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PROJECT NO. 227120-04-001

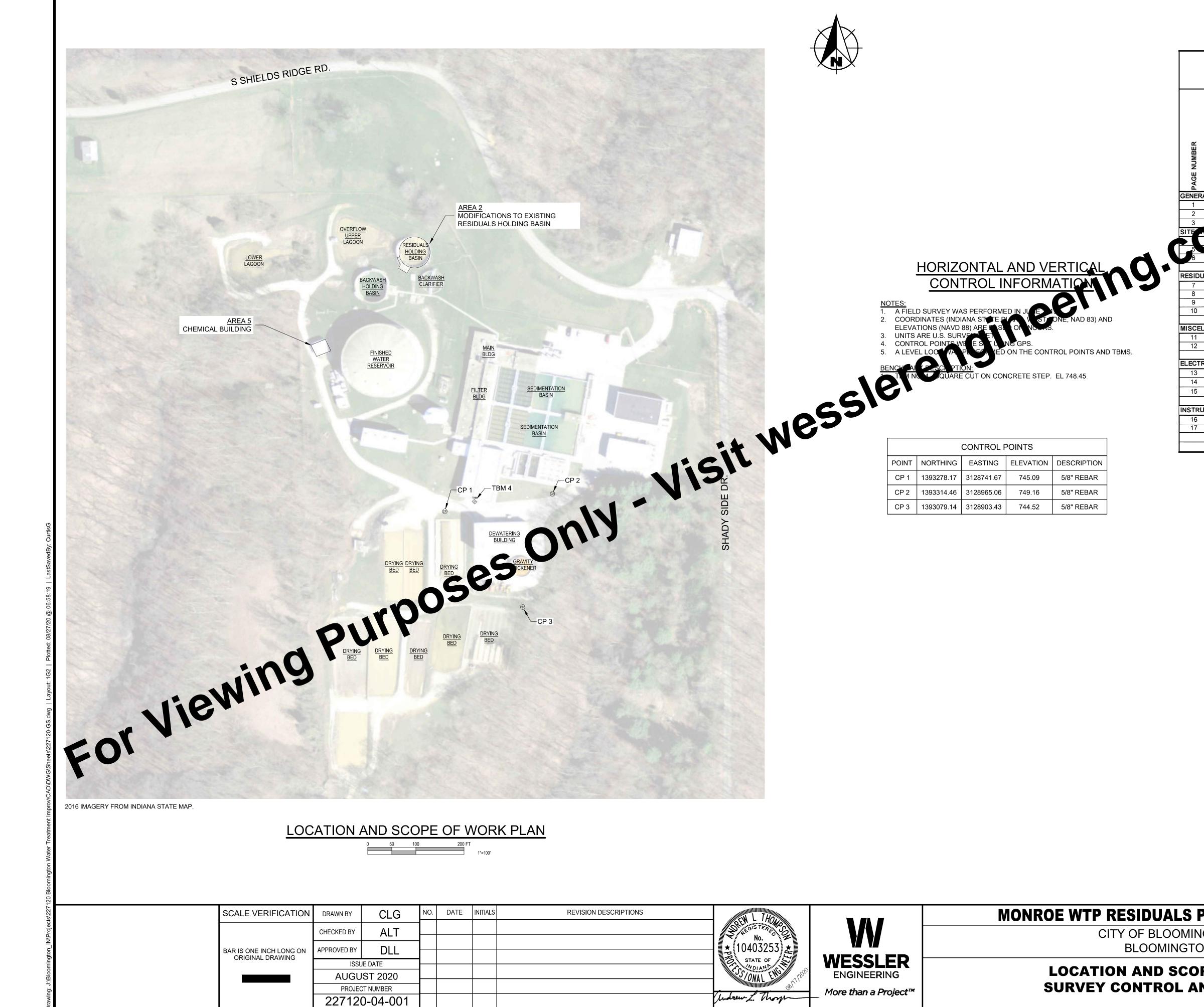
MONROE WATER TREATMENT PLANT RESIDUALS PUMPING IMPROVEMENTS nase FOR THE FOR THE CITY OF BLOOMINGTON UTILIE BLOOMINGTON, INDIANA Visit wessleren Purposes Only

DRAWINGS PREPARED FOR:

CITY OF BLOOMINGTON UTILITIES

AUGUST 2020

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► 10403253 ★ No. ★ 10403253 ★ No. ★ 10403253 ★	ANDREW L. THOMPSON REGISTERED ENGINEER STATE OF INDIANA NO. 10403253 COVERING CIVIL DESIGN
No. * 60860191 STATE OF NO. 000000000000000000000000000000000000	JEFFREY R. BALLARD REGISTERED ENGINEER STATE OF INDIANA NO. 60860191 COVERING STRUCTURAL DESIGN
No. * 10707476 STATE OF NO. * 10707476	WAYNE C. MOORE REGISTERED ENGINEER STATE OF INDIANA NO. 10707476 COVERING ELECTRICAL DESIGN AND INSTRUMENTATION AND CONTROL



MONROE WTP RESIDUALS PUMPING IMPROVEMENTS

CITY OF BLOOMINGTON UTILITIES **BLOOMINGTON, INDIANA**

LOCATION AND SCOPE OF WORK PLAN, **SURVEY CONTROL AND DRAWING INDEX**

					DRAWING INDEX
				BLOOMIN	IGTON, IN - MONROE WTP RESIDUALS PUMPING IMPROVEMENTS
	AREA	SHEET ТҮРЕ	NUMBER	HEET DESIGNATION	SHEET TYPE DEFINITIONS: G - GENERAL Y - SITE D - DEMOLITION A - ARCHITECTURAL C - CIVIL/PROCESS S - STRUCTURAL P - PLUMBING M - HYPEY INICHARICA. E - LECINICA I - INDEXIMENT ION AND CONTROL
RAL					TITLE SHEET
	1	G	1.0 2.0	1G2	LOCATION AND SCOPE OF WORK PLAN, SURVEY CONTROL AND DRAWING INDEX
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	3	D	1.0	3D1	RESIDUALS HOLDING BASIN - DEMOLITION PLAN AND SECTION
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RIC	CAL (AR				
	5	E	1.0	5E1	
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	6	N	2.0	6N2	PROCESS AND INSTRUMENTATION DIAGRAM LEGEND
					4



		EXISTIN	G FEATURES LEGE	TABLE OF ABBREVIATIONS					
YMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BM	BENCH MARK	CIS	CISTERN	· ·	EASEMENT - CONSTRUCTION/PERMANENT	AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ТВМ	TEMPORARY BENCH MARK	EM	ELECTRIC METER		LOT BOUNDARY	ALUM	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
SB 01	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT		PROPERTY BOUNDARY	APP	APPARENT		POUND(S)
• •	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		- RIGHT-OF-WAY - TEMPORARY/PERMANENT	APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
			, , ,			ASPH	ASPHALT	LN	LANE
•	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	XXX	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY	ASSOC ASTM	ASSOCIATES AMERICAN SOCIETY OF TESTING MATERIALS	LS MA EX	LIFT STATION MATCH EXISTING
(CP)	CONTROL POINT (SET/FOUND)	×	UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS	AVE	AVENUE		MECHANICAL JOINT
MG	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE	849	CONTOUR - INTERMEDIATE ELEVATION	AVG	AVERAGE	MATL	MATERIAL
BS	BOAT SPIKE (SET/FOUND)		LIGHT POLE	850	CONTOUR - INDEX ELEVATION	BLDG	BUILDING	MAX	MAXIMUM
PK	PK NAIL (SET/FOUND)	T.				BLVD BM	BOULEVARD BENCHMARK	MH	MANHOLE
			LIGHT ON POWER POLE	OHE OHE	OVERHEAD ELECTRIC	СО	CLEANOUT	MISC	MISCELLANEOUS
RS	RAILROAD SPIKE (SET/FOUND)	Ú.	LIGHT ON JOINT POLE	OHC OHC	OVERHEAD CABLE TV	CI	CAST IRON	N	NORTHING, NORTH
R/W	R/W MARKER - CONCRETE/GRANITE/STONE	P	POWER POLE	OHT OHT	OVERHEAD TELEPHONE	CL	CENTER LINE	NGS	NATIONAL GEODETIC SURVEY
0	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	T	TELEPHONE POLE	UGC UGC	UNDERGROUND CABLE TV	CMA CMP	COLD MIX ASPHALT CORRUGATED METAL PIPE	NO. OC	NUMBER ON CENTER
BP	BRASS PLUG	\square	LAMP POST	UGE UGE		CMU	CONCRETE MASONRY UNIT		OUTSIDE DIAMETER
						CONC	CONCRETE	PC	POINT OF CURVE (BEGIN CURVE
Ĉ	CABLE TV MANHOLE	\rightarrow	GUY ANCHOR	———— UGF ———— UGF ————		CONT	CONTINUOUS		POLYETHYLENE
	ELECTRIC MANHOLE	-0	GUY POLE OR STUB	G G G	- GAS MAIN	CNR			POINT OF INTERSECTION
G	GAS MANHOLE		CONTROLLER CABINET	DGDG	DIGESTER GAS	CP CPP	CONTROL POINT CORRUGATED PLASTIC PIPE	POT PT	POINT ON TANGE () POINT OF AN EN VE D'CURVE
0	OTHER MANHOLE	(FP)	FLAG POLE	P P P P	PETROLEUM MAIN	CR STN	CRUSHED STONE	PSI	PUND PL QUARE INCH
 T)	TELEPHONE MANHOLE	0	POST	UGT UGT	UNDERGROUND TELEPHONE	CYD	CUBIC YARD	PT	on r
						D	DEPTH	PVC O	POLYVINYL CHLORIDE
EL	TELEPHONE VAULT		GROUND LIGHT	W W W	WATER MAIN	DI DI MJ	DUCTILE IRON		RADIUS RIGHT-OF-WAY
)	TRAFFIC MANHOLE	M	MAILBOX	W W W	WATER SERVICE	DIMJ			REINFORCED CONCRETE PIPE
)	TRAFFIC HANDHOLE	MM	DOUBLE/MULTIPLE MAILBOX	FM FM	FORCEMAIN	DIA	DOUBLE DIAMETER		ROAD
0	WATER MANHOLE				GRAVITY SEWER PIPE	DIP	DUCTILE IRON (PE		SOUTH
	AIR RELEASE VALVE				PLANT CHLORINE PIPE	DIPS			STATE ROUTE
A)							L SN IG, EAST	SST SVA	STAINLESS STEEL SERVICE VALVE ASSEMBLY
)	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE		EACH FACE		SOIL BORING
D	DRAINAGE/STORM SEWER MANHOLE	\bigcirc	SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM		EACH WAY		SCHEDULE
0	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST	xxxx	FENCE - FIELD		EACH	SDR	STANDARD DIMENSION RATIO
ST	SEPTIC TANK		SIGN - DOUBLE POST	00000000	FENCE - METAL	EJ FI	EAST JORDAN IRON WORKS ELEVATION		SECTION SQUARE FEET
		R®R				EX	EXISTING	0.	SHEET
<u>></u>	VALVE VAULT	<u></u>	SIGN - RAILROAD SIGNAL			EXP	EXPANSION	SPECS	SPECIFICATION(S)
Ð	BEEHIVE INLET	<u></u>	SIGN - RAILROAD CROSSING		GUAF RA	FFE	FINISH FLOOR ELEVATION		SQUARE
	CURB INLET	\bigcirc	BUSH		AM	FM		SRF	STATE REVOLVING FUND
	DROP INLET	八	STUMP		TREE/BRUSH LINE	FND FT	FOUND	STA	STREET STATION
]	CATCH BASIN		TREE - CONIFEROUS	SCO		FTG	FOOTING	SYD	SQUARE YARD
)-		GALV	GALVANIZED	ТВМ	TEMPORARY BENCHMARK
)	DOWNSPOUT		TREE - DECIDUOUS	-		GPS	GLOBAL POSITIONING SYSTEM	TC	TOP OF CASTING
	GAS METER		ROMOUTERO			HMA HDPE	HOT MIX ASPHALT HIGH DENSITY POLYETHYLENE	TYP USGS	TYPICAL US GEOLOGICAL SURVEY
ev N	GAS VALVE	SA,	SATEL TE			HORIZ	HORIZONTAL	VERT	VERTICAL
$\hat{\boldsymbol{\rho}}$	GAS SERVICE VALVE	SPH		-		ID	INSIDE DIAMETER	VLV	VALVE
	PETROLEUM VALVE		WATER METER			IE		W	WIDTH, WEST
							INCORPORATED INDIANA DEPARTMENT OF	WSE	WATER SURFACE ELEVATION
s O	PETROLEUM SHUT FF VALV	\bowtie	WATER VALVE		n formon		TRANSPORTATION	YR	YEAR
GMW	GAS STATION FON ORIN WELL	<i>n</i> So	WATER SERVICE VALVE		luaiaoli	INSTR INV	INSTRUMENT INVERT		
	SAS TATION FILL CAP	(()	WATER WELL				A LISTING OF TYPICAL ABBREVIATIONS AND M		BREVIATIONS FOUND WITHIN TH
, (TURAL GAS WELL/STORAGE WELL	ww.	WET WELL	www.	now what's below .		TION ARISES ON THE MEANING OF AN ABBREVI		
/ \		_			Call before you dig.	LINGINEER FUR ULARI			
`	SPRINKLER HEAD	<i>*</i> %	FIRE 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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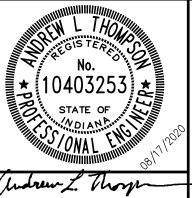


0 E MILLER DR OOMINGTON, IN 47401 12) 349-3632 TN: BRAD SCHROEDER

<u>AS</u> VECTREN (ENGINEERING) 1800 W 26TH ST MUNCIE, IN

(765) 287-2119 ATTN: JONATHAN EASTHAM VECTREN (CONSTRUCTION) 205 S MADISON BLOOMINGTON, IN (812) 330-4061 ATTN: EVAN HAMILTON

ESCRIPTIONS





MONROE WTP RESIDUALS PUMPING IMPROVEMENTS

CITY OF BLOOMINGTON UTILITIES BLOOMINGTON, INDIANA

LEGEND, GENERAL NOTES AND **UTILITY CONTACT INFORMATION**

TIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS SSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO AT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.

IY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE AWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY SPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.

E CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. PAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, BLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL ST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE VNER AND THE ENGINEER.

KE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR RELATE OR REPLACEMENT PAIR, OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES ALL CONSTRUCTION TRAFFIC NO ADDITIONAL COST TO THE OWNER.

TAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF DDITIONAL COST TO THE

MPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABL O THE OWNER WILL BE MADE AILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGEN ES WITHIN THE TIME PERIOD SPECIFIED BY THAT GENCY PRIOR TO BEGINNING CONSTRUCTION. GENCY PRIOR TO BEGINNING CONSTRUCTION. LL PRIVATE WELL LOCATIONS SHOWN ON THE DRAME IS TREX IPPOXIMATE. FIELD VERIFY AND DETERMINE EXACT LOCATIONS F ALL PRIVATE WELLS IN THE PROJECT AREA. LL EXISTING AND NEW UTILITY INFORMATION, INCLUMING BUY NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN

ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUNGOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THIS ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, ALL INCLUSIVE OR EVELAPIROX ATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) AT LEAST FORTY-EIGHT (48) HOURS CALCANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY. DETERMINE WHICH UTILITIES MAY COLED WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DEAL RM FE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE USCOVERED, NOTIFY THE NGLEER AS SOON AS POSSIBLE. XISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT INDERAROUTION SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED //PROCEMENTS.

ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM TO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.

DRDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES' AFFECTED TOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL FECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN VENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.

E CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC ID PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.

ACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING ALL BE AS DIRECTED BY THE GOVERNING UTILITY.

INTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT. NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.

L EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER R SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN E EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.

ORDINATE STAGING AREA LOCATIONS WITH THE OWNER. CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT

CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY D/OR AS DIRECTED BY THE OWNER.

ACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS. L EXISTING PIPING MAY NOT BE SHOWN. REFERENCE EXISTING RECORD DRAWINGS ON FILE WITH THE OWNER AND WESSLER GINEERING FOR ADDITIONAL INFORMATION OF EXISTING PIPING AND CONDUIT THROUGHOUT THE PLANT SITE. E WORK SHOWN ON THESE DRAWINGS IS OCCURRING ON A PLANT SITE IN WHICH BURIED ELECTRICAL CONDUIT AND SMALL PING MAY EXIST THROUGHOUT AND IN THE VICINITY OF THE PROJECT AND MAY NOT BE SHOWN ON THESE DRAWINGS. EXPECT ENCOUNTER BURIED ELECTRICAL AND COMMUNICATIONS WIRING, WITH OR WITHOUT CONDUIT, SMALL PIPING, AND FIELD TILE HILE DIGGING ON THIS SITE.

W PIPING CARRYING LIQUIDS SHALL HAVE MINIMUM COVER AS DEFINED IN THE MISCELLANEOUS SITE DETAILS, UNLESS ECIFIC ELEVATIONS ON THE DRAWINGS INDICATE OTHERWISE.

SPECT THE SITE PRIOR TO BIDDING TO UNDERSTAND THE EXTENT OF THE DEMOLITION WORK INVOLVED AND ADJUST BID

IMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN OR WILL BE TAKEN OUT OF SERVICE, IN CONFLICT TH THE NEW WORK. UNLESS OTHERWISE NOTED, ABANDON IN PLACE ALL UNDERGROUND PIPING NOT IN CONFLICT WITH THE W WORK. DO NOT LEAVE ABANDONED PIPING LIVE. SEE SPECIFICATION SECTION 02050 FOR DEMOLITION PROCEDURES. SEE ECIFICATION SECTION 01550 FOR PLANT OPERATIONS DURING CONSTRUCTION FOR COORDINATION OF DEMOLITION WORK AND W CONSTRUCTION.

L EQUIPMENT TO BE REMOVED THAT HAS ELECTRICAL COMPONENTS, CONDUIT AND WIRING, OR SMALL PIPING CONNECTED ALL HAVE THE ELECTRICAL COMPONENTS AND SMALL PIPING REMOVED BACK TO THE SOURCE.

UTILITY CONTACTS

ATER TY OF BLOOMINGTON UTILITIES

ELECTRIC DUKE ENERGY 1100 W 2ND ST BLOOMINGTON, IN 47403 (800) 521-2232 (812) 337-3033 ATTN: JACK URRUTIZ

TELEPHONE/FIBER/CABLE

AT&T DISTRIBUTION 4517 E INDIANA BELL CT **BLOOMINGTON, IN 47408** (812) 334-4629 ATTN: RUSS OWEN

COMCAST (812) 360-3090 ATTN: STEVE MCARTER

MCCSC 315 E. NORTH DRIVE BLOOMINGTON, IN 47401 (812) 330-7700

STREET MONROE HIGHWAY DEPARTMENT 501 N MORTON ST STE 216 BLOOMINGTON, IN 47404 (812) 349-2554 ATTN: PAUL SATTERLY



PAGE NO.

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AUGUST 2020

PROJECT NUMBER

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CITY OF BLOOMINGTON UTILITIES

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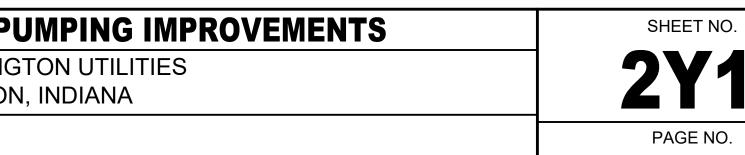
STATE OF

Indrew L. Thomps

BLOOMINGTON, INDIANA

EXISTING SITE PLAN





MINIMUM, VACUUM EXCAVATE THE PERIMETER OF THE STRUCTURE TO THE DEPTH OF THE STRUCTURE TO LOCATE ANY UTILITIES THAT CROSS THE WORK. 2. NOT ALL EXISTING PIPING IS SHOWN FOR CLARITY. SEE GENERAL NOTES 22 AND 23 ON SHEET 1G3.

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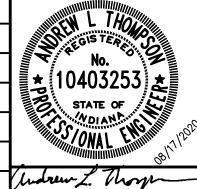


MONROE WTP RESIDUALS

CITY OF BLOOMIN BLOOMINGT

ENLARGED SITE PLAN



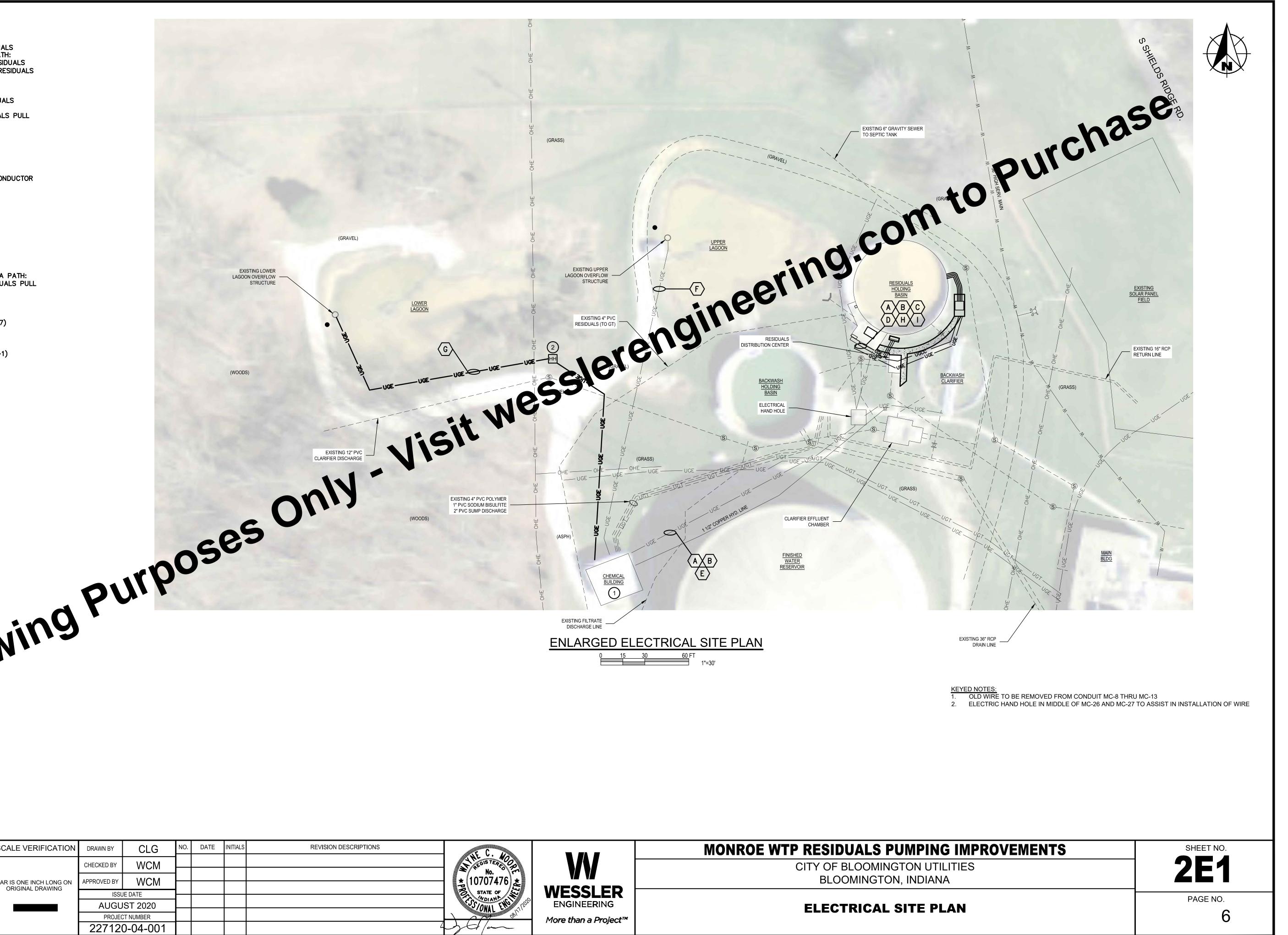


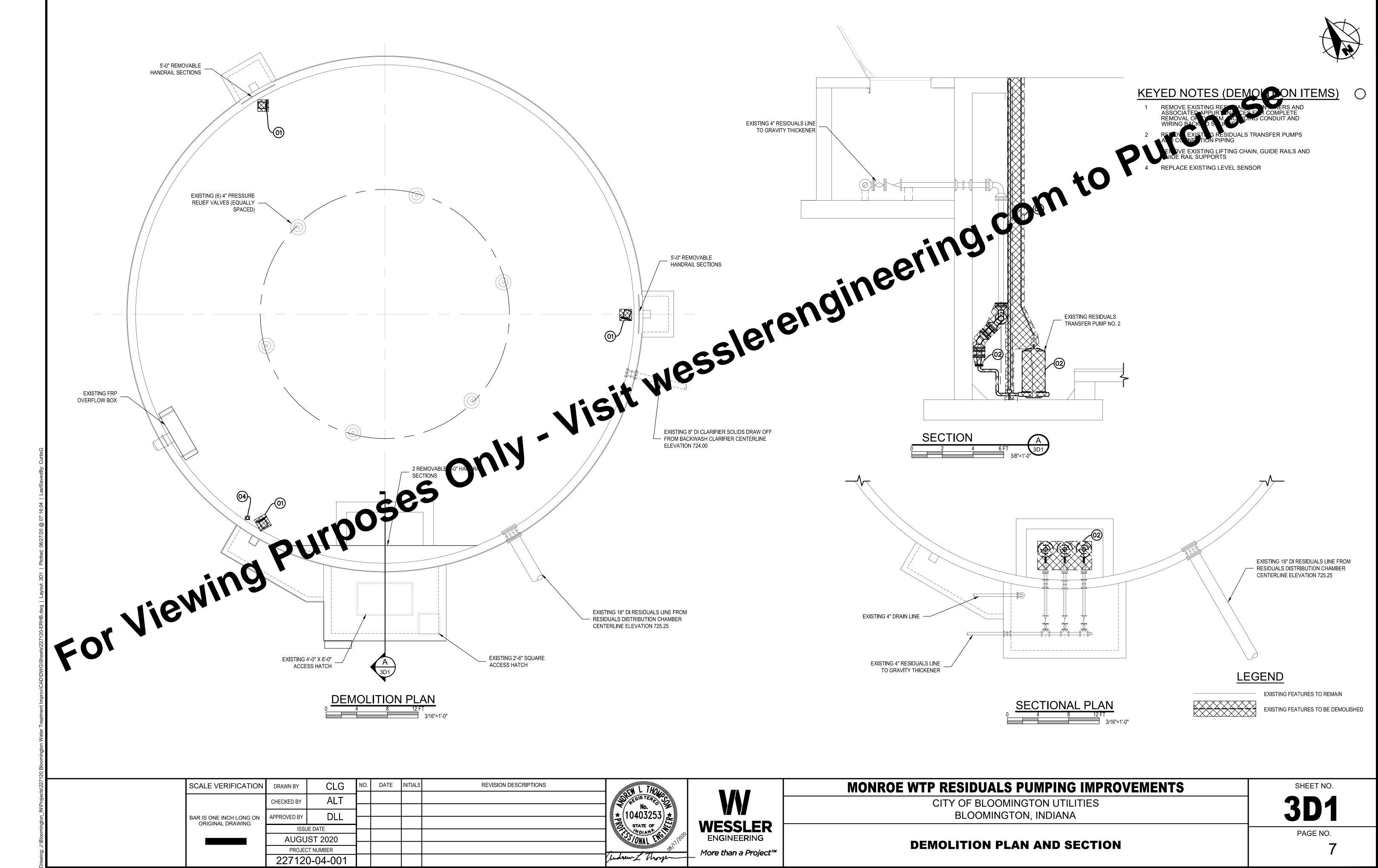


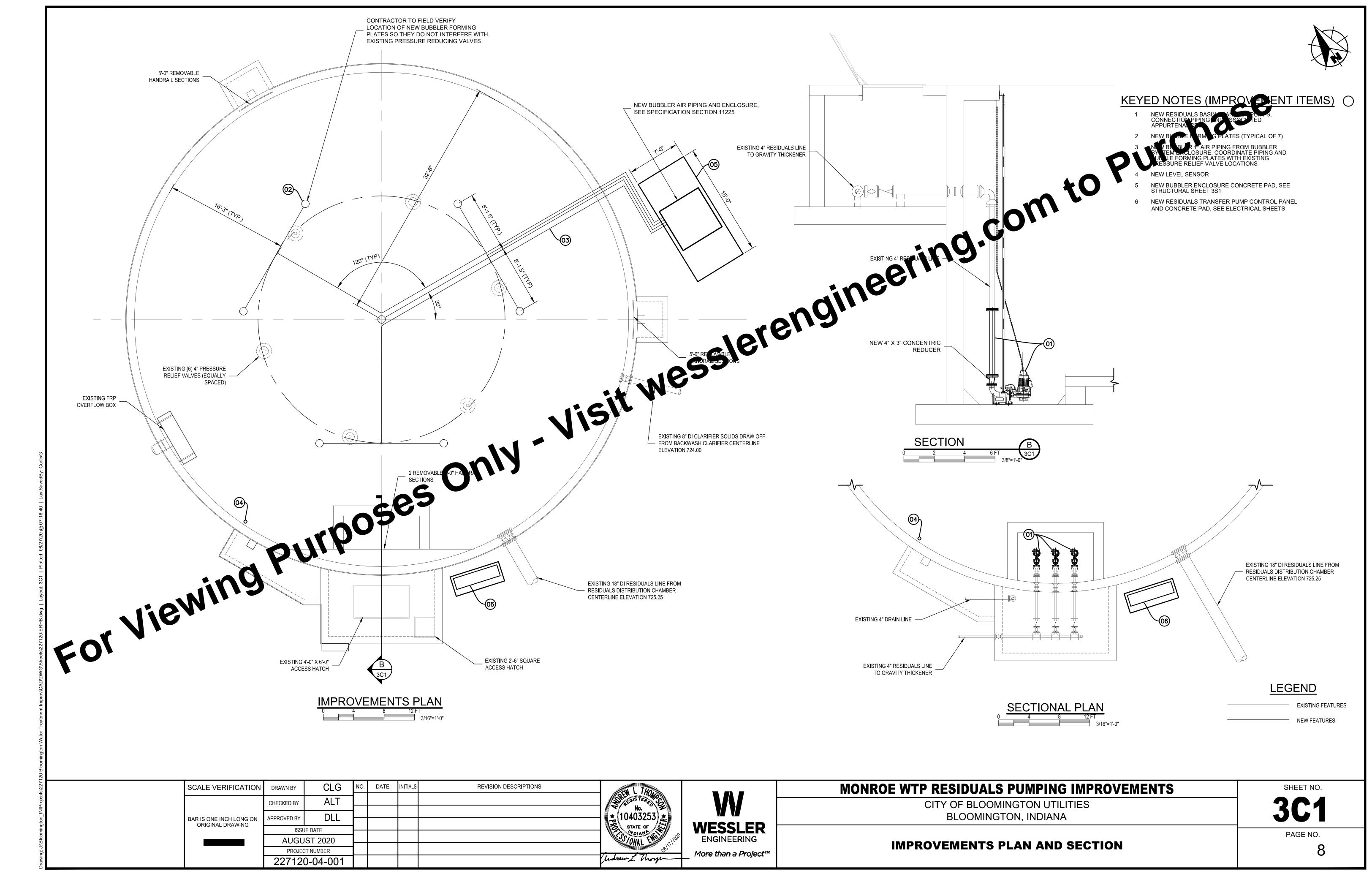
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INGTON UTILITIES FON, INDIANA	2Y2
	PAGE NO.
SITE PLAN	5

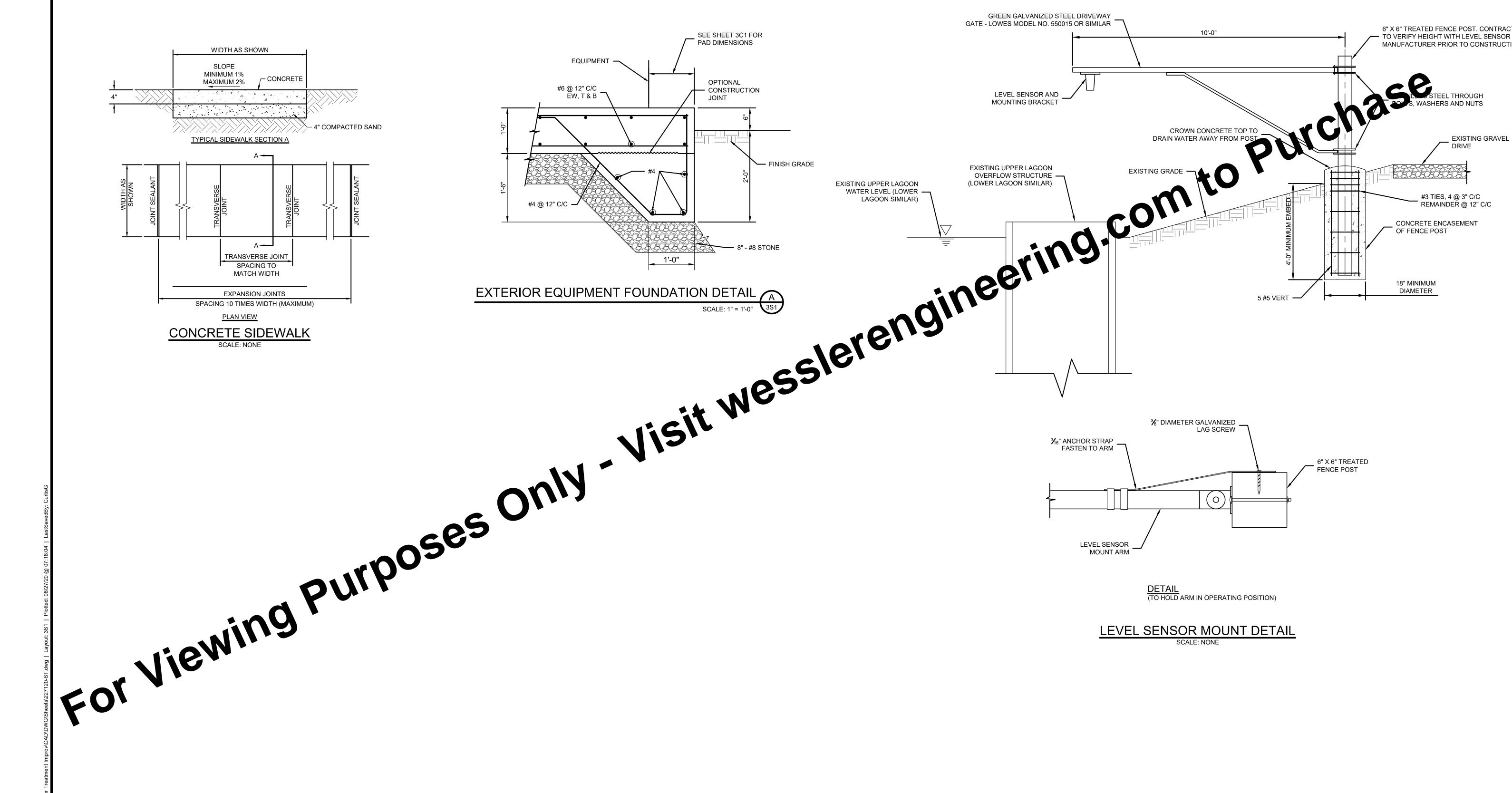
POWER CONDUIT AND WRE	
A FROM MCC CAB 6DL TO RESIDUALS	
TRANSFER PUMP PANEL VIA PATH: 6DL, EXISTING 2"C (MC-8), RESIDUALS	
PULL BOX, NEW 2"C (RTP–1), RESIDUALS TRANSFER PUMP PANEL	
NEW 3#8, #10G	
B FROM MCC CAB 6DR TO RESIDUALS MIXING PANEL VIA PATH:	
EXISTING 2"C (MC–11), RESIDUALS PULL BOX, NEW 2"C (RM–1)	
$\langle C \rangle$ NEW 2"C SPARE (RTP-3)	
$\langle D \rangle$ NEW 2"C SPARE (RM-2)	
$\langle E \rangle$ EXISTING 8 – 2"C SPARE	
EXISTING 1 – 2"C UNKNOWN CONDUCTOR	
$\langle F \rangle$ EXISTING 2"C, 3#4, #8G	
r = 2000 Existing 2 C, 377, 700	
$\langle G \rangle$ NEW 3/4"C SPARE (MC-26)	
L & C CONDUIT AND WIRE	
A NEW FIBER OPTIC CABLE FROM CP-CHEM TO CP-RTP VIA PATH:	
CP-CHEM, EXISTING 2"C, RESIDUALS PULL	
BOX, NEW 2"C (RTP-2)	
$\langle F \rangle$ EXISTING 2"C, NEW 2/C#16TPS	
$\langle G \rangle$ NEW 3/4"C, 2/C#16TPS (MC-27)	
$\langle H \rangle$ NEW 2"C SPARE (RTP-4)	
$\langle I \rangle$ NEW 1"C, CAT6 ETHERNET (RX-1) NEW 1"C, SPARE (RX-2)	
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SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS			MONROE WTP RESIDUALS P
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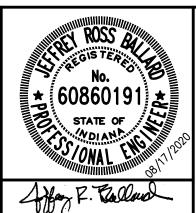
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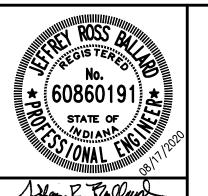


GREEN GALVANIZED STEEL DRIVEWAY

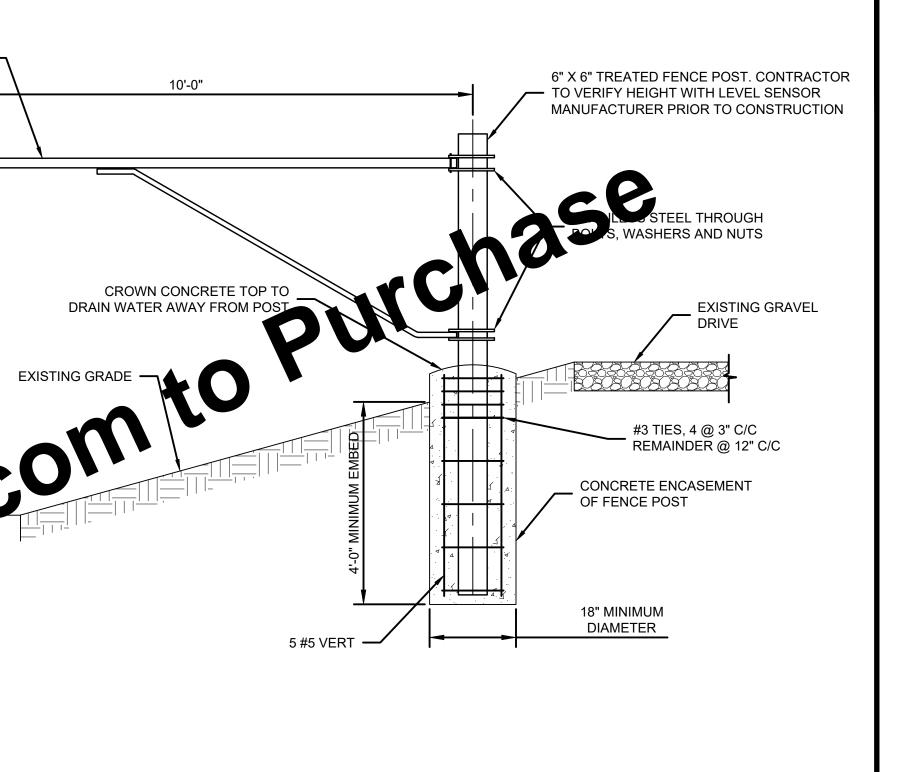
GATE - LOWES MODEL NO. 550015 OR SIMILAR

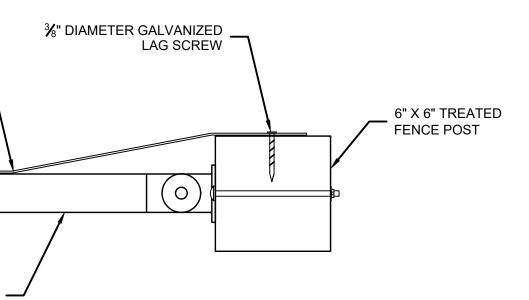


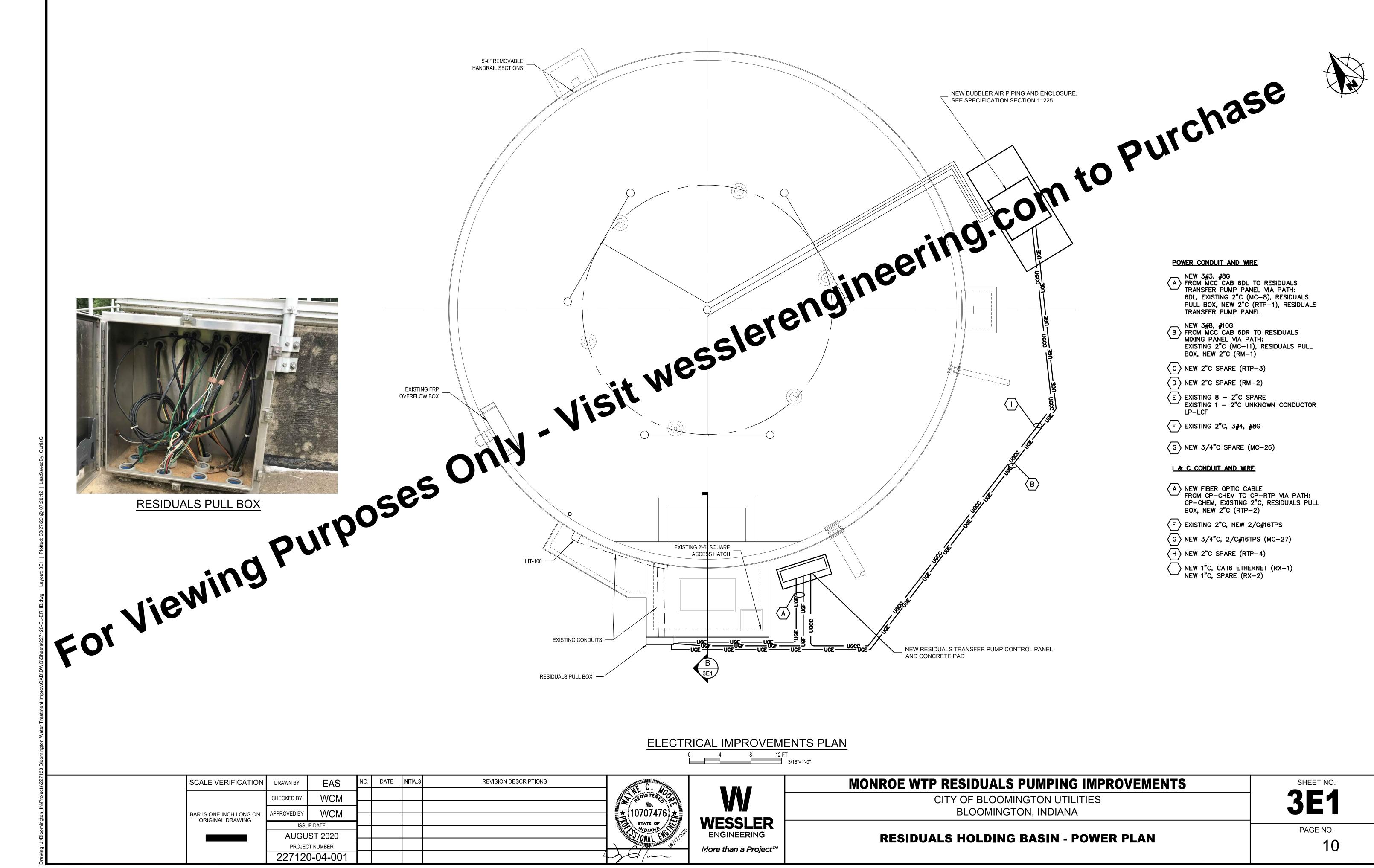




SEE SHEET 3C1 FOR



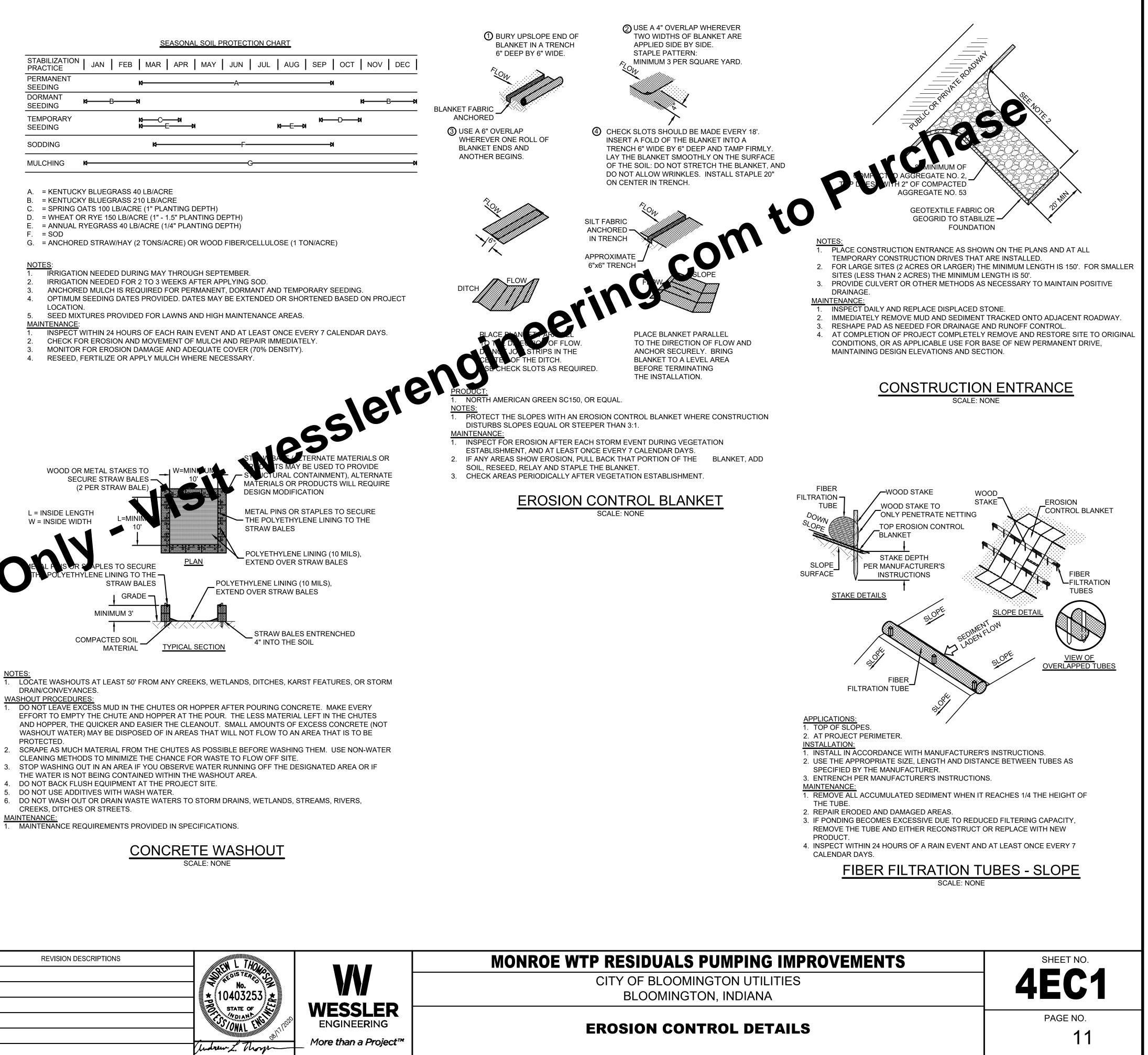


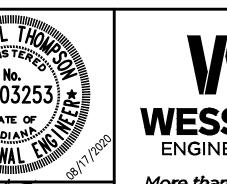


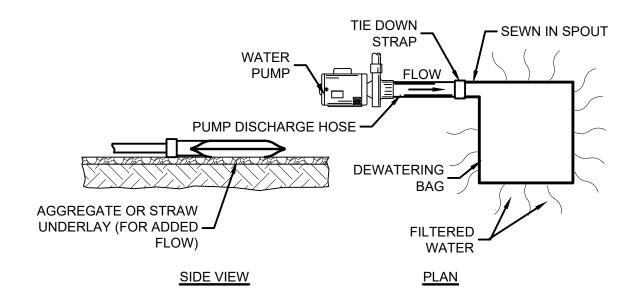


EROSION CONT	SCHEDULE CONSIDERATION	
NOTIFY IDEM RULE 5 COORDINATOR (317-233-1864) AND THE STORMWATER AUTHORITY WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION. POST THE CONTACT INFORMATION AT THE CONSTRUCTION ENTRANCE. INCLUDE A COPY OF THE NOTICE OF INTENT (NOI) AND THE ONSITE PERSON WHO IS RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHOULD BE ONSITE AND WEEKLY SITE INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST.	WITHIN 48 HOURS PRIOR TO STARTING CONSTRUCTION.	
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING.	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.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING.	
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, AND MARK TREES AND BUFFER AREAS FOR PRESERVATION.	
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.	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. A UNIFORM DENSITY OF 70% VEGETATED COVER IS REQUIRED.	
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Korviewin	gpur	<u>NC</u> 1. <u>W.</u> 1. 2. 3. 4. 5. 6.

SCALE VERIFICATION DRAWN BY CLG NO. DATE INITIALS REVISION DESCR
CHECKED BY ALT
BAR IS ONE INCH LONG ON APPROVED BY DLL
ORIGINAL DRAWING
ISSUE DATE
AUGUST 2020
PROJECT NUMBER
227120-04-001



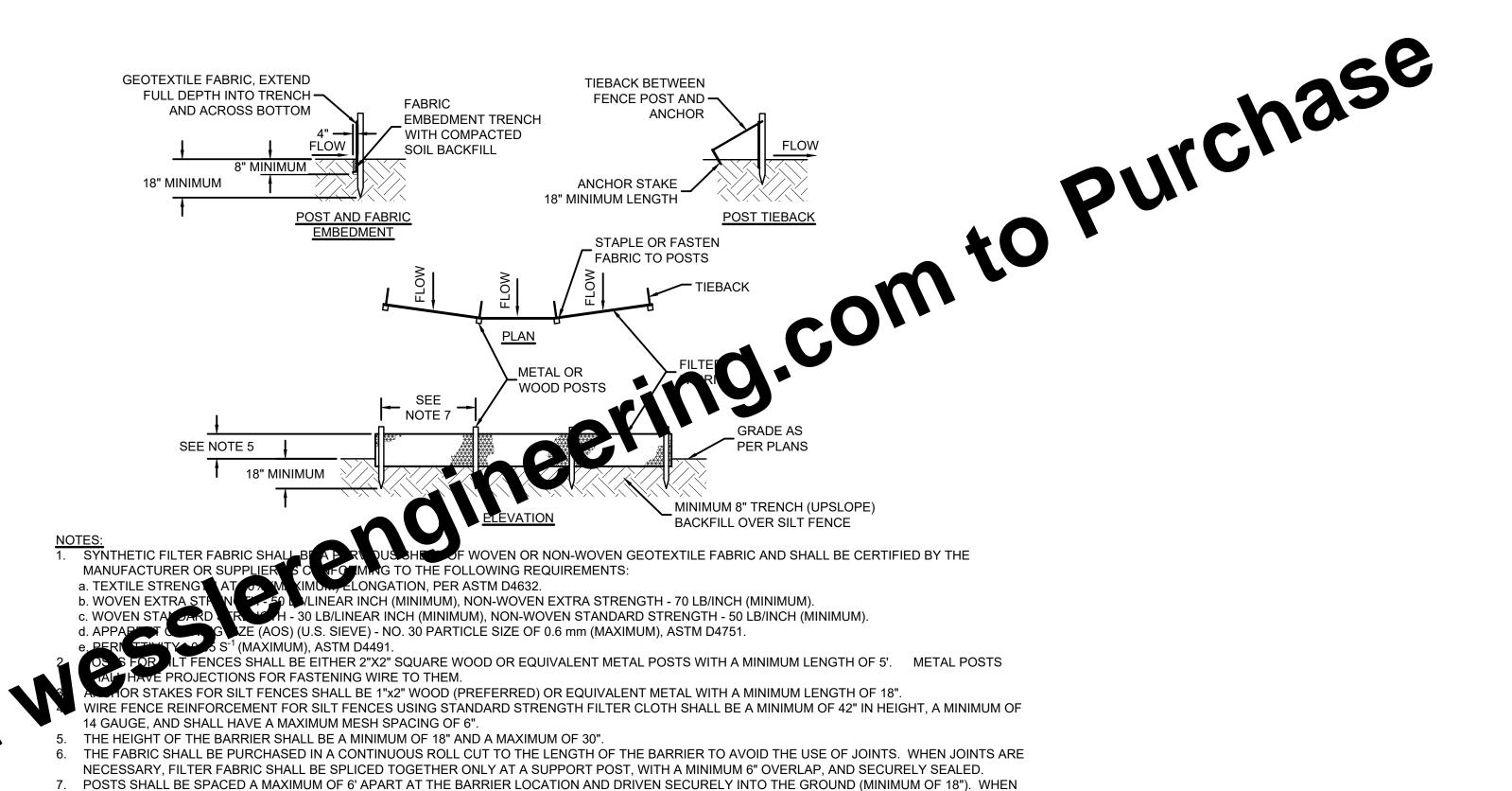




TEST METHOD	UNITS	INDUSTRY STANDARD
ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
ASTM D4632	%	50 X 50
ASTM D4833	kN (LB)	0.58 (130)
ASTM D3786	kPa (PSI)	2618 (380)
ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
ASTM D4355	%	70
ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
ASTM D4491	1/MIN/M ² (GAL/MIN/FT ²)	3866 (95)
ASTM D4491	S ⁻¹	1.2
	ASTM D4632 ASTM D4632 ASTM D4833 ASTM D3786 ASTM D4533 ASTM D4535 ASTM D4355 ASTM D4751 ASTM D4491	ASTM D4632kN (LB)ASTM D4632%ASTM D4833kN (LB)ASTM D3786kPa (PSI)ASTM D4533kN (LB)ASTM D4555%ASTM D4751Mm (US STD SIEVE)ASTM D44911/MIN/M² (GAL/MIN/FT²)

For Viewing Purposes Only - Visit v.

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	BAR IS ONE INCH LONG ON ORIGINAL DRAWING						
		ISSUE DATE					
		AUGUST 2020					
		PROJECT NUMBER					
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STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8'. SOILS.

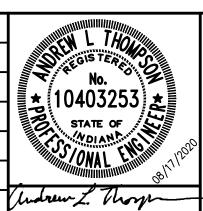
8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE 9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE

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: INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
- 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.



CRIPTIONS	





MONROE WTP RESIDUALS

CITY OF BLOOMI BLOOMINGT

EROSION CONTROL DETAILS

PUMPING IMPROVEMENTS	SHI
INGTON UTILITIES	
ΓΟΝ, INDIANA	



	<u>LIGHTING</u>					WIR	RING	
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AUGUST 2020

PROJECT NUMBER

227120-04-001

		SINGLE LINE EXISTING TO REMAIN					
		EXISTING TO BE DEMOLI	ISHED				
		NEW					
		FUTURE					
	TX-STRU(XXX kVA 480-120/2	CTURE DESIGNATION					
$\overset{\Delta}{_{K}} \overset{\smile}{_{K}}$		TRANSFORMER					
	3P/4W TYPE OF	TRANSFORMER					
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	Xr	THERMAL OVERLOAD RE	ELAY				
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480-120V (3)	}{	POTENTIAL TRANSFORM NUMBER DENOTES QUA	IER NTITY	nd			
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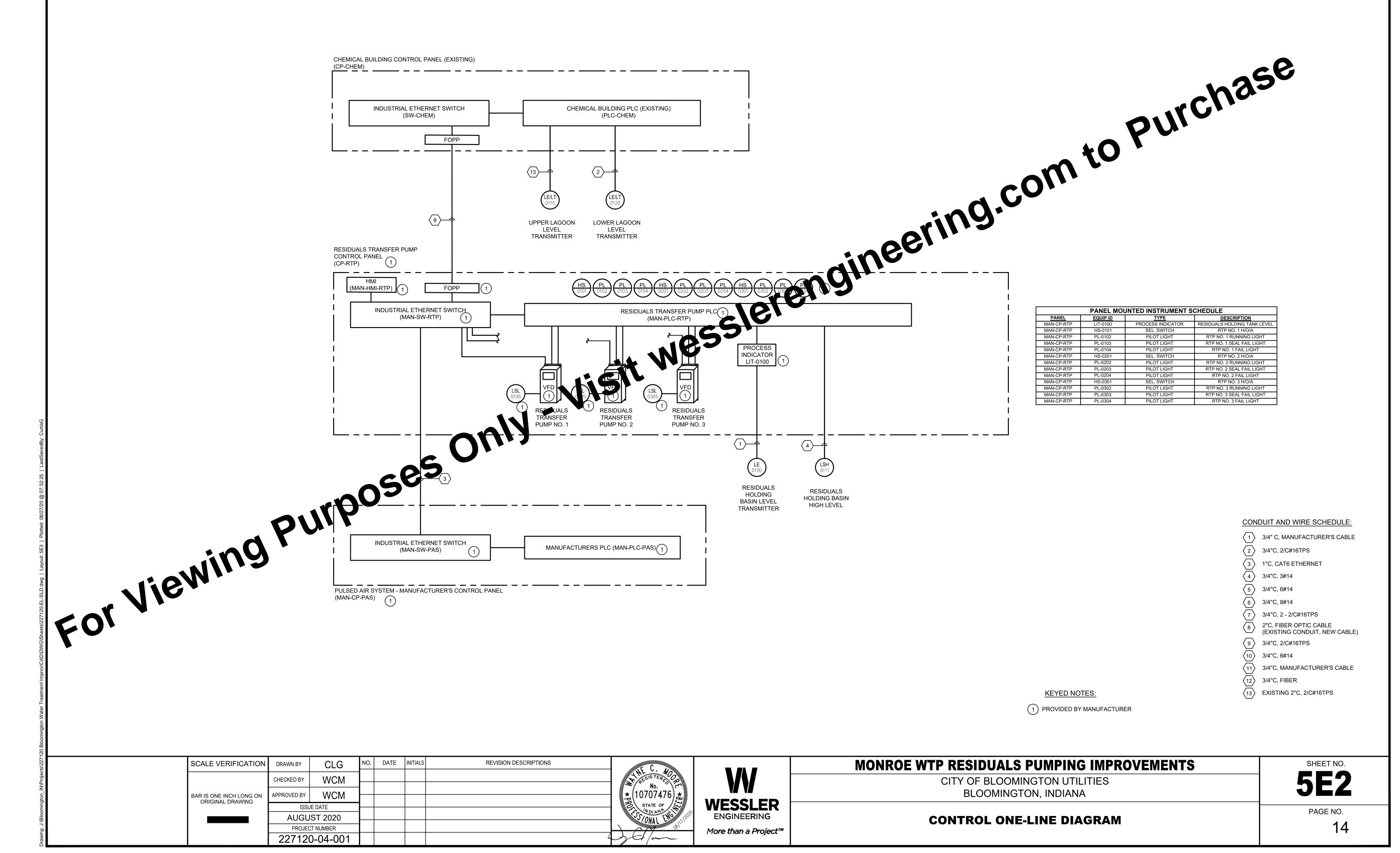
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	ABBREV	/IATIONS	3
А	AMPERE(S)	MAU	MAKEUP AIR UNIT
AE	ANALYTICAL SENSOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
AHU	AIR HANDLING UNIT	MOL	MOTOR OPERATED LOUVER
AIT	ANALYTICAL INDICATOR TRANSMITTER	Ν	NEUTRAL
AM	AMMETER	N/A	NOT APPLICABLE
AMP	AMPERE(S)	N.C.	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONA EL STRICAL CODE
AWG	AMERICAN WIRE GAUGE	NF	N METS.
BKR	BREAKER	N.O.	OPM LY CLOSED
BLDG	BUILDING	N	NOT TO SCALE
С	CONDUIT CIRCUIT BREAKER	OL	OVERLOAD
СВ		PB	PUSHBUTTON
СКТ	CIRCUIT	PLC	PROGRAMMABLE LOGIC CONTROLLER
CR	CORROSION RESISTANT	PM	POWER METER/MONITOR
CU	CC PE	PNL	PANEL
DISC	DISCHAECT	RCPT	RECEPTACLE
E	EXHAUST FAN	RGS	RIGID GALVANIZED STEEL
ELEV	ELEVATION	R/S	RING SWITCH
EMT	ELECTRICAL METALLIC TUBING	SF	SUPPLY FAN
EQUIP	EQUIPMENT	SHLD	SHIELDED
EWC	ELECTRICAL WATER COOLER	SP	SINGLE POLE
EXP	EXPLOSION PROOF	SPD	SURGE PROTECTIVE DEVICE
F	FUSED OR FUSE	SST	STAINLESS STEEL
FE	FLOW SENSOR	STR	STARTER
FIT	FLOW INDICATOR TRANSMITTER	SW	SWITCH
FLA	FULL LOAD AMPS	SWBD	SWITCHBOARD
G	GROUND	SWGR	SWITCHGEAR
GF	GROUND FAULT	ТВ	TERMINAL BOX
GFI	GROUND FAULT INTERRUPTER	TPS	TWISTED PAIR SHIELDED
HOA	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HOR	HAND-OFF-REMOTE	UGE	UNDERGROUND ELECTRICAL
HP	HORSEPOWER	UGT	UNDERGROUND SIGNAL
HPS	HIGH PRESSURE SODIUM	UH	UNIT HEATER
JB	JUNCTION BOX	UL	UNDERWRITERS LABORATORIES
KV	KILOVOLTS	UNO	UNLESS NOTED OTHERWISE
KVA	KILOVOLTS AMPS	V	VOLTS
KVAR	KILOVAR	VFD	VARIABLE FREQUENCY DRIVE
KW	KILOWATTS	VM	VOLTMETER
LCP	LOCAL CONTROL PANEL	VS	VOLTMETER SWITCH
LE	LEVEL SENSOR	W	WIRE/WATT
LIT	LEVEL INDICATING TRANSMITTER	WH	WATER HEATER
LOR	LOCAL-OFF-REMOTE	WP	WEATHERPROOF
LTG	LIGHTING	XFMR	TRANSFORMER

PUMPING IMPROVEMENTS	
NGTON UTILITIES	
ON, INDIANA	







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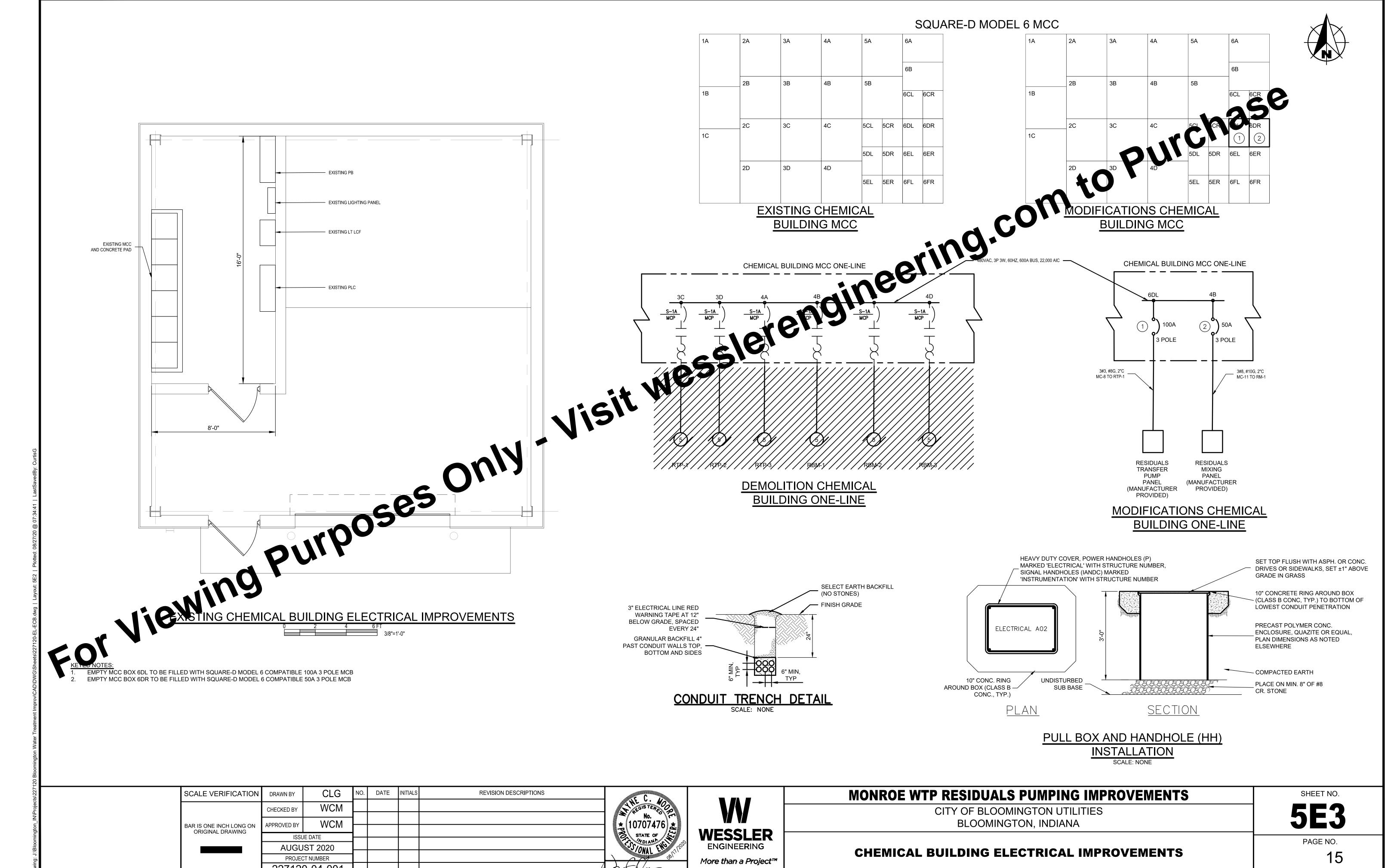
SHEET NO.

 $\langle 12 \rangle$ 3/4"C, FIBER

- 2"C, FIBER OPTIC CABLE (EXISTING CONDUIT, NEW CABLE)
- ⟨ 7 ⟩ 3/4"C, 2 2/C#16TPS

- (3) 1"C, CAT6 ETHERNET
- (1) 3/4" C, MANUFACTURER'S CABLE
- CONDUIT AND WIRE SCHEDULE:

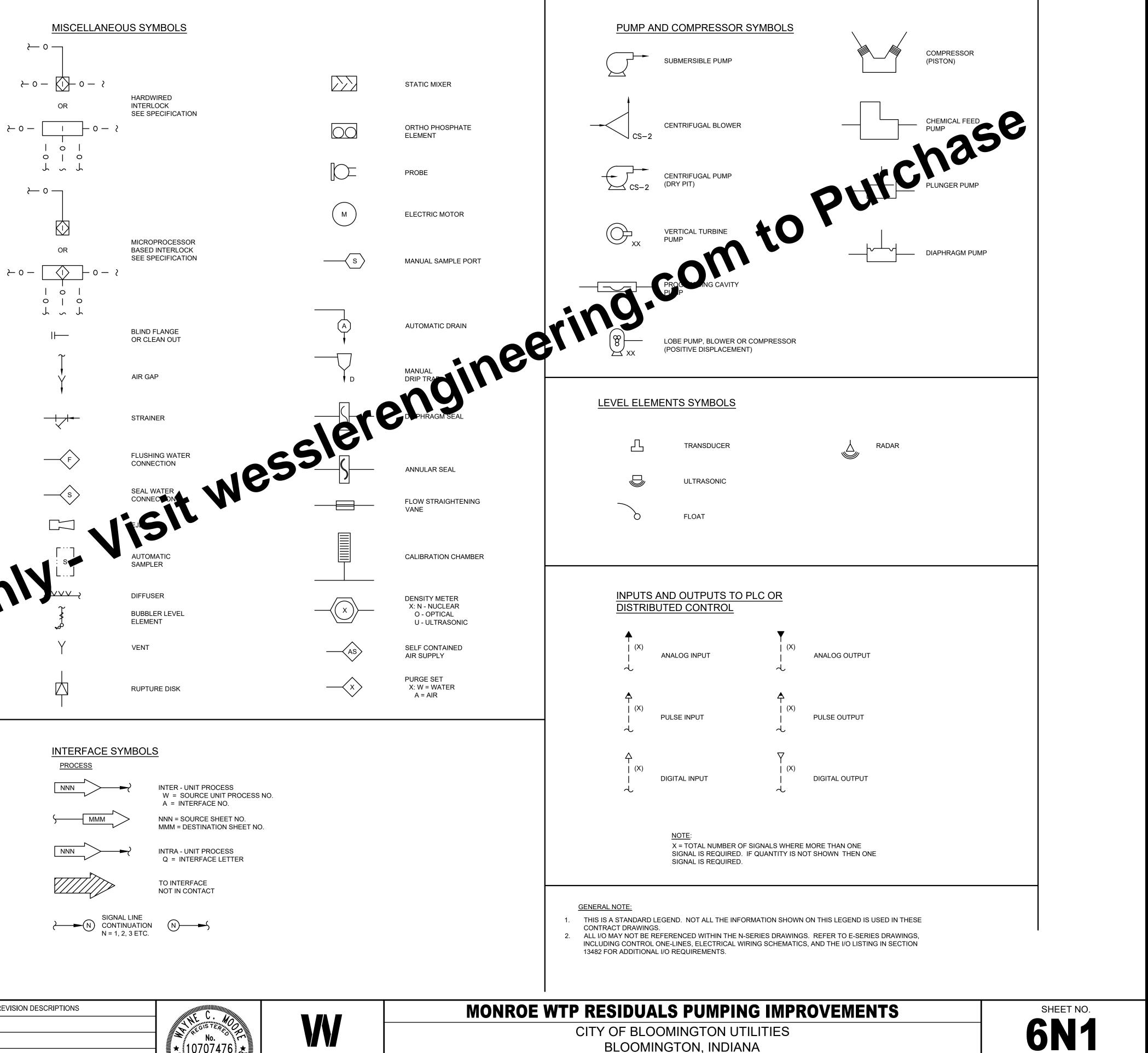
CLG DATE INITIALS SCALE VERIFICATION DRAWN BY WCM CHECKED BY WCM APPROVED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING ISSUE DATE AUGUST 2020 PROJECT NUMBER 227120-04-001







VALVE SYMBOLS	<u>8</u>								
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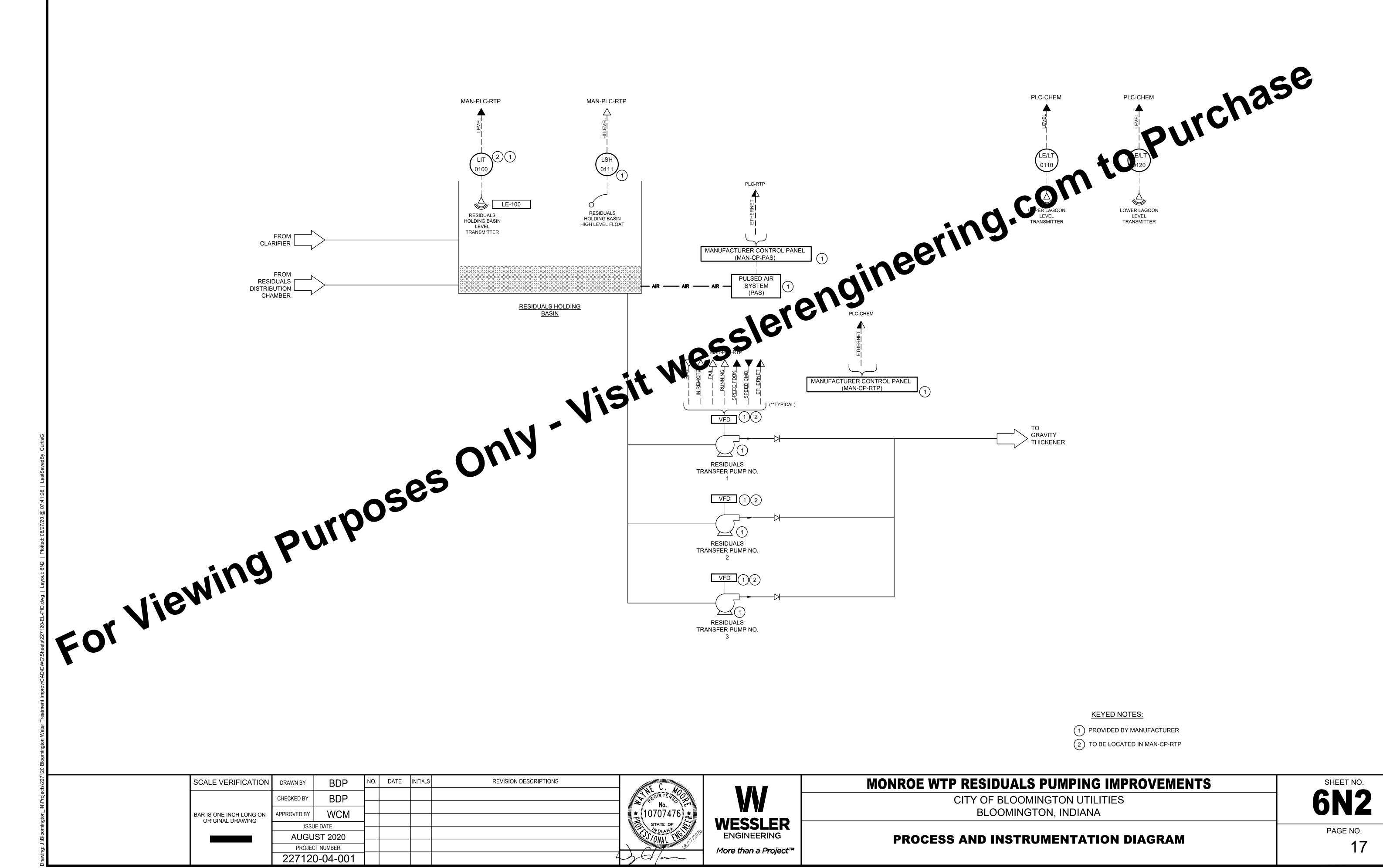


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WESSLER ENGINEERING More than a Project™

PAGE NO. 16





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1 PROVIDED BY MANUFACTURER (2) TO BE LOCATED IN MAN-CP-RTP

KEYED NOTES: