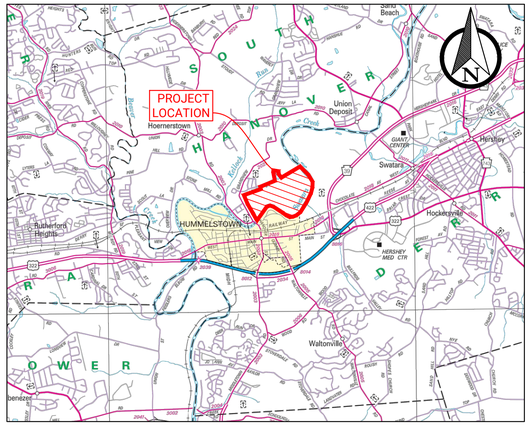
PRELIMINARY LAND DEVELOPMENT PLAN
FOR
HUMMELSTOWN QUARRY - INDUSTRIAL PARK
SOUTH HANOVER TOWNSHIP, DAUPHIN COUNTY, PENNSYLVANIA

PENNSYLVANIA ONE CALL

1. LIVIC CIVIL HAS REQUESTED LINE AND UTILITY INFORMATION FROM THE PA ONE CALL SYSTEM (POCS)
2. POCS SERIAL NUMBER: 20231660880
   DATE: JUNE 15, 2023
3. THE FOLLOWING FACILITY OWNERS HAVE INDICATED THROUGH POCS THAT THEY HAVE FACILITIES IN THE PROJECT AREA:

UTILITY: COMCAST CABLE COMMUNICATIONS INC. ADDRESS: 13085 HAMILTON CROSSING BLVD. STE 200 CARMEL, IN. 46032 CONTACT: USIC OFFICE PERSONNEL PHONE: 800-811-7981	UTILITY: FIRST ENERGY CORPORATION ADDRESS: 21 S. MAIN ST. AKRON, OH. 44308 CONTACT: MELLYSSA ADAMS EMAIL: MADAMS@FIRSTENERGYCORP.COM
UTILITY: VEOLIA WATER PENNSYLVANIA INC. ADDRESS: 6310 ALLENTOWN BOULEVARD HARRISBURG, PA 17112 CONTACT: CHRISTOPHER BRIDE EMAIL: CHRISTOPHER.BRIDE@VEOLIA.COM	UTILITY: PPL ELECTRIC UTILITIES CORPORATION ADDRESS: 437 BLUE CHURCH ROAD PAXINOS, PA. 17860 DOUG HAUPT CONTACT: DLHAUPT@PPLWEB.COM
UTILITY: VERIZON PENNSYLVANIA LLC. ADDRESS: 1026 HAY ST. PITTSBURGH, PA 15221 CONTACT: DEBORAH BARUM EMAIL: DEBORAH.D.DELIA@VERIZON.COM	UTILITY: SOUTH HANOVER TOWNSHIP ADDRESS: 161 PATRIOT WAY HERSHEY, PA. 17033 CONTACT: GREG WALTERS EMAIL: GWALTERS@SOUTHHANOVER.ORG
UTILITY: UGI UTILITIES INC. ADDRESS: 1301 AIP DR. MIDDLETOWN, PA 17057 CONTACT: STEPHEN BATEMAN EMAIL: SBATEMAN@UGI.COM	

4. BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776. PA ACT 287 OF 1974, AS AMENDED, REQUIRES THREE (3) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLAST.



PROJECT LOCATION MAP

DAUPHIN COUNTY PENNDOT TYPE 10 MAP
SCALE: AS SHOWN

2,000 0 2,000 4,000 FT

HORIZONTAL SCALE: 1 INCH = 2,000 FEET

GENERAL NOTES

1. APPLICANT/RESPONSIBLE PARTY:
   HCI DP LAND ACQUISITION LLC
   ATTN: DAN GORDON
   1780 S. POST OAK LANE
   HOUSTON, TX. 77056
   PHONE: 240.503.6522
2. LANDOWNER(S):
   PENNSY SUPPLY INCORPORATED
   2400 THEA DRIVE, SUITE 3A
   HARRISBURG, PA. 17110
3. PROJECT SURVEYOR:
   AKENS ENGINEERING ASSOCIATES INC.
   219 EAST MAIN STREET
   SHIREMANSTOWN, PA 17011
4. PROJECT ENGINEER:
   LIVIC CIVIL
   1029 MUMMA ROAD
   WORMLEYSBURG, PA 17043
5. PROJECT LOCATION:
   SOUTH HANOVER TOWNSHIP, DAUPHIN COUNTY
   LOCATED WEST OF HERSHEY PARK DRIVE (SR 0039), APPROXIMATELY 1,900 FEET NORTH OF THE INTERSECTION OF W. CHOCOLATE AVE. (SR 2018) AND HERSHEY PARK DRIVE (SR 0039).
6. PROJECT NARRATIVE:
   HANOVER COMPANY IS PROPOSING TO CONSTRUCT MULTIPLE WAREHOUSE BUILDINGS. THE PROJECT INCLUDES CONSTRUCTION OF THE ASSOCIATED PARKING AREAS AND ACCESS ROADS WITH STORMWATER MANAGEMENT FACILITIES, THE EXTENSION OF UTILITIES AND OTHER SITE FEATURES.
7. SOURCE OF TITLE:
   DB: 2914, PG: 404
   PARCEL No. 56-16-58
8. EXISTING WETLANDS WERE DELINEATED BY VORTEX ENVIRONMENTAL ON NOVEMBER 22, 2023 AND FIELD LOCATED BY AKENS ENGINEERING ASSOCIATES INC. ON NOVEMBER 22 AND 23, 2023.
9. A PennDOT HIGHWAY OCCUPANCY PERMIT IS REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P.L. 1242 NO. 428), KNOWN AS THE "STATE HIGHWAY LAW", BEFORE DRIVEWAY ACCESS TO A STATE HIGHWAY IS PERMITTED.
10. A DEP CHAPTER 105 WATER OBSTRUCTION AND ENCROACHMENT, US ARMY CORPS OF ENGINEERS SECTION 404, JOINT PERMIT APPLICATION IS REQUIRED FOR FILL ASSOCIATED WITH THE ACCESS ROADWAY(S) CROSSINGS IN THE FLOODWAY PRIOR TO FINAL LAND DEVELOPMENT APPROVAL.
11. PER SOUTH HANOVER TOWNSHIP, CHAPTER XIV FLOODPLAIN DISTRICT, A PERMIT FOR THE FILL ASSOCIATED WITH THE ACCESS ROADWAY CROSSINGS IS REQUIRED PRIOR TO FINAL LAND DEVELOPMENT APPROVAL.
12. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (42043C0364D), A PORTION OF THE PROJECT SITE IS LOCATED WITHIN THE 100-YR FLOODPLAIN AND FLOODWAY.
13. THIS PLAN CONTEMPLATES VEHICULAR ACCESS TO AND FROM THE PROPOSED BUILDINGS VIA A CONNECTION TO WAGNER STREET. THE PLAN ALSO CONTEMPLATES PROVIDING ADDITIONAL MEANS OF VEHICULAR ACCESS VIA CONNECTIONS TO PENNSY SUPPLY ROAD (TO HERSHEY PARK DRIVE) AND GRANDVIEW DRIVE. BOTH THESE ADDITIONAL ACCESS CONNECTIONS ARE CONTROLLED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, AND THE PROVISION OF THESE ADDITIONAL VEHICULAR ACCESS CONNECTIONS ARE SUBJECT TO THE APPLICANT SECURING ALL NECESSARY GOVERNMENTAL PERMITS AND APPROVALS FOR SUCH ADDITIONAL CONNECTIONS. IF SUCH GOVERNMENTAL PERMITS AND APPROVALS ARE NOT SECURED FOR EITHER OR BOTH ADDITIONAL ACCESS CONNECTIONS, THEN THE ADDITIONAL CONNECTION(S) FOR WHICH SUCH GOVERNMENTAL PERMITS AND APPROVALS ARE NOT SECURED WILL NOT BE CONSTRUCTED.
14. A WATER OBSTRUCTION AND ENCROACHMENT US ARMY CORPS OF ENGINEERS SECTION 404 JOINT PERMIT APPLICATION IS REQUIRED FOR FILL ASSOCIATED WITH THE ACCESS ROADWAYS IN THE FLOODWAY PRIOR TO FINAL LAND DEVELOPMENT APPROVAL.
15. PER SOUTH HANOVER TOWNSHIP, CHAPTER XIV FLOODPLAIN DISTRICT, A PERMIT FOR THE FILL ASSOCIATED WITH THE ACCESS ROADWAYS IS REQUIRED PRIOR TO FINAL LAND DEVELOPMENT APPROVAL.
16. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (42043C0364D), A PORTION OF THE PROJECT SITE IS LOCATED WITHIN THE 100-YR FLOODPLAIN AND FLOODWAY.
17. THE PROJECT WILL BE SERVED BY PUBLIC SANITARY SEWER AND PUBLIC WATER.
18. ON-SITE LIMIT OF DISTURBANCE: 86.8 ACRES

STORMWATER MANAGEMENT ACCESS EASEMENT

THE OWNERS HEREBY GRANT SOUTH HANOVER TOWNSHIP AN EASEMENT AND RIGHT TO ACCESS TO INSPECT ALL OF THE STORMWATER MANAGEMENT FACILITIES AND CONTROLS AT ANY REASONABLE TIME. SOUTH HANOVER TOWNSHIP IS FURTHER HEREBY GRANTED AN EASEMENT AND RIGHT OF INGRESS AND EGRESS FOR PERSONNEL, EQUIPMENT AND MATERIALS, TO ANY AND ALL STORMWATER MANAGEMENT FACILITIES AND CONTROLS, OVER, UPON, IN, UNDER, AND THROUGH THE PROPERTY, FOR PURPOSE OF MAINTENANCE AND OR REPAIR OF THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN DUE TO FAILURE OR NEGLECT OF THE OWNER/DEVELOPER TO PERFORM THE SAME WITHIN THE REQUIRED TIME.

SOUTH HANOVER TOWNSHIP BOARD OF SUPERVISORS CERTIFICATE

APPROVED BY THE SOUTH HANOVER TOWNSHIP BOARD OF SUPERVISORS

THIS _____ DAY OF _____, 20_____.

_____ _____
CHAIRMAN SECRETARY

SOUTH HANOVER TOWNSHIP PLANNING COMMISSION CERTIFICATE

RECOMMENDED FOR APPROVAL BY THE SOUTH HANOVER TOWNSHIP PLANNING COMMISSION

THIS _____ DAY OF _____, 20_____.

_____ _____
CHAIRMAN SECRETARY

CERTIFICATE OF EQUITABLE OWNER AND ACKNOWLEDGMENT OF PLAN

COMMONWEALTH OF PENNSYLVANIA **(CORPORATE)**

COUNTY OF _____:

ON THIS, THE _____DAY OF _____, 20_____, BEFORE ME, A NOTARY PUBLIC, IN AND FOR THE COMMONWEALTH AND COUNTY AFORESAID, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED _____, KNOWN TO ME (OR SATISFACTORILY PROVEN), WHO ACKNOWLEDGED HIMSELF TO BE THE _____ OF _____ AND THAT HE AS SUCH _____, BEING AUTHORIZED TO DO SO, ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

_____
SIGNATURE OF IDENTIFYING OWNER

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEAL.

_____
NOTARY PUBLIC

REVIEWED BY THE SOUTH HANOVER TOWNSHIP ENGINEER

REVIEWED BY THE SOUTH HANOVER TOWNSHIP ENGINEER

SIGNATURE:_____

DATE_____, 20_____.

SURVEY CERTIFICATE

I, _____, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THE BOUNDARY AND TOPOGRAPHICAL SURVEY DESCRIBED HEREON IS TRUE AND CORRECT, NOT HAVING AN ERROR OF CLOSURE NOT EXCEEDING ONE (1) FOOT IN TEN THOUSAND (10,000) FEET AND HAVE BEEN PREPARED TO THE ACCURACY REQUIRED BY THE GOVERNING ORDINANCES OF SOUTH HANOVER TOWNSHIP, LOCATED IN DAUPHIN COUNTY, PENNSYLVANIA.

SCOTT W. AKENS P.E., P.L.S.
219 E. MAIN ST.
SHIREMANSTOWN, PA 17011

_____ _____
SURVEYOR SU------ DATE

CERTIFICATE OF OWNER AND ACKNOWLEDGMENT OF PLAN

COMMONWEALTH OF PENNSYLVANIA **(CORPORATE)**

COUNTY OF _____:

ON THIS, THE _____DAY OF _____, 20_____, BEFORE ME, A NOTARY PUBLIC, IN AND FOR THE COMMONWEALTH AND COUNTY AFORESAID, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED _____, KNOWN TO ME (OR SATISFACTORILY PROVEN), WHO ACKNOWLEDGED HIMSELF TO BE THE _____ OF _____ AND THAT HE AS SUCH _____, BEING AUTHORIZED TO DO SO, ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

_____
SIGNATURE OF IDENTIFYING OWNER

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEAL.

_____
NOTARY PUBLIC

DAUPHIN COUNTY PLANNING COMMISSION CERTIFICATE

RECOMMENDED FOR APPROVAL BY THE DAUPHIN COUNTY PLANNING COMMISSION

THIS _____ DAY OF _____, 20_____.

_____ _____
CHAIRMAN SECRETARY

DAUPHIN COUNTY RECORDER OF DEEDS CERTIFICATE

THIS PLAN RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS IN DAUPHIN COUNTY,

THIS _____ DAY OF _____ 20_____.

INSTRUMENT No. _____

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
C001	COVER SHEET
C002	GENERAL INFORMATION
C101	EXISTING CONDITIONS & DEMOLITION PLAN
C201-C204	SITE LAYOUT PLAN
C301-C303	GRADING & STORMWATER PLAN
C401-C403	UTILITY PLAN
C501-C504	STORMWATER PROFILE PLAN
C505-C507	SANITARY PROFILE PLAN
C601	LANDSCAPE PLAN
C801-C804	DETAILS
C901	EASEMENT PLAN

REV	DATE	ISSUE / REVISIONS	BY	CHKD
1	07.10.2024	INITIAL SUBMISSION	CRP	CMJ

LIVIC civil
1029 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987-1993
www.liviccivil.com

ALL CONTENTS OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE REPRODUCED OR UTILIZED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM LIVIC CIVIL, LLC. ONLY APPROVED, SEALED PLANS SHALL BE IMPLEMENTED FOR CONSTRUCTION PURPOSES.
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PROJECT No:	1190-04
DATE:	JULY 10, 2024
SCALE:	AS SHOWN
DRAWN BY: CRP	CHECKED BY: CMJ

PROJECT
HUMMELSTOWN QUARRY - INDUSTRIAL PARK
SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT
HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE
COVER SHEET

SHEET NO.
C001

GENERAL CONSTRUCTION NOTES

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON EXISTING MAPPING RECORDS AND/OR EVIDENCE OF ABOVE GROUND FACILITIES. THE EXACT LOCATION (HORIZONTAL & VERTICAL) OR ACCURACY THERE OF IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND LOCATIONS OF ANY AND ALL UTILITIES WHICH FALL WITHIN OR ADJACENT TO THE LIMITS OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY DAMAGED UTILITY THAT OCCURS DURING CONSTRUCTION, AT THEIR EXPENSE. THE CONTRACTOR IS REQUIRED TO COMPLETE THEIR UTILITY NOTIFICATIONS PER STATE LAW AND FOLLOW ANY AND ALL REGULATIONS.
2. THE CONTRACTOR IS TO NOTIFY OWNER/ENGINEER, IN WRITING, OF ANY UTILITY CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR THE ADJUSTMENT OR RELOCATION OF UTILITY SURFACE FEATURES, I.E. VALVE BOXES, UTILITY POLES, MANHOLES, ETC. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
3. THE OWNER SHALL PREPARE AND EXECUTE NECESSARY UTILITY EASEMENTS FOR PROPOSED RELOCATED UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS BY THE UTILITY OWNER.
4. EXISTING INFORMATION AND FEATURES SHOWN ON THIS SITE PLAN WERE TAKEN FROM A SURVEY PREPARED BY AKENS ENGINEERING ASSOCIATES, INC., DATED JANUARY 22, 2024.
5. LIVIC CIVIL DOES NOT CERTIFY OR HAS MADE ANY ADDITIONAL INVESTIGATION OF CHAIN OF TITLE SEARCH REGARDING ANY SUCCESSORS, ASSIGNING OR HEIRS OF EASEMENTS, ENCUMBRANCES, COVENANTS, OWNERSHIPS OR SUCH THAT A TITLE SEARCH MAY DISCLOSE, OTHER THAN WHAT IS SHOWN ON THIS PLAN.
6. THERE IS ONE NAVIGABLE STREAM (SWATARA CREEK) WITHIN THE PROJECT LIMITS.
7. BASED ON A PENNSYLVANIA NATURAL DIVERSITY INDEX SEARCH, THERE IS A BALD EAGLE HABITAT WITHIN THE PROJECT SITE. ALL MEASURES HAVE BEEN TAKEN INTO CONSIDERATION TO AVOID DISTURBANCE WITHIN A 650 FT. RADIUS.
8. A PennDOT HIGHWAY OCCUPANCY PERMIT IS REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P.L. 1242 NO. 428), KNOWN AS THE "STATE HIGHWAY LAW", BEFORE ANY CONSTRUCTION OF DRIVEWAY IMPROVEMENTS OCCUR.
9. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED IMPROVEMENTS AS SHOWN HEREON IN ACCORDANCE WITH THE REQUIREMENTS OF THE ISSUED HIGHWAY OCCUPANCY PERMIT AND ANY DIRECTIVES FROM PennDOT OR THE MUNICIPALITY TO OBTAIN FINAL APPROVAL OF THE WORK AND CLOSING OF THE PERMIT.
10. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL BENCH MARKS AND CONTROL POINTS DURING CONSTRUCTION. CONTRACTOR SHOULD SET ADDITIONAL CONTROL AS DEEMED APPROPRIATE.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE, REVIEW AND UNDERSTAND THE PLAN AND SPECIFICATIONS AND VERIFY ALL FIELD CONDITIONS, DIMENSIONS, DRAWINGS AND SPECIFICATIONS. ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE PROJECT'S OWNER IN WRITING. WORK COMPLETED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES, WITHOUT RECEIVING A RESPONSE FROM THE PROJECT'S OWNER, SHALL BE DONE AT THE CONTRACTOR'S RISK.
12. THE CONTRACTOR SHALL COMPLETE THEIR UTILITY NOTIFICATIONS PER STATE LAW. CONTRACTOR IS TO NOTIFY OWNER/ENGINEER, IN WRITING, OF ANY UTILITY CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL OTHER APPLICABLE TRADES (SITE, STRUCTURAL, PLUMBING, ELECTRICAL, ETC.) AS REQUIRED.
14. THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS.
15. THE CONTRACTOR AND ANY SUBCONTRACTORS SHALL BE NOTIFIED THAT THEY ARE REQUIRED TO COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), WHICH APPLY TO ALL PHASES OF CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH SAFETY, COVERING, PLATING, SHEETING, SHORING AND SHORING DESIGN AS NEEDED.
17. THIS PLAN IS NOT INTENDED TO REPRESENT ANY SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF BEDROCK OR OTHER GEOLOGICAL CONDITIONS.
18. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE SAFE FLOW OF TRAFFIC DURING CONSTRUCTION. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH PennDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES", AS AMENDED.
19. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL REQUIRED NOTIFICATIONS AS SPECIFIED ON SUPPLIED PERMIT OF PERMIT PLANS. THIS INCLUDES MUNICIPALITIES, CONSERVATION DISTRICTS, PADEP, PennDOT AND OTHER REGULATORY AGENCIES.
20. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR THE ADJUSTMENT OR RELOCATION OF UTILITY SURFACE FEATURES, I.E. VALVE BOXES, UTILITY POLES, MANHOLES, ETC. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
21. CONSTRUCTION IS TO BE BASED ON ACTUAL FIELD STAKING OF IMPROVEMENTS BY A REGISTERED PROFESSIONAL ENGINEER. ANY DEVIATIONS FROM THE STAKEOUT OR PLAN SHALL NOT BE PERMITTED WITHOUT APPROVAL.
22. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE ACROSS ALL GRADED AREAS IS PROVIDED AND NO LOW SPOTS OR PONDING OCCUR WITHIN THE LIMITS OF WORK UNLESS NATURALLY OCCURRING.
23. ALL EXISTING SIGNS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REINSTALLED IMMEDIATELY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
24. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING MEASURES TO PREVENT DAMAGE TO ALL EXISTING FEATURES (TO REMAIN) WITHIN THE PROJECT LIMITS AND ALONG ADJACENT PROPERTIES.
25. ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION, THAT ARE NOT TO BE PAVED OR HAVE SPECIFIC RESTORATION DETAILS, SHALL BE RESTORED WITH A MINIMUM SIX (6") INCHES OF TOPSOIL AND SEEDED AND MULCHED.
26. PER PennDOT PUBLICATION 408, SECTION 409.3-CONSTRUCTION, NO BITUMINOUS PAVEMENT WILL BE PLACED BETWEEN NOVEMBER 1 AND MARCH 31, UNLESS AN EXTENSION OF THE PAVING SEASON IS GRANTED IN WRITING BY THE DISTRICT EXECUTIVE. ALL ASPHALT TO ASPHALT AND ASPHALT TO CONCRETE JOINTS SHALL BE SEALED IN ACCORDANCE WITH PUB 408, SECTION 409.3(k)3.
27. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT THE WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY WHILE PROTECTING THE ADJOINING PROPERTY FROM DAMAGE. THE CONTRACTOR SHALL KEEP THE WORK AREA FREE OF ACCUMULATION OF WASTE MATERIAL. THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FROM THE PROJECT SITE, AS WELL AS ALL TOOLS, EQUIPMENT AND SURPLUS MATERIAL.
28. ALL STORMWATER MANAGEMENT FACILITIES AND BMPs SHALL BE PERMANENT FIXTURES AND CANNOT BE MODIFIED WITHOUT PRIOR APPROVAL OF THE MUNICIPALITY AND COUNTY CONSERVATION DISTRICT. MODIFICATION, REMOVAL, FILING, LANDSCAPING, OR ALTERING ANY STORMWATER FACILITY, BMP OR EASEMENT, SHALL BE OTHERWISE PROHIBITED.
29. THE DESIGNATION OF EXCESS WASTE DISPOSAL AND CONSTRUCTION STAGING AREAS, WHICH MAY BE REQUIRED BUT ARE NOT SHOWN ON THE PLANS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONSTRUCTION WASTE AND DEBRIS, INCLUDING EXCESS EXCAVATED MATERIAL, ASPHALT, CONCRETE, SCRAP WOOD, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
30. ALL TRENCHING SHALL OCCUR AS DESIGNATED BY THE PLANS. THE CONTRACTOR SHALL USE EQUIPMENT APPROPRIATE TO MAINTAIN A MAXIMUM PAVEMENT OPENING. IF A REVISED TRENCHING METHOD OR ALIGNMENT IS PROPOSED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY.
31. ALL EXCAVATIONS SHALL BE KEPT DRY TO PROTECT THEIR INTEGRITY. A SEDIMENT FILTER BAG OR EQUAL IMPLEMENTATION OF FILTERING IS REQUIRED BEFORE DISCHARGING.
32. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED, RELOCATED WHEN NECESSARY AND SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT. THE CONTRACTOR SHALL CHECK SEEDED AREAS REGULARLY. THESE AREAS SHALL BE WATERED, FERTILIZED, RESEED AND MULCHED AS NECESSARY, TO OBTAIN STABILIZED COVER.
33. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. RE-GRADING, STRIPPING OF VEGETATION AND ANY OTHER WORK, SHALL BE DONE IN A MANNER TO MINIMIZE EROSION. EROSION AND SEDIMENT CONTROL BMPs REQUIRED BY THE CONSERVATION DISTRICT SHALL BE INSTALLED BY THE CONTRACTOR. SHOULD SEDIMENTATION OCCUR, IT IS THE RESPONSIBILITY OF THE ENTITY CAUSING THE SEDIMENTATION TO REMOVE IT FROM ANY AFFECTED AREAS. ANY DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY. TEMPORARY VEGETATION AND/OR MULCHING MAY BE UTILIZED TO PROTECT EXPOSED CRITICAL AREAS DURING CONSTRUCTION. DUST CONTROL MEASURES SHOULD BE EXERCISED DURING THE ENTIRETY OF CONSTRUCTION.
34. THE FINAL LAND DEVELOPMENT PLAN, ON ITS OWN, MAY NOT BE SUITABLE FOR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO VERIFY WITH THE OWNER/PROJECT ENGINEER IF SUPPLEMENTAL INFORMATION IS REQUIRED ON ANY LAND DEVELOPMENT PLANS PRIOR TO ISSUANCE OF BIDDING AND CONSTRUCTION.
35. THE INFORMATION SHOWN ON THIS PLAN MAY HAVE ALSO BEEN RELEASED IN A DIGITAL DRAWING FORMAT. ONCE LIVIC CIVIL HAS RELEASED SUCH INFORMATION, WE TAKE NO RESPONSIBILITY OF ANY CHANGES THAT MAY OCCUR. THE ORIGINAL SEALED PLANS SHOULD BE REFERENCED TO ANY REPRODUCED MATERIAL THAT MAY BE VIEWED. ALSO ANY DIGITAL FILES OR DATA CONTAINED WITHIN, BEING USED WILL COME AT THE RISK OF THE USER.

ABBREVIATIONS

BOTTOM OF CURB	BC
BOTTOM OF WALL	BW
HIGH POINT	HP
TO BE REMOVED	TBR
TOP OF CURB	TC
TOP OF WALL	TW
TYPICAL	TYP

LEGEND

	EXISTING	PROPOSED
PLAN TEXT	*PLAN TEXT*	PLAN TEXT
BENCHMARK		
BUILDING LINE		
BUILDING SETBACK		
CENTER LINE OF ROAD		
CONCRETE CURB		
CONCRETE SIDEWALK		
CONTOUR LINE-MAJOR	*100*	100
CONTOUR LINE-MINOR		
EASEMENT LINE		
EDGE OF PAVEMENT		
EDGE OF WATER		
FENCE LINE	X	X
FIRE HYDRANT		
GRAVEL		
GUIDE RAIL		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
SIGN		
OVERHEAD UTILITIES & POLE	*OH*	OH
UNDERGROUND ELECTRIC	*UE*	UE
GAS MAIN/VALVE	*G*	G
DATA/COMMUNICATION	*0*	0
WATER MAIN/VALVE	*W*	W
SEWER FORCE MAIN	*FM*	FM
SANITARY SEWER	*S*	S
STORM SEWER/INLET		
MANHOLE		
NPDES PERMIT BOUNDARY		NPDES
LIMIT OF DISTURBANCE		LOD
SOIL BOUNDARY		
SOIL DESIGNATOR		WsB
WATER		
WETLAND		
FLOODWAY		
FLOODPLAIN		

ZONING REQUIREMENTS

THE FOLLOWING INFORMATION HAS BEEN OBTAINED FROM THE SOUTH HANOVER TOWNSHIP ZONING ORDINANCE
27-1109 IP - INDUSTRIAL PARK DISTRICT

- BUILDINGS OR USES
  - WAREHOUSING
    - BUILDING 1A - 225,680 SQ.FT.
    - BUILDING 1B - 225,680 SQ.FT.
    - BUILDING 2 - 501,960 SQ.FT.

	REQUIRED	PROPOSED
❖ LOT REQUIREMENTS		
LOT AREA	15 ACRE MIN.	252.26 ACRES
LOT COVERAGE	65% MAX. (163.97 ACRES)	21% (52.97 ACRES)
OPEN AREA	35% MIN. (88.29 ACRES)	79% (199.29 ACRES)
❖ BUILDING SETBACKS		
PERIMETER STREET	75'(PUBLIC)/50'(INTERNAL)	> 50'
SIDE	100(R)/50'	> 100'(R)/50'
REAR	100'	> 100'
❖ LANDSCAPE BUFFER	30'	> 30'
❖ BUILDING HEIGHT	40'	40' MAX

- REQUIRED PARKING SPACES = 1 FOR EACH 1,000 SQUARE FEET OF FLOOR AREA PLUS 1 SPACE FOR EACH 2 EMPLOYEES IN A MAXIMUM WORKING SHIFT. THE TOTAL PARKING AREA SHALL BE LESS THAN 25% OF THE FLOOR AREA.

  TOTAL BUILDING FLOOR AREA = 953,320 SQ.FT. (953 PARKING SPACES)
  EMPLOYEES ON MAX SHIFT = 360 (180 PARKING SPACES)
  TOTAL PARKING SPACES REQUIRED = 1,133 SPACES

  TOTAL PARKING SPACES PROVIDED = 1,220 SPACES

REV	DATE	COMMENTS	BY	CHKD
1	07.10.2024	INITIAL SUBMISSION	CRP	CMJ

ISSUE / REVISIONS

LIVIC civil
1029 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987-1993
www.liviccivil.com

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PROJECT No:	1190-04
DATE:	JULY 10, 2024
SCALE:	AS SHOWN
DRAWN BY: CRP	CHECKED BY: CMJ

PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP DAUPHIN COUNTY PENNSYLVANIA

CLIENT

HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

GENERAL INFORMATION

SHEET NO.

C002

LEGEND

TBR TO BE REMOVED

CONTROL POINTS				
DESCRIPTION	ELEVATION	NORTHING	EASTING	DISTANCE TO NEAREST STREET CROSSING
CP1	413.38'	345942.54	2264388.79	640'
CP2	355.58'	345774.77	2263318.43	1930'
CP3	338.30'	345616.00	2262870.97	2405'
CP4	491.36'	345821.51	2259852.03	15'
MAG SPIKE 1	370.73'	345360.53	2261638.59	3685'
MAG SPIKE 2	494.95'	347889.13	2259567.56	120'
MAG SPIKE 3	491.53'	345628.41	2258852.02	15'
MAG SPIKE 4	324.32'	345689.25	2262992.02	2265'
MAG SPIKE 5	327.89'	345618.02	2263008.01	2272'
MAG SPIKE 6	319.28'	345693.64	2263232.03	2046'
MAG SPIKE 7	322.44'	345765.48	2263358.08	2034'

250 0 250 500 FT

HORIZONTAL SCALE: 1 INCH = 250 FEET

PREMISE A: LOT NO. 2 LINE TABLE			PREMISE A: LOT NO. 2 CURVE TABLE			
LINE #	LENGTH	DIRECTION	CURVE #	LENGTH	RADIUS	DELTA
L1	232.56'	N87° 35' 35"E	C1	37.73	970.00	2.23
L2	470.89'	N30° 47' 47"W	C3	39.04	70.00	31.95
L3	74.68'	N61° 58' 32"E	C5	153.57	234.63	37.50
L4	182.58'	N7° 58' 48"E	C6	113.05	256.48	25.25
L5	275.88'	N6° 59' 25"W				
L6	104.36'	N19° 46' 47"W				
L7	469.74'	N84° 46' 09"E				
L8	2.31'	N89° 14' 47"E				
L9	269.14'	N89° 59' 39"E				
L10	282.22'	S54° 35' 49"W				
L11	493.91'	S18° 50' 20"E				
L12	61.09'	N83° 13' 52"E				
L13	79.96'	S60° 16' 47"E				
L14	245.18'	S5° 54' 39"W				
L15	483.96'	N84° 20' 41"E				
L16	333.85'	N83° 01' 23"E				
L17	333.71'	N72° 55' 49"E				
L18	338.06'	N11° 58' 22"E				
L19	272.82'	N8° 50' 41"W				
L20	177.08'	N27° 29' 59"E				
L21	140.55'	N66° 06' 57"E				
L22	764.91'	S37° 24' 14"E				
L23	210.91'	S47° 49' 25"E				
L24	133.01'	S56° 15' 54"E				
L25	318.31'	S32° 49' 13"E				
L26	538.27'	S1° 31' 04"W				
L27	196.10'	S74° 42' 37"W				
L28	308.74'	S26° 48' 16"W				
L29	764.08'	S29° 00' 37"W				
L30	537.11'	S35° 17' 30"W				
L31	306.35'	S39° 54' 26"W				
L32	333.17'	S56° 37' 07"W				
L33	525.05'	S89° 20' 42"W				
L34	385.71'	N48° 43' 15"W				
L35	889.67'	N55° 24' 01"W				
L36	355.04'	N70° 28' 13"W				
L37	159.29'	S67° 15' 30"W				
L38	926.76'	S37° 07' 44"W				
L39	298.87'	S37° 58' 57"W				
L40	355.67'	S38° 09' 27"W				
L41	118.09'	N38° 19' 57"W				
L42	304.55'	N45° 32' 54"E				
L43	258.80'	N39° 29' 58"W				
L44	86.18'	S76° 15' 27"W				
L45	285.30'	N27° 06' 44"W				
L46	29.95'	S62° 53' 16"W				
L47	10.00'	N27° 06' 44"W				
L48	138.50'	S62° 53' 16"W				
L49	30.00'	N27° 06' 44"W				
L50	138.50'	N62° 53' 16"E				
L51	270.00'	N27° 06' 44"W				
L52	199.71'	N27° 06' 44"W				
L53	400.49'	N26° 24' 35"W				
L54	139.28'	S64° 08' 16"W				
L55	50.12'	N21° 59' 06"W				
L56	132.07'	N64° 08' 16"E				
L57	116.71'	N28° 27' 43"W				
L58	256.83'	N27° 45' 46"W				
L59	99.92'	N25° 40' 51"W				
L60	100.28'	N8° 45' 13"E				
L61	47.34'	N87° 42' 28"E				
L62	33.06'	N7° 37' 37"W				
L63	140.44'	N82° 22' 17"E				
L64	349.55'	N74° 21' 48"E				
L65	216.00'	N15° 40' 21"W				
L66	30.28'	N68° 50' 43"E				
L67	218.89'	S15° 40' 21"E				
L68	519.83'	N73° 50' 37"E				
L69	142.39'	N51° 25' 10"E				
L70	100.92'	N59° 52' 00"E				
L71	230.63'	N70° 01' 34"E				
L72	140.00'	N18° 10' 51"W				
L73	40.00'	N71° 49' 21"E				
L74	140.00'	S18° 10' 51"E				
L75	106.93'	N74° 49' 28"E				
L76	126.71'	N20° 28' 41"W				
L77	302.48'	N65° 39' 18"E				
L78	492.69'	N67° 53' 02"E				
L79	132.47'	S80° 09' 55"E				
L80	101.83'	N62° 20' 35"E				

LIVIC civil
1029 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987-1993
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ISSUE / REVISIONS				
REV	DATE	COMMENTS	BY	CHKD
1	07.10.2024	INITIAL SUBMISSION	CRP	CMJ

PROJECT No:	1190-04
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DRAWN BY: CRP	CHECKED BY: CMJ

PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

HCI DP LAND ACQUISITION LLC

1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

EXISTING CONDITIONS & DEMO PLAN

SHEET NO.

C101

LEGEND

- HEAVY DUTY BITUMINOUS PAVEMENT
- STANDARD BITUMINOUS PAVEMENT
- REINFORCED CONCRETE PAVEMENT

GRANDVIEW DRIVE

PREMISES B
Mumma Realty Associates
Part Of Tract #2
Record Book 872, Page 038
Plan Book 3-J, Page 30
Tax Parcel 56-016-004
Zoned: Residential Cluster & Floodplain
GROSS AREA = 3,685,430 sq. ft. / 84.70 ac.
LCSR R/W AREA = 437,881 sq. ft. / 10.05 ac.
NET AREA = 3,625,449 sq. ft. / 83.23 ac.

PREMISES A
G-A-T Distribution Corporation
Part Of Record Book 2854, Page 603
Lot # 1, Plan Book D, Volume 6, Page 80
Tax Parcel 56-016-124
Zoned: Residential-Cluster & Floodplain
AREA = 3,446,703 Sq. Ft. / 79.13 Ac.

WETLAND AREAS "C,D&E"
16,444 SQ.FT.

WETLAND AREA "A"
6,236 SQ.FT.

POND

N/F
William H. & Marion C.
Ajemian
Record Book 2854, Page 609
Lot 2, Plan Book K-6, Page 64
Tax Parcel 56-016-125

PREMISES A
G-A-T Distribution Corporation
Part Of Record Book 2854, Page 603
Lot # 1, Plan Book D, Volume 6, Page 80
Tax Parcel 56-016-124
Zoned: Residential-Cluster & Floodplain
AREA = 3,446,703 Sq. Ft. / 79.13 Ac.

PREMISES A
G-A-T Distribution Corporation
Part Of Record Book 2854, Page 603
Lot # 1, Plan Book D, Volume 6, Page 80
Tax Parcel 56-016-124
Zoned: Residential-Cluster & Floodplain
AREA = 3,446,703 Sq. Ft. / 79.13 Ac.

Residential Cluster (C)
Residential Urban (R-U)

THOMAS STREET (T-324)
LEONARD STREET (T-327)
ARTHUR STREET (T-328)
WAGNER STREET (T-323)
Rossmoyne Road (T-322)

CAR PARKING = 300

CAR PARKING = 306

BUILDING 1b
225,680 SQ.FT.
F.F.E.=369.00
TRUCK PARKING = 40
CAR PARKING = 158
LOADING DOCKS = 35

BUILDING 1a
225,680 SQ.FT.
F.F.E.=369.00
TRUCK PARKING = 40
CAR PARKING = 142
LOADING DOCKS = 35

BUILDING 2
501,960 SQ.FT.
F.F.E.=398.25
TRUCK PARKING = 134
CAR PARKING = 260
LOADING DOCKS = 104

C203/C302

C202/C301

C204/C303

C204/C303

QUARRY
WATER SURFACE ELEVATION = 313.10

TREELINE

S.R.A.T.R.A.I.L.

PENNSY SUPPLY ROAD ACCESS LOCATED IN DERRY TOWNSHIP. SEE GENERAL NOTES, NOTE 11, ON COVER SHEET.

N/F
MILTON HERSHEY SCHOOL
TAX PARCEL # 24-008-030

N/F
MILTON HERSHEY SCHOOL
TAX PARCEL # 24-008-001

N/F
HERSHEY ENTERTAINMENT & RESORTS COMPANY
TAX PARCEL # 24-009-053

HERSHEY PARK DRIVE (S.R. 4039)

N/F
THE HERSHEY COMPANY
TAX PARCEL # 24-009-026

250 0 250 500 FT
HORIZONTAL SCALE: 1 INCH = 250 FEET

REV	DATE	ISSUE / REVISIONS	BY	CHKD
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LIVIC civil
1029 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987-1993
www.liviccivil.com

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PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C201

LEGEND

- HEAVY DUTY BITUMINOUS PAVEMENT
- STANDARD BITUMINOUS PAVEMENT
- REINFORCED CONCRETE PAVEMENT

100' SIDE SETBACK

75' CLEAR SIGHT TRIANGLE (TYP)
SEE DETAIL SHEET C804

Residential Cluster (R-C)
Industrial Park (I-P)

WETLAND AREA 'A'
45,109.00 FT²

Rebar Fnd

100' SIDE SETBACK

30' LANDSCAPE BUFFER

36'
60'
9'
24'
18'
24'
60'
9'
24'

PUMP STATION #1

CONCRETE VERTICAL CURB, 6" REVEAL

50' PERIMETER STREET SETBACK

100' SIDE SETBACK

36'

BUILDING 1a
225,680 SQ.FT.
F.F.E.=369.00
TRUCK PARKING = 40
CAR PARKING = 142
LOADING DOCKS = 35

BUILDING 1b
225,680 SQ.FT.
F.F.E.=369.00
TRUCK PARKING = 40
CAR PARKING = 158
LOADING DOCKS = 35

40'

60'
14'
70'
12'
55'

60'
14'
70'
12'
55'

CONCRETE VERTICAL CURB, 6" REVEAL

RETAINING WALL, 5' MAX HEIGHT 115 LF

RETAINING WALL, 5' MAX HEIGHT 115 LF

CONCRETE VERTICAL CURB, 6" REVEAL

QUARRY
WATER SURFACE ELEVATION = 313.10

SWATARA CREEK

SUSQUEHANNA TOWNSHIP

HUMMELSTOWN

100' SIDE SETBACK

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

N

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HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

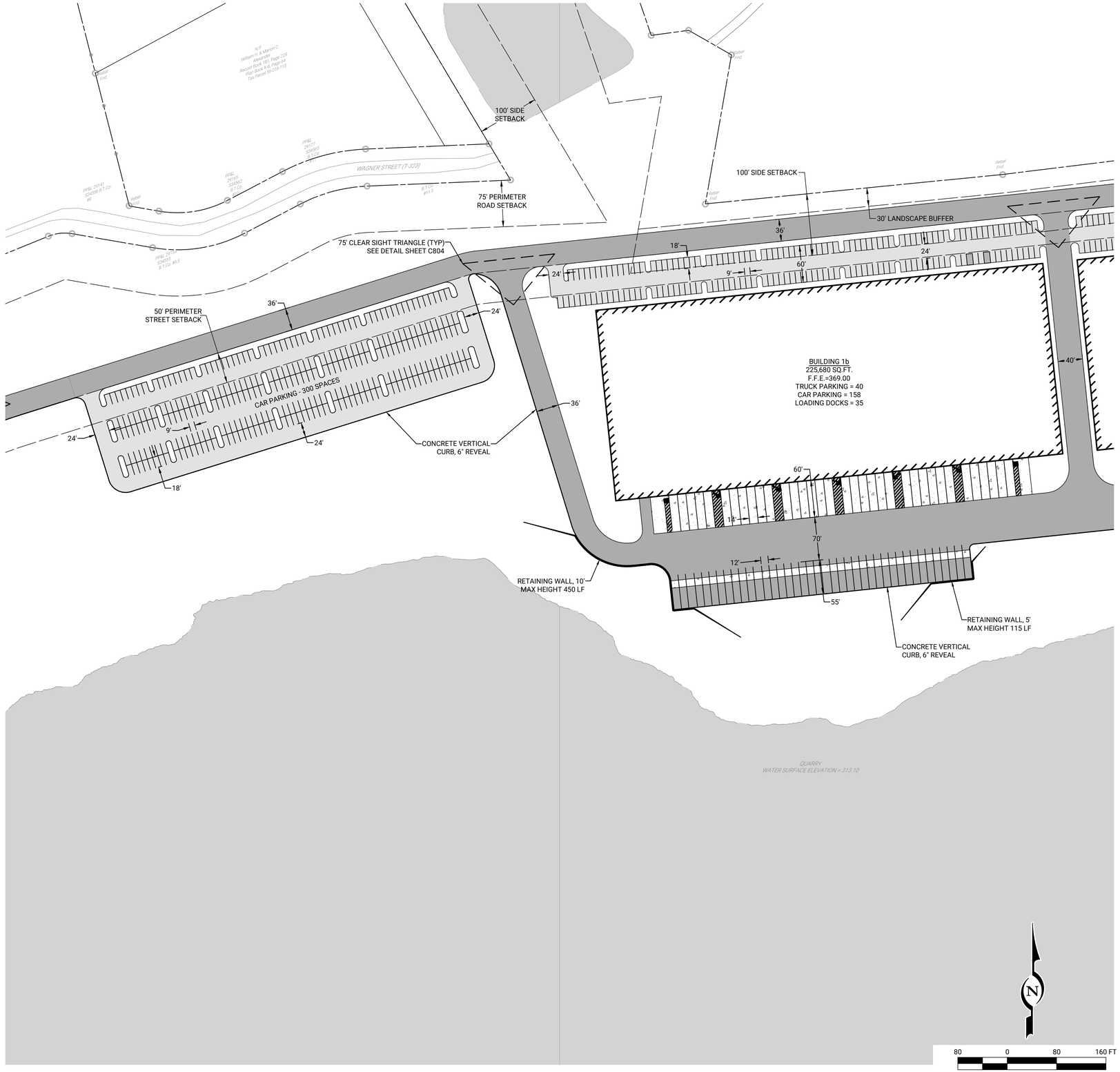
SITE LAYOUT PLAN

SHEET NO.

C202

LEGEND

- HEAVY DUTY BITUMINOUS PAVEMENT
- STANDARD BITUMINOUS PAVEMENT
- REINFORCED CONCRETE PAVEMENT



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SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

HCI DP LAND ACQUISITION LLC

1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C203

LEGEND

- HEAVY DUTY BITUMINOUS PAVEMENT
- STANDARD BITUMINOUS PAVEMENT
- REINFORCED CONCRETE PAVEMENT

WAGNER STREET (T-323)

30' LANDSCAPE BUFFER

100' SIDE SETBACK

RETAINING WALL, 18' MAX HEIGHT 390 LF

RETAINING WALL, 7' MAX HEIGHT 370 LF

RETAINING WALL, 7' MAX HEIGHT 170 LF

75' PERIMETER ROAD SETBACK

30' LANDSCAPE BUFFER

30'

50' PERIMETER STREET SETBACK

36'

18'

24'

9'

120'

24'

CAR PARKING - 174 SPACES

CONCRETE VERTICAL CURB, 6" REVEAL

24'

CAR PARKING - 306 SPACES

24'

18'

9'

24'

75' CLEAR SIGHT TRIANGLE (TYP) SEE DETAIL SHEET C804

CONCRETE VERTICAL CURB, 6" REVEAL

RETAINING WALL, 14' MAX HEIGHT 840 LF

12'

14'

14'

12'

36'

55'

75'

55'

BUILDING 2
501,960 SQ.FT.
F.F.E.=398.25
TRUCK PARKING = 134
CAR PARKING = 260
LOADING DOCKS = 104

RETAINING WALL, 30' MAX HEIGHT 517 LF

GRANDVIEW DRIVE SR 2021

Residential/Home Based Business (R-1)

9'

60'

CAR PARKING - 86 SPACES

18'

36'

CONCRETE VERTICAL CURB, 6" REVEAL

30' LANDSCAPE BUFFER

100' SIDE SETBACK

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COMMENTS

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HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

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SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C204



REV	DATE	COMMENTS	BY	CHKD
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PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

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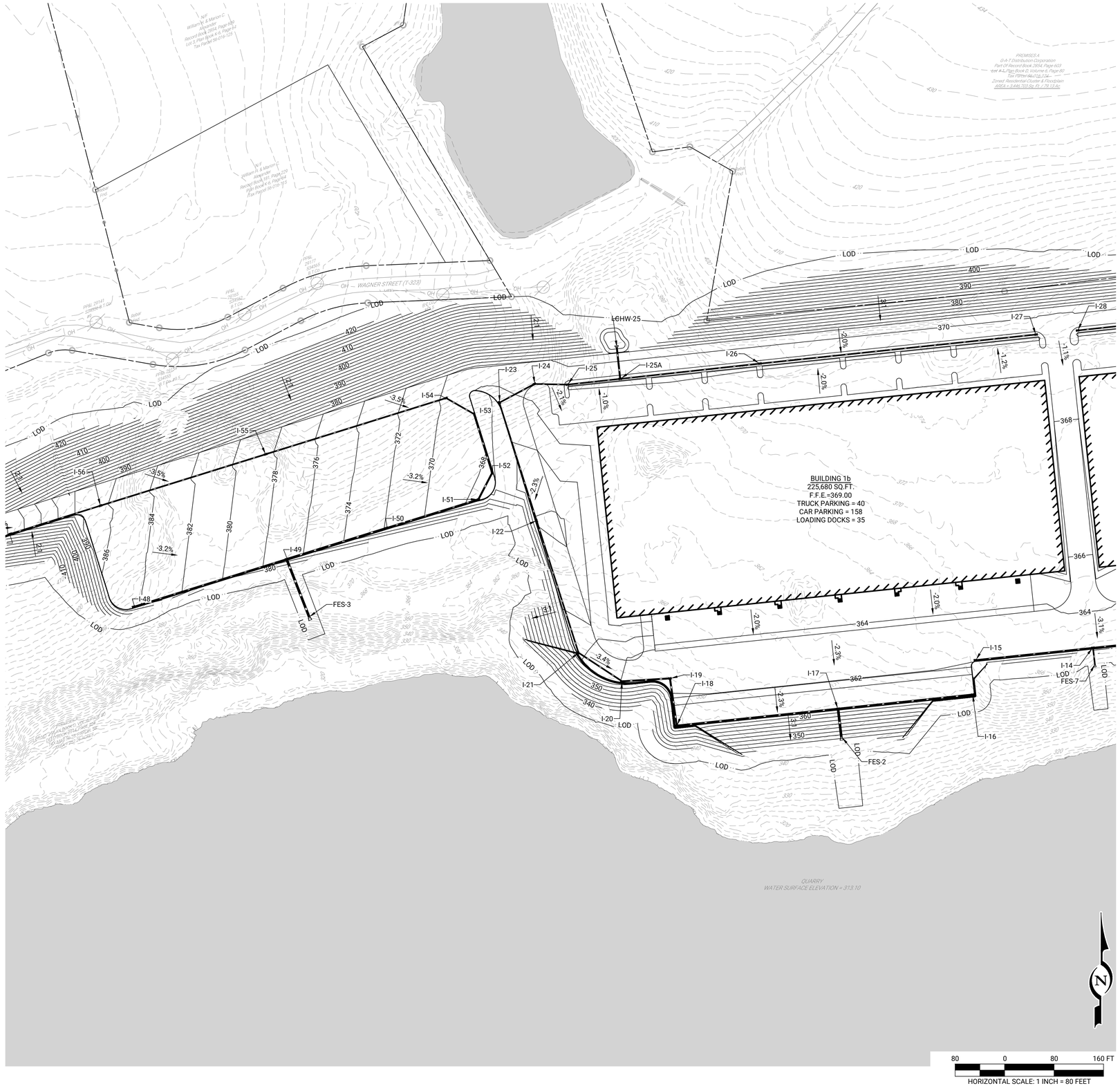
HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C301



REV	DATE	ISSUE / REVISIONS	BY	CHKD
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PENNSYLVANIA

CLIENT

HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C302



REV	DATE	ISSUE / REVISIONS	COMMENTS	BY	CHKD
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HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

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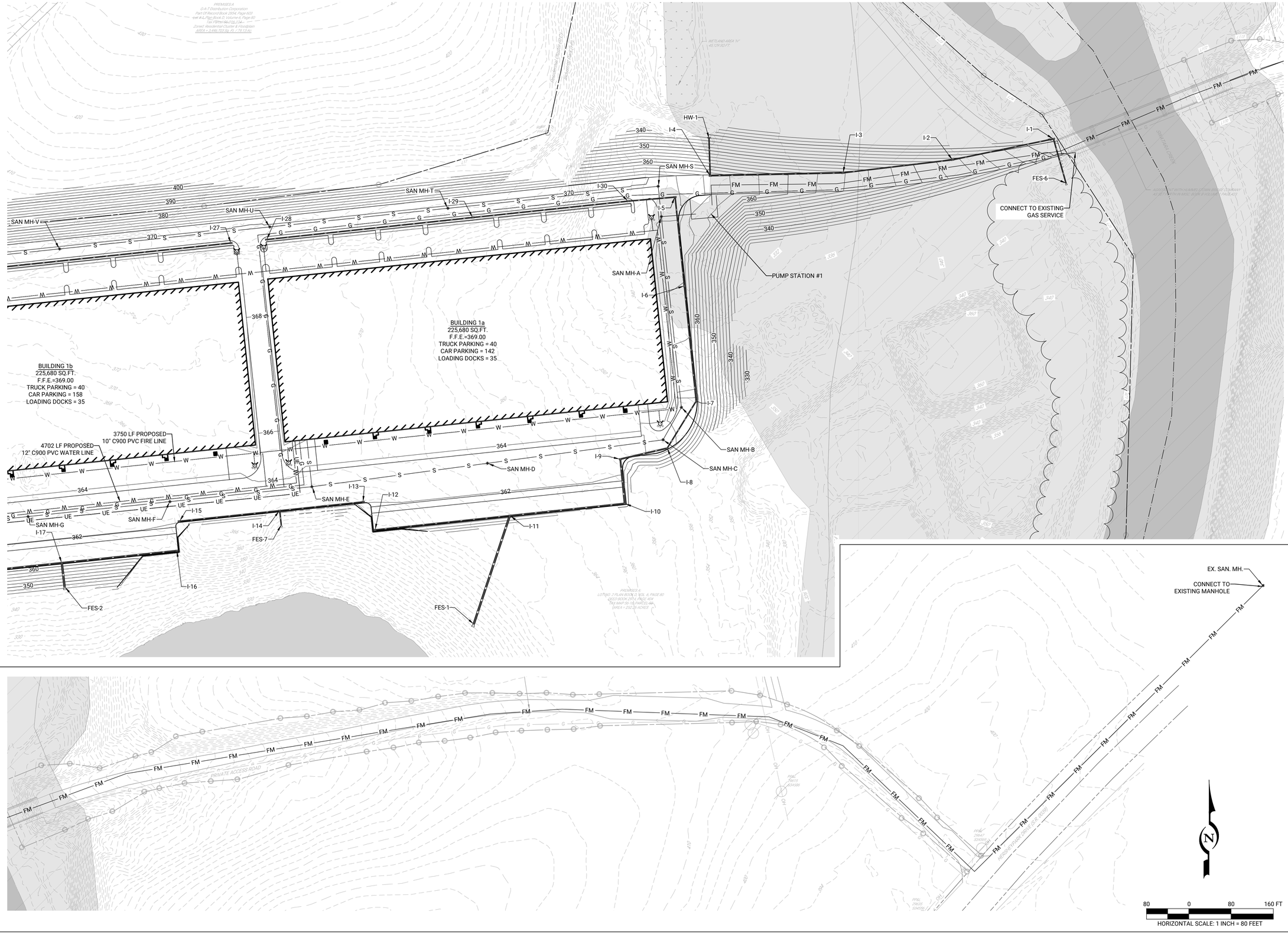
HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C303



REV	DATE	ISSUE / REVISIONS	BY	CHKD
1	07.10.2024	INTIAL SUBMISSION	CRP	CMJ
		COMMENTS		

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2ND FLOOR
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HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

HCI DP LAND ACQUISITION LLC

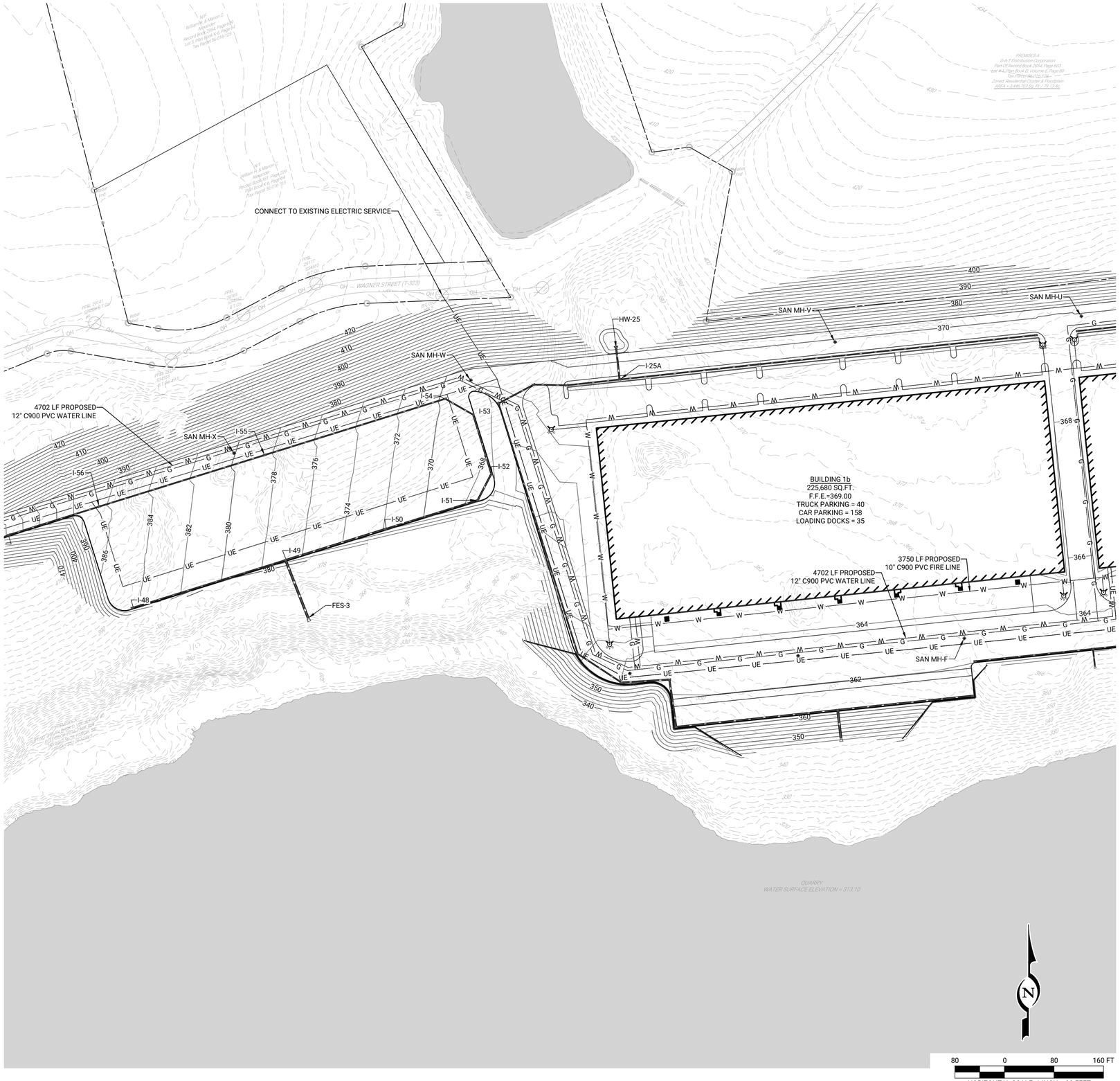
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HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

UTILITY PLAN

SHEET NO.

C401



REV	DATE	COMMENTS	BY	CHKD
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PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

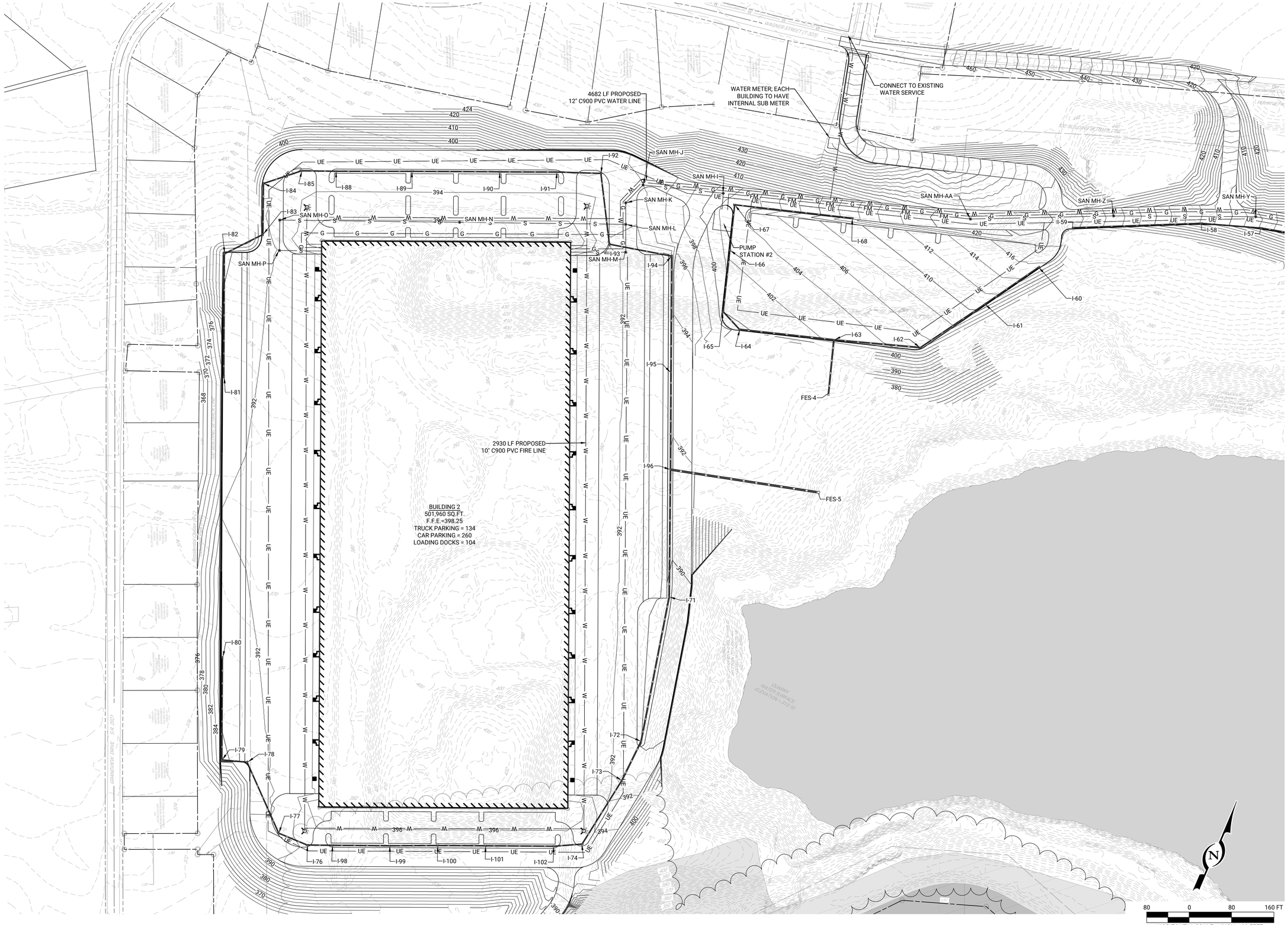
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PHONE: (240) 503-6522

SHEET TITLE

UTILITY PLAN

SHEET NO.

C402



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SOUTH HANOVER TOWNSHIP
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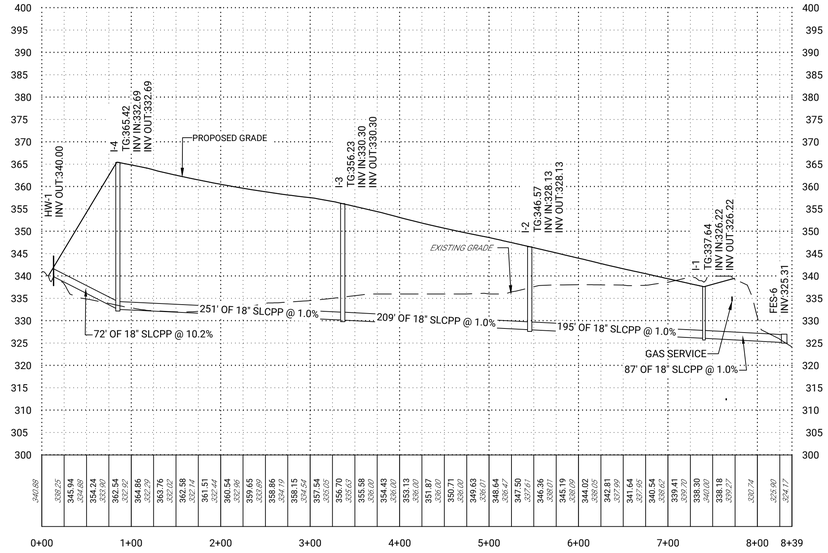
HCI DP LAND ACQUISITION LLC
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SHEET TITLE

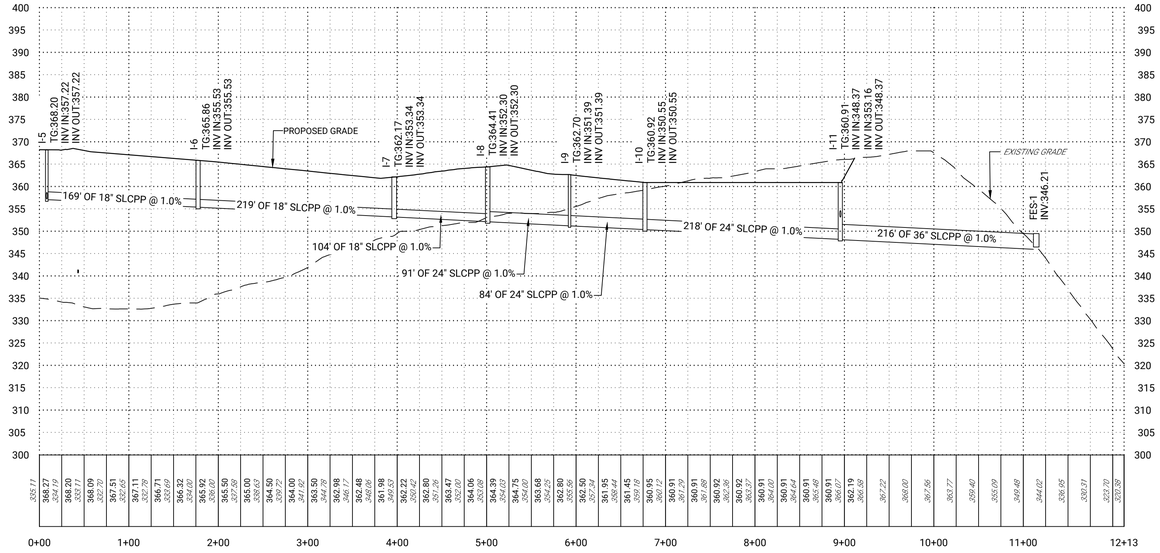
UTILITY PLAN

SHEET NO.

C403



HW-1 TO FES-6 PROFILE



I-5 TO FES-1 PROFILE

I-28 TO I-5 PROFILE

I-14 TO FES-7 PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 10 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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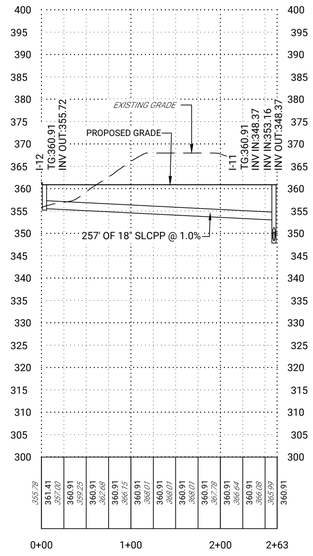
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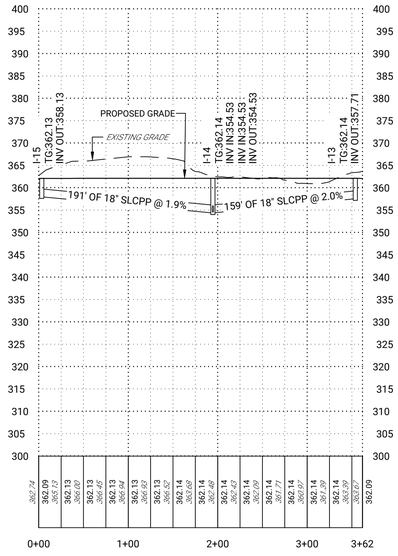
STORMWATER PROFILE PLAN

SHEET NO.

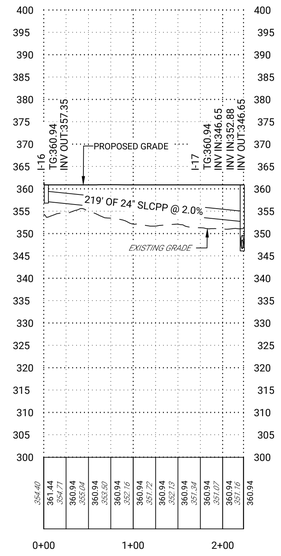
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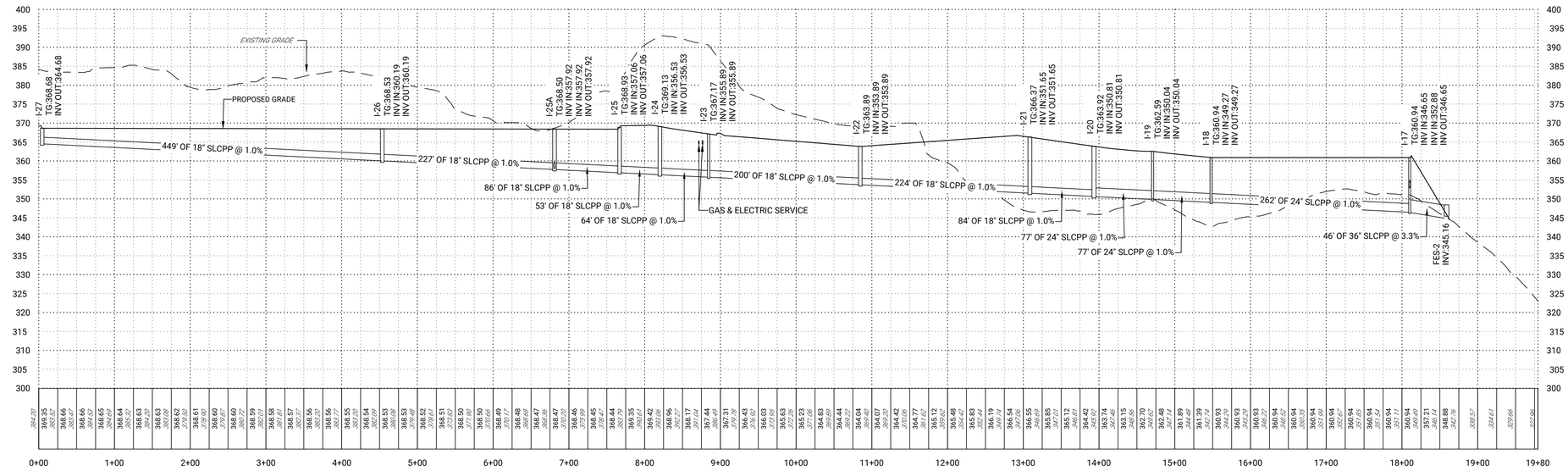
I-12 TO I-11 PROFILE



I-15 TO I-13 PROFILE



I-16 TO I-17 PROFILE



I-27 TO FES-2 PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 10 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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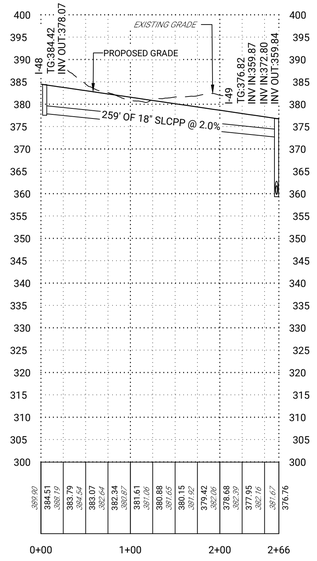
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SHEET TITLE

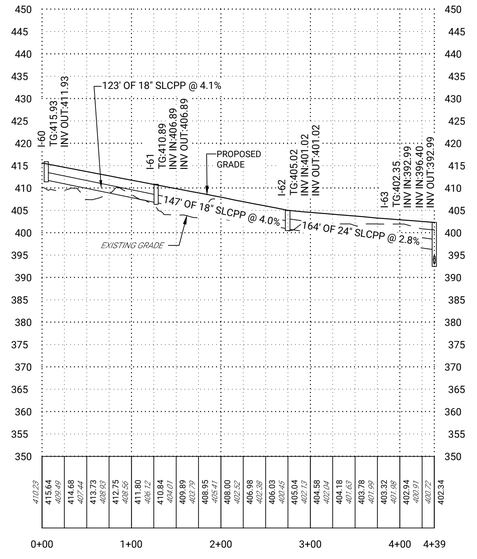
STORMWATER PROFILE PLAN

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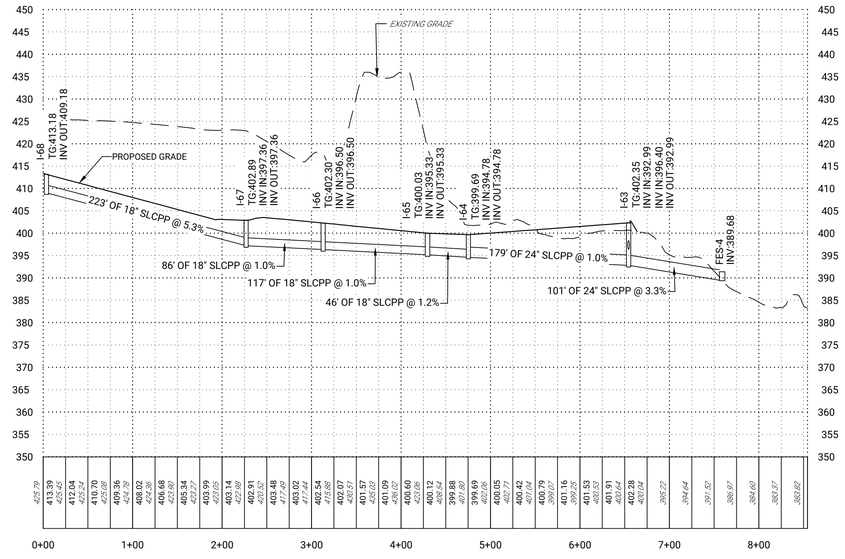
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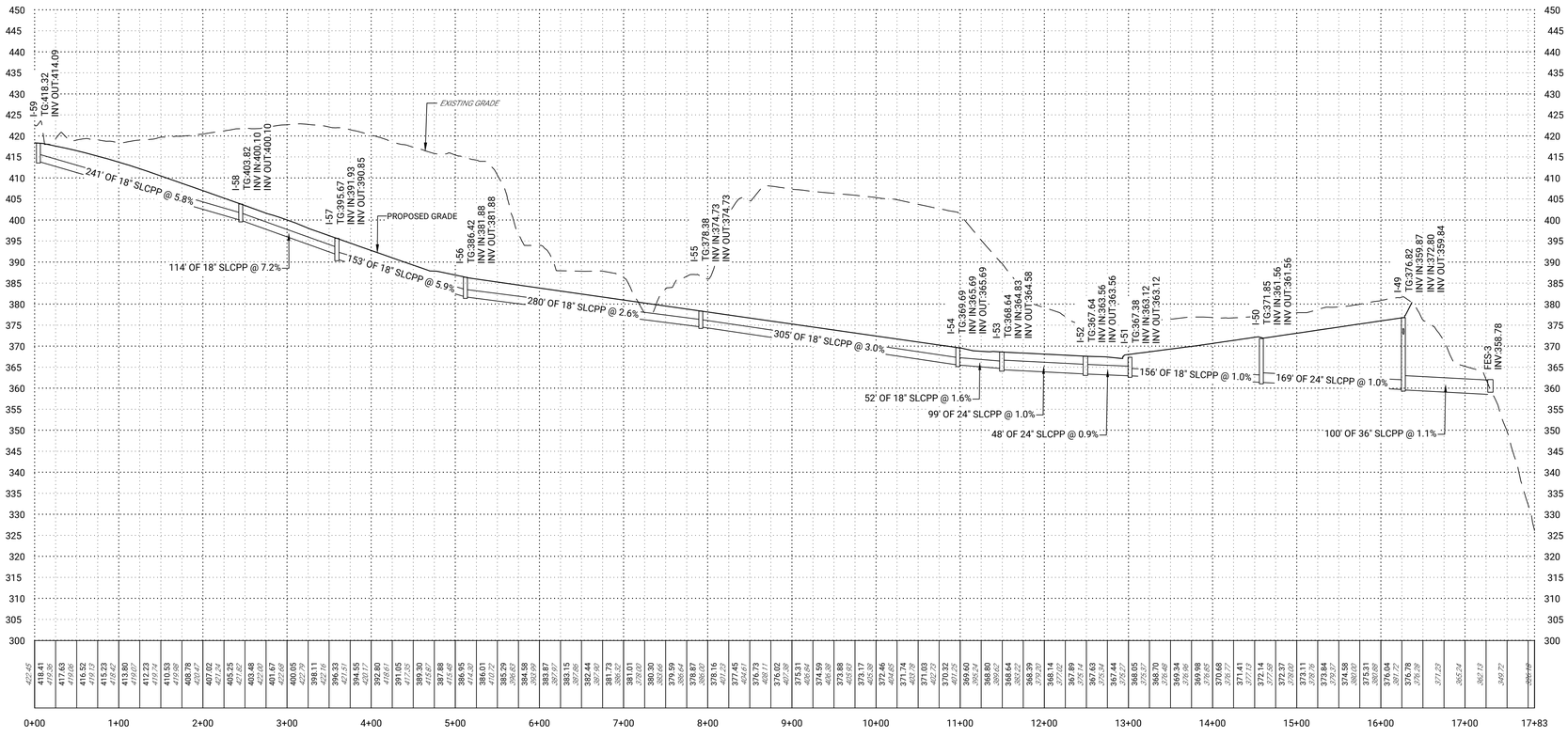
I-48 TO I-49 PROFILE



I-60 TO I-63 PROFILE



I-68 TO FES-4 PROFILE



I-59 TO FES-3 PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 10 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

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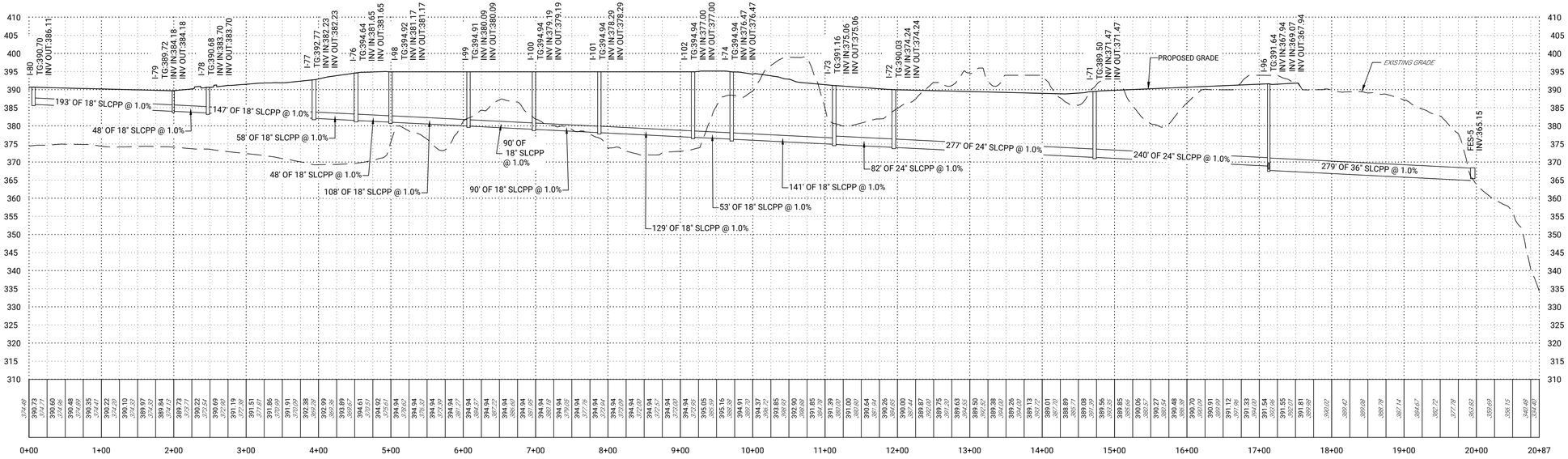
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SHEET TITLE

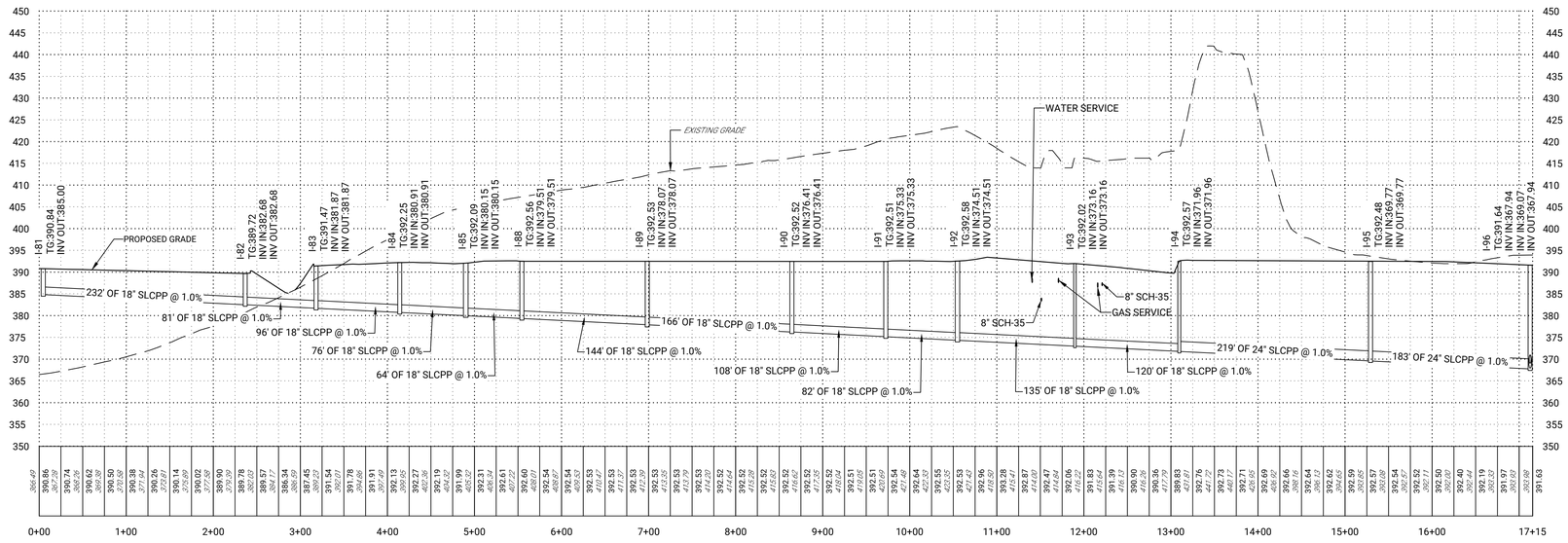
STORMWATER PROFILE PLAN

SHEET NO.

C503

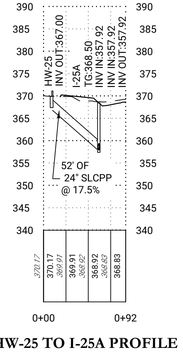


I-80 TO FES-5 PROFILE

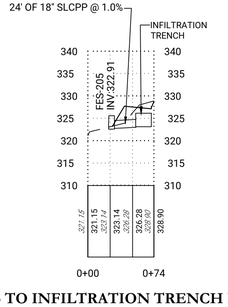


I-88 TO I-70 PROFILE

FES-200 TO OS-204 PROFILE



HW-25 TO I-25A PROFILE



FES-205 TO INFILTRATION TRENCH PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 10 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
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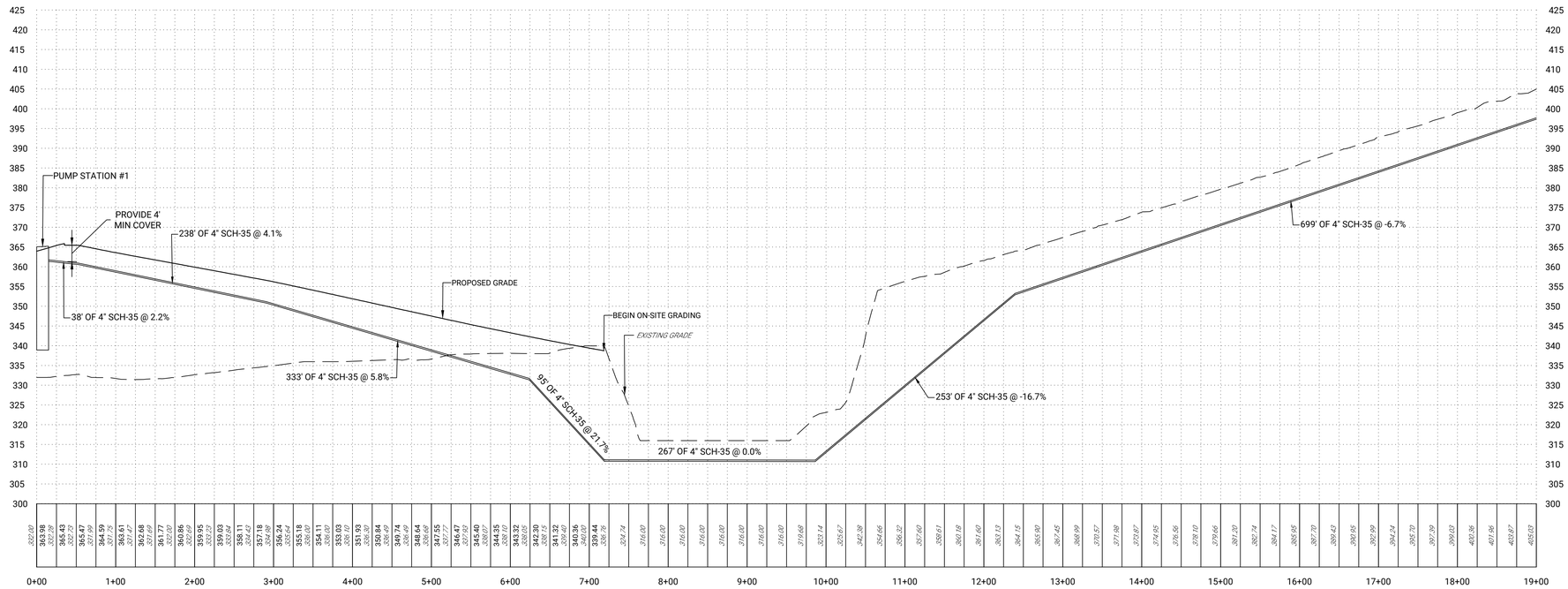
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SHEET TITLE

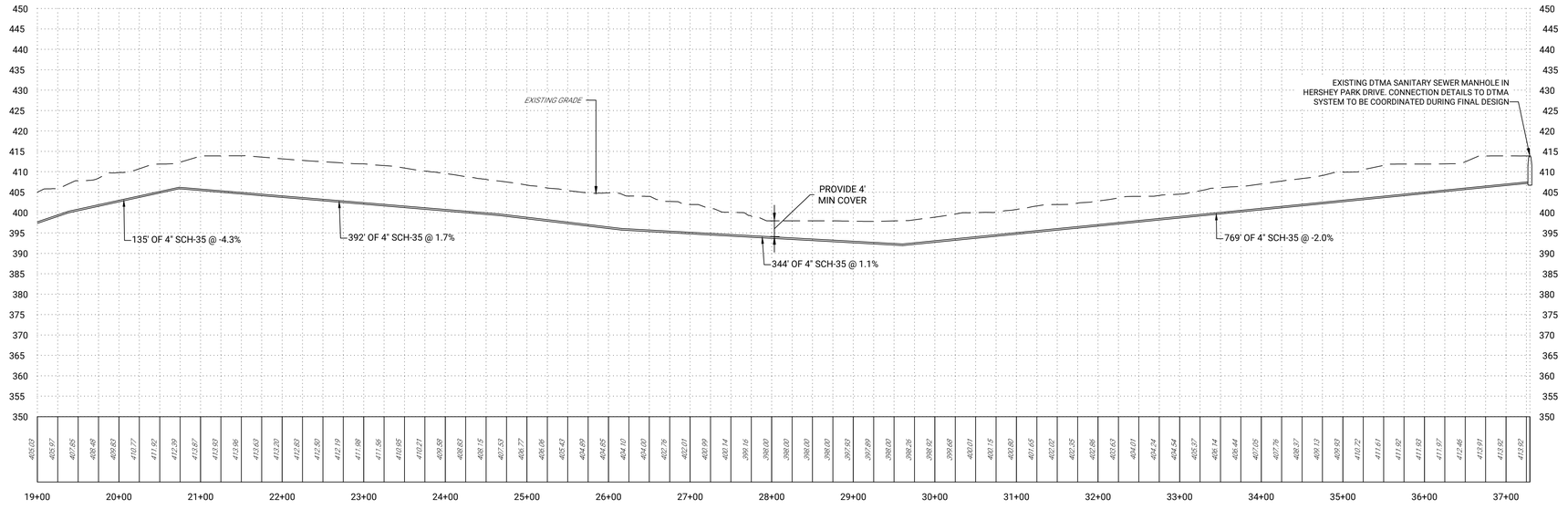
STORMWATER PROFILE PLAN

SHEET NO.

C504



FORCEMAIN 1 PROFILE



FORCEMAIN 1 PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 16 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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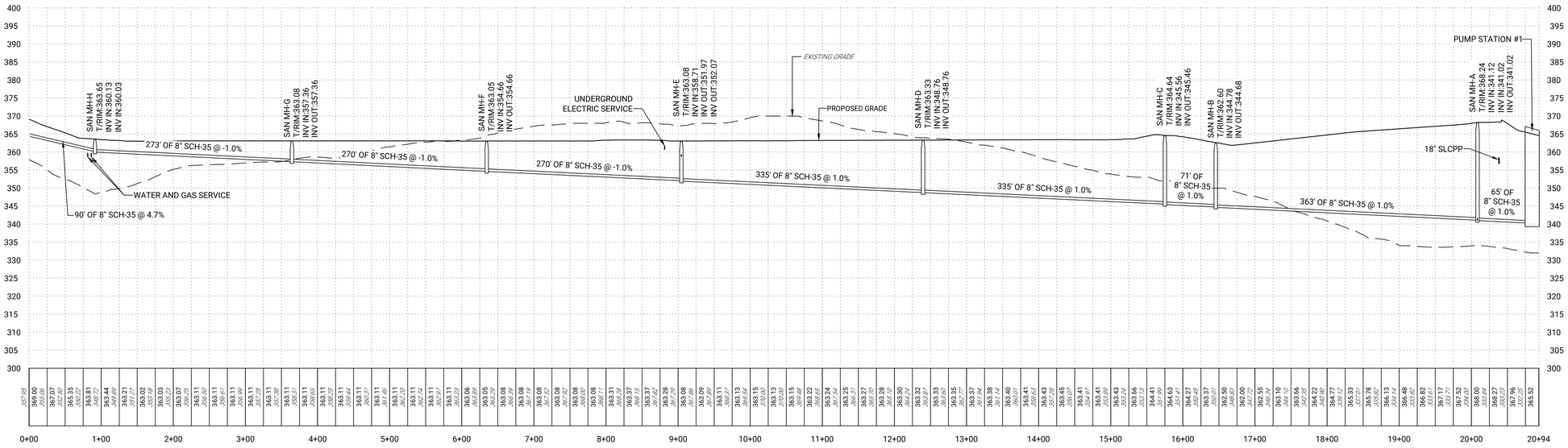
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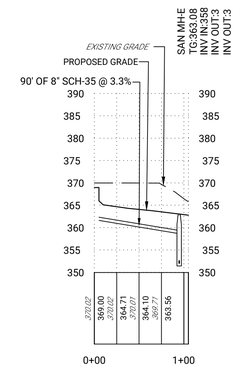
SANITARY PROFILE PLAN

SHEET NO.

C505



BUILDING 1A & 1B SEWER PROFILE



3UILDING 1A TO SAN MH-E PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 16 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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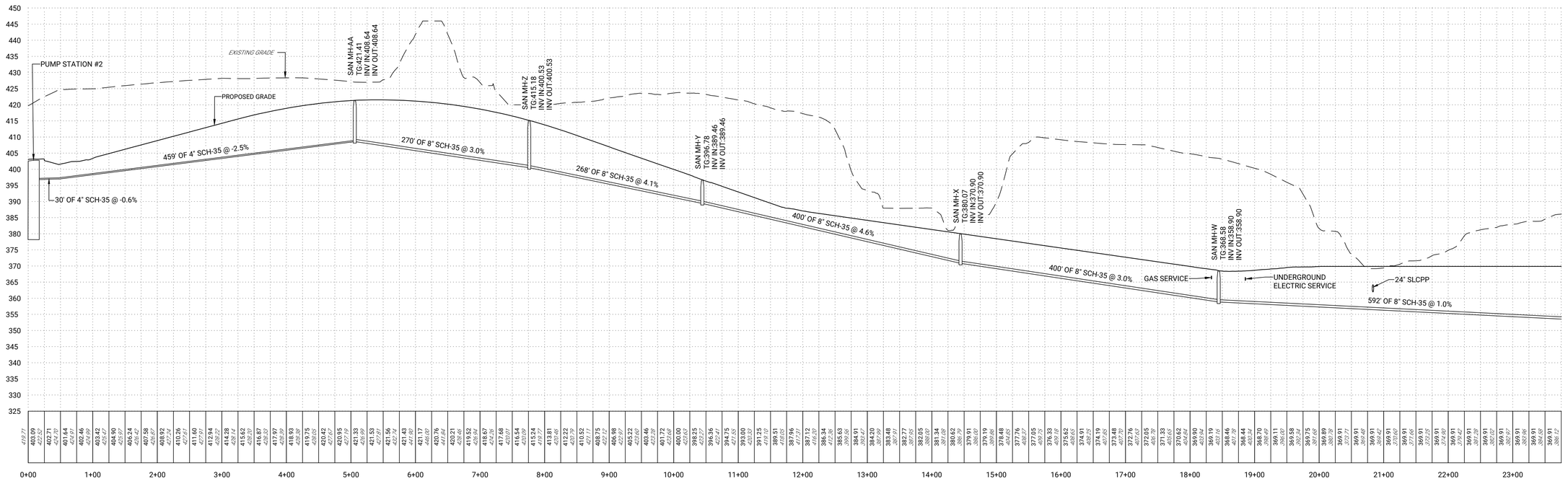
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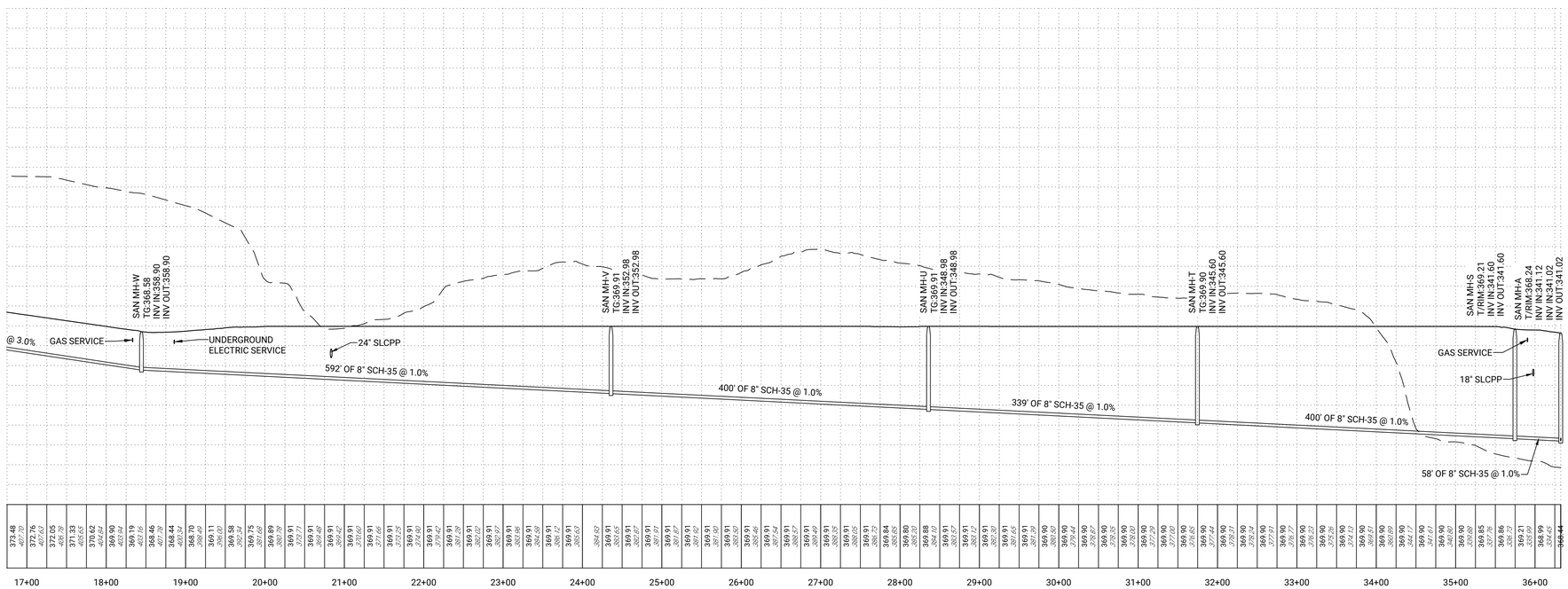
SANITARY PROFILE PLAN

SHEET NO.

C506



PUMPSTATION #2 TO SAN MH-A PROFILE



PUMPSTATION #2 TO SAN MH-A PROFILE

16 0 16 32 FT
VERTICAL SCALE: 1 INCH = 16 FEET

80 0 80 160 FT
HORIZONTAL SCALE: 1 INCH = 80 FEET

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SANITARY PROFILE PLAN

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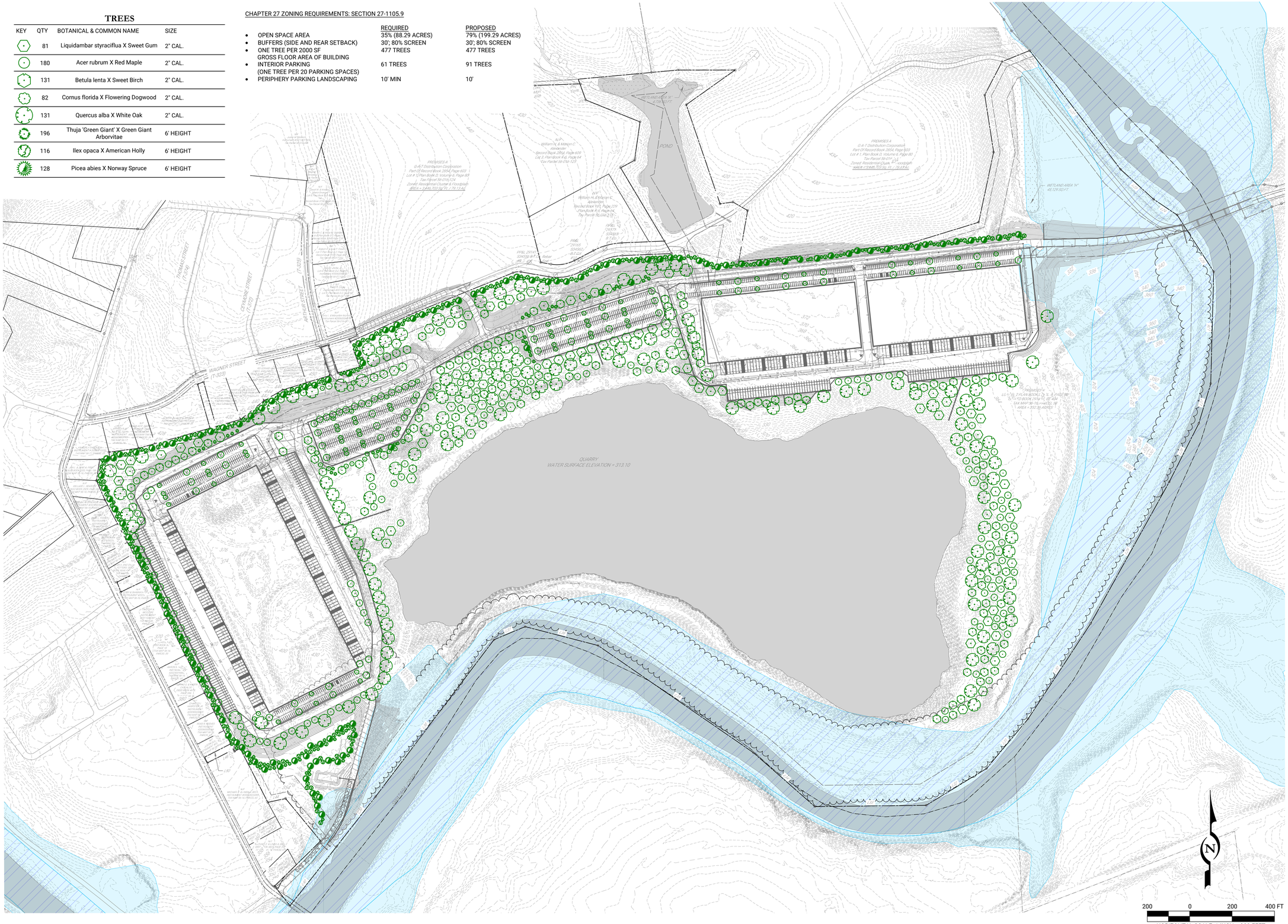
C507

TREES

KEY	QTY	BOTANICAL & COMMON NAME	SIZE
	81	Liquidambar styraciflua X Sweet Gum	2" CAL.
	180	Acer rubrum X Red Maple	2" CAL.
	131	Betula lenta X Sweet Birch	2" CAL.
	82	Cornus florida X Flowering Dogwood	2" CAL.
	131	Quercus alba X White Oak	2" CAL.
	196	Thuja 'Green Giant' X Green Giant Arborvitae	6' HEIGHT
	116	Ilex opaca X American Holly	6' HEIGHT
	128	Picea abies X Norway Spruce	6' HEIGHT

CHAPTER 27 ZONING REQUIREMENTS: SECTION 27-1105.9

	REQUIRED	PROPOSED
• OPEN SPACE AREA	35% (88.29 ACRES)	79% (199.29 ACRES)
• BUFFERS (SIDE AND REAR SETBACK)	30'; 80% SCREEN	30'; 80% SCREEN
• ONE TREE PER 2000 SF GROSS FLOOR AREA OF BUILDING	477 TREES	477 TREES
• INTERIOR PARKING (ONE TREE PER 20 PARKING SPACES)	61 TREES	91 TREES
• PERIPHERY PARKING LANDSCAPING	10' MIN	10'



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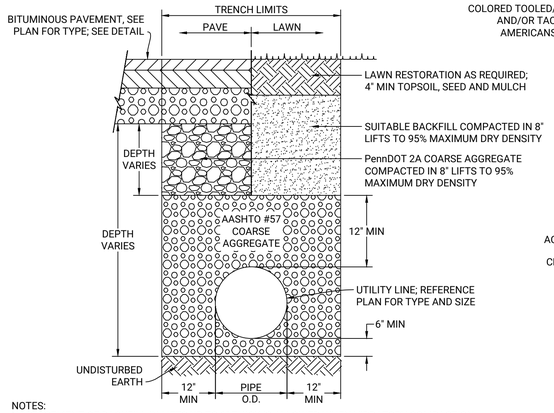
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LANDSCAPE PLAN

SHEET NO.

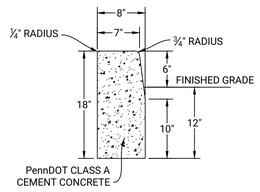
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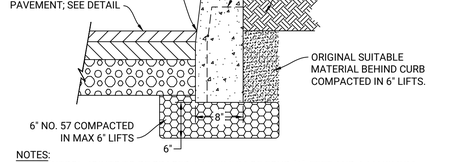
NOTES:
1. PLACEMENT OF BACKFILL IN LIFTS UP TO 8" THICK IS ALLOWED WHEN VIBRATORY COMPACTION EQUIPMENT IS BEING UTILIZED. USE MECHANICAL TAMPERS OR OTHER ACCEPTABLE COMPACTION EQUIPMENT WITH CONSISTENT APPLICATION FORCE SO NO DAMAGE TO THE PIPE OCCURS. BACKFILL WILL BE TESTED FOR 100% COMPACTION WHEN PLACED IN PAVED AREAS.
2. SUITABLE MATERIAL IS MATERIAL CONTAINING NO DEBRIS, ORGANIC MATTER, FROZEN MATERIAL OR LARGE STONES WITH A DIAMETER GREATER THAN ONE-HALF THE THICKNESS OF THE COMPACTED LAYERS BEING PLACED.
3. COMPACT THE TOP 3' OF BACKFILL MATERIAL TO 100% STANDARD PROCTOR DENSITY.
4. FOLLOW OSHA SAFETY REQUIREMENTS FOR SLOPE LAYBACKS OR PROVIDE SHORING AS REQUIRED.

FULL DEPTH TRENCH RESTORATION

NOT TO SCALE



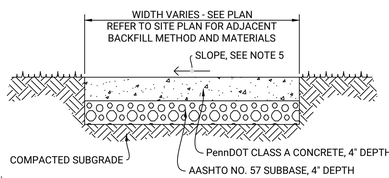
TYPICAL CROSS SECTION



NOTES:
1. CONTROL JOINTS TO BE SPACED A MINIMUM OF FOUR (4') FEET AND A MAXIMUM OF TWENTY (20') FEET.
2. WHEN EXISTING PAVEMENT IS PRESENT, SAW CUT A MINIMUM OF EIGHTEEN (18") INCHES FROM FACE OF CURB OR AS REQUIRED FOR NECESSARY INSTALLATION.
3. SEAL ALL CONCRETE TO CONCRETE, CONCRETE TO PAVEMENT AND PAVEMENT TO PAVEMENT JOINTS.

CURB INSTALLATION

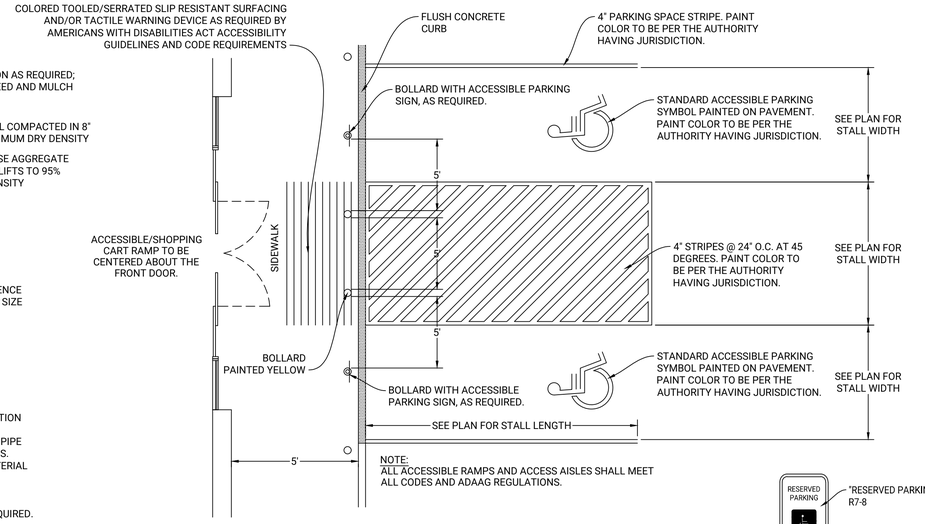
NOT TO SCALE



NOTES:
1. FORM 2" SMOOTH TOOLED BORDER AT ALL JOINTS AND EDGES WITH A ¼" RADIUS EDGING TOOL.
2. PROVIDE SCORED JOINTS EVERY FIVE (5') FEET AND EXPANSION JOINTS AT A MAXIMUM INTERVAL OF TWENTY FIVE (25') FEET.
3. WHERE CONCRETE ABUTS RIGID OBJECTS, INSTALL ½" PRE-MOLDED EXPANSION MATERIAL.
4. PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO FOOT TRAFFIC.
5. MAXIMUM SLOPE
   - CROSS SLOPE - 2.0%
   - LONGITUDINAL SLOPE - 5.0%

CONCRETE WALK

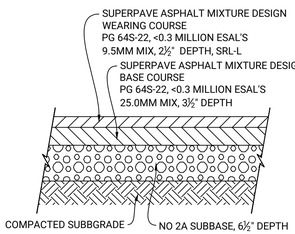
NOT TO SCALE



NOTE:
ALL ACCESSIBLE RAMPS AND ACCESS AISLES SHALL MEET ALL CODES AND ADAAG REGULATIONS.

ACCESSIBLE PARKING

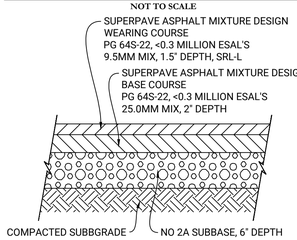
NOT TO SCALE



*PAVEMENT DEPTHS SHOWN ARE MINIMUM, CONTRACTOR TO MATCH EXISTING PAVEMENT SECTION WITHIN THE SR IF GREATER DEPTHS EXISTING. TACK COAT SHALL BE UTILIZED BETWEEN EACH LAYER.

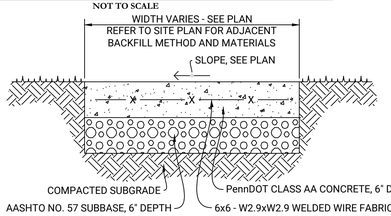
AREAS RECEIVING 10 TO 25 LOADED HEAVY (18-WHEEL) TRUCKS/DAY (290,000 ESALs)

NOT TO SCALE



PARKING AREAS FOR AUTOMOBILES AND LIGHT TRUCKS (20,000 ESALs)

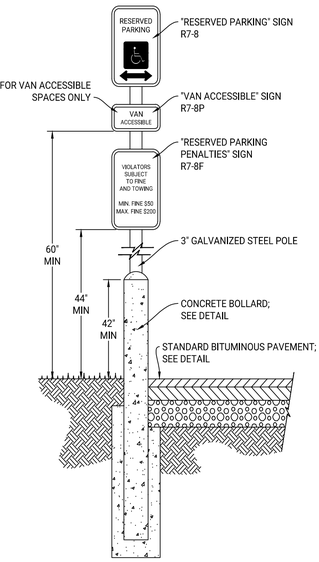
NOT TO SCALE



NOTES:
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2. PROVIDE SCORED JOINTS EVERY FIVE (5') FEET AND EXPANSION JOINTS AT A MAXIMUM INTERVAL OF TWENTY FIVE (25') FEET.
3. WHERE CONCRETE ABUTS RIGID OBJECTS, INSTALL ½" PRE-MOLDED EXPANSION MATERIAL.
4. PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO FOOT TRAFFIC.

REINFORCED CONCRETE PAVEMENT

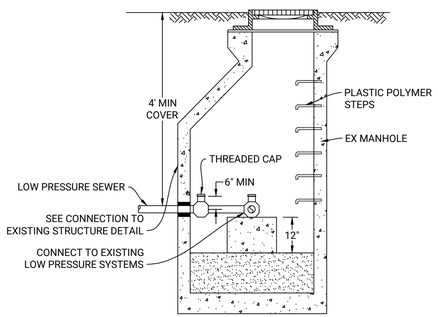
NOT TO SCALE



NOTES:
1. SIGN PANELS ARE TO BE 0.10 ALUMINUM WITH RAISED OR SILKSCREEN COPY. BOLT TO GALVANIZED STEEL TUBE WITH ⅝"Ø CADMIUM PLATED NUTS, BOLTS AND WASHERS.
2. SIGN DETAILS AND DESIGNATIONS ARE PER PennDOT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS. REFERENCE PUB 236 FOR ADDITIONAL DETAILS.

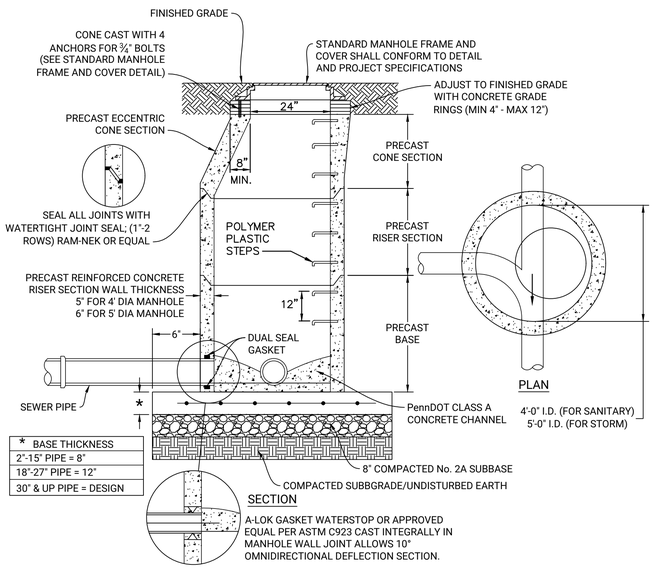
ACCESSIBLE SIGNAGE - CONCRETE BOLLARD

NOT TO SCALE



LOW PRESSURE SEWER CONNECTION TO MANHOLE

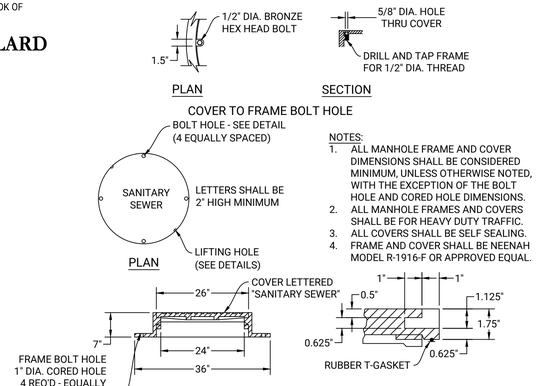
NOT TO SCALE



* BASE THICKNESS
2'-15" PIPE = 8"
18"-27" PIPE = 12"
30" & UP PIPE = DESIGN

SANITARY/STORM PRECAST MANHOLE

NOT TO SCALE



NOTES:
1. ALL MANHOLE FRAME AND COVER DIMENSIONS SHALL BE CONSIDERED MINIMUM, UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF THE BOLT HOLE AND CORED HOLE DIMENSIONS.
2. ALL MANHOLE FRAMES AND COVERS SHALL BE FOR HEAVY DUTY TRAFFIC.
3. ALL COVERS SHALL BE SELF SEALING.
4. FRAME AND COVER SHALL BE NEENAH MODEL R-1916-F OR APPROVED EQUAL.

WATERTIGHT FRAME AND COVER

NOT TO SCALE

REV	DATE	COMMENTS	BY
1	07.10.2024	INTIAL SUBMISSION	CRP

ISSUE / REVISIONS

LIVIC civil
1029 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987-1993
www.liviccivil.com

ALL CONTENTS OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE REPRODUCED OR UTILIZED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM LIVIC CIVIL, LLC. ONLY APPROVED, SEALED PLANS SHALL BE IMPLEMENTED FOR CONSTRUCTION PURPOSES.
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PROJECT No:	1190-04
DATE:	JULY 10, 2024
SCALE:	AS SHOWN
DRAWN BY: CRP	CHECKED BY: CMJ

PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

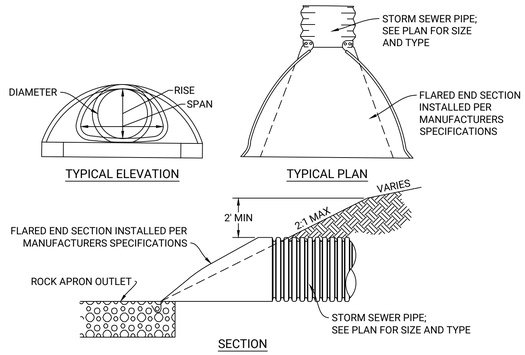
HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

DETAILS

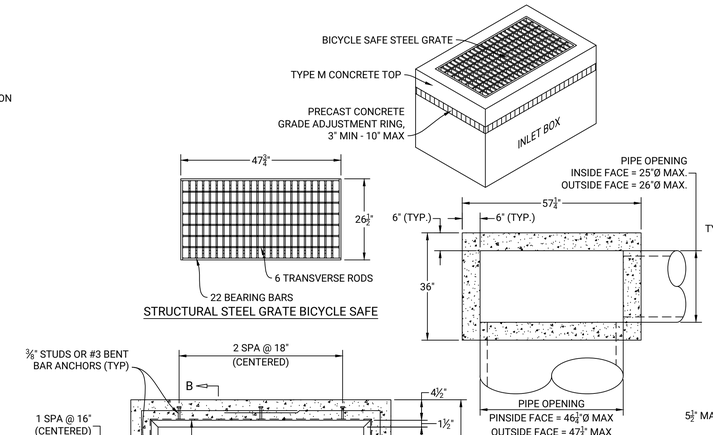
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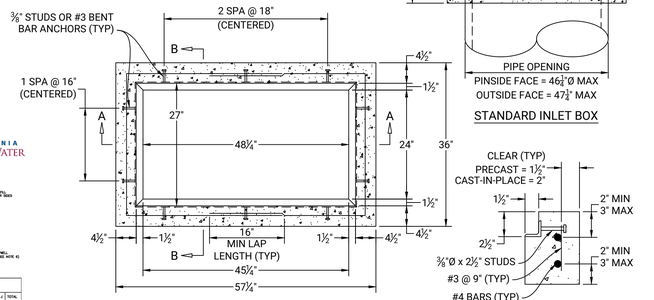
C801



HDPE FLARED END SECTION

NOT TO SCALE

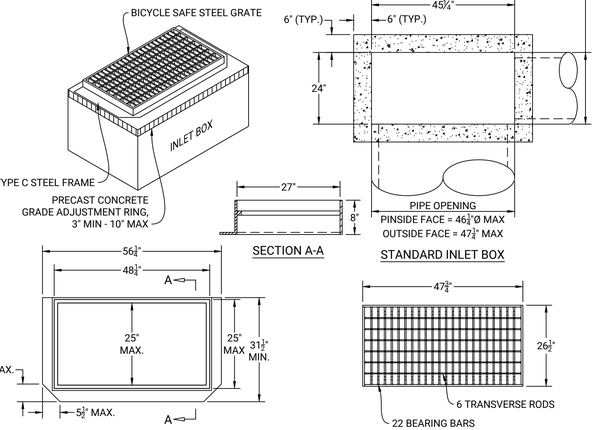




NOTES:
1. PROVIDE MANHOLE STEPS FOR INLETS OVER 4' DEEP IN ACCORDANCE WITH PENNDOT PUBLICATION 72, RC-39M.
2. REFERENCE PENNDOT PUBLICATION 72, RC-45M, FOR ADDITIONAL DETAILS ON THE INLET FRAME AND GRATE AND PRECAST CONCRETE GRADE ADJUSTMENT RINGS.
3. REFERENCE PENNDOT PUBLICATION 72, RC-46M, FOR ADDITIONAL DETAILS ON THE STANDARD INLET BOX.

STANDARD INLET BOX - TYPE M CONCRETE TOP

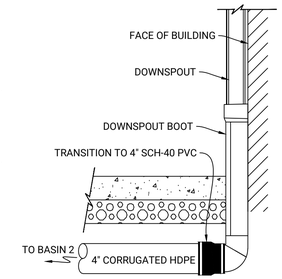
NOT TO SCALE



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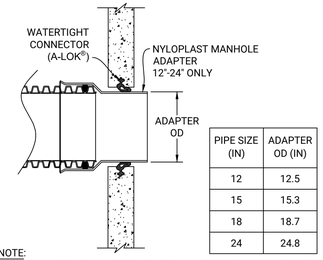
STANDARD INLET BOX - TYPE C STEEL FRAME

NOT TO SCALE



BUILDING DOWNSPOUT

NOT TO SCALE



PIPE SIZE (IN)	ADAPTER OD (IN)
12	12.5
15	15.3
18	18.7
24	24.8

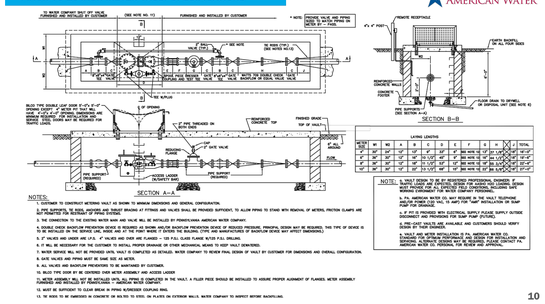
NOTE:
PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST ENSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

WATER-TIGHT PRECAST COMPRESSION GASKET

NOT TO SCALE

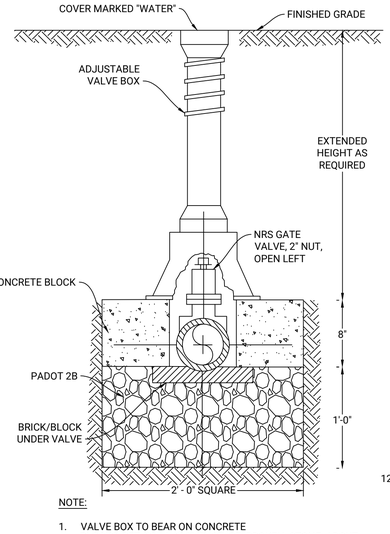
4-INCH TO 10-INCH METER VAULT SPECIFICATIONS

PENNSYLVANIA AMERICAN WATER



NOTES:
1. CUSTOMER TO CONSTRUCT METERING VAULT AS SHOWN TO MINIMUM DIMENSIONS AND GENERAL CONFIGURATION.
2. PIPE SUPPORTS, TIE RODS, ANCHORS AND THRUST BRACING AT FITTINGS AND VALVES SHALL BE PROVIDED SUFFICIENT, TO ALLOW PIPING TO STAND WITH REMOVAL OF METERS, FRICTION CLAMPS ARE NOT PERMITTED FOR SUPPORT OF PIPING SYSTEMS.
3. THE CONNECTION TO THE EXISTING WATER MAIN AND VALVE WILL BE INSTALLED BY PENNSYLVANIA AMERICAN WATER COMPANY.
4. A BACKFLOW PREVENTER IS REQUIRED ON ALL FIRE SERVICES AND ON ALL DOMESTIC SERVICES WHERE PROTOCOL PRINCIPAL DESIGN MAY BE REQUIRED. THIS TYPE OF DEVICE IS TO BE INSTALLED ON THE SERVICE LINE, INSIDE AND AT THE FIRST WHERE IT ENTERS THE BUILDING. (TYPE AND MANUFACTURER OF BACKFLOW DEVICE MAY AFFECT DIMENSIONS.)
5. 2" VALVES AND UNDER ARE U.P.C. 4" VALVES AND OVER ARE FLANGED – 125 P.S.I. CLASS FLANGE WITH P.S.I. DRILLING.
6. IT WILL BE NECESSARY FOR THE CUSTOMER TO INSTALL PROPER DRAINAGE OR OTHER MECHANICAL MEANS TO KEEP VAULT DEWATERED.
7. WATER SERVICE WILL NOT BE PROVIDED UNTIL VAULT IS COMPLETED AS DETAILED. WATER COMPANY TO REVIEW FINAL DESIGN OF VAULT BY CUSTOMER FOR DIMENSIONS AND OVERALL CONFIGURATION.
8. GATE VALVES AND PIPING MUST BE SAME SIZE AS METER.
9. ALL VALVES AND BACKFLOW PREVENTERS TO BE MAINTAINED BY CUSTOMER.
10. BUILD TYPE DOOR BY WE CENTERED OVER METER ASSEMBLY AND ACCESS LADDER
FLANGED ASSEMBLIES WILL NOT BE INSTALLED UNTIL ALL PIPING IS COMPLETED IN THE VAULT. A FILLER PIECE SHOULD BE INSTALLED TO ASSURE PROPER ALIGNMENT OF FLANGES. METER ASSEMBLY FURNISHED AND INSTALLED BY PENNSYLVANIA – COMPANY MAKE COMPLETE.
11. MUST BE SUFFICIENT TO CLEAR BREAK IN PIPING ACROSSEDGE COUPLING RING.
12. TIE RODS TO BE EMBEDDED IN CONCRETE OR BOLTED TO STEEL ON PLATES ON EXTERIOR WALLS. WATER COMPANY TO INSPECT BEFORE BACKFILLING.

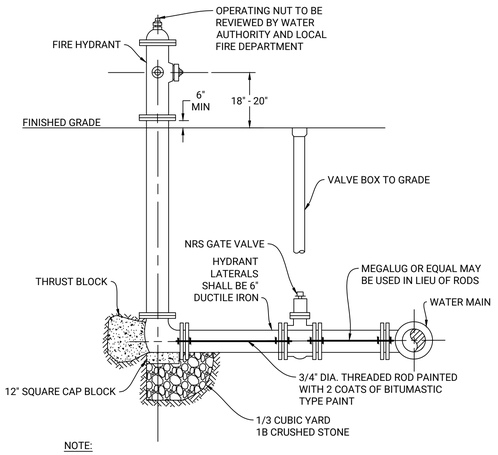
10



NOTE:
1. VALVE BOX TO BEAR ON CONCRETE BLOCKS SET ON A 1'-0" BASE OF BROKEN STONE ABOUT THE VALVE. UNDER NO CONDITION IS THE VALVE BOX TO BEAR ON THE VALVE OR CARRIER PIPE. RELATIVE POSITION OF VALVE AND VALVE BOX TO BE AS SHOWN.
2. VALVES SHALL BE NRS GATE VALVES, OPEN LEFT AS REQUIRED BY THE WATER AUTHORITY. PROVIDE MUELLER OR EQUAL.

VALVE BOX INSTALLATION

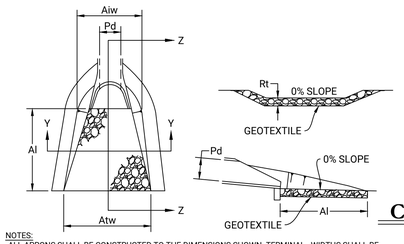
NOT TO SCALE



NOTE:
1. ALL JOINTS SHALL BE MECHANICAL TYPE JOINT.
2. SEE VALVE BOX INSTALLATION DETAIL.
3. FIRE HYDRANTS SHALL MEET WATER AUTHORITY STANDARDS AND SHALL BE APPROVED BY THE AUTHORITY PRIOR TO INSTALLATION. THE WATER AUTHORITY SHALL PROVIDE SPECIFICATIONS ON OPERATING NUT SIZE AND MATERIAL.

FIRE HYDRANT

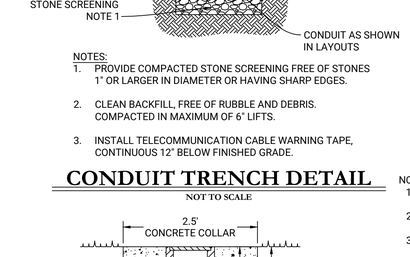
NOT TO SCALE



NOTES:
-ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
-ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

RIPRAP APRON AT PIPE OUTLET W/FLARED END SECTION STANDARD CONSTRUCTION DETAIL 9-1

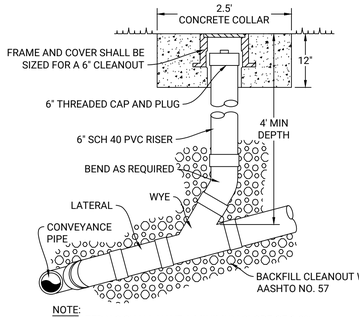
NOT TO SCALE



NOTES:
1. PROVIDE COMPACTED STONE SCREENING FREE OF STONES 1" OR LARGER IN DIAMETER OR HAVING SHARP EDGES.
2. CLEAN BACKFILL, FREE OF RUBBLE AND DEBRIS. COMPACTED IN MAXIMUM OF 6" LIFTS.
3. INSTALL TELECOMMUNICATION CABLE WARNING TAPE, CONTINUOUS 12" BELOW FINISHED GRADE.

CONDUIT TRENCH DETAIL

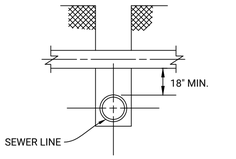
NOT TO SCALE



NOTE:
ALL LATERALS SHALL HAVE A MINIMUM SLOPE OF 1.0%.

CLEANOUT AND LATERAL CONNECTION

NOT TO SCALE

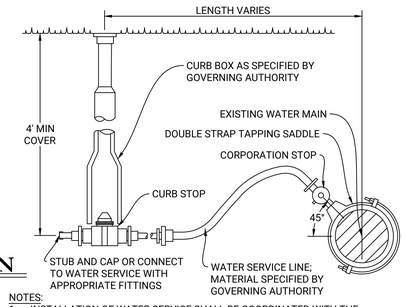


SECTION

NOTES:
1. IF JOINT ON WATER MAIN IS WITHIN LIMITS OF SEWER TRENCH. INSTALL MECHANICAL BELL JOINT CLAMP.
2. IF CLEARANCE IS LESS THAN 18" CONCRETE ENCASE SEWER PIPE 10FT. EACH SIDE OF WATER MAIN.
3. IN NO CASE SHALL THE SEWER PIPE CONTACT ANY WATER MAIN, SERVICE LINE OF APPURTENANCE.

VERTICAL WATER MAIN CLEARANCE

NOT TO SCALE



NOTES:
1. INSTALLATION OF WATER SERVICE SHALL BE COORDINATED WITH THE INSTALLATION OF OTHER PROPOSED UTILITIES TO MINIMIZE CONFLICTS. WATER SERVICE LOCATION MAY BE ADJUSTED IF NECESSARY.
2. REFERENCE TRENCH RESTORATION DETAIL FOR BACKFILL.

WATER SERVICE CONNECTION

NOT TO SCALE

REV	DATE	ISSUE / REVISIONS	BY	CHKD
1	07.10.2024	INTIAL SUBMISSION	CRP	CMJ
		COMMENTS		

LIVIC civil
1029 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987-1993
www.liviccivil.com

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PROJECT No:	1190-04
DATE:	JULY 10, 2024
SCALE:	AS SHOWN
DRAWN BY: CRP	CHECKED BY: CMJ

PROJECT
HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT
HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE
DETAILS

SHEET NO.
C802

UTILITY LINE TRENCH EXCAVATION

THE MOST IMPORTANT EROSION AND SEDIMENTATION CONTROL CONSIDERATION FOR TRENCH CONSTRUCTION IS THE LIMITING AND SCHEDULING OF WORK ACTIVITIES, AS FOLLOWS:

1. MINIMIZE AREA OF EXPOSURE. DISTURB ONLY THE AREA REQUIRED FOR CONSTRUCTION. AT THE PRESENT NATURAL VEGETATION COVERS THE AREA AND THERE IS LITTLE EROSION. DO NOT DISTURB ANY EXISTING VEGETATION BELOW THE CONSTRUCTION AREA. THIS AREA WILL ACT AS A NATURAL FILTER.
2. MINIMIZE THE TIME OF EXPOSURE. ALL DISTURBED AREAS WILL BE RE-SEEDED AND MULCHED WITHIN FOUR (4) DAYS, OR SOONER IF WORK IS COMPLETED.
3. FOR INSTALLATION IN LAWN AREAS, TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED AND STOCKPILED ADJACENT TO TRENCH FOR REDISTRIBUTION AT FINAL GRADING. EXCAVATED MATERIAL SUITABLE FOR BACKFILLING TRENCH SHALL LIKEWISE BE STOCKPILED ADJACENT TO TRENCH, PREFERABLY UPGRADE OF TRENCH. IF RAIN IS FORECAST PRIOR TO BACKFILLING TRENCH, INSTALL SILT BARRIER FENCE BELOW STOCKPILED MATERIAL AND PROTECT TRENCH FROM ENTRY OF SURFACE WATER.
4. FOR INSTALLATION IN PAVEMENT AND SHOULDER AREAS, EXCAVATED MATERIAL SHALL BE LOADED INTO TRUCKS, HAULED OFF SITE AND PROPERLY DISPOSED OF. BACKFILL WITH SELECT MATERIAL. WHERE EXCAVATED MATERIAL IS PERMITTED AS BACKFILL, DO NOT PLACE EXCAVATED MATERIAL IN OR ADJACENT TO CURBS, GUTTERS, OR DITCHES WHERE IT MAY COME IN CONTACT WITH STORM WATER. WHERE EXCAVATED MATERIAL MUST BE SO PLACED, PROTECT MATERIAL BY SECURELY ANCHORED SHEETING, PLASTIC, ETC.
5. INSTALL CONTROL MEASURES BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM. ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION UNTIL ALL DISTURBED AREAS ARE STABILIZED. CLEAN OR CHANGE AS NEEDED.
6. INSTALL SILT BARRIER FENCE AS SHOWN AND AS REQUIRED IN ACCORDANCE WITH THE DETAIL.
7. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE REMOVED BY PUMPING. NO DISCHARGE OF SILT, MUD OR OTHER POLLUTANTS DIRECTLY INTO ANY WATERCOURSE WHEN USING PUMPS DURING CONSTRUCTION WILL BE PERMITTED. CONSTRUCT SEDIMENTATION BASINS IF NECESSARY. TRENCH DE-WATERING DISCHARGES MAY BE DIRECTED THROUGH A PUMPED WATER FILTER BAG AND ONTO EXISTING VEGETATION IF ACCEPTABLE.
8. THESE MEASURES REPRESENT THE MINIMUM PRECAUTIONS REQUIRED. CONTRACTOR SHALL EVALUATE THE EFFECTIVENESS OF THE MEASURES CITED AND IMPLEMENT THEM ALONG WITH ADDITIONAL MEASURES AS NEEDED.
9. SCHEDULE OF ACTIVITIES:
   A. INSTALL SILT BARRIER FENCE, AT LIMIT OF GRADING LINE, AND ELSEWHERE AS NEEDED.
   B. CLEAR AND GRUB AREA OF CONSTRUCTION. TREES AND OTHER NATURAL VEGETATION ARE NOT TO BE DISTURBED OUTSIDE THE CONSTRUCTION AREA. LIMIT CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO (2) TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
   C. EXCAVATE. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILLING THAT CAN BE COMPLETED AND TESTED THE SAME DAY.
   D. INSTALL PIPE IN ACCORDANCE WITH RESTORATION DETAILS.
   E. BACKFILL IN ACCORDANCE WITH RESTORATION DETAILS.
   F. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF EACH WEEK.
   G. CONTRACTOR SHALL MAINTAIN ALL CONTROL MEASURES UNTIL PERMANENT STABILIZATION HAS OCCURRED. CHECK CONTROL MEASURES WEEKLY OR AFTER EVERY RAINFALL EVENT. CLEAN OR REPLACE AS NEEDED.
10. EXCEPTIONS: IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED. IN THESE CASES, THE FOLLOWING EXCEPTIONS APPLY:
    A. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX (6) DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY.
    B. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS, APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES/FACILITIES WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO (2) CALENDAR DAYS.

SEEDING

TEMPORARY SEEDING:

1. IF PERMANENT VEGETATION IS NOT PLACED ON DISTURBED AREA FOR FOUR (4) OR MORE DAYS, THE DISTURBED AREA SHALL BE SEEDED AS FOLLOWS:
   A. IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AGRICULTURAL GRADE LIME AT A RATE OF 1 TONS/ACRE, OR 40 LBS/1,000 SF AND FERTILIZER 10-10-10 AT A RATE OF 500 LBS/ACRE OR 12.5 LB/1,000 SF;
   B. BROADCAST TEMPORARY SEED MIXTURE OF ANNUAL RYEGRASS AT A RATE OF 10 LBS/ACRE; AND
   C. SPREAD MULCH (STRAW OR HAY) AT A RATE OF 3 TONS/ACRE, OR 140 LBS/1,000 SF.

PERMANENT SEEDING:

1. PLACE TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES WHERE THE TEXTURE OF THE EXPOSED SOIL IS NOT SUITABLE FOR VEGETATIVE GROWTH, OR WHERE THE TOPSOIL DEPTH IS INSUFFICIENT FOR THE SUPPORTING ROOT ZONE.
2. LIME AND FERTILIZE ACCORDING TO SOIL TESTS OR AT THE RATES INDICATED BELOW.
3. LOOSEN SURFACE SOIL TO A DEPTH OF 4 TO 6 INCHES WITH SUITABLE EQUIPMENT. APPLY SEEDS UNIFORMLY BY BROADCASTING OR HYDROSEEDING.
4. MULCH ALL AREAS, IF NECESSARY, MULCH SHALL BE ANCHORED WITH WOOD CELLULOSE FIBER (APPLIED AT A RATE OF 750 LBS/ACRES) OR OTHER SUITABLE MULCH ANCHORING MATERIAL.
5. SEED AND SOIL AMENDMENT APPLICATION RATES - SLOPES < 3:1:
   A. APPLY AGRICULTURAL GRADE LIME AT A RATE OF 6 TONS/ACRE, OR 240 LBS/1,000 SF;
   B. APPLY FERTILIZER 10-10-20 AT A RATE OF 1,000 LBS/ACRE OR 25 LB/1,000 SF;
   C. BROADCAST A PERMANENT SEED MIXTURE OF 50% TALL FESCUE (2 VARIETIES), 40% PERENNIAL RYEGRASS (2 VARIETIES), AND 10% BLUEGRASS (2 VARIETIES) AT A RATE OF 100 LBS/ACRE, OR 2.3 LB/1,000 SF (SEE SPECIFICATIONS FOR FURTHER DETAIL); AND
   D. SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 140 LBS/1,000 SF.
6. SEED AND TOPSOIL AMENDMENT APPLICATION RATES - SLOPE > 3:1:
   A. APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE, OR 90 LBS/1,000 SF;
   B. APPLY FERTILIZER 10-10-20 AT A RATE OF 1,000 LBS/ACRE OR 25 LB/1,000 SF;
   C. BROADCAST A PERMANENT SEED MIXTURE OF 100% TALL FESCUE 31 AT A RATE OF 100 LBS/ACRE, OR 2.3 LBS/1,000 SF; AND
   D. SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 140 LBS/1,000 SF.
7. IF A UNIFORM 70% COVER IS NOT ESTABLISHED ON ALL LAWN AREAS BY OCTOBER 15, THE CONTRACTOR SHALL LOOSEN THE SOIL SURFACE AND APPLY ADDITIONAL TOPSOIL, AND APPLY SOIL AMENDMENTS, SEED, AND MULCH TO THE EXTENT REQUIRED TO ESTABLISH ADEQUATE COVER.
8. IF A UNIFORM 90% COVER IS NOT ESTABLISHED ON ALL SLOPES BY OCTOBER 15, ALL BARREN AREAS SHALL BE REPLANTED IN ACCORDANCE WITH THE DIRECTIONS IN ITEMS 5 AND 6.
9. ALL VEGETATION SHALL BE GUARANTEED TO ACHIEVE 100% COVERAGE WITHIN ONE YEAR, OR PLANTING SHALL CONTINUE UNTIL 100% COVERAGE IS ACHIEVED.

RECYCLING OR DISPOSAL OF MATERIALS

PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH DEPARTMENT REGULATIONS.

INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT AND LITTER CONTROL. WHENEVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

CLEAN FILL

CLEAN FILL IS DESCRIBED AS UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT AND BRICK, BLOCK OR CONCENTRATE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. IT DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE SURFACE WATERS UNLESS OTHERWISE AUTHORIZED, MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

TO DETERMINE WHETHER A FILL IS CLEAN OR REGULATED, A PERSON MUST PERFORM ENVIRONMENTAL DUE DILIGENCE. ANALYTICAL ASSESSMENT, TESTING OR SAMPLING IS ONLY REQUIRED IF VISUAL INSPECTION OR REVIEWS OF HISTORIC PROPERTY USE INDICATES EVIDENCE OF THE RELEASE OF A REGULATED SUBSTANCE.

THE USE OF CLEAN FILL IS REGULATED UNDER ENVIRONMENTAL LAWS AND REGULATIONS. THE USE OF MATERIALS AS CLEAN FILL UNDER DEP'S CLEAN FILL POLICY, MUST COMPLY WITH ALL APPLICABLE REQUIREMENTS GOVERNING PLACEMENT, SUCH AS CHAPTER 102 (EROSION AND SEDIMENT CONTROL) AND CHAPTER 105 (DAM SAFETY AND WATERWAY MANAGEMENT).

ANY PERSON PLACING CLEAN FILL WHICH HAS BEEN AFFECTED BY A RELEASE OF A REGULATED SUBSTANCE ON A PROPERTY MUST CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL ON FORM FP-001. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.

BEST MANAGEMENT PRACTICES (BMP) MUST BE FOLLOWED PRIOR TO DEMOLITION ACTIVITIES TO REMOVE MATERIALS LIKE LEAD BASED PAINT SURFACE, FRIABLE ASBESTOS AND HAZARDOUS MATERIALS SUCH AS MERCURY SWITCHES, PCB BALLASTS AND FLORESCENT LIGHT BULBS FROM A BUILDING IF THE BRICK, BLOCK OR CONCRETE IS USED AS CLEAN FILL.

CLEAN FILL MAY NOT CONTAIN ANY FREE LIQUIDS BASED ON VISUAL INSPECTION, AND SHALL NOT CREATE NUISANCES (FOR EXAMPLE OBJECTIONABLE ODORS) TO USERS OF RECEIVING PROPERTY OR ADJACENT PROPERTY OWNERS.

GEOLOGICAL FORMATIONS OR SOIL CONDITIONS

THERE ARE NO GEOLOGIC FORMATION CONCERNS. SINCE THE SOILS ONSITE ARE EASILY ERODED, MINIMIZE EXPOSURE OF THE SUBGRADE WHEN PERFORMING EARTHWORK OPERATIONS.

POTENTIAL THERMAL IMPACTS

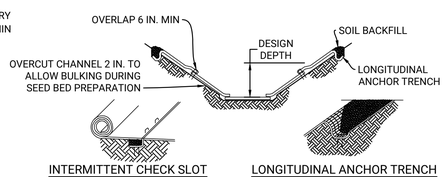
THERMAL IMPACTS HAVE BEEN REDUCED BY DIRECTING THE INCREASED IMPERVIOUS AREA RUNOFF TO THE PROPOSED DETENTION/ INFILTRATION FACILITIES.

RIPARIAN FOREST BUFFERS

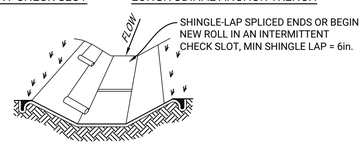
NO RIPARIAN BUFFERS ARE LOCATED WITHIN THE PROJECT LOCATION.

PRE-DEVELOPMENT CONDITIONS

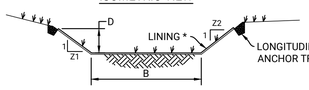
THE TOPOGRAPHIC DATA SHOWN ON THE PLAN DRAWINGS IS FROM A TOPOGRAPHIC SURVEY PERFORMED BY AKENS ENGINEERING ASSOCIATES, INC. THE EXISTING PROJECT SITE IS COMBINATION OF AGRICULTURAL FIELDS AND WOODED AREA. THE SITE GENERALLY SLOPES FROM THE NORTH TO THE SOUTH.



INTERMITTENT CHECK SLOT LONGITUDINAL ANCHOR TRENCH



ISOMETRIC VIEW



(LOOKING DOWNSTREAM)

CHANNEL CROSS-SECTION

* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
1	1	1	5	2	2	DS75 STAPLE PATTERN D

NOTES:

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION.
SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

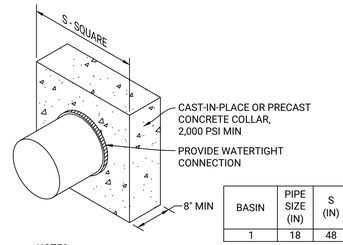
VEGETATED CHANNEL STANDARD CONSTRUCTION DETAIL 6-1
NOT TO SCALE

CONSTRUCTION & BMP INSTALLATION SEQUENCE

- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE LAND DEVELOPMENT PLAN PREPARER AND A REPRESENTATIVE FROM THE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPs AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. **DEVIATION FROM THE SEQUENCE MUST BE APPROVED BY THE COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.**
- LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. REFERENCE UTILITY LINE TRENCH EXCAVATION NOTES FOR ADDITIONAL INFORMATION.

PROJECT SEQUENCE:

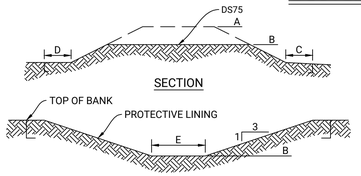
1. FIELD MARK LIMIT OF DISTURBANCE AND ANY OTHER SITE SENSITIVE REGION INCLUDING AREAS NOT TO RECEIVE EXCESSIVE COMPACTION, STEEP SLOPES, RIPARIAN BUFFERS, WETLANDS, SPRINGS AND FLOODWAYS.
2. PERFORM EARTHWORK IN AREA OF BUILDING FOUNDATION, PARKING LOT AND DRIVEWAY UNTIL REQUIRED SUBGRADE IS ACHIEVED.
3. INSTALL STORMWATER CONVEYANCE SYSTEM THROUGHOUT SITE WORKING DOWNSTREAM TO UPSTREAM, INSTALL FILTER BAG INLET PROTECTION AS WORK PROGRESSES.
4. INSTALLATION OF ALL SITE UTILITIES AND OFFSITE EXTENSIONS.
5. BEGIN CONSTRUCTION OF BUILDING AND FOUNDATION. MAINTAIN SHEET FLOW AND PREVENT CONCENTRATED FLOW FROM LEAVING THE SITE.
6. CONSTRUCT PAVEMENT, CURB AND SIDEWALK AND OTHER SITE AMENITIES. COMPLETE FINAL BITUMINOUS PAVING ACTIVITIES.
7. COMPLETE FINAL GRADING AND SEEDING.
8. IMMEDIATELY STABILIZE DISTURBED AREAS UPON TEMPORARY CESSATION OF WORK AS SOON AS ANY GRADED AREA REACHES FINAL GRADE. DO NOT WAIT UNTIL SITE IS FINAL GRADED TO BEGIN SEEDING AND MULCHING / INSTALLATION OF SOD.
9. THE COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED FOR A SITE REVIEW WHEN 70% PERENNIAL VEGETATION COVER IS ACHIEVED.
10. CONTRACTOR/APPLICANTS SHOULD COMPLETE THE NOTICE OF TERMINATION (NOT) AND PROVIDE TO THE DESIGN PROFESSIONAL FOR SUBMISSION TO THE COUNTY CONSERVATION DISTRICT TO BEGIN THE FINAL INSPECTION PROCESS.



BASIN	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
1	18	48	1

NOTES:
1. FINAL INSTALLATION OF ALL COLLARS ARE TO BE WATERTIGHT.
2. SEE TABLE FOR COLLAR SIZING AND SPACING.

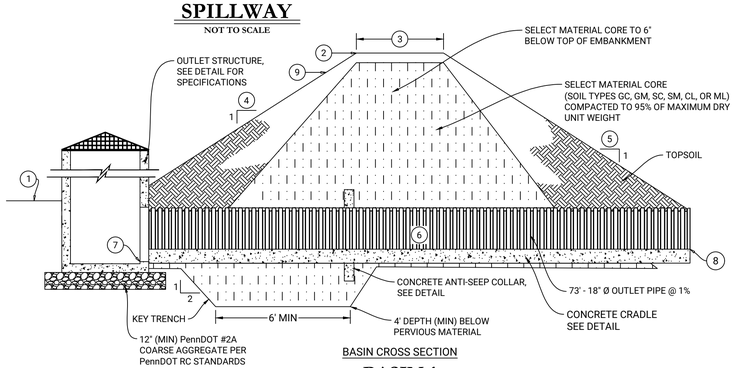
CONCRETE ANTI-SEEP COLLAR
NOT TO SCALE



SPILLWAY CROSS SECTION

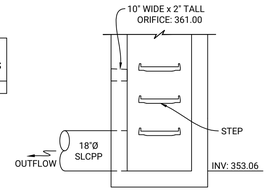
BMP	A	B	C	D	E
BASIN 1	364	362.75	8	8	25

SPILLWAY
NOT TO SCALE

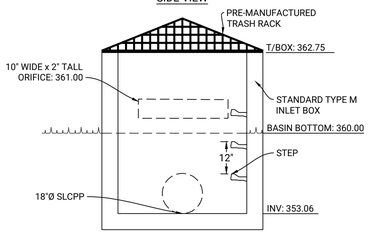


BASIN CROSS SECTION

BASIN 1
NOT TO SCALE



SIDE VIEW



LOOKING DOWNSTREAM

BASIN 1 OUTLET STRUCTURE
NOT TO SCALE

BASIN KEY	BASIN FEATURE	BASIN SUMMARY
		BASIN 1
1	BASIN BOTTOM ELEVATION	360.00
2	BERM ELEVATION	364.00
3	BERM WIDTH	14'
4	BASIN SIDE SLOPE-INSIDE (Z:1)	3
5	BASIN SIDE SLOPE-OUTSIDE (Z:1)	3
6	OUTLET PIPE	18"Ø SLCPP
7	INFLOW INVERT ELEVATION	353.06
8	OUTFLOW INVERT ELEVATION	352.34
9	SPILLWAY ELEVATION	362.75
10	SPILLWAY WIDTH	25
11	SPILLWAY LINING	DS75

REV	DATE	COMMENTS	BY	CHKD
1	07.10.2024	INTIAL SUBMISSION	CRP	CMJ

ISSUE / REVISIONS

IVIC civil
1029 MUMMA ROAD
2ND FLOOR
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www.liviccivil.com

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PROJECT No:	1190-04
DATE:	JULY 10, 2024
SCALE:	AS SHOWN
DRAWN BY: CRP	CHECKED BY: CMJ

PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT

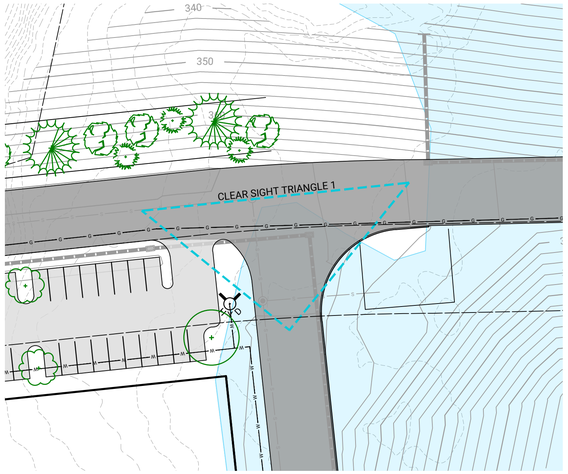
HCI DP LAND ACQUISITION LLC
1780 S. POST OAK LANE
HOUSTON, TX, 77056
PHONE: (240) 503-6522

SHEET TITLE

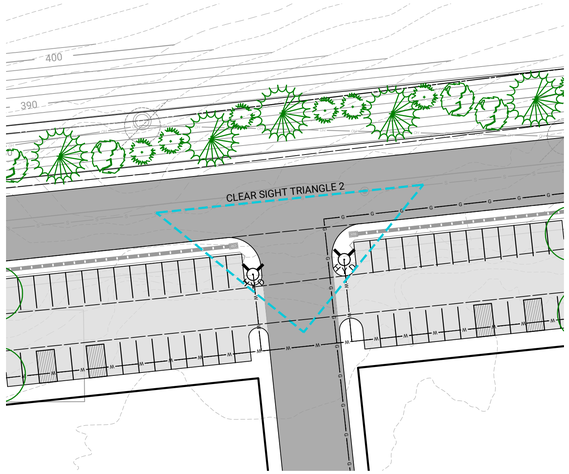
DETAILS

SHEET NO.

C803



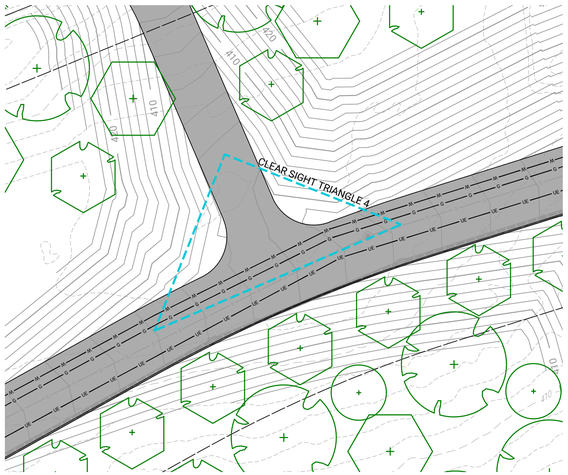
CLEAR SIGHT TRIANGLE 1
ENLARGEMENT DETAIL
SCALE: 1" = 40'



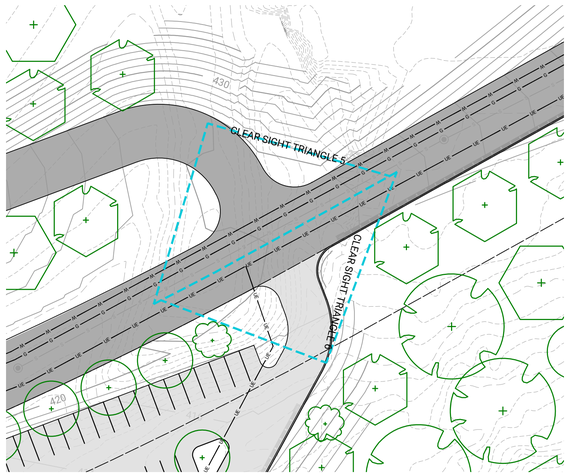
CLEAR SIGHT TRIANGLE 2
ENLARGEMENT DETAIL
SCALE: 1" = 40'



CLEAR SIGHT TRIANGLE 3
ENLARGEMENT DETAIL
SCALE: 1" = 40'



CLEAR SIGHT TRIANGLE 4
ENLARGEMENT DETAIL
SCALE: 1" = 40'



CLEAR SIGHT TRIANGLES 5 & 6
ENLARGEMENT DETAIL
SCALE: 1" = 40'

40 0 40 80 FT
HORIZONTAL SCALE: 1 INCH = 40 FEET

REV	DATE	COMMENTS	BY	CHKD
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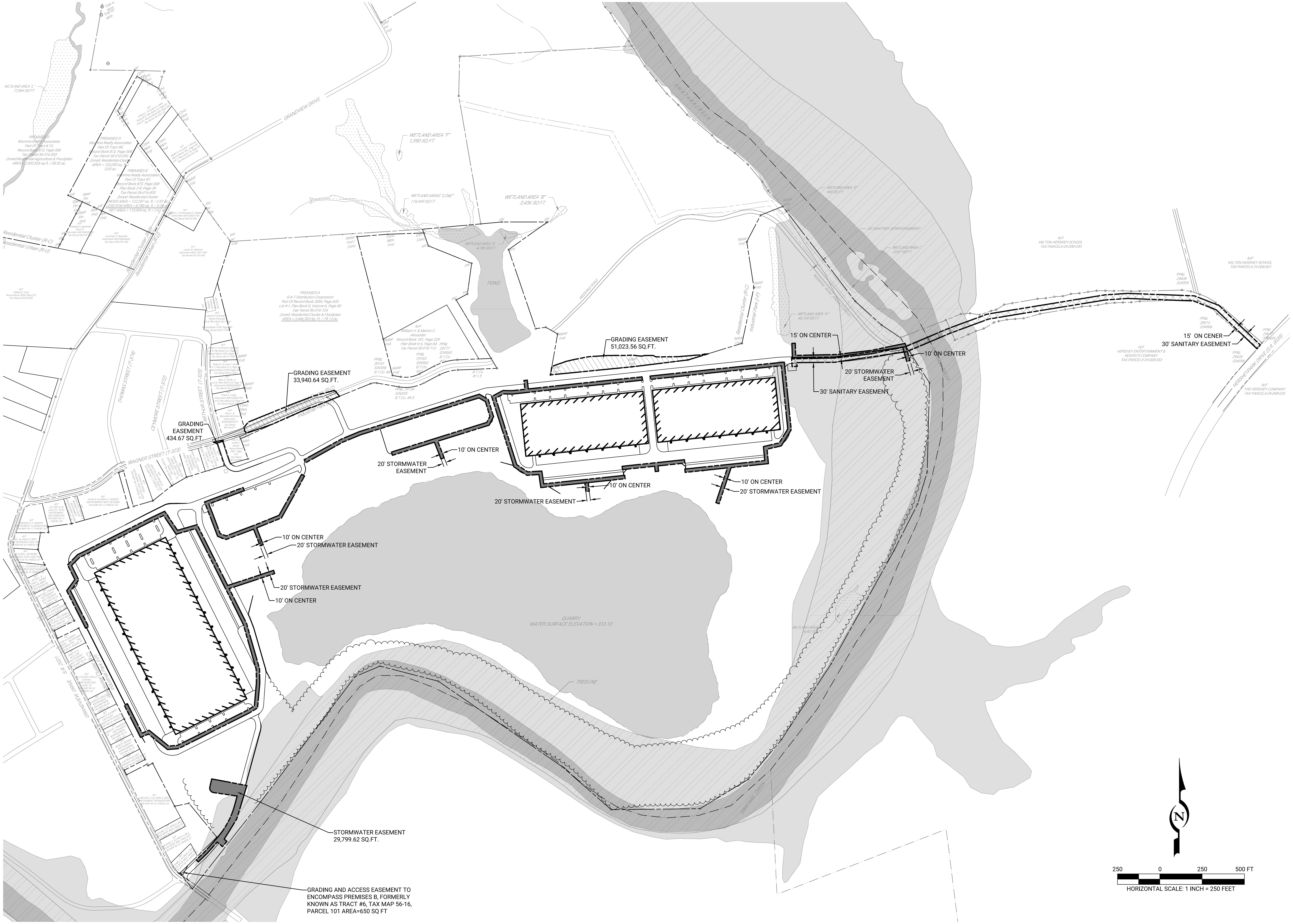
PROJECT
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SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

CLIENT
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SHEET TITLE
DETAILS

SHEET NO.
C804



REV	DATE	COMMENTS	BY	CHKD
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PROJECT

HUMMELSTOWN QUARRY - INDUSTRIAL PARK

SOUTH HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

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SHEET TITLE

EASEMENT PLAN

SHEET NO.

C901