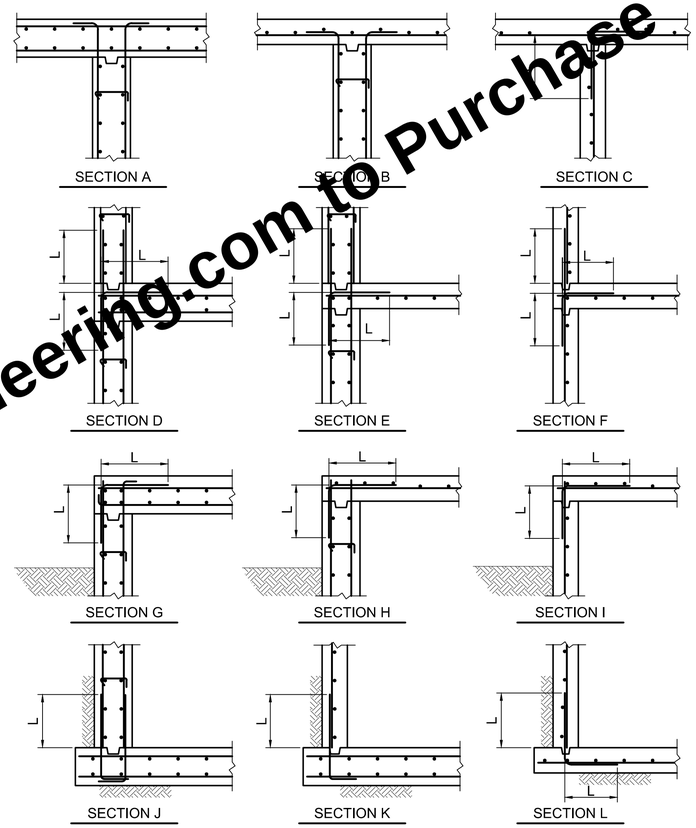
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NOTES:
1. EMBED PLATE AND STEEL EMBED STUD INTO CONCRETE DURING CONCRETE POUR.

CONCRETE RUNWAY - STEEL EMBED DETAIL

SCALE: NONE



NOTE:

1. L = TENSION LAP SPLICE - SEE CONCRETE REINFORCING TENSION LAP TABLE.
2. FOR WALLS WITH TWO MATS OF REINF. PROVIDE #3 WALL TIES AT TOP OF WALL AND @ 4'-0" c/c MAX. HORIZONTAL & VERTICAL.
3. WATERSTOPS ARE REQUIRED FOR WALLS/SLABS THAT RETAIN FLUID & BASEMENT WALLS/FOUNDATIONS.

WALL TO SLAB REINF. DETAIL (1/4S2)

SCALE: NONE

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JAKOB BRUHL REGISTERED No. 12300914 STATE OF INDIANA PROFESSIONAL ENGINEER 10/16/2026

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WASTEWATER TREATMENT PLANT DRYING BEDS

CITY OF WARSAW, INDIANA

STRUCTURAL DETAILS

SHEET NO. **4S2**

PAGE NO. 18

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