



FORMERLY PPL TELCOM LLC

ADDRESS: 1805 29TH STREET SUITE 2050

BOULDER, CO 80301

E-MAIL: GEORGE.HUSS@ZAYO.COM

BETHLEHEM, PA 18018

COMPANY: SERVICE ELECTRIC CABLE TV INC

BETHLEHEM, PA 18017

### **ACT 287 LIST OF UTILITIES**

COMPANY: ZAYO BANDWIDTH

CONTACT: GEORGE HUSS

CONTACT: ROBERT TAYLOR

ADDRESS: 2260 AVENUE A LVIP 1

CONTACT: RICH PERICH

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1996 FOR NOTIFICATION OF UTILITIES BEFORE EXCAVATION IN CONTRACT AREA. THE ONE UNDERGROUND UTILITIES LOCATION

COMPANY: EVERSTREAM ADDRESS: 111 S INDEPENDENCE MALL E SUITE 608 PHILADELPHIA, PA 19106 CONTACT: ROBERT HENNINGER

COMPANY: CENTURY LINK ADDRESS: 1025 ELDORADO BLVD CONTACT: CENTURY LINK OPERATOR PERSONNEL E-MAIL: RELOCATIONS@LUMEN.COM

COMPANY: VERIZON BUSINESS FORMERLY MC ADDRESS: 400 INTERNATIONAL PARKWAY RICHARDSON, TX 75081 CONTACT: DEAN BOYERS E-MAIL: INVESTIGATIONS@VERIZON.COM

COMPANY: PPL ELECTRIC UTILITIES CORP ADDRESS: 434 SUSQUEHANNA TRL CONTACT: DOUG HAUPT EMAIL:DLHAUPT@PPLWEB.COM

COMPANY: VERIZON PENNSYLVANIA LL ADDRESS: 1050 VIRGINIA DR FORT WASHINGTON, PA 19034 CONTACT: DARLINE LEPPERD JOHNSON

NORTHAMPTON, PA 18067 CONTACT: MIKE BOZILESKY COMPANY: UGI UTILITIES INC



CDC	Member Name	Response	Response Date	Initials
EVS	EVERSTREAM	DID NOT RESPOND THROUGH PA ONE CALL.	9/30/2021 0:04	
LKC	CENTURYLINK FORMERLY LEVEL 3	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION.	9/15/2021 21:15	AAA-WEBSVC
МІ	VERIZON BUSINESS FORMERLY MCI	DID NOT RESPOND THROUGH PA ONE CALL.	9/30/2021 0:04	
PID	PPL ELECTRIC UTILITIES CORPORATION	ENGINEERING COMPLETED. A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR.	9/30/2021 19:40	CLS-WEBSVC
PLL	ZAYO BANDWIDTH FORMERLY PPL TELCOM LLC	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION.	9/17/2021 10:09	SCL-WEBSVC
QX	BETHLEHEM CITY	FIELD MARKED.	9/20/2021 16:21	BG-WEB
SES	SERVICE ELECTRIC CABLE TV INC	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASED ON TICKET INFORMATION.	9/29/2021 22:58	CLS-WEBSVC
TCC	RCN TELECOM SERVICES INC	INSUFFICIENT INFORMATION. DO NOT DIG.	9/29/2021 22:58	CLS-WEBSVC
UJ	UGI UTL LEHIGH HAZLETON	DESIGN CONFLICT. PLEASE EMAIL OR SEND PLANS TO: TIMOTHY STEWARD UGI UTILITIES INC 2121 CITY LINE ROAD BETHLEHEM PA 18017 TSTEWARD@UGI.COM	9/15/2021 13:38	ATS-WEBSVC
ΥI	VERIZON PENNSYLVANIA LLC	CONFLICT. LINES NEARBY. DIRECT CONTACT TO	9/16/2021 11:17	AAA-WEBSVC

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### FINAL LAND DEVELOPMENT PLAN

# SHEETZ STORE #384 REBUILD

## 3201 SCHOENERSVILLE ROAD

CITY OF BETHLEHEM LEHIGH COUNTY, PENNSYLVANIA

### **PLAN PREPARERS**

WORMLEYSBURG | PA | 17043

717-497-3332 EMAIL ADDRESS: Terri@IntegratedDP.com

## INTEGRATED

### **APPLICANT**

SHEETZ, INC. 351 SHEETZ WAY CLAYSBURG, PA 16625

> TELEPHONE: 814-935-4798 EMAIL ADDRESS: BFRANKS@SHEETZ.COM

THE PURPOSE OF THIS PLAN IS TO PROPOSE THE REBUILD OF SHEETZ STORE #384 WITH ASSOCIATED IMPROVEMENTS

### **PLAN DATES**

ISSUE DATE: NOVEMBER 22, 202 REVISION DATE: APRIL 14, 2023

NOTE: ANY CHANGES TO A PREVIOUS PLAN SUBMISSION ARE FLAGGED WITH A TRIANGLE. FLAGGED CHANGES REFERENCE THE APPROPRIATE REVISION NUMBER AND DATE IN THE TITLE BLOCK.

### **GENERAL NOTES**

- 1. ALL CONSTRUCTION SHALL COMPLY WITH CITY OF BETHLEHEM STANDARDS AND SPECIFICATIONS, LEHIGH COUNTY STANDARDS AND SPECIFICATIONS, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, 2010 ADA STANDARDS, AND STATE BUILDING CODE IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY, ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL SITE AND BUILDING CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER AND ARCHITECT IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS, SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION
- 8. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY
- OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED. 4. ACCURATE AS-BUILT PLANS SHALL BE KEPT UP TO DATE DURING THE CONSTRUCTION PROCESS. AT THE COMPLETION OF THE PROJECT RECORD DRAWINGS SHALL BE DEVELOPED FROM THE AS-BUILT PLANS AND SUBMITTED TO THE CITY ENGINEER'S OFFICE. ALL FINAL DRAWINGS SHALL SHOW NORTH AMERICAN DATUM (NAD) 1983 STATE PLAN COORDINATES IN FEET (PA SOUTH FIPS ZONE 3702) AND THE DIGITAL FILE SHALL BE IN STATE PLAN FEET COORDINATES AS APPLICABLE. THE HARD COPY OF THE RECORD DRAWINGS SHALL BE IN THE FORM OF A MYLAR COPY. THE ENGINEER SHALL CERTIFY (I.E. P.E. STAMPED AND SIGNED) THAT THE RECORD DRAWINGS COMPLY SUBSTANTIALLY WITH THE APPROVED PLAN AND THAT THEY CONFORM TO INDUSTRY STANDARDS. ALL DIGITAL FILES SHALL RESIDE ON PC COMPATIBLE CD ROM CONTAINING THE DIGITAL REPRESENTATION OF THE FINAL PLAN AS PRESENTED ON THE TWENTY-FOUR (24) INCH BY THIRTY-SIX (36) INCH SHEETS. THE DIGITAL MAP SHALL BE AUTOCAD COMPATIBLE. ALL LAYERS INCLUDED IN THE DIGITAL MAPS SHALL BE STANDARDIZED LAYERS PREPARED AND UTILIZED BY THE CITY OF BETHLEHEM TO ENSURE COMPATIBILITY WITH THE CITY'S EXISTING CAD STANDARDS AND AS DESCRIBED IN APPENDIX A OF THE CITY'S SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.
- 5. THE DEVELOPER SHALL ENSURE THAT CURRENT AS-BUILT RECORDS ARE MAINTAINED DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, CERTIFIED (I.E. P.E. STAMPED) AS-BUILT DRAWINGS SHALL BE SUBMITTED BY THE DEVELOPER'S ENGINEERS. THESE AS-BUILT DRAWINGS SHALL BE FOUND ACCEPTABLE BY THE CITY ENGINEER PRIOR TO RELEASE OF ANY REMAINING SECURITY.
- 6. THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS. 7. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL OR COUNTY OR STATE RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PA PENNSYLVANIA811 72 HOURS BEFORE COMMENCEMENT OF WORK AT PA (800) 242-1776 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON
- OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA. 8. IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST STRINGENT SHALL APPLY.
- ).  $\,$  ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT. 10. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.

PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING

- NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM LEHIGH COUNTY AND CITY OF BETHLEHEM ALL CONSTRUCTION PERMITS. INCLUDING ANY PENNDOT PERMITS, SEWER AND WATER CONNECTION PERMITS, AND ROADWAY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK
- 13. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS. SWALE. PAVEMENT MARKINGS, OR SIGNAGE DISTURBED DURING DEMOLITION AND/OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER, AND TO THE SATISFACTION OF THE OWNER AND CITY OF BETHLEHEM.
- 14. THE SITE IS CURRENTLY SERVICED BY PUBLIC WATER AND PUBLIC SEWER. 15. NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.
- 16. THERE ARE NO WETLANDS LOCATED ON THE SITE
- 17. PRIOR TO ANY WORK WITHIN THE RIGHT-OF-WAY, PERMITS MUST BE OBTAINED FROM THE CITY ENGINEERING OFFICE. NO IMPROVEMENTS ARE PROPOSED WITHIN A PENNDOT RIGHT OF WAY. 18. LVPC REVIEWS ALL SITE PLANS THAT IT IS REQUIRED TO SIGN PRIOR TO BEING RECORDED IN THE COURTHOUSE OF LEHIGH COUNTY, REGARDLESS OF
- THE SIZE OF THE SITE OR THE NET AMOUNT OF IMPERVIOUS SURFACES. THE LVPC IS REQUIRED TO REVIEW THIS STORMWATER MANAGEMENT PLAN (PER S. W. DESALVA 09-19-06).
- 19. AN INDIVIDUAL NPDES PERMÍT THROUGH THE LEHIGH COUNTY CONSERVATION DISTRICT WILL BE SECURED FOR THE PROJECT. 20. NO ADDITIONAL SEWAGE CAPACITY IS BEING REQUESTED FOR THE REBUILD.
- 21. BY SUBMISSION OF THESE PLANS THE ENGINEER ON RECORD CERTIFIES THAT THESE PLANS ARE IN COMPLETE CONFORMANCE WITH THE CITY OF BETHLEHEM STORMWATER MANAGEMENT ORDINANCE. (PER S. W. DESALVA 9-19-06) 22. THE MAINTENANCE OF THE STORMWATER FACILITIES SHALL BE THE OWNER'S RESPONSIBILITY. THE OWNER'S DEED, AND THE DEEDS TO ANY SUBSEQUENT OWNER, SHALL NOTE THAT THE OWNER SHALL ACCEPT THE MAINTENANCE RESPONSIBILITIES. THE CITY OF BETHLEHEM SHALL BE
- PERFORMED IN A TIMELY MANNER 23. IN ORDER TO MAINTAIN CONTINUITY BETWEEN PLAN REVISIONS, ANY CHANGES TO A PREVIOUS PLAN SUBMISSION SHALL BE FLAGGED WITH A TRIANGLE ANY CHANGES NOT FLAGGED MAY BE CONSIDERED NOT APPROVED. FLAGGED CHANGES SHALL BE REFERENCED TO THE APPROPRIATE REVISION DATE 24. BY SUBMISSION OF THESE PLANS THE ENGINEER ON RECORD CERTIFIED THAT THESE PLANS ARE IN COMPLETE CONFORMANCE WITH THE CITY OF

PERMITTED TO INSPECT THE STORMWATER FACILITIES ON AT LEAST AN ANNUAL SCHEDULE TO ENSURE THAT ANY NECESSARY CORRECTIVE WORK IS

BETHLEHEM STORMWATER MANAGEMENT ORDINANCE. 25. THE PROPOSED BUILDING IS NOT PROPOSED NOR REQUIRED TO BE SPRINKLERED.

### LAND SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CORRECTLY AND ACCURATELY REPRESENTS THE LANDS OF THE OWNER AND. WHERE APPLICABLE. THE LOTS. BUILDINGS, STREETS, PARKING AREAS, WALKWAYS AND OTHER STRUCTURES AND IMPROVEMENTS SHOWN THEREON.

PROFESSIONAL LAND SURVEYOR

### **CIVIL ENGINEER'S CERTIFICATION**

HEREBY CERTIFY THAT THIS PLAN CORRECTLY AND ACCURATELY REPRESENTS THE LANDS OF THE OWNER AND, WHERE APPLICABLE, THE LOTS,





### **AREA AND BULK REGULATIONS**

LOCATION: 3201 SCHOENERSVILLE ROAD, BETHLEHEM, PENNSYLVANIA

ZONE: CS -	SHOPPING CENTER DISTRICT			
USE: GAS	STATION, CONVENIENCE STORE, CAR WASH	I AND RESTAURAN	(PERMITTED USES)	
#	ITEM	SECTION	REQUIREMENTS	PROPOSED
1	MINIMUM LOT SIZE	§1306.01.(b)	2 ACRES	2.22 ACRES
2	MINIMUM FRONT YARD SETBACK	§1306.01.(b)	40 FT	94 FT (BLDG) 182 FT (CAR WASH)
3	MINIMUM REAR YARD SETBACK	§1306.01.(b)	25 FT	64 FT (BLDG) 25 FT (CAR WASH)
4	MINIMUM SIDE YARD SETBACK	§1306.01.(b)	25 FT, EXCEPT 40 FT IF ADJACENT TO A STREET	151 FT (BLDG) 140 FT (CAR WASH)
5	MINIMUM CANOPY SETBACK	§1322.03.(v)(3)	20 FT FROM STREET/ALLEY R.O.W. LINE	51 FT
6	MINIMUM FUEL DISPENSER SETBACK	§1322.03.(v)(4)	30 FT FROM STREET/ALLEY R.O.W LINE AND ANY RESIDENTIAL LOT LINE	61 FT
7	MINIMUM LOT WIDTH	§1306.01.(b)	300 FT	429 FT
8	MAXIMUM IMPERVIOUS COVERAGE	§1306.01.(b)	90%	EXISTING: 78.8% (1.75 ACRES) PROPOSED: 72.7% (1.60 ACRES)
9	MAXIMUM BUILDING COVERAGE	§1306.01.(b)	40%	7.3% (0.16 ACRES)
10	MAXIMUM BUILDING HEIGHT	§1306.01.(b)	80 FT	26 FT (H.P. CUPOLA) 21.25 FT (ROOF SCREEN)
11	MAXIMUM CANOPY HEIGHT	§1322.03.(v)(5)	20 FT (GROUND TO TOP OF CANOPY) EXCEPT PORTIONS OF THE CANOPY THAT ARE SLOPED TO DIRECT LIGHT AWAY FROM STREETS AND DWELLINGS	21.62 FT (CANOPY)
12	MINIMUM AISLE WIDTH (TWO-WAY)	§1319.03.(a)(4)	24 FT	27.5 FT
13	ACCESSORY BUILDING HEIGHT	§1306.02.(b)	25 FT, UNLESS IT MEETS MINIMUM SETBACK REQUIREMENTS, IN WHICH CASE 80 FT SHALL APPLY	25 FT OR LESS

### PARKING REQUIREMENTS

#	ITEM	SECTION	REQUIREMENTS	PROPOSED
1	MINIMUM OFF-STREET PARKING FOR INDOOR RETAIL BUSINESS OTHER THAN A SHOPPING CENTER	§1319	4 SPACES / 1,000 SF OF GROSS FLOOR AREA (4,810 SF OF GROSS FLOOR AREA*) = 20 SPACES	
2	MINIMUM OFF-STREET PARKING FOR RESTAURANTS	§1319	1 SPACE / 2 EMPLOYEES + 1 SPACE / 4 SEATS FOR CUSTOMERS = 1 SPACE x (7 EMPLOYEES / 2) = 5 + 1 SPACE x (46 SEATS / 4) = 12 = 17 SPACES TOTAL	39 SPACES
3	MINIMUM ADA SPACES	§1319.02.(n)(1)	26 TO 50 SPACES = 2 ADA SPACES, 1 OF WHICH MUST BE VAN-ACCESSIBLE	3 ADA SPACES, 2 OF WHICH ARE VAN-ACCESSIBLE
4	MINIMUM BICYCLE PARKING	§1319.02.(o)	5% OF THE OFF-STREET VEHICLE PARKING REQ. WITH A MIN. OF 2 SPACES IN ANY EVENT (2 REQ'D.)	3 BICYCLE PARKING SPACES
5	MINIMUM OFF-STREET LOADING	§1319.04	11 FT X 35 FT SPACE	11 FT X 35 FT SPACE

& ACKNOWLEDGEMENT OF PLAN

**LOCATION MAP** 

, BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND SAY THAT I (WE) NO SUITS OR LIENS PENDING AFFECTING THE TITEL THEREO

SWORN AND SUBSCRIBED TO BEFORE ME THIS DAY OF	00
	, 20
ATTEST:	

### **CITY PLANNING COMMISSION**

**CERTIFICATION OF OWNERSHIP** 

RECOMMENDED FOR APPROVAL BY THE CITY PLANNING COMMISSION THIS

### **CITY ENGINEER**

CITY ENGINEER

REVIEWED BY CITY OF BETHLEHEM ENGINEER THIS

CERTIFICATION OF THE LEHIGH
VALLEY PLANNING COMMISSION

PLANNER

### **RECORDER OF DEEDS**

RECORDER OF DEEDS

PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF LEHIG	H COUNTY,
PENNSYLVANIA, IN DOCKET ID	, ON THE
DAY OF, 20	
WITNESS MY HAND AND SEAL OF OFFICE THIS DAY OF	
, 20	
WITHER	
WITNESS	

FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION

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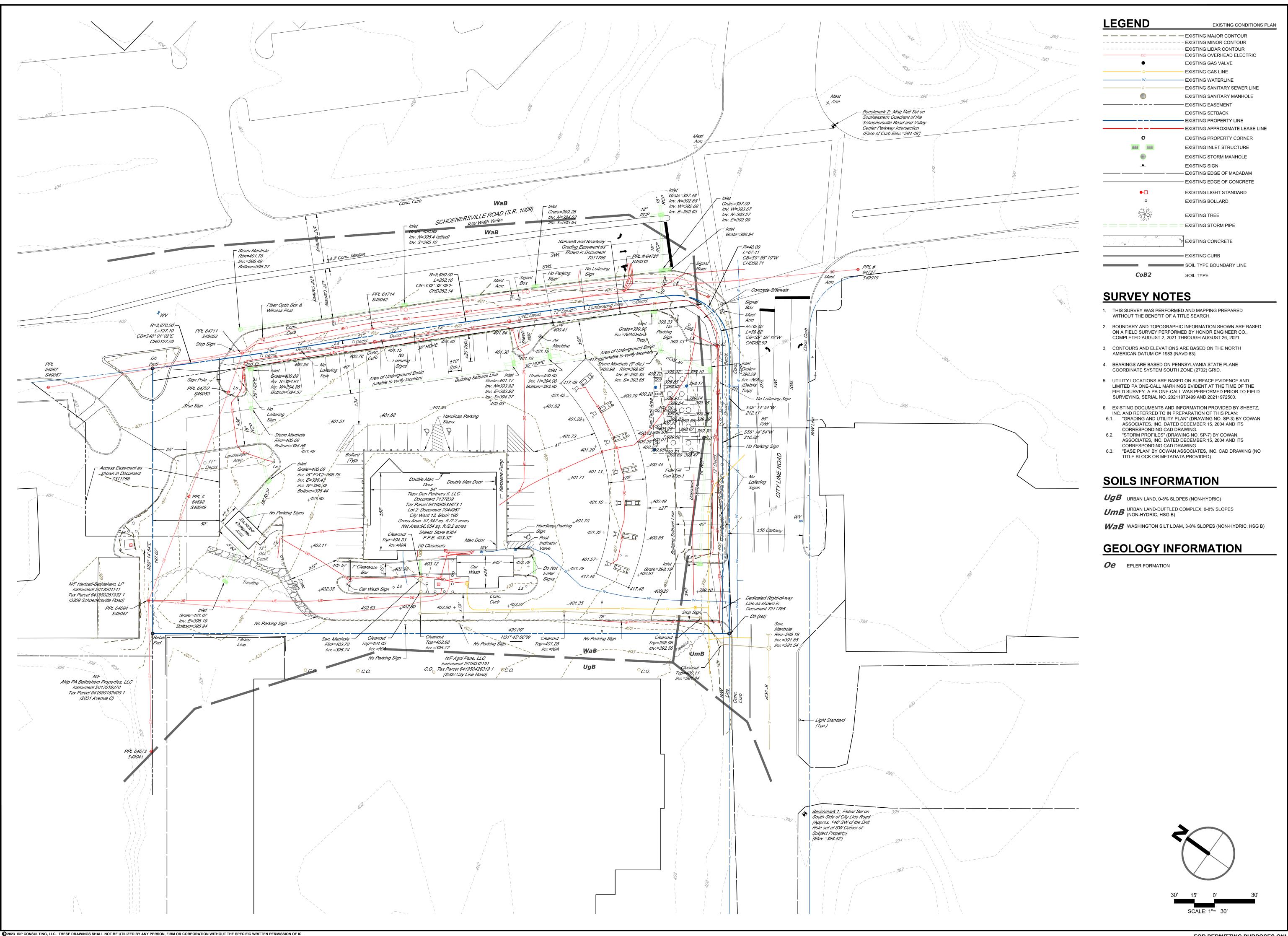
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AT
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CITY OF BETHLEHE

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REVIEWED JLK

SCALE AS NOTED

DATE 11/22/2022

PROJECT NO. 21-0171

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02 - EXISTING CONDITIONS

4/2023 REVISED PER EAC, LVPC & CITY REVIEWS

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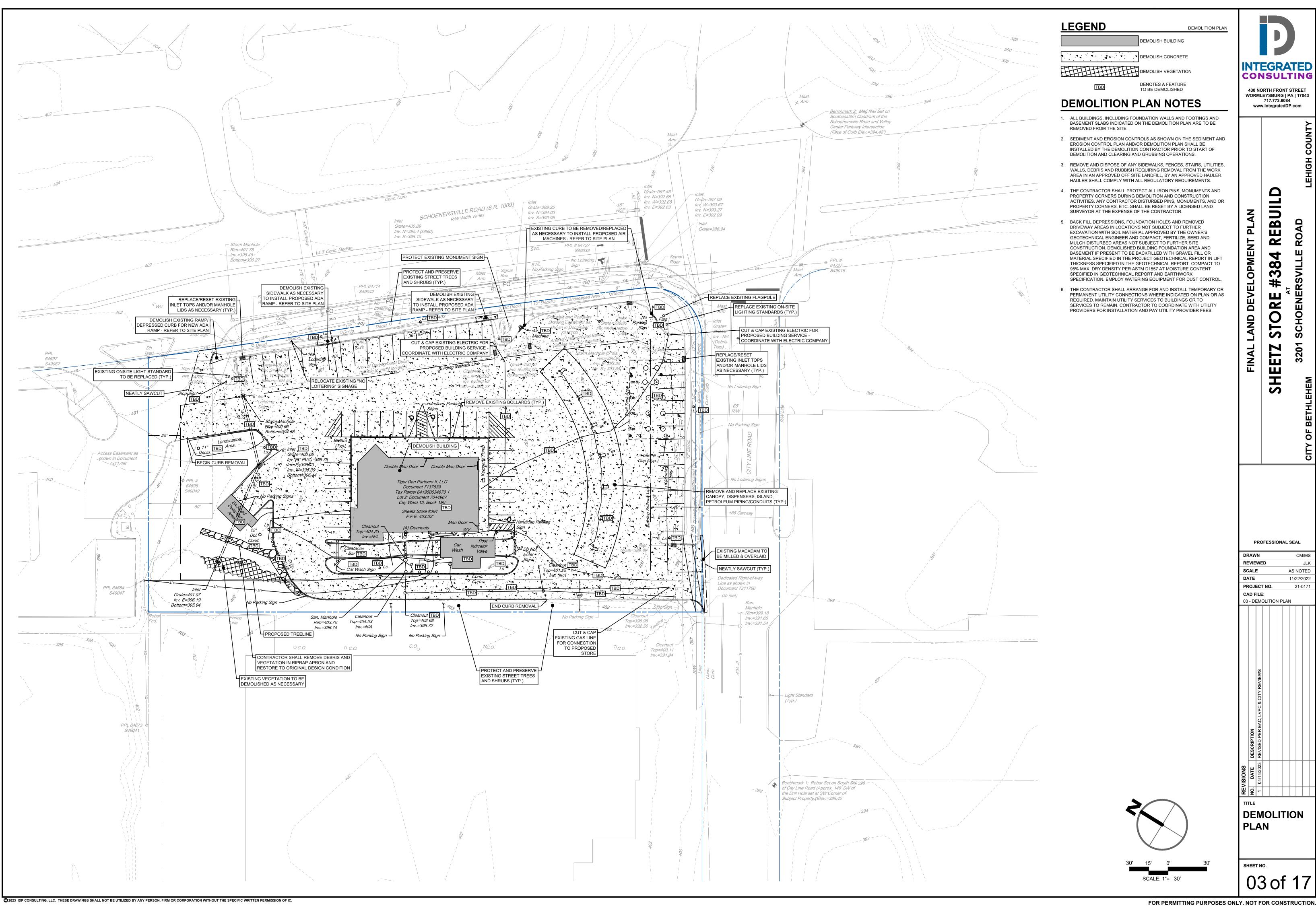
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PLAN

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### SITE PLAN NOTES

- THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- 2. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, RAISED CONCRETE SIDEWALKS, LANDINGS, RAMPS, AND
- ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- 4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS AS REQUIRED BY THE OWNER, ENGINEER OR LOCAL GOVERNING AUTHORITIES.
- 5. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
- THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- 7. PAVEMENT MARKING KEY:
- 4" SYDL 4" SOLID YELLOW DOUBLE LINE 4" SYL 4" SOLID YELLOW LINE 4" SWL 4" SOLID WHITE LINE
- 12" SWSB 12" SOLID WHITE STOP BAR
- 4" BWL 4" BROKEN WHITE LINE 10' STRIPE 30' SPACE
- 8. PARKING SPACES SHALL BE STRIPED WITH 4" SWL; HATCHED AREA SHALL BE STRIPED WITH 4" SWL AT A 45° ANGLE, 2' ON CENTER. HATCHING, SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED WHITE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED.
- 9. PAVEMENT MARKINGS SHALL BE HOT APPLIED TYPE IN ACCORDANCE WITH STATE DOT SPECIFICATIONS, UNLESS WHERE EPOXY RESIN PAVEMENT MARKINGS ARE INDICATED.
- 10. ALL ADA DESIGNATED PARKING STALLS, ACCESS AISLES AND PEDESTRIAN WALKWAYS SHALL CONFORM TO THE CURRENT VERSION OF THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN AND ANSI STANDARDS AND MAY BE SUPERCEDED BY THE STATE BUILDING CODE.
- 11. CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1 UNIFORM FIRE CODE.
- A KNOX BOX FOR THE CITY OF BETHLEHEM FIRE DEPARTMENT ACCESS MUST BE INSTALLED. THE LOCATION IS TO BE DETERMINED.

### STATEMENT OF INTENT

THE INTENT OF THIS COMMERCIAL LAND DEVELOPMENT IS TO CONSTRUCT A SHEETZ CONVENIENCE STORE, ASSOCIATED DRIVE-THRU, A CAR WASH, GAS SERVICE STATIONS, AND ASSOCIATED FEATURES SHOWN HEREON.

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#384 REBUILD

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DATE 11/22/2022
PROJECT NO. 21-0171
CAD FILE:
04 - SITE PLAN

**10N** PER EAC, LVPC & CITY REVIEWS

DATE DESCRIPT

AEVISIONS

NO. DATE

1 04/14/2023

TITLE 50' SCALE

50' SCALE SITE PLAN

SHEET NO.

04 of 17

SCALE: 1"= 50'



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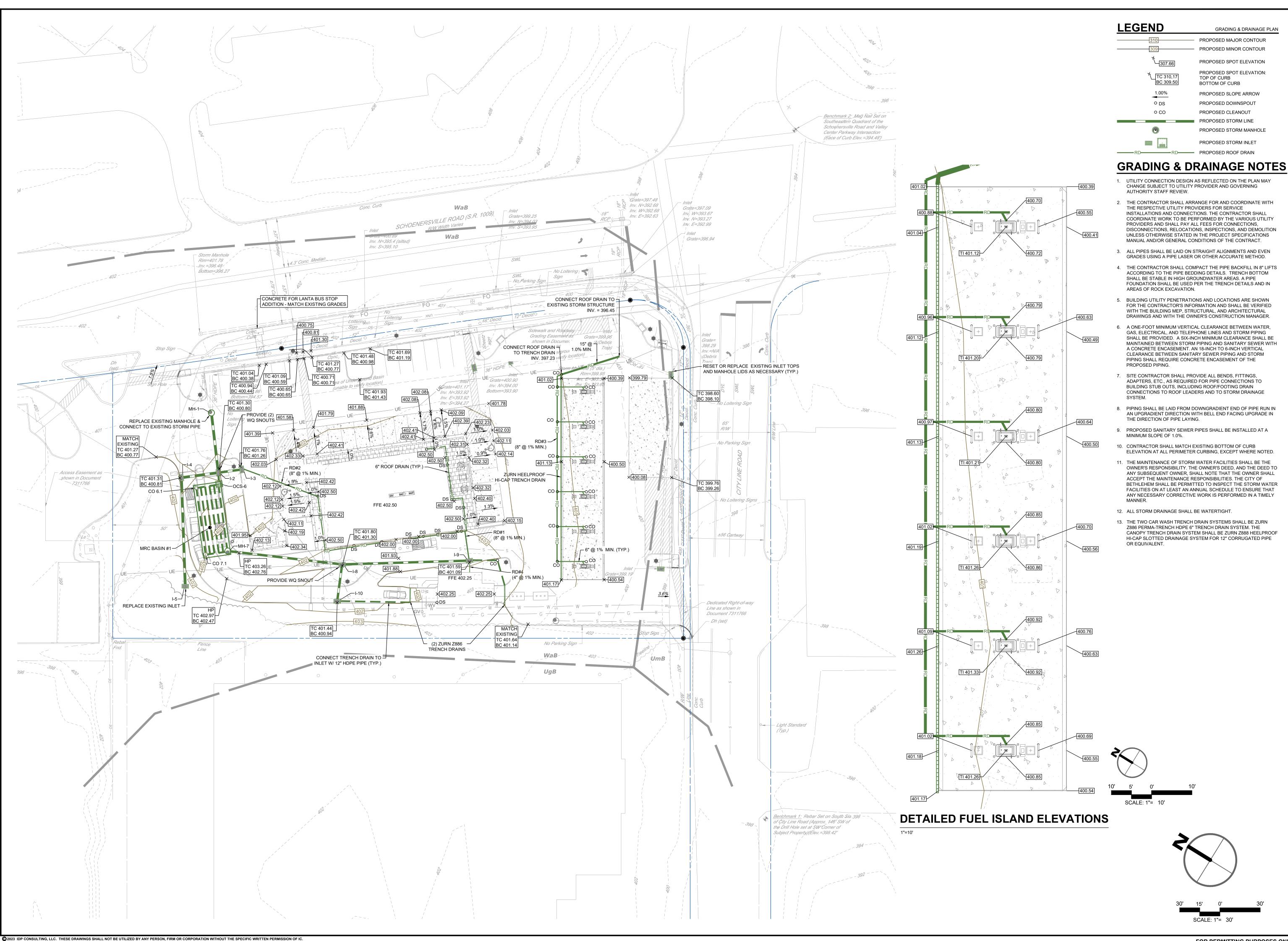
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PROFESSIONAL SEAL CM/MS AS NOTED 11/22/2022 PROJECT NO. 21-0171 04 - SITE PLAN

SITE PLAN

SHEET NO.

05 of 17



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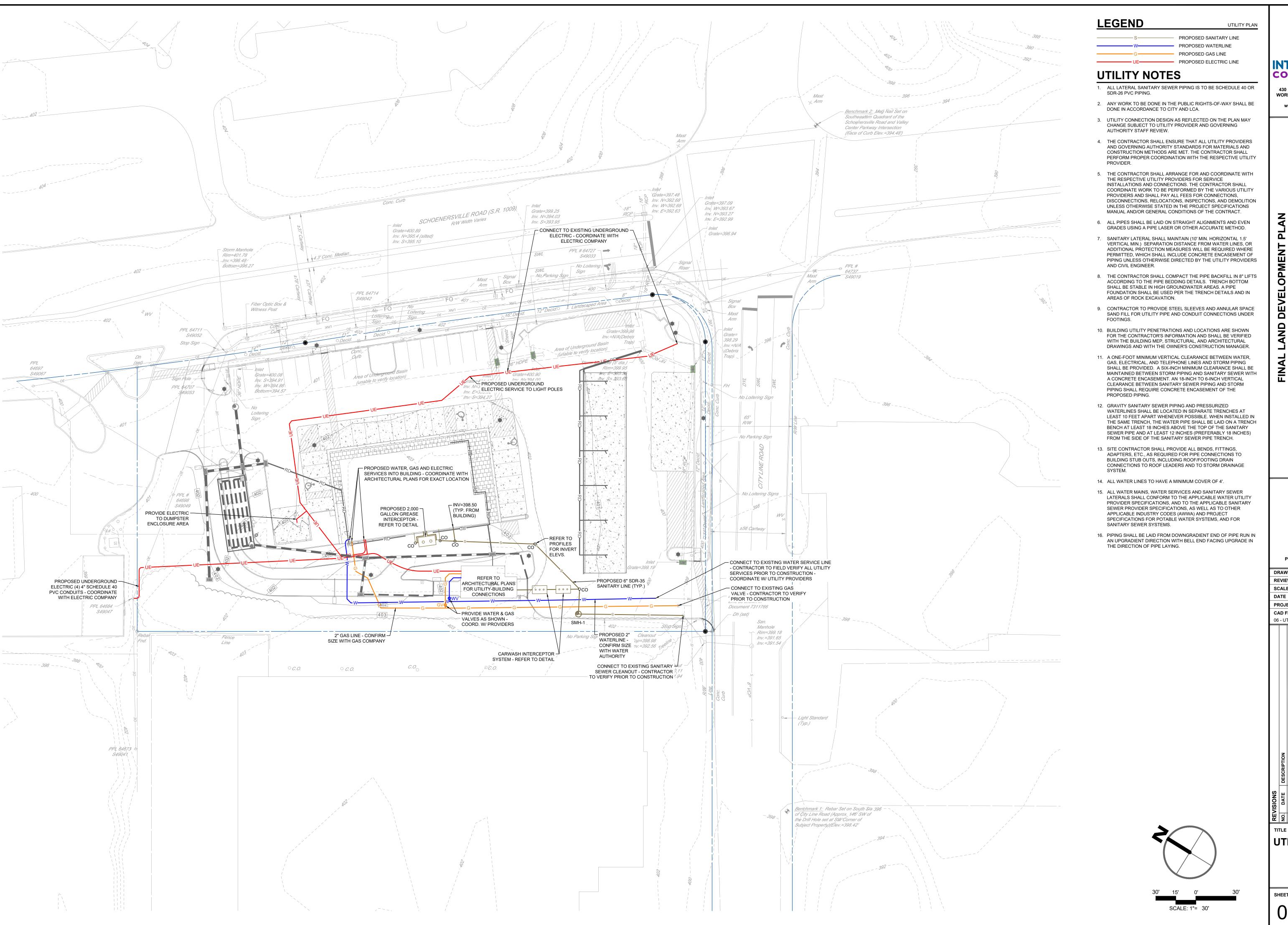
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**REVIEWED** SCALE AS NOTED PROJECT NO. CAD FILE: 05 - GRADING PLAN

**GRADING AND** DRAINAGE PLAN

06 of 17



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84 REBUILD

HEETZ STORE #38

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PROFESSIONAL SEAL

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SCALE AS NOTED
DATE 11/22/2022
PROJECT NO. 21-0171
CAD FILE:
06 - UTILITY PLAN

223 REVISED PER EAC, LVPC & CITY REVIEWS

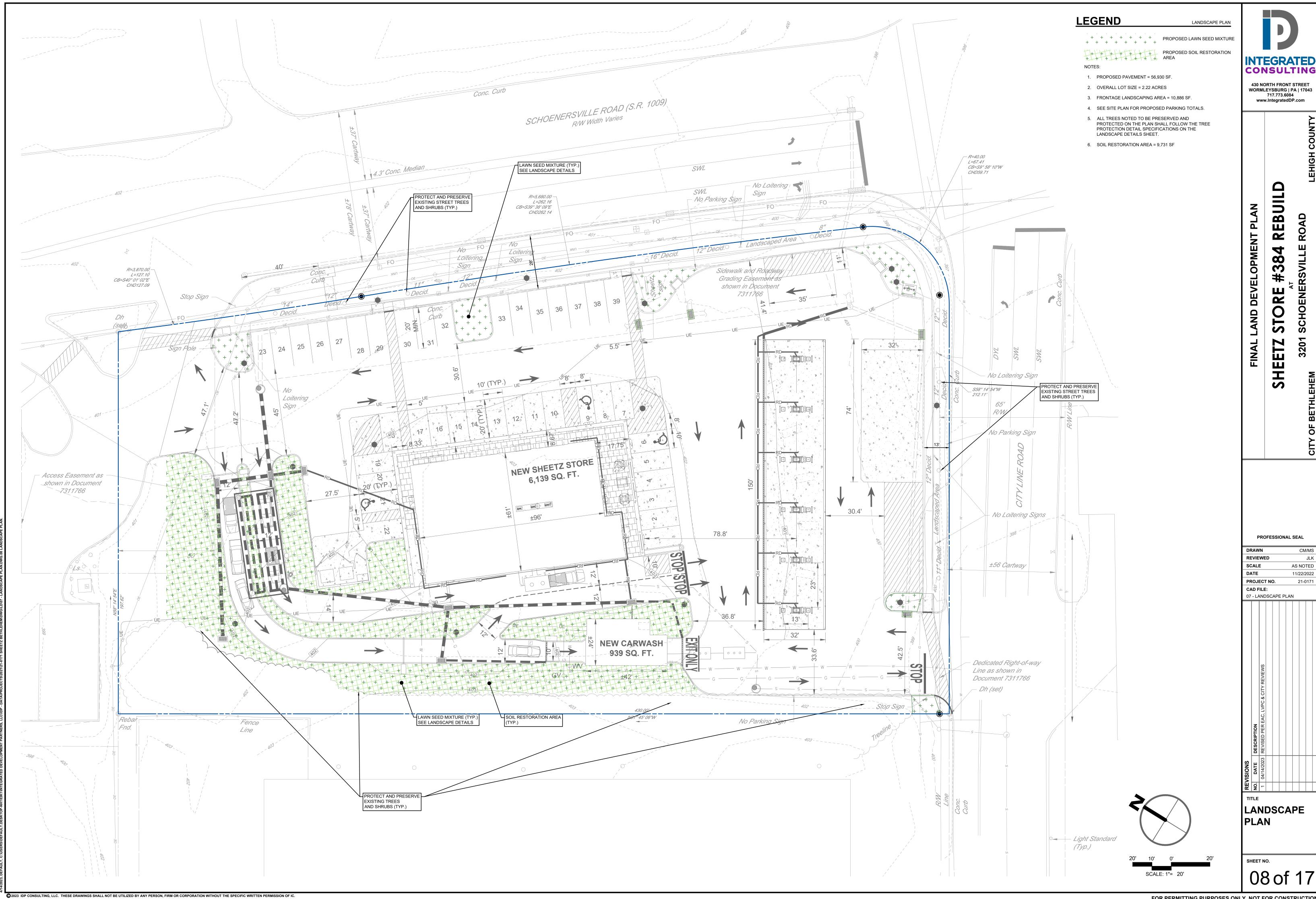
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UTILITY PLAN

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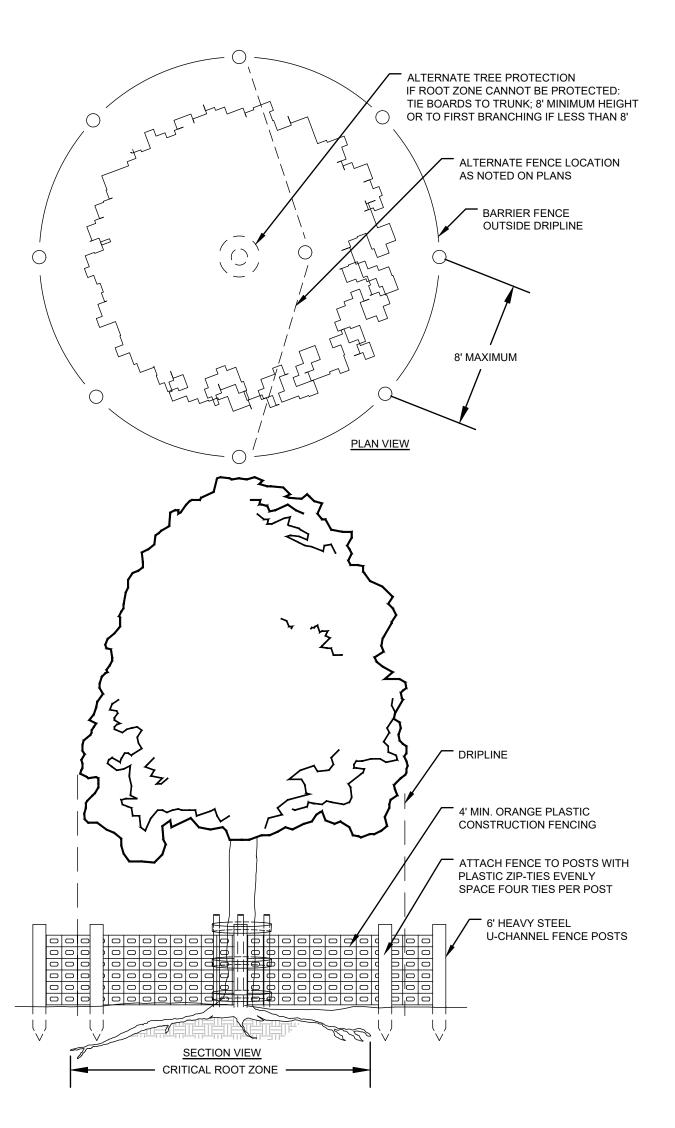
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AS NOTED 11/22/2022



TREE PROTECTION

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N.T.S

### **GENERAL LANDSCAPE NOTES:**

- THE LANDSCAPE PLAN AND DETAIL ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE PLAN, LIGHTING PLAN, GRADING AND DRAINAGE PLAN, AND DEMOLITION PLAN FOR ALL OTHER INFORMATION.
- 2. ALL EXISTING VEGETATION SHALL BE MAINTAINED WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION OF THE PROPOSED PLAN OF DEVELOPMENT. EVERY EFFORT POSSIBLE SHALL BE MADE TO PROTECT EXISTING VEGETATION FROM DAMAGE DUE TO EQUIPMENT
- 3. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR. THE WARRANTY PERIOD BEGINS WHEN THE MAINTENANCE BOND FOR PUBLIC IMPROVEMENTS BEGINS. PLANT MATERIAL WHICH HAS DIED OR BECOME DISEASED OR PEST-RIDDEN SHALL BE REMOVED AND REPLACED WITHIN 6 MONTHS BY THE DEVELOPER AS REQUIRED TO MEET THE DESIGN OF THE ORIGINALLY APPROVED LANDSCAPE PLAN.
- 4. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SCHEDULE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND THOSE REQUIRED BY THE DRAWINGS. THE LARGER SHALL APPLY, ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE.
- THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, UTILITY LOCATIONS AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS FOR THE REVIEW, ADJUSTMENT, AND APPROVAL OF OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- 6. UTILITY LOCATIONS SHOWN IN THE DRAWINGS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- 7. ALL PLANTING BEDS SHALL BE MULCHED TO A DEPTH OF 3". MULCH SHALL BE TRIPLE-SHREDDED HARDWOOD BARK MULCH TO BE SELECTED BY OWNER.
- 8. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY LANDSCAPE CONTRACTOR. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT.
- 9. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE AND GRADING PLANS AND ALTA/ACSM LAND TITLE SURVEY PLANS. SEE LIGHTING PLAN FOR ELECTRICAL AND LIGHTING LAYOUT AND DETAILS. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- 10. PLANTING SOIL MIXTURE FOR ALL PLANTINGS SHALL CONSIST OF: 1 PART PEAT MOSS OR COMPOST, 3 PARTS TOPSOIL, "TRANSPLANT 1-STEP" FERTILIZER / BIOSTIMULANT / MYCORRHIZA INOCULATE AS MANUFACTURED BY ROOTS, INC. OR AN APPROVED EQUIVALENT, AND LIME AND OTHER AMENDMENTS AS INDICATED BY SOIL ANALYSIS.
- 11. PLANTING SOIL MIXTURE THE INFILTRATION/DETENTION FACILITY SHALL CONSIST OF: 30% AND LIME AND OTHER AMENDMENTS AS INDICATED BY SOIL ANALYSIS. CONTRACTOR SHALL PROVIDE LANDSCAPE ARCHITECT WITH SAMPLES OF THE CERTIFIED BIO-RETENTION PLANTING MIX FOR REVIEW AND APPROVAL.

### 12. PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF, THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A STRAIGHT TRUNK WITH A SINGLE MAIN LEADER UNLESS OTHERWISE CHARACTERISTIC OF THE SPECIES OR VARIETY. THE OWNER OR LANDSCAPE ARCHITECT WILL ALLOW SUBSTITUTIONS ONLY UPON WRITTEN APPROVAL. SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OVERSTORY TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSES SHALL NOT BRANCH BELOW 7' FEET IF THE TREE CALIPER IS 2 1/2" INCHES OR GREATER. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT.

- SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT 13. ALL SLOPES OF 3:1 OR GREATER RECEIVING A GRASS SEEDING MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET.
  - 14. TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES. CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST AT NO INCREASE IN CONTRACT PRICE.
  - 15. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBANCE IS ALLOWED IN THE TREE PROTECTION ZONE UNLESS INDICATED ON THE PLAN.
  - 16. BARRICADES MUST BE INSTALLED PRIOR TO ANY DESTRUCTION AND/OR CONSTRUCTION
  - 17. THE ROOT PROTECTION ZONE SHALL BE THE AREA ENCOMPASSED BY A CIRCLE WITH A RADIUS EXTENDING 1.25 FT FROM THE TRUNK OF THE TREE FOR EVERY INCH DBH (DIAMETER AT BREAST HEIGHT) OF THE TREE.
  - 18. VIOLATIONS OF TREE PROTECTION REQUIREMENTS ARE SUBJECT TO PENALTY PER CITY
  - 19. ALL TREES ON PUBLIC PROPERTY ARE PROTECTED BY ORDINANCE: NO PRUNING, ROOT PRUNING OF ROOTS OVER ONE INCH IN DIAMETER, AND/OR TREE REMOVAL IS TO BE PERFORMED WITHOUT A PERMIT AND WORK MUST BE PERFORMED BY A CITY LICENSED TREE
  - 20. ALL PLANT MATERIALS ARE TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
  - 21. STREET AND PARKING LOT TREES SHALL BE A MINIMUM OF 14' IN HEIGHT AND HAVE A SINGLE STRAIGHT TRUNK WITH THE FIRST LATERAL BRANCH AT 7' ABOVE THE ROOT BALL. TREES WITH AN UPRIGHT BRANCHING HABIT, SUCH AS ZELKOVA, MAY HAVE THE FIRST LATERAL BRANCH AT 6' ABOVE THE ROOT BALL.
- TOPSOIL, 30% SAND, 20% STABILIZED ORGANIC COMPOST, 20% FINE SHREDDED WOOD CHIPS, 22. ALL LANDSCAPING SHALL CONFORM TO THE CURRENT EDITION OF THE ARBORICULTURAL SPECIFICATIONS AND STANDARDS OF PRACTICE OF THE CITY OF BETHLEHEM.

### LANDSCAPE MAINTENANCE NOTES

- 1. LANDSCAPING SHOWN ON THIS PLAN SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION AT ALL TIMES. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OF RECORD OR HIS DELEGATED REPRESENTATIVE TO PROPERLY MAINTAIN AND CARE FOR ANY LANDSCAPE SCREEN OR OTHER TREATMENT AS APPROVED BY NEWBERRY TOWNSHIP.
- 2. NEWLY PLANTED TREES AND SHRUBS REQUIRE DEEP, REGULAR WATERING THROUGHOUT THE FIRST GROWING SEASON AND AS SUCH, MAY REQUIRE SUPPLEMENTAL WATERING AFTER THE FIRST FULL GROWING SEASON TREES AND SHRUBS SHOULD NOT REQUIRE SUPPLEMENTAL WATER EXCEPT IN EXTREMELY DRY GROWING SEASONS.
- DECIDUOUS TREES THAT OVERHANG PEDESTRIAN OR VEHICULAR ROUTES SHALL BE MAINTAINED TO KEEP AWAY FROM GROUND TO A HEIGHT OF 8' FREE OF BRANCHES AND FOLIAGE.
- 4. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A SEPARATE PROPOSAL TO MAINTAIN ALL TREES, SHRUBS, GROUNDCOVER, AND PERENNIALS FOR
- 5. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ONLY COMPETENT AND TRAINED PERSONNEL PROVIDE MAINTENANCE SERVICES AND THAT SUCH SERVICES ARE PROVIDED IN A TIMELY MANNER.
- GROWING SEASON (MARCH 31 OCTOBER 31). 7. THE CONTRACTOR SHALL ENSURE THAT ANY LANDSCAPING THAT MAY BE

### **SEED MIXTURES**

A. LAWN SEEDING/SOD MIXTURE:

SPECIES: 15 % PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS) 25 % FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS) 60 % KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED

SEEDING RATE: 5 LBS/1,000 S.F.

### SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 15, UNLESS OTHERWISE APPROVED BY THE APPLICANT.

### 6. THE OWNER SHALL ENSURE THAT ANY EXISTING LANDSCAPING THAT IS DEAD OR DECLINING SHALL BE REMOVED AND REPLACED DURING THE

### DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITHIN 6 MONTHS OF DAMAGE OCCURRING.

### SOIL AMENDMENT/RESTORATION

- 1. ENHANCED SOIL MIX SHALL CONSIST OF 33% ORGANIC MATTER (COMPOST) AND 67% SOIL BASE (TOPSOIL). SOIL SHALL HAVE A CLAY CONTENT OF LESS THAN 10% AND BE FREE OF TOXIC SUBSTANCES.
- . CONSTRUCT ONLY AFTER UPSTREAM AREAS HAVE BEEN STABILIZED OR DIVERT RUNOFF DURING CONSTRUCTION. EXCAVATE TO 18 INCHES BELOW FINAL POND BOTTOM AND SCARIFY EXISTING SOILS, DO NOT COMPACT IN-SITU SOILS.
- BACKFILL WITH ENHANCED SOIL, LIGHT HAND TAMPING IS ACCEPTABLE. OVERFILL AS REQUIRED TO ACCOUNT FOR SETTLEMENT.

ENHANCED SOIL PARAMETERS				
SOIL TEXTURE	IDEAL BULK DENSITIES g/cm³	BULK DENSITIES THAT MAY AFFECT ROOT GROWTH g/cm³	BULK DENSITIES THAT RESTRICT ROOT GROWTH g/cm³	
SANDS, LOAMY SANDS	< 1.60	1.69	1.80	
SANDY LOAMS, LOAMS	< 1.40	1.63	1.80	
SANDY CLAY LOAMS, LOAMS, CLAY LOAMS	< 1.40	1.60	1.75	
SILT, SILT LOAMS	< 1.30	1.60	1.75	
SOIL LOAMS, SILTY CLAY LOAMS	< 1.10	1.55	1.65	
SANDY CLAYS, SILTY CLAYS, SOME CLAY LOAMS (35-45% CLAY)	< 1.10	1.49	1.58	
CLAYS (> 45% CLAY)	< 1.10	1.39	1.47	

### **ORDINANCE REQUIREMENTS - ZONING §1319**

ECTION:		REQUIRED	PROPOSED	VARIANCE
		STREET TREES ALONG PUBLIC AND PRIVATE		
£1310 02/iV(1)	STREET TREES AND PARKING LOT TREES	STREETS AT 30 FEET O.C. UNLESS EXISTING	EXISTING STREET TREES TO BE PRESERVED.	NO
§1319.02(j)(1)	STREET TREES AND PARKING LOT TREES	TREES WILL BE PRESERVED TO SERVE THE	EXISTING STREET TREES TO BE PRESERVED.	NO
		SAME FUNCTION.		
		ONE DECIDUOUS SHADE TREE FOR EVERY 15		
§1319.02(j)(2)	STREET TREES AND PARKING LOT TREES	SURFACE PARKING SPACES.	>3 EXISTING TREES TO BE PRESERVED AND	NO
31313.02(J)(2)	STREET TREES AND FARRING LOT TREES		COUNT TOWARD TREE REQUIREMENT.	NO
		39 PROPOSED SPACES / 15 = 3 TREES		

### **ORDINANCE REQUIREMENTS - SALDO §1349**

SECTION:		REQUIRED	PROPOSED	WAIVER	
§1349.08(f)(1)	INTERIOR LANDSCAPING	LANDSCAPED OFF-STREET PARKING AREAS SHALL HAVE A MINIMUM OF TEN (10%) PERCENT OF THE AREA REPRESENTED BY APPROVED PLANTINGS.  TOTAL PAVED AREA = 56,930 SF 56,930 X 0.10 = 5,693 SF INTERIOR LANDSCAPING	7,430 SF OF INTERIOR LANDSCAPING TO BE PRESERVED. (CALCULATIONS PER SALDO TREE CREDIT SPECIFICATIONS)	NO	

### LANDSCAPE PLAN PREPARED BY:

**ELLIOT SHIBLEY** RLA, PROJECT MANAGER TITLE INTEGRATED CONSULTING 610-780-5714 ELLIOT@INTEGRATEDDP.COM

SIGNATURE

CONSULTING

**430 NORTH FRONT STREET** WORMLEYSBURG | PA | 17043 717.773.6084 www.IntegratedDP.com

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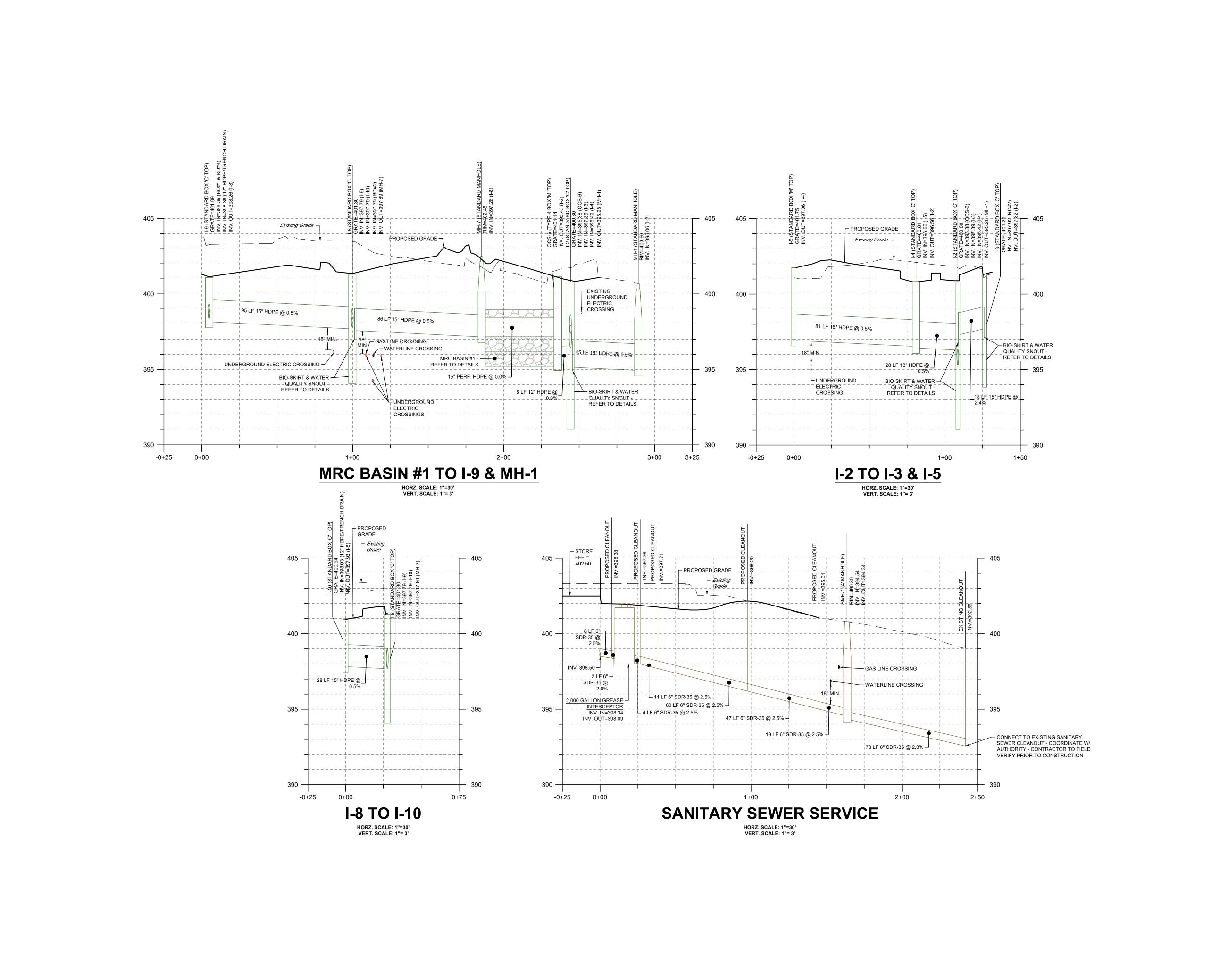
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PROFESSIONAL SEAL

REVIEWED AS NOTED SCALE PROJECT NO. CAD FILE: 07 - LANDSCAPE PLAN

LANDSCAPE

DETAILS





#384 REBUILD

SHEETZ STORE #38

PROFESSIONAL SEAL

DRAWN CM/MS
REVIEWED JLK
SCALE AS NOTED
DATE 11/22/2022
PROJECT NO. 21-0171
CAD FILE:
08 - PROFILES

DESCRIPTION

23 REVISED PER EAC, LVPC & CITY REVIEWS

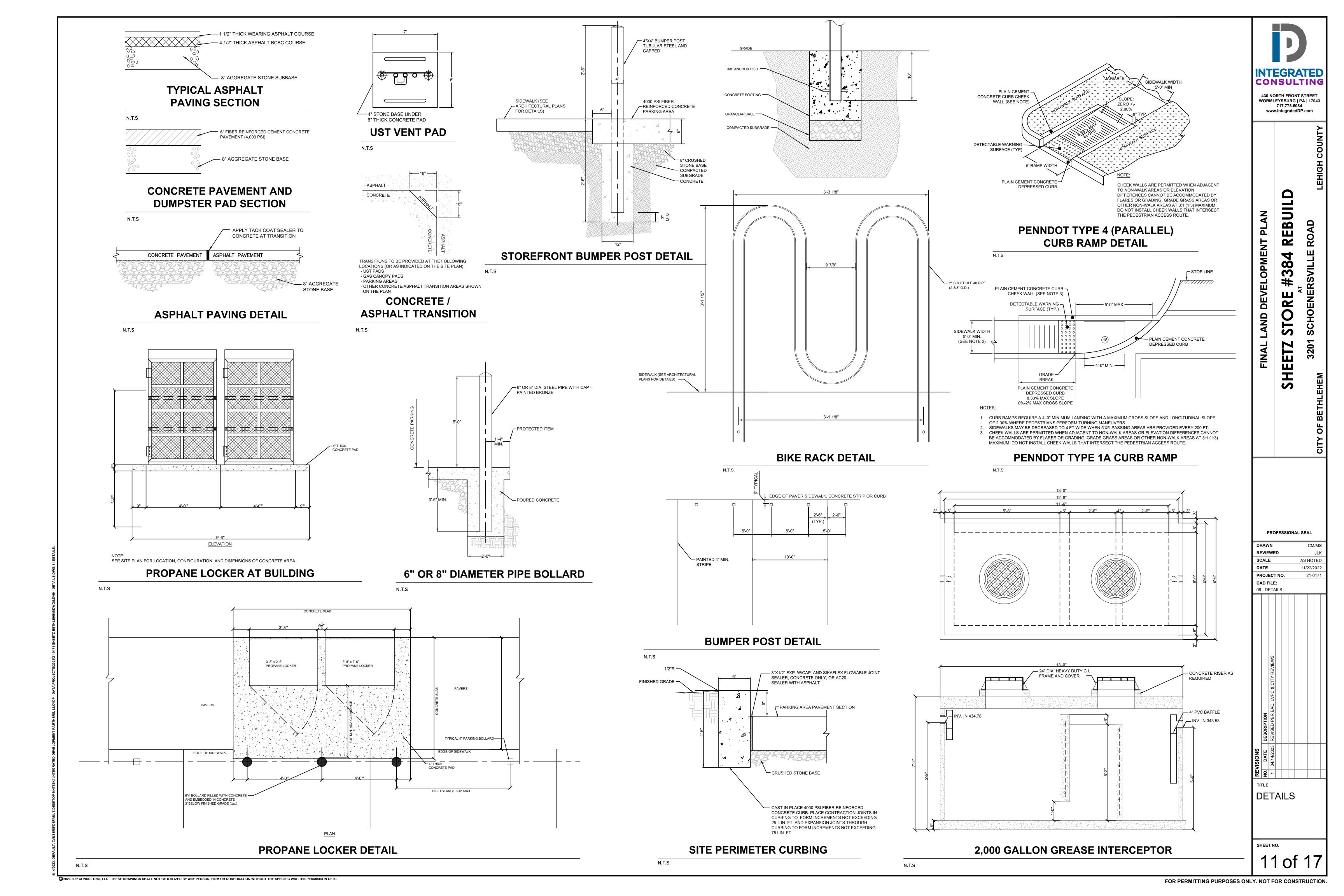
PROFILES

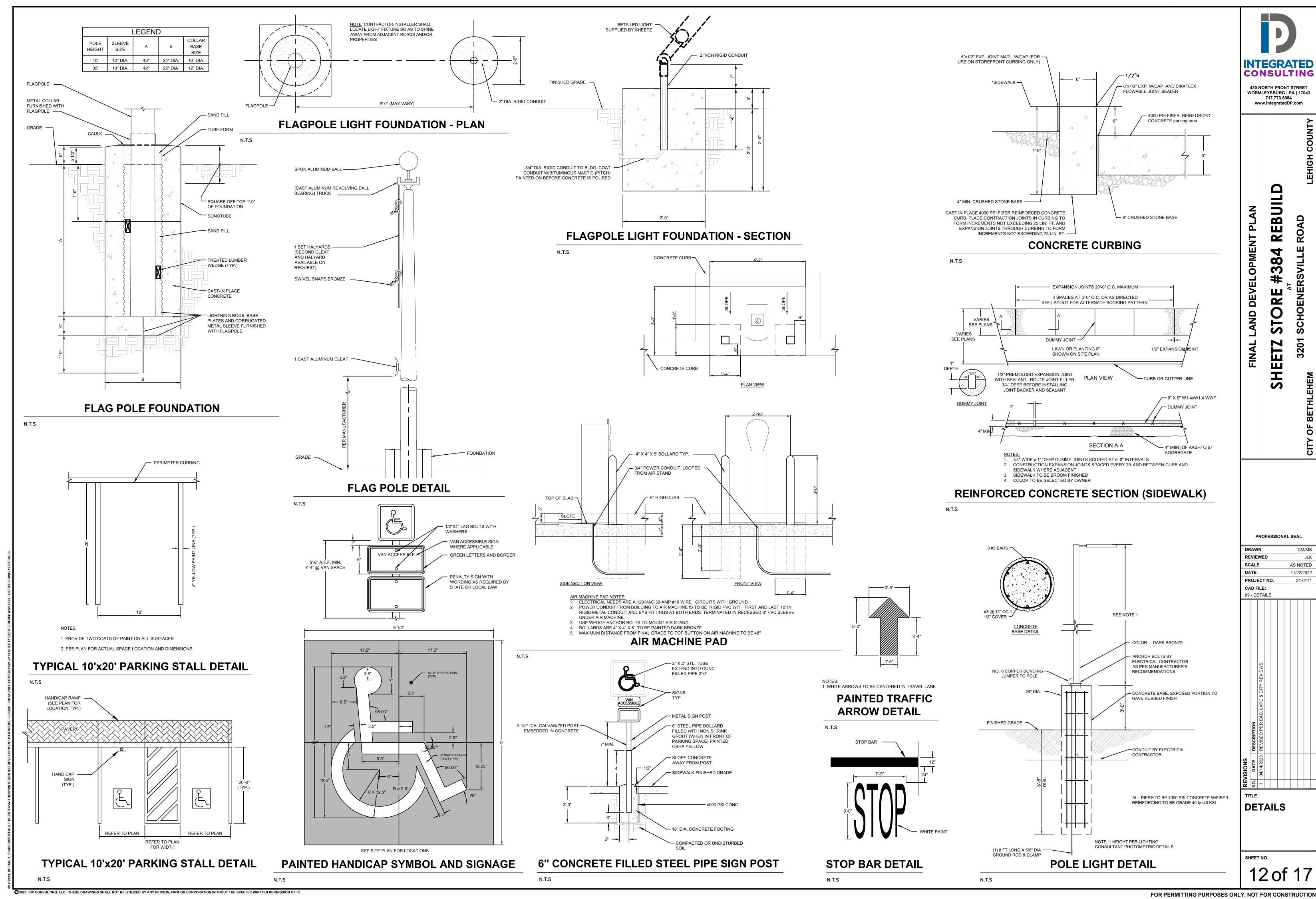
PROFILE

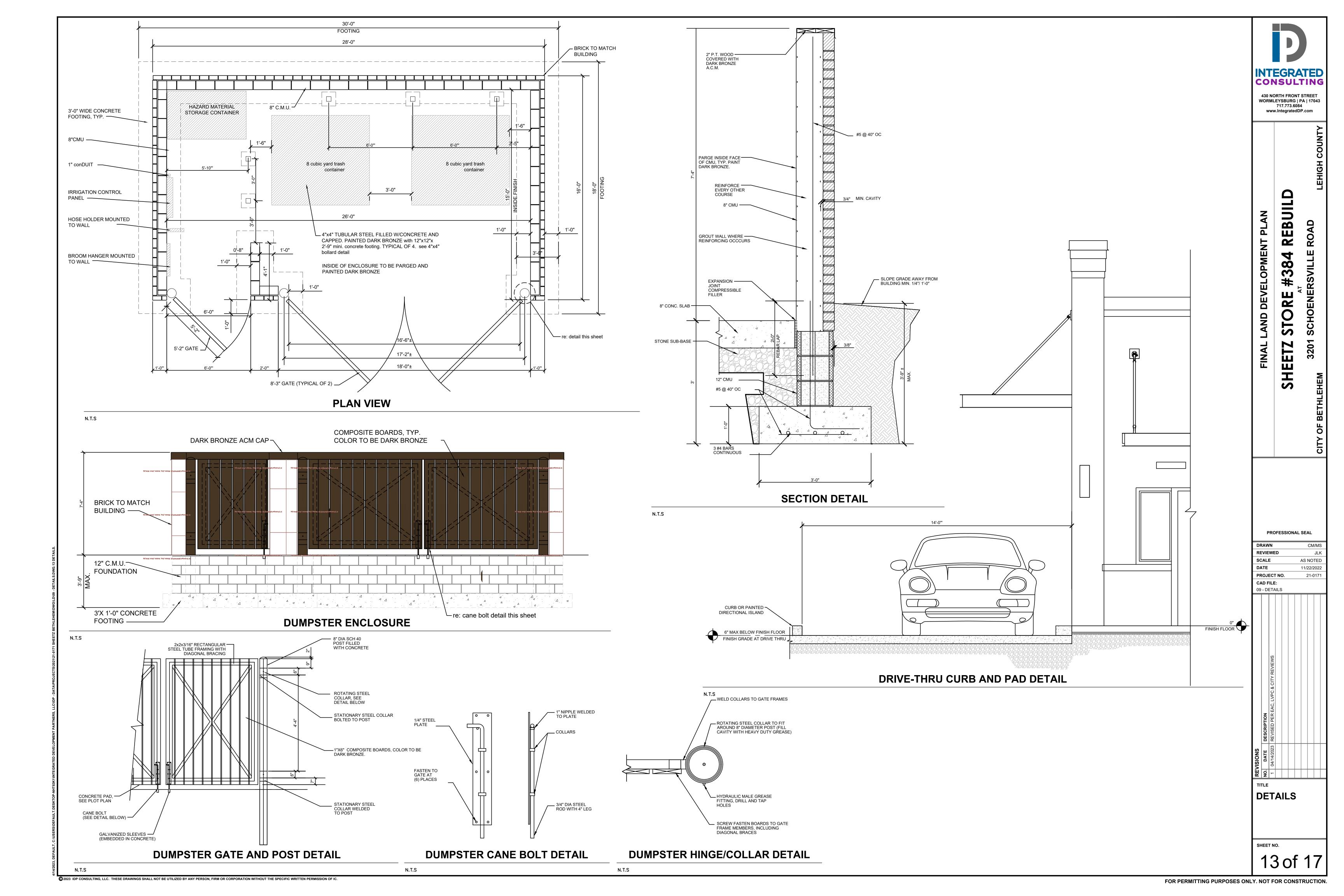
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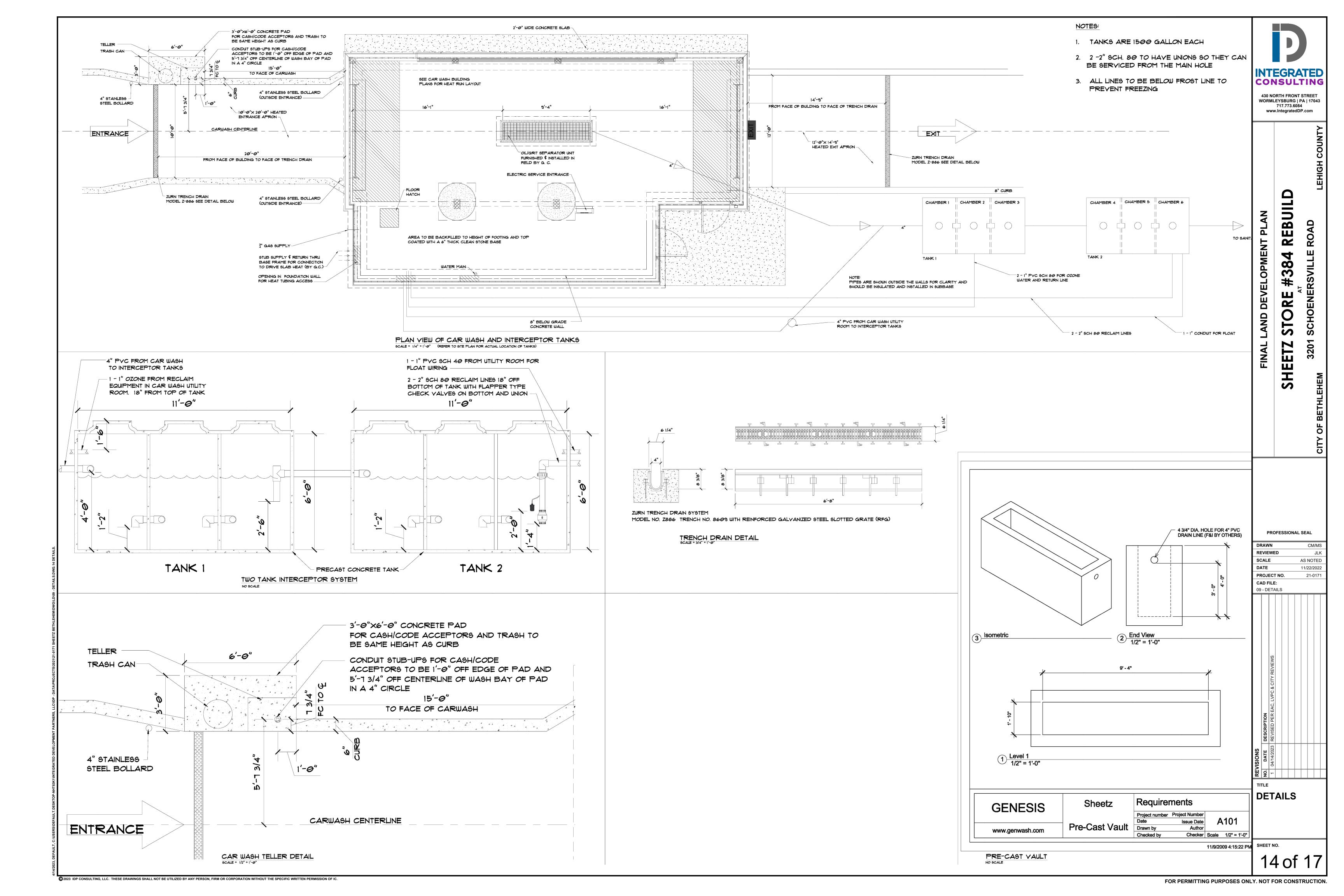
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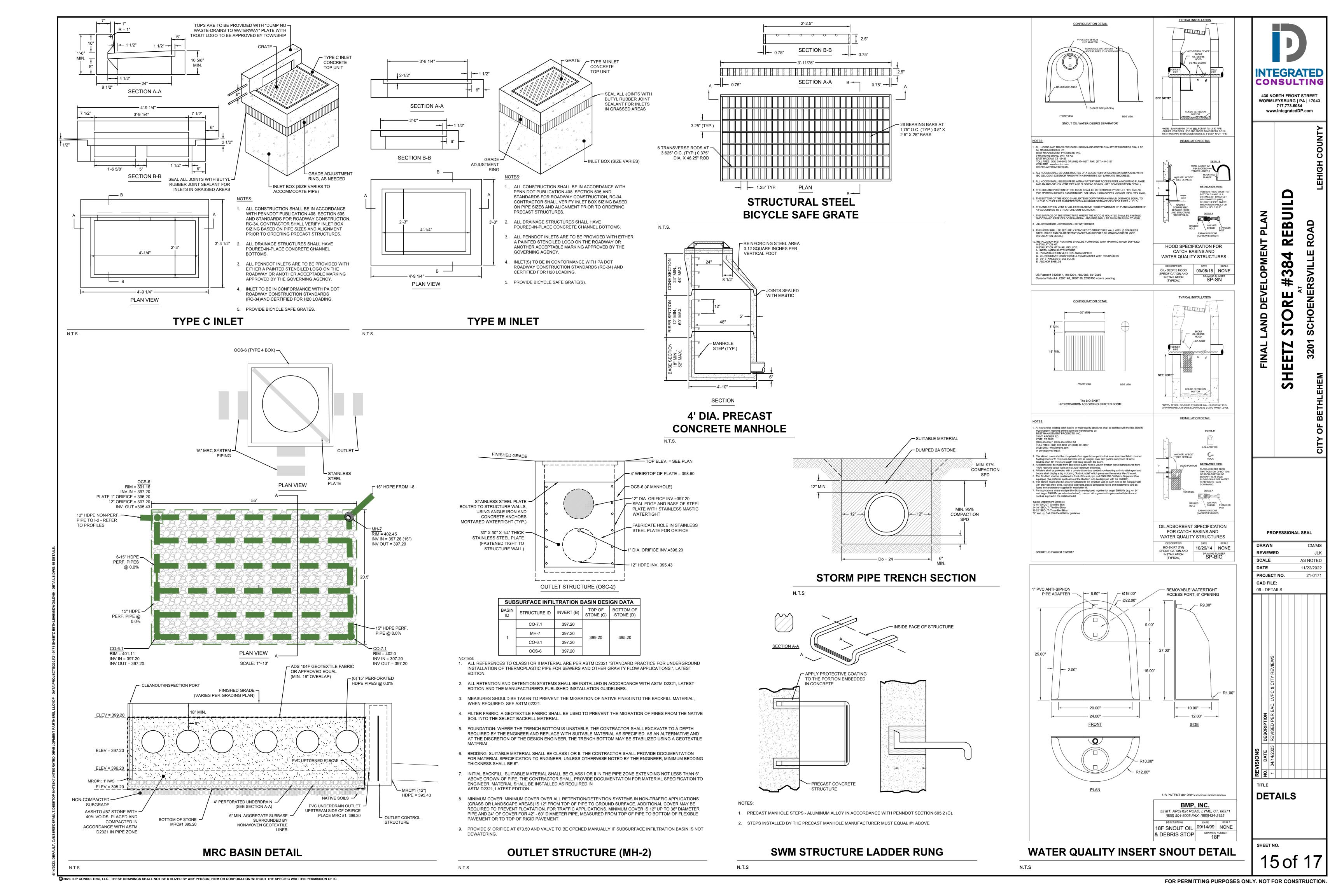
VER. SCALE: 1"= 3'













### Z886 Perma-Trench® Drain Systems

Engineered Lightweight and Designed to Last

When your pros in the field say it's handled, they'll mean it. No equipment or heavy lifting. No extra workers stepping in to help out. And most importantly, no mishaps or hefty claims as a result from lugging around multiple, bulky parts.

We engineer our trench drain systems around the notion of making it more convenient for the contractor without any compromise in performance.



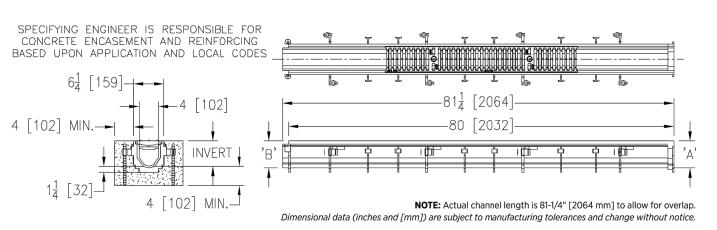
Reducing installation time is always our first consideration. When a job goes smoother, you save time and money. For the Perma-Trench, the solution comes down to its design. Our system is lightweight, stronger, and features the longest HDPE channels in the industry. Our 80-inch modular sections require less manpower to install and fewer joints than comparable models, leading to a cleaner installation that saves you money.

### **Secure and Protected**

To easily set in place, the channels' rebar clips allow for quick and simple height adjustment. Combination tie-down/leveling clips at 20-inch intervals help you clinch the perfect slope. Couple that with mechanical interlocking ends, and you have a system that's effortless to carry, set, align, and level. The system also includes an optional debris cover to shield the trench during the process and prevent delays for cleanout.

### Performance After Installation

Satisfying your project requirements shouldn't sacrifice erformance. Perma-Trench comes standard with a radiused pottom, which increases the low-volume flow rate and reduces sediment buildup. Depending on the jobsite, contractors can choose between a 0.75% channel slope or a neutral slope for nstallation flexibility. Its high density polyethylene construction is non porous and corrosion resistant, helping to eliminate leaks, cracks, warping or failure from the elements. Multiple choices of grate materials, finishes, and load ratings meet all of your requirements and expectations.



### **Z886 Perma-Trench® Drain System Engineering Specification**

Zurn Z886 Channels are 80" [2032 mm] long, 6-1/4" [159 mm] wide reveal and have a 4" [102 mm] throat. Modular channel sections are made of 0% water absorbent high density polyethylene (HDPE). Channels have a positive mechanical connection between channel sections that will not separate during the installation and mechanically lock into the concrete surround a minimum of every 10" [254 mm]. Channels weigh less than 2.31 lb per linear foot [3.9 kg/m], have a smooth, 1-1/2" [38 mm] radiused self cleaning bottom with a Manning's coefficient of .009 and .75% or neutral 0% built-in slope. Channels come standard with rebar clips to secure trench in its final location. Channels also include DGC grates with lockdown bars (not intended for dynamic traffic loadings). Zurn 5-3/8" [137 mm] wide reveal ductile iron slotted grate, conforming to ASTM specification A536-84, grade 80-55-06. Ductile iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20" [508 mm] nominal lengths with 1/2" [13 mm]

wide slots and 3/4" [19 mm] bearing depth. Grate has an open

area of 28.1 sq in per ft [60,308 sq mm per meter].



### Visit **zurn.com** to learn more.

ZURN INDUSTRIES, LLC Trench Drainage Operation 1801 Pittsburgh Avenue, Erie, PA 16502, 855.663.9876 In Canada: ZURN INDUSTRIES LIMITED 7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877.892.5216 Form No. 220-058, 3/19

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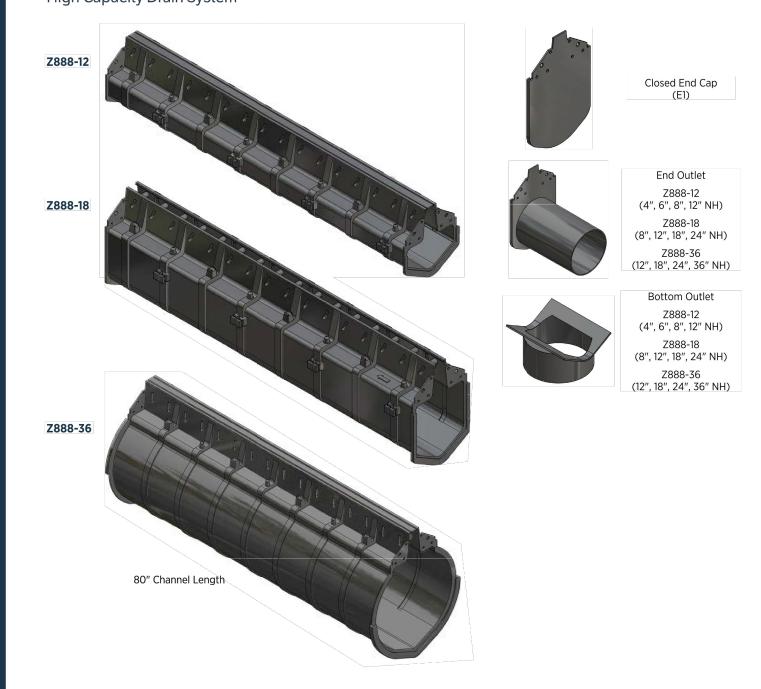
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\*Debris Covers are non-load bearing

### HI-CAP® LLDPE TRENCH DRAINS

### Z888 Hi-Cap®

High Capacity Drain System



### **Z888 Applications**

Wineries

 Highways Parking Lots Airports Gas Stations Ports Industrial Parks

	FLOW RATES @ GRADES				
PRODUCT SIZE	LAID FLAT (CFS)	.3% SLOPE (CFS)	.6% SLOPE (CFS)	1% SLOPE (CFS)	STORAGE CAPACITY (GPF)

Airplane Hangars

### **Features and Benefits**

• 80" Pre-engineered Modular Sections - Allows quick and easy assembly, straighter installation

"V" Shaped Bottom – Better flow rate, less solids build-up

Smooth Polyethylene Interior – 0% water absorption

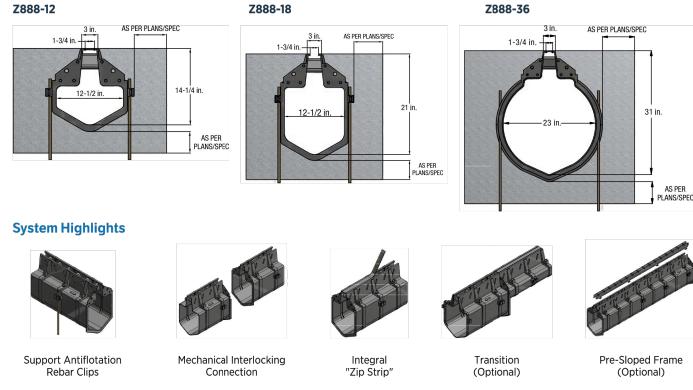
Chemical Resistance – Strong corrosion-resistant material

• Positive Mechanical Joint Connection - Keeps trench system straight

• Tie Down Leveling Device Every 20" – Positive anchoring to place and set installation to the desired elevation

• Integral Protective "Zip Strip" – Keeps body clean of debris and materials during installation. Remove after concrete pour • Extra-Heavy-Duty Frame – Optional extra-heavy-duty top frame or heavy-duty ductile iron frame complete with anchor studs to handle

### **Installation Specification** Consult Plans and Specifications

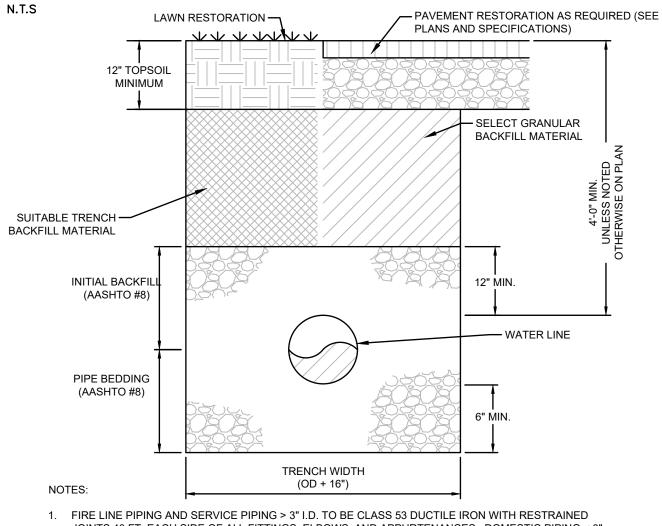


### **Engineering Specification**

Slot drain shall be 80" long, Z888-12 (14-1/4" deep and 12" wide); Z888-18 (21" deep and 12" wide); or Z888-36 (31" deep and 23" wide). Slot shall be 1-3/4" wide and have spacer bars at 5" intervals to keep sides of slot apart. Drain shall be made of Linear Low Density Polyethylene (LLDPE). Drain shall have tongue-and-groove interlocking ends and clips molded into the sides of the channel to accommodate vertical rebar for positioning and anchoring purposes. Drain shall be available with a choice of pedestrian, bicycle, FAA, and/or H-20 grates. End outlets, bottom outlets, and side outlets shall be available in 4", 6", 8", 12", 18", 24", and 36" diameters. Twenty-four-inch long cleanout sections shall be available with removable ductile iron grate. Slot drain shall be Flo-Thru model Z888-12, Z888-18, or Z888-36. For downloadable CSI format specification, visit www.zurn.com.

IN PAVEMENT IN EARTH APPROVED COMPACTED BACKFILL (95% MAX DRY DENSITY) COMPACTION PER SEE DETAIL FOR ASTM D1557 IN 8" LIFTS PAVEMENT SECTION TRENCH WIDTH: 1'-6" (GAS) 1'-0" ELECT., TELE., AND CATV. 3'-0" WHEN ELECT., CATV, AND TEL. ARE GROUPED IN TRENCH SELECT GRANULAR BACKFILL MATERIAL - METAL STRIPS BURIED 12" ABOVE P.E. PIPE EVERY 5' & AT BENDS (GAS LINES ONLY) MARKING TAPE BURIED OVER ELECTRIC AND TELEPHONE CONDUITS → 12" SAND COVER OVER PIPE **BOTTOM OF CONDUIT** · 7" SAND BED FROM MAIN TO METER PIT SPECIAL FOUNDATION, IF ORDERED BY ENGINEER 3/4" (GAS LINE ONLY) CRUSHED STONE TO BE INSTALLED TO DEPTH 1'-0" MIN. IN ROCK DETERMINED BY GEOTECHNICAL ENGINEER IN PEAT AND UNSUITABLE SOIL AREAS

### **ELECTRIC TELECOM AND GAS TRENCH DETAIL**



JOINTS 40 FT. EACH SIDE OF ALL FITTINGS, ELBOWS AND APPURTENANCES. DOMESTIC PIPING < 3" I.D. TO BE TYPE K COPPER PER ASTM B 88.

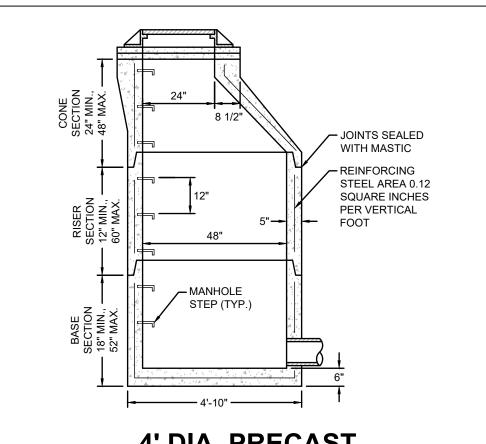
2. PIPING TO BE HYDROSTATIC PRESSURE AFTER INSTALLATION.

N.T.S.

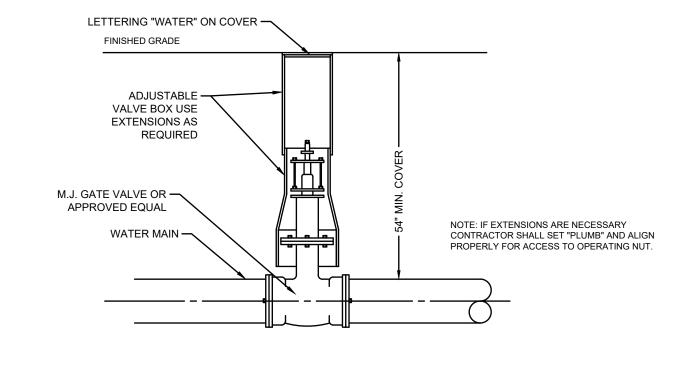
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### WATER TRENCH

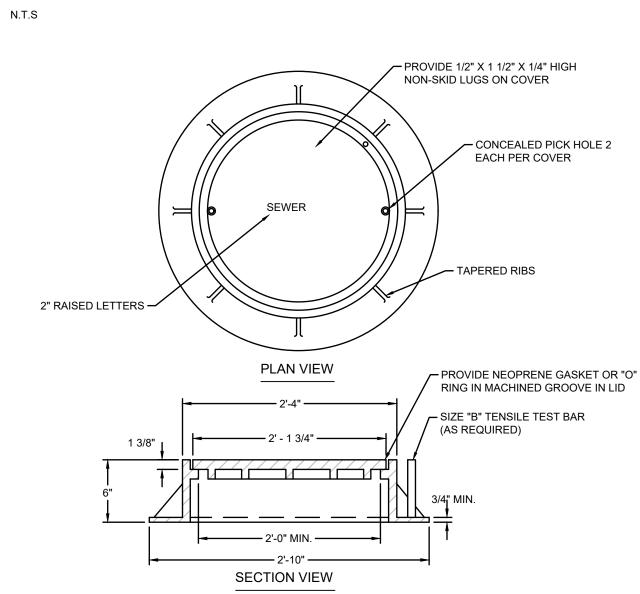


### 4' DIA. PRECAST **CONCRETE MANHOLE**

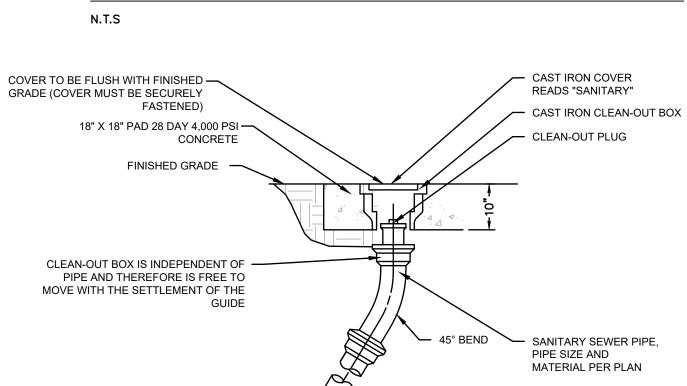


### LAWN RESTORATION - PAVEMENT RESTORATION AS REQUIRED (SEE PLANS AND SPECIFICATIONS) 12" TOPSOIL MINIMUM SELECT GRANULAR BACKFILL MATERIAL SUITABLE TRENCH BACKFILL MATERIAL INITIAL BACKFILL (AASHTO #8) SANITARY SEWER PIPE BEDDING (AASHTO #8) TRENCH WIDTH (OD + 16")

### SANITARY SEWER SERVICE TRENCH



### STANDARD MANHOLE FRAME AND COVER



1. USE NON-SHEAR COUPLING TO MAKE CONNECTIONS TO DISSIMILAR MATERIALS. MANUFACTURER NEENAH FOUNDRY R-1970-78 HEAVY DUTY OR APPROVED EQUAL. CONTACT 1-800-558-5075.

UNDERGROUND BUILDING PIPING

2. SUBMIT SHOP DRAWINGS PRIOR TO CONSTRUCTION.

45° WYE BRANCH

N.T.S

**CLEANOUT DETAIL** 

**WATER GATE VALVE** 

INTEGRATED 430 NORTH FRONT STREET WORMLEYSBURG | PA | 17043

717.773.6084 www.IntegratedDP.com

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PROFESSIONAL SEAL

CM/MS **REVIEWED** SCALE AS NOTED DATE 11/22/2022 PROJECT NO. 21-0171 CAD FILE: 09 - DETAILS

**DETAILS** 

