

LOCATION MAP:
 CR CONSERVATION & RECREATION
 MHP MANUFACTURING RESIDENTIAL
 WS WATERSHED
 (IN FEET) 1 inch = 800 ft.

TABULATION OF SHEETS

SHEET NUMBERS	DESCRIPTION
1	TITLE PLAN
*2-3	RECORD PLAN
4	AERIAL PHOTOGRAPH PLAN
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9-11	UTILITY PLAN
12-13	LANDSCAPE PLAN
14	LANDSCAPE DETAIL PLANS
*15-22	POST CONSTRUCTION STORMWATER MANAGEMENT PLANS
23-24	DEMOLITION WITH EROSION CONTROL PLAN
25-26	TEMPORARY GRADING FOR SEDIMENT FACILITY CONSTRUCTION WITH EROSION CONTROL PLAN
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30-34	EROSION CONTROL DETAIL PLAN
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46	SAFE SIGHT DISTANCE DETAILS PLAN
47	TRAFFIC CONTROL DETAILS
48	GENERAL CONSTRUCTION DETAIL PLAN
49	TRUCK TURN PATH PLAN

* - SHEETS 2, 3, 15 THROUGH 22 - (TO BE RECORDED)

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183291500

REVISIONS	
DATE	DESCRIPTION

PRELIMINARY SUBDIVISION AND LAND DEVELOPMENT PLANS

PREPARED FOR

R H G PROPERTIES, LLC

- GALENA RESERVE MOBILE HOME PARK -

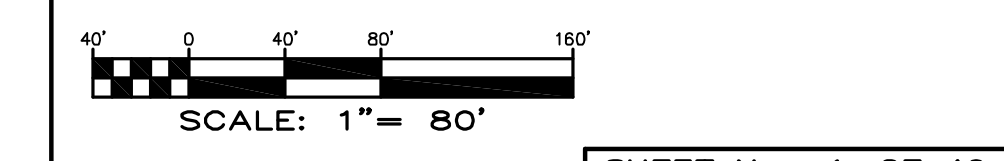
NEW BRITIAN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

**GALENA RESERVE MOBILE HOME PARK
 TITLE PLAN**

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITIAN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

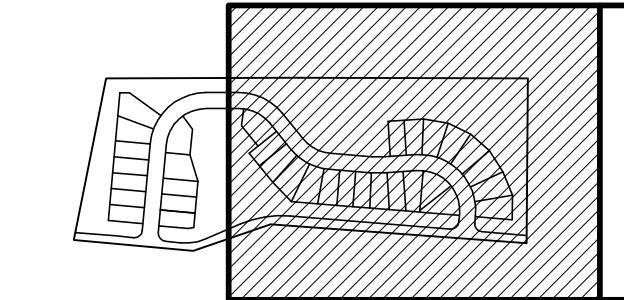
SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND



SHEET No. 1 OF 49

RIZZO, KRISTEN L. & STEPHEN
PARID: 26-012-048-001
INSTRUMENT No.: 201600612

ROBINSON, WILLIAM C. & MARLES A.
PARID: 26-012-049
DEED BOOK: 243, PAGE: 0480



Commonwealth of Pennsylvania
County of Bucks
On the _____ day of _____, 20____, before me
the subscriber, a Notary Public of the Commonwealth of Pennsylvania,
residing in _____, personally appeared _____
(name of officer of corporation),
who acknowledged (himself/herself) to be the (president/secretary) of

(name of the corporation),
a corporation, and that as such (president or secretary), being authorized
to do so, (he/she) executed the foregoing plan by signing that the said
corporation is the registered owner of the designated land, that all
necessary approvals of the plan have been obtained and is endorsed
thereon, and that (he/she/they) desire that the foregoing plan be
recorded according to law.
Witness my hand and notarial seal, the day and year aforesaid.

My Commission Expires (SEAL) _____ Notary Public
(I/We) _____ have laid out upon (my/our) land
situate in the Township of New Britain, County of Bucks, Commonwealth of
Pennsylvania, certain lots and streets according to the accompanying plan
which is intended to be recorded. Witness my hand and seal this _____
day of _____, 20____.

Approved by the Board of Supervisors of the Township of New Britain
this _____ day of _____, 20____.

Approved by the Planning Commission Chairman of the Township of New
Britain this _____ day of _____, 20____.

Reviewed by Township Engineer.
Township Engineer _____ DATE _____

BCPC No. _____
PROCESSED AND REVIEWED. Report prepared by the Bucks County Planning
Commission in accordance with the Municipalities Planning Code.
Certified this date _____

Executive Director, Bucks County Planning Commission

Recorded in the office of the Recorder of Deeds, Bucks County,
Pennsylvania in Plan Book _____ Page _____ on the
_____ day of _____, 20____.

Recorder of Deeds

I hereby certify that this plan represents a survey made by me and the
monuments shown thereon exist as located, and that all dimensional and
geodetic details are correct.

PAUL YASKOWSKI, PLS. NO. SU28869-E DATE _____

I hereby certify to the best of my knowledge that the Stormwater
Management (SWM) site plan meets all design standards and criteria of
New Britain Township.

ALAN C. BREYER, P.E. NO. 25546-E DATE _____

I do hereby certify that the delineation of the wetlands shown on this
plan is in accordance with the findings of my field investigation and that I
have determined these limits based upon the CORP of Engineers guidelines.

DR. JOHN SZCZEPANSKI, PHD DATE _____

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UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY
CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION.
REFERENCE NUMBER: 20183251550

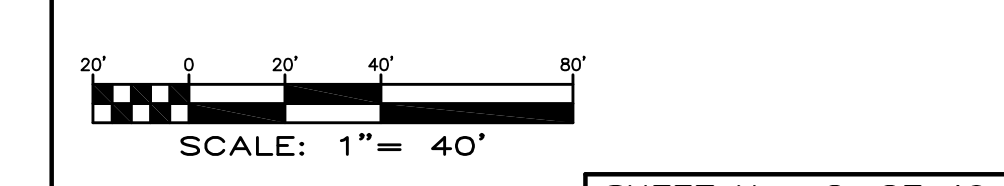
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK RECORD PLAN (1 OF 2)

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND



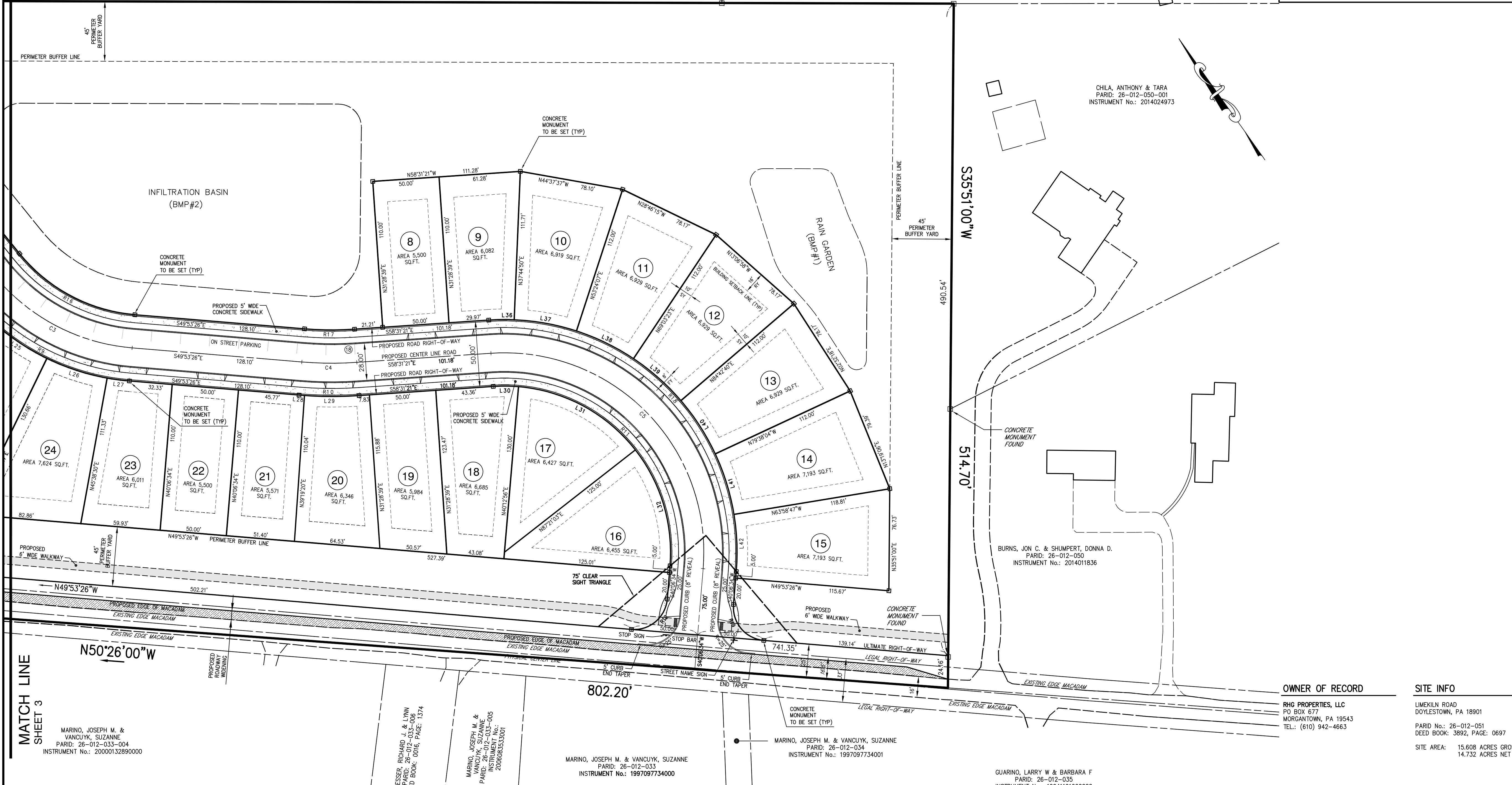
URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com

S54°29'12"E

742.30'

CONCRETE MONUMENT FOUND
(VAN CLEFF ENGINEERING STAMP)

CONCRETE MONUMENT FOUND



MATCH LINE
SHEET 3

MARINO, JOSEPH M. &
VANCUIK, SUZANNE
PARID: 26-012-033-004
INSTRUMENT No.: 200013289000

FREES, RICHARD J. & LYNN
PARID: 26-012-033-006
DEED BOOK: 006, PAGE: 1374

MARINO, JOSEPH M. &
VANCUIK, SUZANNE
PARID: 26-012-033-005
INSTRUMENT No.: 200008333001

MARINO, JOSEPH M. & VANCUIK, SUZANNE
PARID: 26-012-033
INSTRUMENT No.: 199709734000

MARINO, JOSEPH M. & VANCUIK, SUZANNE
PARID: 26-012-034
INSTRUMENT No.: 199709734001

GUARINO, LARRY W. & BARBARA F.
PARID: 26-012-035
INSTRUMENT No.: 1994191660000

OWNER OF RECORD

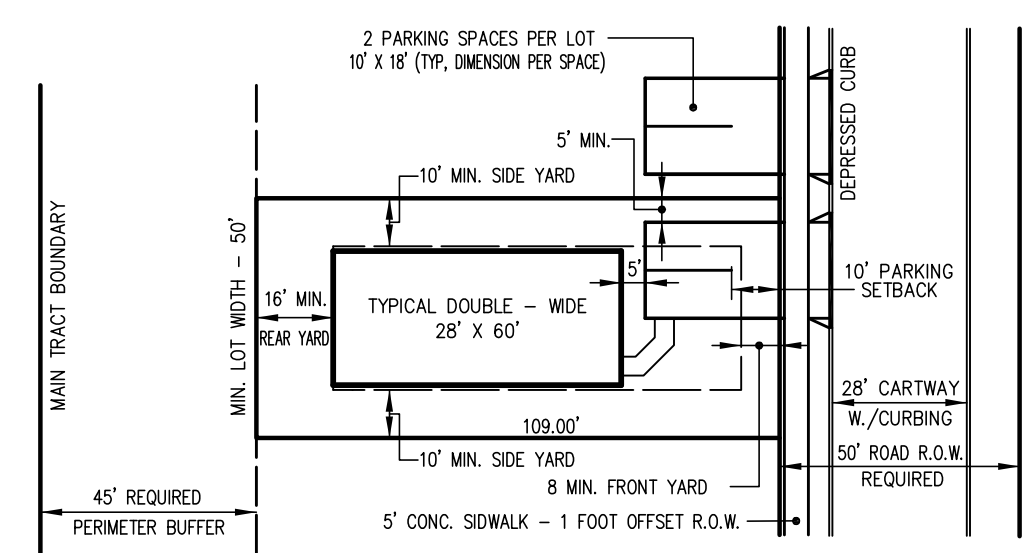
RHG PROPERTIES, LLC
PO BOX 677
MORGANTOWN, PA 19543
TEL.: (610) 942-4663

SITE INFO

LIMEKILN ROAD
DOYLESTOWN, PA 18901
PARID No.: 26-012-051
DEED BOOK: 3892, PAGE: 0697
SITE AREA: 15.608 ACRES GROSS
14.732 ACRES NET

LIMEKILN ROAD (T-350) (UNPOSTED SPEED LIMIT)

CURVE TABLE			
CURVE	LENGTH (FT)	RADIUS (FT)	CHORD LENGTH (FT)
PROPOSED CENTER LINE ROAD			
C3	121.21	150.00	S26°44'32"E 117.93
C4	41.43	275.00	S54°12'24"E 41.39
C5	258.22	150.00	N09°12'24"W 227.49
PROPOSED ROAD RIGHT-OF-WAY			
R9	141.41	175.00	S26°44'32"E 137.59
R10	45.20	300.00	S54°12'24"E 45.15
R11	215.18	125.00	N09°12'24"W 189.58
R12	39.27	25.00	S54°12'24"E 35.36
R16	101.00	125.00	N85°06'34"E 98.28
R17	37.66	250.00	S54°12'24"E 37.63
R18	301.25	175.00	N09°12'24"W 265.41
R19	39.27	25.00	S04°53'26"E 35.36
PROPOSED LOTS			
L25	47.81	175.00	S20°52'35"E 47.67
L26	47.81	175.00	S36°31'52"E 47.67
L27	16.90	175.00	S47°07'22"E 16.89
L28	4.12	300.00	S50°17'03"E 4.12
L29	41.08	300.00	S54°36'00"E 41.04
L30	19.06	125.00	N54°09'12"W 19.05
L31	102.83	125.00	N26°13'01"W 99.96
L32	93.28	125.00	N18°43'48"E 91.14
L36	19.15	175.00	S45°44'32"E 19.14
L37	47.81	175.00	N55°23'15"W 47.67
L38	47.81	175.00	N28°46'15"W 47.67
L39	47.81	175.00	N13°06'58"W 47.67
L40	47.81	175.00	N02°32'18"E 47.67
L41	47.81	175.00	N18°11'35"E 47.67
L42	43.03	175.00	N33°03'53"E 42.92



TOTAL TRACT IMPERVIOUS SURFACE CALCULATIONS

1,559 L.F. PROPOSED ROAD (R.O.W. TO R.O.W.)	43,653 S.F.
CARTWAY - 28' WIDE	15,990 S.F.
SIDEWALK 5' WIDE BOTH SIDES	3,960 S.F.
DRIVES WITHIN R.O.W.	3,960 S.F.
PROPOSED DWELLINGS	55,440 S.F.
33 AT 28' X 60'	55,440 S.F.
PROPOSED PUMP STATION	800 S.F.
BUILDING AND PARKING	800 S.F.
ON LOT PARKING (INCLUDES 10' APPROACH)	18,480 S.F.
66 SPACES AT 28 X 10	18,480 S.F.
ON LOT WALKWAYS - 4' WIDE (25' L.F. ALLOCATION)	3,300 S.F.
25 L.F. PER UNIT	3,300 S.F.
PROPOSED 6' WIDE WALKWAY	8,845 S.F.
TOTAL IMPERVIOUS SURFACE	150,068 S.F. (3,445 ACRES)
	23.39 % OF BASE SITE AREA

* THE STORMWATER FACILITIES ARE DESIGNED FOR
MAXIMUM ALLOWABLE IMPERVIOUS AREA (25%) = 3,683 ACRES

PROPOSED PARKING

ON STREET PARKING PROVIDED - 34 PARKING SPACES
OFF STREET PARKING PROVIDED - 66 PARKING SPACES *2 SPACES PER UNIT*
TOTAL PARKING PROVIDED - 100 PARKING SPACES
PUMP STATION EMPLOYEE PARKING PROVIDED - 2 PARKING SPACES

ZONING DATA: MHP - MANUFACTURING HOME PARK DISTRICT

DIMENSIONAL STANDARDS - B9 USE - MOBILE HOME PARK II - AGE RESTRICTED UNITS		
	REQUIRED	PROVIDED
MINIMUM LOT AREA - SINGLE WIDE	3,600 SQUARE FEET	N/A
MINIMUM LOT AREA - DOUBLE WIDE	4,500 SQUARE FEET	4,500 SQUARE FEET (MIN.)
MIN. WIDTH AT BUILDING SETBACK LINE - SINGLE WIDE	36 FEET	N/A
MIN. WIDTH AT BUILDING SETBACK LINE - DOUBLE WIDE	50 FEET	50 FEET (MIN.)
MINIMUM YARDS SETBACK:		
FRONT	8 FEET	8 FEET (MIN.)
SIDE	10 FEET	10 FEET (MIN.)
REAR	16 FEET	16 FEET (MIN.)
MAXIMUM BUILDING COVERAGE RATIO - SINGLE WIDE	30 PERCENT	N/A
MAXIMUM BUILDING COVERAGE RATIO - DOUBLE WIDE	35 PERCENT	31.11 PERCENT (MAX.)
MINIMUM SITE AREA	10 ACRES	14.73 ACRES (NET)
MAXIMUM DENSITY	6.0 D.U./ACRE	2.25 D.U./ACRE
MAXIMUM IMPERVIOUS SURFACE RATIO	25 PERCENT	23.39 PERCENT
MINIMUM OPEN SPACE RATIO	30 PERCENT	55.10 PERCENT



- GENERAL NOTES:**
1. PROPERTY BOUNDARY SURVEYED AND CALCULATED BY URWILER & WALTER, INC. IN JANUARY 2019.
 2. TOTAL TRACT AREA: 15.608 ACRES GROSS; 14.732 ACRES NET
 3. PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION 'X' - AREA OF MINIMAL FLOOD HAZARD (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY FEMA, ON FLOOD INSURANCE RATE MAP NO. 283 OF 532, WITH A MAP REVISED DATE OF MARCH 16, 2015, MAP NUMBER 42017C0283J, IN BUCKS COUNTY, STATE OF PENNSYLVANIA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH THE PREMISES IS SITUATED.
 4. AERIAL IMAGE TAKEN FROM BUCKS COUNTY MAPS AND DATA PORTAL WEBSITE, IMAGERY DATE 2021.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

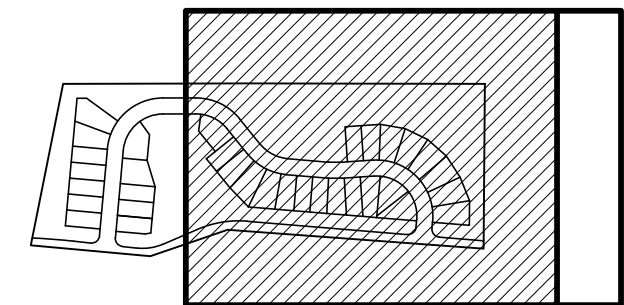
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
AERIAL PHOTOGRAPH PLAN
GALENA RESERVE
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND





KEY MAP

GENERAL NOTES

- PROPERTY BOUNDARY SURVEYED AND CALCULATED BY URWILER & WALTER, INC. IN JANUARY 2019.
- TOTAL TRACT AREA: 15,608 ACRES GROSS; 14,732 ACRES NET
- TOPOGRAPHY SURVEY PERFORMED BY URWILER & WALTER, INC. JANUARY 2019.
- HORIZONTAL DATUM: (NAD 83) NORTH AMERICAN DATUM OF 1983.
- BENCHMARK:
ELEVATION: 467.51
DESCRIPTION: TRENCH DRAIN GRATE
LOCATION: APPROXIMATELY 380 FEET NORTHWESTERLY DIRECTION FROM THE MOST SOUTHEAST PROPERTY CORNER ALONG LIMEKILN ROAD "AS NOTED ON PLAN".
DATUM: (NGVD 88) NORTH AMERICAN VERTICAL DATUM OF 1988
- PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X" - AREA OF MINIMAL FLOOD HAZARD (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY FEMA, ON FLOOD INSURANCE RATE MAP NO. 283 OF 532, WITH A MAP REVISED DATE OF MARCH 16, 2015, MAP NUMBER 4201700283J, IN BUCKS COUNTY, STATE OF PENNSYLVANIA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH THE PREMISES IS SITUATED.
- WETLAND DETERMINATION CONDUCTED BY NOVA CONSULTANTS, LTD. AND VERIFIED BY THE UNITED STATES ARMY CORP OF ENGINEERS ON JULY 29, 2020. TOTAL AREA OF WETLAND AREA 13,480 SQUARE FEET / 0.309 ACRES.
- AERIAL IMAGE TAKEN FROM BUCKS COUNTY MAPS AND DATA PORTAL WEBSITE. IMAGERY DATE 2021.
- REFER TO SHEET 23 & 24 FOR DEMOLITION OF EXISTING FEATURES WITHIN PROPERTY BOUNDARY.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183261500

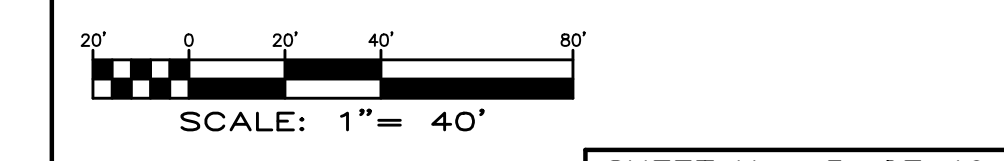
REVISIONS

DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
EXISTING FEATURES and
NATURAL RESOURCE PLAN (1 OF 2)
GALENA RESERVE
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

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 CIVIL ENGINEERS & SURVEYORS
 P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
 PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com



LEGEND

EXISTING CONTOUR	
EXISTING EDGE OF STONE	
EXISTING EDGE OF MACADAM	
EXISTING EDGE OF WOODS	
EXISTING TREES	
EXISTING STORM SEWER	
SOIL TYPES	
WETLANDS	
WETLAND FLAG POINT	
WETLAND TEST BORING	
PROPERTY BOUNDARY	
ULTIMATE RIGHT-OF-WAY	
BUILDING SETBACK LINE	
ADJOINING PROPERTY LINE	
EXISTING OVERHEAD WIRES	
EXISTING UTILITY POLE	
EXISTING TREES STANDING ALONE (TO BE REMOVED)	
EXISTING OVERHEAD WIRES (TO BE RELOCATED)	
EXISTING UTILITY POLE (TO BE RELOCATED)	
EXISTING UNDERGROUND CONDUIT (TO BE RELOCATED) W/ POLE	
EXISTING ITEM (TO BE REMOVED)	

SITE CAPACITY CALCULATIONS

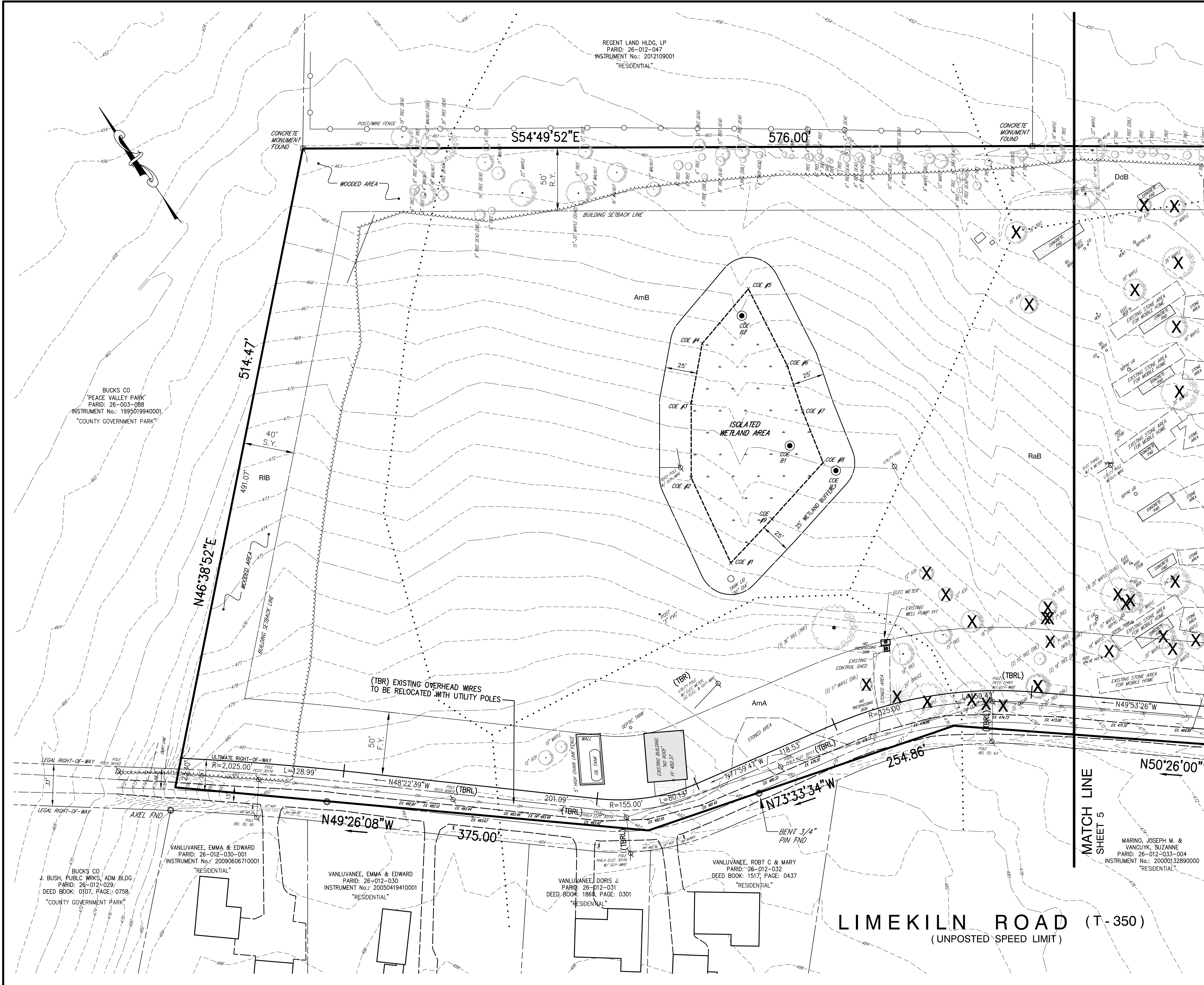
RESOURCE	PROTECTION RATIO	AREA OF RESOURCE	PROTECTED RESOURCE	ALLOWABLE DISTURBED RESOURCE	PROPOSED DISTURBED RESOURCE
WATERCOURSES	1.0	0 ACRES	0 ACRES	0 ACRES	0 ACRES
RIPARIAN BUFFER	1.0	0 ACRES	0 ACRES	0 ACRES	0 ACRES
FLOODPLAIN	1.0	0 ACRES	0 ACRES	0 ACRES	0 ACRES
FLOODPLAIN (ALLUVIAL) SOIL	1.0	0 ACRES	0 ACRES	0 ACRES	0 ACRES
WETLANDS	1.0	0.309 ACRES	0.309 ACRES	0 ACRES	0 ACRES
LAKES / PONDS	1.0	0 ACRES	0 ACRES	0 ACRES	0 ACRES
WETLAND MARGIN	0.8	0.329 ACRES	0.263 ACRES	0.066 ACRES	0.025 ACRES
WOODLANDS	0.8	2,680 ACRES	2,144 ACRES	0.536 ACRES	0.320 ACRES
8% TO 15% SLOPES	0.6	0 ACRES	0 ACRES	0 ACRES	0 ACRES
15% TO 25% SLOPES	0.7	0 ACRES	0 ACRES	0 ACRES	0 ACRES
25% + SLOPES	0.85	0 ACRES	0 ACRES	0 ACRES	0 ACRES
* ISOLATED AREAS CREATED BY FORMER ROAD WAYS AND PAD SITES					
TOTAL LAND IN RESOURCE PROTECTION		3,318 ACRES	2,716 ACRES		
TOTAL LAND WITH 1.0 PROTECTION RATIO		0.309 ACRES	0.309 ACRES		
TOTAL RESOURCE PROTECTION LAND PROVIDED			2,716 ACRES		
TOTAL DISTURBED AREA				0.602 ACRES	0.345 ACRES

GROSS SITE AREA	15,608 ACRES
ULTIMATE R.O.W.	0.876 ACRES
NON-CONTIGUOUS LAND	0 ACRES
PREVIOUSLY RESERVED LAND	0 ACRES
LAND WITH OTHER USES	0 ACRES
BASE SITE AREA	14,732 ACRES

MINIMUM OPEN SPACE	14,732 ACRES X 0.30 = 4,420 ACRES
STANDARD MINIMUM OPEN SPACE	4,420 ACRES
REQUIRED OPEN SPACE	4,420 ACRES
NET BUILDABLE SITE AREA	14,732 ACRES MINUS 4,420 ACRES = 10,312 ACRES
ALLOWABLE DENSITY	10,321 ACRES X 6 DWELLING UNITS PER ACRE = 61 DWELLING UNITS
ALLOWABLE IMPERVIOUS SURFACE AREA	14,732 ACRES X 0.25 = 3,683 ACRES

OPEN SPACE CALCULATIONS

REQUIRED OPEN SPACE = BASE SITE AREA X 0.30	4,420 ACRES
PROVIDED OPEN SPACE = 8,117 ACRES, EXCLUDES LOTTED PARCELS AND ROAD RIGHT OF WAY	8,117 ACRES
OPEN SPACE WITHIN BUFFER	3,549 ACRES
OTHER OPEN SPACE	4,568 ACRES
TOTAL OPEN SPACE	8,117 ACRES



SOIL DATA:

SOILS DATA OBTAINED FROM USDA-NATURAL RESOURCES CONSERVATION SERVICES-WEBSOIL SURVEY-NATURAL COOPERATIVE SOIL SURVEY.

AmA AMWELL SILT LOAM, 0 TO 3 PERCENT SLOPES
HYDROLOGIC SOIL GROUP "D", HYDRIC SOIL "NO"
FARMLAND CLASSIFICATION: FARMLAND OF STATEWIDE IMPORTANCE

AmB AMWELL SILT LOAM, 3 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP "D", HYDRIC SOIL "NO"
FARMLAND CLASSIFICATION: FARMLAND OF STATEWIDE IMPORTANCE

DdB DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP "C/D", HYDRIC SOIL "YES"
FARMLAND CLASSIFICATION: NOT PRIME FARMLAND

RaB RARITAN SILT LOAM, 3 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP "C/D", HYDRIC SOIL "NO"
FARMLAND CLASSIFICATION: PRIME FARMLAND

ReA READINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES
HYDROLOGIC SOIL GROUP "C", HYDRIC SOIL "NO"
FARMLAND CLASSIFICATION: PRIME FARMLAND

RIB REAVILLE CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
HYDROLOGIC SOIL GROUP "D", HYDRIC SOIL "NO"
FARMLAND CLASSIFICATION: FARMLAND OF STATEWIDE IMPORTANCE

SOIL LIMITATION

NOTE:
THIS IS NOT AN ALL-INCLUSIVE LIST
ABSENCE OF AN X DOSE NOT MEAN "NO POTENTIAL LIMITATION"
FOR MORE COMPREHENSIVE LIST OF SOIL LIMITATIONS, LOG ONTO THE NRCS WEBSITE AT: <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

SOIL NAME	CUTBANKS CAVE	CORROSIVE TO CONCRETE / STEEL	DROUGHTY	EASILY ERODIBLE	DEPTH TO SATURATION ZONE / SEASONAL HIGH WATER TABLE	HYDRIC / HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	PONDING	POTENTIAL SHINKHOLE	WETNESS
AMWELL	X	C/S	X	X	X	X	X	X	X	X	X	X	X	X
DOYLESTOWN	X	C/S	X	X	X	X	X	X	X	X	X	X	X	X
RARITAN	X	C/S	X	X	X	X	X	X	X	X	X	X	X	X
READINGTON	X	C/S	X	X	X	X	X	X	X	X	X	X	X	X
REAVILLE	X	C/S	X	X	X	X	X	X	X	X	X	X	X	X

SOIL LIMITATION DEFINITION

CUTBANKS CAVE - GRADE ALL SLOPES TO 4:1 OR FLATTER.

CORROSIVE TO CONCRETE / STEEL - PROVIDE POLYMERS TO PROTECT CONCRETE AND STEEL.

DROUGHTY - IRRIGATE SOILS TO PREVENT WILTING.

EASILY ERODIBLE - STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION OR PROVIDE EROSION AND SEDIMENTATION CONTROL DEVICES AND FACILITIES TO RETAIN ENTRAINED SEDIMENT ON-SITE.

FLOODING - MINIMIZE OR ELIMINATE CONSTRUCTION WITHIN MAPPED AND ALLUVIAL SOILS.

DEPTH TO SATURATION ZONE / SEASONAL HIGH WATER TABLE - PROVIDE UNDERDRAINS TO ELIMINATE A PERSISTENT HIGH WATER TABLE. FOR OCCASIONAL HIGH WATER TABLE, PUMP WATER FROM TRENCHES / FOOTINGS TO A PUMP-WATER FILTER BAG.

HYDRIC / HYDRIC INCLUSIONS - HYDRIC SOILS HAVE BEEN MAPPED BY NOVA CONSULTANTS, INC. NO WETLAND IMPACTS ARE PROPOSED FOR THIS PROJECT.

LOW STRENGTH / LANDSLIDE PRONE - GRADE SOILS TO 4:1 OR FLATTER.

SLOW PERCOLATION - ADD SAND OR ORGANICS TO INCREASE SOIL PERCOLATION RATES.

PIPING - USE ANTI-SEEP COLLARS TO ELIMINATE PIPING.

POOR SOURCE OF TOPSOIL - IMPORT ADEQUATE TOPSOIL OR ADD ORGANIC MATERIAL (MULCH) TO CREATE A SUITABLE TOPSOIL.

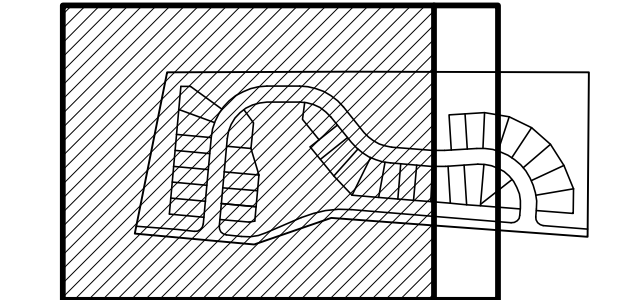
FROST ACTION - MINIMIZE OR ELIMINATE COLD WEATHER CONSTRUCTION. IF POSSIBLE, ADD EXPANSION JOINTS TO MINIMIZE FROST ACTION IMPACTS.

SHRINK / SWELL - MINIMIZE CONTACT WITH WATER.

POTENTIAL SHINKHOLE - PERFORM GEOLOGIC EVALUATION FOR KARST GEOLOGY AND KARST SOIL.

PONDING - PROVIDE POSITIVE GRADING WITH A 2% SLOPE, UNDERDRAINS OR A STORM SEWER CONVEYANCE SYSTEM.

WETNESS - PROVIDE POSITIVE GRADING OR UNDERDRAINS.



- GENERAL NOTES**
- PROPERTY BOUNDARY SURVEYED AND CALCULATED BY URWILER & WALTER, INC. IN JANUARY 2019.
 - TOTAL TRACT AREA: 15,608 ACRES GROSS; 14,732 ACRES NET
 - TOPOGRAPHY SURVEY PERFORMED BY URWILER & WALTER, INC. JANUARY 2019.
 - HORIZONTAL DATUM: (NAD 83) NORTH AMERICAN DATUM OF 1983.
 - BENCHMARK:
ELEVATION: 467.51
DESCRIPTION: TRENCH DRAIN GRATE
LOCATION: APPROXIMATELY 380 FEET NORTHWESTERLY DIRECTION FROM THE MOST SOUTHEAST PROPERTY CORNER ALONG LIMKILN ROAD "AS NOTED ON PLAN".
DATUM: (NGVD 88) NORTH AMERICAN VERTICAL DATUM OF 1988
 - PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X" - AREA OF MINIMAL FLOOD HAZARD (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY FEMA. ON FLOOD INSURANCE RATE MAP NO. 283 OF 532, WITH A MAP REVISED DATE OF MARCH 16, 2015, MAP NUMBER 4201700283J, IN BUCKS COUNTY, STATE OF PENNSYLVANIA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH THE PREMISES IS SITUATED.
 - WETLAND DETERMINATION CONDUCTED BY NOVA CONSULTANTS, LTD. AND VERIFIED BY THE UNITED STATES ARMY CORP OF ENGINEERS ON JULY 29, 2020. TOTAL AREA OF WETLAND AREA 13,480 SQUARE FEET / 0.309 ACRES.
 - AERIAL IMAGE TAKEN FROM BUCKS COUNTY MAPS AND DATA PORTAL WEBSITE. IMAGERY DATE 2021.
 - REFER TO SHEET 23 & 24 FOR DEMOLITION OF EXISTING FEATURES WITHIN PROPERTY BOUNDARY.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183261600

REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK

EXISTING FEATURES and
NATURAL RESOURCE PLAN (2 OF 2)
GALENA RESERVE
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

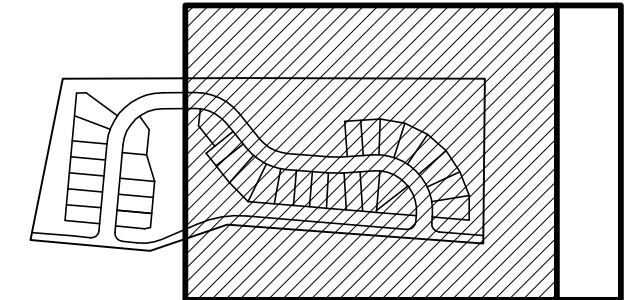
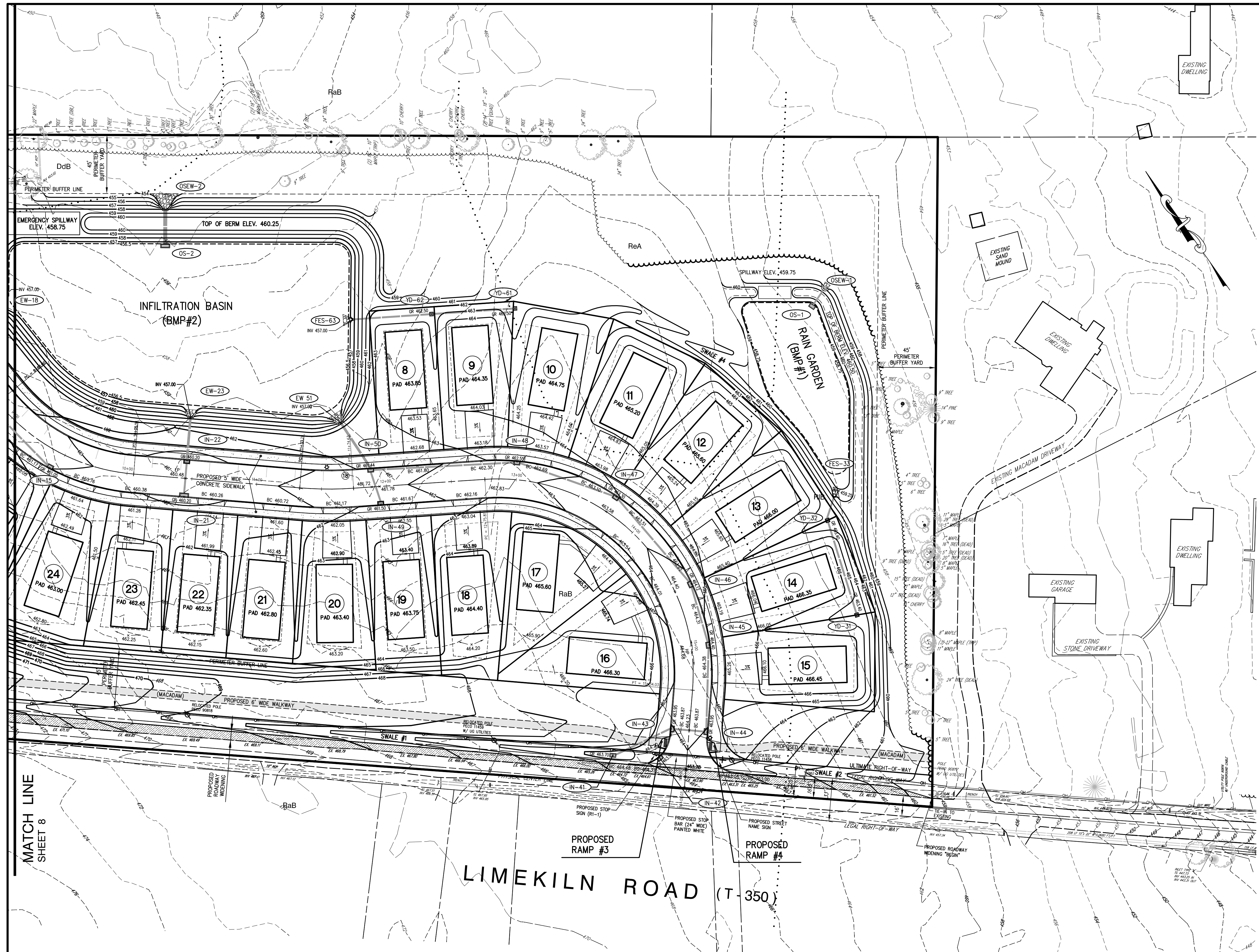
SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND



URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com

PENNSYLVANIA ONE CALL SYSTEM (PENNSYLVANIA 811) UNDERGROUND UTILITY USERS

USER'S NAME	ADDRESS	CONTACT & TELEPHONE/E-MAIL	RESULTS
CHALFONT NEW BRITAIN TWP JT SEWAGE AUTH	1645 UPPER STATE ROAD DOYLESTOWN, PA. 18901	JOHN SCHMIDT jschmidt@nbsa.org	CLEAR - NO FACILITIES
BUCKS COUNTY WATER AND SEWER AUTHORITY	1275 ALMHOUSE ROAD WARRINGTON, PA. 18976	JAMES NAPOLEON n.jon@bcwsa.net	DID NOT RESPOND
AQUA PENNSYLVANIA INC	762 W LANCASTER AVE BRYN MAWR, PA. 19010	STEVE PIZZI spizzi@aquapenn.com	CLEAR - NO FACILITIES
PECO ENERGY C/O USIC	450 S HENDERSON RD, SUITE B KING OF PRUSSIA, PA. 19406	NIKKIA SIMPSON nksimp@peco.com	CONFLICT LINES NEARBY
NEW BRITAIN TOWNSHIP	207 PARK AVENUE CHALFONT, PA. 18914	RYAN CRESSMAN rcressman@newbritaintownship.org	CLEAR - NO FACILITIES
COMCAST CABLEVISION	52 INDUSTRIAL DRIVE IVYLAND, PA. 18974	KATHIE BROWN	CLEAR - NO FACILITIES
VERIZON PENNSYLVANIA LLC	1050 VIRGINIA DRIVE FORT WASHINGTON, PA. 19034	LAURA LIPPINCOTT laura.m.lippincott@one.verizon.com	CONFLICT LINES NEARBY



KEY MAP

LEGEND

- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING EDGE OF STONE
- EXISTING EDGE OF MACADAM
- EXISTING EDGE OF WOODS
- EXISTING TREES
- EXISTING STORM SEWER
- SOIL TYPES
- WETLANDS
- WETLAND FLAG POINT
- WETLAND TEST BORING
- PROPERTY BOUNDARY
- ULTIMATE RIGHT-OF-WAY
- BUILDING SETBACK LINE
- ADJOINING PROPERTY LINE
- BUFFER YARD
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED STORM SEWER
- PROPOSED EDGE OF WOODS
- PROPOSED STREET LIGHT



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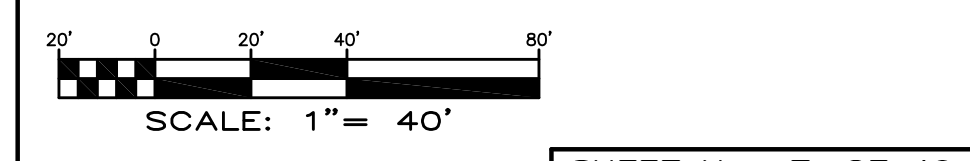
REVISIONS	
DATE	DESCRIPTION

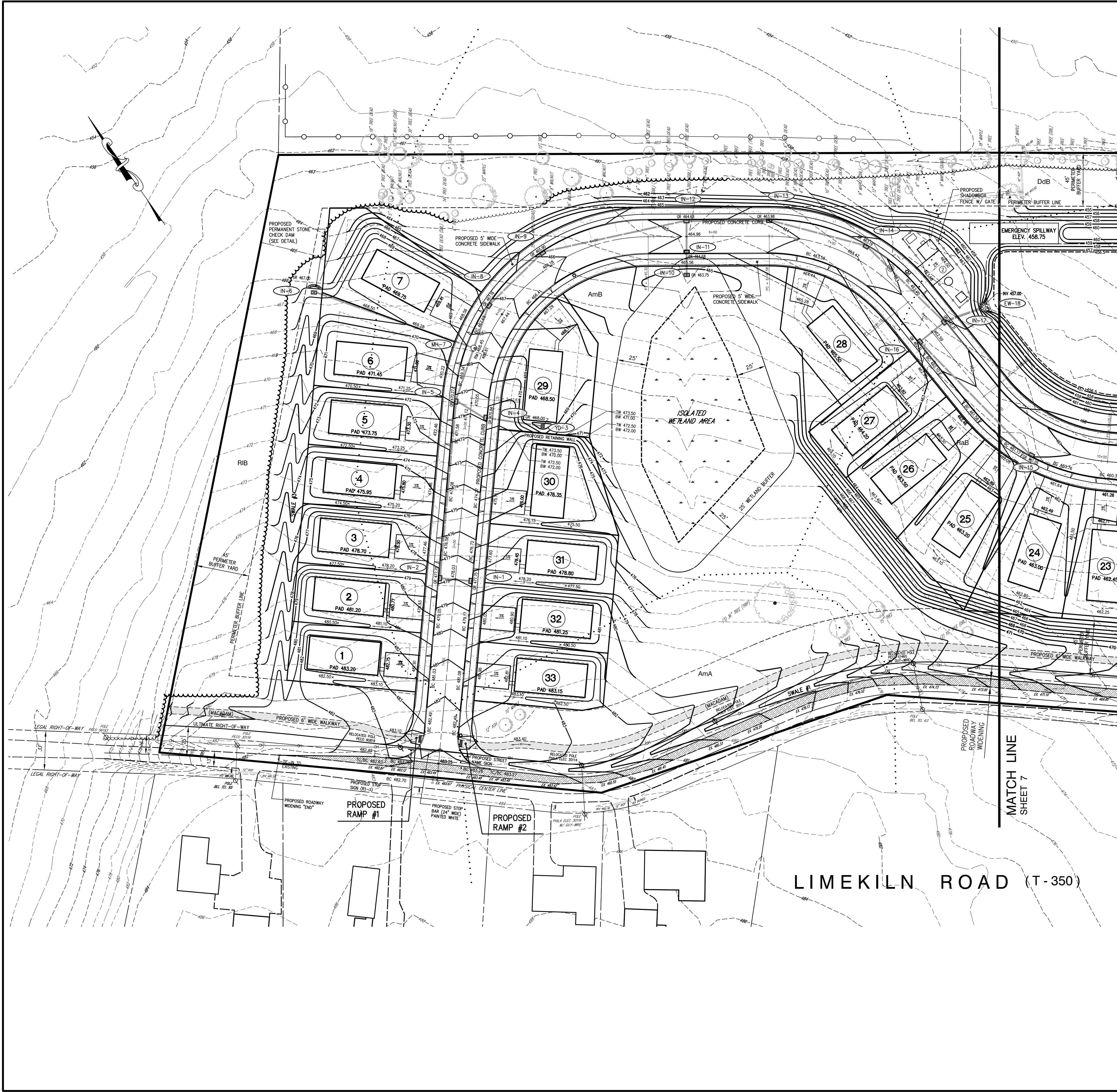
GALENA RESERVE MOBILE HOME PARK GRADING PLAN (1 OF 2)

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

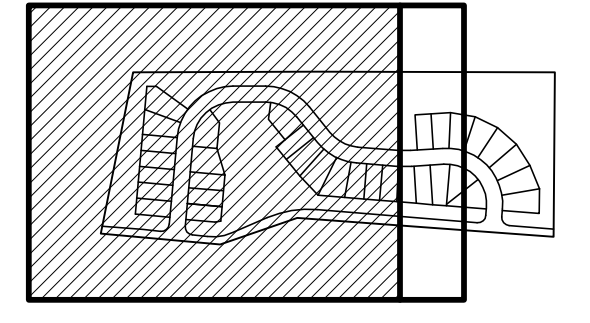
SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND





GRADING NOTES:

- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408B OR TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
- ALL CONTRACTORS PROVIDING CONSTRUCTION SERVICES AT THIS SITE (OR SITE RELATED CONSTRUCTION) SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS. URWILER AND WALTER, INC., TOWNSHIP, ITS AGENTS AND ASSIGNS WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LIABILITY ARISING FROM THE FAILURE OF ANY PARTY TO CONFIRM WITH THE APPLICABLE OSHA STANDARDS AND REGULATIONS.
- SEE PROFILE PLAN FOR INFORMATION RELATED TO STORM SEWERS AND STORM SEWER STRUCTURES.
- ALL DETENTION AND RETENTION BASIN EMBANKMENTS SHALL BE PLACED IN EIGHT INCH MAXIMUM LIFTS AND COMPACTED TO A MINIMUM NINETY FIVE PERCENT DRY DENSITY. PRIOR TO PROCEEDING TO THE NEXT LIFT, COMPACTION SHALL BE CHECKED BY AN APPROVED SOILS ENGINEER WHO SHALL PROVIDE THE TOWNSHIP ENGINEER WITH A WRITTEN REPORT. COMPACTION TESTS SHALL BE PERFORMED USING THE MODIFIED PROCTOR METHOD IN ACCORDANCE WITH ASTM D-1577.
- IN THE EVENT OF DISCREPANCIES AND IN CONFLICTS BETWEEN PLANS, THE SITE PLAN SHALL TAKE PRECEDENCE AND CONTROL. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN WRITING OF ANY DISCREPANCIES AND OR CONFLICTS.
- TOP AND BOTTOM OF WALL ELEVATIONS (TW & BW) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF WALL AND DO NOT REPRESENT THE ELEVATION OF THE PROPOSED WALL (INCLUDING THE CAP UNIT OR FOOTING). WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE ALL WALLS SHOWN HEREON MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER AND THAT SIGNED AND SEALED SHOP DRAWINGS ARE APPROVED BY THE MUNICIPALITY PRIOR TO THEIR CONSTRUCTION. FURTHER THE CONTRACTOR SHALL ENSURE THAT FENCING, GUIDERAIL, UTILITIES, AND OTHER SITE AMENITIES IN THE VICINITY OF THE RETAINING WALL(S) PROPOSED SCHEMATICALLY IN THESE PLANS, SHALL BE CONSIDERED AND INCORPORATED INTO THE RETAINING WALL DESIGN (BY OTHERS).
- ALL SURFACE AREAS SHALL BE PROPERLY GRADED TO ENSURE PROPER DRAINAGE AWAY FROM BUILDINGS TO NEAREST INLET OR WATERCOURSE WITHOUT PONDING OR OBSTRUCTION.
- THE MAXIMUM UNPAVED SLOPE IS 3:1 AND THE MINIMUM PAVED SLOPE IS 1%.
- THE ROOF DRAIN DOWNSPOUT SHALL DISCHARGE TO GRADE AND VEGETATED AREA AND SHALL BE DIRECTED TO FLOW AWAY FROM THE CONCRETE PAD.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE LATEST CIVIL PLANS AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND URWILER AND WALTER, INC., IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
- DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.
- THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE.
- ANY SPRING ENCOUNTERED DURING ROADWAY CONSTRUCTION SHALL BE OULETTED BY U-DRAIN TO NEAREST STORM SEWER FACILITY OR WATERCOURSE. U-DRAIN PLACEMENT TO BE BY THE DIRECTION OF THE TOWNSHIP ENGINEER.
- REFER TO SHEET 43 FOR HANDICAP RAMP ENLARGEMENT AND DETAILS.



LEGEND

EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	482.50
EXISTING EDGE OF STONE	---
EXISTING EDGE OF MACADAM	---
EXISTING EDGE OF WOODS	---
EXISTING TREES	☀
EXISTING STORM SEWER	---
SOIL TYPES	---
WETLANDS	---
WETLAND FLAG POINT	☉
WETLAND TEST BORING	☉
PROPERTY BOUNDARY	---
ULTIMATE RIGHT-OF-WAY	---
BUILDING SETBACK LINE	---
ADJOINING PROPERTY LINE	---
BUFFER YARD	---
PROPOSED CONTOUR	---
PROPOSED SPOT ELEVATION	482.50
PROPOSED STORM SEWER	---
PROPOSED EDGE OF WOODS	---
PROPOSED STREET LIGHT	☼

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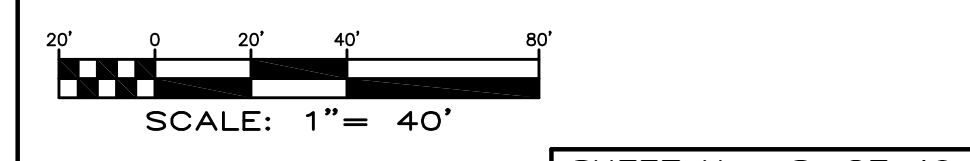
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK GRADING PLAN (2 OF 2)

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

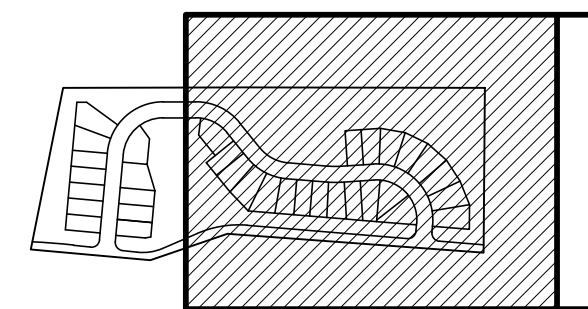
SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND



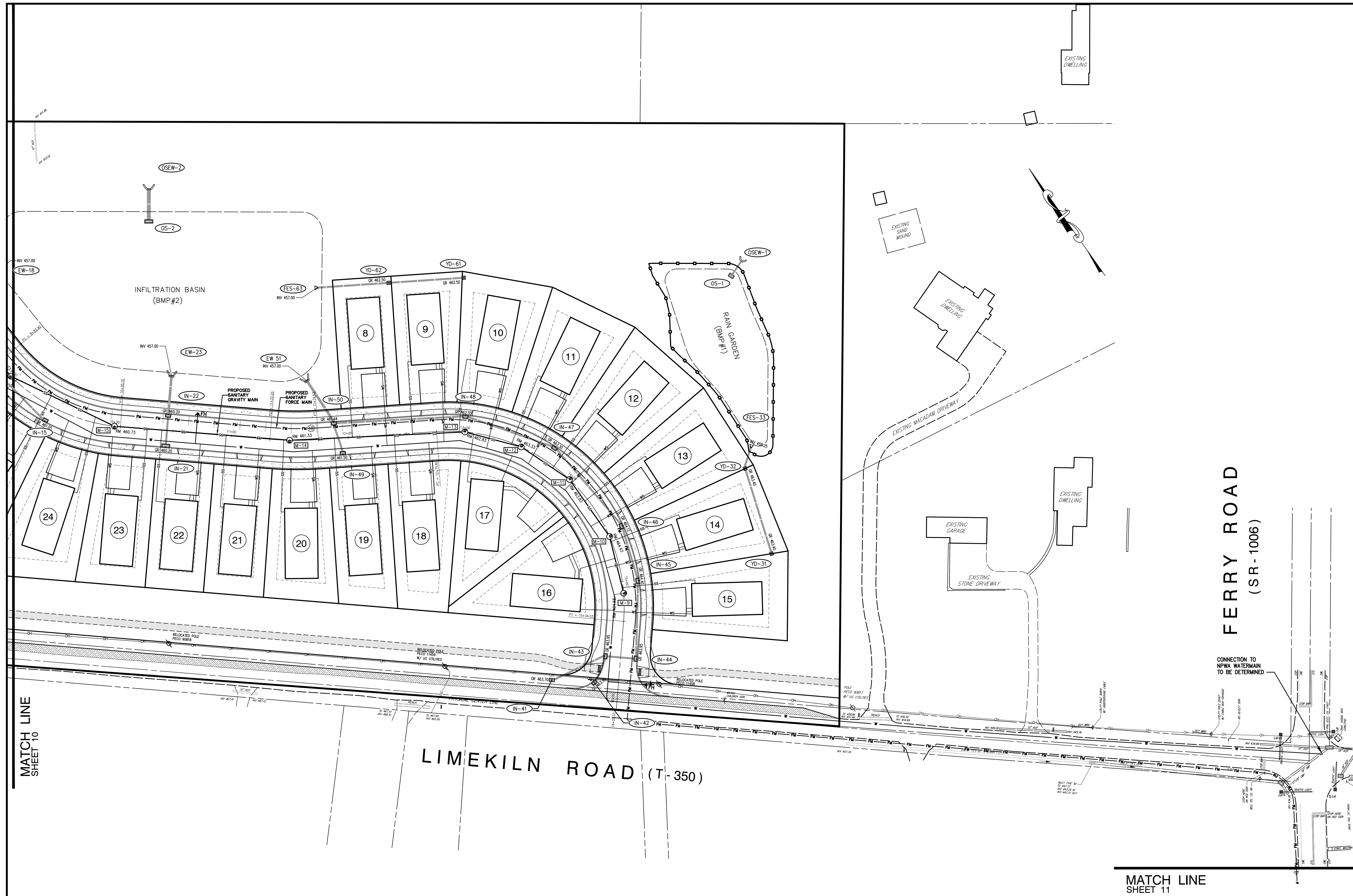
SHEET No. 8 OF 49

LIMEKILN ROAD (T-350)

MATCH LINE
SHEET 7



KEY MAP



LEGEND

- PROPERTY BOUNDARY
- ULTIMATE RIGHT-OF-WAY
- BUILDING SETBACK LINE
- ADJOINING PROPERTY LINE
- EXISTING EDGE OF STONE
- EXISTING EDGE OF MACADAM
- WETLANDS
- EXISTING STORM SEWER
- PROPOSED POLE MOUNTED LIGHT
- PROPOSED TREE PROTECTION FENCE
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE LINE
- PROPOSED SANITARY LATERAL
- PROPOSED SANITARY FORCE MAIN
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER LINE
- PROPOSED WATER SERVICE LINE
- PROPOSED STORM SEWER
- PROPOSED STORM YARD INLET
- PROPOSED STORM INLET
- PROPOSED STORM YARD INLET
- PROPOSED STORM DW ENDWALL
- PROPOSED STORM FLARED END SECTION
- RELOCATED PECO POLE
- RELOCATED OVERHEAD WIRE

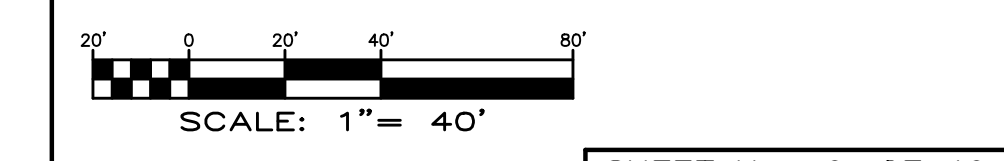
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REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
 UTILITY PLAN (1 OF 3)
 PREPARED FOR
RHG PROPERTIES, LLC.

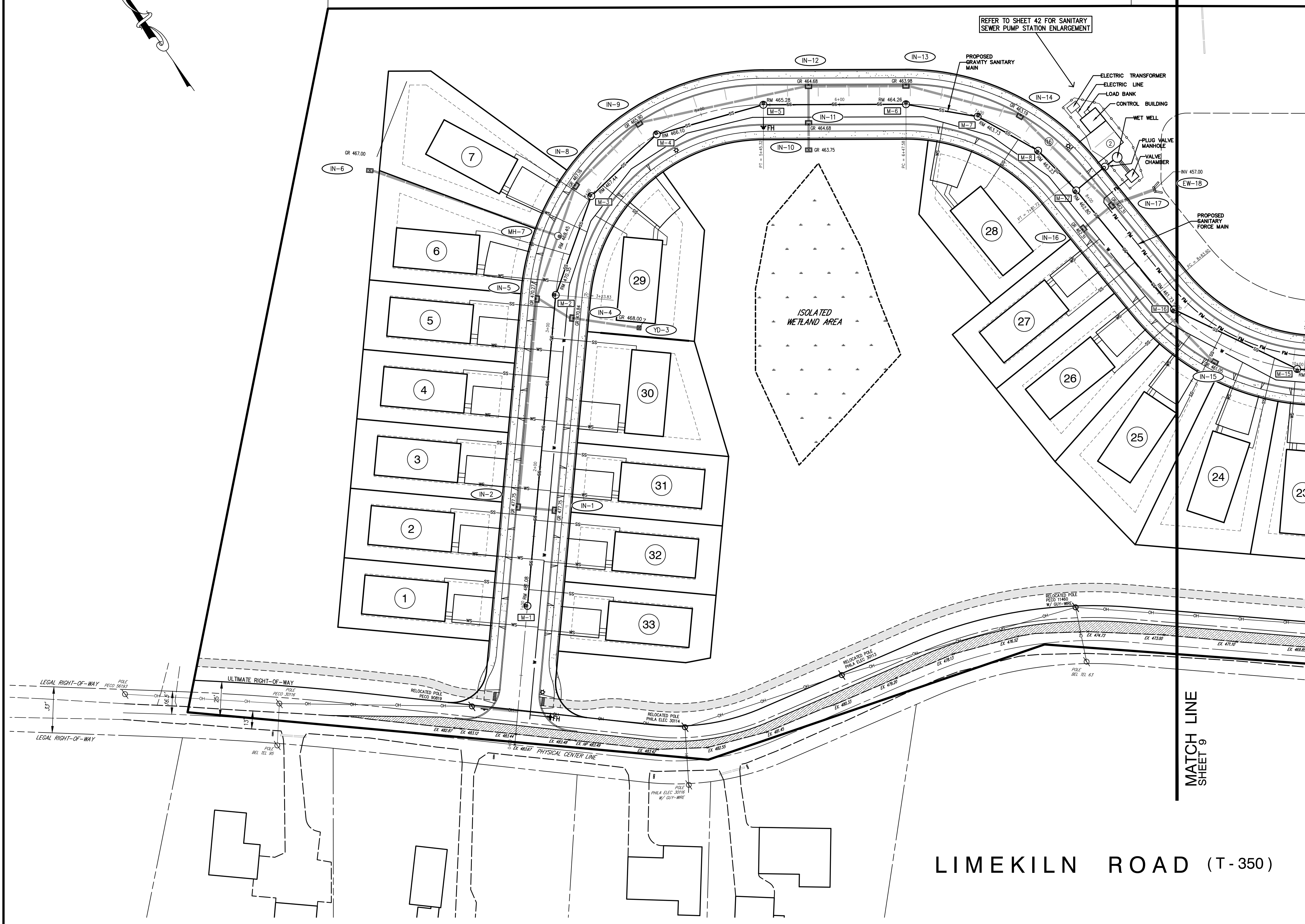
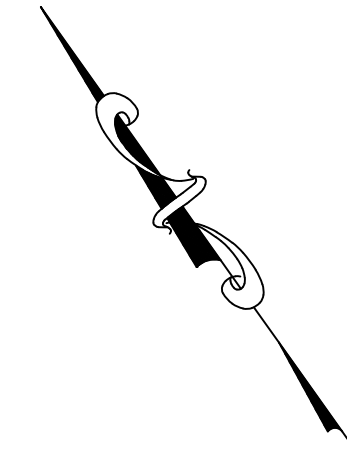
SITUATE IN
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 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND



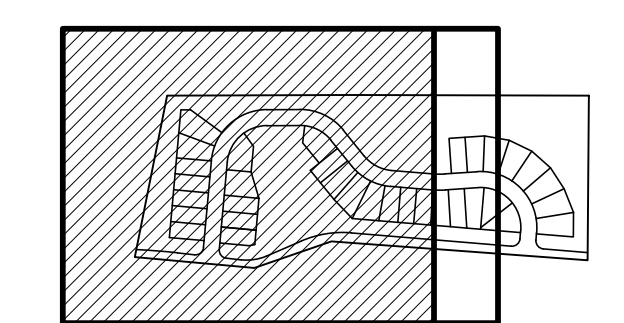
MATCH LINE SHEET 10

MATCH LINE SHEET 11

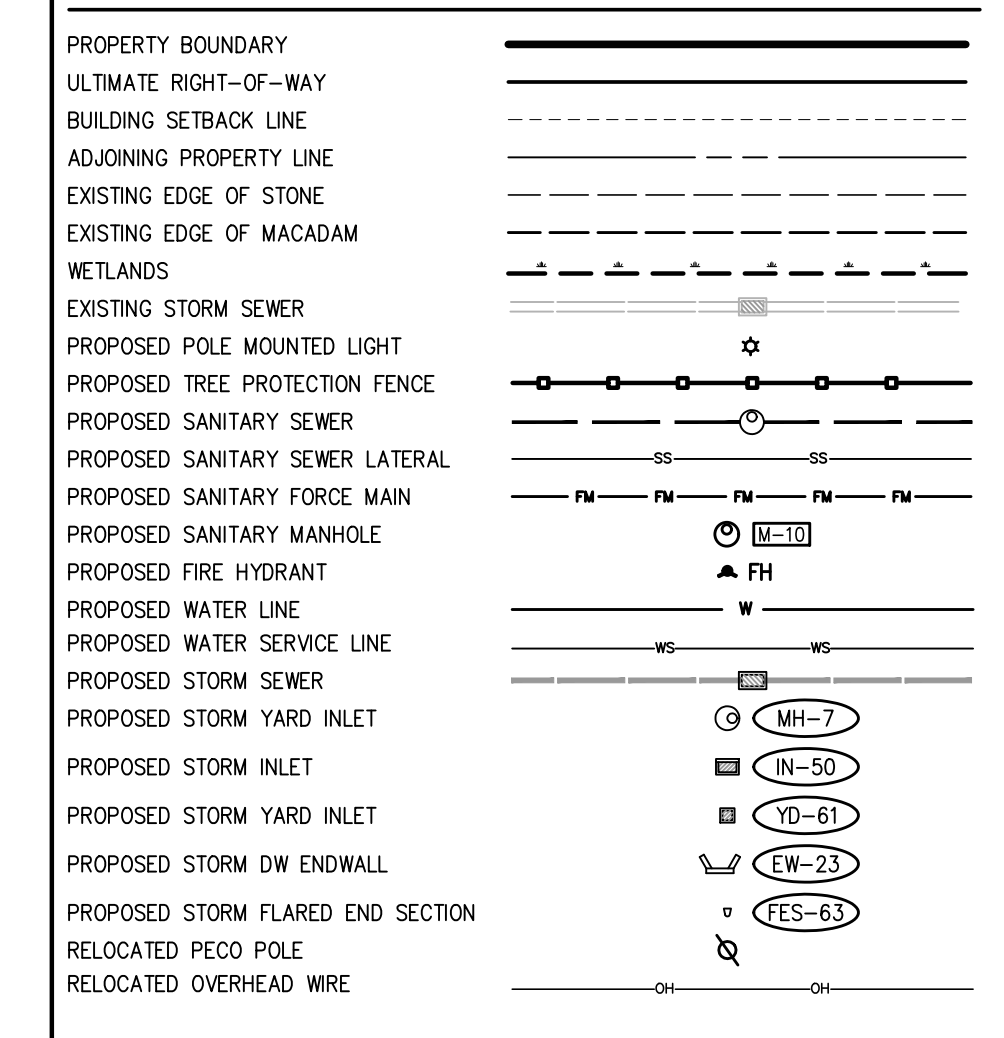


UTILITY NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION ARE TO BE IN ACCORDANCE WITH TOWNSHIP, NORTH PENN WATER AUTHORITY, BUCKS COUNTY WATER AND SEWER AUTHORITY STANDARDS, AND CURRENT PENNDOT STANDARDS AND SPECIFICATIONS, WHICHEVER MAY BE GREATER.
2. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF PECO.
3. ALL STORM SEWER INLET STRUCTURES SHALL CONFORM TO PENNDOT FORM 408 LATEST EDITION.
4. ALL CURB INLETS SHALL BE PENNDOT 4' TYPE "C" INLETS WITH BICYCLE SAFE STRUCTURAL STEEL GRATES UNLESS SPECIFIED ON THE PLANS. ALL LAWN AREA/ROADSIDE SWALE AREA INLETS SHALL BE PENNDOT 4' TYPE "M". TYPE "M" INLETS WITHIN ROADWAYS SHALL HAVE BICYCLE SAFE STRUCTURAL STEEL GRATES.
5. A MINIMUM OF 24-INCHES OF COVER MUST BE MAINTAINED OVER ALL STORM SEWER PIPING WITHIN ROADWAY AREAS. THE TOP OF GRATE ELEVATION FOR ALL STORM SEWER INLETS IS THE CENTER OF THE INLET AT THE FACE OF CURB. THE CONTRACTOR IS RESPONSIBLE FOR PROJECTING THE ROADWAY GRADE ACROSS THE LENGTH OF THE INLET.
6. ALL STORM SEWER PIPING SHALL BE HIGH-DENSITY CORRUGATED POLYETHYLENE (HDPE) TYPE-S (SMOOTH INTERIOR), UNLESS OTHERWISE INDICATED, AND CONFORM TO PENNDOT SPECIFICATIONS (PUB. 408 - SECTION 601) AND STANDARD DETAILS. ALL STORMWATER BASIN OUTFALL PIPING SHALL BE RCP CLASS 3 WITH WATERTIGHT "O" GASKET JOINTS.
7. ALL CONCRETE ENDWALL SHALL CONFORM TO PENNDOT FORM 408 LATEST EDITION.
8. ALL ROOF DRAINS SHALL BE SDR 35 PVC PIPE (SIZE AS SHOWN) OR APPROVED EQUAL.
9. CONSTRUCTION OF SANITARY SEWER FACILITIES SHALL COMPLY WITH THE "STANDARD WATER AND SEWER SPECIFICATIONS," DATED JANUARY 2020, AS PREPARED FOR BUCKS COUNTY WATER AND SEWER AUTHORITY.
10. ALL GRAVITY SANITARY SEWER MAIN SHALL BE 8 INCH SDR 26 PVC.
11. ALL GRAVITY SANITARY SEWER LATERALS TO RIGHT-OF-WAY SHALL BE 6 INCH SDR 35 PVC PIPE. GRAVITY SANITARY SEWER LATERALS SHALL BE LAID ON A SLOPE OF NOT LESS THAN 1/4" INCH PER FOOT. GRAVITY SANITARY SEWER SERVICE WILL BE PROVIDED TO THE FIRST FLOOR ELEVATION OF EACH DWELLING. METALLIC DETECTION TAPE SHALL BE PROVIDED 12 INCHES ABOVE EACH SEWER LATERAL FROM THE MAIN TO THE BUILDING. CLEANOUT. SHOP DRAWINGS OF ALL SEWER MATERIALS TO BE INSTALLED UNDER THE WORK SHALL BE SUBMITTED TO BUCKS COUNTY WATER AND SEWER AUTHORITY FOR REVIEW AND APPROVAL. THE EXACT LOCATION AND DEPTH OF EACH SEWER LATERAL SHALL BE SUBMITTED TO BUCKS COUNTY WATER AND SEWER AUTHORITY DURING THE FINAL INSPECTION OR THE LATERAL WILL NOT BE AUTHORIZED FOR USE.
12. ALL SANITARY FORCE MAIN SHALL BE CEMENT LINED DUCTILE IRON (DIP) MINIMUM CLASS 50 THICKNESS.
13. THE PROPERTY OWNER SHALL PAY TO THE TOWNSHIP AND TO THE AUTHORITY WHICH TREATS THE SEWAGE THE CURRENT FEES FOR THE TREATMENT AND COLLECTION OF SEWAGE WHEN SUCH FACILITIES ARE MADE AVAILABLE TO THE APPLICANT'S SITE.
14. ALL WATER MAIN MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH PENNSYLVANIA NORTH PENN WATER AUTHORITY STANDARDS AND SPECIFICATIONS. ALL WATER MAINS SHALL BE PRESSURE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH POLY WRAP. ALL SERVICE LATERALS SHALL BE 3/4" COPPER AND SHALL INCLUDE A VALVE, CURB BOX, AND 18-INCH DIAMETER RESIDENTIAL METER PIT.
15. A MINIMUM OF 4- FEET OF COVER MUST BE MAINTAINED OVER ALL SANITARY SEWER LINES/MAINS AND WATER LINES/MAINS.
16. A MINIMUM VERTICAL SEPARATION OF 18 INCHES SHALL BE PROVIDED AT ALL UTILITY CROSSINGS. A HORIZONTAL SEPARATION OF 10 FEET AND/OR A VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND ANY OTHER UTILITY PIPELINES. WHERE PIPELINES MUST CROSS UNDER A SEWER, THE INSTALLATION MUST ALSO PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER TO PREVENT DEFLECTION AND BREAKING OF THE SEWER, WHERE PROPER CLEARANCES CAN NOT BE PROVIDED, THE SEWER SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CONFLICT. NO WATERLINE, MAIN OR SERVICES SHALL CROSS UNDER A SANITARY SEWER LINE (MAIN, LATERALS, FORCE MAIN ETC.) EXCEPT WHERE INDICATED ON PLANS.
17. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN ACCORDANCE WITH REFERENCED TOWNSHIP, COUNTY AND/OR DOT DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.
18. ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
19. ALL GAS VALVES, WATER VALVES, WATER METERS AND MANHOLES (STORM, SANITARY, PHONE, ELECTRIC, AND GAS) WITHIN THE PROJECT LIMIT WILL BE SET TO THE PROPOSED FINISHED GRADE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ADJUST OR RELOCATE THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS TO MATCH THE GRADING.
20. A WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE. ALL TEMPORARY WATER SUPPLY MEANS SHALL BE APPROVED BY THE FIRE MARSHAL'S OFFICE.
21. SEE PROFILE PLAN FOR INFORMATION RELATED TO STORM SEWERS, STORM SEWER STRUCTURES, SANITARY SEWERS, SANITARY SEWER STRUCTURES, FORCE MAIN AND WATER MAIN.
22. SANITARY SEWER PUMP STATION AND FORCE MAIN DESIGN DETAIL SHALL BE PROVIDED IN FUTURE.
23. REFER TO SHEET 42 FOR SANITARY SEWER PUMP STATION ENLARGEMENT.



LEGEND



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

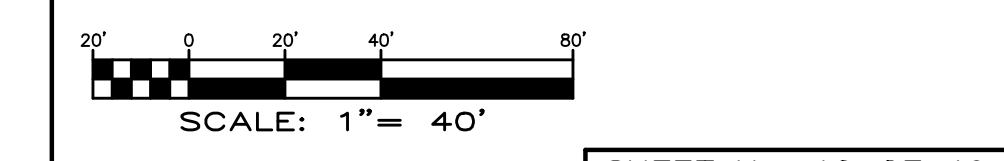
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
UTILITY PLAN (2 OF 3)

PREPARED FOR
RHG PROPERTIES, LLC.

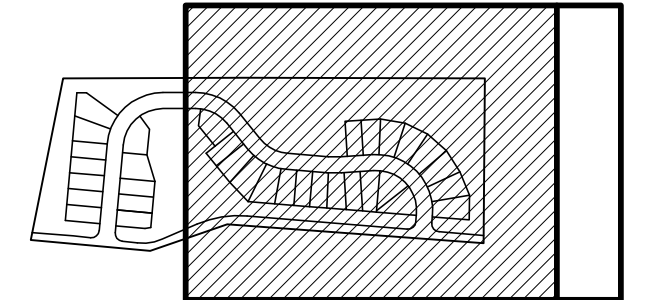
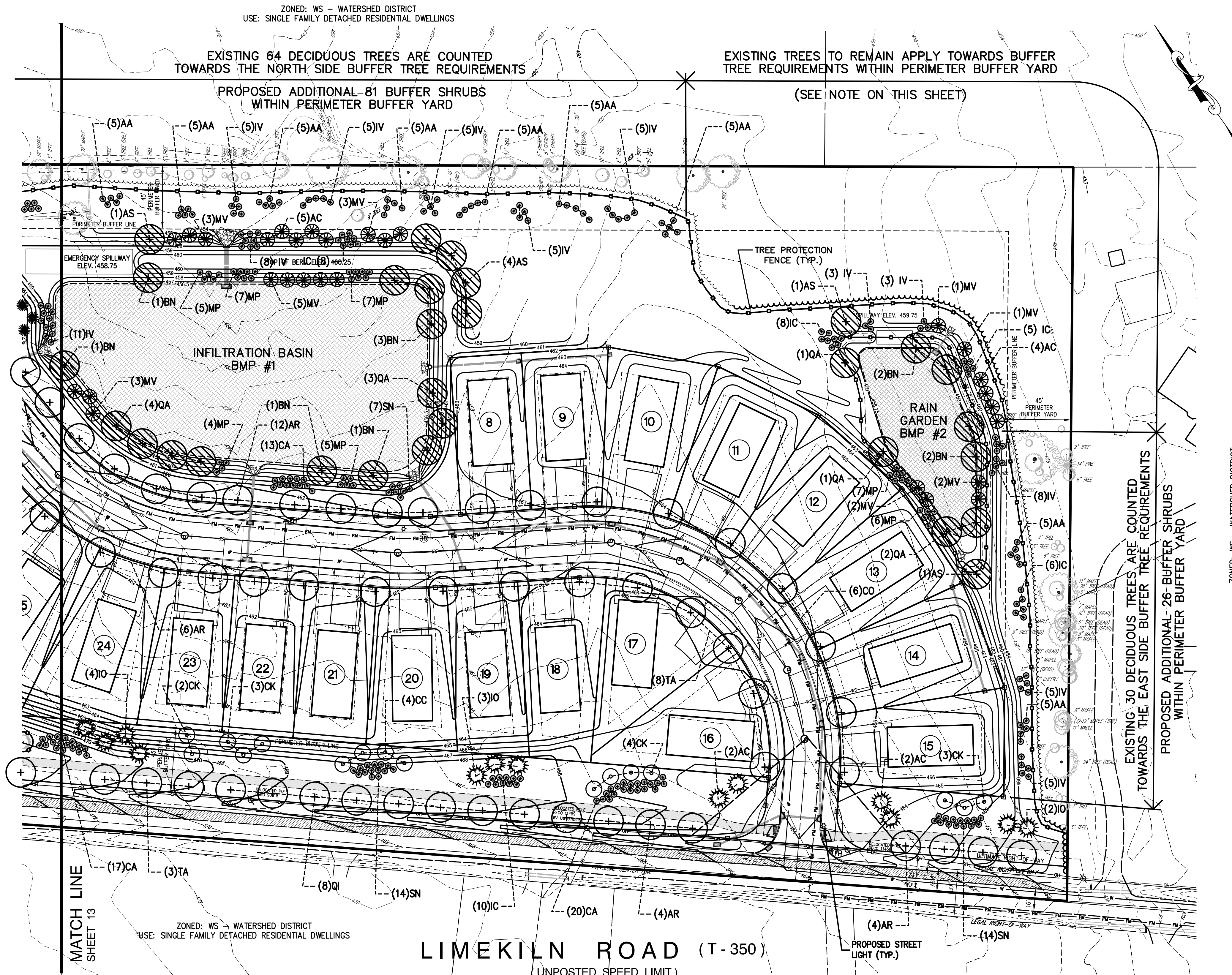
SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND



LIMEKILN ROAD (T-350)

MATCH LINE
SHEET 9



KEY MAP

- GENERAL NOTES:**
- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408 OR NEW BRITAIN TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
 - REFER TO SHEET 14 FOR LANDSCAPE DETAILS.
 - THE STREET TREES SHALL BE PLANTED 3 TO 5 FEET BEHIND ULTIMATE RIGHT OF WAY.

- LANDSCAPE KEY**
- PROPOSED DECIDUOUS/SHADE TREES: (MIN. CALIPER SIZE 3-1/2 INCHES)
- (114) STREET
 - (29) STORMWATER BMP
- PROPOSED ORNAMENTAL TREE: (MIN. CALIPER 1-1/2 - 2 INCHES)
(MIN. HEIGHT 8 FEET)
- (31) BUFFER YARD AREA
 - (29) STORMWATER BMP
- PROPOSED EVERGREEN TREES: (MIN. HEIGHT 6 FEET)
- (16) SANITARY PUMP STATION
 - (18) BUFFER YARD AREA
- PROPOSED DECIDUOUS/EVERGREEN SHRUBS: (MIN. HEIGHT 30 INCHES)
- (335) SHRUBS
- EXISTING TREES:
- STORMWATER BMP GRASS MIX

THE NORTH AND EAST SIDE PROPERTY BOUNDARY IS NEXT TO WS - WATERSHED DISTRICT. NO ADDITIONAL BUFFER PLANTINGS IS REQUIRED IN AREAS WHERE THERE IS A 45 FEET PERIMETER BUFFER YARD OF EXISTING TREES.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

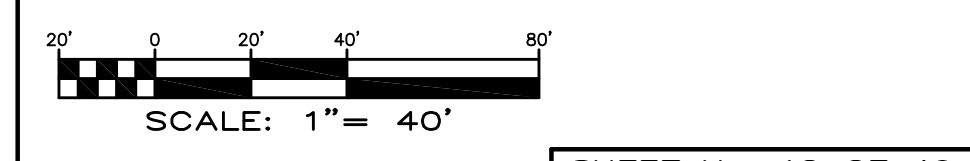
REVISIONS	
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**GALENA RESERVE MOBILE HOME PARK
LANDSCAPE PLAN (1 OF 2)**

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND

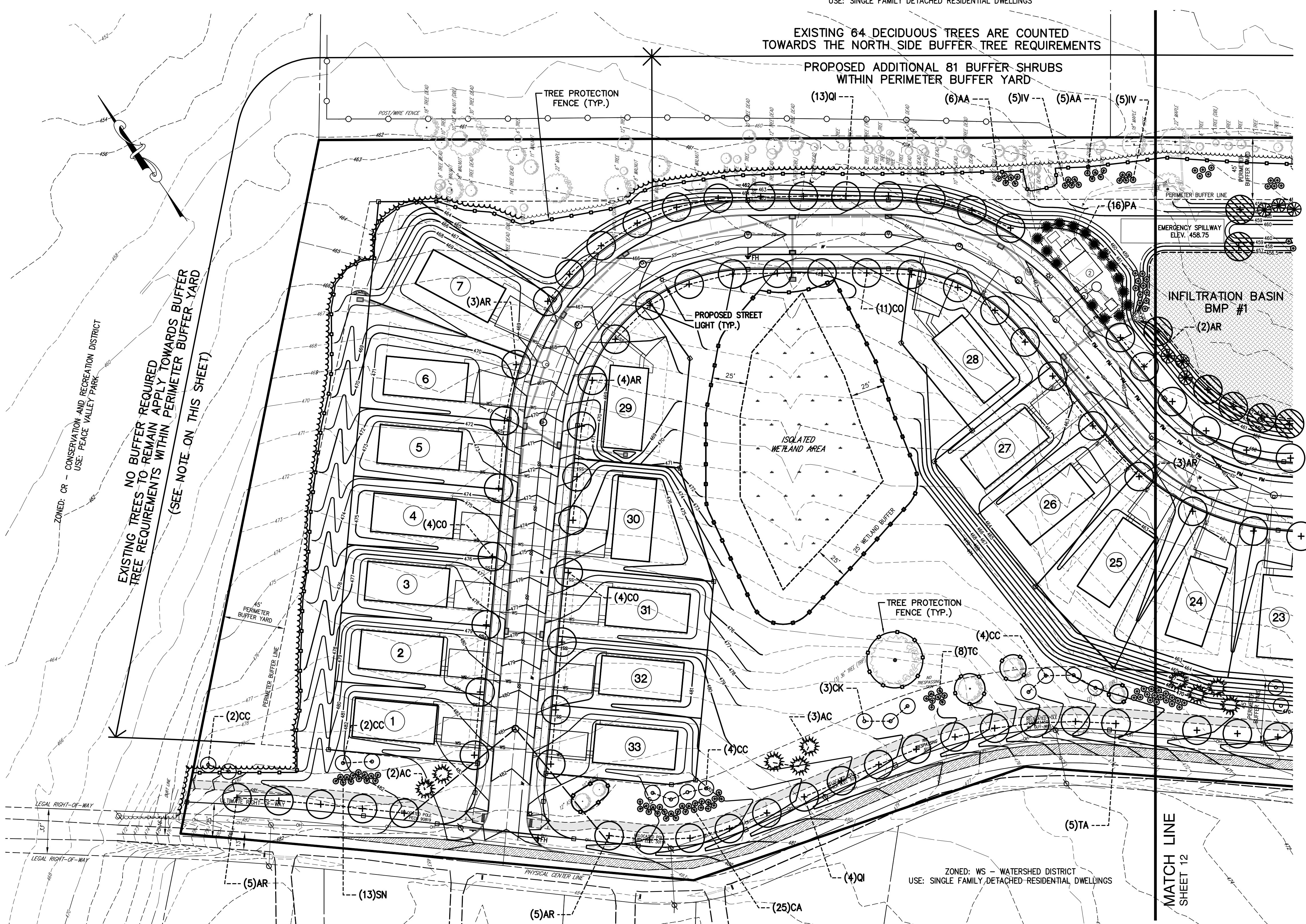


- LEGEND**
- PROPERTY BOUNDARY
 - ULTIMATE RIGHT-OF-WAY
 - BUILDING SETBACK LINE
 - ADJOINING PROPERTY LINE
 - EXISTING CONTOUR
 - EXISTING EDGE OF STONE
 - EXISTING EDGE OF MACADAM
 - WETLANDS
 - EXISTING EDGE OF WOODS
 - EXISTING TREES
 - EXISTING STORM SEWER
 - BUFFER YARD
 - PROPOSED CONTOUR
 - PROPOSED STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED SANITARY SEWER LATERAL
 - PROPOSED SANITARY FORCE MAIN
 - PROPOSED WATER LINE
 - PROPOSED WATER SERVICE LINE
 - PROPOSED POLE MOUNTED LIGHT
 - PROPOSED TREE PROTECTION FENCE
 - PROPOSED EDGE OF WOODS

ZONED: WS - WATERSHED DISTRICT
 USE: SINGLE FAMILY DETACHED RESIDENTIAL DWELLINGS

EXISTING 84 DECIDUOUS TREES ARE COUNTED
 TOWARDS THE NORTH SIDE BUFFER TREE REQUIREMENTS

PROPOSED ADDITIONAL 81 BUFFER SHRUBS
 WITHIN PERIMETER BUFFER YARD



NO BUFFER REQUIRED
 EXISTING TREES TO REMAIN APPLY TOWARDS BUFFER
 TREE REQUIREMENTS WITHIN PERIMETER BUFFER YARD
 (SEE NOTE ON THIS SHEET)

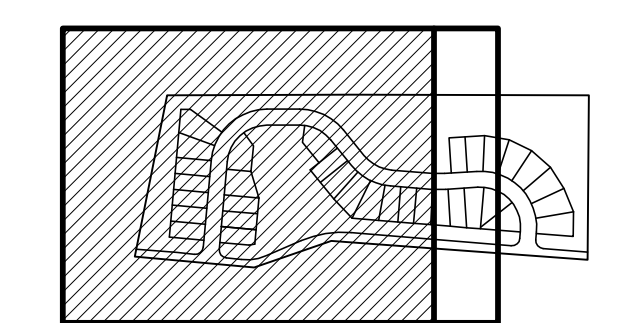
ZONED: CR - CONSERVATION AND RECREATION DISTRICT
 USE: PEACE VALLEY PARK

ZONED: WS - WATERSHED DISTRICT
 USE: SINGLE FAMILY DETACHED RESIDENTIAL DWELLINGS

LIMEKILN ROAD (T-350)
 (UNPOSTED SPEED LIMIT)

LEGEND

PROPERTY BOUNDARY	---
ULTIMATE RIGHT-OF-WAY	---
BUILDING SETBACK LINE	---
ADJOINING PROPERTY LINE	---
EXISTING CONTOUR	---
EXISTING EDGE OF STONE	---
EXISTING EDGE OF MACADAM	---
WETLANDS	---
EXISTING EDGE OF WOODS	---
EXISTING TREES	☀
EXISTING STORM SEWER	---
BUFFER YARD	---
PROPOSED CONTOUR	---
PROPOSED STORM SEWER	---
PROPOSED SANITARY SEWER	---
PROPOSED SANITARY SEWER LATERAL	---
PROPOSED SANITARY FORCE MAIN	---
PROPOSED WATER LINE	---
PROPOSED WATER SERVICE LINE	---
PROPOSED POLE MOUNTED LIGHT	---
PROPOSED TREE PROTECTION FENCE	---
PROPOSED EDGE OF WOODS	---



- GENERAL NOTES:**
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- (114) STREET
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- PROPOSED ORNAMENTAL TREE: (MIN. CALIPER 1-1/2 - 2 INCHES)
 (MIN. HEIGHT 8 FEET)
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 - (29) STORMWATER BMP
- PROPOSED EVERGREEN TREES: (MIN. HEIGHT 6 FEET)
- (16) SANITARY PUMP STATION
 - (18) BUFFER YARD AREA
- PROPOSED DECIDUOUS/EVERGREEN SHRUBS: (MIN. HEIGHT 30 INCHES)
- (335) SHRUBS
- EXISTING TREES:
- ☀
 - ☀
 - ☀
- STORMWATER BMP GRASS MIX: [hatched pattern]

THE WEST SIDE PROPERTY BOUNDARY IS NEXT TO PEACE VALLEY PARK IN CR - CONSERVATION AND RECREATION DISTRICT WITH 45 FEET PERIMETER BUFFER YARD OF EXISTING TREES. (NO ADDITIONAL BUFFER PLANTING REQUIRED).

THE NORTH AND EAST SIDE PROPERTY BOUNDARY IS NEXT TO WS - WATERSHED DISTRICT. NO ADDITIONAL BUFFER PLANTING IS REQUIRED IN AREAS WHERE THERE IS A 45 FEET PERIMETER BUFFER YARD OF EXISTING TREES.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

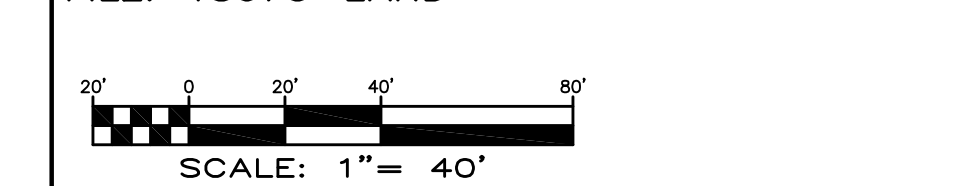
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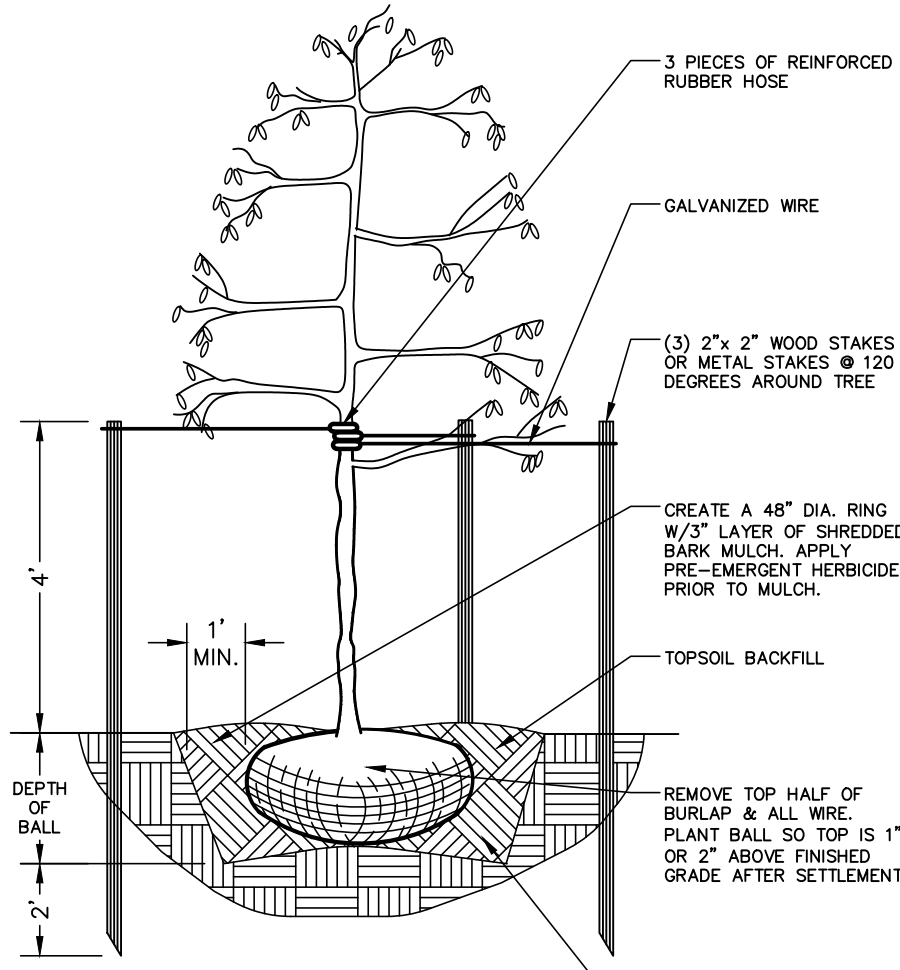
**GALENA RESERVE MOBILE HOME PARK
 LANDSCAPE PLAN (2 OF 2)**

PREPARED FOR
RHG PROPERTIES, LLC.

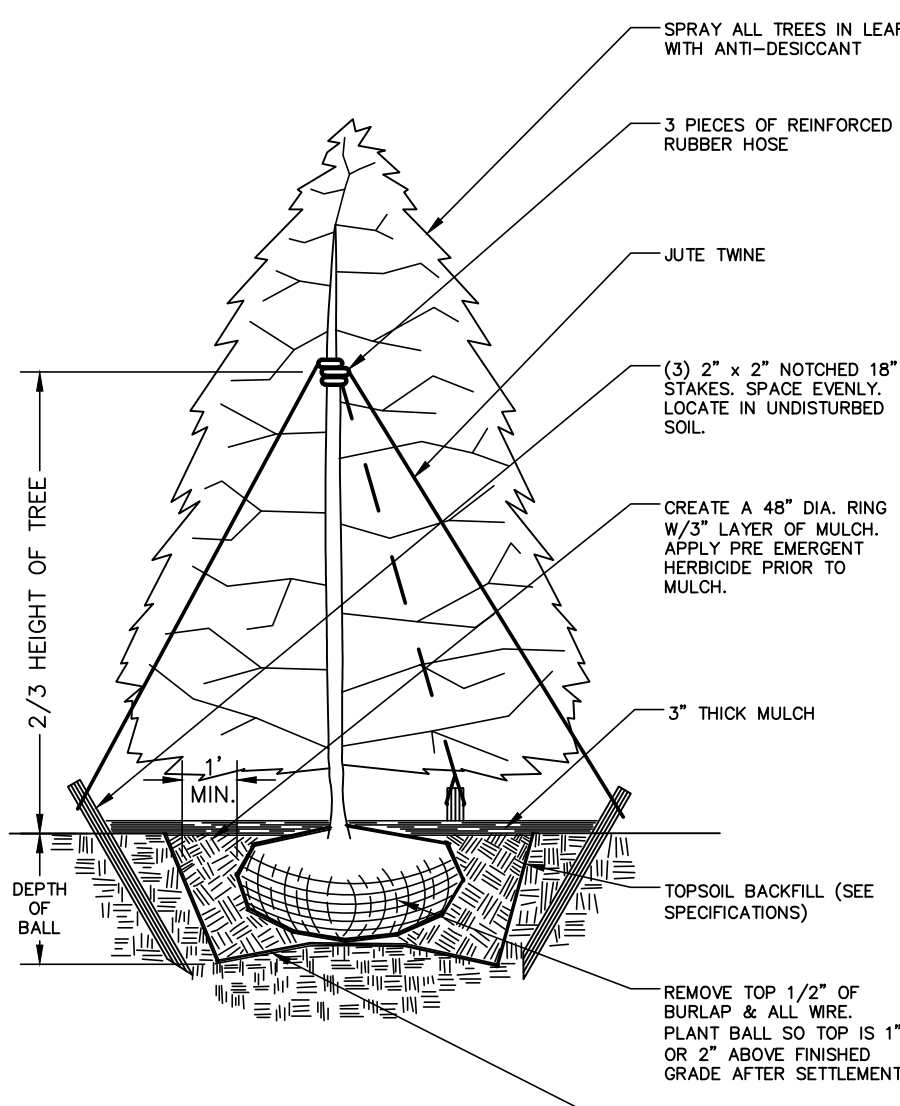
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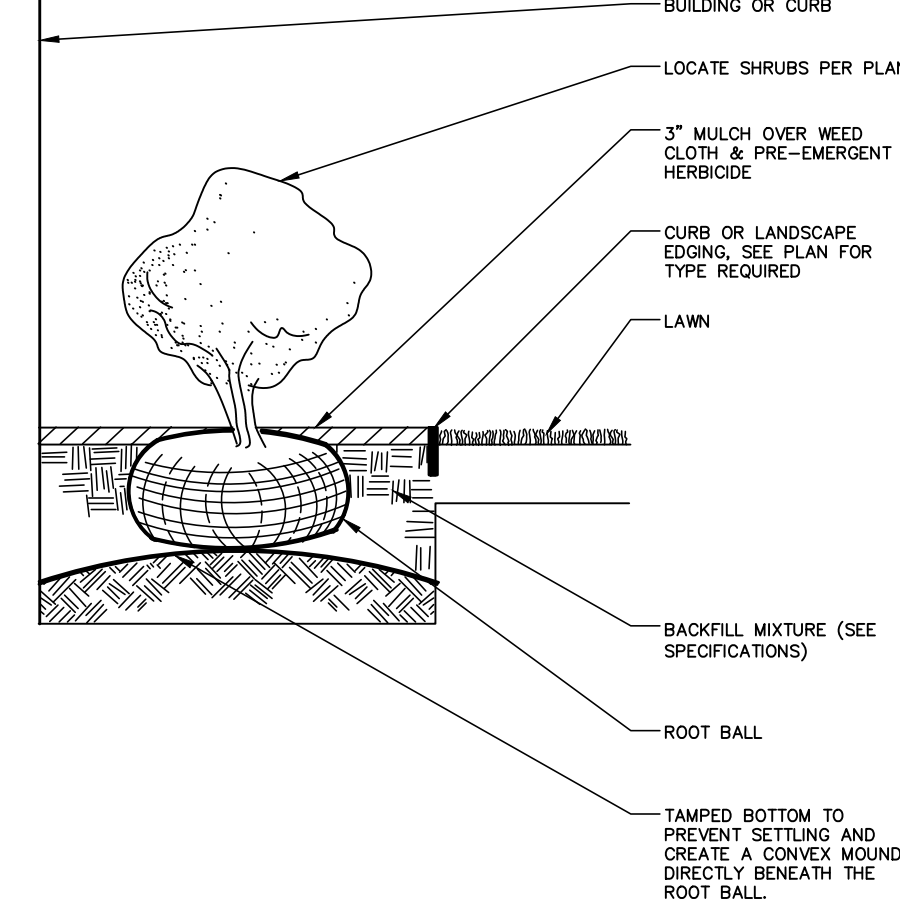




DECIDUOUS TREE PLANTING & STAKING DETAIL NTS
 NOTE:
 1. FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.



EVERGREEN TREE PLANTING & STAKING DETAIL NTS
 NOTE:
 1. FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.



SHRUB PLANTING DETAIL NTS
 NOTE:
 1. FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.

LANDSCAPING CHART						
SYMBOL	ABBREV.	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE AT INSTALLATION	ROOT CONDITION
+ (114) STREET	TA	TELIA AMERICANA	AMERICAN LINDEN	16	MIN. 3 1/2" CALIPER	B&B
	CO	CELTIS OCCIDENTALIS	HACKBERRY	25	MIN. 3 1/2" CALIPER	B&B
	AR	ACER RUBRUM	RED MAPLE	48	MIN. 3 1/2" CALIPER	B&B
	QI	QUERCUS IMBRICATA	SINGLE OAK	25	MIN. 3 1/2" CALIPER	B&B
⊗ (29) STORMWATER BMP	AS	ACER SACCHARUM	SUGAR MAPLE	7	MIN. 3 1/2" CALIPER	B&B
	QA	QUERCUS ALBA	WHITE OAK	11	MIN. 3 1/2" CALIPER	B&B
	BN	BETULA NIGRA	RIVER BIRCH	11	MIN. 3 1/2" CALIPER	B&B
	CK	CORNUS KOUSA	JAPANESE DOGWOOD	15	MIN. 1 1/2" - 2" CALIPER & MIN. HEIGHT 8 FEET	B&B
○ (31) BUFFER YARD AREA	CC	CERCIS CANADENSIS	REDBUD	16	MIN. 1 1/2" - 2" CALIPER & MIN. HEIGHT 8 FEET	B&B
	AC	AMELANCHER CANADENSIS	SERVICEBERRY	9	MIN. 1 1/2" - 2" CALIPER & MIN. HEIGHT 8 FEET	B&B
⊗ (29) STORMWATER BMP	MV	MAGNOLIA VIRGINA	SWEETBAY MAGNOLIA	20	MIN. 1 1/2" - 2" CALIPER & MIN. HEIGHT 8 FEET	B&B
	PA	PICEA ABIES	NORWAY SPRUCE	16	MIN. HEIGHT 6 FEET	B&B
☼ (16) SANITARY PUMP STATION	AC	ABIES CONCOLOR	WHITE FIR	9	MIN. HEIGHT 6 FEET	B&B
	IO	ILEX OPACA	AMERICAN HOLLY	9	MIN. HEIGHT 6 FEET	B&B
⊗ (335) SHRUBS	AA	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	61	MIN. HEIGHT 30 INCHES	CONTAINER
	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	75	MIN. HEIGHT 30 INCHES	CONTAINER
	IC	ILEX ORNATA	JAPANESE HOLLY	37	MIN. HEIGHT 30 INCHES	CONTAINER
	IV	ILEX VERTICILLATA	WINTERBERRY	65	MIN. HEIGHT 30 INCHES	CONTAINER
	MP	MYRTICA PENNSYLVANICA	BAJBERRY	41	MIN. HEIGHT 30 INCHES	CONTAINER
	SN	SPIREA NIPPONICA	SNOW MOUND SPIREA	48	MIN. HEIGHT 30 INCHES	CONTAINER
	TC	TAXUS CANADENSIS	AMERICAN YEW	8	MIN. HEIGHT 30 INCHES	CONTAINER

LANDSCAPING COMPLIANCE CHART

SECTION	REQUIREMENT	LANDSCAPE QUANTITIES (REQUIRED)	LANDSCAPE QUANTITIES (PROVIDED)	COMPLIANCE
ZONING § 27-2081 & SALDO § 22-713.5.B.(6)	A BERM VARYING IN HEIGHT FROM THREE TO FIVE FEET, WITH ONE ORNAMENTAL OR EVERGREEN TREE FOR EVERY 20 FEET, PLUS ONE DECIDUOUS OR EVERGREEN SHRUB FOR EVERY 10 FEET, PLANTED IN AN INFORMAL ARRANGEMENT ALONG THE PERIMETER OF THE PROPERTY TO BE SUBDIVIDED. THE MAXIMUM SIDE SLOPES OF THE BERM SHALL BE FOUR HORIZONTAL TO ONE VERTICAL.	805 LF OF NORTH SIDE PROPERTY BUFFER LENGTH, 258 LF OF EAST SIDE PROPERTY BUFFER LENGTH AND 1128 LF OF SOUTH SIDE PROPERTY BUFFER LENGTH BETWEEN MHP AND W5 ZONING DISTRICT. ORNAMENTAL / EVERGREEN TREE: 805/20 = 41 TREES (NORTH SIDE) 258/20 = 13 TREES (EAST SIDE) 1128/20 = 57 TREES (SOUTH SIDE) DECIDUOUS/EVERGREEN SHRUB: 805/10 = 81 SHRUBS (NORTH SIDE) 258/10 = 26 SHRUBS (EAST SIDE) 1128/10 = 113 SHRUBS (SOUTH SIDE)	EXISTING TREES ALONG NORTH SIDE - 78 TREES OUT OF WHICH 14 TREES ARE DEAD, HENCE, 64 TREES ARE CREDITED TOWARDS THE BUFFER PLANTING REQUIREMENTS. 81 SHRUBS ARE ADDED ALONG NORTH SIDE BUFFER AREA. EXISTING TREES ALONG EAST SIDE - 38 TREES OUT OF WHICH 3 TREES ARE DEAD, HENCE, 35 TREES ARE CREDITED TOWARDS THE BUFFER PLANTING REQUIREMENTS. 26 SHRUBS ARE ADDED ALONG EAST SIDE BUFFER AREA. EXISTING TREES ALONG SOUTH SIDE - 8 TREES ARE CREDITED TOWARDS THE BUFFER PLANTING REQUIREMENTS. 49 TREES AND 113 SHRUBS ARE ADDED ALONG SOUTH SIDE BUFFER AREA.	COMPLIES
SALDO § 22-713.5.B.(5)	A MINIMUM SIX-FOOT WOODEN SHADOW-BOX FENCE, OR APPROVED EQUAL, ON ALL SIDES, WITH A STAGGERED ROW OF EVERGREEN TREES PLANTED EVERY 10 FEET.	160 LF OF SEWAGE PUMP STATION PERIMETER EVERGREEN TREE: 160/10 = 16 TREES	16 EVERGREEN TREES ADDED ALONG SEWAGE PUMP STATION PERIMETER.	COMPLIES
SALDO § 22-713.5.B.(3)	ONE DECIDUOUS OR EVERGREEN TREE PLANTED EVERY 20 FEET, PLUS ONE DECIDUOUS OR EVERGREEN SHRUB EVERY 10 FEET ALONG THE BASIN PERIMETER, PLANTED IN AN INFORMAL ARRANGEMENT.	744 LF OF INFILTRATION BASIN PERIMETER 392 LF OF RAIN GARDEN BASIN PERIMETER DECIDUOUS / EVERGREEN TREE: 744/20 = 38 TREES (INFILTRATION BASIN) 392/20 = 20 TREES (RAIN GARDEN) DECIDUOUS/EVERGREEN SHRUB: 744/10 = 75 SHRUBS (INFILTRATION BASIN) 392/10 = 40 SHRUBS (RAIN GARDEN)	38 TREES AND 75 SHRUBS ADDED ALONG INFILTRATION BASIN PERIMETER. 20 TREES AND 40 SHRUBS ADDED ALONG RAIN GARDEN PERIMETER.	COMPLIES
SALDO § 22-713.4	EVERY 30 FEET ALONG ALL PROPOSED STREETS AND EXISTING STREETS WHEN THEY ABUT OR LIE WITHIN THE PROPOSED SUBDIVISION AND/OR LAND DEVELOPMENT.	LIMEKILN ROAD = 1429 LF LONG - 2 SIGHT TRIANGLES (150 LF EACH) = 1129 LF 1129/30 = 38 TREES INTERNAL ROAD = 1559 LF LONG (BOTH SIDES) - 2 SIGHT TRIANGLES STRAIGHT LINE (75 LF EACH) - 680 LF (34 DRIVEWAYS - 20 LF EACH) = 2288 LF 2288/30 = 76 TREES	38 TREES ARE ADDED ALONG LIMEKILN ROAD 76 TREES ARE ADDED ALONG BOTH SIDES OF INTERNAL ROAD.	COMPLIES

LANDSCAPE SPECIFICATIONS

- SCOPE OF WORK:
THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SOODING, PLANTING AND MULCHING INCLUDING ALL LABOR MATERIALS, TOPSOIL THAT REMAINS UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
- MATERIALS:
A. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
B. TOPSOIL - NATURAL, FRACTION LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 5.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
C. LAWN - LAWN AREAS SHALL BE SEED OR SOODED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SOIL EROSION AND SEDIMENT CONTROL NOTES. FOR SOIL BED PREPARATIONS, REFER TO ITEM 8 BELOW.
I. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
II. SOIL SHALL BE STRONGLY ROOTED, WEED AND DISEASE/FEST FREE WITH A UNIFORM THICKNESS. SOIL INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOIL IN PLACE.
D. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF HARDWOOD BARK MULCH, AT A MINIMUM, UNLESS A GREATER AMOUNT IS OTHERWISE STATED ON THE LANDSCAPE PLAN.
E. FERTILIZER
I. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
II. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.
F. PLANT MATERIAL
I. ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY AMERICAN HORT (FORMERLY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION).
II. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
III. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
IV. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OR LIMBS OVER 1/4", WHICH HAVE NOT BEEN COMPLETELY CALLED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
V. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH, WELL DEVELOPED BRANCHES, DENSELY FOLIATED, WOODRICH ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
VI. CALIPER MEASUREMENTS OF NURSERY-GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
VII. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
VIII. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
- GENERAL WORK PROCEDURES
A. CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
B. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
C. SITE PREPARATIONS
A. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DIGG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
B. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. ANY ENTIRE LIMB OR THE DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
C. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY TAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
D. TREE PROTECTION
A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE, OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
B. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY "VIS-FENCE" OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8") ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
C. WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
E. SOIL MODIFICATIONS
A. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
B. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE PROJECT. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
C. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVERSED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
I. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6"-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
II. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
III. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
F. FINISHED GRADING
A. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
B. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1"+).
C. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE, WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
D. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
G. TOPSOILING
A. CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AND LAWN AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
B. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAYBE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
C. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
D. ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE FILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY [SEE SPECIFICATION 6.A.]):
I. 20 POUNDS "GRO-POWER" OR APPROVED EQUAL SOIL CONDITIONER/FERTILIZER
II. 20 POUNDS "NITRO-FORM" (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER
E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR WET CONDITIONS.
- PLANTING
A. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNPLANTED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
B. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
C. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING. UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
D. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
E. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
F. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS:
THE FOLLOWING PLANTING SEASONS:
I. PLANTS: MARCH 15 TO DECEMBER 15
II. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
PLANTING REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
G. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY. THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:
ACER RUBRUM PLATANUS X ACERIFOLIA
BETULA VARIETIES POPULUS VARIETIES
CORNUS VARIETIES PRUNUS VARIETIES
CRATAEGUS VARIETIES PYRUS VARIETIES
HOLELERTERA QUERCUS VARIETIES
LIQUIDAMBAR STYRACIUM TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA ZELKOVA VARIETIES
H. PLANTING PITS SHALL BE DUG WITH LEVEL OR CONVEY BOTTOMS, WITH THE WIDTH THREE TIMES THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
I. 1 PART PEAT MOSS
II. 1 PART COMPOSTED COW MANURE BY VOLUME
III. 3 PARTS TOPSOIL BY VOLUME
IV. 21 GRAMS "AGRIFORM" PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
A) 2 TABLETS PER 1 GALLON OF PLANTING TABLETS
B) 3 TABLETS PER 5 GALLON PLANTING TABLETS
C) 4 TABLETS PER 15 GALLON PLANTING TABLETS
D) LARGER PLANTS: 2 TABLETS PER 3" CALIPER OF TRUNK
V. FILL PREPARED SOIL AROUND BASE OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
I. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLEECE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.
K. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE. NO FRUNING SHALL BE CONDUCTED WITHIN THE FIRST YEAR OF PLANTING.
L. GROUND COVER AREAS SHALL RECEIVE A 1" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.
M. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.
N. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
O. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
P. TRANSPLANTING (WHEN REQUIRED)
A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT. (SEE SPECIFICATION 2.F. ABOVE)
B. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
C. CUTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
D. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
E. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
F. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
Q. WATERING
A. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
B. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
C. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR WOODRICH, HEALTHY GROWTH.
R. GUARANTEE
A. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF EIGHTEEN (18) MONTH FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
B. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
C. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND UNTIL TURNOVER TO THE OWNER/OPERATOR. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
D. LAWNS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND UNTIL TURNOVER TO THE OWNER/OPERATOR THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
S. CLEANUP
A. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
B. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.

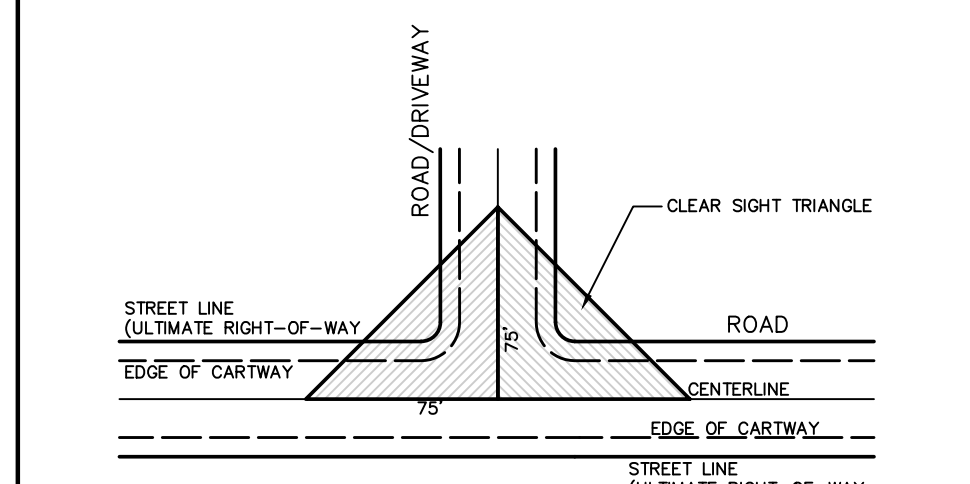
LANDSCAPING NOTES:

- THE LOCATION, DIMENSIONS AND SPACING OF REQUIRED PLANTINGS SHOULD BE ADEQUATE FOR THEIR PROPER GROWTH AND MAINTENANCE, TAKING INTO ACCOUNT THE SIZES OF SUCH PLANTINGS AT MATURITY AND THEIR PRESENT AND FUTURE ENVIRONMENTAL REQUIREMENTS, SUCH AS WIND, SOIL, MOISTURE AND SUNLIGHT. PLANTINGS SHOULD BE SELECTED AND LOCATED WHERE THEY WILL NOT CONTRIBUTE TO CONDITIONS HAZARDOUS TO PUBLIC SAFETY.
- ALL PLANT MATERIAL SHALL MEET THE MINIMUM STANDARDS FOR HEALTH, FORM, AND ROOT CONDITION AS OUTLINED IN THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z60.1 - 1996, AS AMENDED. ALL PLANT MATERIAL SHALL BE HARDY AND WITHIN THE UNITED STATES DEPARTMENT OF AGRICULTURAL (USDA) HARDINESS ZONE 6, APPLICABLE TO BUCKS COUNTY, PENNSYLVANIA.
- ALL SHADE AND EVERGREEN TREES SHALL BE SUPPORTED WITH STAKES AND GUY WRING IN ACCORDANCE WITH THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS. THE BACKFILL FOR EXCAVATED PLANTING AREAS SHALL BE COMPOSED OF NATIVE TOPSOIL AND SHALL BE MULCHED SIX INCHES BEYOND THE DRIFLINE.
- THE LANDSCAPE PLAN SHALL CONTAIN PLAN NOTATION STATING THAT THE APPLICANT IS REQUIRED TO MAINTAIN AND GUARANTEE ALL PLANT MATERIAL UNTIL THE END OF THE EIGHTEEN-MONTH MAINTENANCE PERIOD. ANY PLANT MATERIAL THAT IS DEEMED, IN THE OPINION OF THE TOWNSHIP ENGINEER, NOT TO HAVE SURVIVED OR NOT TO HAVE GROWN IN A MANNER CHARACTERISTIC OF ITS TYPE, SHALL BE REPLACED WITHIN THE EIGHTEEN-MONTH MAINTENANCE PERIOD.
- ALL PLANTING SHALL BE AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT, AND TO THE INDICATED LAYOUT OF THE PLANTING BEDS.
- THE CONTRACTOR SHALL LAY OUT WITH IDENTIFIABLE STAKES THE LOCATION OF ALL PLANTING BEDS AS INDICATED ON DRAWING. THE LAYOUT OF PLANTING SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO ANY EXCAVATION OF PLANT PITS OR PLANT BEDS.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT REPRESENTATIVE IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANTS. THE CONTRACTOR SHALL STATE THE CONDITIONS AND SUBMIT A PROPOSAL FOR CORRECTING THE CONDITIONS, INCLUDING ANY CHANGE IN COST, FOR REVIEW AND ACCEPTANCE BY THE PROJECT REPRESENTATIVE.
- MINOR ADJUSTMENTS TO TREE LOCATIONS MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE OWNER IF ADJUSTMENTS ARE REQUIRED.
- ALL TREES SHALL BE PLANTED NO CLOSER THAN 6 FT FROM WATER LATERAL, SANITARY LATERAL AND STORM SEWER.

STORMWATER BMP GRASS MIX (ERNMX-180-1)

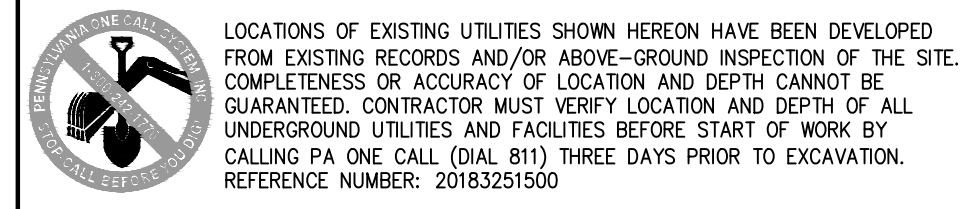
MIX COMPOSITION
 45.0% SCORCHAGRASS SCOPARILUM, 'CAMPER' (LITTLE BLUESTEM, 'CAMPER')
 20.0% ELMONGRASS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)
 8.0% PANICUM VIRGINICUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)
 7.0% AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE (AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE)
 4.5% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)
 1.0% JUNCUS EFFUSUS (SOFT RUSH)
 0.5% CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)

HEIGHT: 0.3 - 5.0 FT
 SEEDING RATE: 15 LB PER ACRE WITH A COVER CROP OF GRASS RYE AT 30 LB PER ACRE



LOCAL STREET CLEAR SIGHT TRIANGLE DETAIL NTS

- SIGHT TRIANGLES NOTES**
- PROPER SIGHT LINES AS APPROVED BY CURRENT PENNDOT REGULATIONS SHALL BE MAINTAINED AT ALL STREET INTERSECTIONS. CLEAR-SIGHT TRIANGLES SHALL BE MAINTAINED ALONG ALL PROPOSED TO INTERSECTIONS AND SHALL BE MEASURED ALONG STREET CENTER LINES FROM THEIR POINT OF INTERSECTION.



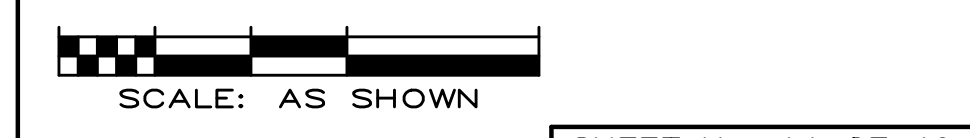
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK LANDSCAPE DETAIL PLAN

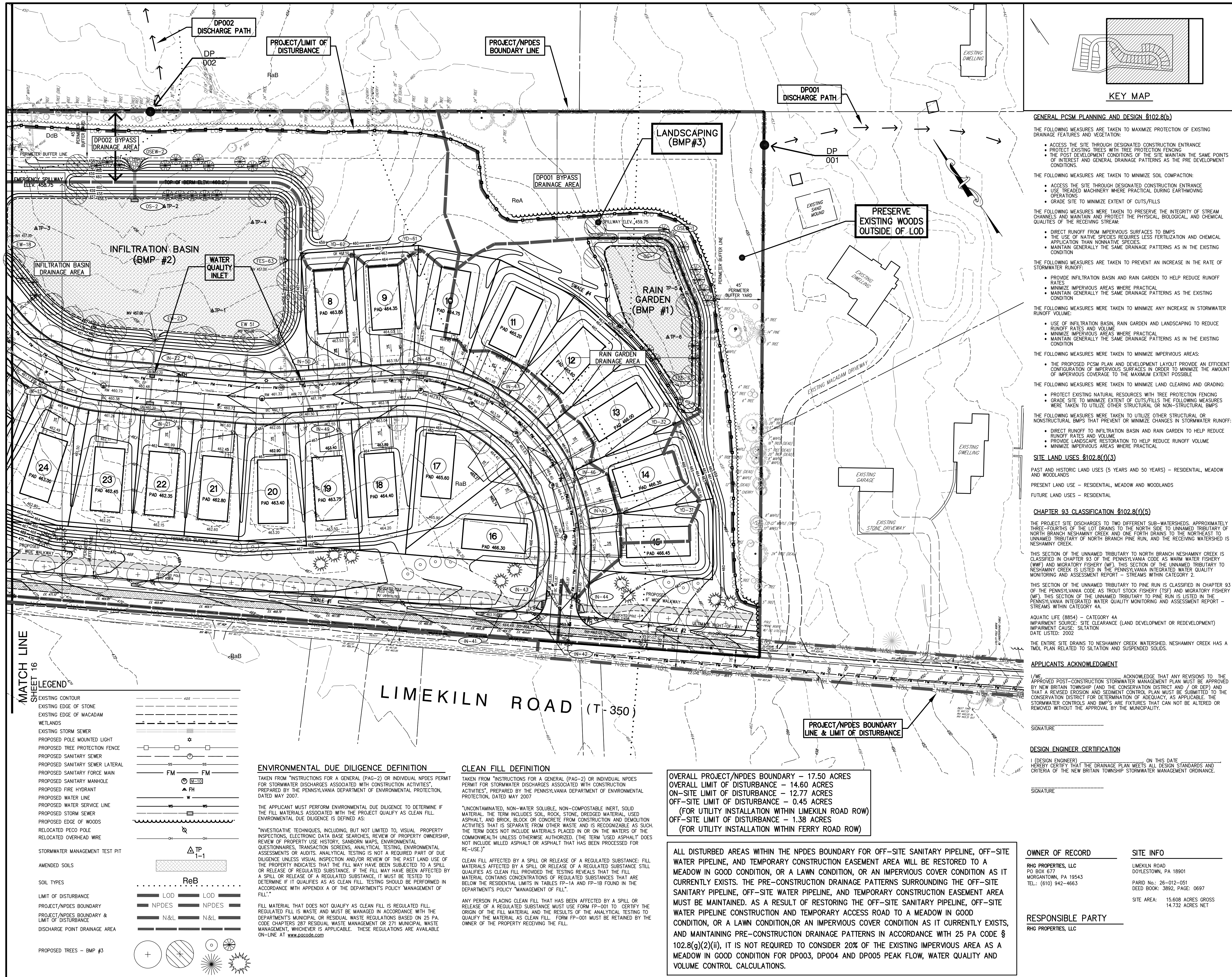
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND



SHEET No. 14 OF 49



GENERAL PCSM PLANNING AND DESIGN §102.8(l)

THE FOLLOWING MEASURES ARE TAKEN TO MAXIMIZE PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION:

- ACCESS THE SITE THROUGH DESIGNATED CONSTRUCTION ENTRANCE
- PROTECT EXISTING TREES WITH TREE PROTECTION FENCING
- THE POST DEVELOPMENT CONDITIONS OF THE SITE MAINTAIN THE SAME POINTS OF INTEREST AND GENERAL DRAINAGE PATTERNS AS THE PRE DEVELOPMENT CONDITIONS.

THE FOLLOWING MEASURES ARE TAKEN TO MINIMIZE SOIL COMPACTION:

- ACCESS THE SITE THROUGH DESIGNATED CONSTRUCTION ENTRANCE
- USE TREADED MACHINERY WHERE PRACTICAL DURING EARTHMOVING OPERATIONS
- GRADE SITE TO MINIMIZE EXTENT OF CUTS/FILLS

THE FOLLOWING MEASURES WERE TAKEN TO PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM:

- DIRECT RUNOFF FROM IMPERVIOUS SURFACES TO BMPs
- THE USE OF NATIVE SPECIES REQUIRES LESS FERTILIZATION AND CHEMICAL APPLICATION THAN NONNATIVE SPECIES
- MAINTAIN GENERALLY THE SAME DRAINAGE PATTERNS AS IN THE EXISTING CONDITION

THE FOLLOWING MEASURES ARE TAKEN TO PREVENT AN INCREASE IN THE RATE OF STORMWATER RUNOFF:

- PROVIDE INFILTRATION BASIN AND RAIN GARDEN TO HELP REDUCE RUNOFF RATES
- MINIMIZE IMPERVIOUS AREAS WHERE PRACTICAL
- MAINTAIN GENERALLY THE SAME DRAINAGE PATTERNS AS THE EXISTING CONDITION

THE FOLLOWING MEASURES WERE TAKEN TO MINIMIZE ANY INCREASE IN STORMWATER RUNOFF VOLUME:

- USE OF INFILTRATION BASIN, RAIN GARDEN AND LANDSCAPING TO REDUCE RUNOFF RATES AND VOLUME
- MINIMIZE IMPERVIOUS AREAS WHERE PRACTICAL
- MAINTAIN GENERALLY THE SAME DRAINAGE PATTERNS AS IN THE EXISTING CONDITION

THE FOLLOWING MEASURES WERE TAKEN TO MINIMIZE IMPERVIOUS AREAS:

- THE PROPOSED PCSM PLAN AND DEVELOPMENT LAYOUT PROVIDE AN EFFICIENT CONFIGURATION OF IMPERVIOUS SURFACES IN ORDER TO MINIMIZE THE AMOUNT OF IMPERVIOUS COVERAGE TO THE MAXIMUM EXTENT POSSIBLE

THE FOLLOWING MEASURES WERE TAKEN TO MINIMIZE LAND CLEARING AND GRADING:

- PROTECT EXISTING NATURAL RESOURCES WITH TREE PROTECTION FENCING
- GRADE SITE TO MINIMIZE EXTENT OF CUTS/FILLS THE FOLLOWING MEASURES WERE TAKEN TO UTILIZE OTHER STRUCTURAL OR NON-STRUCTURAL BMPs

THE FOLLOWING MEASURES WERE TAKEN TO UTILIZE OTHER STRUCTURAL OR NONSTRUCTURAL BMPs THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF:

- DIRECT RUNOFF TO INFILTRATION BASIN AND RAIN GARDEN TO HELP REDUCE RUNOFF RATES AND VOLUME
- PROVIDE LANDSCAPING RESTORATION TO HELP REDUCE RUNOFF VOLUME
- MINIMIZE IMPERVIOUS AREAS WHERE PRACTICAL

SITE LAND USES §102.8(f)(3)
 PAST AND HISTORIC LAND USES (5 YEARS AND 50 YEARS) - RESIDENTIAL, MEADOW AND WOODLANDS
 PRESENT LAND USE - RESIDENTIAL, MEADOW AND WOODLANDS
 FUTURE LAND USES - RESIDENTIAL

CHAPTER 93 CLASSIFICATION §102.8(f)(5)
 THE PROJECT SITE DISCHARGES TO TWO DIFFERENT SUB-WATERSHEDS, APPROXIMATELY THREE-FOURTHS OF THE LOT DRAINS TO THE NORTH SIDE TO UNNAMED TRIBUTARY OF NORTH BRANCH NESHAMINY CREEK AND ONE FORTH DRAINS TO THE NORTHEAST TO UNNAMED TRIBUTARY OF NORTH BRANCH PINE RUN, AND THE RECEIVING WATERSHED IS NESHAMINY CREEK.

THIS SECTION OF THE UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK IS CLASSIFIED IN CHAPTER 93 OF THE PENNSYLVANIA CODE AS WARM WATER FISHERY (WF) AND MIGRATORY FISHERY (MF). THIS SECTION OF THE UNNAMED TRIBUTARY TO NESHAMINY CREEK IS LISTED IN THE PENNSYLVANIA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT - STREAMS WITHIN CATEGORY 2.

THIS SECTION OF THE UNNAMED TRIBUTARY TO PINE RUN IS CLASSIFIED IN CHAPTER 93 OF THE PENNSYLVANIA CODE AS TROUT STOCK FISHERY (TSF) AND MIGRATORY FISHERY (MF). THIS SECTION OF THE UNNAMED TRIBUTARY TO PINE RUN IS LISTED IN THE PENNSYLVANIA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT - STREAMS WITHIN CATEGORY 4A.

AQUATIC LIFE (8854) - CATEGORY 4A
 IMPAIRMENT SOURCE: SITE CLEARANCE (LAND DEVELOPMENT OR REDEVELOPMENT)
 IMPAIRMENT CAUSE: SILTATION
 DATE LISTED: 2002

THE ENTIRE SITE DRAINS TO NESHAMINY CREEK WATERSHED. NESHAMINY CREEK HAS A TMDL PLAN RELATED TO SILTATION AND SUSPENDED SOLIDS.

APPLICANTS ACKNOWLEDGMENT
 I/WE, _____, ACKNOWLEDGE THAT ANY REVISIONS TO THE APPROVED POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN MUST BE APPROVED BY NEW BRITAIN TOWNSHIP (AND THE CONSERVATION DISTRICT AND / OR DEP) AND THAT A REVISED EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE CONSERVATION DISTRICT FOR DETERMINATION OF ADEQUACY, AS APPLICABLE. THE STORMWATER CONTROLS AND BMP'S ARE FIXTURES THAT CAN NOT BE ALTERED OR REMOVED WITHOUT THE APPROVAL BY THE MUNICIPALITY.

DESIGN ENGINEER CERTIFICATION
 I (DESIGN ENGINEER) _____ ON THIS DATE HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE NEW BRITAIN TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

SIGNATURE _____
 SIGNATURE _____

OWNER OF RECORD
 RHG PROPERTIES, LLC
 PO BOX 677
 MORGANTOWN, PA 19543
 TEL: (610) 942-4663

SITE INFO
 LIMCKILN ROAD, PA 18001
 PARID NO: 26-012-051
 DEED BOOK: 3892, PAGE: 0697

RESPONSIBLE PARTY
 RHG PROPERTIES, LLC

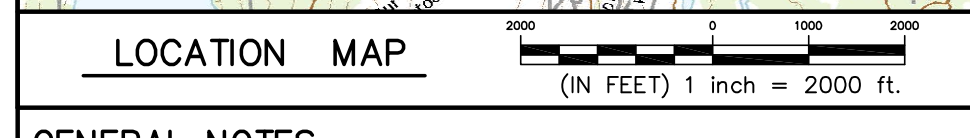
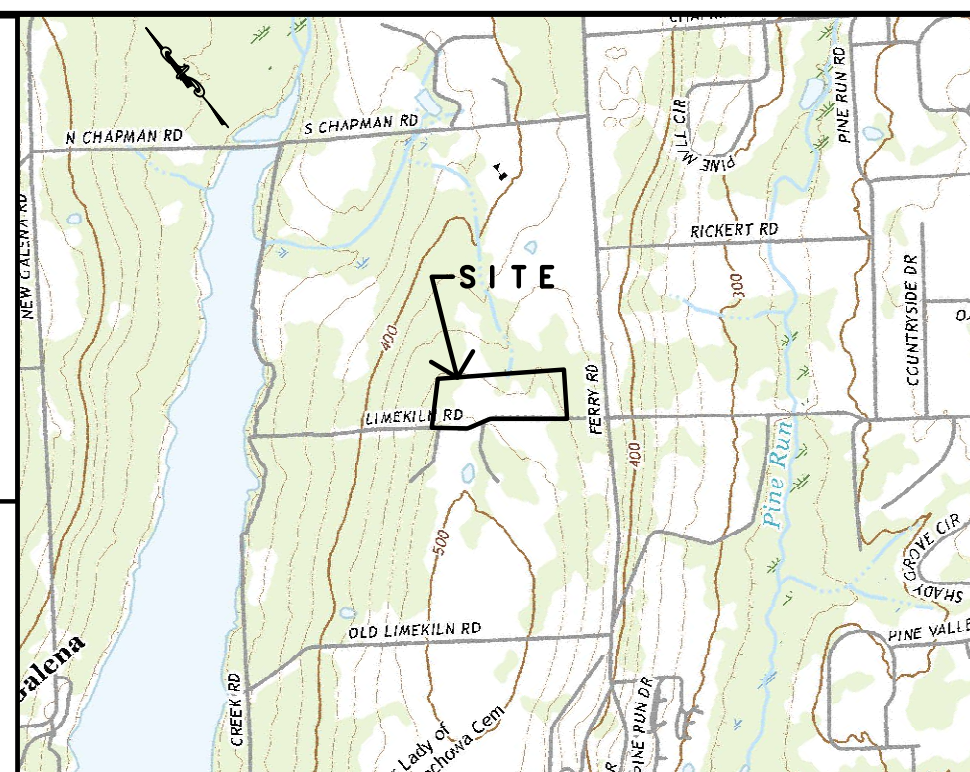
SITE AREA: 15.608 ACRES GROSS
 14.732 ACRES NET

REVISIONS

DATE	DESCRIPTION

GALETA RESERVE MOBILE HOME PARK
 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (1 OF 8)
 PREPARED FOR
RHG PROPERTIES, LLC.
 SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

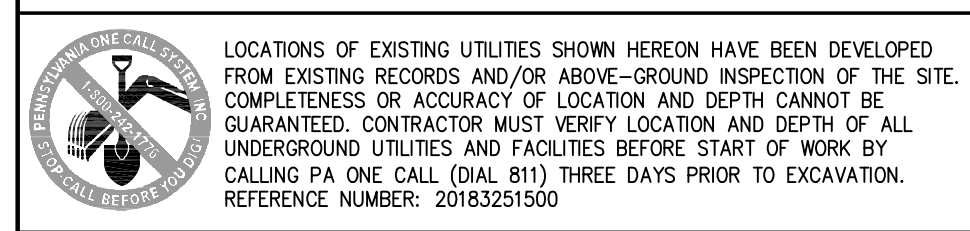
SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND
 SCALE: 1" = 40'
 SHEET No. 15 OF 49



GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408 OR NEW BRITAIN TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
2. ALL CONTRACTORS PROVIDING CONSTRUCTION SERVICES AT THIS SITE (OR SITE RELATED CONSTRUCTION) SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS. URWILER & WALTER, INC., NEW BRITAIN TOWNSHIP, ITS AGENTS AND ASSIGNS WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LIABILITY ARISING FROM THE FAILURE OF ANY PARTY TO CONFORM WITH THE APPLICABLE OSHA STANDARDS AND REGULATIONS.
3. INFILTRATION BASIN AND RAIN GARDEN AMENDED SOILS AREA TO BE SEEDED WITH ERNST RAIN GARDEN GRASS MIX (ERNMX-180-1).
4. SEE SHEET 18 FOR LANDSCAPING CHART.
5. THE PROPERTY OWNER SHALL HAVE THE RESPONSIBILITY FOR THE PERPETUAL MAINTENANCE OF THE PERMANENT STORMWATER BMP'S AND PIPES WHICH ARE LOCATED ON HIS PROPERTY. NO CHANGES SHALL BE MADE TO THE STRUCTURES, PIPES OR FINISH GRADING WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWNSHIP. THE TOWNSHIP HAS THE RIGHT TO ENTER THE LOT TO PERFORM ANY REQUIRED MAINTENANCE WHICH HAS NOT BEEN PROPERLY PERFORMED OR CARRIED OUT IN A TIMELY MANNER. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE COST OF ANY MAINTENANCE WHICH IS PERFORMED BY THE TOWNSHIP. THE TOWNSHIP SHALL LIEN THE PROPERTY FOR SAID COSTS UNTIL THE TOWNSHIP HAS BEEN REIMBURSED IN FULL.
6. IT SHALL BE UNLAWFUL TO ALTER OR REMOVE ANY PERMANENT STORMWATER BMP REQUIRED BY AN APPROVED BMP OPERATIONS AND MAINTENANCE PLAN, OR ALLOW THE PROPERTY TO REMAIN IN A CONDITION WHICH DOES NOT CONFORM TO AN APPROVED BMP OPERATIONS AND MAINTENANCE PLAN, UNLESS AN EXCEPTION IS GRANTED IN WRITING BY THE TOWNSHIP.
7. THE NEW BRITAIN TOWNSHIP IS GRANTED A BLANKET EASEMENT TO ACCESS EVERY CONVEYANCE AND BMP LOCATED ON THE PROPERTY FOR INSPECTION AND MAINTENANCE OR PRESERVATION OF STORMWATER RUNOFF CONVEYANCE, INFILTRATION AND DETENTION AREAS. THE NEW BRITAIN TOWNSHIP MAY UNDERTAKE ANY ACTION NECESSARY TO ENFORCE STORMWATER WATER MANAGEMENT REGULATIONS OF O&M PLAN AND O&M AGREEMENT. THIS SHALL BE A RIGHT OF THE TOWNSHIP BUT SHALL NOT BE CONSIDERED AS AN OBLIGATION OR DUTY.
8. CONSTRUCTION WASTE INCLUDES MILLINGS, CONCRETE, BLOCK, WOOD, LANDSCAPING, SEDIMENT / SILT, ETC.
9. THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 2601. ET SEQ., 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
10. SEDIMENT/SILT REMOVAL FROM BMP'S SHALL BE DISPOSED OF WITHIN LANDSCAPE AREAS ON-SITE. IF THE QUANTITY OF SEDIMENT/SILT EXCEEDS THE LANDSCAPE AREA ABILITY TO ACCEPT IT, DISPOSAL OF THIS MATERIAL WILL BE HAULED TO AN APPROVED CONSTRUCTION WASTE DISPOSAL SITE.
11. TREE PROTECTION FENCE USED TO PROTECT STORMWATER BMP'S SHALL BE REMOVED AT TIME OF STABILIZATION.
12. REFER TO SHEET 22 FOR SITE DISCHARGE MAP.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500



ENVIRONMENTAL DUE DILIGENCE DEFINITION

TAKEN FROM "INSTRUCTIONS FOR A GENERAL (PAGE-2) OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES", PREPARED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MAY 2007.

THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS:

"INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY 'MANAGEMENT OF FILL'."

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT www.pdcodes.com

CLEAN FILL DEFINITION

TAKEN FROM "INSTRUCTIONS FOR A GENERAL (PAGE-2) OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES", PREPARED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED MAY 2007

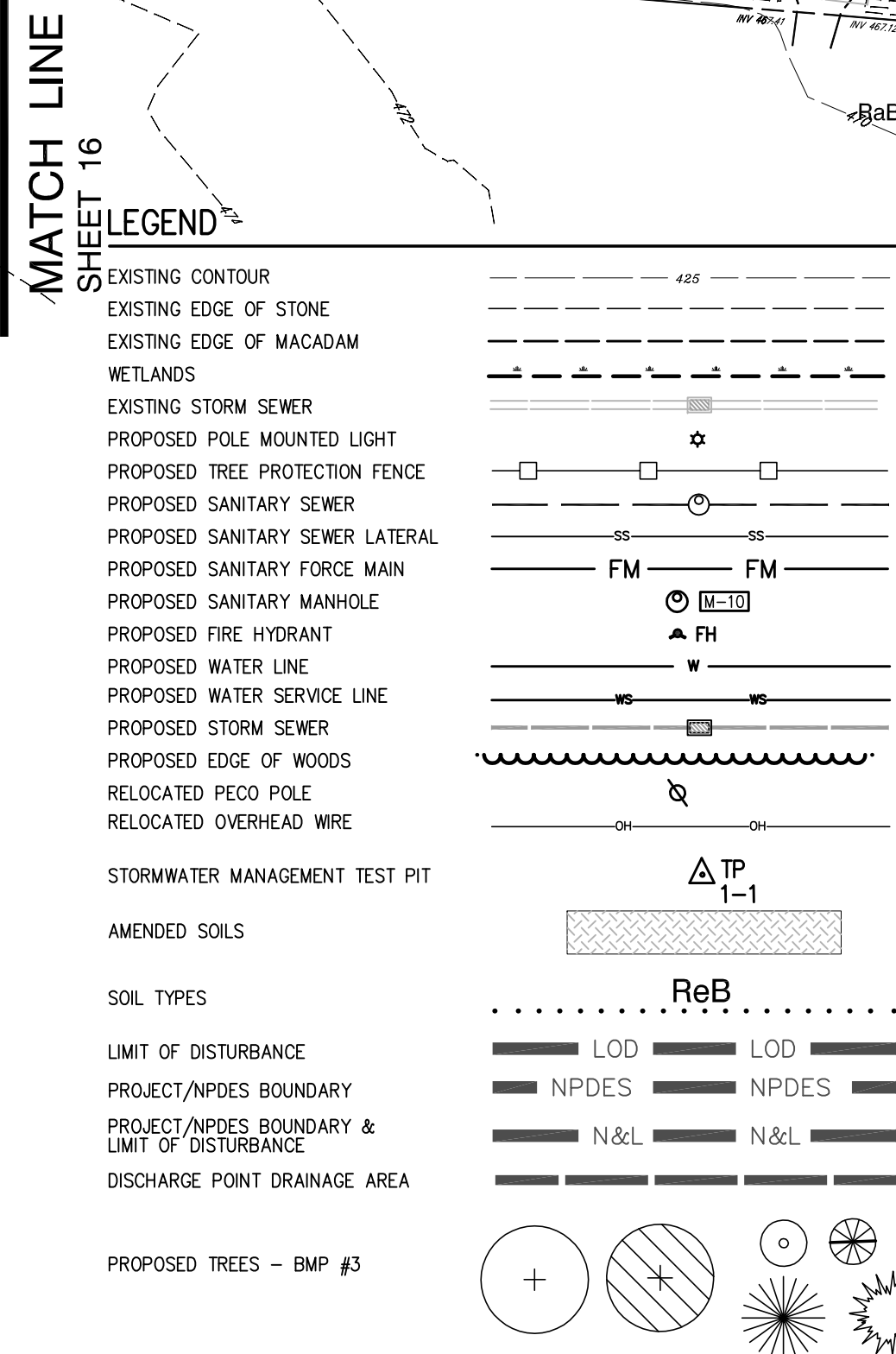
"UNCONTAMINATED, NON-WATER SOLUBLE, NON-COMPOSTABLE INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM 'USED ASPHALT' DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)"

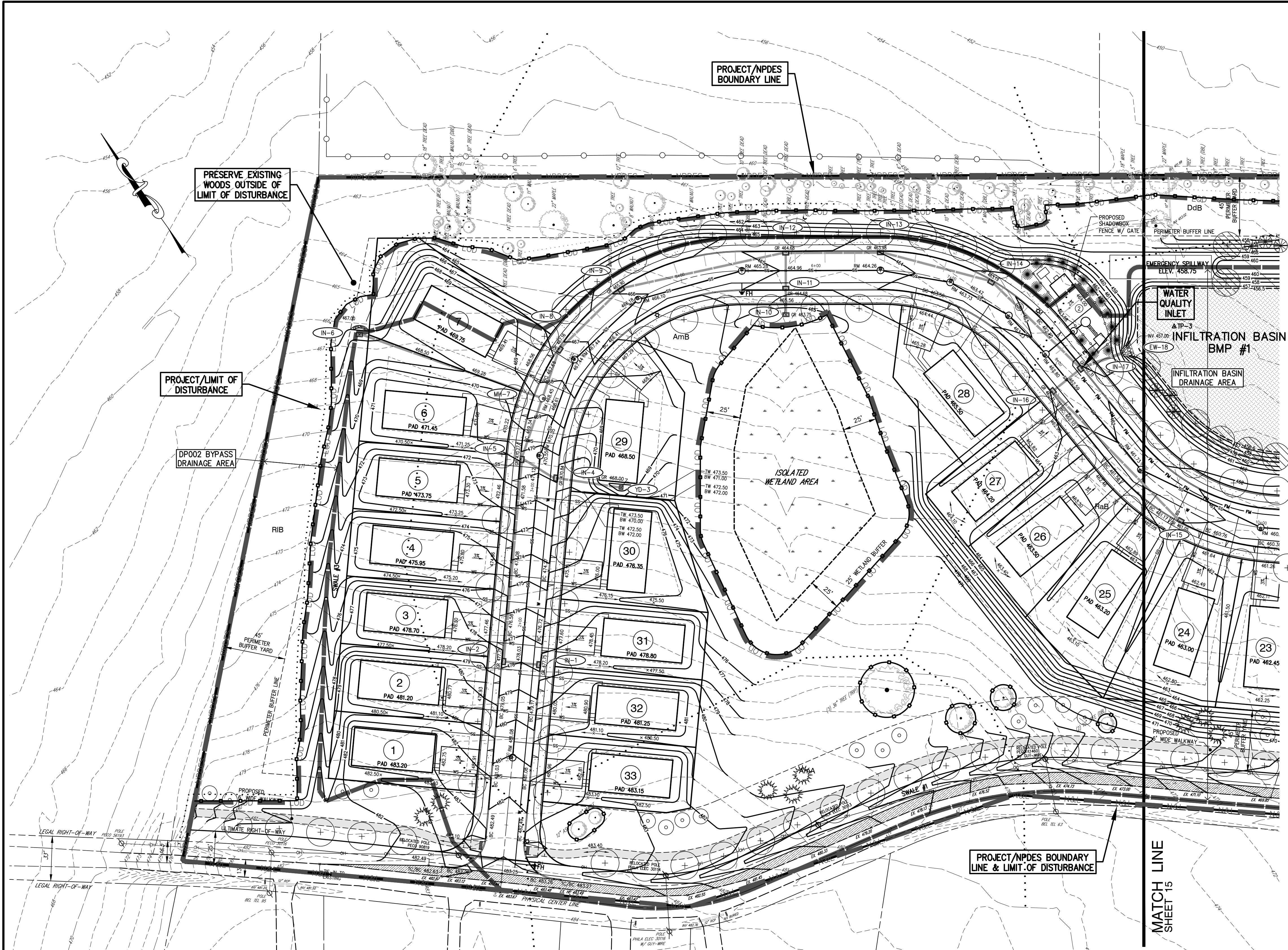
CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY 'MANAGEMENT OF FILL'."

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

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
 ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
 OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
 (FOR UTILITY INSTALLATION WITHIN LIMCKILN ROAD ROW)
 OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
 (FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

ALL DISTURBED AREAS WITHIN THE NPDES BOUNDARY FOR OFF-SITE SANITARY PIPELINE, OFF-SITE WATER PIPELINE, AND TEMPORARY CONSTRUCTION EASEMENT AREA WILL BE RESTORED TO A MEADOW IN GOOD CONDITION, OR A LAWN CONDITION, OR AN IMPERVIOUS COVER CONDITION AS IT CURRENTLY EXISTS. THE PRE-CONSTRUCTION DRAINAGE PATTERNS SURROUNDING THE OFF-SITE SANITARY PIPELINE, OFF-SITE WATER PIPELINE, AND TEMPORARY CONSTRUCTION EASEMENT AREA MUST BE MAINTAINED. AS A RESULT OF RESTORING THE OFF-SITE SANITARY PIPELINE, OFF-SITE WATER PIPELINE CONSTRUCTION AND TEMPORARY ACCESS ROAD TO A MEADOW IN GOOD CONDITION, OR A LAWN CONDITION, OR AN IMPERVIOUS COVER CONDITION AS IT CURRENTLY EXISTS, AND MAINTAINING PRE-CONSTRUCTION DRAINAGE PATTERNS IN ACCORDANCE WITH 25 PA CODE § 102.8(g)(2)(ii), IT IS NOT REQUIRED TO CONSIDER 20% OF THE EXISTING IMPERVIOUS AREA AS A MEADOW IN GOOD CONDITION FOR DPO03, DPO04 AND DPO05 PEAK FLOW, WATER QUALITY AND VOLUME CONTROL CALCULATIONS.





GENERAL PCSM PLANNING AND DESIGN §102.8(d)

THE FOLLOWING MEASURES ARE TAKEN TO MAXIMIZE PROTECTION OF EXISTING CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM:

- ACCESS THE SITE THROUGH DESIGNATED CONSTRUCTION ENTRANCE
- PROTECT EXISTING TREES WITH TREE PROTECTION FENCING
- THE POST DEVELOPMENT CONDITIONS OF THE SITE MAINTAIN THE SAME POINTS OF INTEREST AND GENERAL DRAINAGE PATTERNS AS THE PRE DEVELOPMENT CONDITIONS.

THE FOLLOWING MEASURES ARE TAKEN TO MINIMIZE SOIL COMPACTION:

- ACCESS THE SITE THROUGH DESIGNATED CONSTRUCTION ENTRANCE
- USE TREADED MACHINERY WHERE PRACTICAL DURING EARTHMOVING OPERATIONS
- GRADE SITE TO MINIMIZE EXTENT OF CUTS/FILLS

THE FOLLOWING MEASURES WERE TAKEN TO PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM:

- DIRECT RUNOFF FROM IMPERVIOUS SURFACES TO BMPs
- THE USE OF NATIVE SPECIES REQUIRES LESS FERTILIZATION AND CHEMICAL APPLICATION THAN NONNATIVE SPECIES
- MAINTAIN GENERALLY THE SAME DRAINAGE PATTERNS AS IN THE EXISTING CONDITION

THE FOLLOWING MEASURES ARE TAKEN TO PREVENT AN INCREASE IN THE RATE OF STORMWATER RUNOFF:

- PROVIDE INFILTRATION BASIN AND RAIN GARDEN TO HELP REDUCE RUNOFF RATES
- MINIMIZE IMPERVIOUS AREAS WHERE PRACTICAL
- MAINTAIN GENERALLY THE SAME DRAINAGE PATTERNS AS THE EXISTING CONDITION

THE FOLLOWING MEASURES WERE TAKEN TO MINIMIZE ANY INCREASE IN STORMWATER RUNOFF VOLUME:

- USE OF INFILTRATION BASIN, RAIN GARDEN AND LANDSCAPING TO REDUCE RUNOFF RATES AND VOLUME
- MINIMIZE IMPERVIOUS AREAS WHERE PRACTICAL
- MAINTAIN GENERALLY THE SAME DRAINAGE PATTERNS AS IN THE EXISTING CONDITION

THE FOLLOWING MEASURES WERE TAKEN TO MINIMIZE IMPERVIOUS AREAS:

- THE PROPOSED PCSM PLAN AND DEVELOPMENT LAYOUT PROVIDE AN EFFICIENT CONFIGURATION OF IMPERVIOUS SURFACES TO MINIMIZE THE AMOUNT OF IMPERVIOUS COVERAGE TO THE MAXIMUM EXTENT POSSIBLE.

THE FOLLOWING MEASURES WERE TAKEN TO MINIMIZE LAND CLEARING AND GRADING:

- PROTECT EXISTING NATURAL RESOURCES WITH TREE PROTECTION FENCING
- GRADE SITE TO MINIMIZE EXTENT OF CUTS/FILLS THE FOLLOWING MEASURES WERE TAKEN TO UTILIZE OTHER STRUCTURAL OR NON-STRUCTURAL BMPs THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF:

THE FOLLOWING MEASURES WERE TAKEN TO UTILIZE OTHER STRUCTURAL OR NON-STRUCTURAL BMPs THAT PREVENT OR MINIMIZE CHANGES IN STORMWATER RUNOFF:

- DIRECT RUNOFF TO INFILTRATION BASIN AND RAIN GARDEN TO HELP REDUCE RUNOFF RATES AND VOLUME
- PROVIDE LANDSCAPE RESTORATION TO HELP REDUCE RUNOFF VOLUME
- PROVIDE LANDSCAPE RESTORATION TO HELP REDUCE RUNOFF VOLUME

SITE LAND USES §102.8(f)(3)

PAST AND HISTORIC LAND USES (5 YEARS AND 50 YEARS) - RESIDENTIAL, MEADOW AND WOODLANDS

PRESENT LAND USE - RESIDENTIAL, MEADOW AND WOODLANDS

FUTURE LAND USES - RESIDENTIAL

CHAPTER 93 CLASSIFICATION §102.8(f)(6)

THE PROJECT SITE DISCHARGES TO TWO DIFFERENT SUB-WATERSHEDS, APPROXIMATELY THREE-FOURTHS OF THE LOT DRAINS TO THE NORTH SIDE TO UNNAMED TRIBUTARY OF NORTH BRANCH NESHAMINY CREEK AND THE NORTH EAST TO UNNAMED TRIBUTARY OF NORTH BRANCH PINE RUN, AND THE RECEIVING WATERSHED IS NESHAMINY CREEK.

THIS SECTION OF THE UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK IS CLASSIFIED IN CHAPTER 93 OF THE PENNSYLVANIA CODE AS WARM WATER FISHERY (WFF) AND MIGRATORY FISHERY (MF). THIS SECTION OF THE UNNAMED TRIBUTARY TO NESHAMINY CREEK IS LISTED IN THE PENNSYLVANIA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT - STREAMS WITHIN CATEGORY 2.

THIS SECTION OF THE UNNAMED TRIBUTARY TO PINE RUN IS CLASSIFIED IN CHAPTER 93 OF THE PENNSYLVANIA CODE AS TROUT STOCK FISHERY (TSF) AND MIGRATORY FISHERY (MF). THIS SECTION OF THE UNNAMED TRIBUTARY TO PINE RUN IS LISTED IN THE PENNSYLVANIA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT - STREAMS WITHIN CATEGORY 4A.

AQUATIC LIFE (8954) - CATEGORY 4A

IMPAIRMENT SOURCE: SITE CLEARANCE (LAND DEVELOPMENT OR REDEVELOPMENT)

IMPAIRMENT CAUSE: SILTATION

DATE LISTED: 2002

THE ENTIRE SITE DRAINS TO NESHAMINY CREEK WATERSHED. NESHAMINY CREEK HAS A TMDL PLAN RELATED TO SILTATION AND SUSPENDED SOLIDS.

APPLICANTS ACKNOWLEDGMENT

I/WE, _____, ACKNOWLEDGE THAT ANY REVISIONS TO THE APPROVED POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN MUST BE APPROVED BY NEW BRITAIN TOWNSHIP (AND THE CONSERVATION DISTRICT AND / OR DEP) AND THAT A REVISED EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE CONSERVATION DISTRICT FOR DETERMINATION OF ADEQUACY, AS APPLICABLE. THE STORMWATER CONTROLS AND BMPs ARE FIXTURES THAT CAN NOT BE ALTERED OR REMOVED WITHOUT THE APPROVAL BY THE MUNICIPALITY.

SIGNATURE _____

DESIGN ENGINEER CERTIFICATION

I (DESIGN ENGINEER) _____ ON THIS DATE HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE NEW BRITAIN TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

SIGNATURE _____

LEGEND

EXISTING CONTOUR ——— 485

EXISTING EDGE OF STONE ———

EXISTING EDGE OF MACADAM ———

WETLANDS ———

EXISTING STORM SEWER ———

PROPOSED POLE MOUNTED LIGHT ———

PROPOSED TREE PROTECTION FENCE ———

PROPOSED SANITARY SEWER ———

PROPOSED SANITARY SEWER LATERAL ———

PROPOSED SANITARY FORCE MAIN ———

PROPOSED SANITARY MANHOLE ———

PROPOSED FIRE HYDRANT ———

PROPOSED WATER LINE ———

PROPOSED WATER SERVICE LINE ———

PROPOSED STORM SEWER ———

PROPOSED EDGE OF WOODS ———

RELOCATED PECO POLE ———

RELOCATED OVERHEAD WIRE ———

STORMWATER MANAGEMENT TEST PIT ———

AMENDED SOILS ———

SOIL TYPES ———

LIMIT OF DISTURBANCE ——— LOD ———

PROJECT/NPDES BOUNDARY ——— NPDES ———

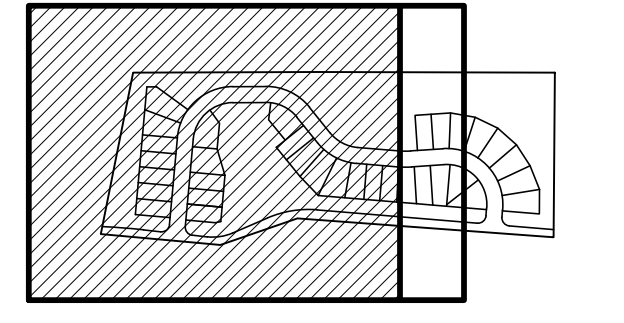
PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE ——— N&L ———

DISCHARGE POINT DRAINAGE AREA ———

PROPOSED TREES - BMP #3 ———

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
 ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
 OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
 (FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
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4. SEE SHEET 18 FOR LANDSCAPING CHART.
5. THE PROPERTY OWNER SHALL HAVE THE RESPONSIBILITY FOR THE PERPETUAL MAINTENANCE OF THE PERMANENT STORMWATER BMPs, AND PIPES WHICH ARE LOCATED ON HIS PROPERTY. NO CHANGES SHALL BE MADE TO THE STRUCTURES, PIPES OR FINISH GRADING WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWNSHIP. THE TOWNSHIP HAS THE RIGHT TO ENTER THE LOT TO PERFORM ANY REQUIRED MAINTENANCE WHICH HAS NOT BEEN PROPERLY PERFORMED OR CARRIED OUT IN A TIMELY MANNER. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE COST OF ANY MAINTENANCE WHICH IS PERFORMED BY THE TOWNSHIP. THE TOWNSHIP SHALL LIEN THE PROPERTY FOR SAID COSTS UNTIL THE TOWNSHIP HAS BEEN REIMBURSED IN FULL.
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OWNER OF RECORD
 RHG PROPERTIES, LLC
 PO BOX 677
 MORGANTOWN, PA 19543
 TEL: (610) 942-4863

SITE INFO
 LIMEKILN ROAD
 DOYLESTOWN, PA 18901
 PARID No.: 26-012-051
 DEED BOOK: 3892, PAGE: 0697
 SITE AREA: 15,608 ACRES GROSS
 14,732 ACRES NET

RESPONSIBLE PARTY
 RHG PROPERTIES, LLC

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

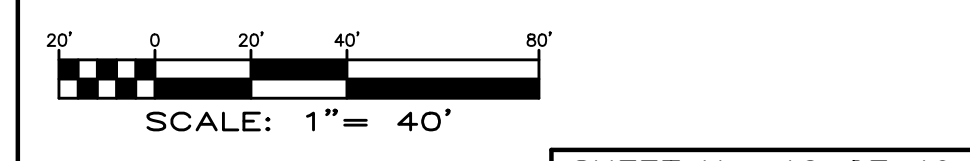
DATE	REVISIONS
	DESCRIPTION

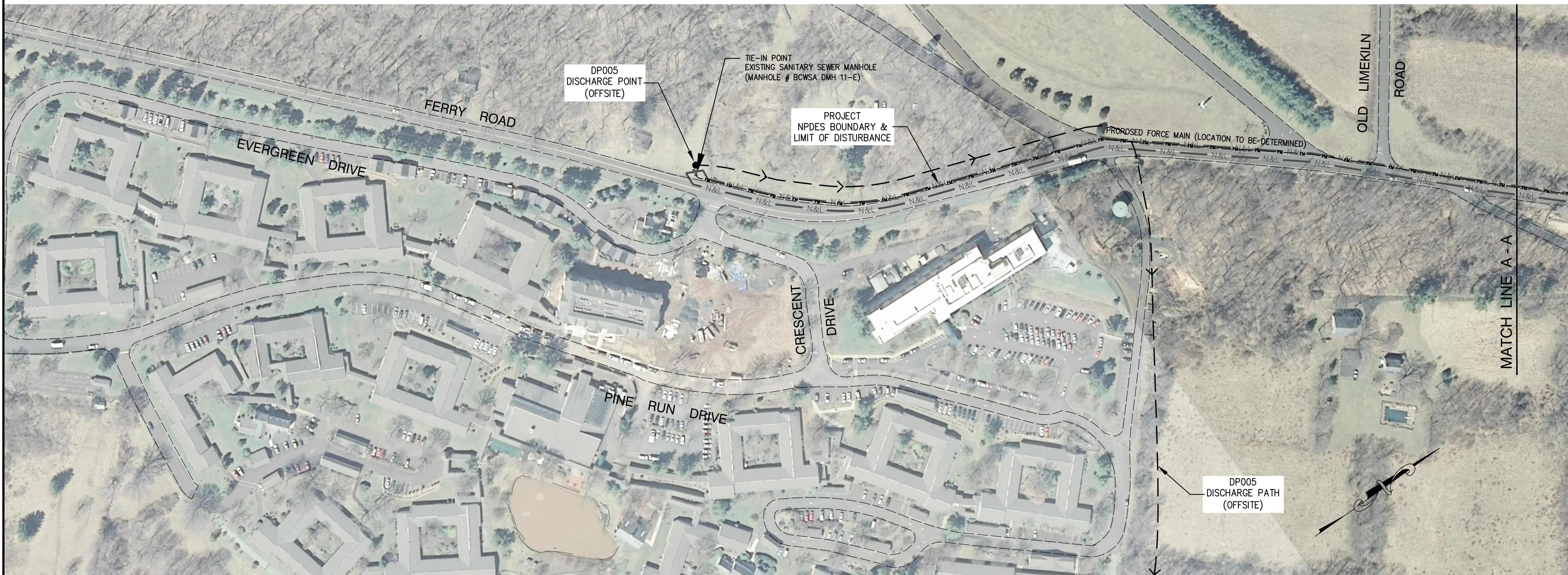
GALENA RESERVE MOBILE HOME PARK
 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (2 OF 8)
 PREPARED FOR

RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND





GENERAL NOTES

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9. THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOIL WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 2601 ET SEQ, 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
SEDIMENT/SILT REMOVAL FROM BMP'S SHALL BE DISPOSED OF WITHIN LANDSCAPE AREAS ON-SITE. IF THE QUANTITY OF SEDIMENT/SILT EXCEEDS THE LANDSCAPE AREA ABILITY TO ACCEPT IT, DISPOSAL OF THIS MATERIAL WILL BE HAULED TO AN APPROVED CONSTRUCTION WASTE DISPOSAL SITE.
10. TREE PROTECTION FENCE USED TO PROTECT STORMWATER BMP'S SHALL BE REMOVED AT TIME OF STABILIZATION.
11. REFER TO SHEET 22 FOR SITE DISCHARGE MAP.

LEGEND

- EXISTING EDGE OF MACADAM
- ADJOINING PROPERTY LINE
- PROPOSED SANITARY FORCE MAIN
- PROPOSED WATER MAIN
- PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
 ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
 OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
 (FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
 OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
 (FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
POST CONSTRUCTION STORMWATER
MANAGEMENT PLAN (3 OF 8)
 PREPARED FOR

RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND



SHEET No. 17 OF 49

TABLE 11.2 Soil Amendment Application Rate Equivalents

Table with 4 columns: Soil Amendment, Per Acre, Per 1,000 sq. ft., Per 1,000 sq. yd., and Notes. Rows include Agricultural lime, 10-10-20 fertilizer, and 10-10-10 fertilizer.

Adapted from Penn State, 'Erosion Control and Conservation Plantings on Noncropland'
NOTE: A compost blanket which meets the standards of this chapter may be substituted for the soil amendments shown in Table 11.2.

RECOMMENDED SEEDING MIXTURES

- 1. TEMPORARY SEEDING: ANNUAL RYE GRASS (40 LBS/ACRE)
2. PERMANENT SEEDING: SEED MIXTURE: TALL FESCUE (PLS - 60 LBS/ACRE) OR FINE FESCUE (PLS - 35 LBS/ACRE)...

TEMPORARY STABILIZATION WITH SEED

- 1. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN TWELVE (12) MONTHS MUST BE SEEDED AND MULCHED IMMEDIATELY WITH A TEMPORARY COVER.
2. ALL AREAS TO BE PERMANENTLY SEEDDED SHALL ALSO RECEIVE TEMPORARY SEEDING CONCURRENTLY.

TOPSOIL APPLICATION

- 1. TOPSOIL SHALL CONSIST OF FRIABLE SURFACE SOIL REASONABLY FREE OF GRASS, ROOTS, WEEDS, STICKS, STONES, OR OTHER FOREIGN MATERIALS. THE TOPSOIL SHALL CONSIST OF SANDY LOAM WITH SOIL PARTICLES WITHIN THE FOLLOWING PERCENTAGES: clay, 0-25; silt, 25-50; sand, 50-70; decomposed organic matter, 5-10.
2. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.

UTILITY TRENCH EXCAVATION

- 1. LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
2. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUS INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.

VEGETATIVE STABILIZATION

- 1. ALL DISTURBED AREAS THAT HAVE NOT OTHERWISE BEEN STABILIZED AND HAVE SIGNIFICANT POTENTIAL FOR EROSION SHOULD BE STABILIZED WITH VEGETATION. THIS INCLUDES GRADED AREAS WHERE IT IS ANTICIPATED THAT FUTURE EARTHMOVING WILL TAKE PLACE WITHIN THE COMING YEAR.
2. CRITICAL AREAS - ERODIBLE SOILS, WITHIN 50 FEET OF A SURFACE WATER, ETC. - SHOULD BE BLANKETED. TEMPORARY EROSION CONTROL BMPs THAT WERE INSTALLED FOR THE EARTHMOVING PHASE OF THE PROJECT MUST REMAIN IN PLACE AND BE MAINTAINED IN WORKING ORDER UNTIL PERMANENT STABILIZATION IS ACHIEVED.

STABILIZATION WITH MULCH

- 1. MULCHING IS MOST APPLICABLE TO THOSE AREAS SUBJECT TO PERIODIC DISTURBANCE AND REWORKING IN ADDITION, STABILIZATION WITH FIBER MULCH SHALL BE USED DURING NON-GERMINATION PERIODS.
2. MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN TABLE 11.6.
3. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDLOWN.

TABLE 11.6 Mulch Application Rates

Table with 4 columns: Mulch Type, Per Acre, Per 1,000 sq. ft., Per 1,000 sq. yd., and Notes. Rows include Straw, Hay, Wood Chips, and Hydromulch.

TABLE 11.1 Cubic Yards of Topsoil Required for Application to Various Depths

Table with 3 columns: Depth (in), Per 1,000 Square Feet, Per Acre. Rows show depths from 1 to 9 inches.

PERMANENT STABILIZATION WITH SEED

- 1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
2. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3-5 INCHES TO PROVIDE A GOOD BOND WITH THE TOPSOIL.

BCCD - STANDARD E&S NOTES

THE FOLLOWING NOTES SHOULD BE PLACED ON THE E&S PLAN DRAWINGS.

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN.
2. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUS INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
3. WORK WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING TO A FACILITY FOR REMOVAL OF SEDIMENT (SEDIMENT FILTER BAG, SEE DETAIL) BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS.

STAGING OF EARTHMOVING ACTIVITIES

- CONSTRUCTION SHALL BE DONE IN ONE (1) TOTAL PHASE.
A. OVERALL PROJECT/NPDES BOUNDARY- 17.40 ACRES
B. OVERALL LIMIT OF DISTURBANCE: 14.60 ACRES
C. ON-SITE LIMIT OF DISTURBANCE- 12.77 ACRES
D. OFF-SITE LIMIT OF DISTURBANCE- 0.45 ACRES

THE APPLICANT OR ASSIGNS SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROLS FOR ALL PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE.

- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED.
A. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES INCLUDING, BUT NOT LIMITED TO: THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS AND A REPRESENTATIVE OF THE COUNTY CONSERVATION DISTRICT...

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING ACT 187 (1-800-242-1776) THREE DAYS PRIOR TO EXCAVATION.

UPON THE 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 SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.

GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES PRIOR TO TOPSOIL PLACEMENT TO PERMIT BONDING OF THE TOPSOIL. THE PERMITTEE SHALL PROVIDE EROSION CONTROL FOR THE SCARIFYING OF THE SUBSOIL. A LICENSED PROFESSIONAL OR DESIGNEE KNOWLEDGEABLE IN THE SCARIFYING OF SUBSOIL, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT THE OVERSIGHT.

BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE COUNTY CONSERVATION DISTRICT.

DEMOLITION OF EXISTING IMPROVEMENTS AS FOLLOWS:
1. THE CONTRACTOR SHALL CLEARLY DELINEATE ALL PROPOSED DISTURBANCE LIMITS WITH CONSTRUCTION STAKING AND/OR CONSTRUCTION FENCINGS AS INDICATED ON THE PLANS.
2. INSTALL TREE/CONSTRUCTION PROTECTION FENCING AROUND THE TREES TO REMAIN, AND RAIN GARDEN AT THE LOCATIONS SHOWN ON THE PLANS.

DEMOLITION OF EXISTING IMPROVEMENTS AS FOLLOWS:
1. THE CONTRACTOR SHALL CLEARLY DELINEATE ALL PROPOSED DISTURBANCE LIMITS WITH CONSTRUCTION STAKING AND/OR CONSTRUCTION FENCINGS AS INDICATED ON THE PLANS.
2. INSTALL TREE/CONSTRUCTION PROTECTION FENCING AROUND THE TREES TO REMAIN, AND RAIN GARDEN AT THE LOCATIONS SHOWN ON THE PLANS.

- 15. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
16. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN.
17. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

TEMPORARY GRADING FOR SEDIMENT FACILITY CONSTRUCTION AS FOLLOWS:
8. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE WITH WASH RACK AS SHOWN ON THE PLANS. ERECT SIGNAGE AT THE SAME LOCATION WITH WORKING CONSTRUCTION ENTRANCE.

- 9. CLEAR AND GRUB ONLY IN AREAS NECESSARY TO CONSTRUCT SEDIMENT BASIN, STRIP TOPSOIL AND PLACE TOPSOIL IN THE DESIGNATED TOPSOIL STOCKPILE LOCATION SHOWN ON THE PLAN. TOPSOIL STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS.
10. CONSTRUCT SEDIMENT BASIN WITH ALL ASSOCIATED APPURTENANCES: PERMANENT OUTLET STRUCTURE, KEY TRENCH, CONCRETE ANTI-SEEP COLLARS, OUTLET PIPE, ENDWALL, ROCK RIP RAP, TEMPORARY CLEAN-OUT STAKES AND SKIMMER.
11. SIMULTANEOUSLY WHILE CONSTRUCTING SEDIMENT BASIN, INSTALL COMPOST FILTER SOCK SEDIMENT TRAP AS SHOWN ON THE PLANS.

- 12. THE SEDIMENT BASIN AND COMPOST FILTER SOCK SEDIMENT TRAP MUST BE STABILIZED AND FUNCTIONING PROPERLY PRIOR TO ANY FURTHER EARTH DISTURBANCE ACTIVITIES IN THEIR DRAINAGE AREAS.
13. CLEAR AND GRUB ONLY IN AREAS NECESSARY TO INSTALL TEMPORARY DIVERSION BERM AND TEMPORARY SWALE DRAINAGE SYSTEMS.
14. ONCE THE SEDIMENT BASIN AND COMPOST FILTER SOCK SEDIMENT TRAP ARE CONSTRUCTED, THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION RUNOFF IS DIRECTED TO SEDIMENT BASIN AND COMPOST FILTER SOCK SEDIMENT TRAP.

- 15. PROVIDE GENERAL SITE LAYOUT.
16. CLEAR AND GRUB INTERNAL ROAD AREA, AS REQUIRED FOR GRADING AND CONSTRUCTION ACTIVITY. STRIP TOPSOIL AND PLACE TOPSOIL IN THE DESIGNATED TOPSOIL STOCKPILE LOCATION SHOWN ON THE PLAN.
17. INSTALL CONSTRUCTION WASHOUT AT THE LOCATION SHOWN ON THE PLAN.
18. BEGIN TO CONSTRUCT STORMWATER CONVEYANCE PIPING AND INLET SYSTEM, GRAVITY SEWER MAIN, SANITARY FORCE MAIN, WATER MAIN AND OTHER UTILITIES WITHIN THE INTERNAL ROAD.
19. REMOVE THE TEMPORARY DIVERSION BERM AND TEMPORARY SWALE DRAINING TO SEDIMENT BASIN SINCE THE INTERNAL ROAD IS ROUGH GRADED WITH INLETS.

SOILS DATA:

SOILS DATA OBTAINED FROM USDA-NATURAL RESOURCES CONSERVATION SERVICES-WE8 SOIL SURVEY-NATURAL COOPERATIVE SOIL SURVEY.

Table with 4 columns: Soil Code, Soil Name, Slope, and Slopes. Rows include Amw, D0b, R0b, R1b, Amw, D0b, R0b, R1b.

LIMITATIONS OF PENNSYLVANIA SOILS PERTAINING TO EARTHMOVING PROJECTS

NOTE: THIS IS NOT AN ALL-INCLUSIVE LIST. ABSENCE OF AN X DOES NOT MEAN "NO POTENTIAL LIMITATION" FOR MORE COMPREHENSIVE LIST OF SOIL LIMITATIONS, LOG ONTO THE NRCS WEBSITE AT: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.

Large table with multiple columns: Soil Name, Curbans Cave, Amwell, Doylestown, Raritan, Redbank, Reaville, etc. Rows indicate various soil characteristics with X or blank cells.

SOIL RESOLUTIONS

CUTBANKS CAVE - GRADE ALL SLOPES TO 4:1 OR FLATTER.
CORROSIVE TO CONCRETE / J STEEL - PROVIDE POLYMERS TO PROTECT CONCRETE AND STEEL.
DROUGHTY - IRRIGATE SOILS TO PREVENT WILTING.

EASILY ERODIBLE - STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION OR PROVIDE EROSION AND SEDIMENTATION CONTROL DEVICES AND FACILITIES TO RETAIN ENTRAINED SEDIMENT ON-SITE.
FLOODING - MINIMIZE OR ELIMINATE CONSTRUCTION WITHIN MAPPED AND ALLUVIAL SOILS.
DEPTH TO SATURATION ZONE / SEASONAL HIGH WATER TABLE - PROVIDE UNDERDRAINS TO ELIMINATE A PERSISTENT HIGH WATER TABLE.

HYDRO / HYDRIC INCLUSIONS - HYDRIC SOILS HAVE BEEN MAPPED BY NOVA CONSULTANTS, INC. NO WETLAND IMPACTS ARE PROPOSED FOR THIS PROJECT.
LOW STRENGTH / LANDSCAPE PRONE - GRADE SOILS TO 4:1 OR FLATTER.
SLOW PERCOLATION - ADD SAND OR ORGANICS TO INCREASE SOIL PERCOLATION RATES.
PIPING - USE ANTI-SEEP COLLARS TO ELIMINATE PIPING.

PONDING - PROVIDE POSITIVE GRADING WITH A 2% SLOPE, UNDERDRAINS OR A STORM SEWER CONVEYANCE SYSTEM.
POTENTIAL SINKHOLE - PERFORM GEOLOGIC EVALUATION FOR KARST GEOLOGY AND KARST SOIL.
WETNESS - PROVIDE POSITIVE GRADING OR UNDERDRAINS.

(A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL INSPECT THE RAIN GARDEN INSTALLATION)
16. BEGIN CONVERTING THE SEDIMENT BASIN TO FUNCTIONING PERMANENT INFILTRATION BASIN WITH ALL INSTALLED APPURTENANCES. REMOVE ALL SEDIMENT ACCUMULATION WITHIN THE SEDIMENT BASIN. REGRADE BASIN CONSTRUCTION, INSTALL ENGINEERING FILTER MEDIA IN THE BASIN BOTTOM.

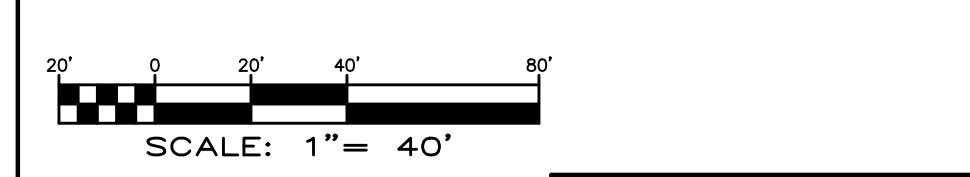
(A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL VERIFY THE INSTALLATION OF LANDSCAPE RESTORATION)
37. INSTALL ALL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN, INCLUDING LANDSCAPE RESTORATION.
38. THE NPDES (PERMITTEE) AND/OR (CO-PERMITTEE) IS RESPONSIBLE TO FILE A NOTICE OF TERMINATION WITH THE COUNTY CONSERVATION DISTRICT UPON COMPLETION AND STABILIZATION OF ALL EARTHMOVING ACTIVITIES.

GALENA RESERVE MOBILE HOME PARK POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (6 OF 8)

RHG PROPERTIES, LLC.

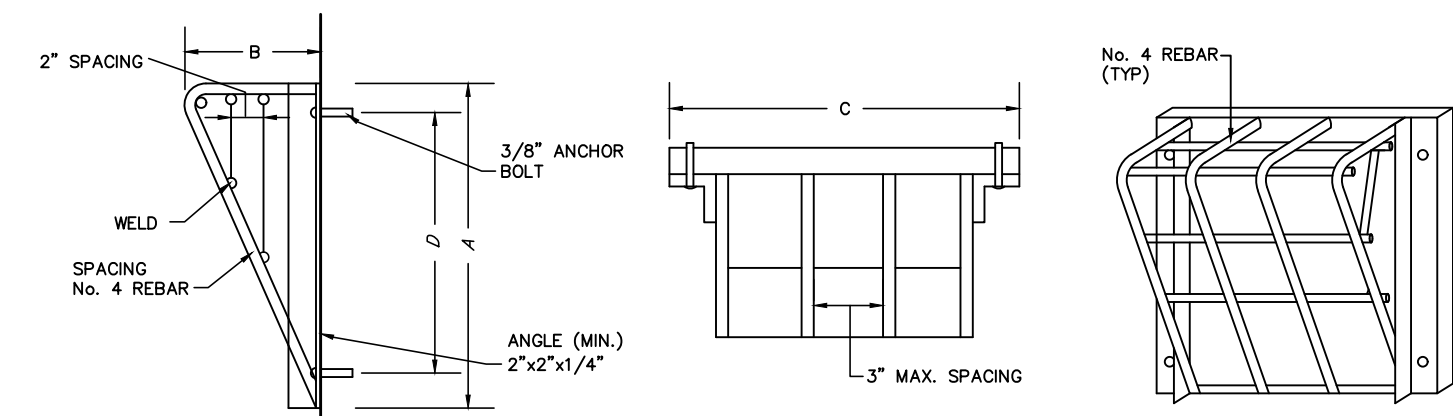
SITUATE IN NEW BRITAIN TOWNSHIP BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022 PROJECT No. 18075 FILE: 18075-LAND



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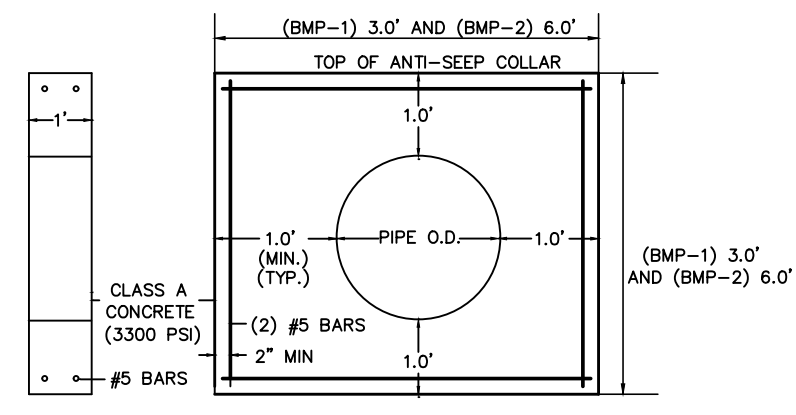
URWILER & WALTER, INC. CIVIL ENGINEERS & SURVEYORS P.O. BOX 269 3126 MAIN STREET SUNNYSIDE, PA. 18084



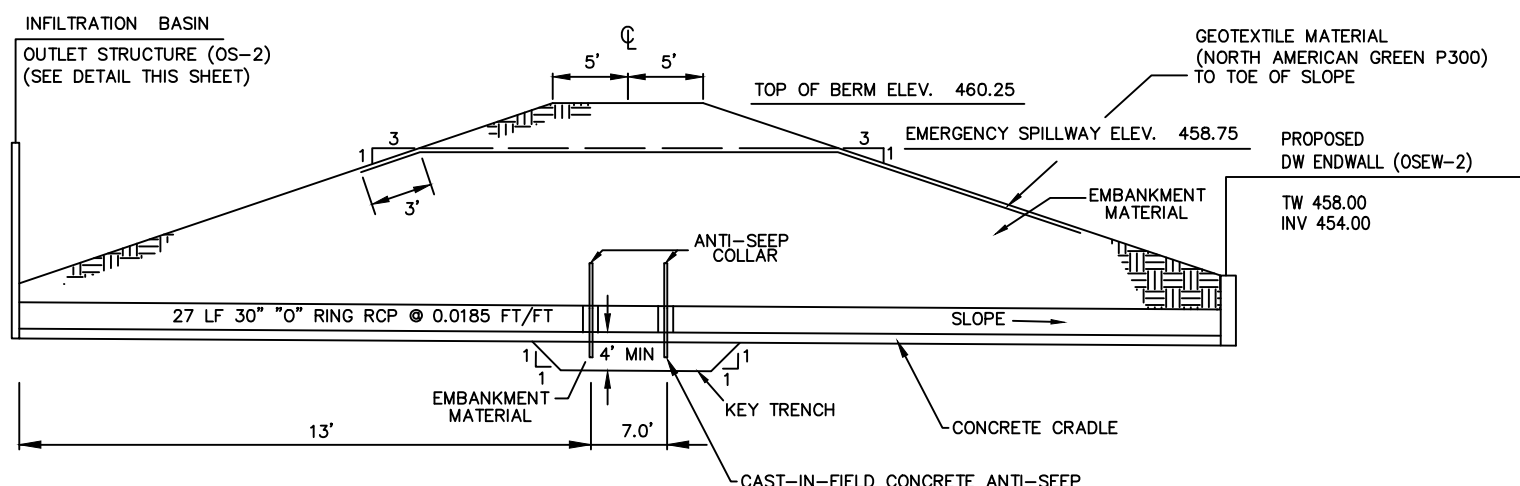
OUTLET STRUCTURE	TRASH RACK	A	B	C	D	QTY
BMP #1	RECTANGULAR ORIFICE 36"x 3"	10"	3"	44"	5"	1
BMP #2	RECTANGULAR ORIFICE 24"x 10"	17"	6"	28"	12"	2
BMP #2	RECTANGULAR ORIFICE 72"x 10"	17"	6"	72"	12"	1

TRASH RACK DETAIL NTS
NOTE: 1. AFTER RACK IS CONSTRUCTED (WELDED) THE ASSEMBLY SHALL BE PAINTED WITH A RUST PROOF COATING.

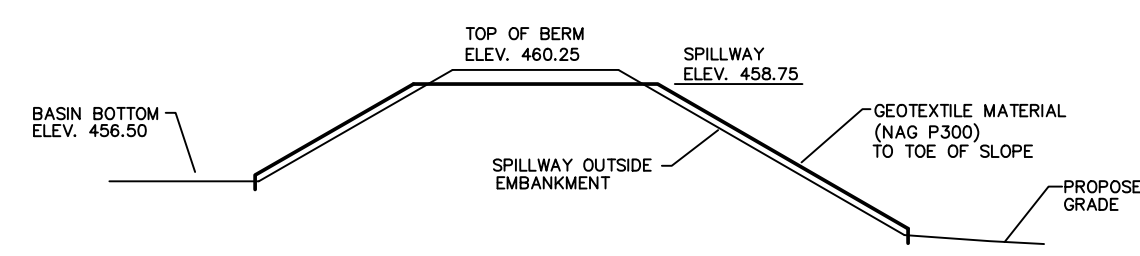
- EMBANKMENT COMPACTION NOTES**
- KEY TRENCH TO EXTEND 4 FEET INTO UNDISTURBED SUBSOIL.
 - IMPERVIOUS CORE AND KEY TRENCH WITH COMPACTED BACKFILL SCS SOILS TYPE CL-ML OR CL CLASSIFICATION OR APPROVED EQUAL.
 - THE CONTRACTOR SHALL PROVIDE SOIL TESTING OR SOIL VERIFICATION FOR CORE TRENCH BACKFILL TO THE TOWNSHIP ENGINEER PRIOR TO CONSTRUCTING EMBANKMENT.
 - ALL DETENTION AND RETENTION BASIN EMBANKMENTS SHALL BE PLACED IN EIGHT-INCH MAXIMUM LIFTS AND COMPACTED TO A MINIMUM NINETY-FIVE PERCENT DRY DENSITY. PRIOR TO PROCEEDING TO THE NEXT LIFT, COMPACTION SHALL BE CHECKED BY AN APPROVED SOILS ENGINEER WHO SHALL PROVIDE THE TOWNSHIP ENGINEER WITH A WRITTEN REPORT. COMPACTION TESTS SHALL BE PERFORMED USING THE MODIFIED PROCTOR METHOD IN ACCORDANCE WITH ASTM D-1577.
 - CORE TRENCH TOP ELEVATION SHALL BE SET AT OR ABOVE THE 25 YEAR WATER SURFACE ELEVATION.
 - THE CUT-OFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF THE EARTH FILL EMBANKMENT. THE MINIMUM DEPTH SHALL BE 4 FEET. THE CUT-OFF TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE ELEVATION PROVIDED ON THE DETAIL. THE BOTTOM WIDTH SHALL BE 4 FEET, BUT WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 3H:1V.



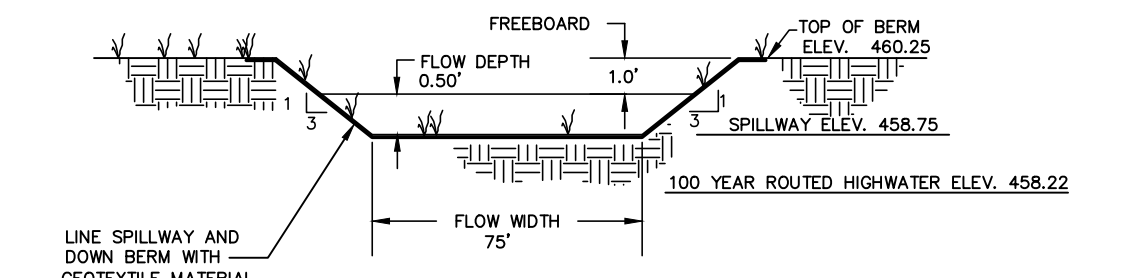
BMP #1 AND BMP #2 CONCRETE ANTI-SEEP COLLARS DETAIL NTS
NOTES:
1. TO BE FRAMED AND POURED AROUND BASIN OUTLET PIPE
2. CAST-IN-PLACE CONCRETE COLLAR THICKNESS TO BE 12"
3. ANTI-SEEP COLLARS SHOULD NOT BE LOCATED CLOSER THAN 2 FEET TO A PIPE JOINT



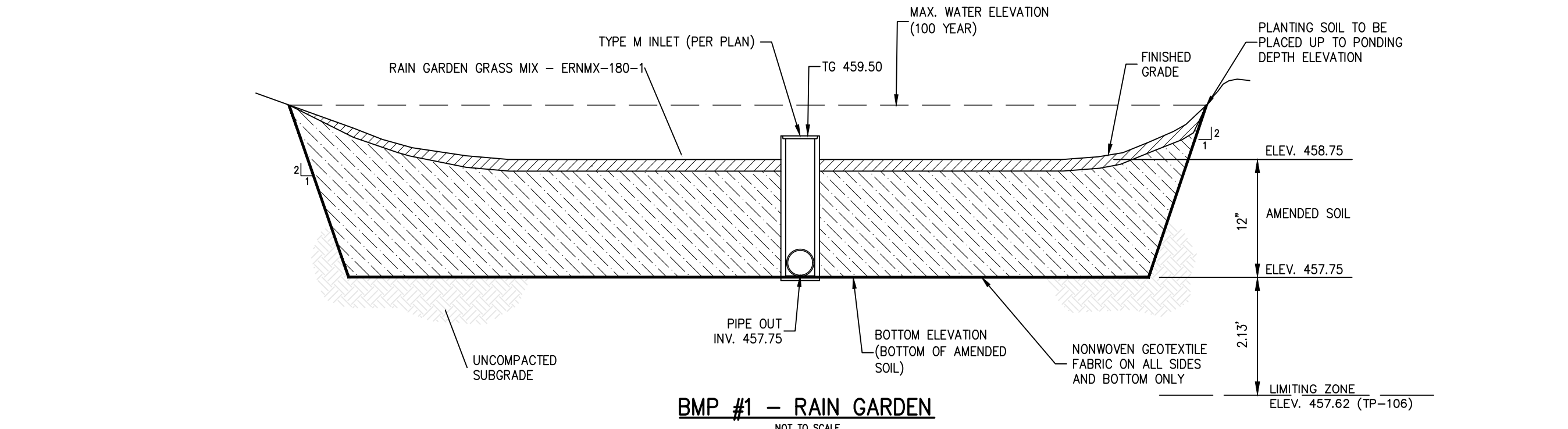
BMP #2 - INFILTRATION BASIN - BERM SECTION NTS



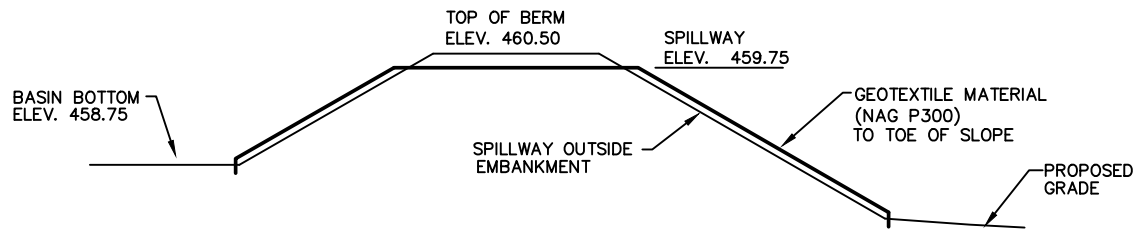
BMP #2 - INFILTRATION BASIN EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY NTS



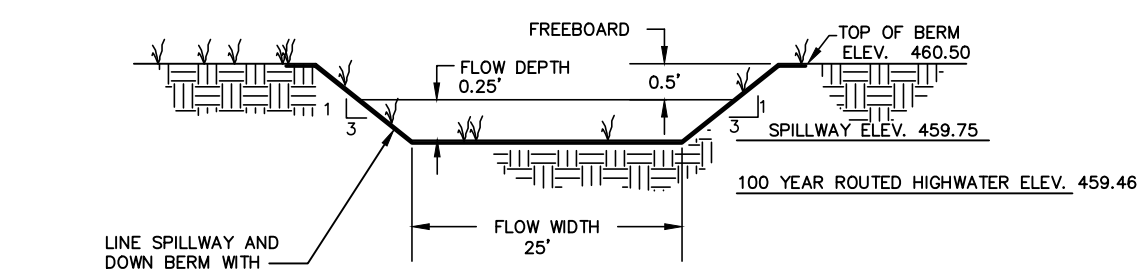
BMP #2 - INFILTRATION BASIN EMERGENCY SPILLWAY DETAIL NTS



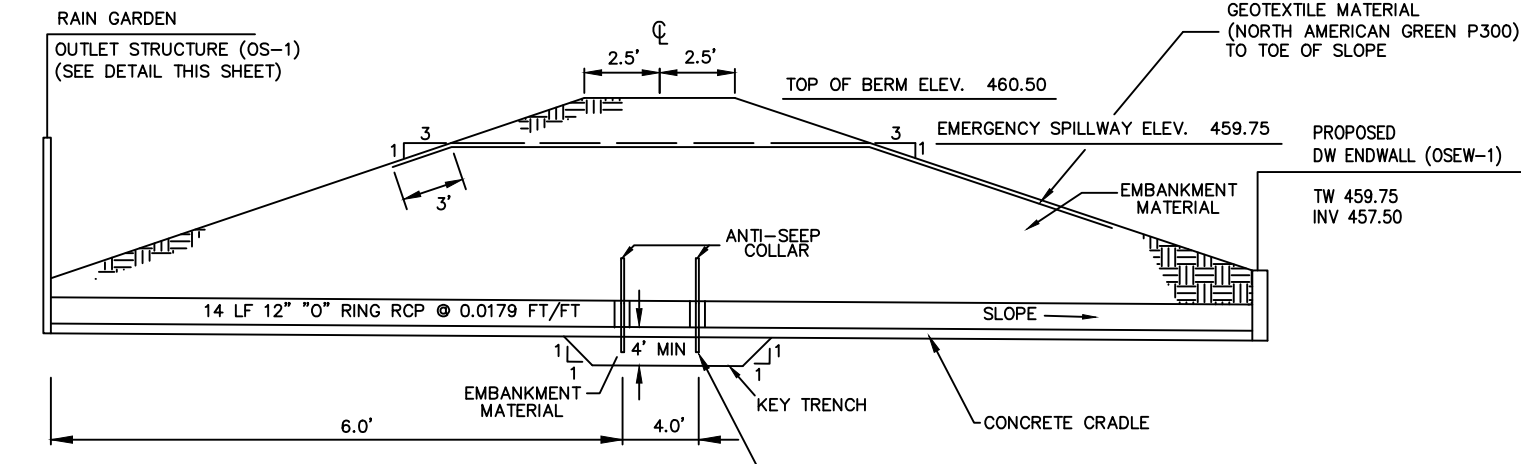
BMP #1 - RAIN GARDEN NOT TO SCALE



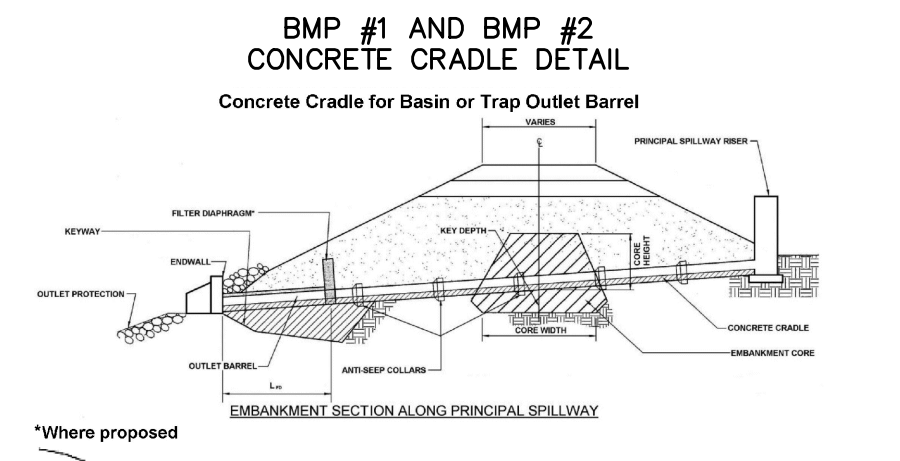
BMP #1 - RAIN GARDEN EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY NTS



BMP #1 - RAIN GARDEN EMERGENCY SPILLWAY DETAIL NTS



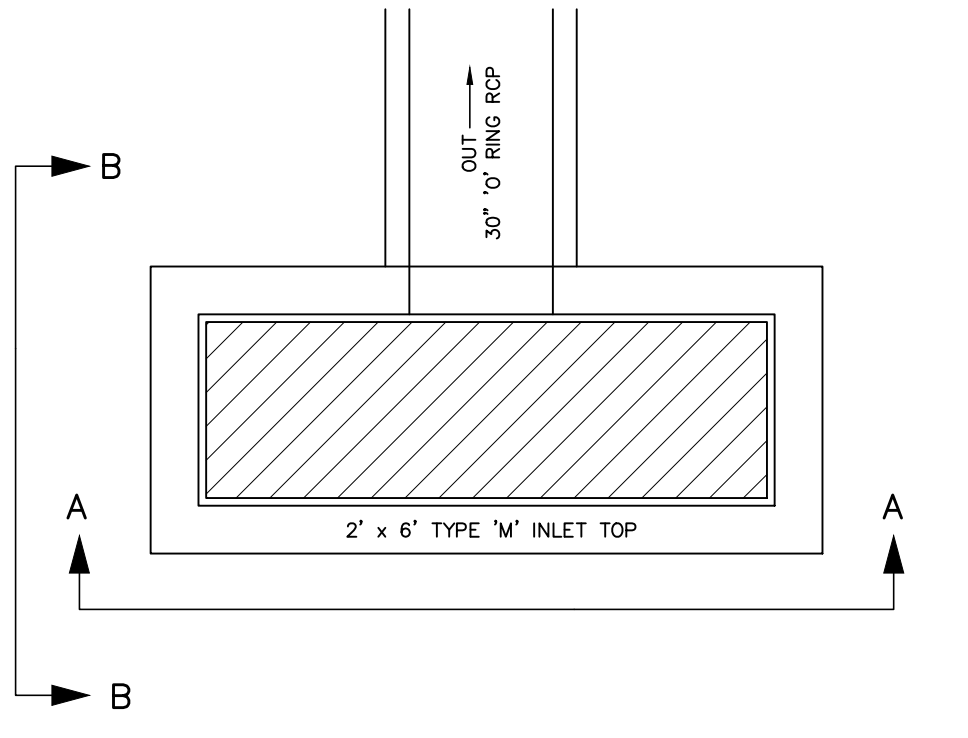
BMP #1 - RAIN GARDEN - BERM SECTION NTS



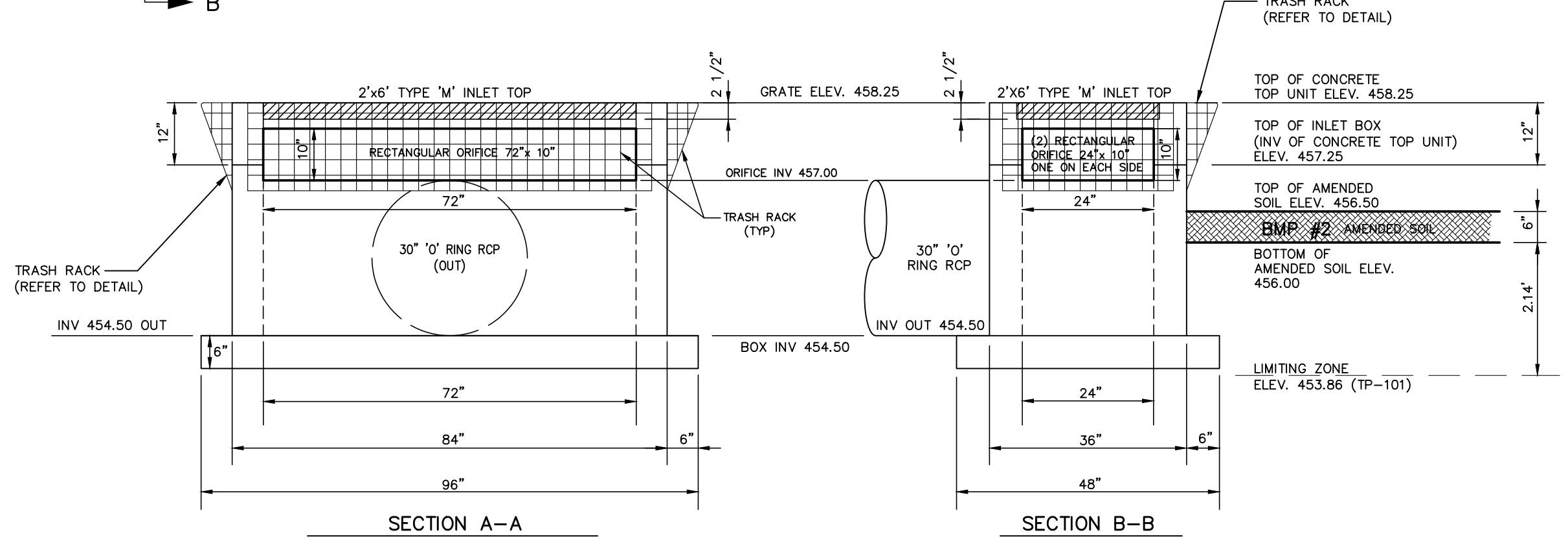
BMP #1 AND BMP #2 CONCRETE CRADLE DETAIL
NOT TO SCALE
CROSS SECTION AT OUTLET BARREL
Adapted from Westmoreland Conservation District
Note: A concrete cradle may be used in conjunction with anti-seep collars and/or filter diaphragm.
Anti-seep collar number, size and spacing shall be as shown elsewhere in plan.
Filter diaphragm location (L-) shall be as shown in Figure 7.8.

WATER SURFACE ELEVATION TABLE (ALL UNITS IN FEET)

BASIN NAME	2 YEAR STORM EVENT	100 YEAR STORM EVENT
BMP #1	458.85	459.46
BMP #2	457.05	458.22

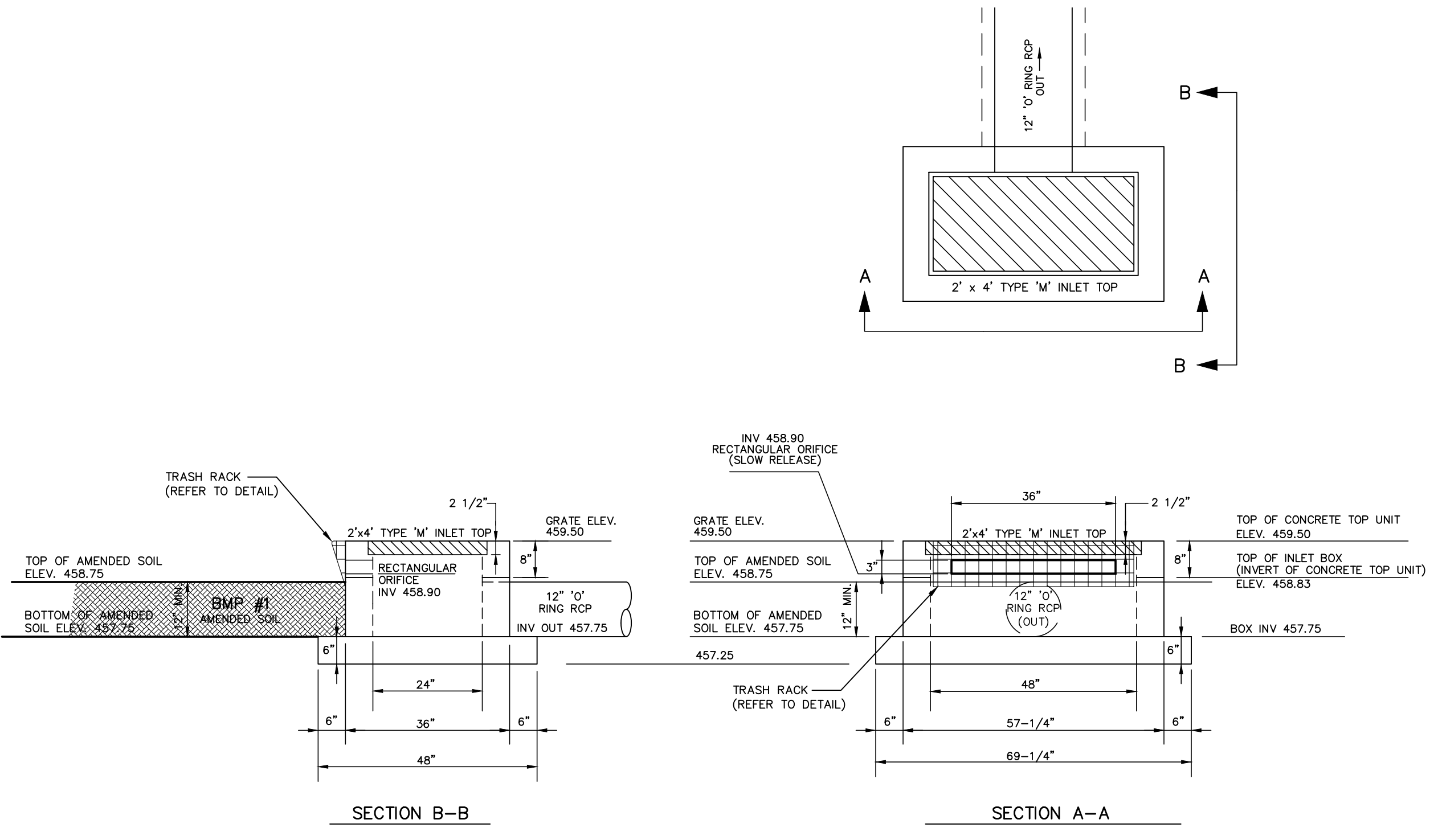


INFILTRATION BASIN (BMP #2), PERMANENT OUTLET STRUCTURE (OS-2) IS TO BE INSTALLED DURING CONSTRUCTION OF SEDIMENT BASIN. CONNECT SKIMMER TO INFILTRATION BASIN (BMP #2) OUTLET STRUCTURE (OS-2). CIRCULAR ORIFICE FOR THE SKIMMER TO BE PRECAST TO ACCEPT THE TEMPORARY 3 INCH PVC STUB PIPE. UPON CONVERSION OF SEDIMENT BASIN TO INFILTRATION BASIN (BMP #2) SEAL THE TEMPORARY 3 INCH CIRCULAR ORIFICE WITH CONCRETE PLUG.



BMP #2 - INFILTRATION BASIN MONOLITHIC OUTLET STRUCTURE (OS-2) PRECAST CONCRETE 2' x 6' INLET BOX w/GRATE DETAIL
SCALE: 1"=2"

NOTES:
1. BUTYL RESIN MASTIC SEAL SHALL BE PLACED WITH ALL JOINTS OF THE OUTLET STRUCTURE WHEN ASSEMBLED AND BETWEEN TOP OF INLET BOX AND INVERT OF CONCRETE TOP UNIT.



BMP #1 - RAIN GARDEN MONOLITHIC OUTLET STRUCTURE (OS-1) PRECAST CONCRETE 2' x 4' INLET BOX w/GRATE DETAIL
SCALE: 1"=2"

NOTES:
1. BUTYL RESIN MASTIC SEAL SHALL BE PLACED WITH ALL JOINTS OF THE OUTLET STRUCTURE WHEN ASSEMBLED AND BETWEEN TOP OF INLET BOX AND INVERT OF CONCRETE TOP UNIT.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

REVISIONS

DATE	DESCRIPTION

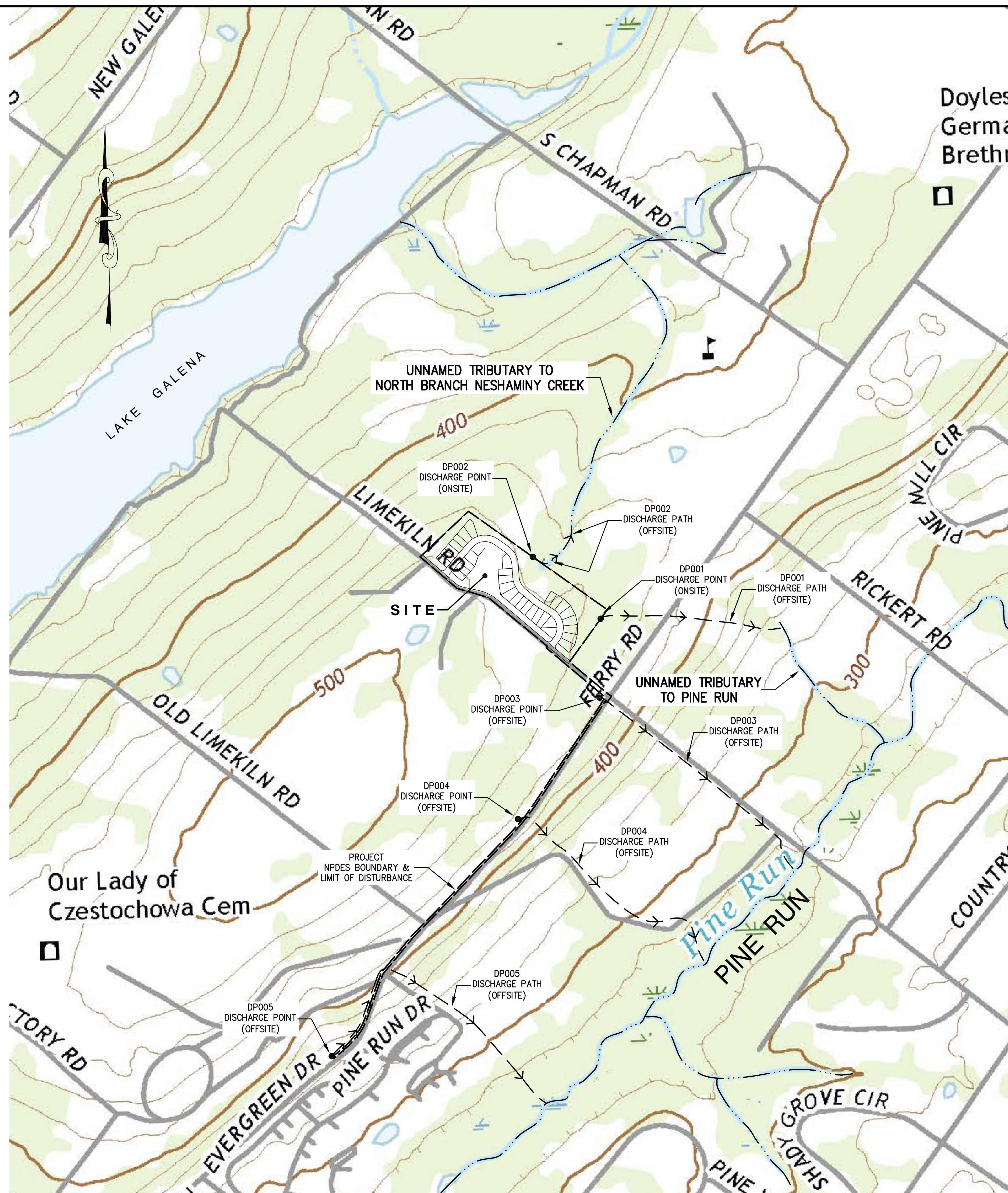
GALENA RESERVE MOBILE HOME PARK POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (7 OF 8)
PREPARED FOR

RHG PROPERTIES, LLC.
SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND

SCALE: AS SHOWN
SHEET No. 21 OF 49

URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com



ONSITE
 DP001 DISCHARGE POINT DRAINS TO UNNAMED TRIBUTARY TO PINE RUN
 DP002 DISCHARGE POINT DRAINS TO UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK

OFFSITE
 DP003, DP004 AND DP005 DISCHARGE POINT DRAINS TO PINE RUN

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183261500

REVISIONS	
DATE	DESCRIPTION

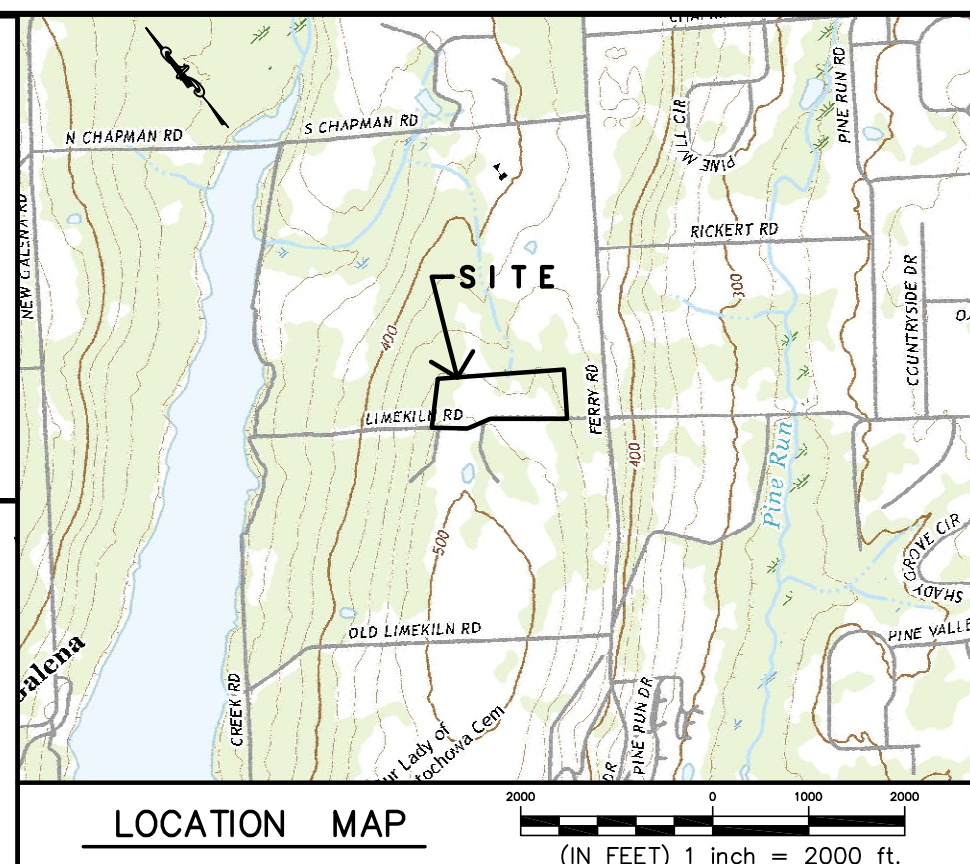
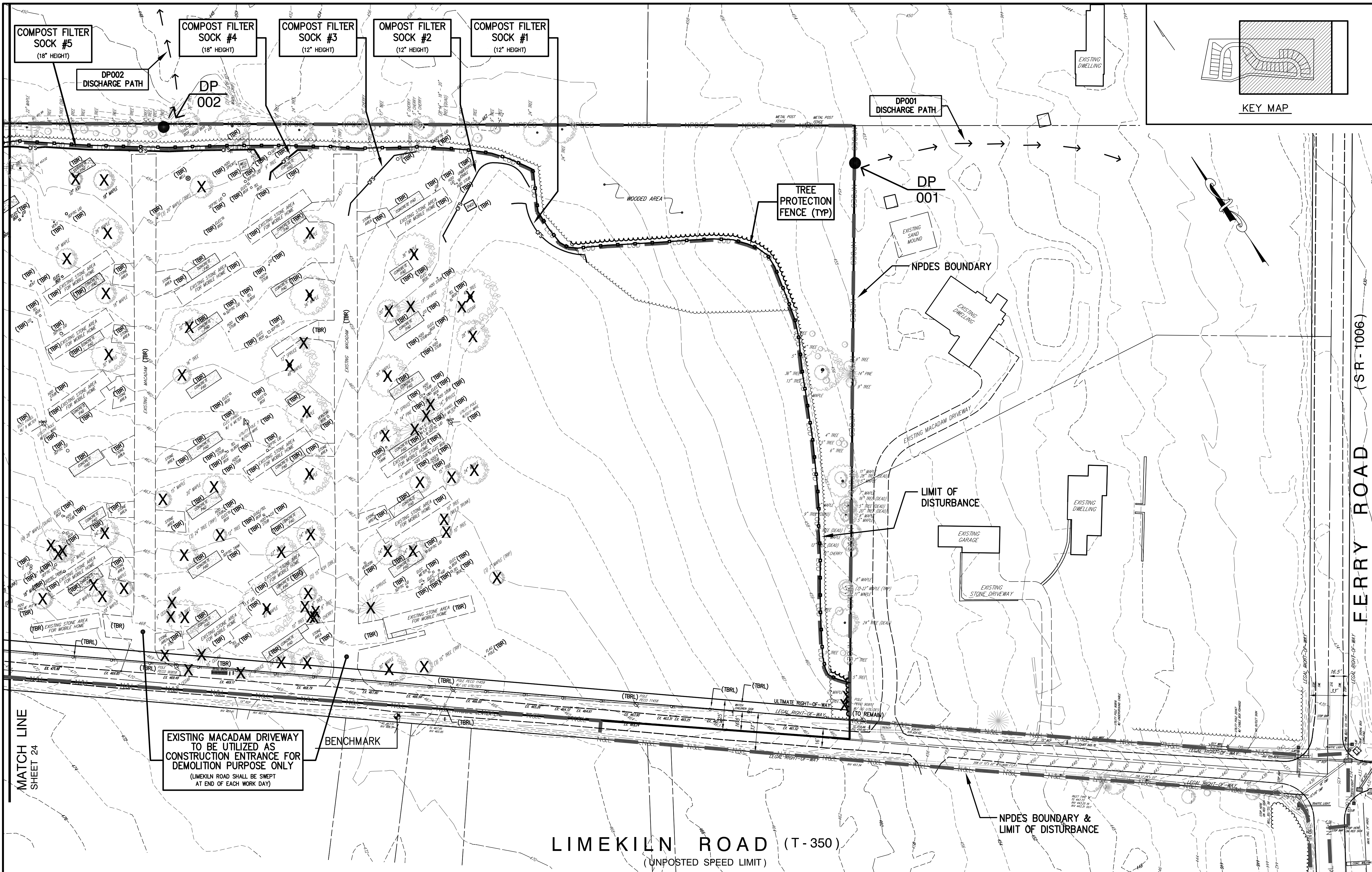
**GALENA RESERVE MOBILE HOME PARK
 POST CONSTRUCTION STORMWATER
 MANAGEMENT PLAN (8 OF 8)
 SITE DISCHARGE MAP**

PREPARED FOR
RHG PROPERTIES, LLC

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

MARCH 17, 2022
 PROJECT No. 18075
 FILE: 18075-022-PCSWM





- GENERAL NOTES**
- THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE 'EROSION CONTROL REPORT' PREPARED FOR THE SITE.
 - REMOVAL AND DISPOSAL OF MATERIAL REMOVED FROM THE SILT SOCKS AND OTHER EROSION CONTROL MEASURES (NON-CONTAMINATED SOIL SHALL BE GRADED INTO THE SITE) (CONTAMINATED SOIL SHALL BE REMOVED/DISPOSED TO A LICENSED DISPOSAL FACILITY FOR CONTAINING WASTE PRODUCTS).
 - FOR DETAILS AND INFORMATION REGARDING EROSION CONTROL, REFER TO THE 'EROSION CONTROL DETAIL PLAN' SHEETS 30, 31, 32, 33 & 34.
 - IN THE EVENT THAT FILL IS BROUGHT TO THE SITE, THE OPERATOR WILL BE RESPONSIBLE TO PERFORM ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT ALL IMPORTED FILL MEETS THE DEFINITION OF CLEAN FILL AS DESCRIBED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - CONSTRUCTION WASTE INCLUDES MILLINGS, CONCRETE, BLOCK, WOOD, LANDSCAPING, SEDIMENT / SILT, ETC.
 - THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 2601. ET SEQ. 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
 - THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARING A PPC PLAN (PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN) IN COMPLIANCE WITH PADEP REGULATIONS, AND HAVING THE APPROPRIATE PROVISIONS AVAILABLE ON SITE AT ALL TIMES.
 - TREE PROTECTION FENCE USED TO PROTECT WOODED AREAS, WETLAND AREAS AND INFILTRATION BMP'S SHALL BE REMOVED FOLLOWING SITE CONSTRUCTION.
 - ALL DIVERSION BERMS, CHANNELS AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.
 - BONAR "ENKAMAT 7010" SHALL BE USED ON ALL SLOPES THAT ARE 3:1 OR STEEPER. ALL PROPOSED SWALES TO BE LINED WITH NORTH AMERICAN GREEN "SC 150 BN". EMERGENCY SPILLWAYS SHALL BE LINED WITH NORTH AMERICAN GREEN "P300".

RECEIVING WATER: UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK & PINE RUN
 RECEIVING WATERSHED: NESHAMINY CREEK
 CHAPTER 93 CLASSIFICATION:
 NORTH BRANCH NESHAMINY CREEK: WARM WATER FISHERY (WWF) MIGRATORY FISHERY (MF)
 PINE RUN: TROUT STOCK FISHERY (TSF) MIGRATORY FISHERY (MF)

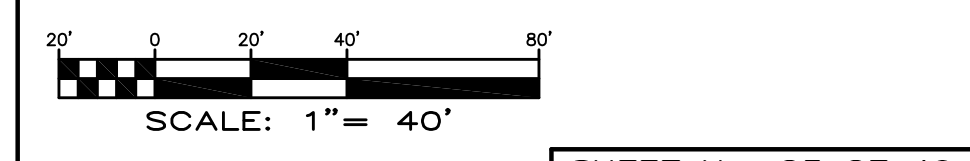
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REVISIONS	
DATE	DESCRIPTION

**GALENA RESERVE MOBILE HOME PARK
 DEMOLITION with
 EROSION CONTROL PLAN (1 OF 2)**
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND XREF ECP



LEGEND

EXISTING CONTOUR		34.6	LIMIT OF DISTURBANCE		LOD	LOD
EXISTING SANITARY SEWER			PROJECT/NPDES BOUNDARY		NPDES	
EXISTING STORM SEWER			PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE		N&L	N&L
EXISTING WATER LINE		W	COMPOST FILTER SOCK			
EXISTING GAS LINE		G	EXISTING TREES STANDING ALONE (TO BE REMOVED)		(TBR)	
EXISTING OVERHEAD WIRES			EXISTING TREES TO BE RELOCATED		(TBL)	
EXISTING EDGE OF MACADAM						
EXISTING EDGE OF TREES						
EXISTING TREE						
WETLANDS						
PROPOSED EDGE OF TREES						
PROPOSED TREE PROTECTION FENCE						

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
 ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
 OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
 (FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
 OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
 (FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

ALL EXISTING STONE AREA, MACADAM, CONCRETE PAD, UTILITY POLES, WELL, SEPTIC TANKS, ELECTRIC BOX, TELEPHONE BOX, ELECTRIC PANEL, UTILITY POLE WITH GUY WIRES ASSOCIATED WITH MOBILE HOMES OUTSIDE OF LEGAL RIGHT-OF-WAY BUT WITHIN PROPERTY BOUNDARY IS TO BE REMOVED. REFER TO SHEET 7 AND 8 FOR ALL RELOCATED UNDERGROUND AND ABOVEGROUND UTILITIES, POLES AND SIGNS LOCATION ALONG LIMEKILN ROAD.

MATCH LINE
 SHEET 24

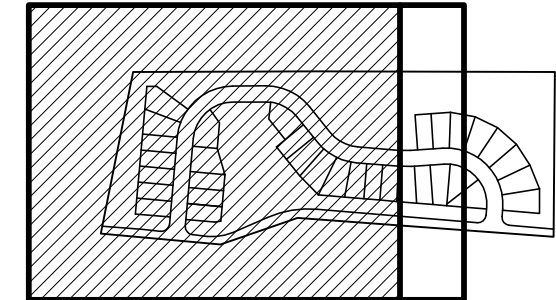
FERRY ROAD (SR-1006)

LIMEKILN ROAD (T-350)
 (UNPOSTED SPEED LIMIT)



DEMOLITION NOTES

- THIS PLAN IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY TO IDENTIFY THE LIMITS OF DEMOLITION AND SHALL NOT BE CONSIDERED ALL INCLUSIVE. ADDITIONAL ITEMS MAY BE FOUND THAT SHOULD BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR ACTUAL LIMITS AND EXTENTS OF DEMOLITION. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL BUILDING DEMOLITION AND COORDINATION.
- ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, PENNSYLVANIA STATE AND TOWNSHIP REGULATIONS.
- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
- URWILER AND WALTER, INC. HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
- THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNING REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH URWILER AND WALTER, INC., IN WRITING, AND RESPONDED TO BY URWILER AND WALTER, INC., IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY.
- ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
- PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR/OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.
- PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
 - ENSURE COPIES OF ALL PERMITS AND APPROVALS ARE ON SITE FOR REVIEW.
 - THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO SITE DISTURBANCE.
 - ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE, SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
 - PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
 - FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENT AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
 - COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
 - A COMPLETE INSPECTION FOR CONTAMINANTS, BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS SOLELY THE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT.
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE.
- IN THE ABSENCE OF SPECIFIC REQUIREMENTS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S GEOTECHNICAL ENGINEER.
- EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL," AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY WHERE REQUIRED.
- DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINES, WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
- USE DUST CONTROL MEASURES TO LIMIT THE AMOUNT OF AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR TO WITHIN FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
- THE CONTRACTOR IS RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
- THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
- THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
- LANDSCAPING TO REMAIN IS TO BE PROTECTED DURING ALL SITE WORK. REFER TO LANDSCAPING PLAN.



KEY MAP

RECEIVING WATER: UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK & PINE RUN	
RECEIVING WATERSHED: NESHAMINY CREEK	
CHAPTER 93 CLASSIFICATION:	
NORTH BRANCH NESHAMINY CREEK: WARM WATER FISHERY (WWF)	
MIGRATORY FISHERY (MF)	
PINE RUN:	
TROUT STOCK FISHERY (TSF)	
MIGRATORY FISHERY (MF)	

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

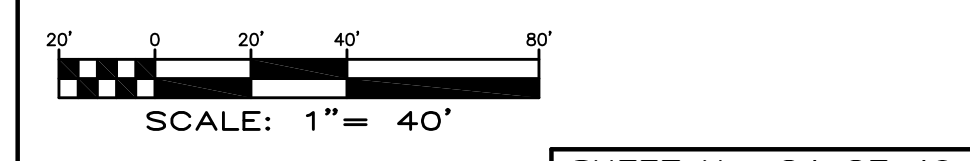
REVISIONS	
DATE	DESCRIPTION

**GALENA RESERVE MOBILE HOME PARK
DEMOLITION with
EROSION CONTROL PLAN (2 OF 2)**

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP

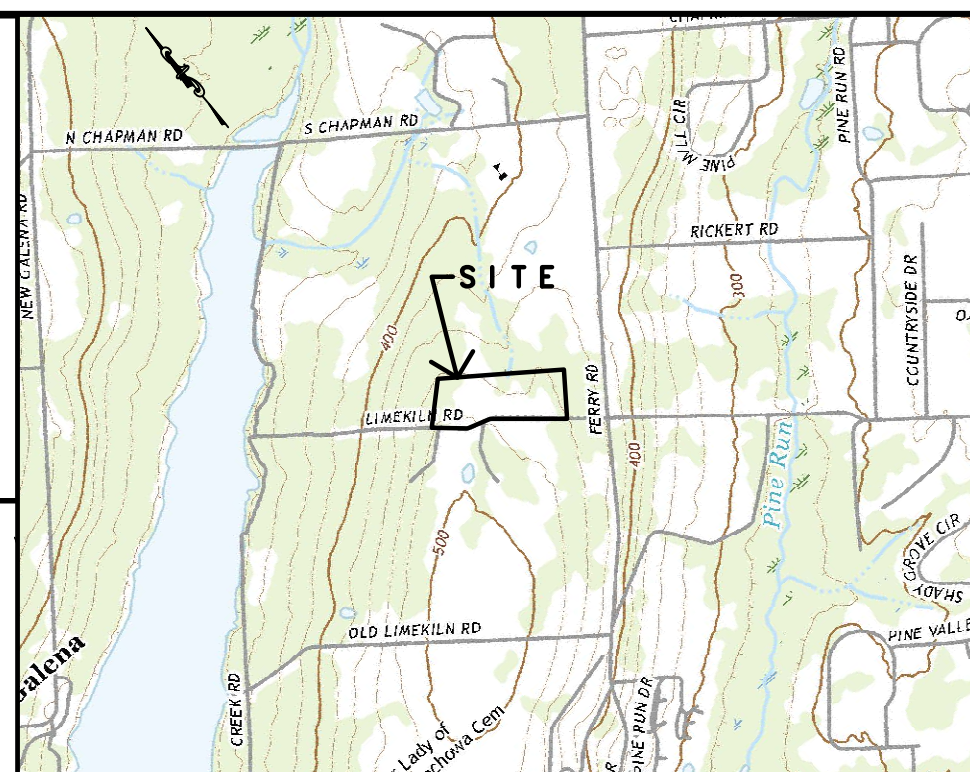
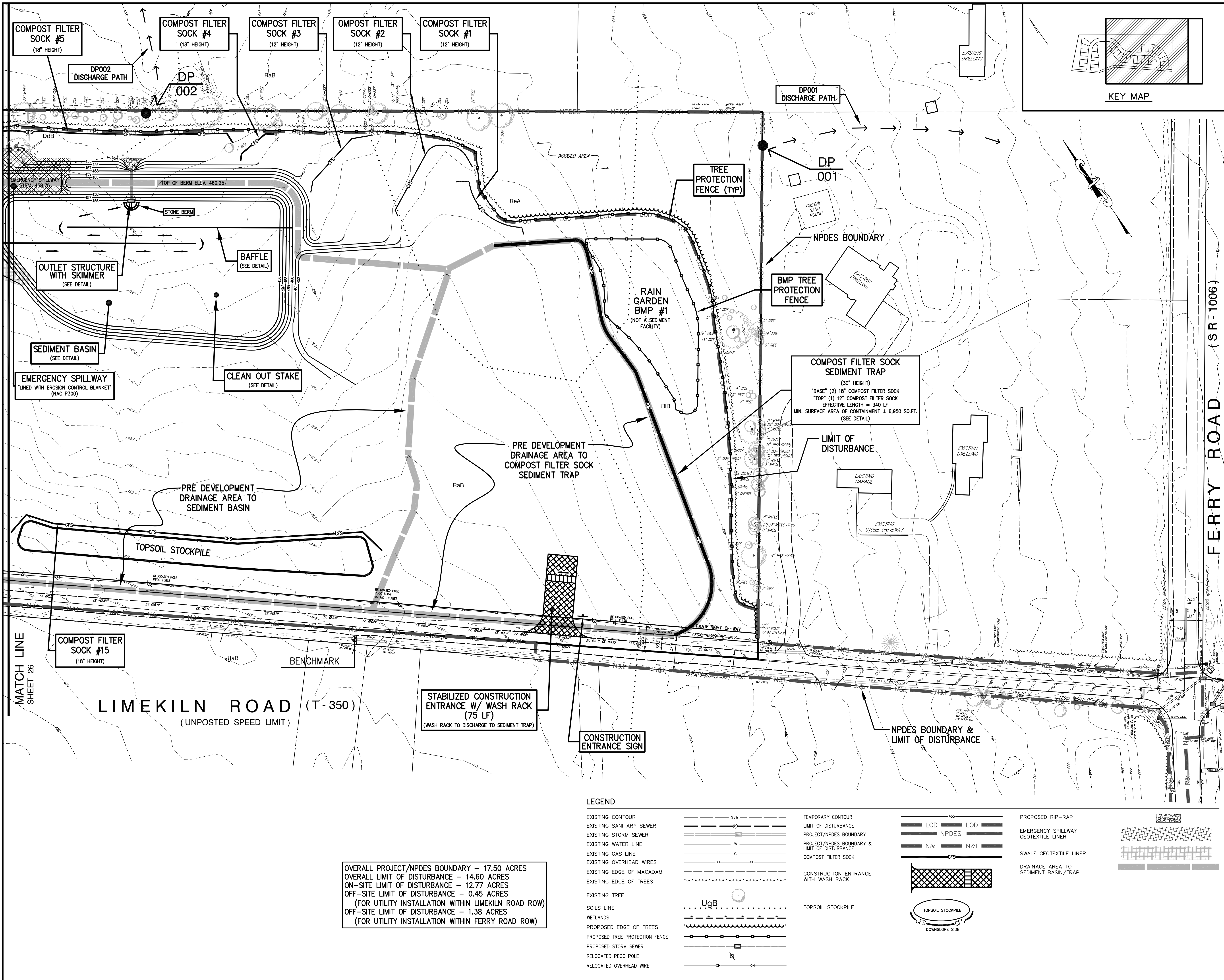


LEGEND

EXISTING CONTOUR		EXISTING SANITARY SEWER		EXISTING STORM SEWER		EXISTING WATER LINE		EXISTING GAS LINE		EXISTING OVERHEAD WIRES		EXISTING EDGE OF MACADAM		EXISTING EDGE OF TREES		EXISTING TREE		WETLANDS		PROPOSED EDGE OF TREES		PROPOSED TREE PROTECTION FENCE	
LIMIT OF DISTURBANCE		PROJECT/NPDES BOUNDARY		PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE		COMPOST FILTER SOCK		EXISTING TREES STANDING ALONE (TO BE REMOVED)		TO BE REMOVED		TO BE RELOCATED											

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
(FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
(FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

ALL EXISTING STONE AREA, MACADAM, CONCRETE PAD, UTILITY POLES, WELL, SEPTIC TANKS, ELECTRIC BOX, TELEPHONE BOX, ELECTRIC PANEL, UTILITY POLE WITH GUY WIRES ASSOCIATED WITH MOBILE HOMES OUTSIDE OF LEGAL RIGHT-OF-WAY BUT WITHIN PROPERTY BOUNDARY IS TO BE REMOVED. REFER TO SHEET 7 AND 8 FOR ALL RELOCATED UNDERGROUND AND ABOVEGROUND UTILITIES, POLES AND SIGNS LOCATION ALONG LIMEKILN ROAD.



LOCATION MAP
 SCALE: (IN FEET) 1 inch = 2000 ft.

- GENERAL NOTES**
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SOIL DATA:

SOILS DATA OBTAINED FROM USDA-NATURAL RESOURCES CONSERVATION SERVICES-WEBSOIL SURVEY-NATURAL COOPERATIVE SOIL SURVEY.

AmA	AMWELL SILT LOAM, 0 TO 3 PERCENT SLOPES
AmB	AMWELL SILT LOAM, 3 TO 8 PERCENT SLOPES
DdB	DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
RoB	RARITAN SILT LOAM, 3 TO 8 PERCENT SLOPES
ReA	READINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES
RiB	REAVILLE CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES

RECEIVING WATER: UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK & PINE RUN
RECEIVING WATERSHED: NESHAMINY CREEK
CHAPTER 93 CLASSIFICATION: NORTH BRANCH NESHAMINY CREEK; WARM WATER FISHERY (WWF) MIGRATORY FISHERY (MF)
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REVISIONS

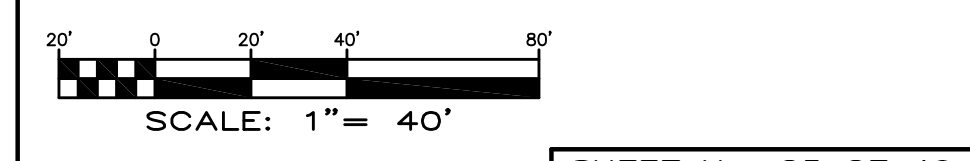
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
TEMPORARY GRADING FOR SEDIMENT FACILITY
CONSTRUCTION WITH
EROSION CONTROL PLAN (1 OF 2)
 PREPARED FOR

RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
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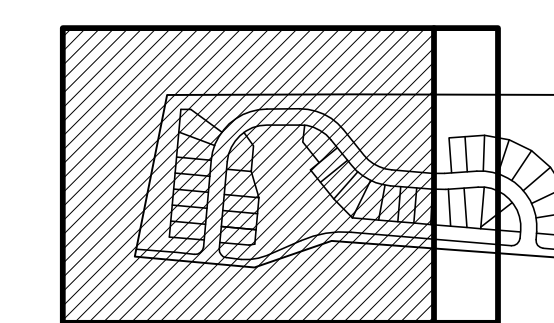
OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
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 (FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
 (FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

LEGEND

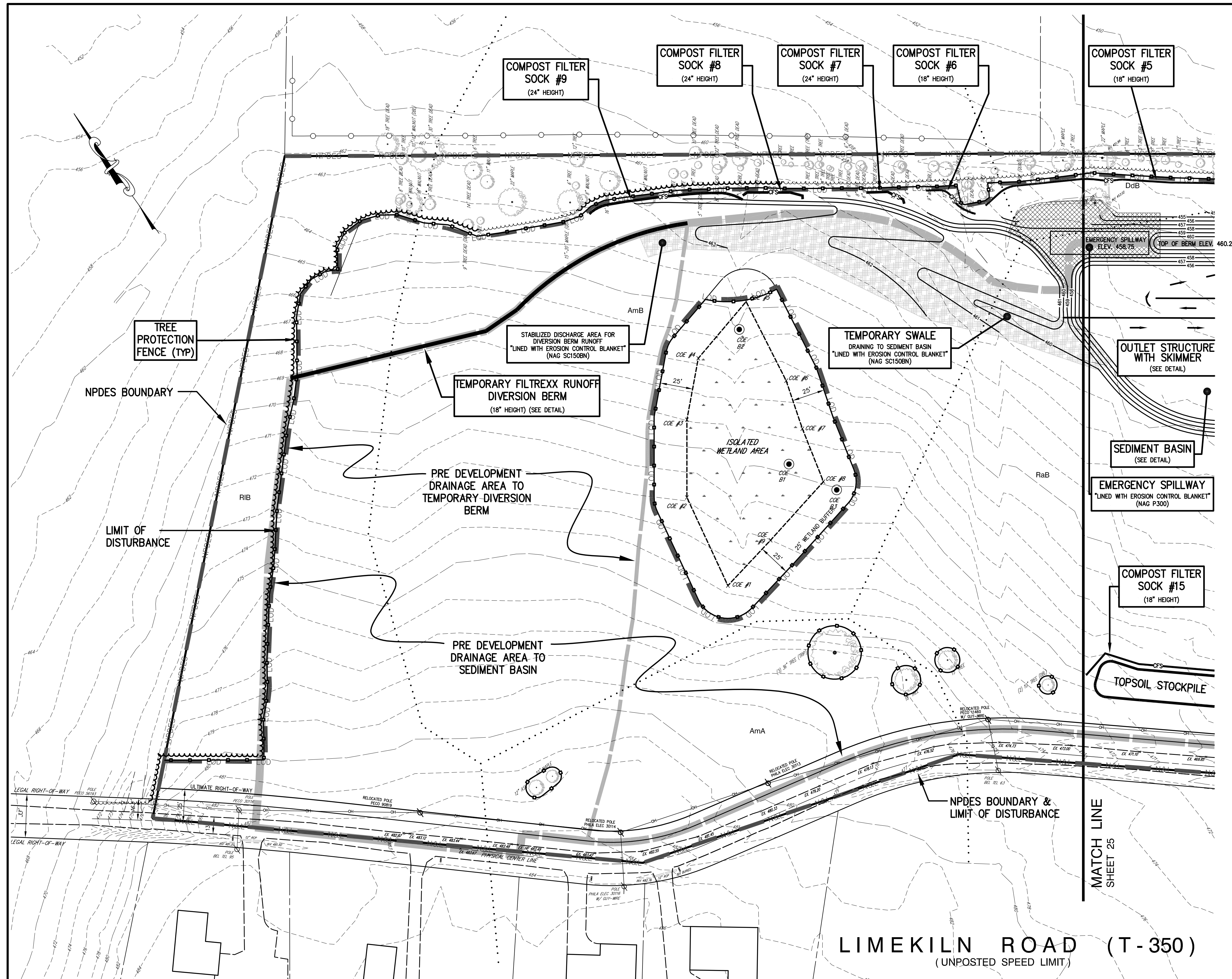
EXISTING CONTOUR	EXISTING SANITARY SEWER	EXISTING STORM SEWER	EXISTING WATER LINE	EXISTING GAS LINE	EXISTING OVERHEAD WIRES	EXISTING EDGE OF MACADAM	EXISTING EDGE OF TREES	EXISTING TREE	SOILS LINE	WETLANDS	PROPOSED EDGE OF TREES	PROPOSED TREE PROTECTION FENCE	PROPOSED STORM SEWER	RELOCATED PECO POLE	RELOCATED OVERHEAD WIRE
TEMPORARY CONTOUR	LIMIT OF DISTURBANCE	PROJECT/NPDES BOUNDARY	PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE	COMPOST FILTER SOCK	CONSTRUCTION ENTRANCE WITH WASH RACK	TOPSOIL STOCKPILE									

MATCH LINE
 SHEET 26

FERRY ROAD (SR-1006)



KEY MAP



LIMEKILN ROAD (T-350)
(UNPOSTED SPEED LIMIT)

MATCH LINE
SHEET 25

LEGEND

- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRES
- EXISTING EDGE OF MACADAM
- EXISTING EDGE OF TREES
- EXISTING TREE
- SOILS LINE
- WETLANDS
- PROPOSED EDGE OF TREES
- PROPOSED TREE PROTECTION FENCE
- PROPOSED STORM SEWER
- RELOCATED PECCO POLE
- RELOCATED OVERHEAD WIRE
- TEMPORARY CONTOUR
- LIMIT OF DISTURBANCE
- PROJECT/NPDES BOUNDARY
- PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- CONSTRUCTION ENTRANCE WITH WASH RACK
- TOPSOIL STOCKPILE
- PROPOSED RIP-RAP
- EMERGENCY SPILLWAY GEOTEXTILE LINER
- SWALE GEOTEXTILE LINER
- DRAINAGE AREA TO SEDIMENT BASIN/TRAP

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
 ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
 OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
 (FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
 OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
 (FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

RECEIVING WATER: UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK & PINE RUN
 RECEIVING WATERSHED: NESHAMINY CREEK
 CHAPTER 93 CLASSIFICATION:
 NORTH BRANCH NESHAMINY CREEK: WARM WATER FISHERY (WWF) MIGRATORY FISHERY (MF)
 PINE RUN: TROUT STOCK FISHERY (TSF) MIGRATORY FISHERY (MF)

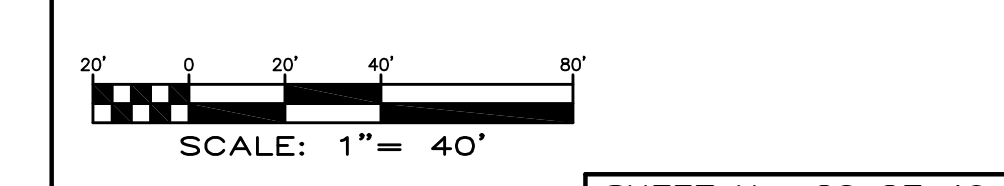
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REVISIONS	
DATE	DESCRIPTION

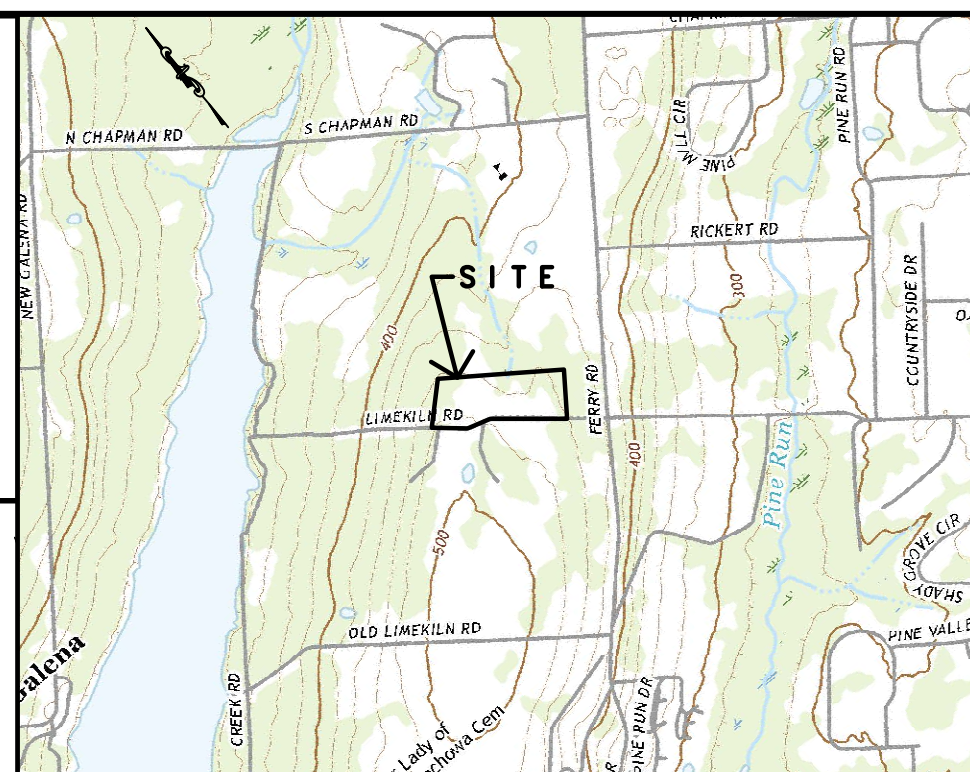
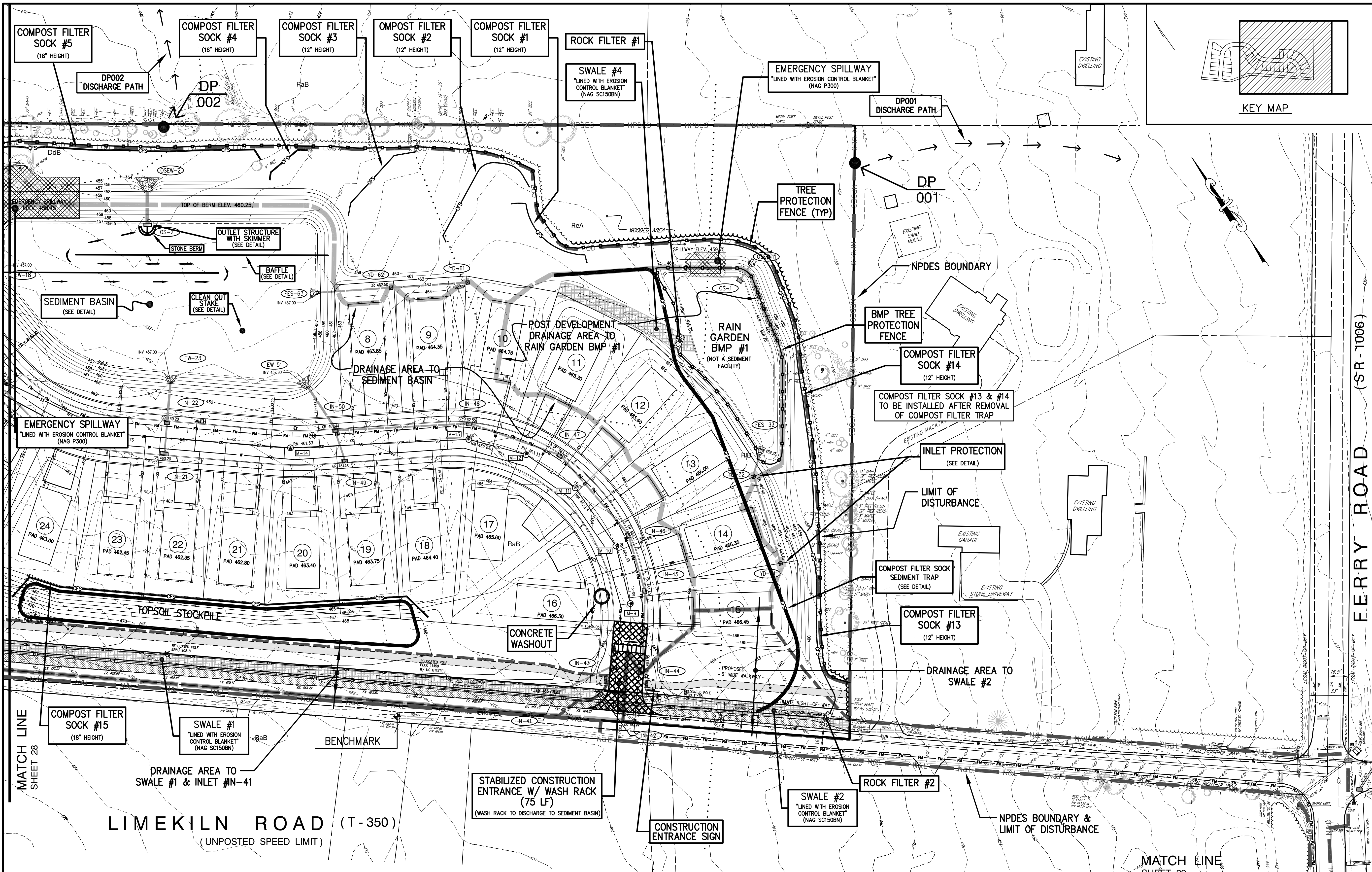
GALENA RESERVE MOBILE HOME PARK
 TEMPORARY GRADING FOR SEDIMENT FACILITY
 CONSTRUCTION with
 EROSION CONTROL PLAN (2 OF 2)
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND XREF ECP



SHEET No. 26 OF 49



LOCATION MAP
SCALE: 1" = 2000 FT.

- GENERAL NOTES**
- THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE 'EROSION CONTROL REPORT' PREPARED FOR THE SITE.
 - REMOVAL AND DISPOSAL OF MATERIAL REMOVED FROM THE SILT SOCKS AND OTHER EROSION CONTROL MEASURES (NON-CONTAMINATED SOIL SHALL BE GRADED INTO THE SITE) (CONTAMINATED SOIL SHALL BE REMOVED/DISPOSED TO A LICENSED DISPOSAL FACILITY FOR CONTAINING WASTE PRODUCTS).
 - FOR DETAILS AND INFORMATION REGARDING EROSION CONTROL, REFER TO THE 'EROSION CONTROL DETAIL PLAN' SHEETS 30, 31, 32, 33 & 34.
 - IN THE EVENT THAT FILL IS BROUGHT TO THE SITE, THE OPERATOR WILL BE RESPONSIBLE TO PERFORM ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT ALL IMPORTED FILL MEETS THE DEFINITION OF CLEAN FILL AS DESCRIBED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 - CONSTRUCTION WASTE INCLUDES MILLINGS, CONCRETE, BLOCK, WOOD, LANDSCAPING, SEDIMENT / SILT, ETC.
 - THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 2601 ET SEQ. 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
 - THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARING A PPC PLAN (PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN) IN COMPLIANCE WITH PA DEP REGULATIONS, AND HAVING THE APPROPRIATE PROVISIONS AVAILABLE ON SITE AT ALL TIMES.
 - TREE PROTECTION FENCE USED TO PROTECT WOODED AREAS, WETLAND AREAS AND INFILTRATION BMP'S SHALL BE REMOVED FOLLOWING SITE CONSTRUCTION.
 - ALL DIVERSION BERMS, CHANNELS AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.
 - BONAR "ENKAMAT 7010" SHALL BE USED ON ALL SLOPES THAT ARE 3:1 OR STEEPER. ALL PROPOSED SWALES TO BE LINED WITH NORTH AMERICAN GREEN "SC 150 BN". EMERGENCY SPILLWAYS SHALL BE LINED WITH NORTH AMERICAN GREEN "P300".

SOIL DATA:
SOILS DATA OBTAINED FROM USDA-NATURAL RESOURCES CONSERVATION SERVICES-WEBSOIL SURVEY-NATURAL COOPERATIVE SOIL SURVEY

AmA AMWELL SILT LOAM, 0 TO 3 PERCENT SLOPES
AmB AMWELL SILT LOAM, 3 TO 8 PERCENT SLOPES
DdB DOYLESTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES
RdB RARITAN SILT LOAM, 3 TO 8 PERCENT SLOPES
ReA READINGTON SILT LOAM, 0 TO 3 PERCENT SLOPES
RiB REAVILLE CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES

RECEIVING WATER: UNNAMED TRIBUTARY TO NORTH BRANCH NESHAMINY CREEK & PINE RUN
RECEIVING WATERSHED: NESHAMINY CREEK
CHAPTER 93 CLASSIFICATION:
NORTH BRANCH NESHAMINY CREEK: WARM WATER FISHERY (WWF) MIGRATORY FISHERY (MF)
PINE RUN: TROUT STOCK FISHERY (TSF) MIGRATORY FISHERY (MF)

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

REVISIONS

DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK LAND DEVELOPMENT with EROSION CONTROL PLAN (1 OF 3)
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP

SCALE: 1" = 40'
SHEET No. 27 OF 49

URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE: 215-234-4562 FAX: 215-234-0889 www.urwilerwalter.com

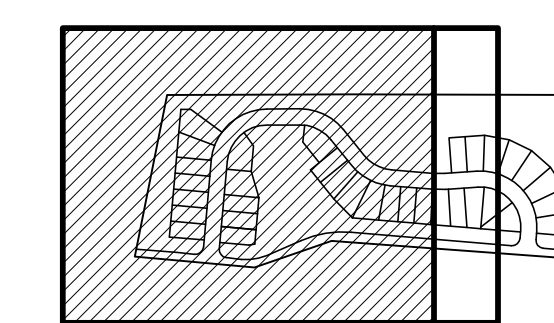
INLET #43 & #44 WITHIN THE INTERNAL ROAD WILL BE INSTALLED WITH ROLLED EARTHEN BERM DOWNSLOPE OF THE INLET UNTIL THE INTERNAL ROAD IS STONED TO ENSURE RUNOFF WILL ENTER INLET PRIOR TO SURROUNDING AREA REACHES FINAL GRADE.

OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
(FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
(FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

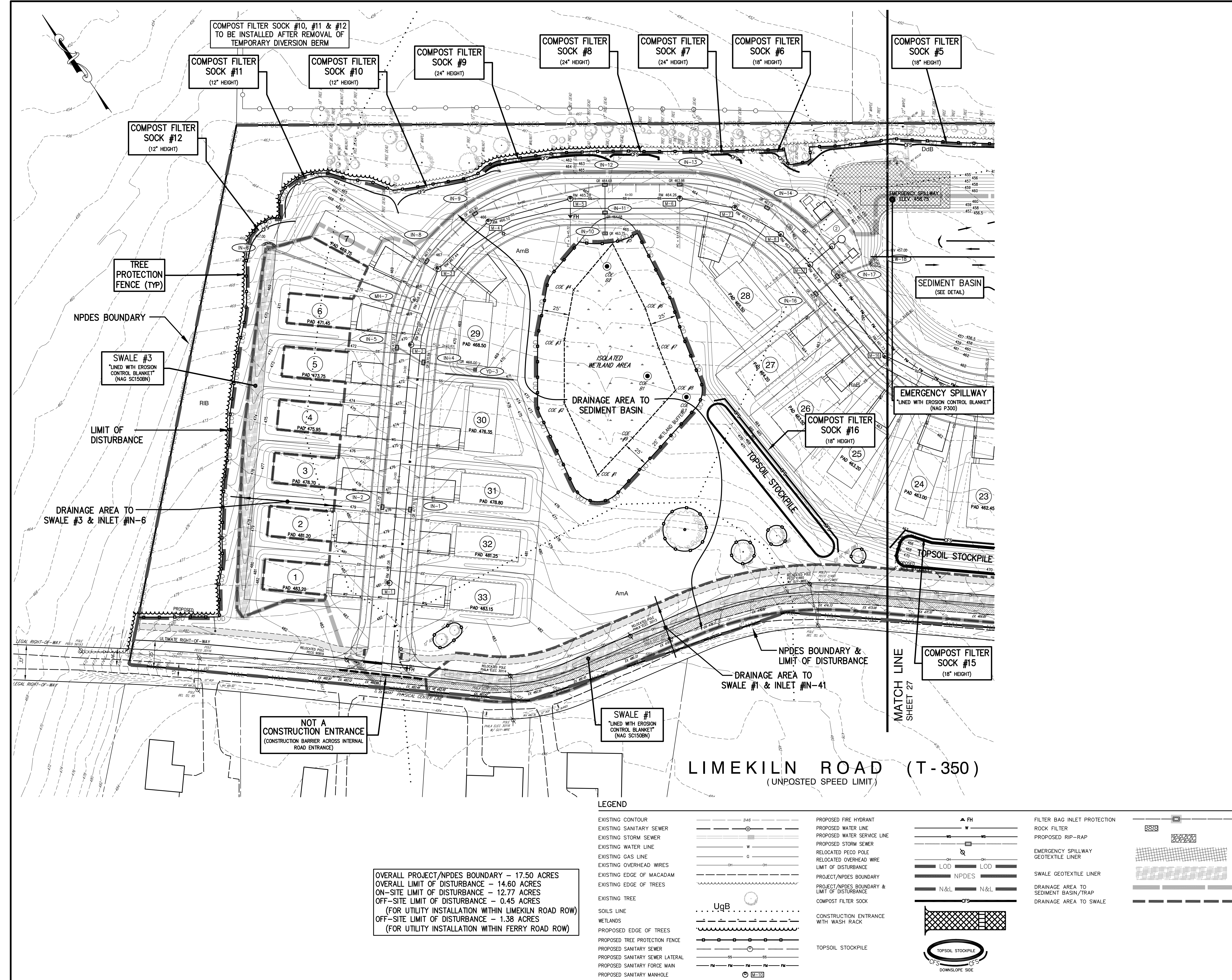
- LEGEND**
- EXISTING CONTOUR
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - EXISTING WATER LINE
 - EXISTING GAS LINE
 - EXISTING OVERHEAD WIRES
 - EXISTING EDGE OF MACADAM
 - EXISTING EDGE OF TREES
 - EXISTING TREE
 - SOILS LINE
 - WETLANDS
 - PROPOSED EDGE OF TREES
 - PROPOSED TREE PROTECTION FENCE
 - PROPOSED SANITARY SEWER
 - PROPOSED SANITARY SEWER LATERAL
 - PROPOSED SANITARY FORCE MAIN
 - PROPOSED SANITARY MANHOLE
 - PROPOSED FIRE HYDRANT
 - PROPOSED WATER LINE
 - PROPOSED WATER SERVICE LINE
 - PROPOSED STORM SEWER
 - RELOCATED PECO POLE
 - RELOCATED OVERHEAD WIRE
 - LIMIT OF DISTURBANCE
 - PROJECT/NPDES BOUNDARY
 - PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE
 - COMPOST FILTER SOCK
 - CONSTRUCTION ENTRANCE WITH WASH RACK
 - TOPSOIL STOCKPILE
 - FILTER BAG INLET PROTECTION
 - ROCK FILTER
 - PROPOSED RIP-RAP
 - EMERGENCY SPILLWAY
 - GEOTEXTILE LINER
 - SWALE GEOTEXTILE LINER
 - DRAINAGE AREA TO SEDIMENT BASIN/TRAP
 - DRAINAGE AREA TO SWALE

MATCH LINE SHEET 28

MATCH LINE SHEET 29



KEY MAP



RECEIVING WATER: UNNAMED TRIBUTARY TO NORTH BRANCH
 NESHAMINY CREEK & PINE RUN
 RECEIVING WATERSHED: NESHAMINY CREEK
 CHAPTER 93 CLASSIFICATION:
 NORTH BRANCH NESHAMINY CREEK: WARM WATER FISHERY (WWF)
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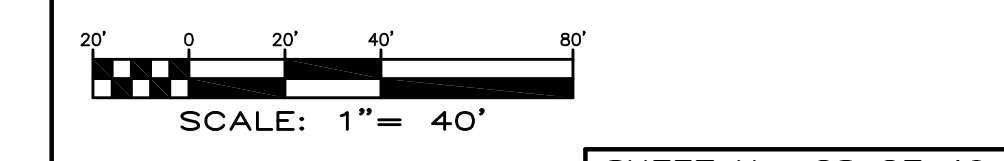
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REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
LAND DEVELOPMENT with
EROSION CONTROL PLAN (2 OF 3)
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

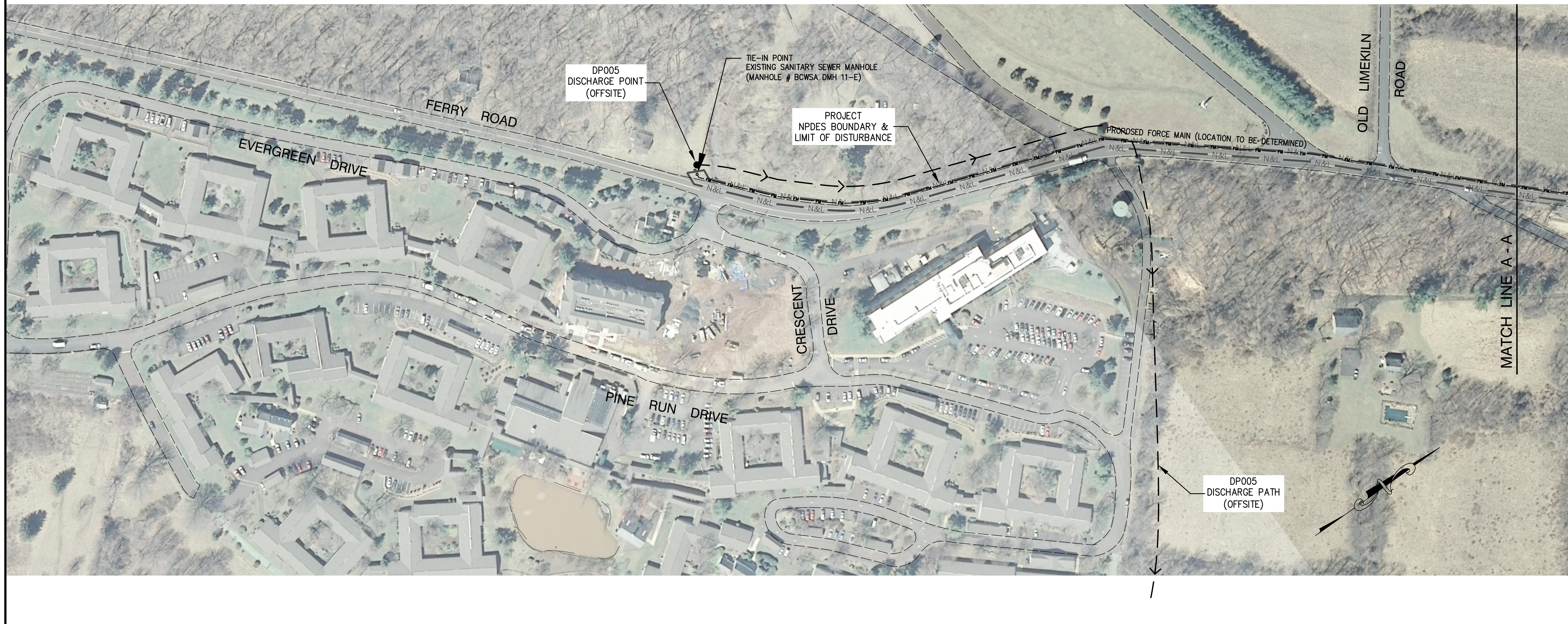
SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND XREF ECP



OVERALL PROJECT/NPDES BOUNDARY - 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE - 14.60 ACRES
 ON-SITE LIMIT OF DISTURBANCE - 12.77 ACRES
 OFF-SITE LIMIT OF DISTURBANCE - 0.45 ACRES
 (FOR UTILITY INSTALLATION WITHIN LIMEKILN ROAD ROW)
 OFF-SITE LIMIT OF DISTURBANCE - 1.38 ACRES
 (FOR UTILITY INSTALLATION WITHIN FERRY ROAD ROW)

LEGEND

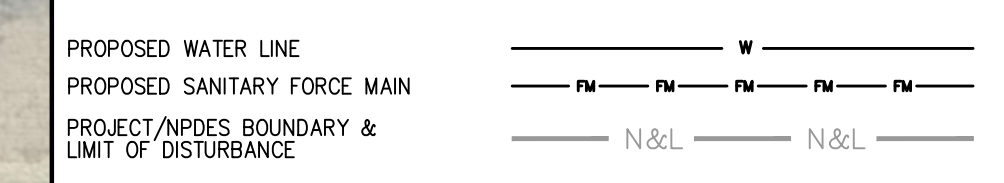
EXISTING CONTOUR	---	PROPOSED FIRE HYDRANT	▲ FH	FILTER BAG INLET PROTECTION	□
EXISTING SANITARY SEWER	--- S	PROPOSED WATER LINE	— W	ROCK FILTER	▨
EXISTING STORM SEWER	--- ST	PROPOSED WATER SERVICE LINE	— WS	PROPOSED RIP-RAP	▧
EXISTING WATER LINE	— W	PROPOSED STORM SEWER	--- SS	EMERGENCY SPILLWAY	▩
EXISTING GAS LINE	— G	RELOCATED PECO POLE	— P	GEOTEXTILE LINER	▤
EXISTING OVERHEAD WIRES	— O	RELOCATED OVERHEAD WIRE	— OW	SWALE GEOTEXTILE LINER	▥
EXISTING EDGE OF MACADAM	— M	LIMIT OF DISTURBANCE	— LOD	DRAINAGE AREA TO SEDIMENT BASIN/TRAP	▦
EXISTING EDGE OF TREES	— T	PROJECT/NPDES BOUNDARY	— N&L	DRAINAGE AREA TO SWALE	▧
EXISTING TREE	●	PROJECT/NPDES BOUNDARY & LIMIT OF DISTURBANCE	— N&L		
SOILS LINE	— S	COMPOST FILTER SOCK	— CFS		
WETLANDS	— W	CONSTRUCTION ENTRANCE WITH WASH RACK	— CR		
PROPOSED EDGE OF TREES	— P	TOPSOIL STOCKPILE	— TS		
PROPOSED TREE PROTECTION FENCE	— PTF				
PROPOSED SANITARY SEWER	— PS				
PROPOSED SANITARY SEWER LATERAL	— PSL				
PROPOSED SANITARY FORCE MAIN	— PSF				
PROPOSED SANITARY MANHOLE	— PM				



GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408 OR NEW BRITAIN TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
2. ALL CONTRACTORS PROVIDING CONSTRUCTION SERVICES AT THIS SITE (OR SITE RELATED CONSTRUCTION) SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS. URWILER AND WALTER, INC., NEW BRITAIN TOWNSHIP, ITS AGENTS AND ASSIGNS WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LIABILITY ARISING FROM THE FAILURE OF ANY PARTY TO CONFIRM WITH THE APPLICABLE OSHA STANDARDS AND REGULATIONS.
3. INFILTRATION BASIN AND RAINGARDEN AMENDED SOILS AREA TO BE SEEDED WITH ERNST RAIN GARDEN GRASS MIX (ERNMX-180-1).
4. SEE SHEET 18 FOR LANDSCAPING CHART.
5. THE PROPERTY OWNER SHALL HAVE THE RESPONSIBILITY FOR THE PERPETUAL MAINTENANCE OF THE PERMANENT STORMWATER BMP'S, AND PIPES WHICH ARE LOCATED ON HIS PROPERTY. NO CHANGES SHALL BE MADE TO THE STRUCTURES, PIPES OR FINISH GRADING WITHOUT PRIOR WRITTEN APPROVAL FROM THE TOWNSHIP. THE TOWNSHIP HAS THE RIGHT TO ENTER THE LOT TO PERFORM ANY REQUIRED MAINTENANCE WHICH HAS NOT BEEN PROPERLY PERFORMED OR CARRIED OUT IN A TIMELY MANNER. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE COST OF ANY MAINTENANCE WHICH IS PERFORMED BY THE TOWNSHIP. THE TOWNSHIP SHALL LEND THE PROPERTY FOR SAID COSTS UNTIL THE TOWNSHIP HAS BEEN REIMBURSED IN FULL.
6. IT SHALL BE UNLAWFUL TO ALTER OR REMOVE ANY PERMANENT STORMWATER BMP REQUIRED BY AN APPROVED BMP OPERATIONS AND MAINTENANCE PLAN, OR ALLOW THE PROPERTY TO REMAIN IN A CONDITION WHICH DOES NOT CONFORM TO AN APPROVED BMP OPERATIONS AND MAINTENANCE PLAN, UNLESS AN EXCEPTION IS GRANTED IN WRITING BY THE TOWNSHIP.
7. THE NEW BRITAIN TOWNSHIP IS GRANTED A BLANKET EASEMENT TO ACCESS EVERY CONVEYANCE AND BMP LOCATED ON THE PROPERTY FOR INSPECTION AND MAINTENANCE OR PRESERVATION OF STORMWATER RUNOFF CONVEYANCE, INFILTRATION AND DETENTION AREAS. THE NEW BRITAIN TOWNSHIP MAY UNDERTAKE ANY ACTION NECESSARY TO ENFORCE STORMWATER WATER MANAGEMENT REGULATIONS OF O&M PLAN AND O&M AGREEMENT. THIS SHALL BE A RIGHT OF THE TOWNSHIP BUT SHALL NOT BE CONSIDERED AS AN OBLIGATION OR DUTY.
8. CONSTRUCTION WASTE INCLUDES MILLINGS, CONCRETE, BLOCK, WOOD, LANDSCAPING, SEDIMENT / SILT, ETC.
9. THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOIL WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 2601 ET SEQ. 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
SEDIMENT/SILT REMOVAL FROM BMP'S SHALL BE DISPOSED OF WITHIN LANDSCAPE AREAS ON-SITE. IF THE QUANTITY OF SEDIMENT/SILT EXCEEDS THE LANDSCAPE AREA ABILITY TO ACCEPT IT, DISPOSAL OF THIS MATERIAL WILL BE HAULED TO AN APPROVED CONSTRUCTION WASTE DISPOSAL SITE.
10. TREE PROTECTION FENCE USED TO PROTECT STORMWATER BMP'S SHALL BE REMOVED AT TIME OF STABILIZATION.
11. REFER TO SHEET 22 FOR SITE DISCHARGE MAP.

LEGEND



OVERALL PROJECT/NPDES BOUNDARY – 17.50 ACRES
 OVERALL LIMIT OF DISTURBANCE – 14.60 ACRES
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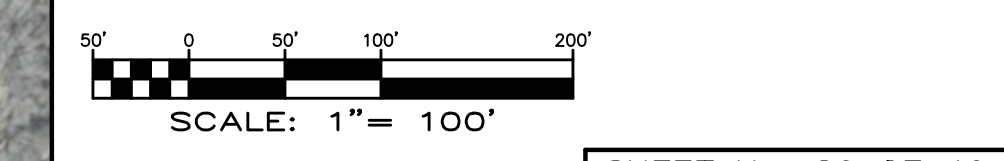
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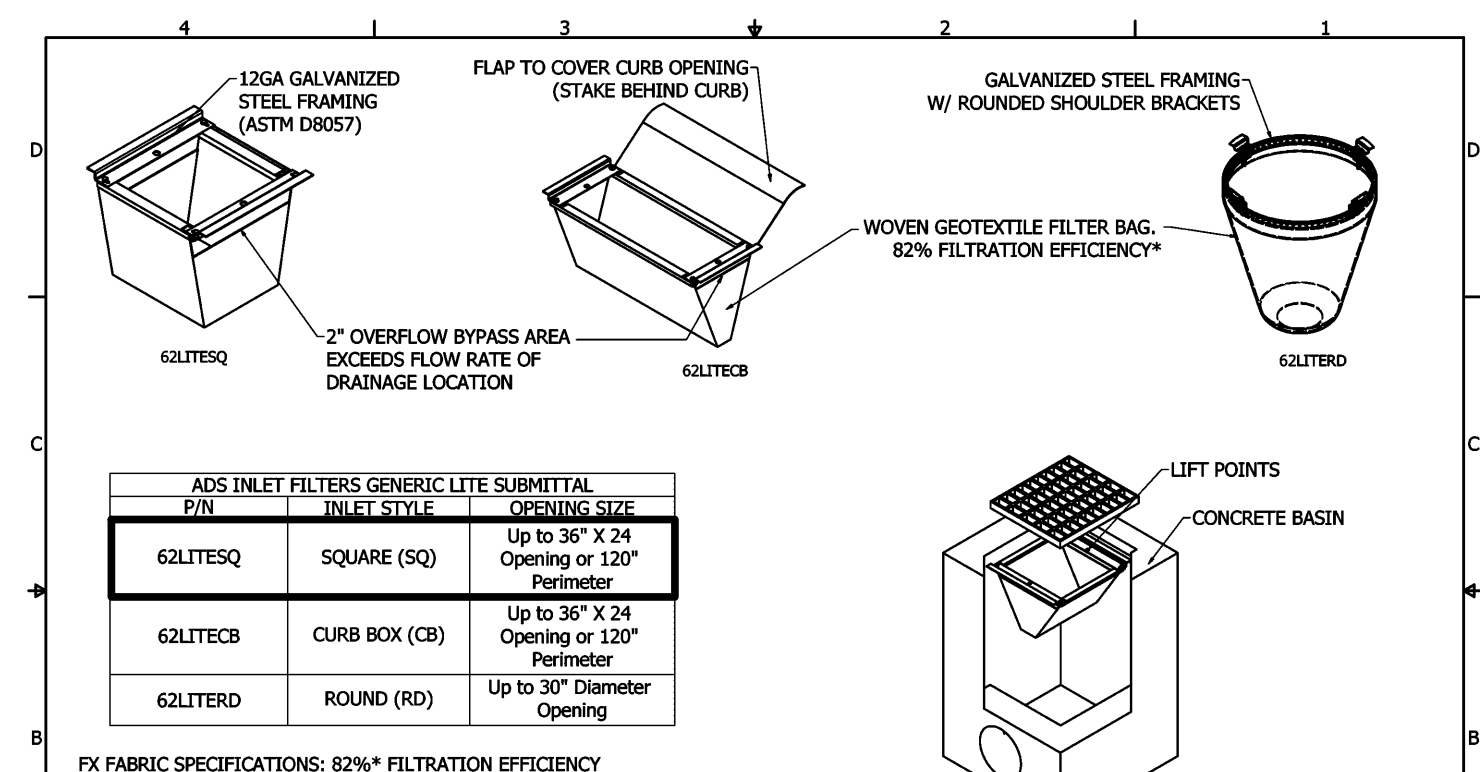
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
 LAND DEVELOPMENT with
 EROSION CONTROL PLAN (3 OF 3)
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND





ADS INLET FILTERS GENERIC LIFE SUBMITTAL table with columns for Inlet Style, Opening Size, and ADS Inlet Filter Submittal.

FX FABRIC SPECIFICATIONS: 82% FILTRATION EFFICIENCY table listing various fabric types and their properties.

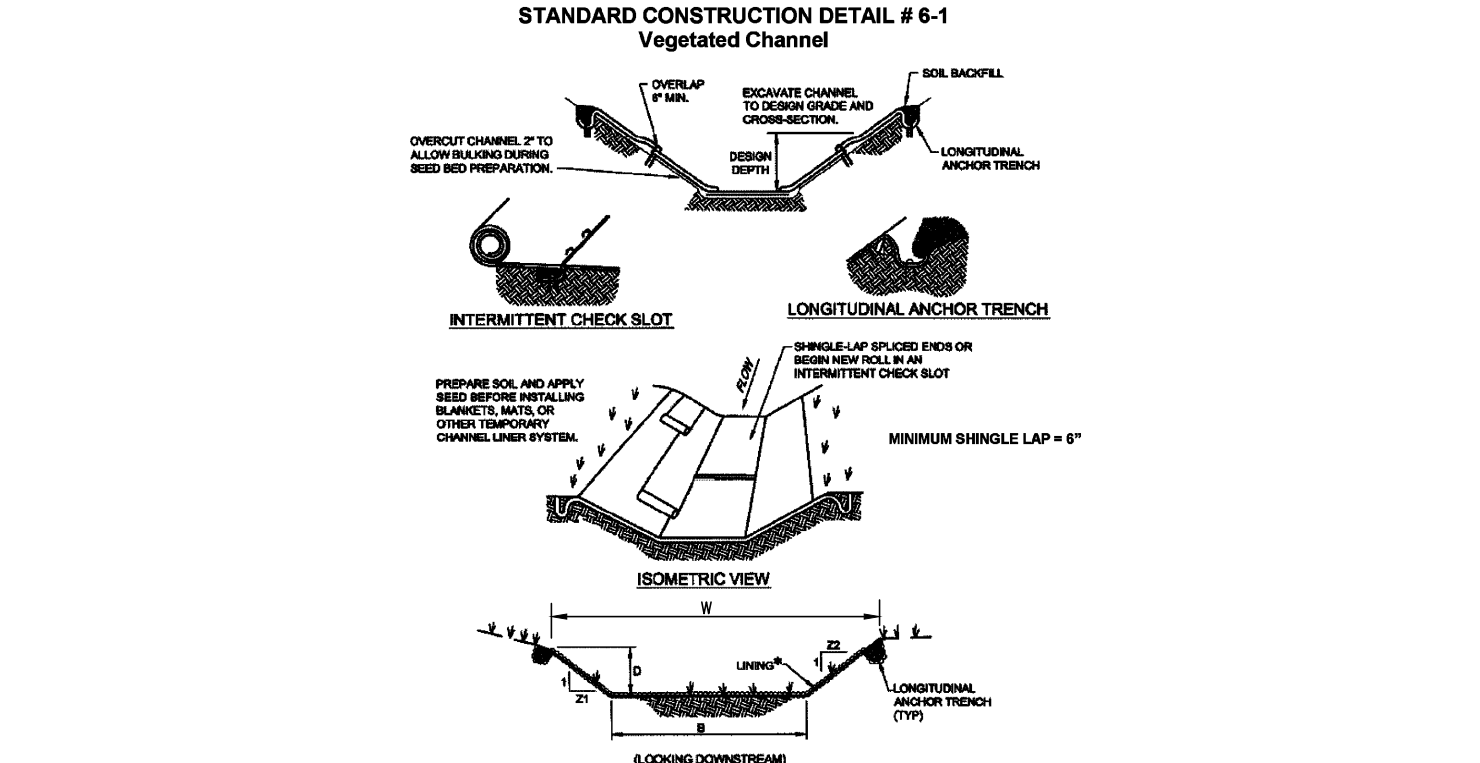


Table with columns for Channel, B (FT), D (FT), W (FT), Z1 (FT), Z2 (FT), and Lining. Lists various channel configurations and their specifications.

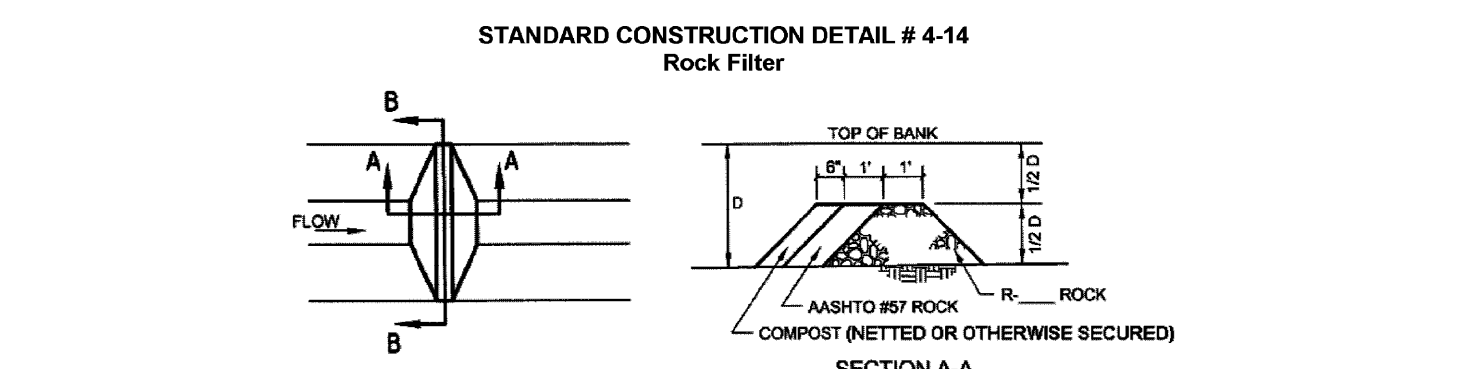
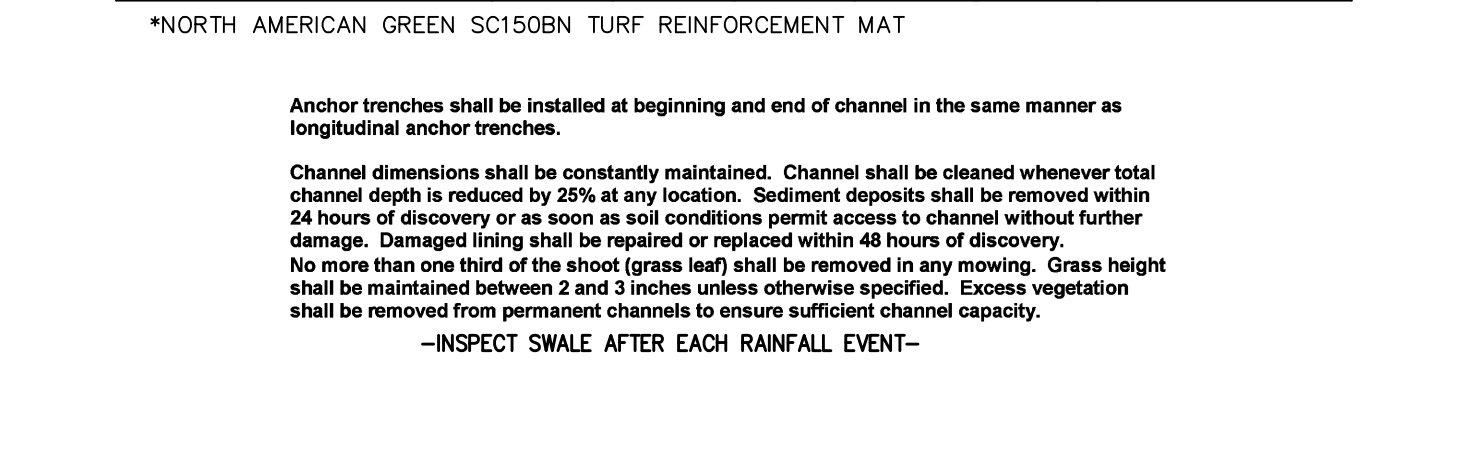
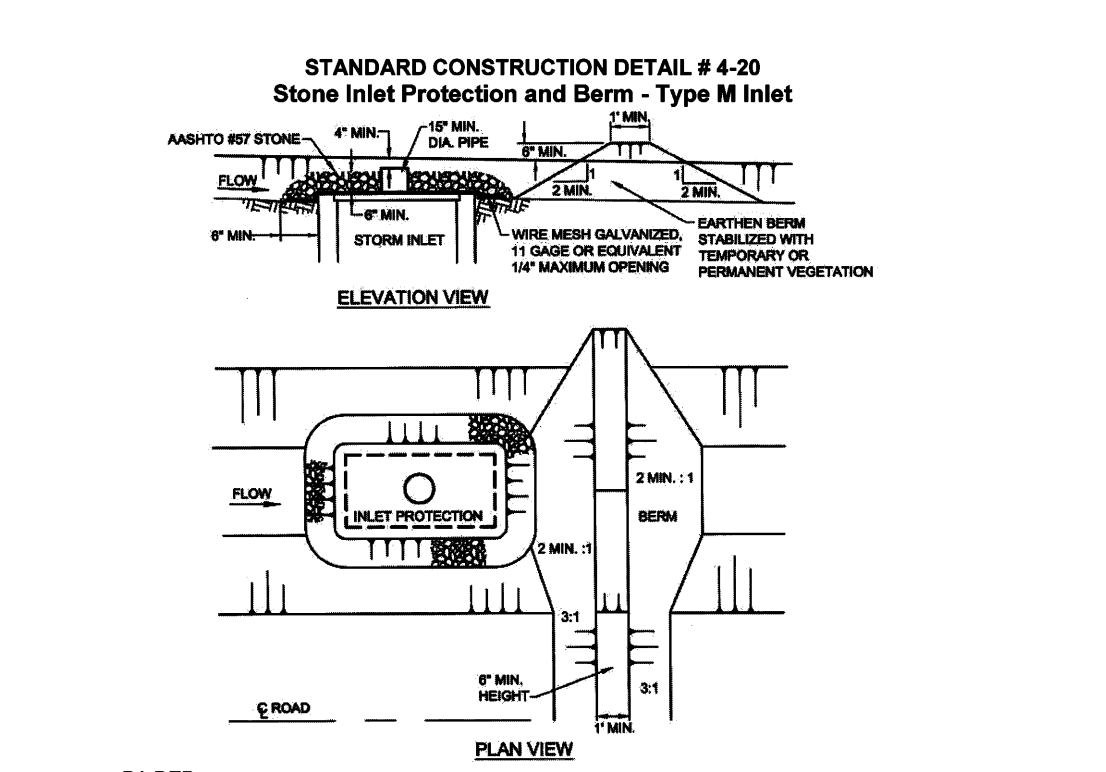


Table with columns for Rock Filter No., Location, D (FT.), and Riprap Size. Lists specifications for rock filters.

Sediment shall be removed when accumulations reach 1/2 the height of the filter. Immediately upon stabilization of each channel, installer shall remove accumulated sediment, remove rock filter, and stabilize disturbed areas.



Standard Construction Detail #4-20 Stone Inlet Protection and Berm - Type M Inlet. Includes diagrams of inlet styles and a table of ADS Inlet Filters Generic Life Submittal.

Standard Construction Detail #4-20 Stone Inlet Protection and Berm - Type M Inlet. Includes diagrams of inlet styles and a table of ADS Inlet Filters Generic Life Submittal.

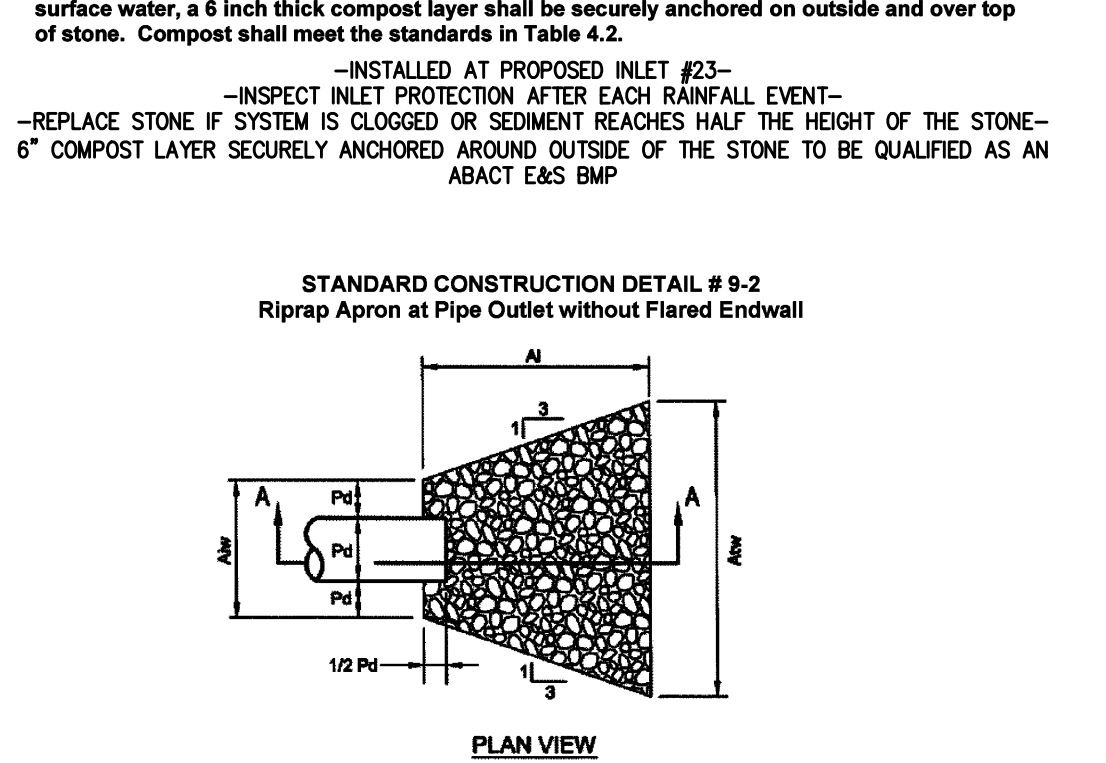


Table with columns for Pipe Dia (in), Tailwater Condition, Man. yd for Pipe, Pipe Slope (ft/ft), Q (cfs), V (ft/s), Riprap Size (R-4 min), Rt (ft), At (ft), and Atw (ft).

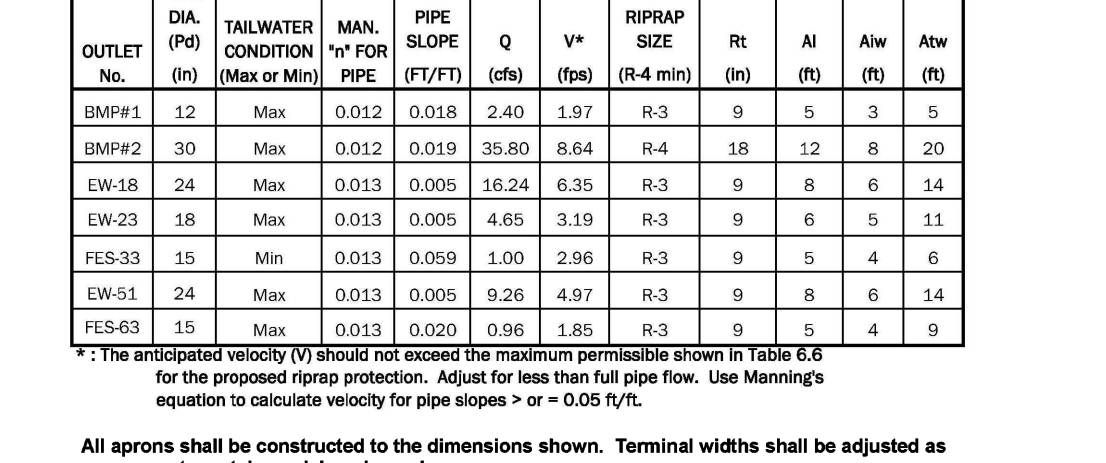
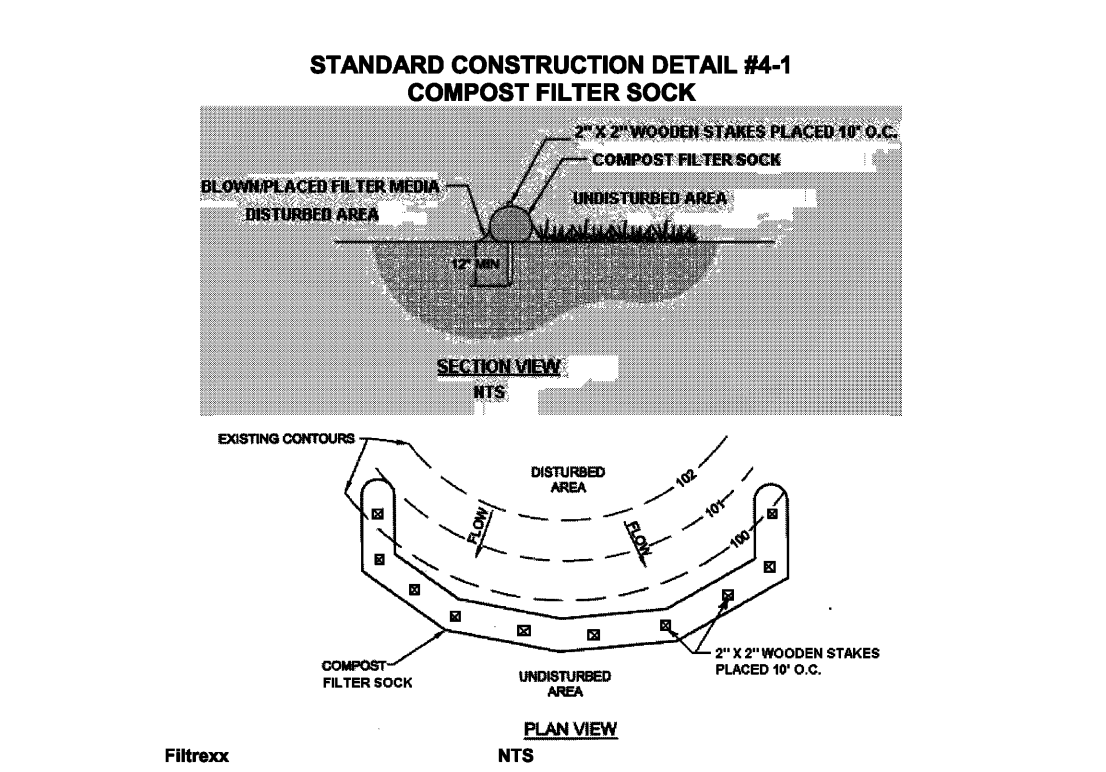


Table with columns for Material Type, Photo-degradable, Bio-degradable, Multi-Filament Polypropylene (MPP), and Heavy Duty Multi-Filament Polypropylene (HDMP).

Table with columns for Material Type, Photo-degradable, Bio-degradable, Multi-Filament Polypropylene (MPP), and Heavy Duty Multi-Filament Polypropylene (HDMP).

Table with columns for Material Type, Photo-degradable, Bio-degradable, Multi-Filament Polypropylene (MPP), and Heavy Duty Multi-Filament Polypropylene (HDMP).



Standard Construction Detail #4-1 Compost Filter Sock. Includes diagrams of filter sock installation and a table of ADS Inlet Filters Generic Life Submittal.

Standard Construction Detail #4-1 Compost Filter Sock. Includes diagrams of filter sock installation and a table of ADS Inlet Filters Generic Life Submittal.

Table with columns for Sock No., Dia (in), Location, Slope (%), and Slope Length Above Barrier (ft).

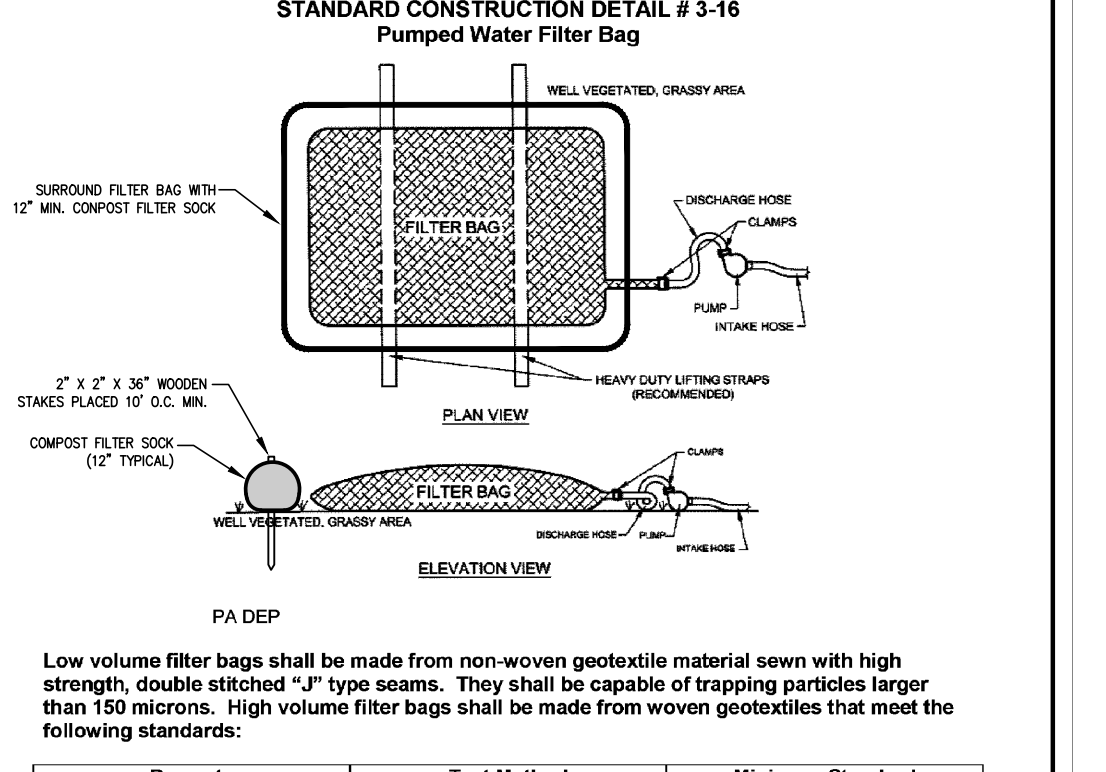
Table with columns for Material Type, Photo-degradable, Bio-degradable, Multi-Filament Polypropylene (MPP), and Heavy Duty Multi-Filament Polypropylene (HDMP).

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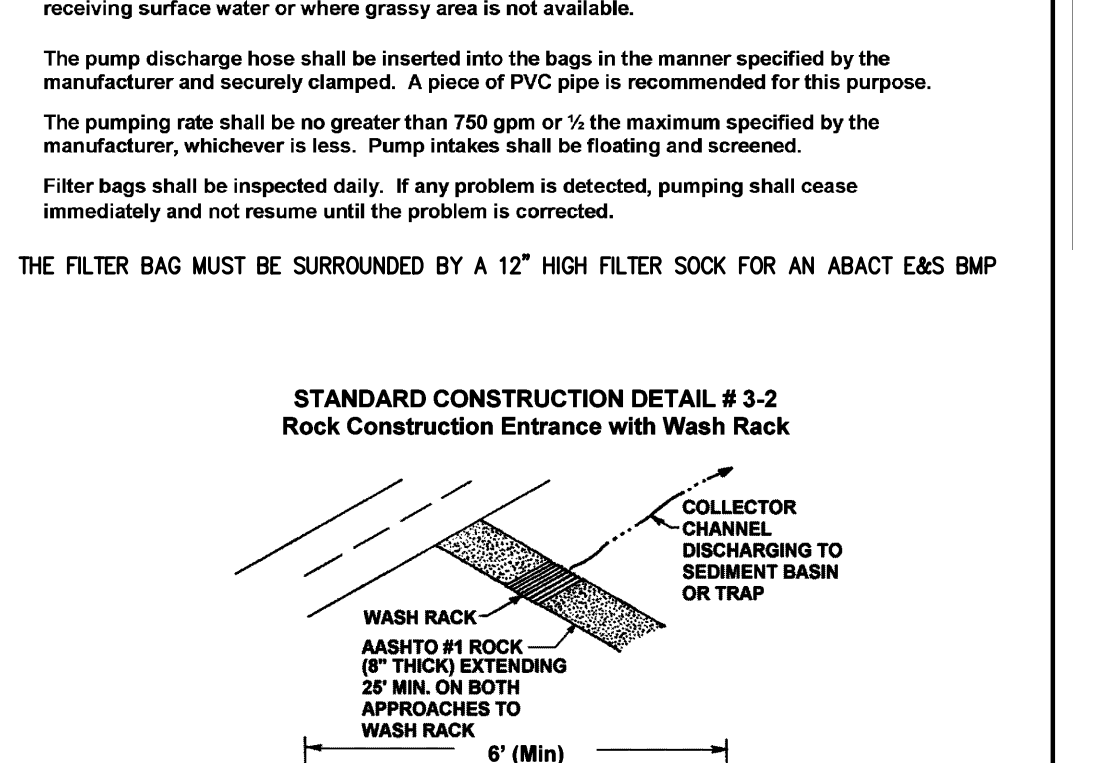
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Table with columns for Material Type, Photo-degradable, Bio-degradable, Multi-Filament Polypropylene (MPP), and Heavy Duty Multi-Filament Polypropylene (HDMP).



Standard Construction Detail #3-16 Pumped Water Filter Bag. Includes diagrams of filter bag installation and a table of ADS Inlet Filters Generic Life Submittal.

Standard Construction Detail #3-16 Pumped Water Filter Bag. Includes diagrams of filter bag installation and a table of ADS Inlet Filters Generic Life Submittal.



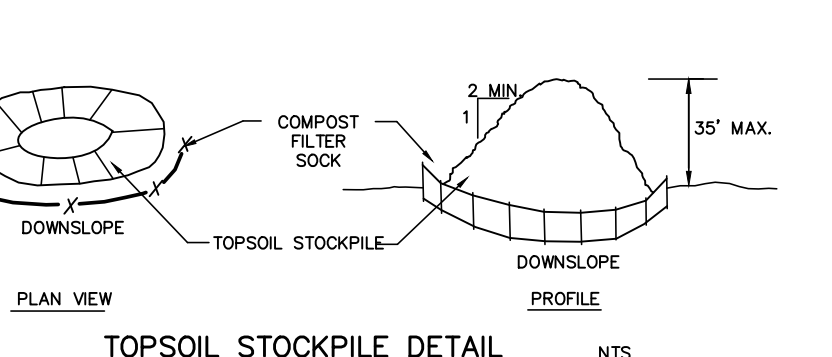
Standard Construction Detail #3-2 Rock Construction Entrance with Wash Rack. Includes diagrams of wash rack installation and a table of ADS Inlet Filters Generic Life Submittal.

Table with columns for Material Type, Photo-degradable, Bio-degradable, Multi-Filament Polypropylene (MPP), and Heavy Duty Multi-Filament Polypropylene (HDMP).

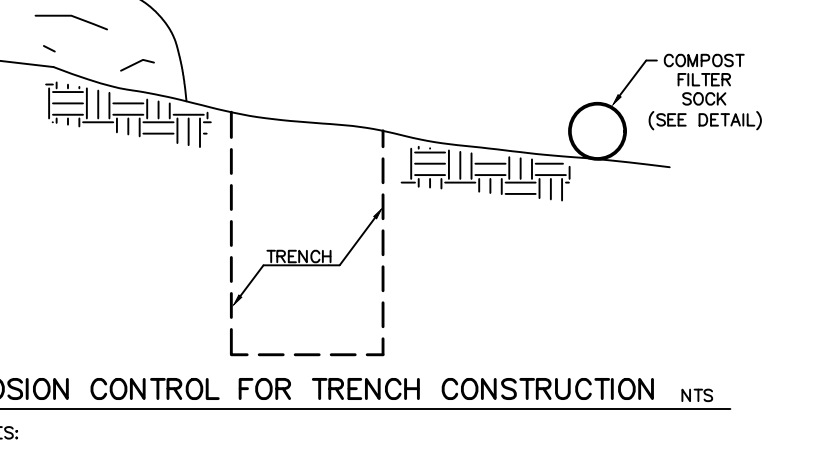
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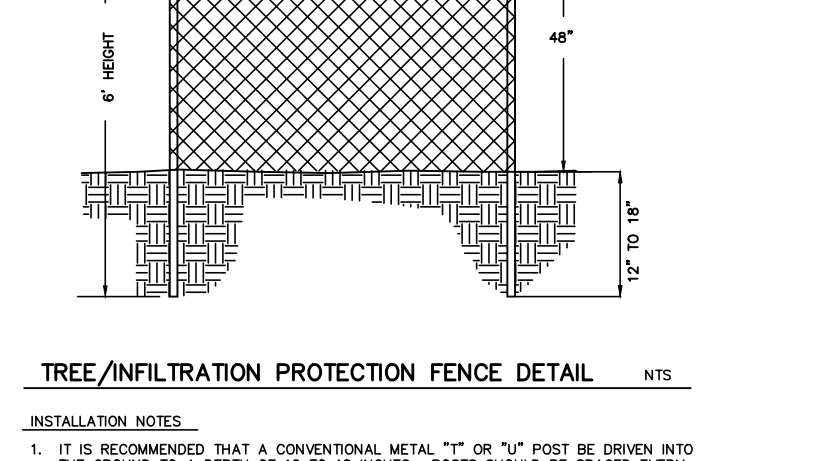
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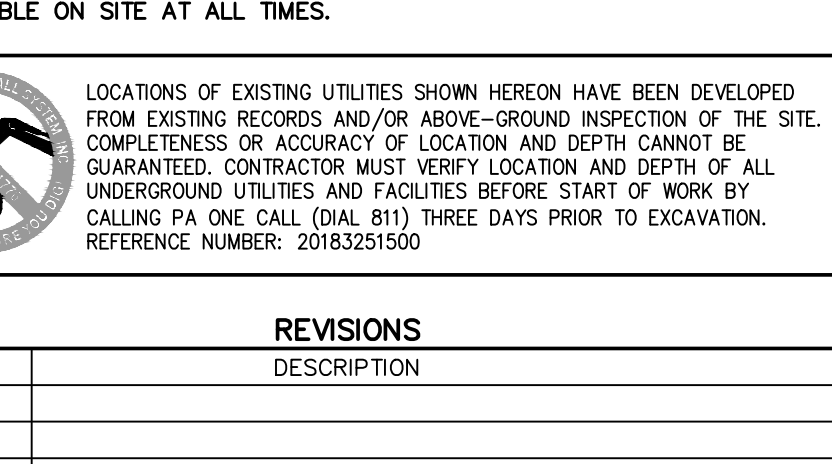
Standard Construction Detail #3-16 Pumped Water Filter Bag. Includes diagrams of filter bag installation and a table of ADS Inlet Filters Generic Life Submittal.



Standard Construction Detail #3-2 Rock Construction Entrance with Wash Rack. Includes diagrams of wash rack installation and a table of ADS Inlet Filters Generic Life Submittal.



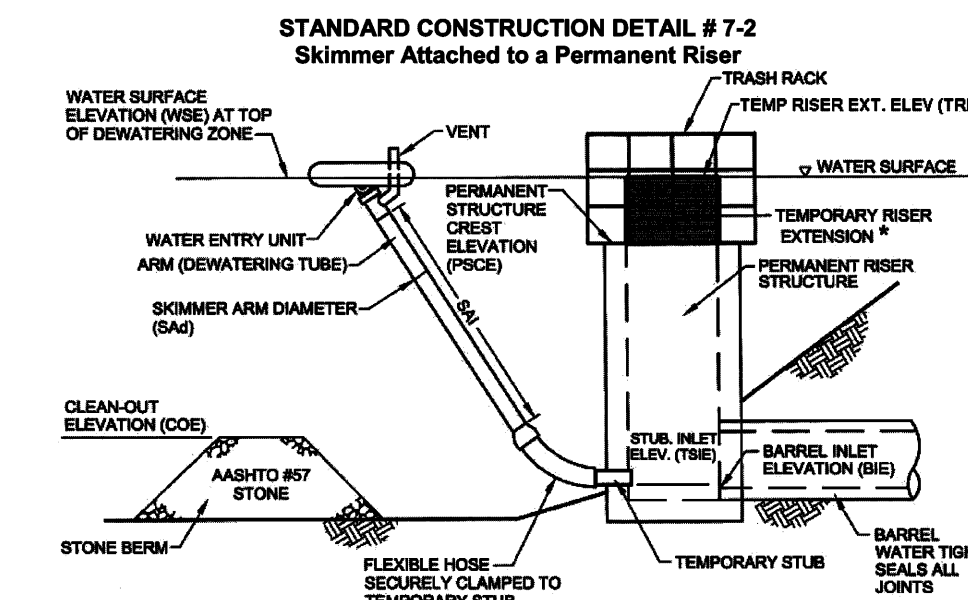
Standard Construction Detail #3-2 Rock Construction Entrance with Wash Rack. Includes diagrams of wash rack installation and a table of ADS Inlet Filters Generic Life Submittal.



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Standard Construction Detail #3-2 Rock Construction Entrance with Wash Rack. Includes diagrams of wash rack installation and a table of ADS Inlet Filters Generic Life Submittal.



PA DEP
NOTE: This table is intentionally blank and should be filled in by the plan preparer.

BASIN NO.	WATER SURFACE		ORIFICE		SKIMMER		FLEXIBLE HOSE	
	Z1 (FT)	Z2 (FT)	DIA (IN)	HEAD (FT)	DIA (IN)	ARM LENGTH (FT)	DIA (IN)	MAT'L
SEDIMENT BASIN	3	3	3	1.22	3	4	PVC	3

BASIN NO.	WATER SURFACE ELEV. WSE (FT)	DIA (IN)	MATERIAL	TEMPORARY STUB		PERMANENT RISER		RISER EXTENSION		BARREL	
				INVERT ELEV. (FT)	MAT'L	CREST ELEV. (FT)	HORIZ. OPENING LENGTH (FT)	WIDTH (IN)	INLET ELEV. (FT)	DIA (IN)	WIDTH (IN)
SEDIMENT BASIN	454.70	PVC	458.25	72	24	-	-	-	-	-	454.50

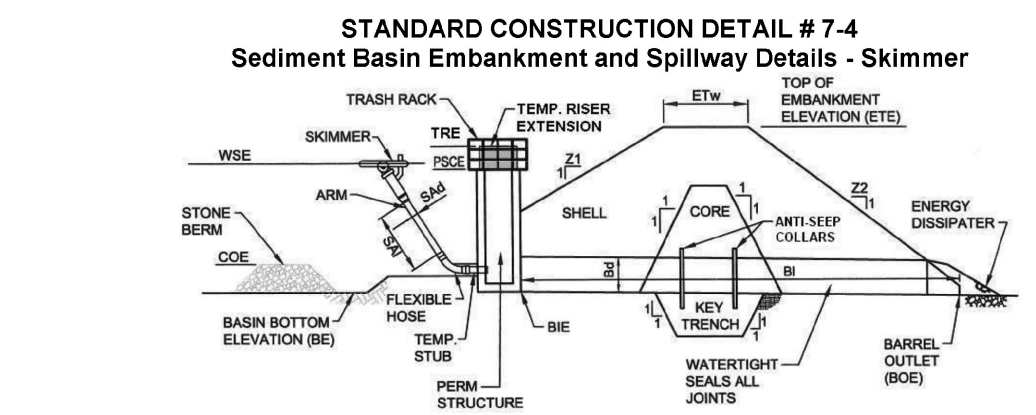
All orifices on permanent riser below temporary riser extension shall have water-tight temporary seals provided. Temporary stub invert elevation shall be set at or below sediment clean-out elevation.

A rope shall be attached to the skimmer arm to facilitate access to the skimmer once installed. Skimmer shall be inspected weekly and after each runoff event.

Any malfunctioning skimmer shall be repaired or replaced within 24 hours of inspection.

Ice or sediment buildup around the principal spillway shall be removed so as to allow the skimmer to respond to fluctuating water elevations.

Sediment shall be removed from the basin when it reaches the level marked on the sediment clean-out stake or the top of the stone berm. See Standard Construction Detail # 7-3 for configuration of stone berm.



PA DEP

BASIN NO.	Z1 (FT)	Z2 (FT)	TEMP RISER EXT. ELEV. (FT)	EMBANKMENT		CLEAN OUT ELEV. COE (FT)	BOTTOM ELEV. BE (FT)
				TOP ELEV. ETE (FT)	KEY TRENCH DEPTH (FT)		
SEDIMENT BASIN	3	3	458.75	10.00	4.00	10.00	457.00

BASIN NO.	SKIMMER LENGTH (FT)	DIA (IN)	MATERIAL	OUTLET BARREL	
				LENGTH (FT)	OUTLET ELEV. BOE (FT)
SEDIMENT BASIN	4	PVC	3	258.50	27

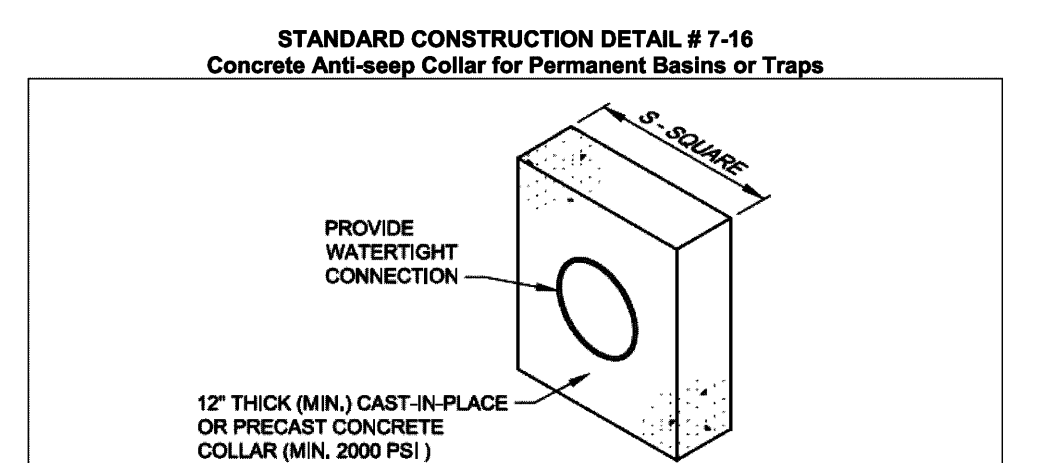
Sediment basins, including all appurtenant works, shall be constructed to the detail and dimensions shown on the E&S plan drawings.

Area under embankment shall be cleared, grubbed, and stripped of topsoil to a depth of two feet prior to any placement and compaction of earth fill. In order to facilitate maintenance and restoration, the pool area shall be cleared of all brush, trees, and objectionable material. Fill material for the embankments shall be free of roots, or other woody vegetation, organic material, large stones, and other objectionable materials. The embankment shall be compacted in layered lifts of not more than 6" to 9". The maximum rock size shall be no greater than 2/3 the lift thickness.

Upon completion, the embankment shall be seeded, mulched, blanketed or otherwise stabilized according to the specifications of the E&S plan drawings. Trees shall not be planted on the embankment.

Inspect all sediment basins on at least a weekly basis and after each runoff event. Provide access for sediment removal and other required maintenance activities. A clean out stake shall be placed near the center of each basin. Accumulated sediment shall be removed when it has reached the clean out elevation on the stake and the basin restored to its original dimensions. Dispose of materials removed from the basin in the manner described in the E&S plan.

Basin embankments, spillways, and outlets shall be inspected for erosion, piping and settlement. Necessary repairs shall be immediately. Displaced riprap within the outlet energy dissipator shall be replaced immediately.



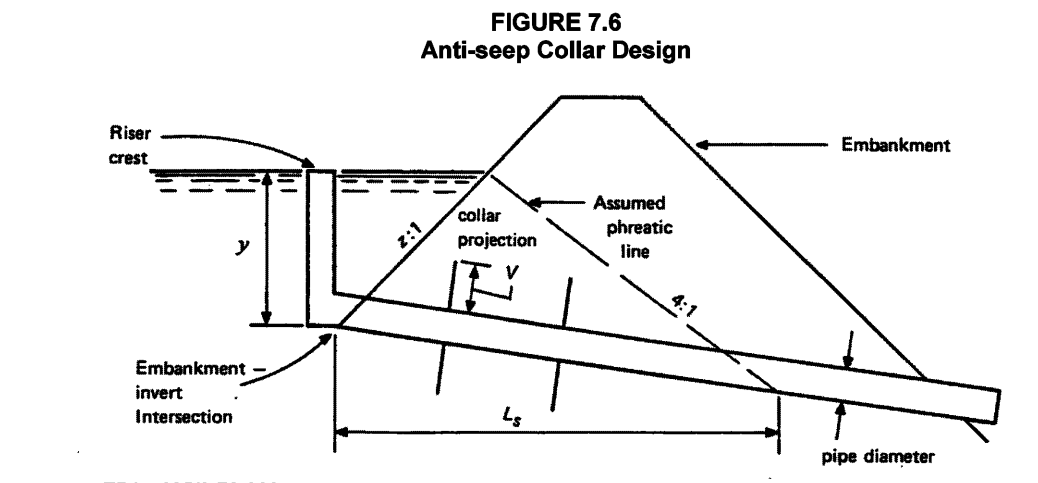
Slackhouse Bentsinger, Inc.

All collars shall be installed so as to be watertight. Collar size and spacing shall be as indicated below.

NOTE: This table is intentionally blank and should be filled in by the plan preparer.

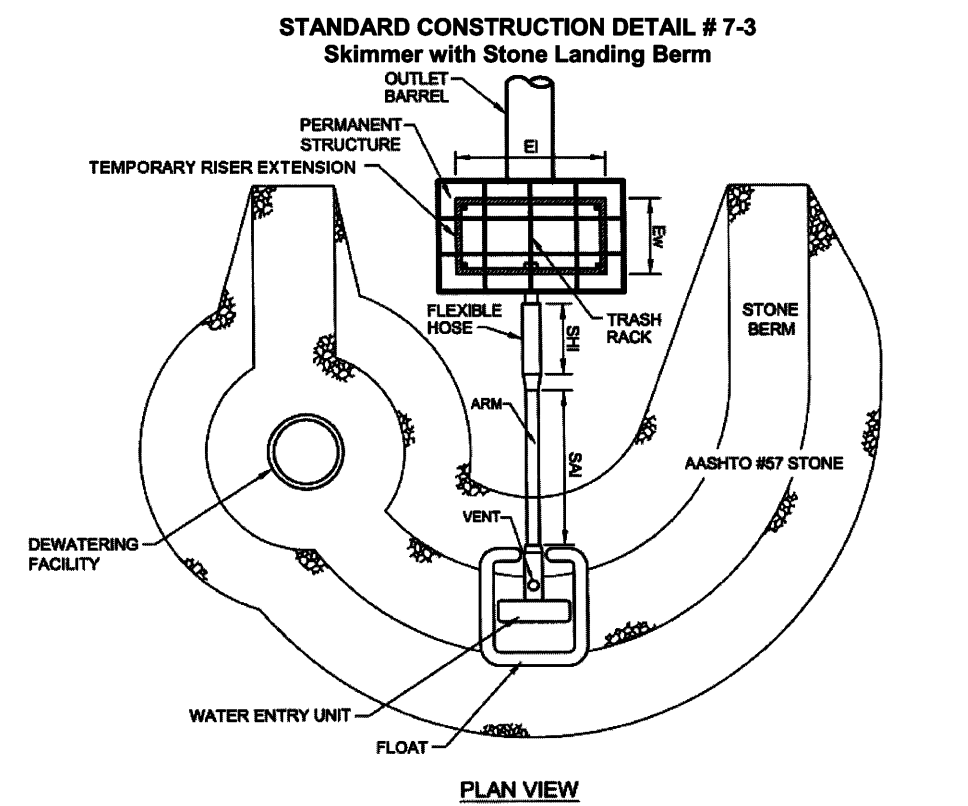
Basin or Trap No.	Pipe Size (in)	S (in)	No. of Collars	Distance Riser to 1st Collar (ft)	Collar Spacing (ft)
BMP #2	30	72	2	13	7

- NOTES:
- ANTI-SEEP COLLARS AND THEIR CONNECTIONS TO THE PIPE, OR BARREL, SHOULD BE WATERTIGHT.
 - ANTI-SEEP COLLARS SHOULD BE LOCATED BELOW THE PHREATIC LINE IN THE EMBANKMENT AND SHOULD BE EVENLY SPACED.
 - THEY SHOULD NOT BE LOCATED CLOSER THAN 2 FEET TO A PIPE JOINT.
 - THERE SHOULD BE SUFFICIENT DISTANCE BETWEEN COLLARS FOR HAULING AND COMPACTING EQUIPMENT.



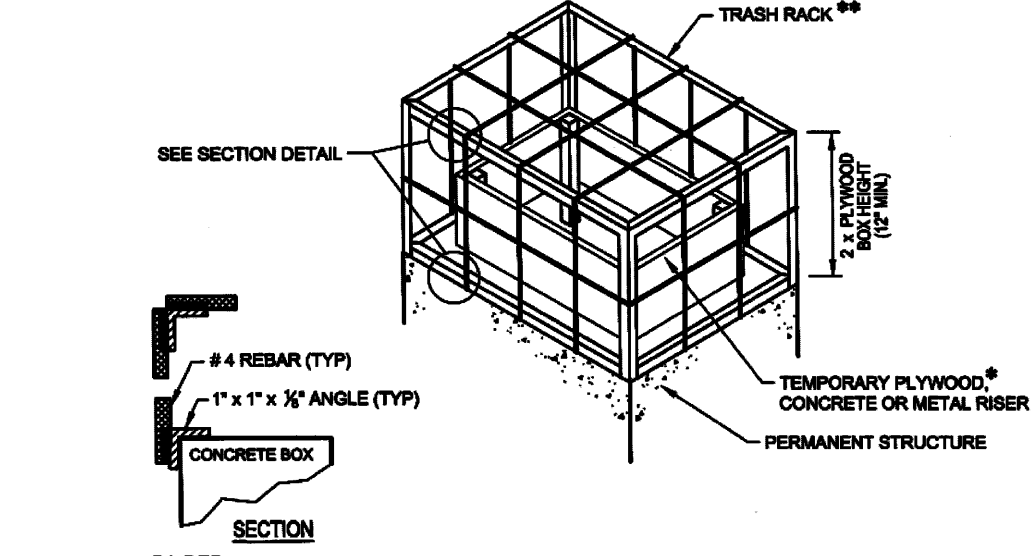
EPA - 625/3-76-006

BASIN NO.	TEMP. OR PERM.	Y (FT)	Z (FT)	Ls (FT)	Lf (FT)	V (IN)	BARREL DIA. (IN)	COLLAR SIZE (IN)	NO. COLLARS	COLLAR SPACING (FT)	DISTANCE TO 1ST COLLAR (FT)
BMP #2	Perm	3.75	3	28	3.3	21	30	72	2	13	7



PA DEP
No guide rails shall be required for this installation.

STANDARD CONSTRUCTION DETAIL # 7-10 Temporary Riser Extension and Trash Rack for Permanent Structure



PA DEP

* 3/4" pressure treated plywood box with 2" x 2" pressure treated corner supports, set into 1/2" grate offsets, caulk all seams to form watertight seals.

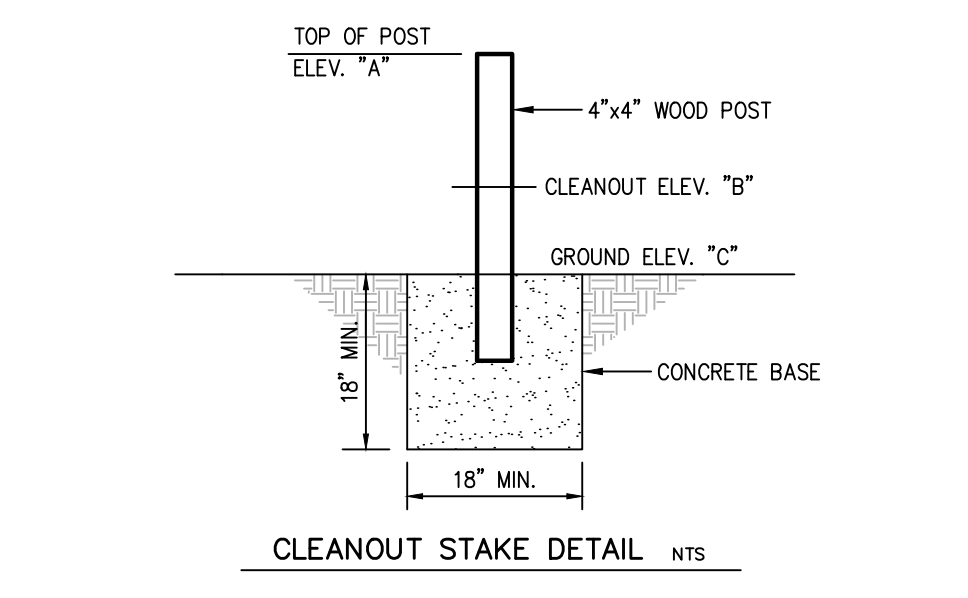
** Trash rack composed of 1" x 1" x 1/8" L (typ.) and #4 Bars (typ.) welded to the angles and at each intersection of the bars; #4 Bars spaced at half the diameter of the barrel max.

Box shall be bolted, strapped, or otherwise secured to the permanent riser.

Top of temporary riser extension shall be at least as high as sediment basin temporary riser and shall be 6" (minimum) below crest of emergency spillway.

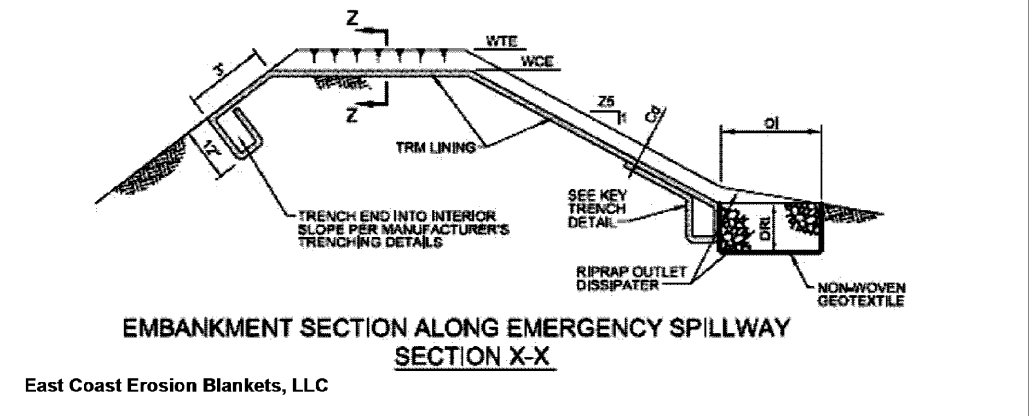
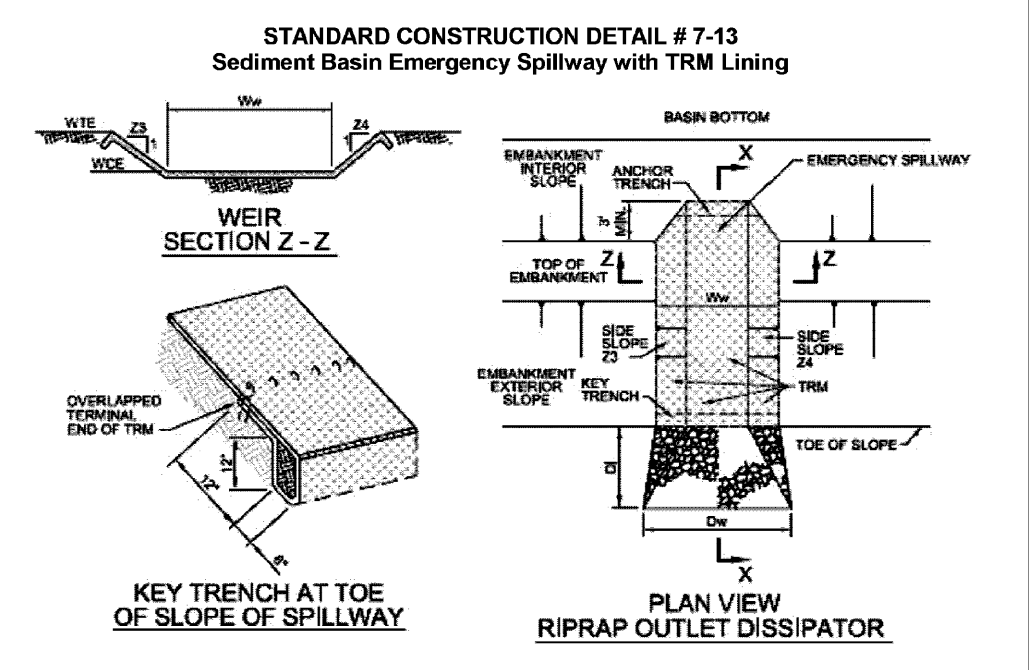
All joints shall be water tight.

Clogged or damaged spillways shall be repaired immediately. Trash and other debris shall be removed from the basin and riser.



BASIN OR TRAP No.	ELEV. 'A' (FT)	ELEV. 'B' (FT)	ELEV. 'C' (FT)
SEDIMENT BASIN	458.25	457.00	456.00

INFILTRATION BASIN (BMP #2) PERMANENT OUTLET STRUCTURE (OS-2) IS TO BE INSTALLED DURING CONSTRUCTION OF SEDIMENT BASIN (BMP #2). CONNECT SKIMMER TO INFILTRATION BASIN (BMP #2) OUTLET STRUCTURE (OS-2). CIRCULAR ORIFICE FOR THE SKIMMER TO BE PRECAST TO ACCEPT THE TEMPORARY 3 INCH PVC STUB PIPE. UPON CONVERSION OF SEDIMENT BASIN (BMP #2) TO INFILTRATION BASIN (BMP #2), SEAL THE TEMPORARY 3 INCH CIRCULAR ORIFICE WITH CONCRETE PLUG.

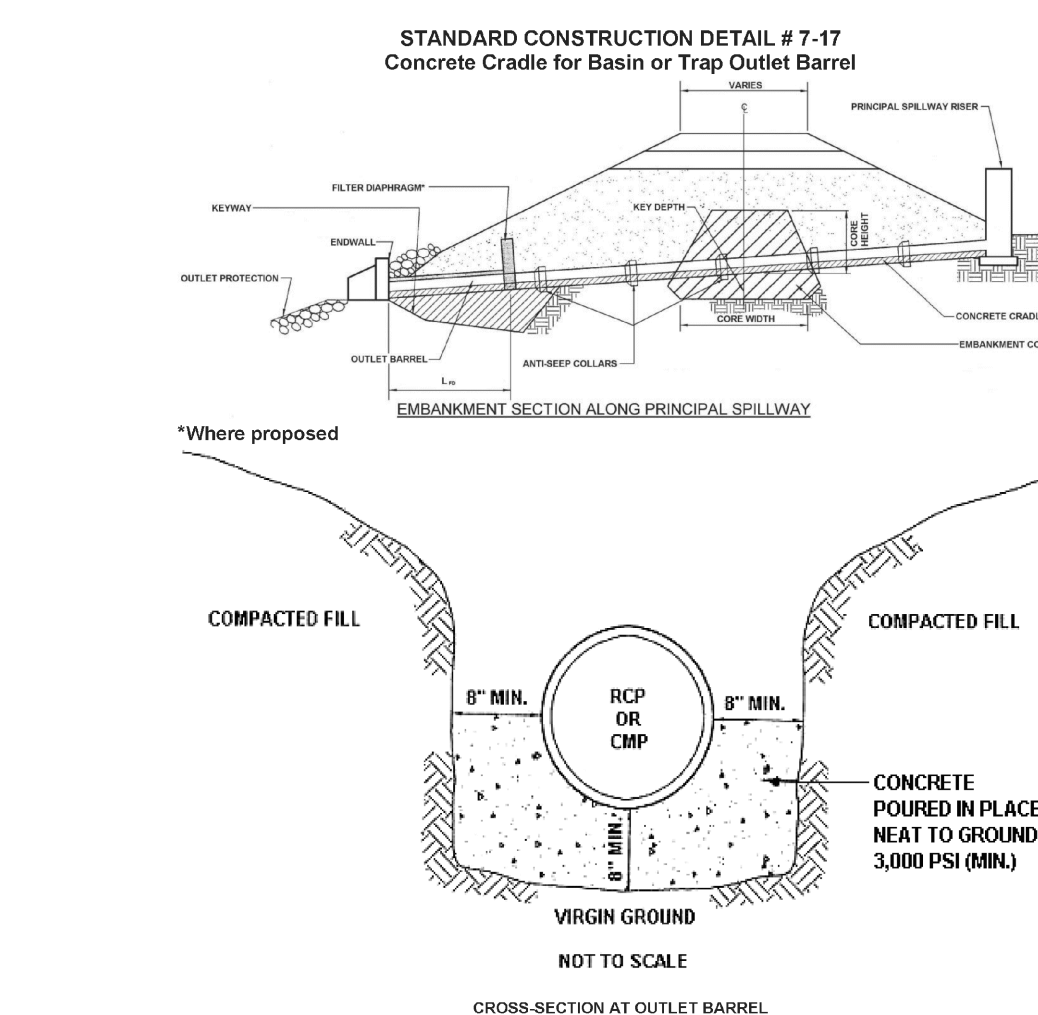


East Coast Erosion Blankets, LLC

NOTE: This table is intentionally blank and should be filled in by the plan preparer.

BASIN NO.	Z1 (FT)	Z2 (FT)	WTP	ELEV. WTE (FT)	WCE (FT)	W#	TRM	STAPLE PATTERN	ZS (FT)	DEPTH C-D (FT)	LENGTH D-E (FT)	W#	RIPRAP THICK. OR (IN)	RIPRAP OR (IN)
SEDIMENT BASIN	3	3	3	462.25	458.75	75	1MG T300	9	3	5	12	20	R-4	18

Heavy equipment shall not cross over spillway without precautions taken to protect TRM lining. Displaced liner within the spillway and/or outlet channel shall be replaced immediately. RIPRAP AT TOE OF EMBANKMENT SHALL BE EXTENDED A SUFFICIENT LENGTH IN BOTH DIRECTIONS TO PREVENT SCOUR. THE USE OF BAFFLES THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.



Adapted from Westmoreland Conservation District

Note: A concrete cradle may be used in conjunction with anti-seep collars and/or filter diaphragm.

Anti-seep collar number, size and spacing shall be as shown elsewhere in plan.

Filter diaphragm location (L₃) shall be as shown in Figure 7.8.

THE SITE CONTRACTOR IS RESPONSIBLE FOR PREPARING A PPC PLAN (PREPAREDNESS, PREVENTION AND CONTINGENCY PLAN) IN COMPLIANCE WITH PA DEP REGULATIONS, AND HAVING THE APPROPRIATE PROVISIONS AVAILABLE ON SITE AT ALL TIMES.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

REVISIONS	
DATE	DESCRIPTION

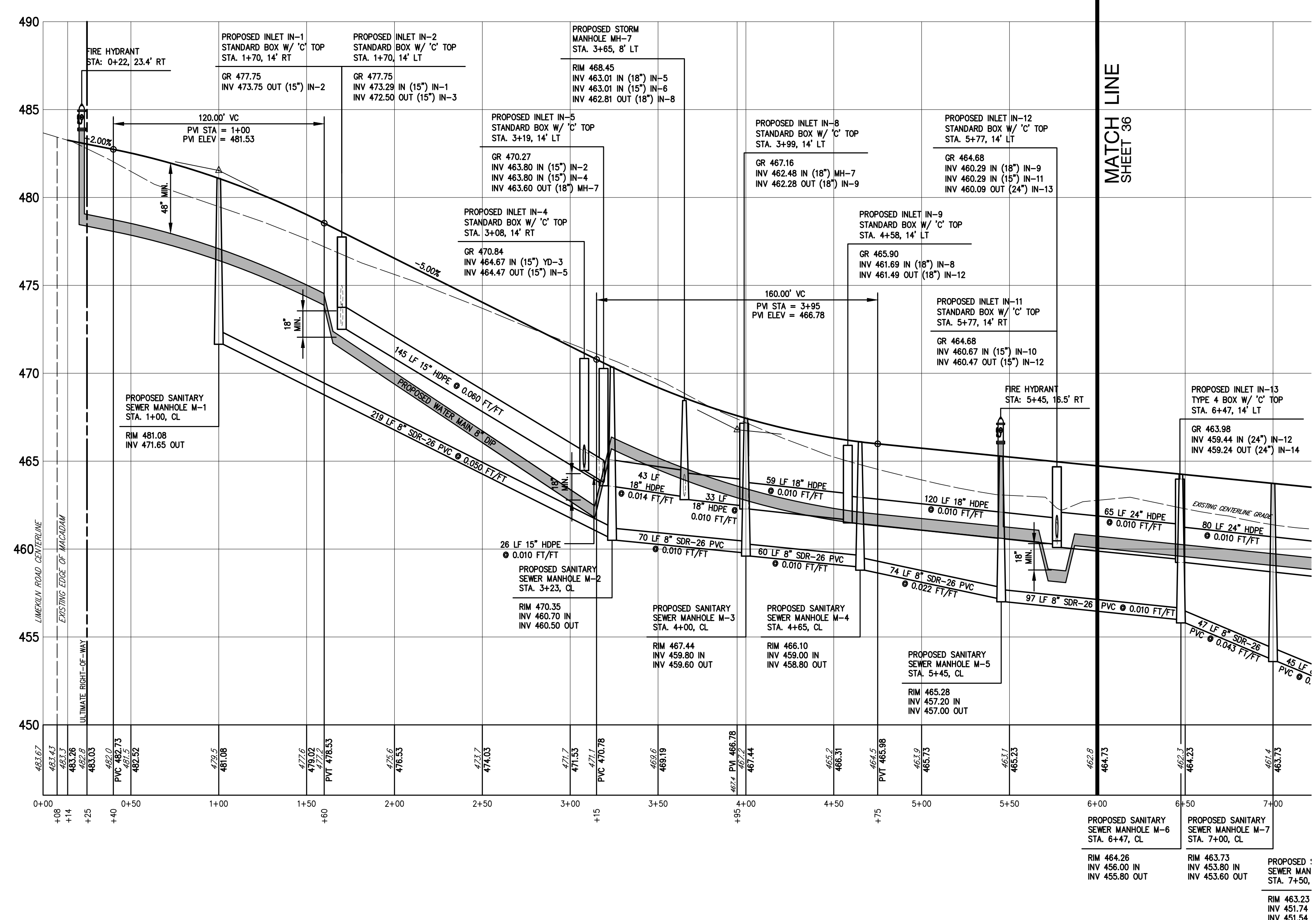
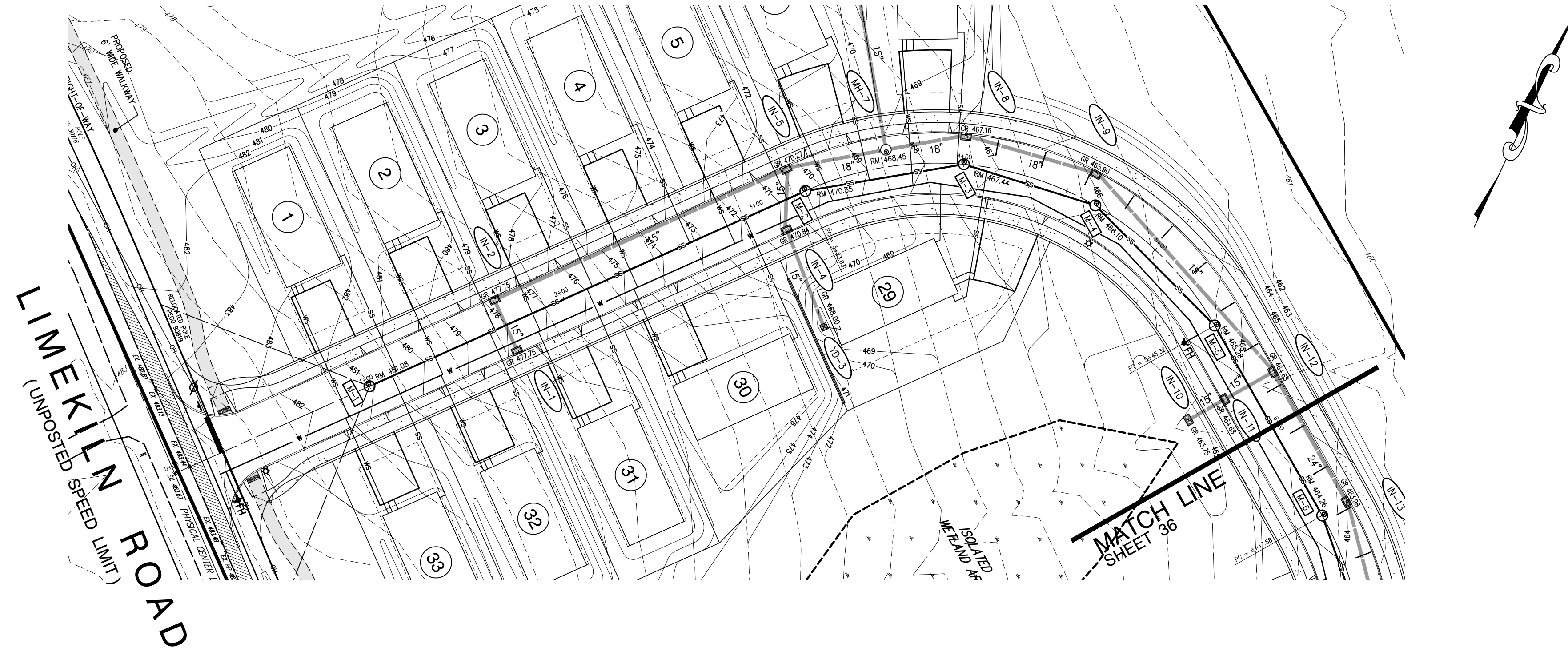
GALENA RESERVE MOBILE HOME PARK EROSION CONTROL DETAIL (3 OF 5)

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP





INTERNAL ROAD PROFILE
SCALE: HORZ. 1"=40'
VERT. 1"=4'

- GENERAL NOTES:**
1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408 OR NEW BRITAIN TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
 2. ALL CONTRACTORS PROVIDING CONSTRUCTION SERVICES AT THIS SITE (OR SITE RELATED CONSTRUCTION) SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS. URWILER AND WALTER, INC., NEW BRITAIN TOWNSHIP, ITS AGENTS AND ASSIGNS WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LIABILITY ARISING FROM THE FAILURE OF ANY PARTY TO CONFIRM WITH THE APPLICABLE OSHA STANDARDS AND REGULATIONS.
 3. STORM SEWER AND GRAVITY SANITARY SEWER PIPE LENGTHS DETAIL DISTANCE FROM OUTSIDE EDGE OF STRUCTURE TO OUTSIDE EDGE OF STRUCTURE.

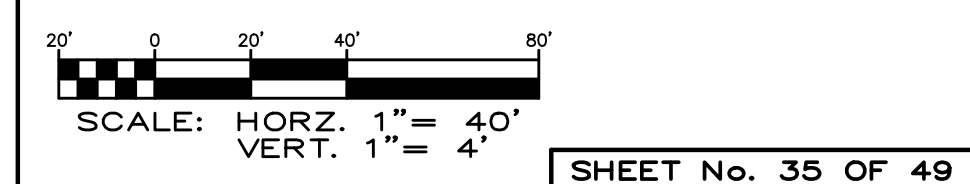
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REVISIONS	
DATE	DESCRIPTION

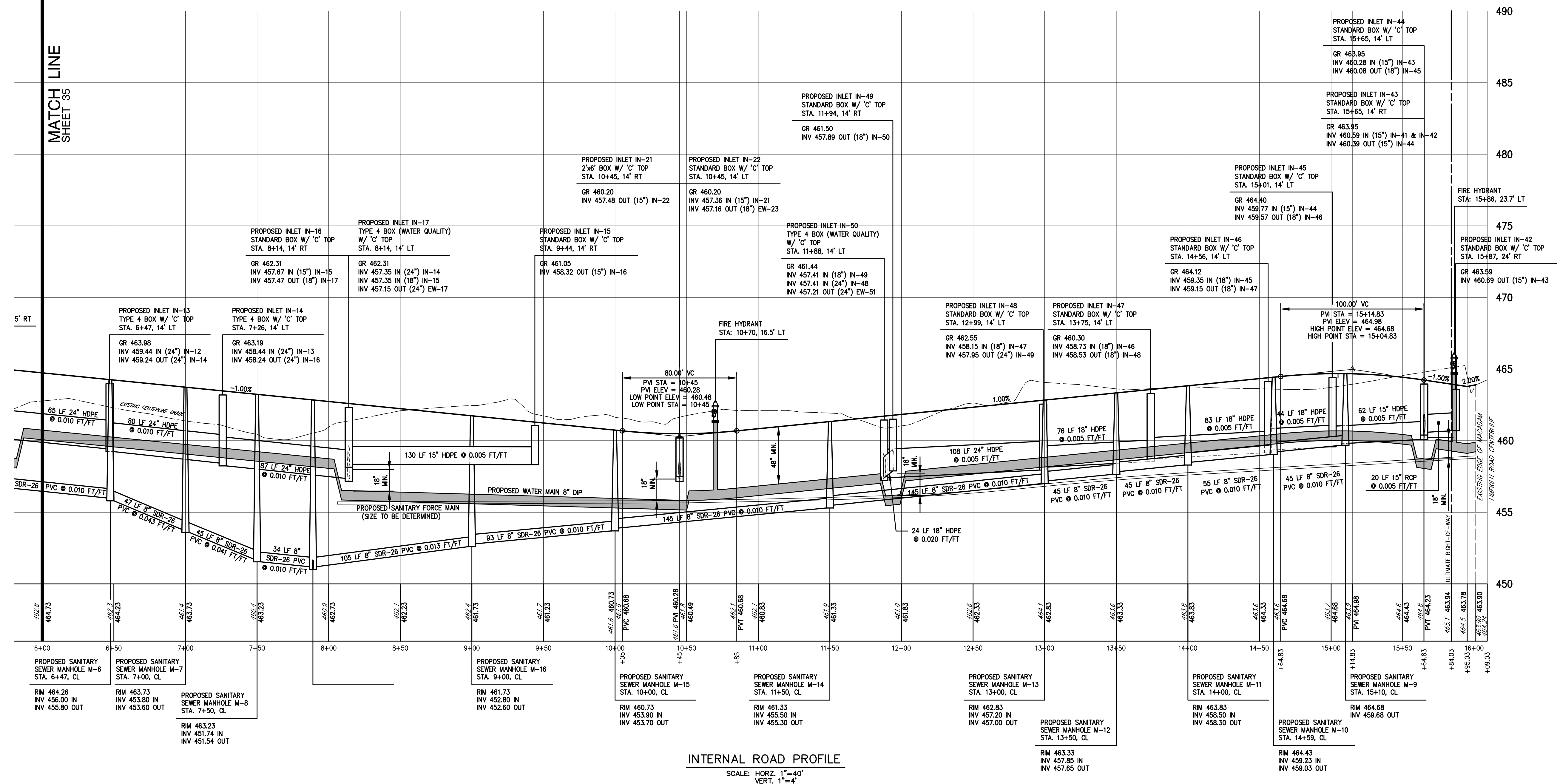
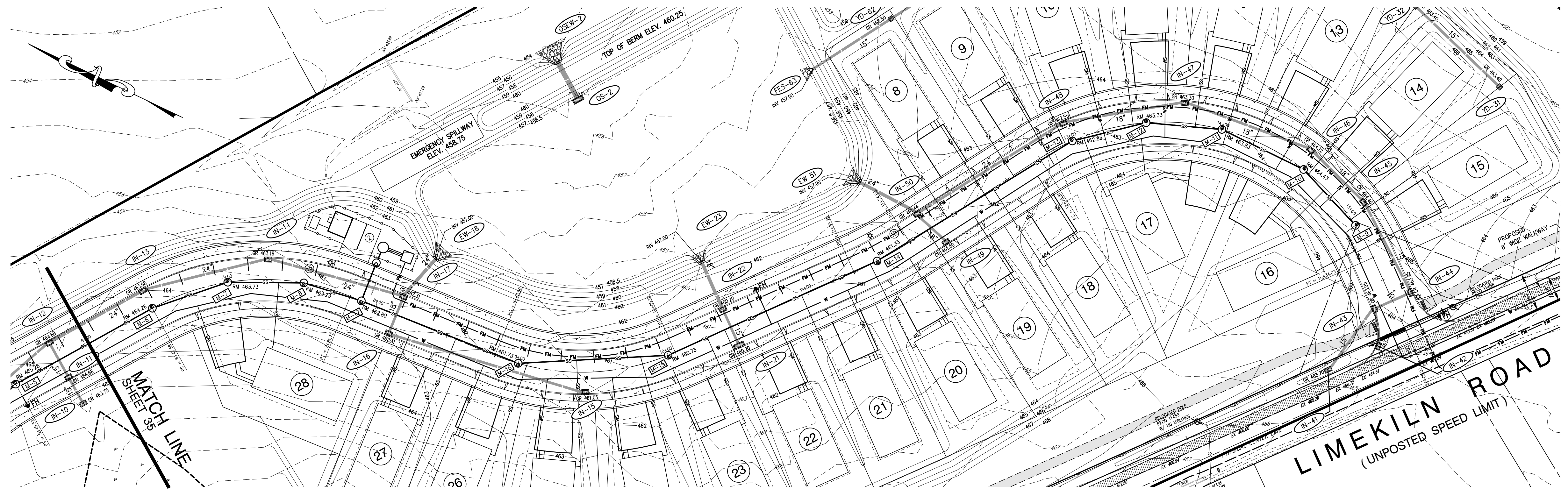
GALENA RESERVE MOBILE HOME PARK
PROPOSED INTERNAL ROAD
PROFILE (1 OF 2)
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
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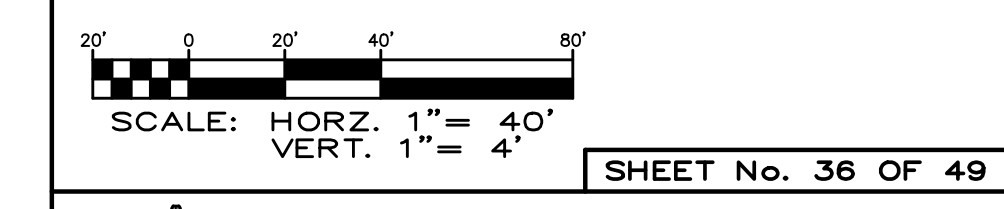
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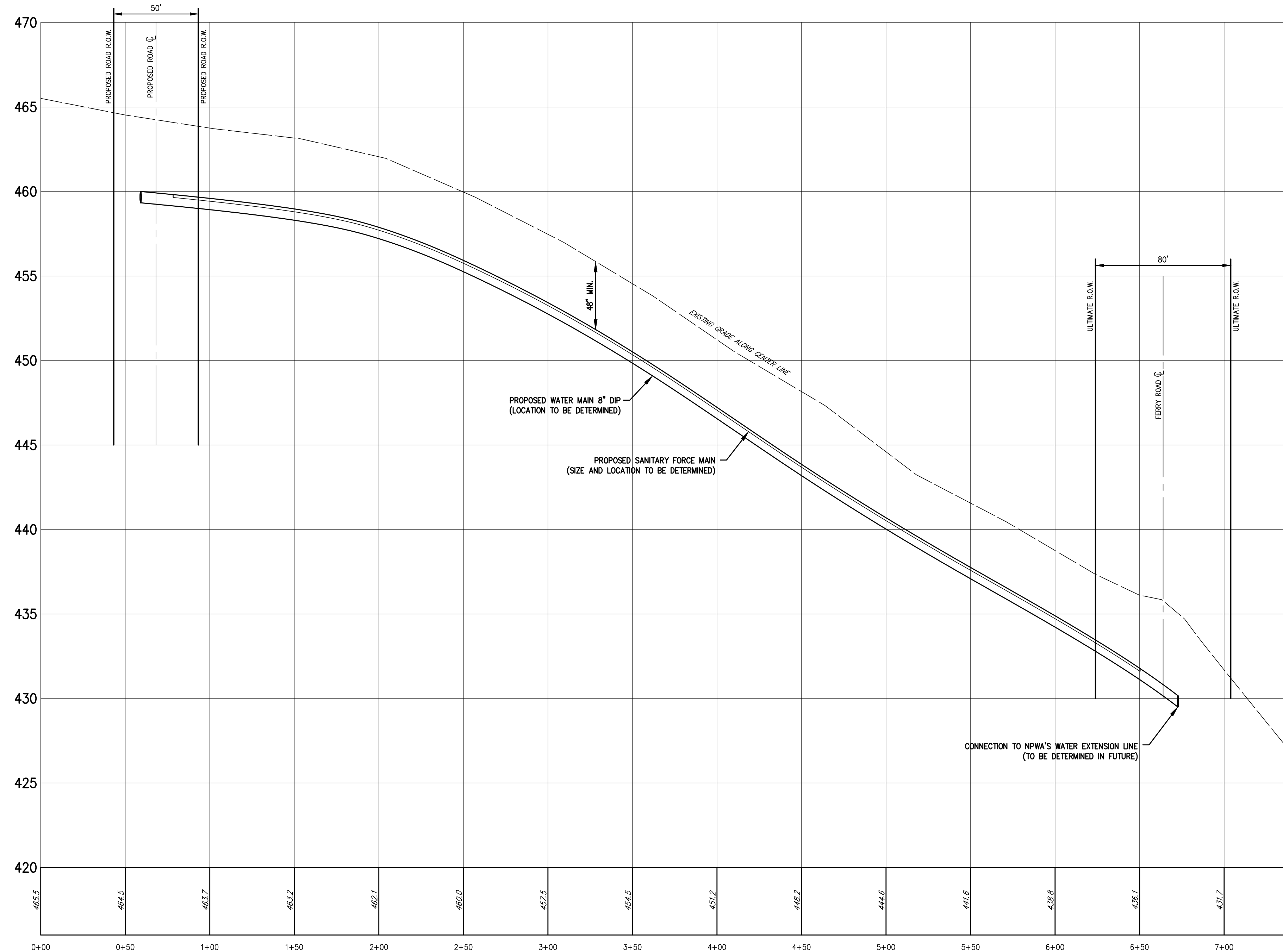
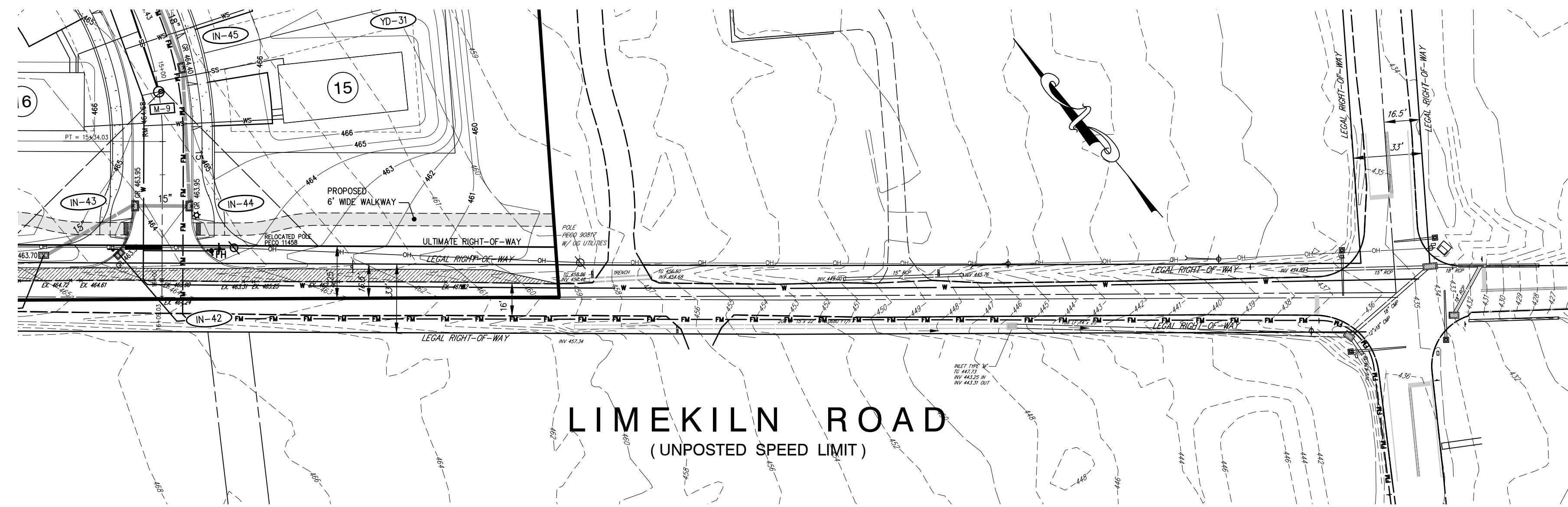
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
PROPOSED INTERNAL ROAD
PROFILE (2 OF 2)
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP





PROFILE OF LIMEKILN ROAD FROM PROPOSED INTERNAL ROAD EAST ENTRANCE TO INTERSECTION OF FERRY ROAD

SCALE: HORZ. 1"=40'
VERT. 1"=4'

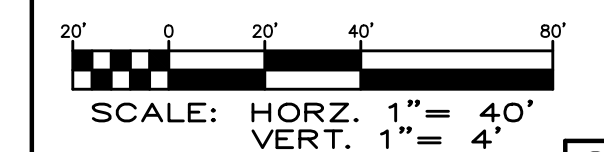
LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251550

REVISIONS	
DATE	DESCRIPTION

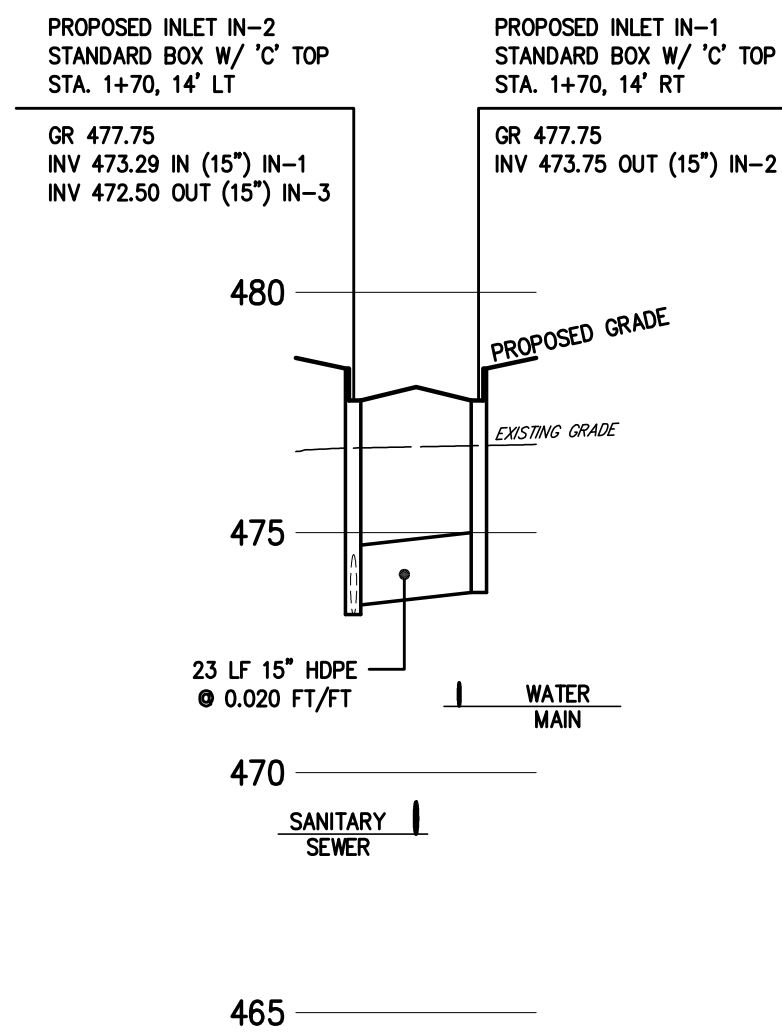
GALENA RESERVE MOBILE HOME PARK
LIMEKILN ROAD PROFILE
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

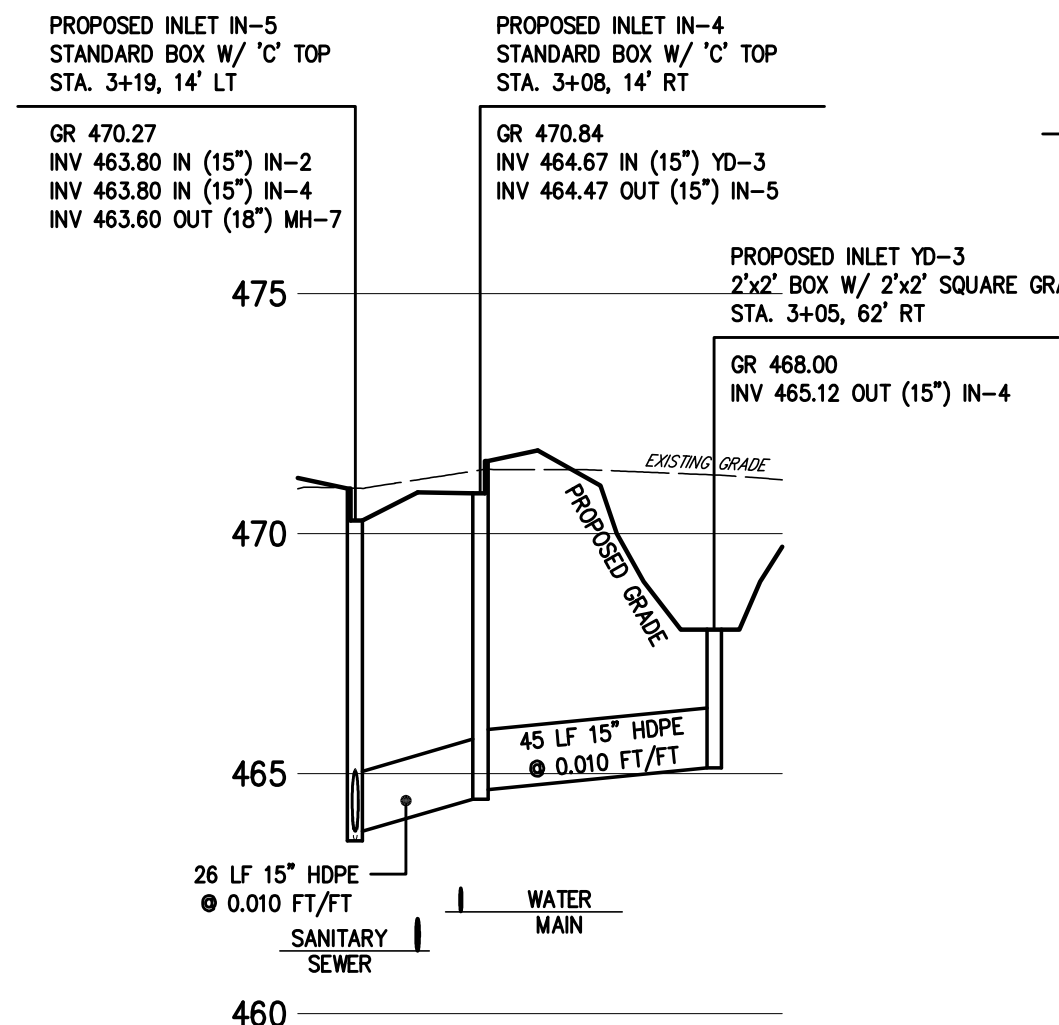
SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP



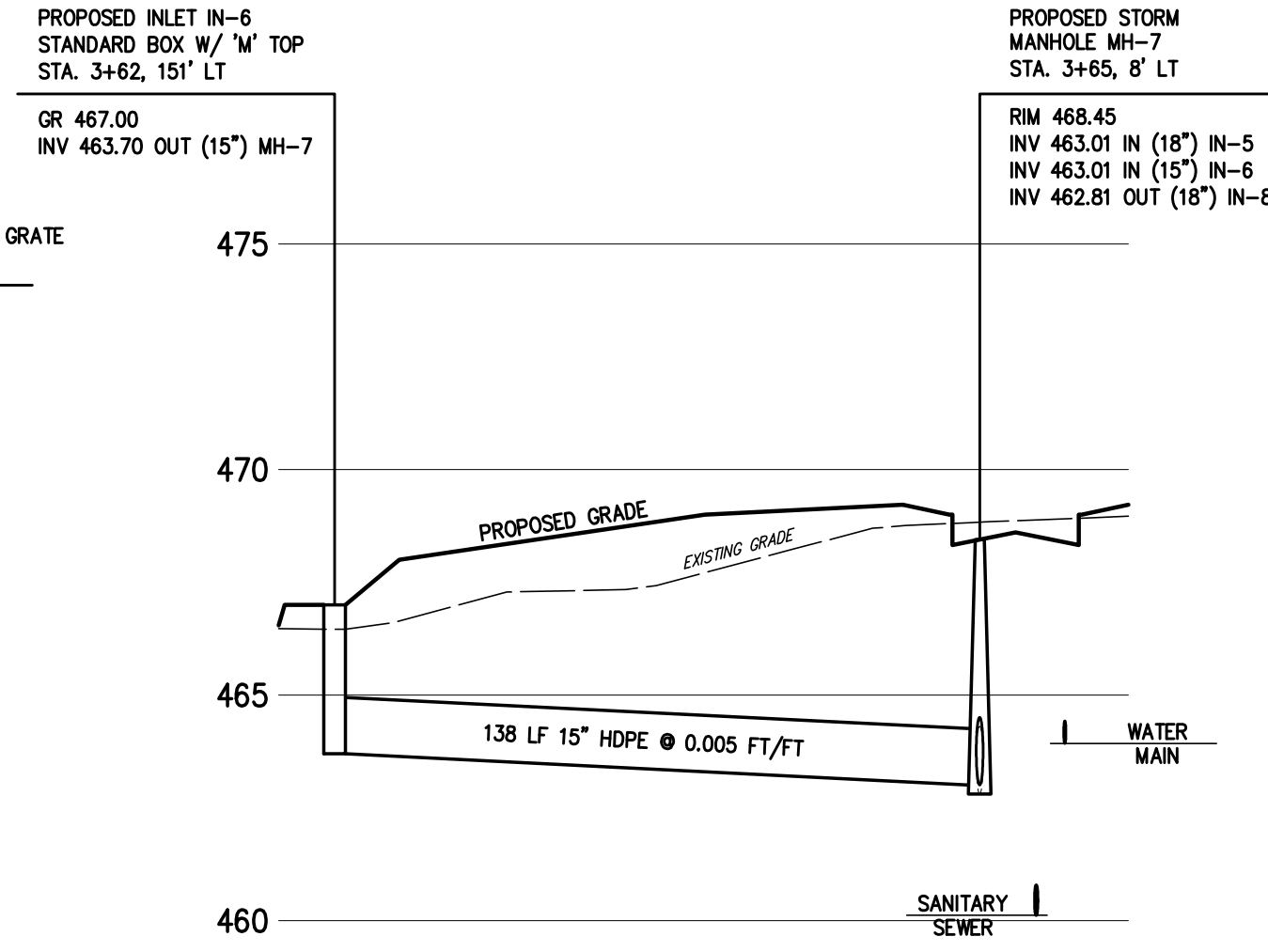
SHEET No. 37 OF 49



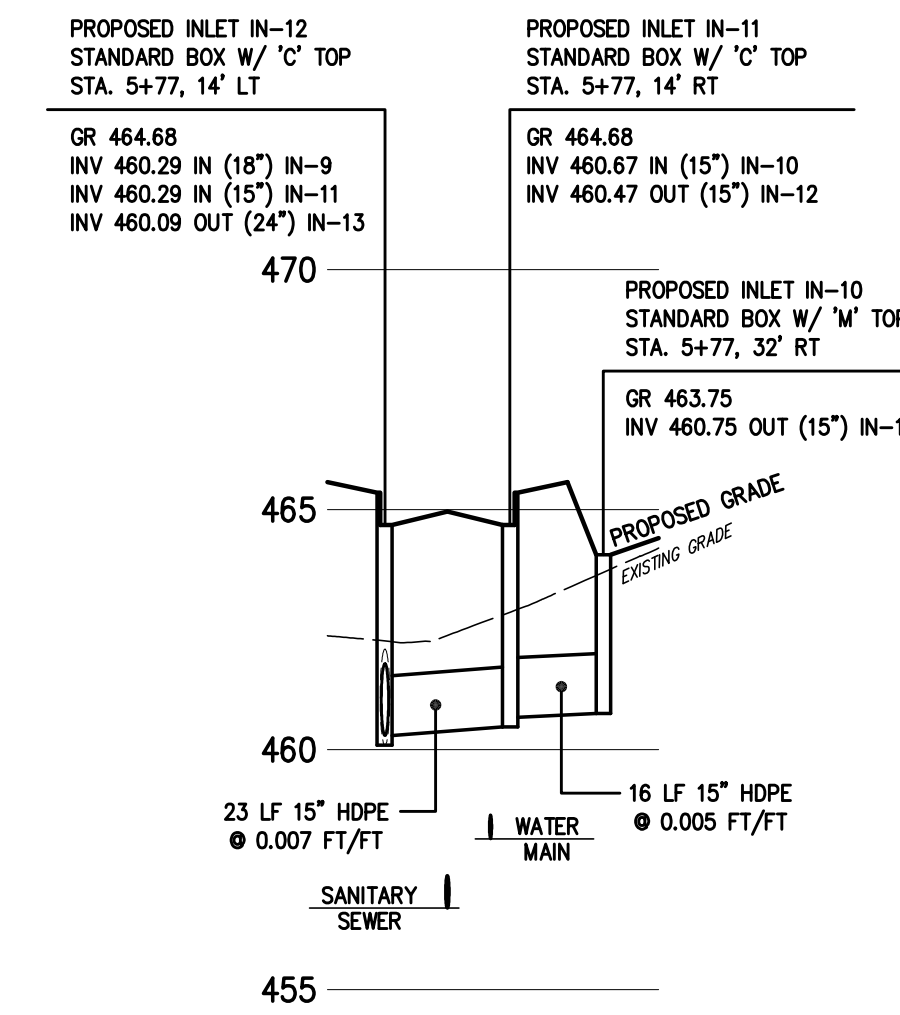
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PROPOSED INLET IN-2
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



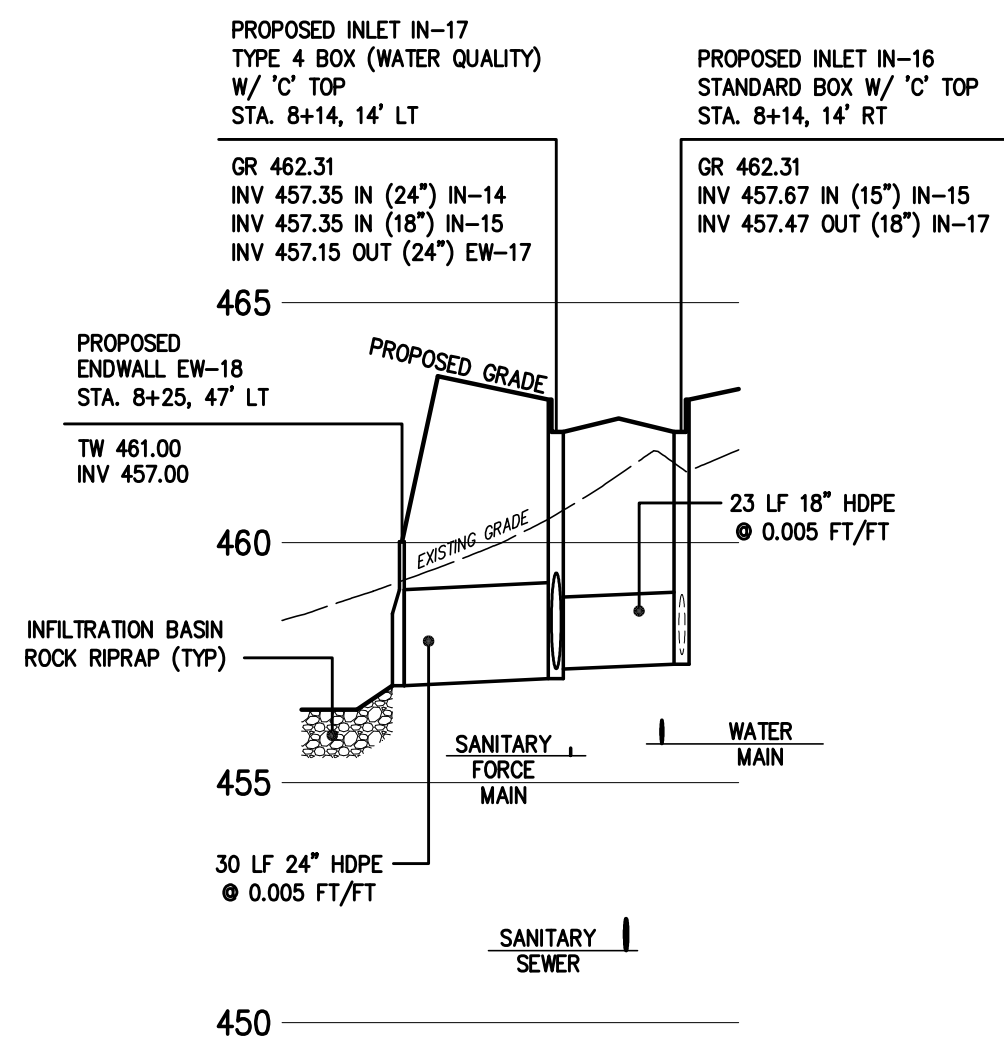
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PROPOSED INLET IN-5
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



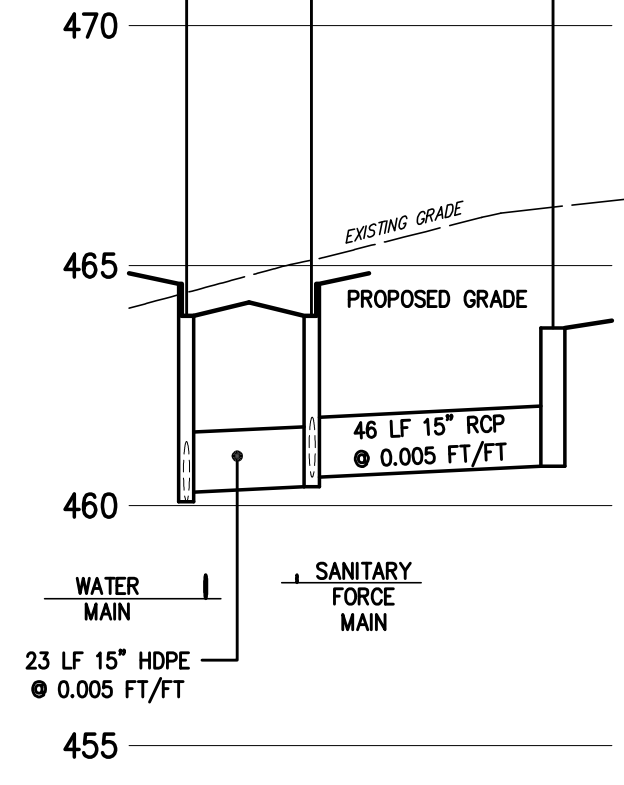
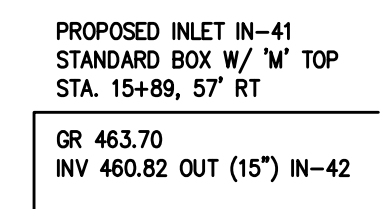
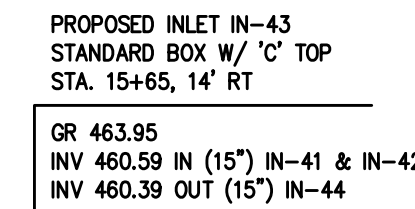
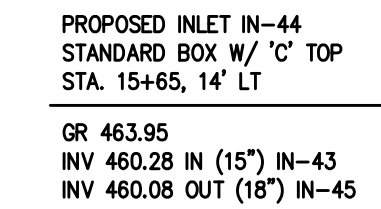
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PROPOSED MANHOLE MH-7
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



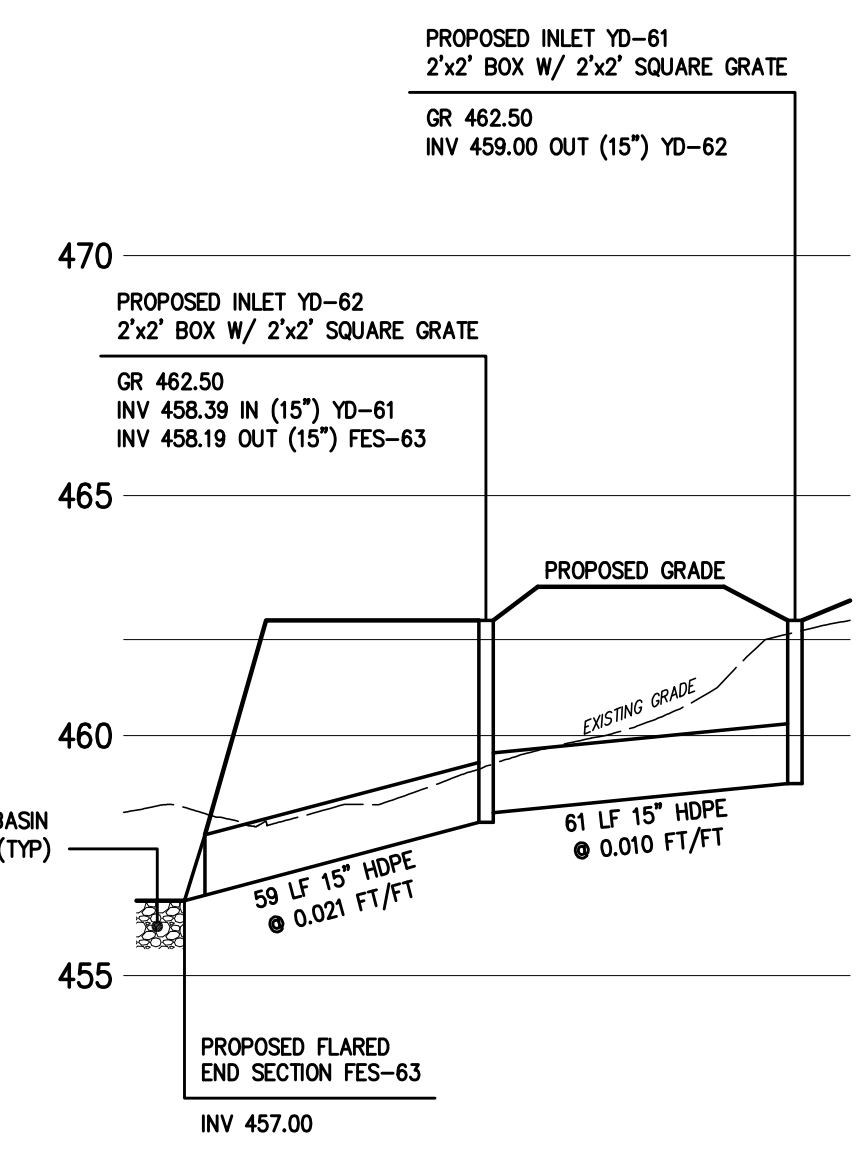
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PROPOSED INLET IN-12
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



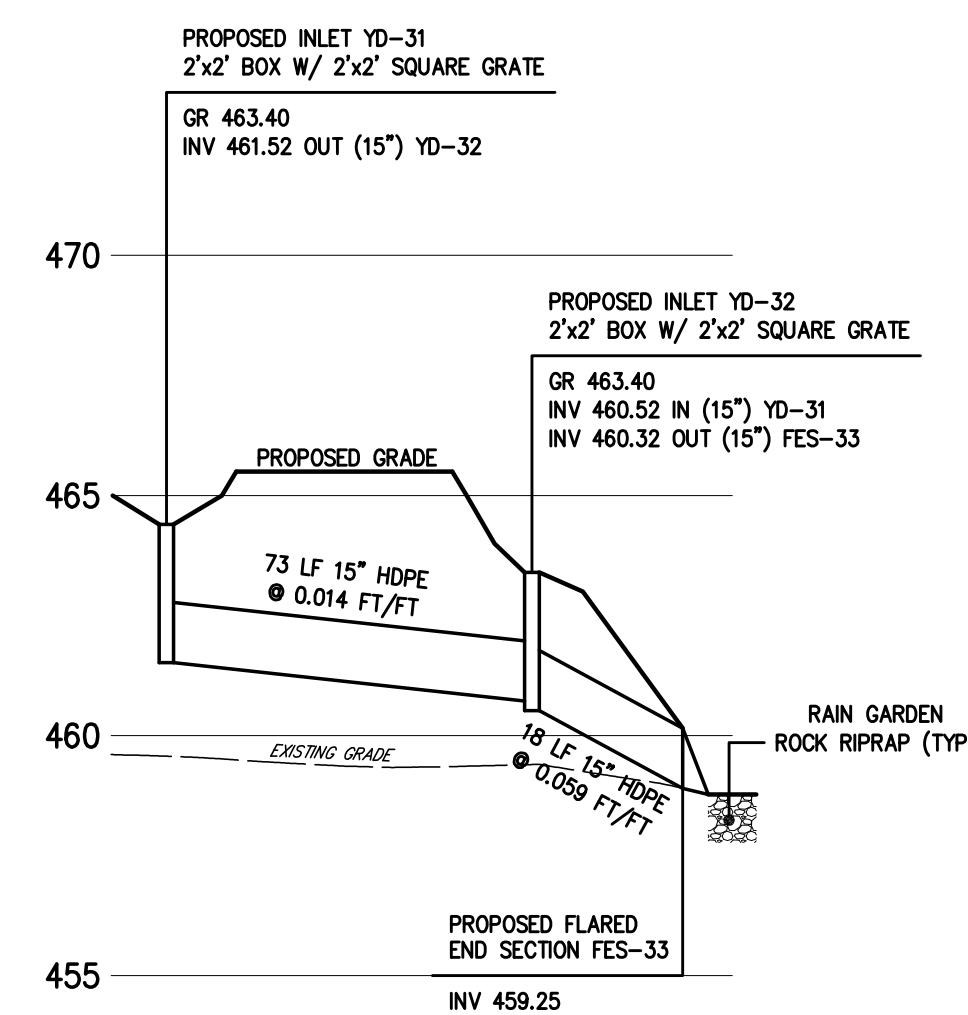
PROPOSED INLET IN-16 TO
PROPOSED ENDWALL EW-18
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



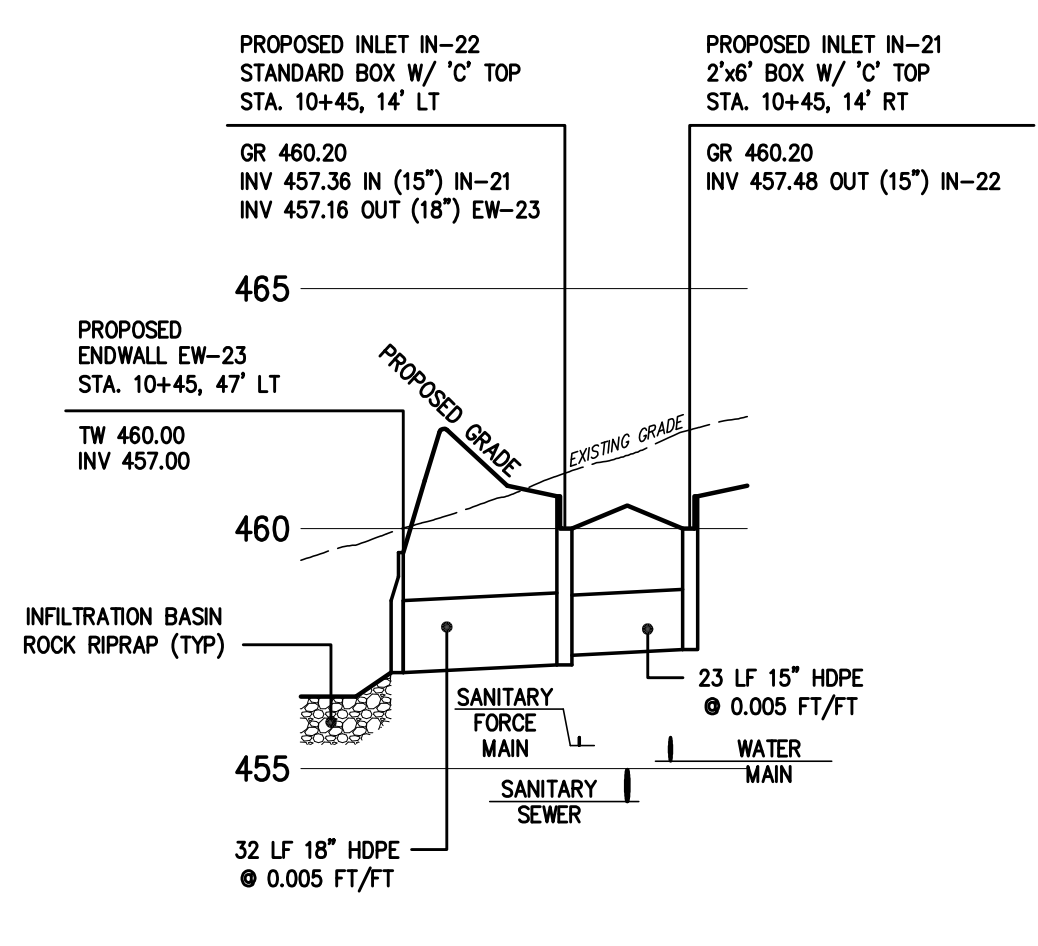
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PROPOSED INLET IN-44
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



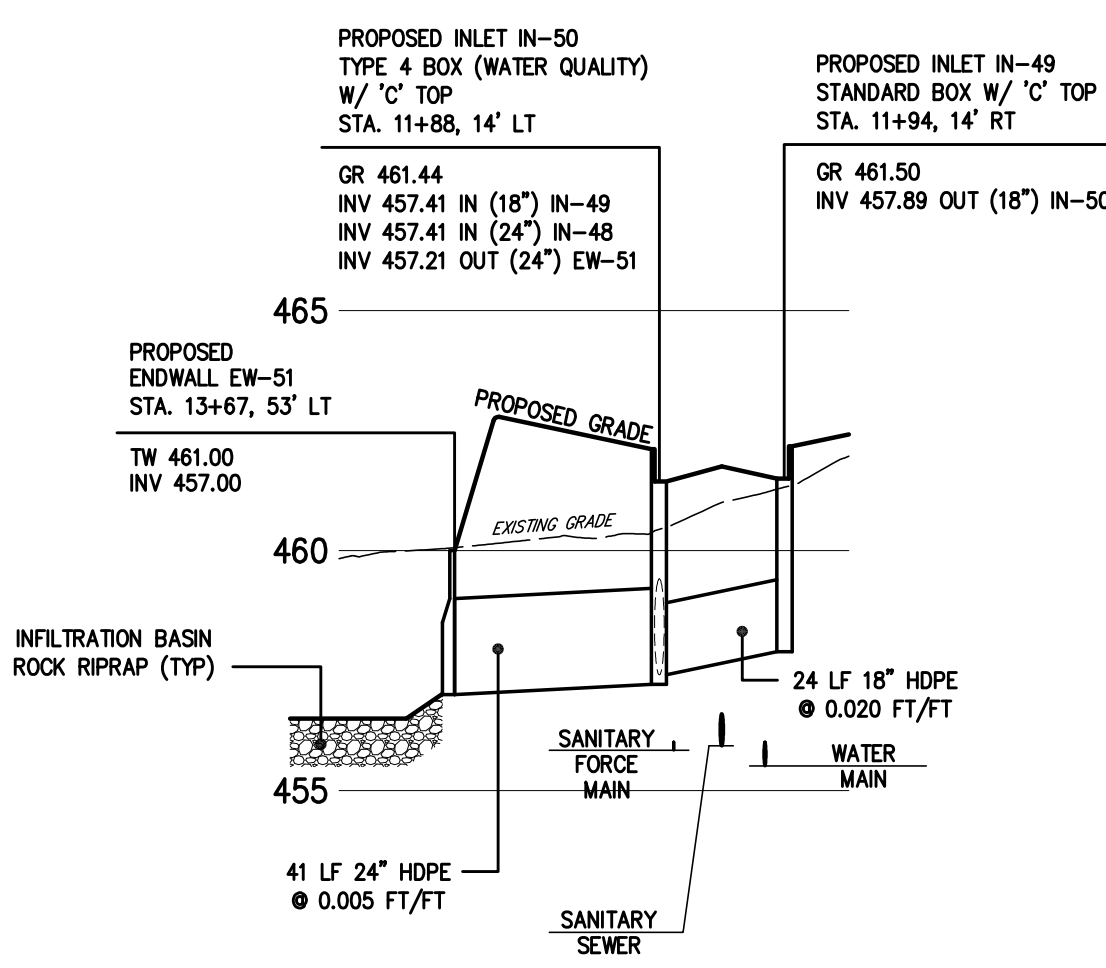
PROPOSED YARD DRAIN YD-61 TO
PROPOSED FLARED END SECTION FES-63
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



PROPOSED YARD DRAIN YD-31 TO
PROPOSED FLARED END SECTION FES-33
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



PROPOSED INLET IN-21 TO
PROPOSED ENDWALL EW-23
SCALE: HORIZ. 1"=40'
VERT. 1"=4'



PROPOSED INLET IN-48 TO
PROPOSED ENDWALL EW-51
SCALE: HORIZ. 1"=40'
VERT. 1"=4'

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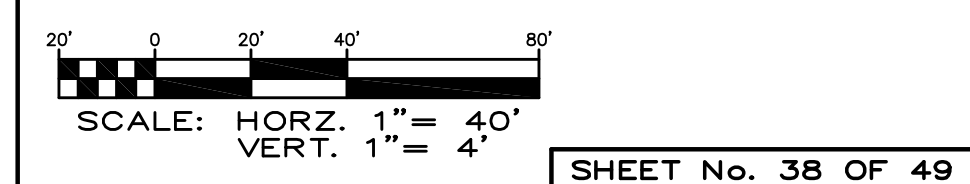
LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 201832515500

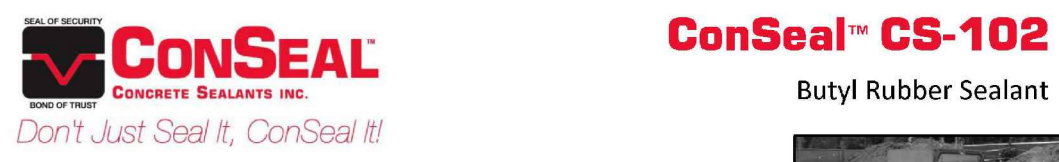
REVISIONS	
DATE	DESCRIPTION

**GALENA RESERVE MOBILE HOME PARK
STORM SEWER PROFILES**
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND





ConSeal™ CS-102

Butyl Rubber Sealant

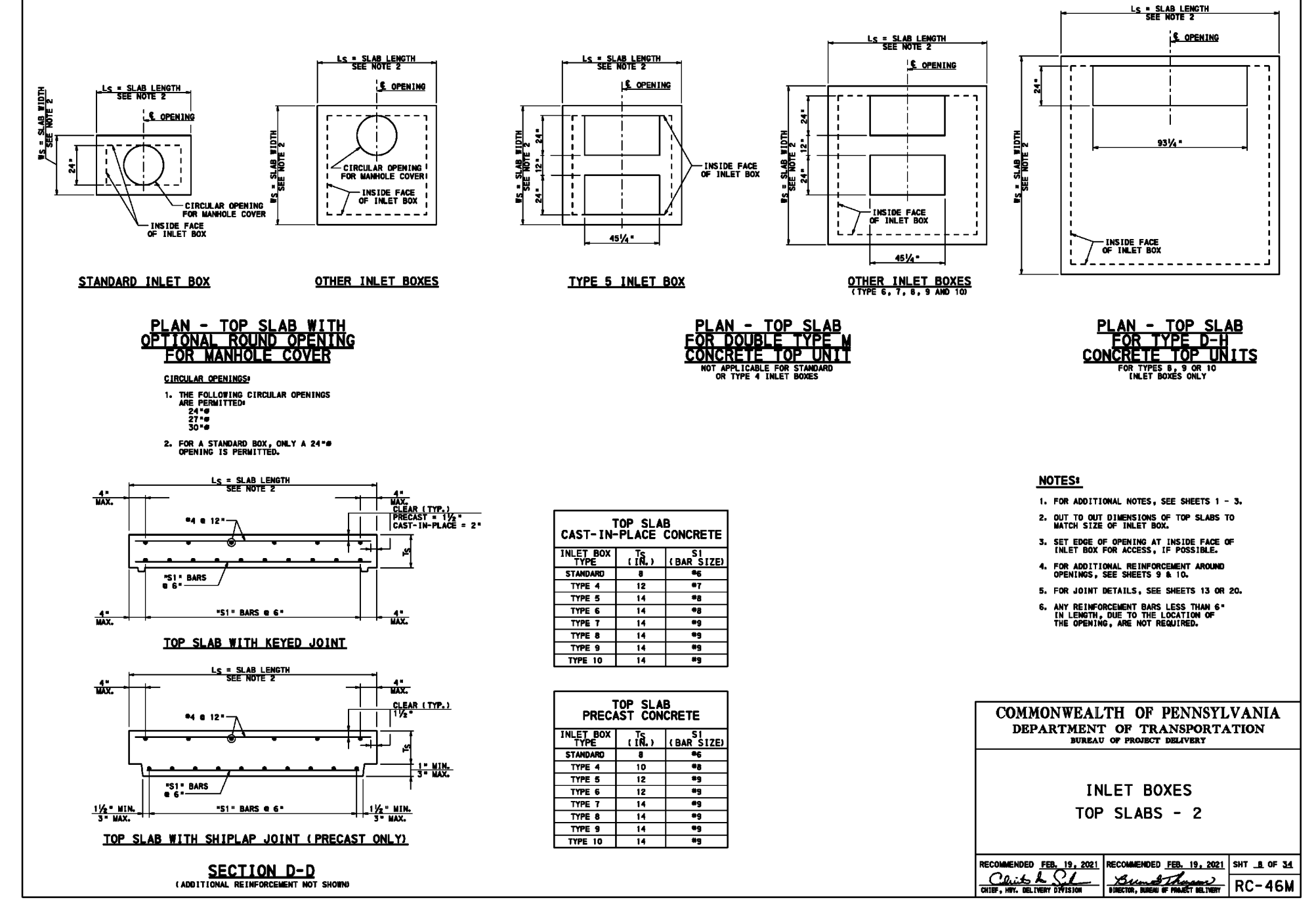
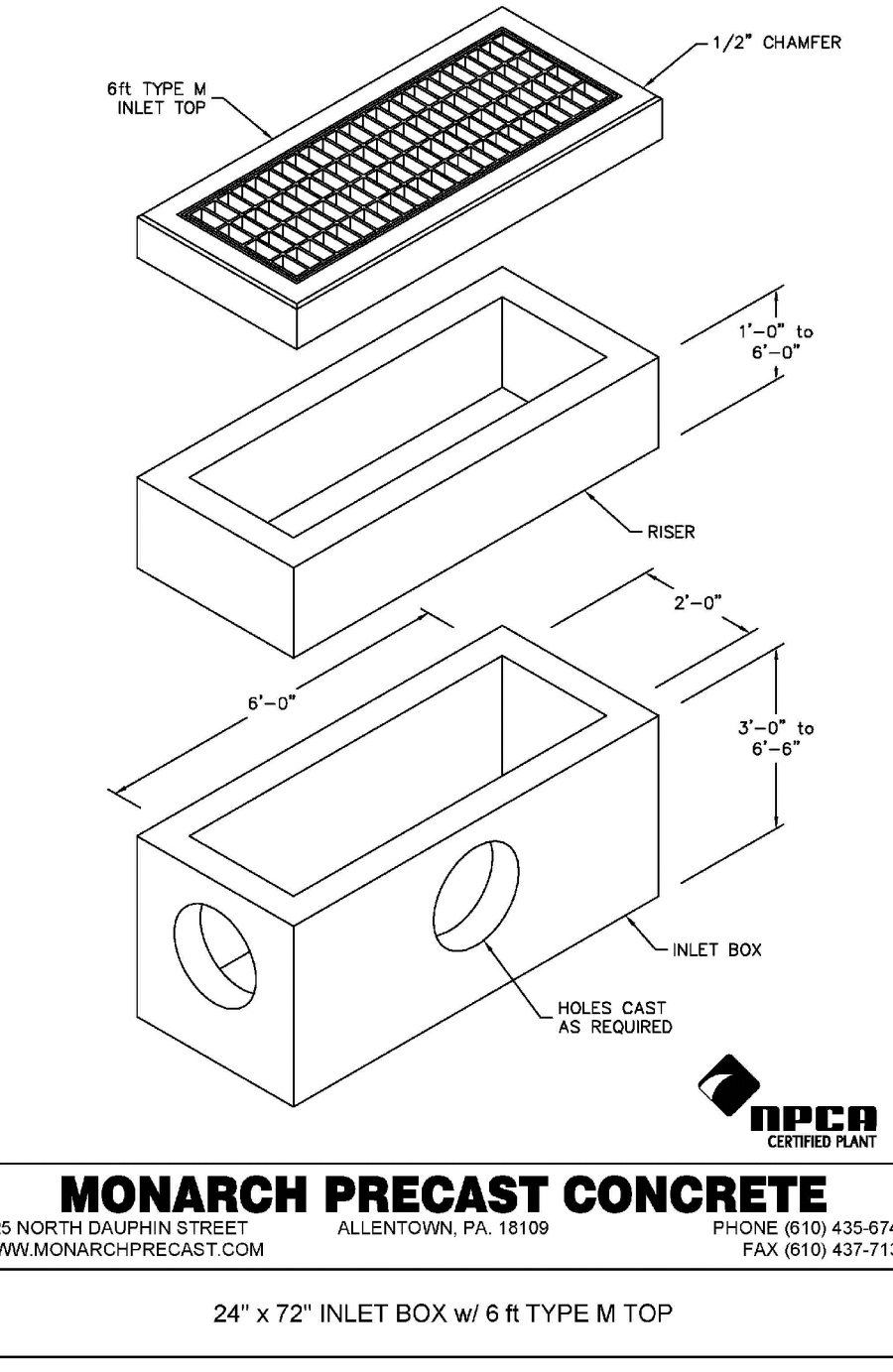
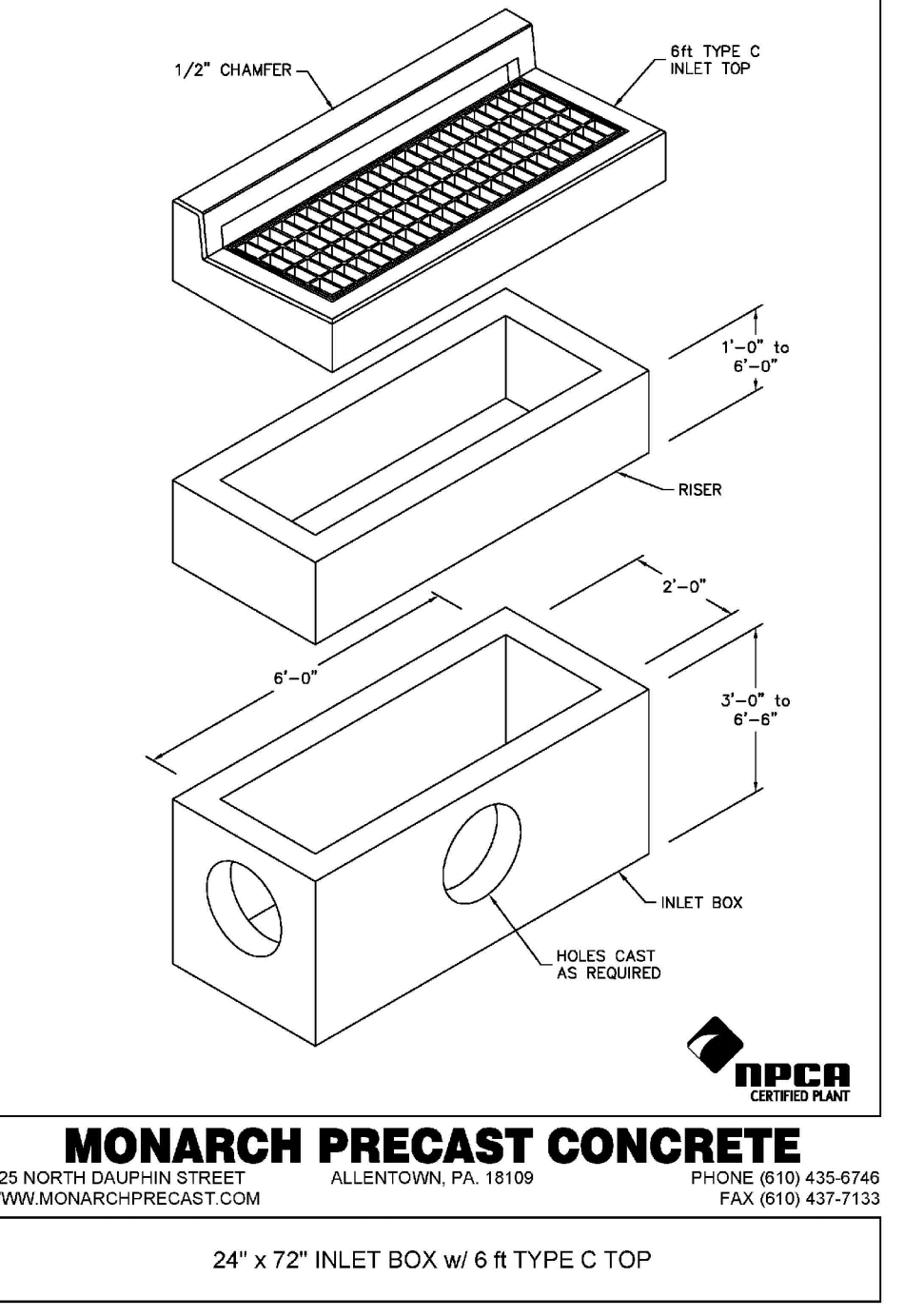
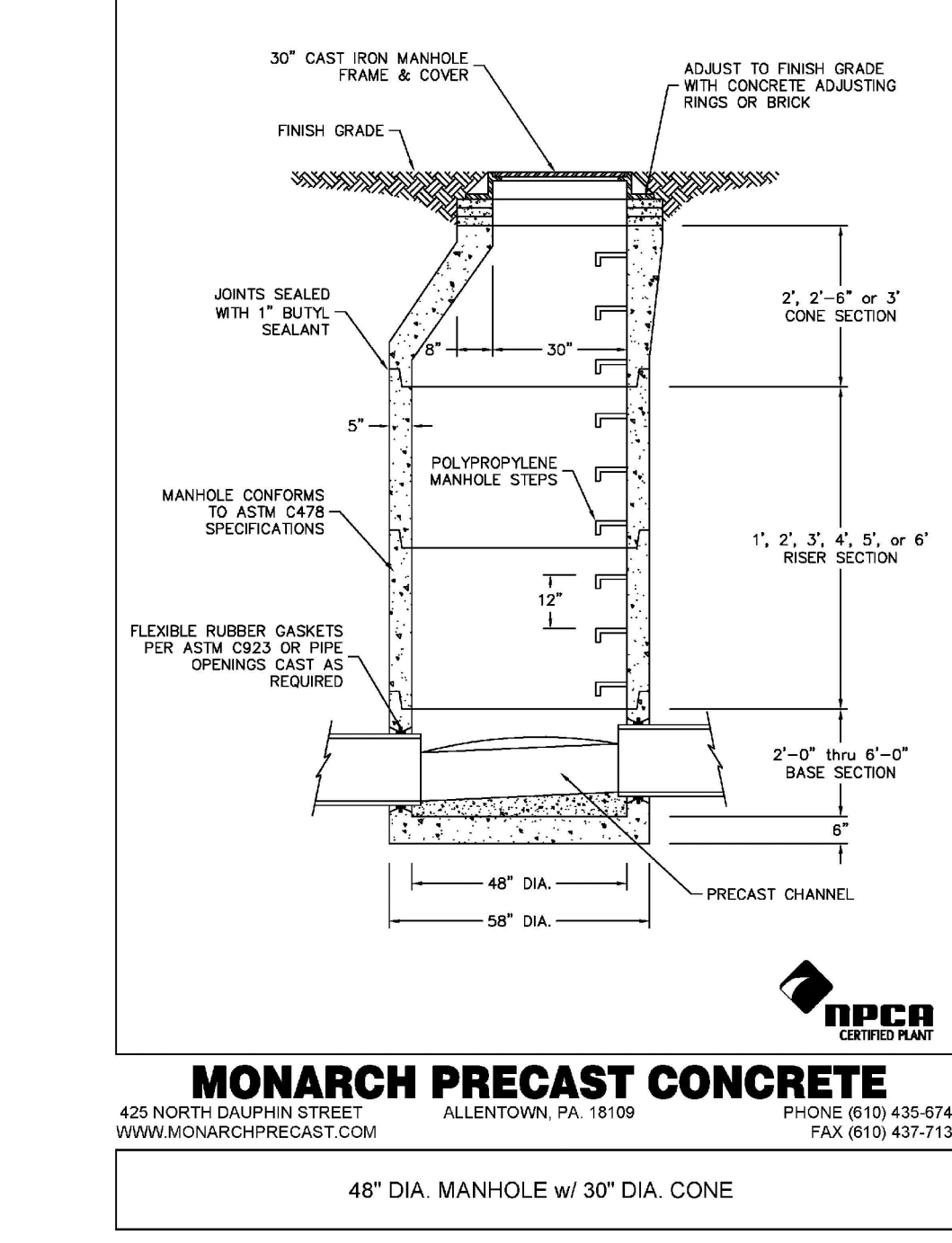
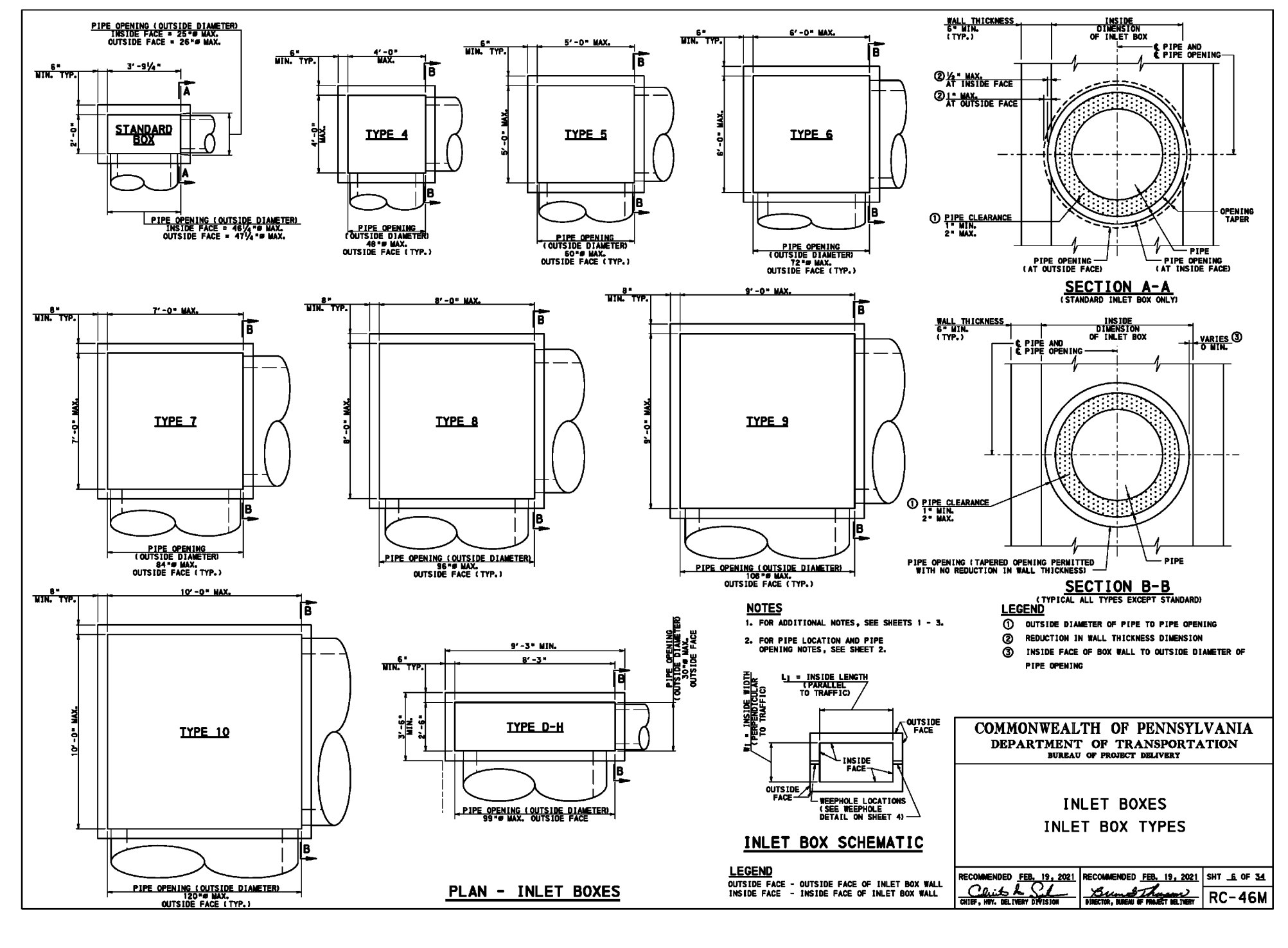
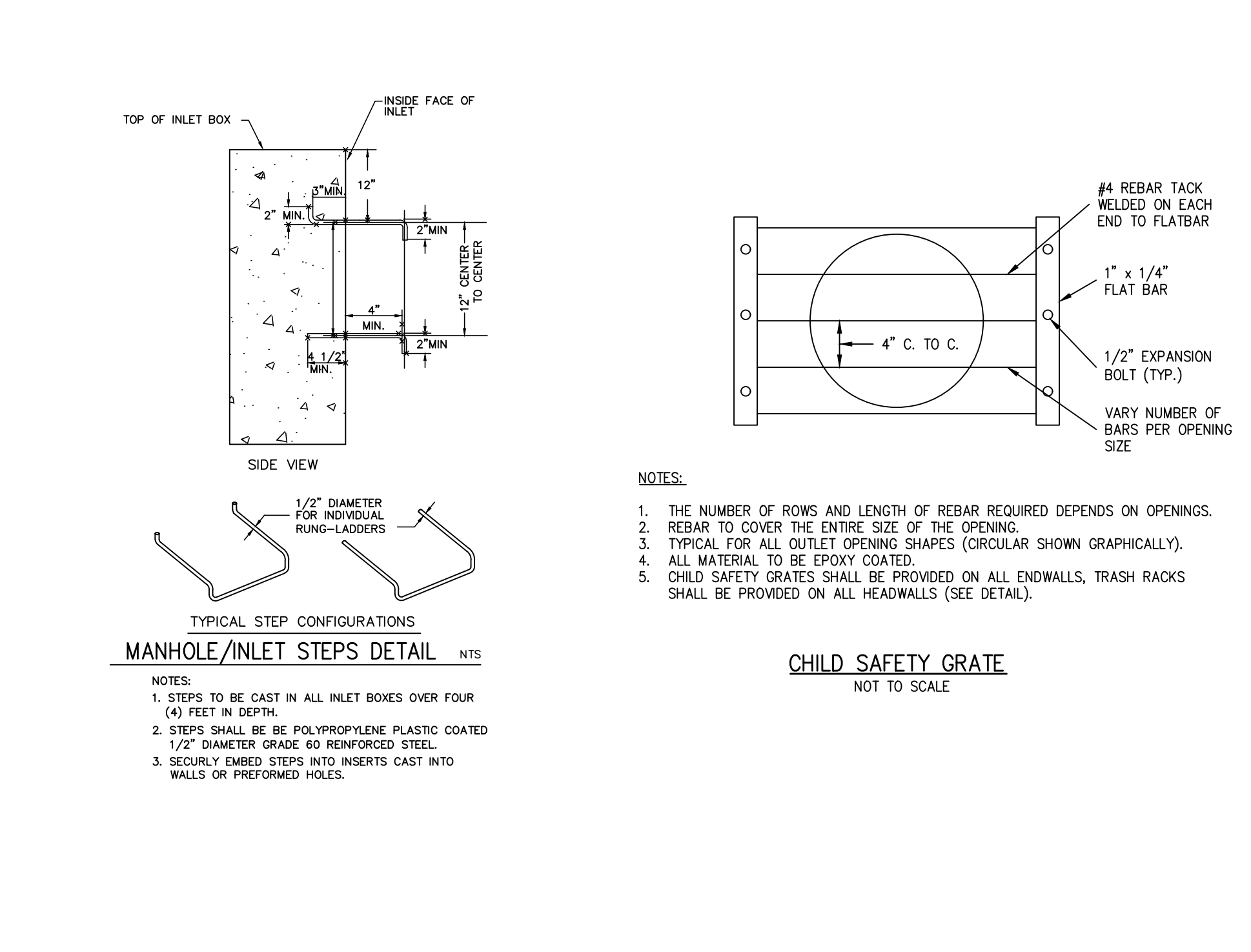
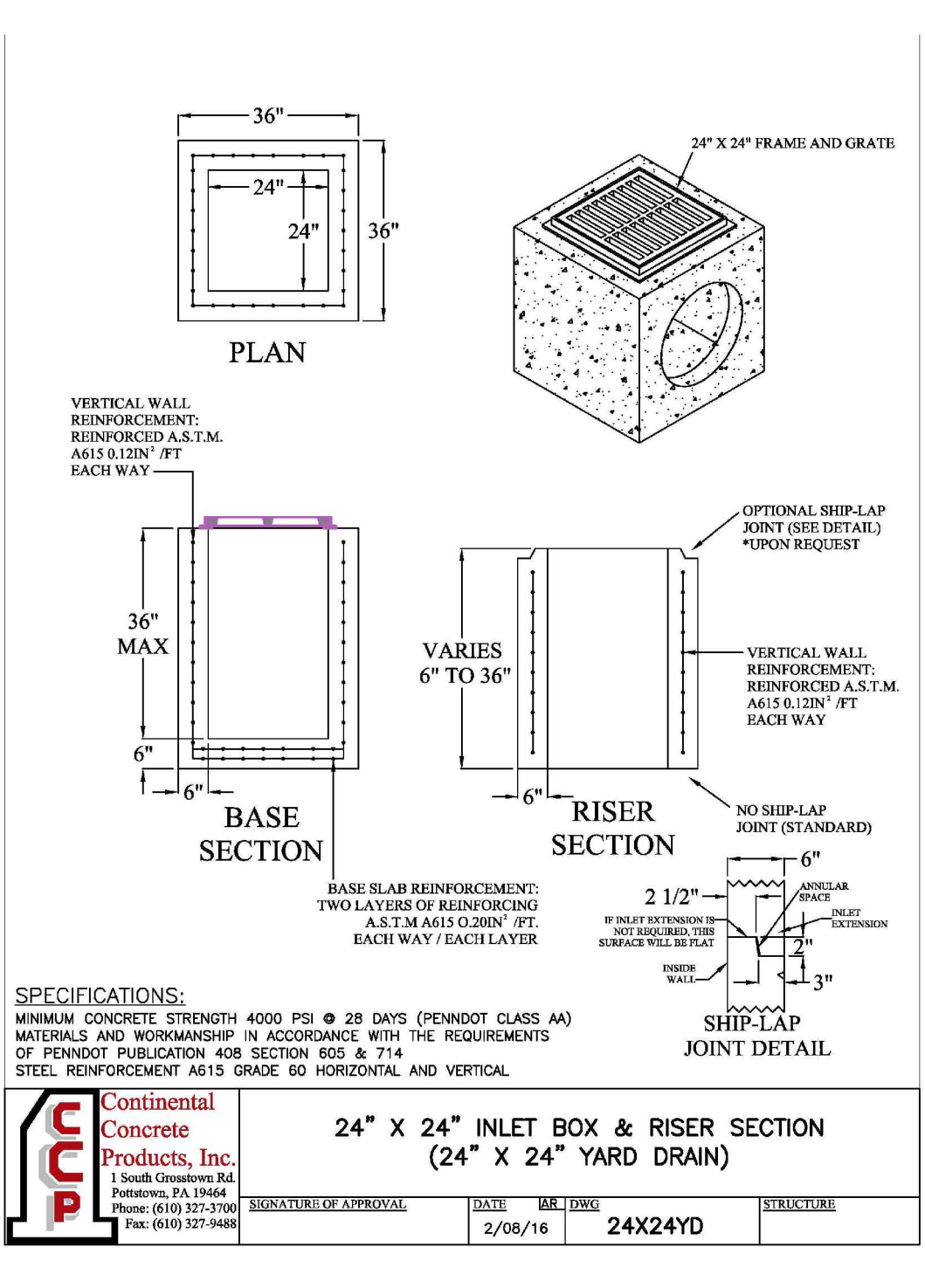
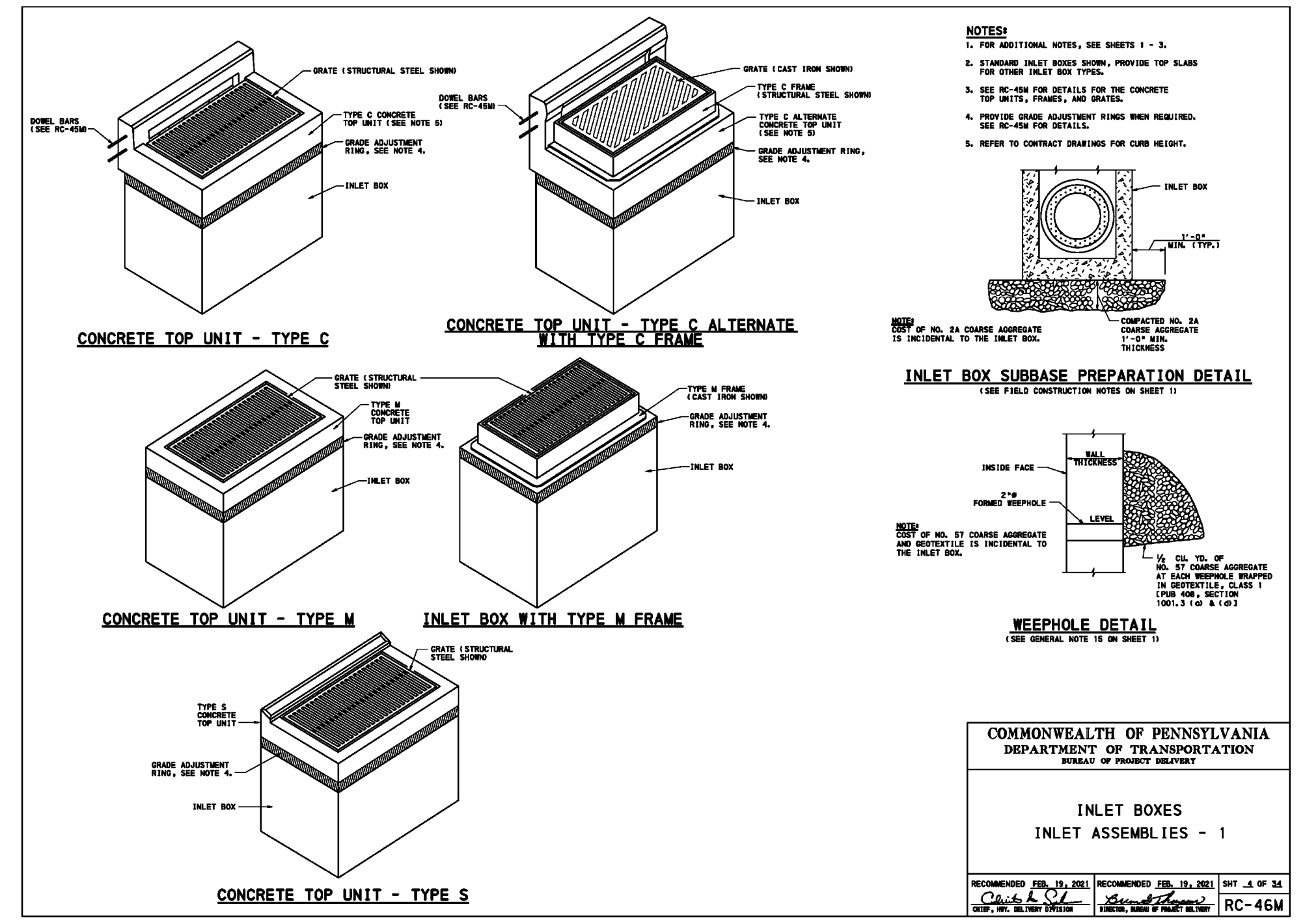
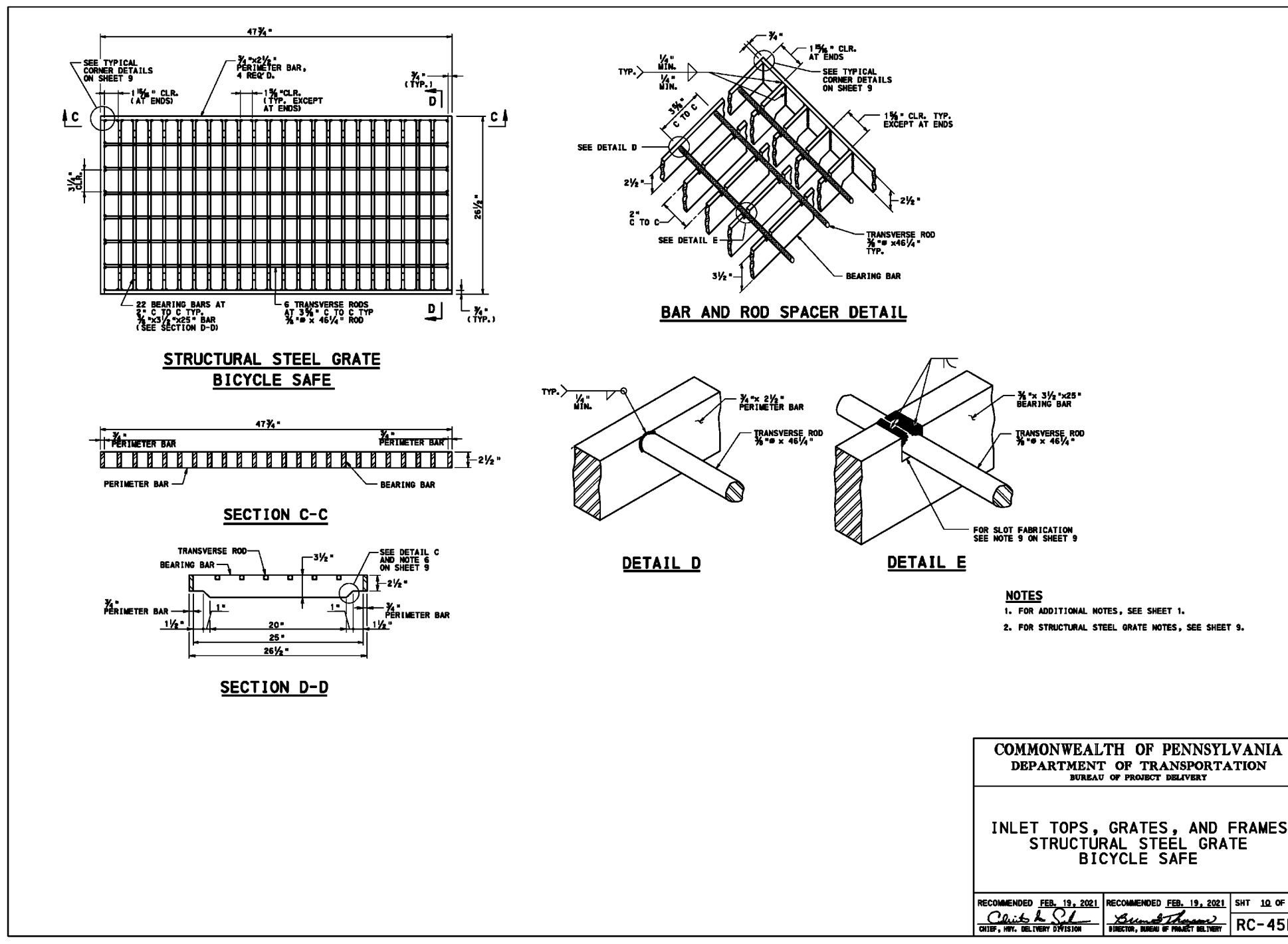


Butyl Rubber Sealant for All Precast Concrete Structures - Meets ASTM C990

- Applications**
For concrete joints in walls, floors, concrete pipe, vaults, box culverts, pipe tees, and vertical pipe structures. Not intended for use in expansion joints or joints that move.
- Sealing Properties**
- Provides permanent flexible watertight joints.
 - Low to high temperature resistance: 20°F to 120°F (-4°C to +48°C)
 - Resists abrasion: 500 F to 1000 F (260°C to +540°C)
 - Excellent chemical and mechanical adhesion to most surfaces.
 - Greater cohesive and adhesive strength.
 - Sealer (with 18% modulus) is suitable for use in expansion joints.
 - Controlled flow resistance for application ease.
 - Controlled cure rate.
 - Performance equivalent to 300% modulus sealant as set forth in ASTM C990 section 10.1.
 - Performance equivalent to 300% modulus sealant as set forth in ASTM C990 section 10.1.
 - Controlled cure rate.
 - Controlled cure rate.
- Physical Properties & Chemical Composition**
- | Description | Spec | Required | CS-102 |
|----------------------------|------------|--------------|-------------|
| Color | | | Black |
| Specific Gravity, 77°F | ASTM D711 | 1.15-1.00 | 1.22 |
| 25°C | | | |
| Compressive Strength, 77°F | ASTM D2113 | 5.0 min. | 10 |
| 25°C | | | |
| Compressive Strength, 77°F | ASTM D2171 | 55-100 lb/in | 55-60 lb/in |
| 25°C | | | |
| Modulus, 77°F (25°C) | ASTM D302 | 900°F min. | 375°F |
| 25°C | | | |
| Modulus, 77°F | ASTM D302 | 375°F min. | 475°F |
| 25°C | | | |
| Modulus, 77°F | ASTM D302 | 500 min. | 91% |
| 25°C | | | |
| Modulus, 77°F | ASTM D302 | 30% min. | 30% |
| 25°C | | | |
| Modulus, 77°F | ASTM D302 | 3% max. | 1.2% |
| 25°C | | | |
- Immersion Testing**
30 Day Immersion Testing: No visible deterioration when tested in 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated hydrogen chloride.
- One Year Immersion Testing**: No visible deterioration when tested in 5% Formic Acid, 5% Hydrochloric Acid, 5% Hydrofluoric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide, and 5% Hydrogen Hydroxide.
- Installation Guidelines**
The following procedures should be followed for optimum sealant performance:
- Join the sealant into one continuous strand by overlapping the ends together where they meet. Do not stretch the sealant.
 - A minimum compression of 20% is required. Greater than 50% compression is optional. It may take 15-20 minutes for the sealant to fully compress depending on the ambient temperature and the weight being applied.
 - Remove any dirt, debris, forming, or concrete high points which could keep the sealant from seating properly.
 - If necessary, a part primer can be applied to improve sealant adhesion. Adhere primer to dry substrate only.
 - DO NOT PLACE ANY JOINTS WITHIN 12" OF A CORNER.
- Reference installation instructions for "Butyl Sealing Tapes" for more detailed instructions.

Warranty
This limited warranty is void where prohibited by law and does not apply to sealant used in expansion joints or joints that move. The sealant manufacturer shall not be held responsible for sealant used in expansion joints or joints that move. The sealant manufacturer shall not be held responsible for sealant used in expansion joints or joints that move. The sealant manufacturer shall not be held responsible for sealant used in expansion joints or joints that move.

© 2020 Continental Concrete Products, Inc.
CONCRETE SEALANTS, INC. • 9325 State Route 201 • Top City, OH 43071, USA • www.concrete-sealants.com
Tel: (614) 327-3366 • Fax: (614) 327-3366 • Phone: (614) 327-3366 • Fax: (614) 327-3366



GENERAL NOTES:

- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408 OR NEW BRITAIN TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
- ALL CONTRACTORS PROVIDING CONSTRUCTION SERVICES AT THIS SITE (OR SITE RELATED CONSTRUCTION) SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REGULATIONS. URWILER AND WALTER, INC., NEW BRITAIN TOWNSHIP, ITS AGENTS AND ASSIGNS WILL NOT BE RESPONSIBLE FOR ANY DAMAGES OR LIABILITY ARISING FROM THE FAILURE OF ANY PARTY TO CONFIRM WITH THE APPLICABLE OSHA STANDARDS AND REGULATIONS.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251550

REVISIONS

DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
STORM SEWER DETAIL PLAN
PREPARED FOR
RHG PROPERTIES, LLC.
SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND

SCALE: AS SHOWN

SHEET No. 39 OF 49

URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUNNYSIDE, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com

FLARED END SECTIONS

PART #	PIPE SIZE	A	B(MAX)	H	L	W
1015NP	10 in (250 mm)	3.8 in (95 mm)	10.0 in (254 mm)	6.5 in (165 mm)	28.0 in (711 mm)	34.5 in (876 mm)
1215NP	12 & 15 (300 & 375 mm)	6.5 in (165 mm)	10.0 in (254 mm)	6.5 in (165 mm)	25.0 in (635 mm)	29.0 in (737 mm)
1810NP	18 in (450 mm)	7.5 in (191 mm)	15.0 in (381 mm)	6.5 in (165 mm)	32.0 in (813 mm)	35.0 in (893 mm)
2410NP	24 in (600 mm)	7.5 in (191 mm)	18.0 in (457 mm)	6.5 in (165 mm)	36.0 in (914 mm)	45.0 in (1143 mm)
3015NP	30 in (750 mm)	7.5 in (191 mm)	12.0 in (305 mm)	8.8 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)
3615NP	36 in (900 mm)	7.5 in (191 mm)	25.0 in (635 mm)	8.8 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.

ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #	6070
DRAWN BY	JOB
APPROVED BY	JOB
REVISIONS	TJR 6/7/2016

TABLE A (ENGLISH)

T-1 2.0 EMBANKMENT SLOPES

* For 1:1 slope

* For 2:1 slope

* For 3:1 slope

* For 4:1 slope

* For 5:1 slope

* For 6:1 slope

* For 7:1 slope

* For 8:1 slope

* For 9:1 slope

* For 10:1 slope

TABLE A (METRIC)

T-1 2.0 EMBANKMENT SLOPES

* For 1:1 slope

* For 2:1 slope

* For 3:1 slope

* For 4:1 slope

* For 5:1 slope

* For 6:1 slope

* For 7:1 slope

* For 8:1 slope

* For 9:1 slope

* For 10:1 slope

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ENDWALLS
CAST-IN-PLACE & PRECAST

RECOMMENDED (BY 3-2008) RECOMMENDED (BY 3-2008) INT. 2 OF 2
DATE 03/25/07 DATE 03/25/07
BY J. J. WILSON BY J. J. WILSON
RC-31M

GENERAL NOTES:

- ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408 OR NEW BRITAIN TOWNSHIP ORDINANCES, WHICHEVER IS GREATER. ALL INTERPRETATIONS SHALL BE MADE BY THE TOWNSHIP.
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SPLASH BLOCK DETAIL

NTS

NOTES:

- Refer to Stormwater Management Manual BMP L603.b and GSI Figure 005 for setbacks.
- Splash block shall be concrete, plastic, or similar material. Commercially available splash blocks generally meet design criteria.
- Rock pad shall consist of 4" cobbles per WSDOT 9-03.11(2) or ballast meeting WSDOT 9-03.9(1).

MANHOLE FRAME & COVER DETAIL

SCALE: N.T.S.

EAST JORDAN IRON WORKS, INC.	DATE
P.O. BOX 438	08/08/03
EAST JORDAN, PA 17027	APPROVED
TEL: 717-251-1100	DATE
FAX: 717-251-1100	08/08/03
DEW	DATE
APPROVED	DATE
SPECIAL LETTERED COVER	
PRODUCT NO.	00103918
CATALOG NO.	1040A
REF. PRODUCT DRAWING	00103919
EST. WT.	COVER: 150 LBS 68kg
OPEN AREA	N/A
MATL. SPEC.	COVER - GRAY IRON ASTM A48 CL35
LOAD RATING	HEAVY DUTY

MANHOLE FRAME & COVER DETAIL

SCALE: N.T.S.

EAST JORDAN IRON WORKS, INC.	DATE
P.O. BOX 438	03/27/03
EAST JORDAN, PA 17027	APPROVED
TEL: 717-251-1100	DATE
FAX: 717-251-1100	03/27/03
DEW	DATE
APPROVED	DATE
SPECIAL LETTERED COVER	
PRODUCT NO.	00700360
CATALOG NO.	7003PL1
REF. PRODUCT DRAWING	7001PL1
EST. WT.	PLATE: 20 LBS 9kg
OPEN AREA	N/A
MATL. SPEC.	PLATE - GRAY IRON ASTM A48 CL35
LOAD RATING	N/A

GALENA RESERVE MOBILE HOME PARK STORM SEWER DETAIL PLAN

PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND

SCALE: AS SHOWN

SWALE ROCK CHECK DAM

NTS

TROUT LOGO DETAIL

(TROUT LOGO TO BE CAST INTO ALL STORM SEWER INLET TOP UNITS) NTS

EAST JORDAN IRON WORKS, INC.	DATE
1-800-874-4100	03/27/03
DRAWN	DATE
JHS	03/27/03
APPROVED	DATE
PRODUCT NO.	00700160
CATALOG NO.	7001PL1
REF. PRODUCT NO.	700161
EST. WT.	PLATE: 20 LBS 9kg
OPEN AREA	N/A
MATL. SPEC.	PLATE - GRAY IRON ASTM A48 CL35
LOAD RATING	N/A

TROUT LOGO DETAIL

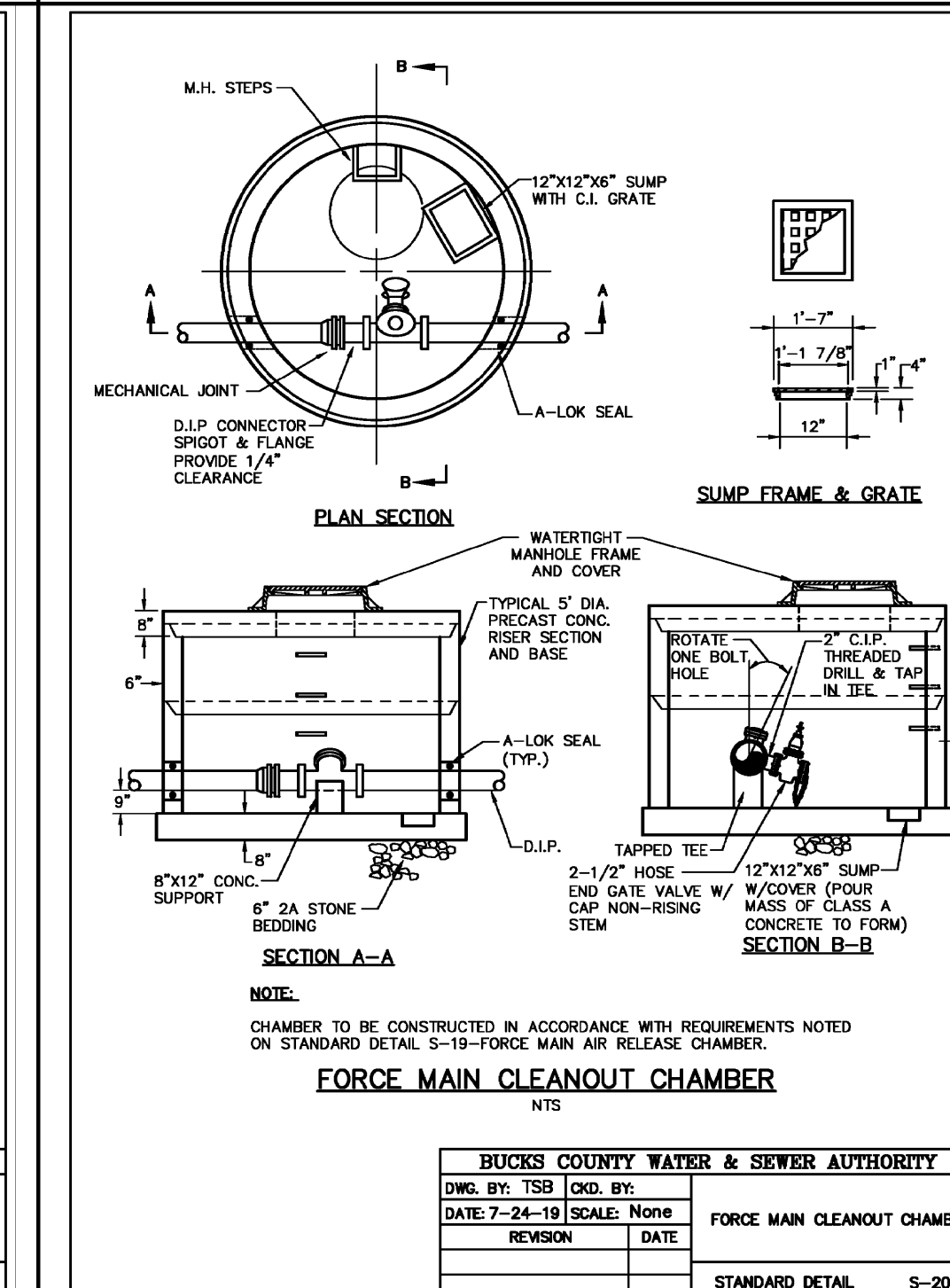
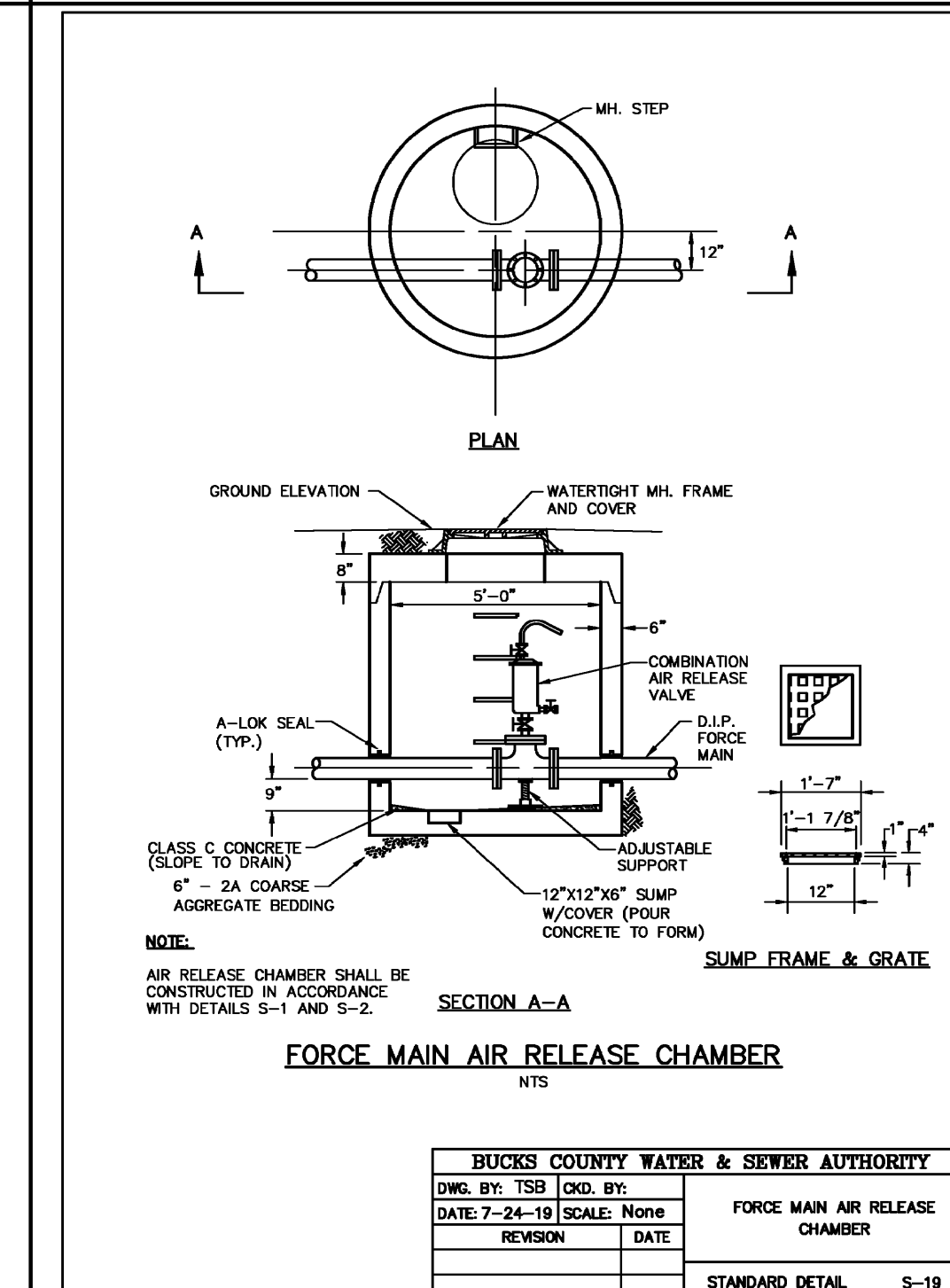
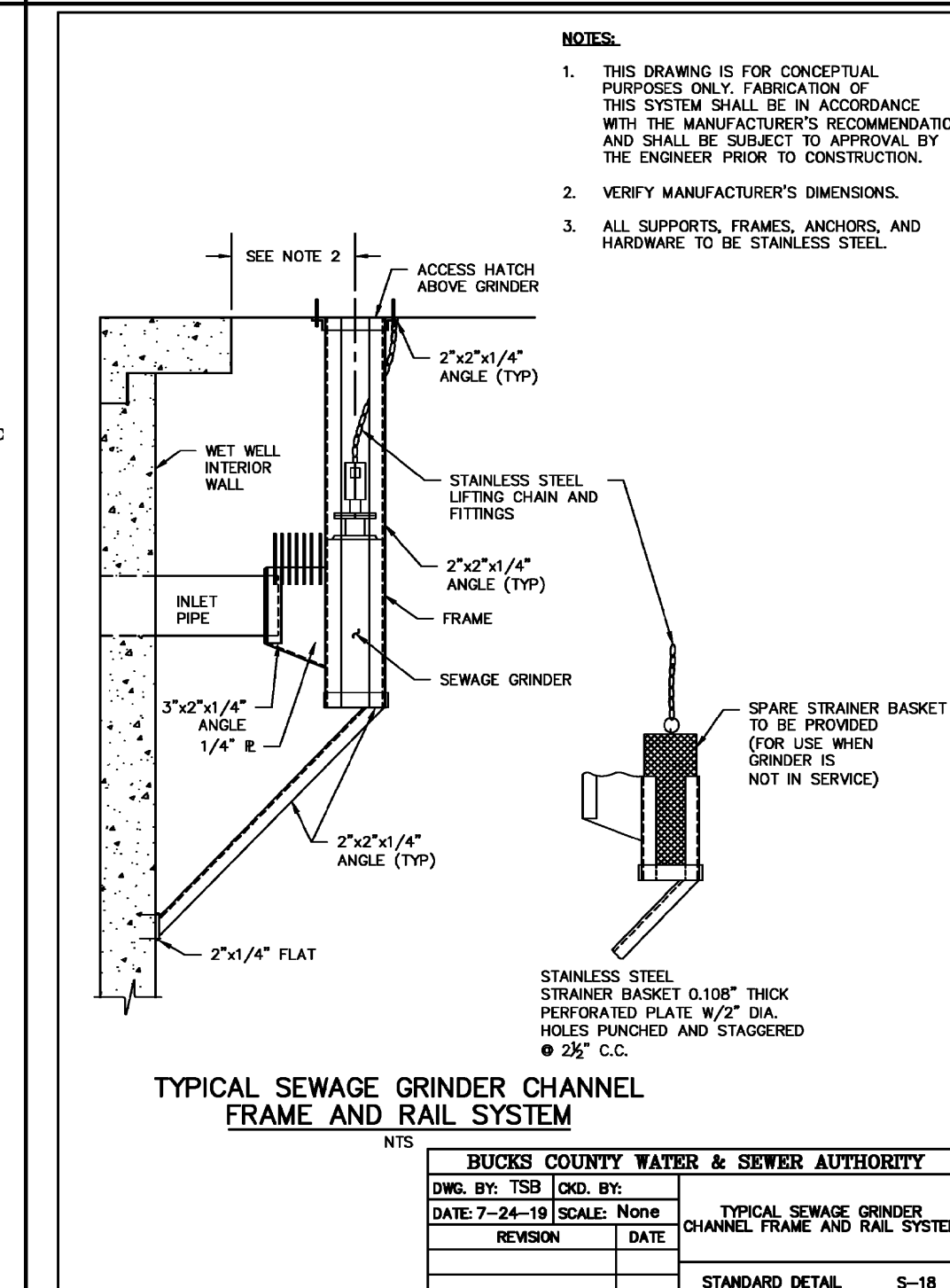
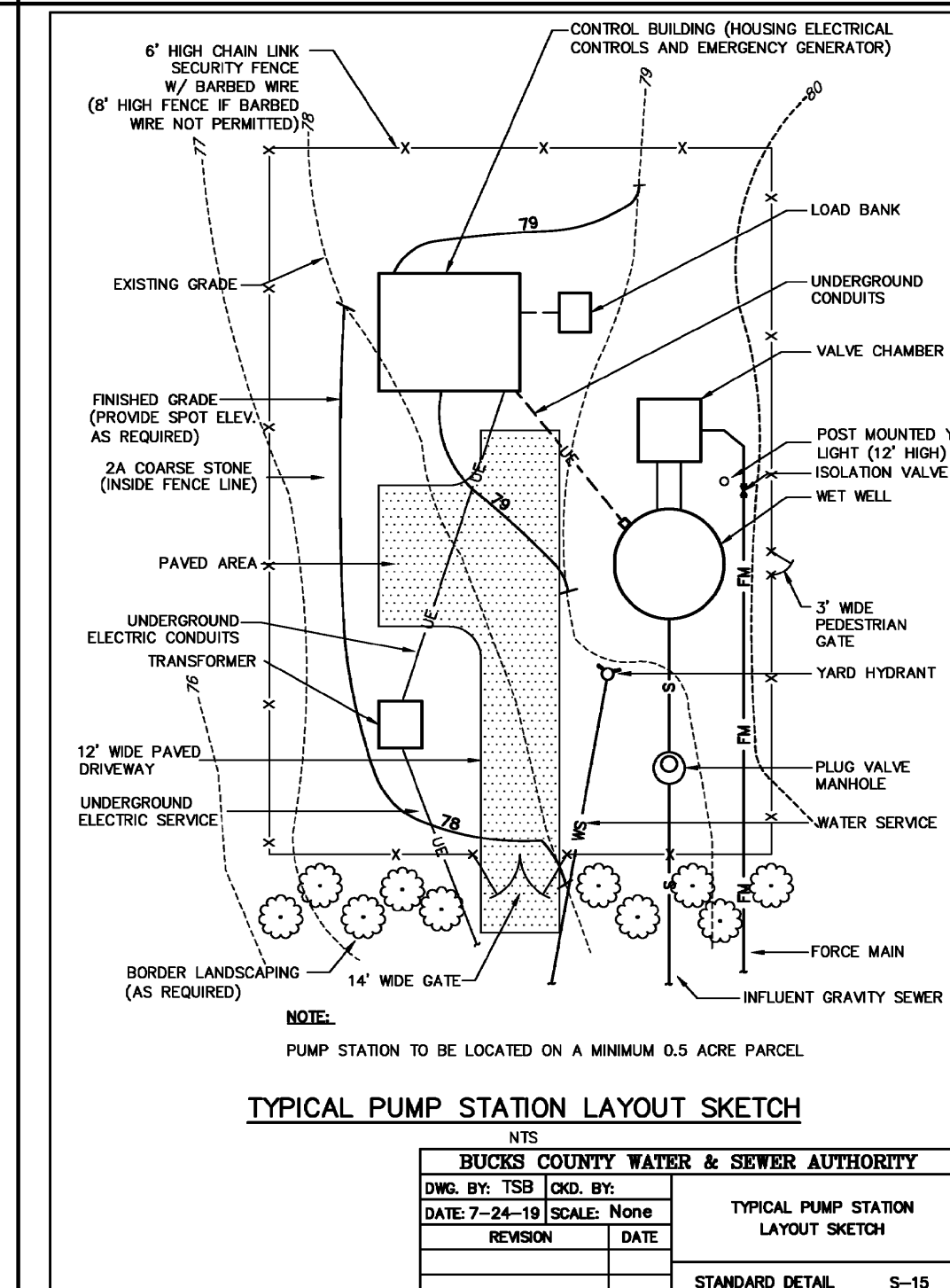
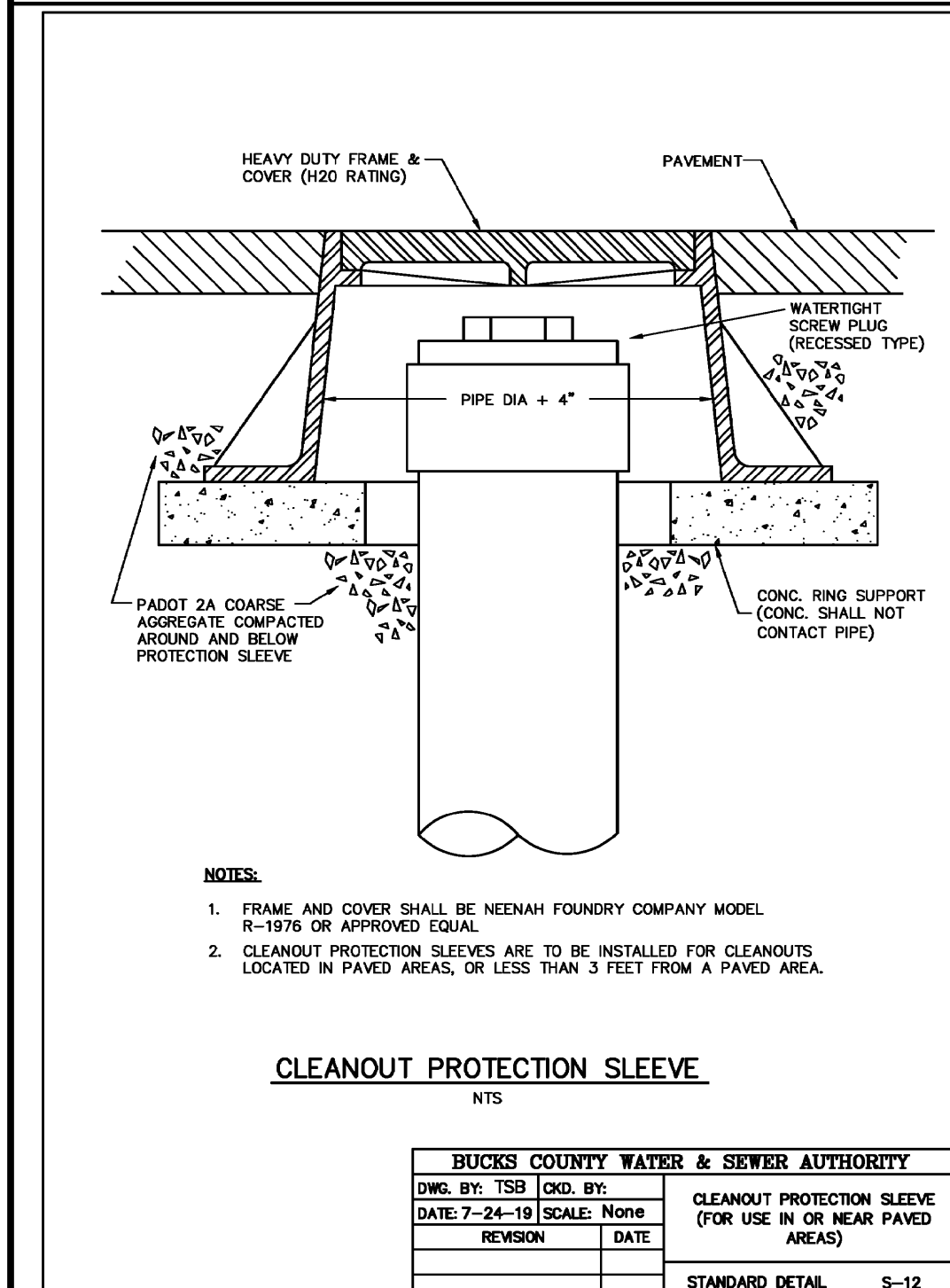
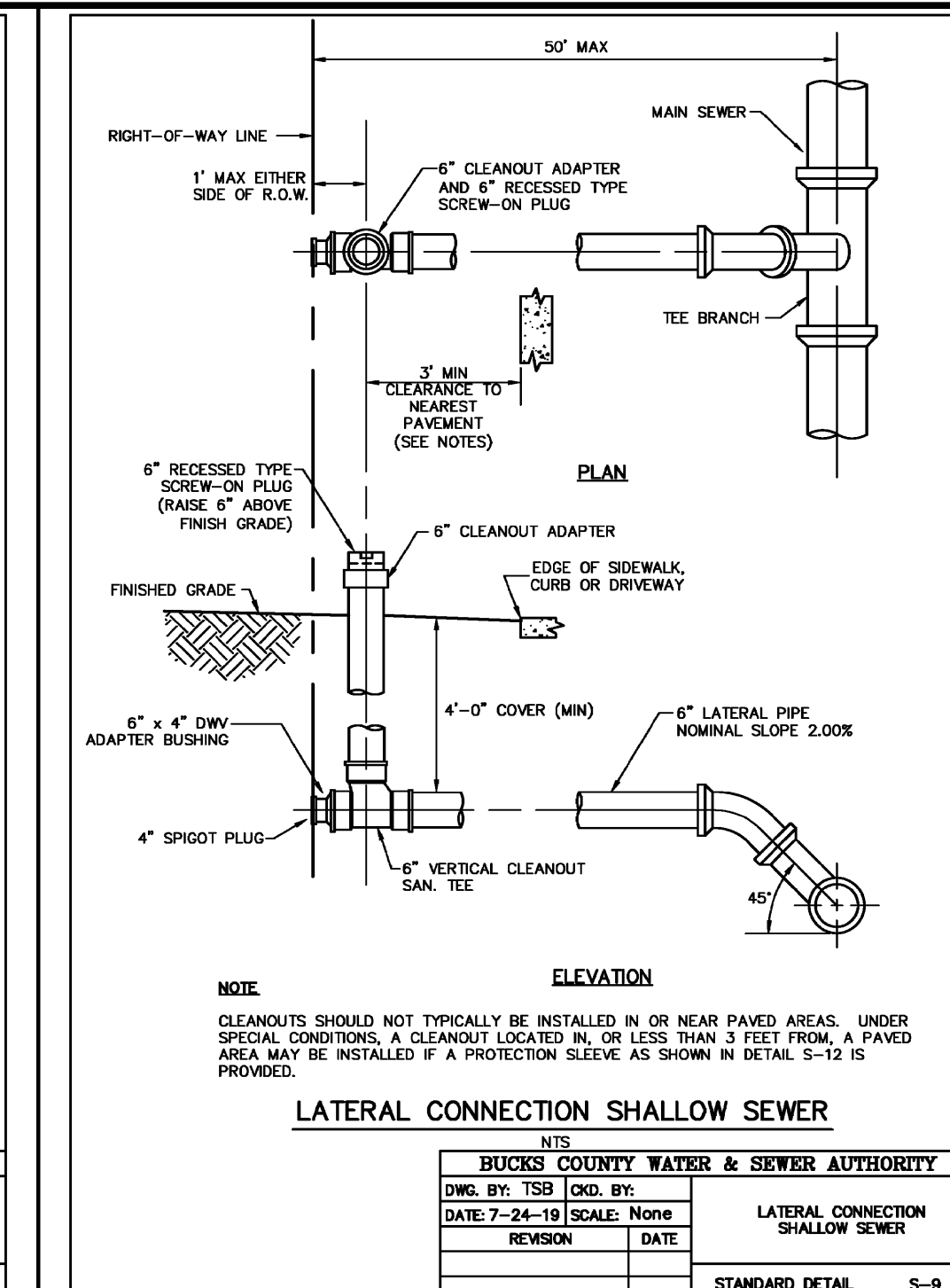
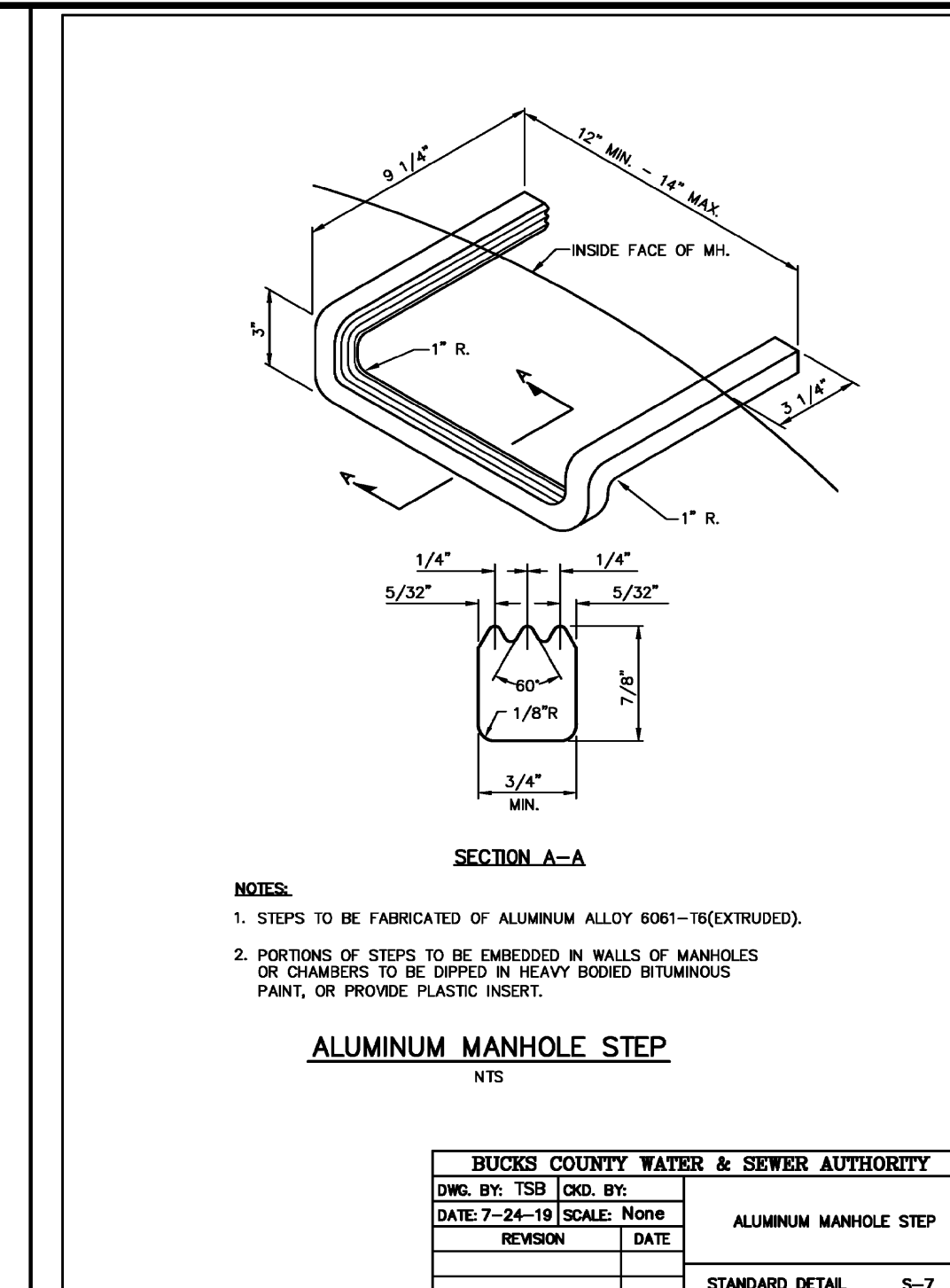
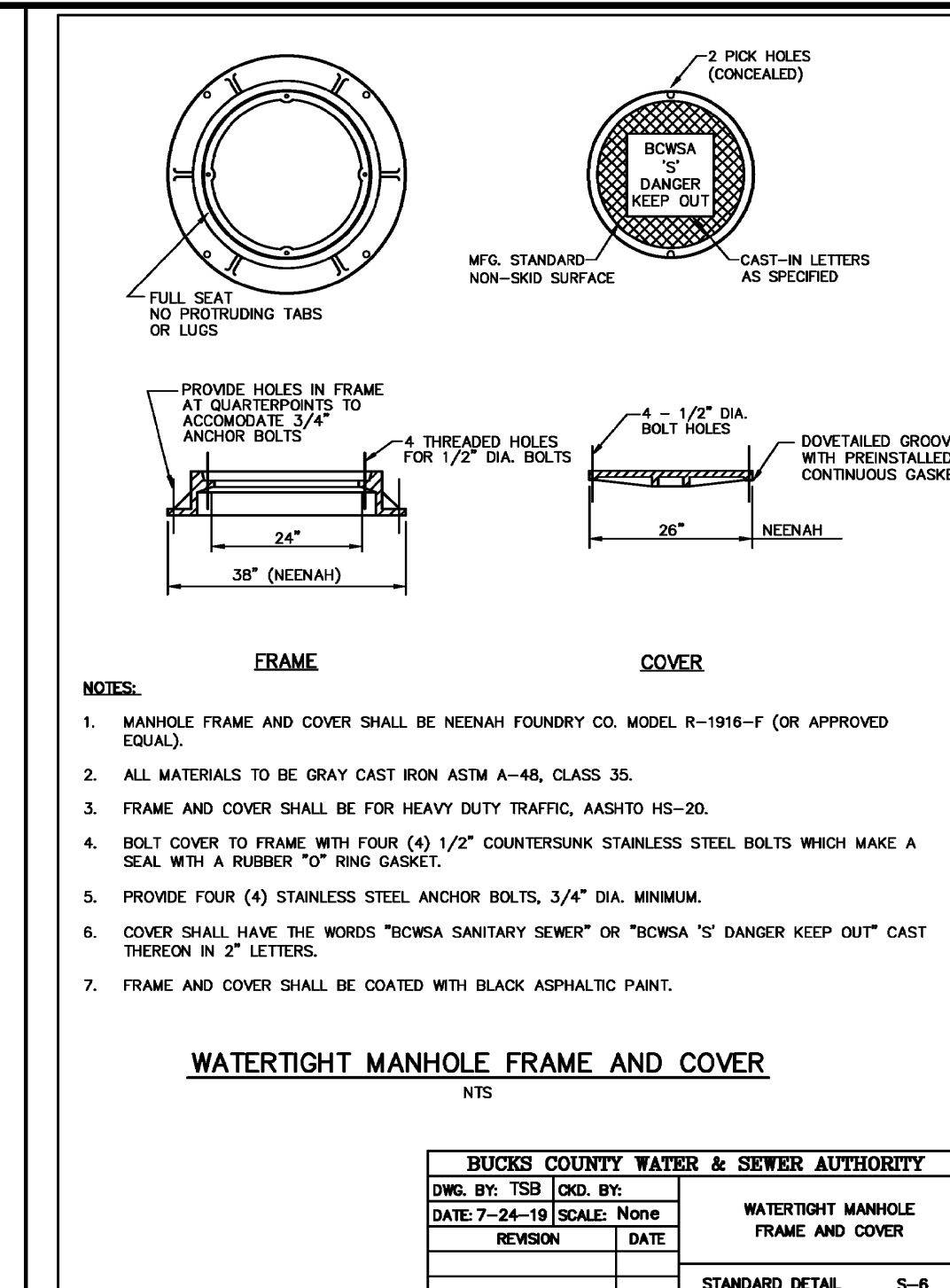
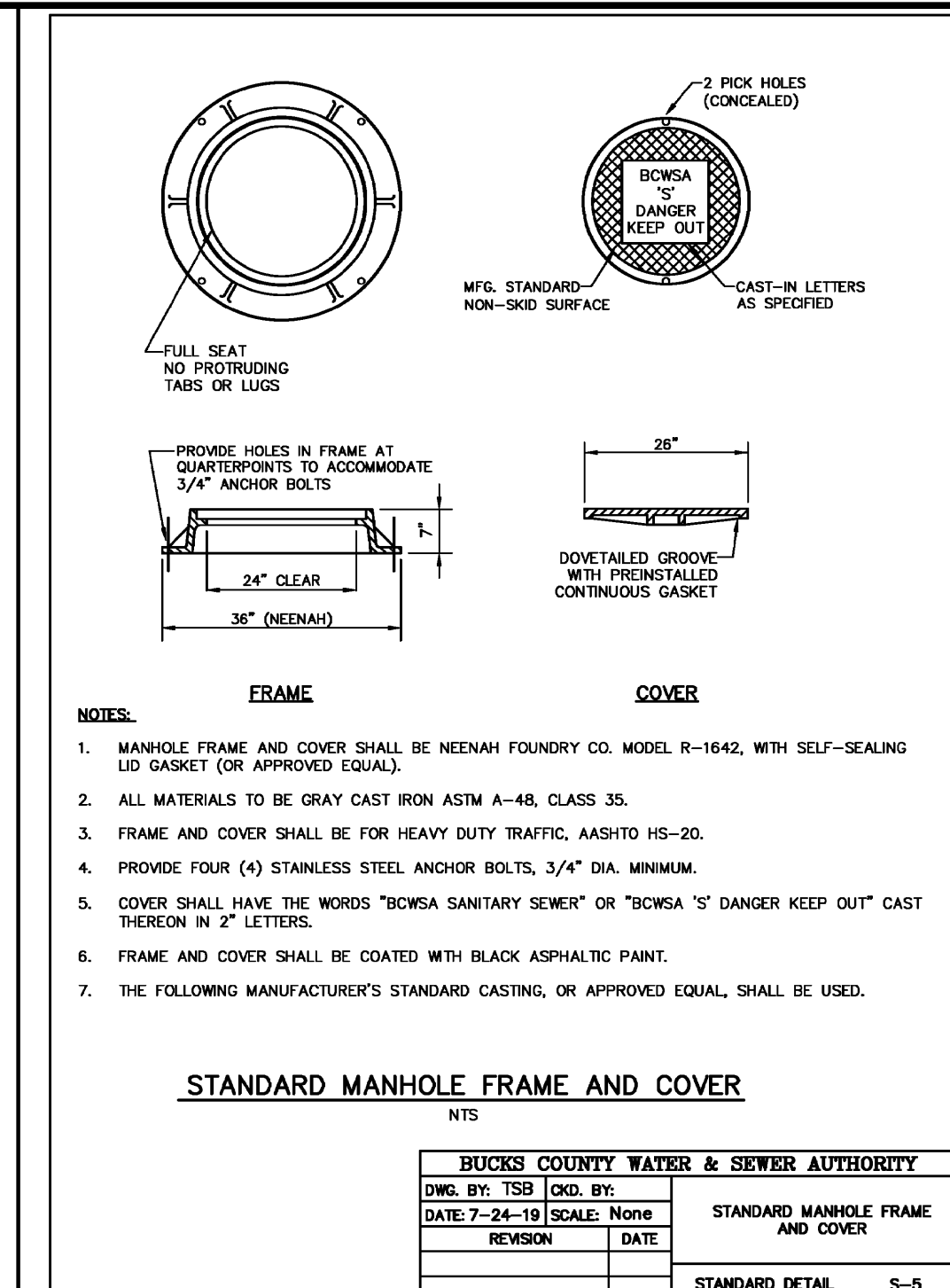
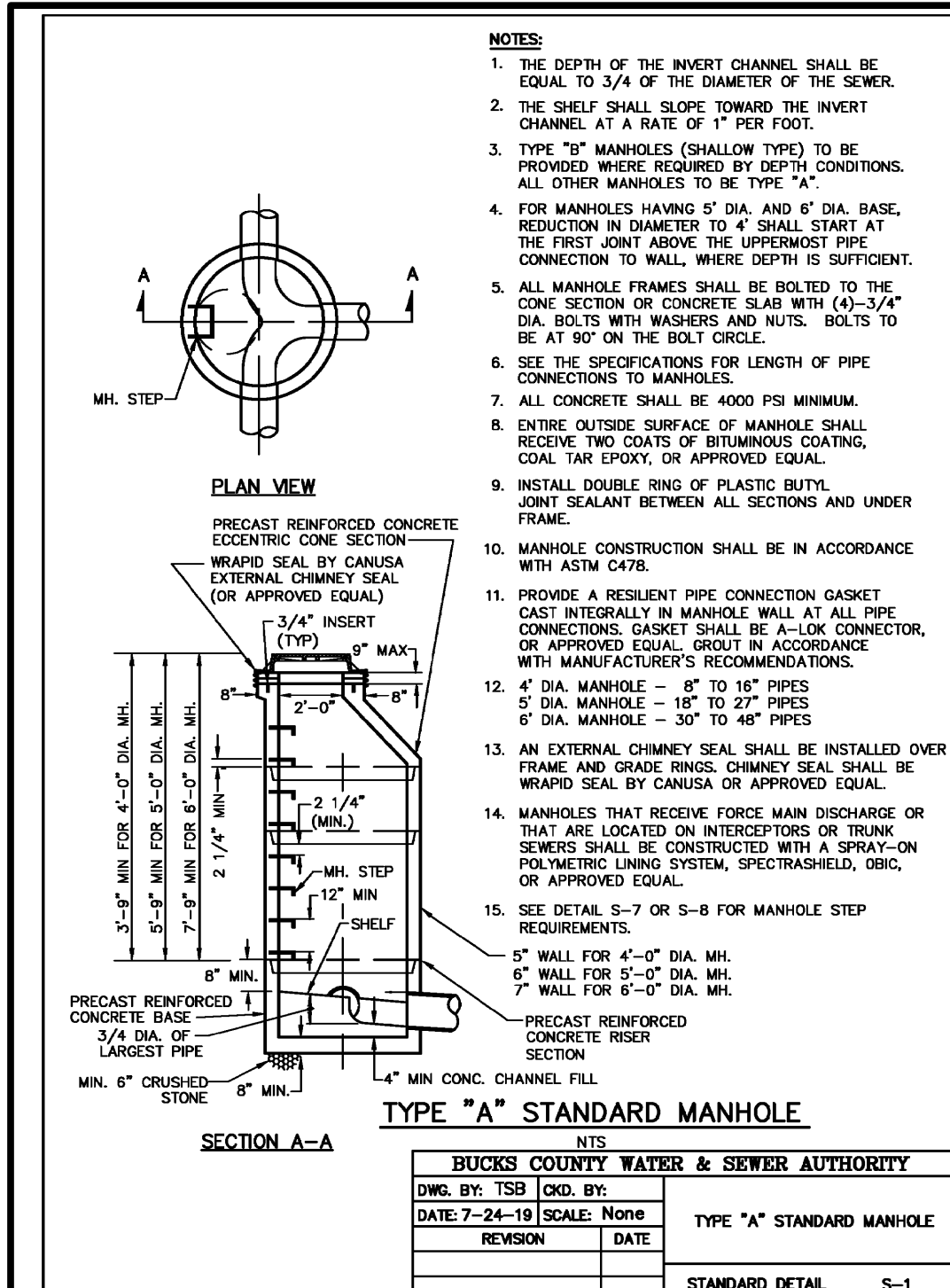
(TROUT LOGO TO BE CAST INTO ALL STORM SEWER INLET TOP UNITS) NTS

EAST JORDAN IRON WORKS, INC.	DATE
1-800-874-4100	03/27/03
DRAWN	DATE
JHS	03/27/03
APPROVED	DATE
PRODUCT NO.	00700360
CATALOG NO.	7003PL1
REF. PRODUCT DRAWING	7003PL1
EST. WT.	PLATE: 12 LBS 5kg
OPEN AREA	N/A
MATL. SPEC.	PLATE - GRAY IRON ASTM A48 CL35B
LOAD RATING	N/A

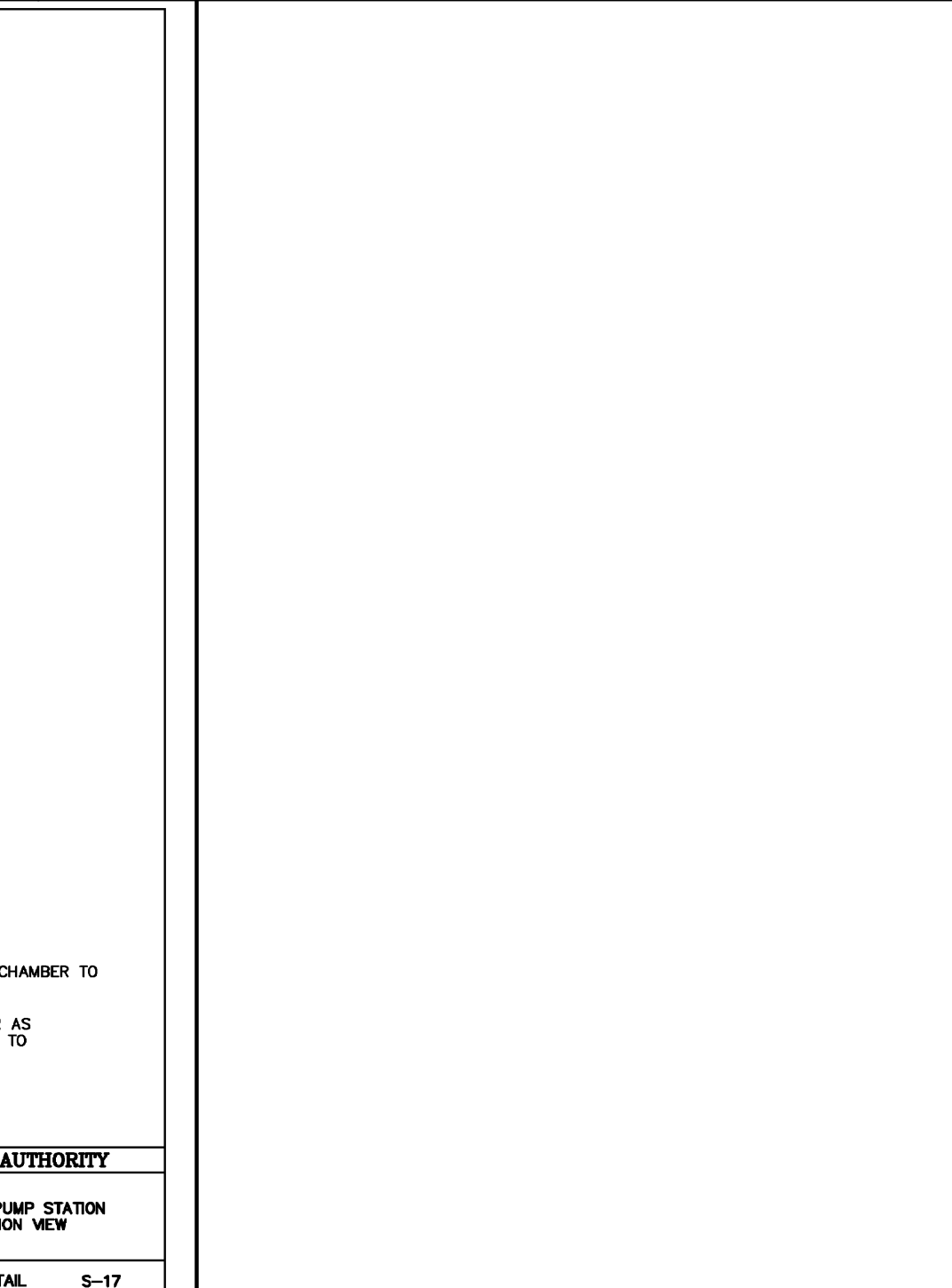
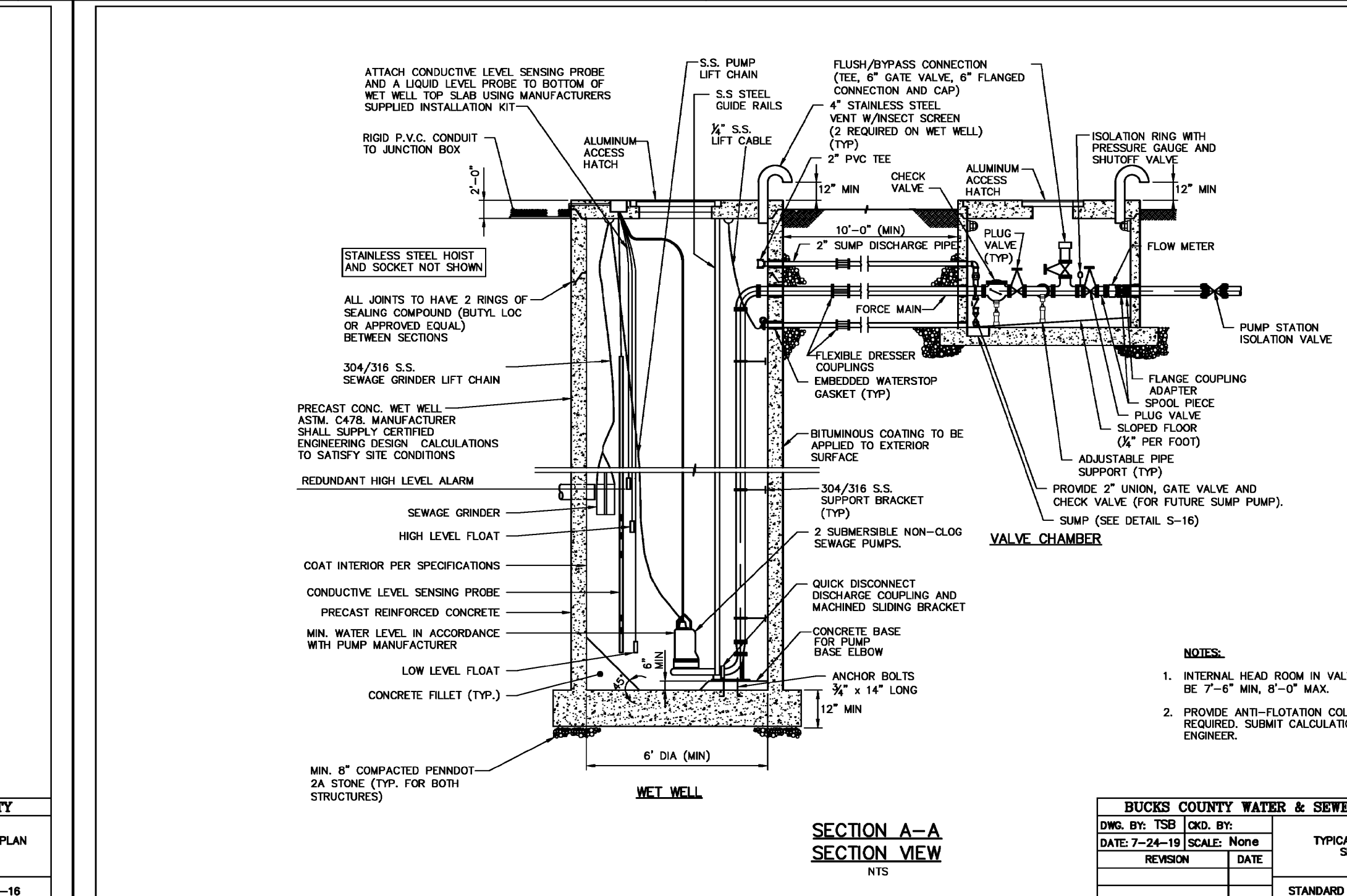
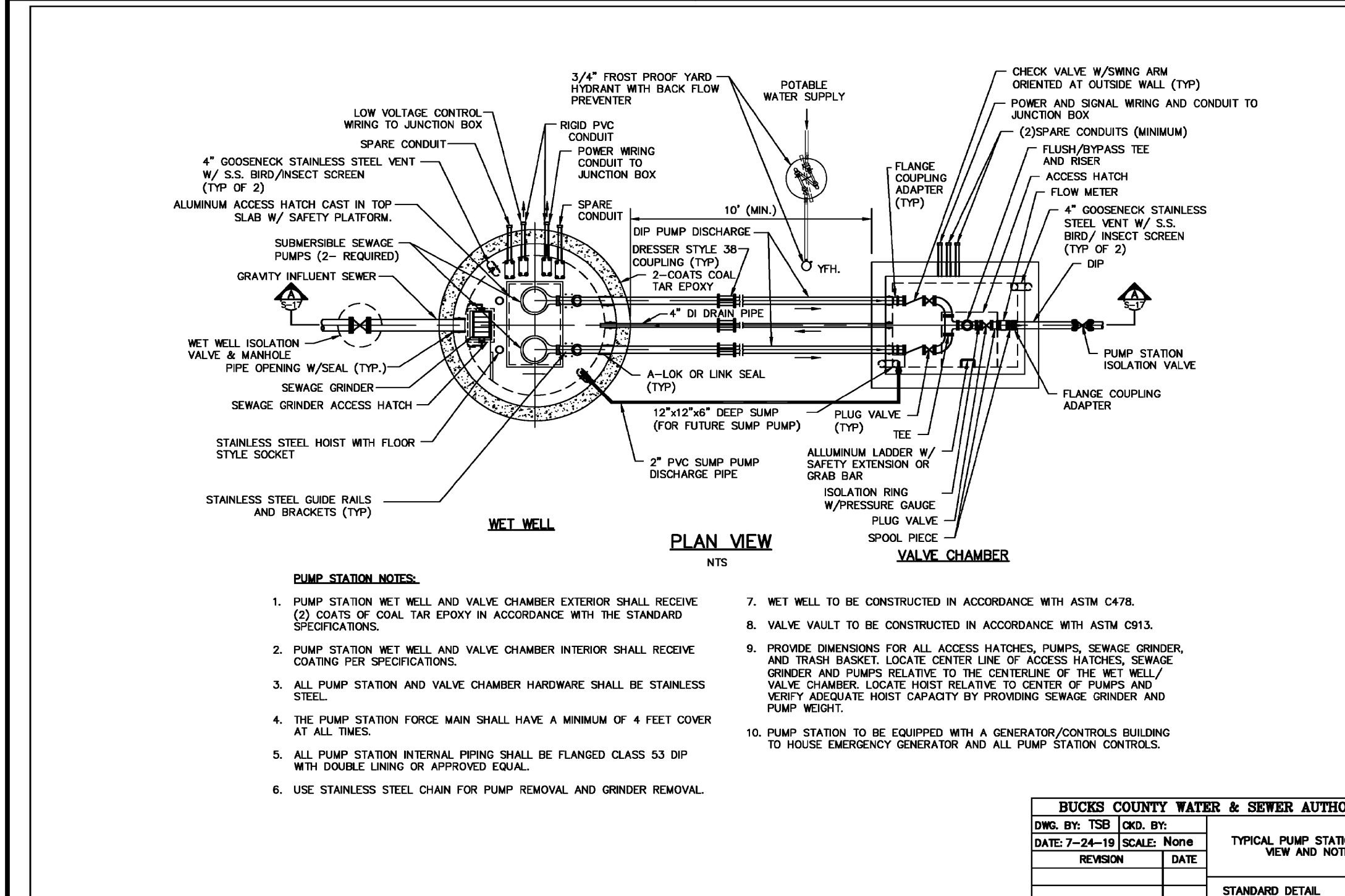
REVISIONS	
DATE	DESCRIPTION

SHEET No. 40 OF 49

URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com



NOTE: ALL PVC SANITARY PIPE SHALL BE SDR-26 UNLESS OTHERWISE NOTED.



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251550

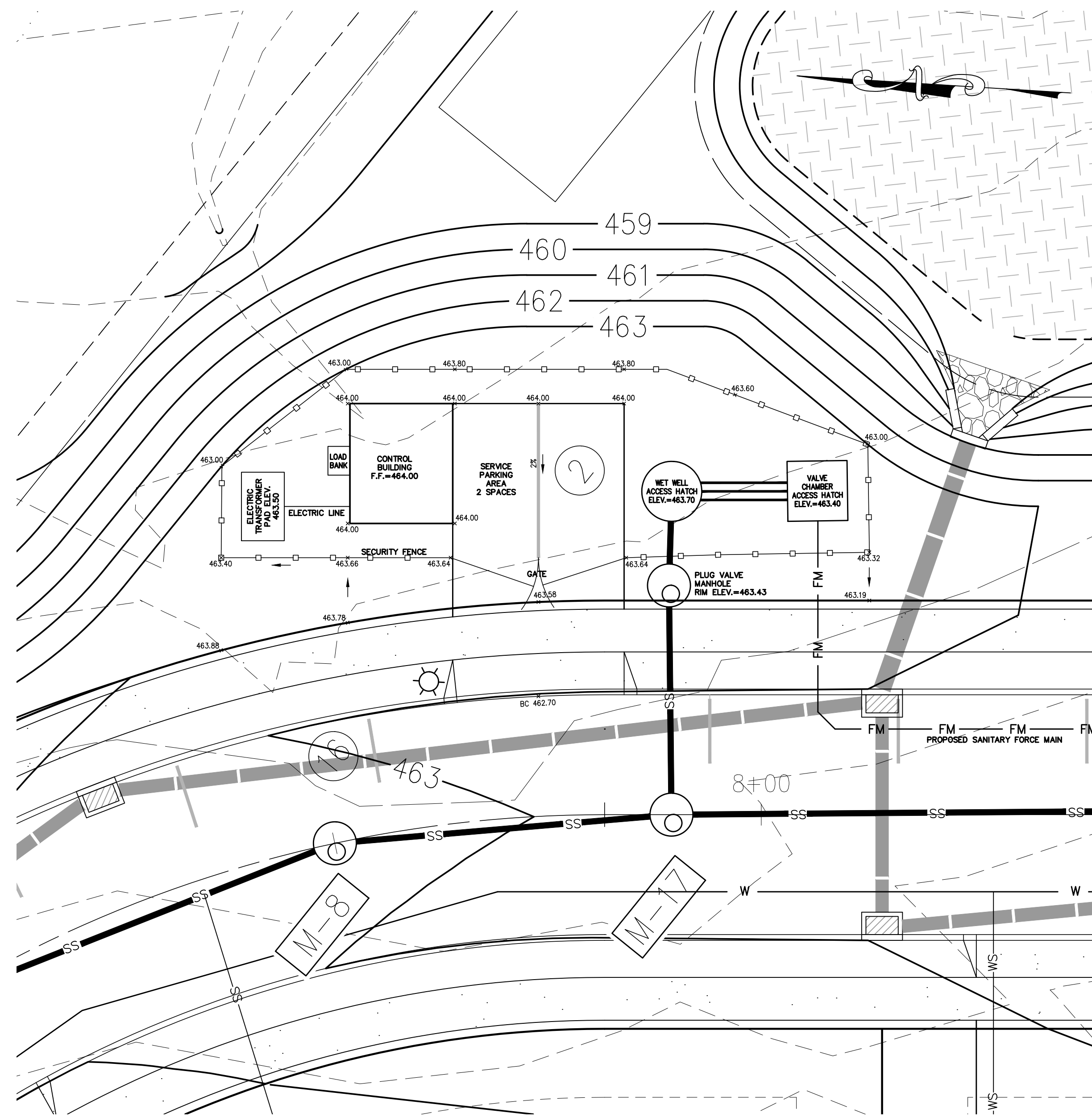
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
SANITARY SEWER DETAIL PLAN
 PREPARED FOR
RHG PROPERTIES, LLC.

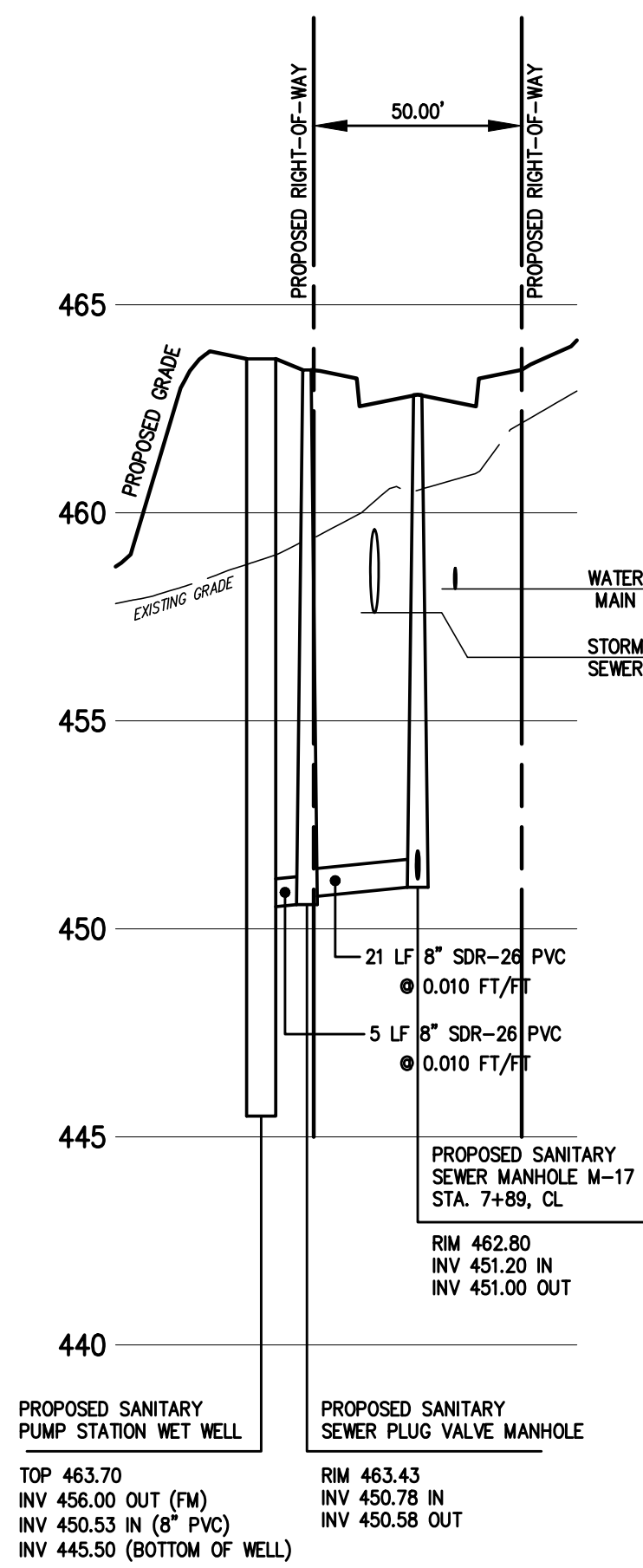
SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND

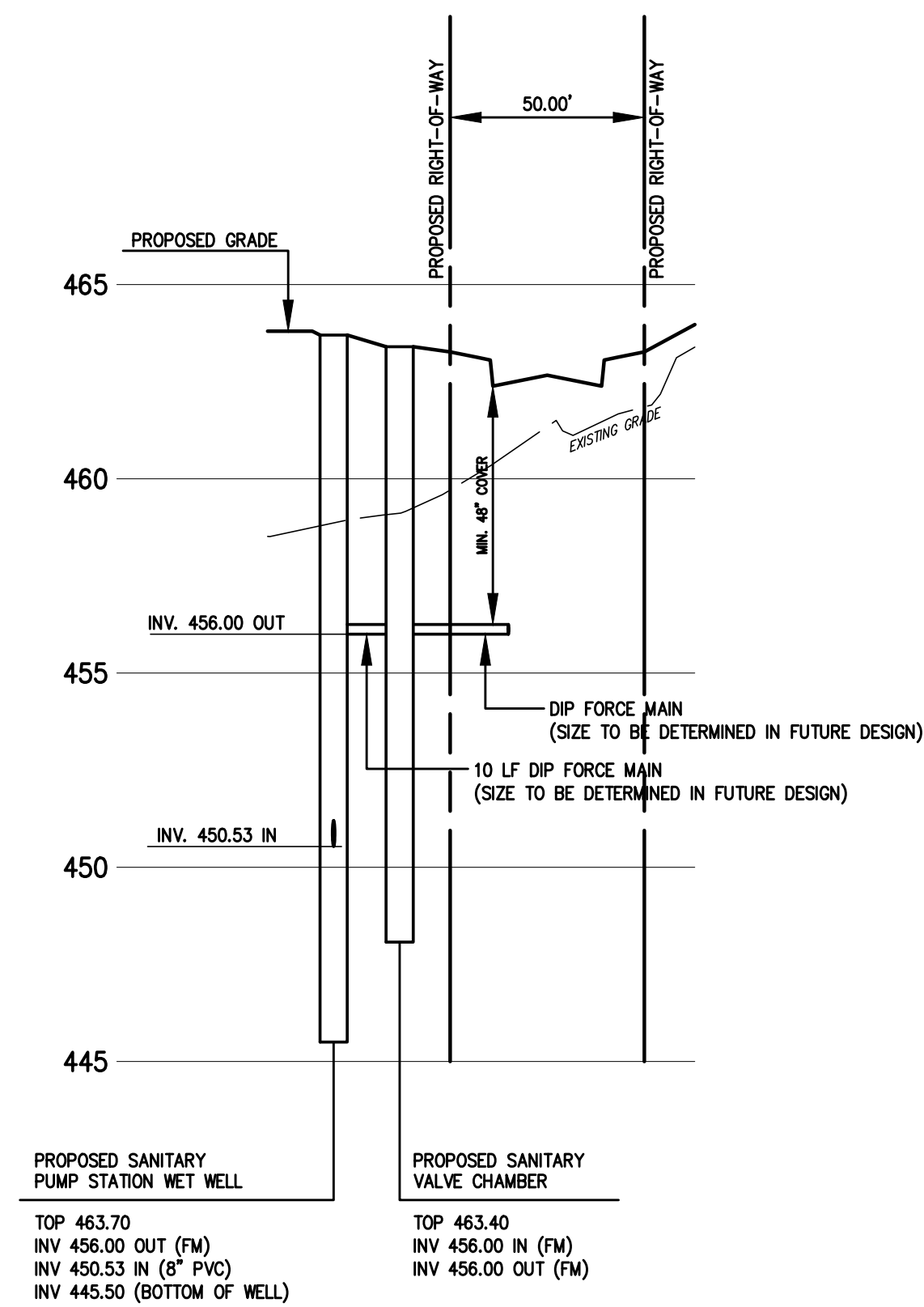




PUMP STATION ENLARGEMENT PLAN
SCALE: 1" = 10'

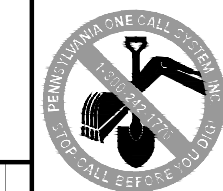


PROPOSED SANITARY MANHOLE MH-17 TO PROPOSED SANITARY PUMP STATION WET WELL
SCALE: HORZ. 1"=40'
VERT. 1"=4'



PROPOSED SANITARY PUMP STATION WET WELL TO PROPOSED SANITARY VALVE CHAMBER
SCALE: HORZ. 1"=40'
VERT. 1"=4'

NOTE: ALL PVC SANITARY PIPE SHALL BE SDR-26 UNLESS OTHERWISE NOTED.



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REVISIONS

DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
SANITARY SEWER DETAIL PLAN
PREPARED FOR
RHG PROPERTIES, LLC.

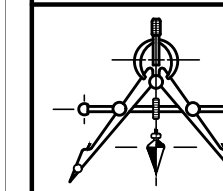
SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND

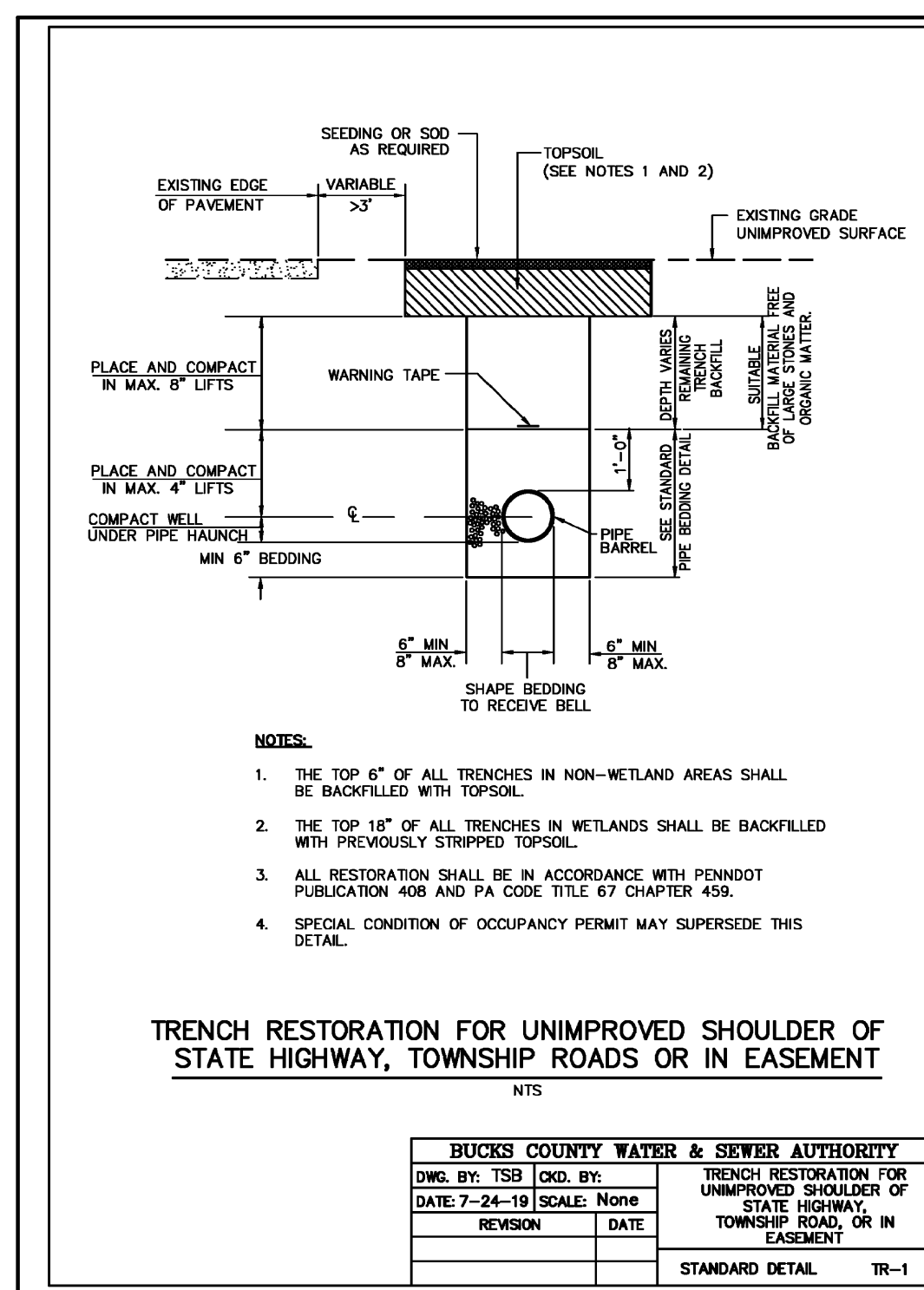


SCALE: AS SHOWN

SHEET No. 42 OF 49



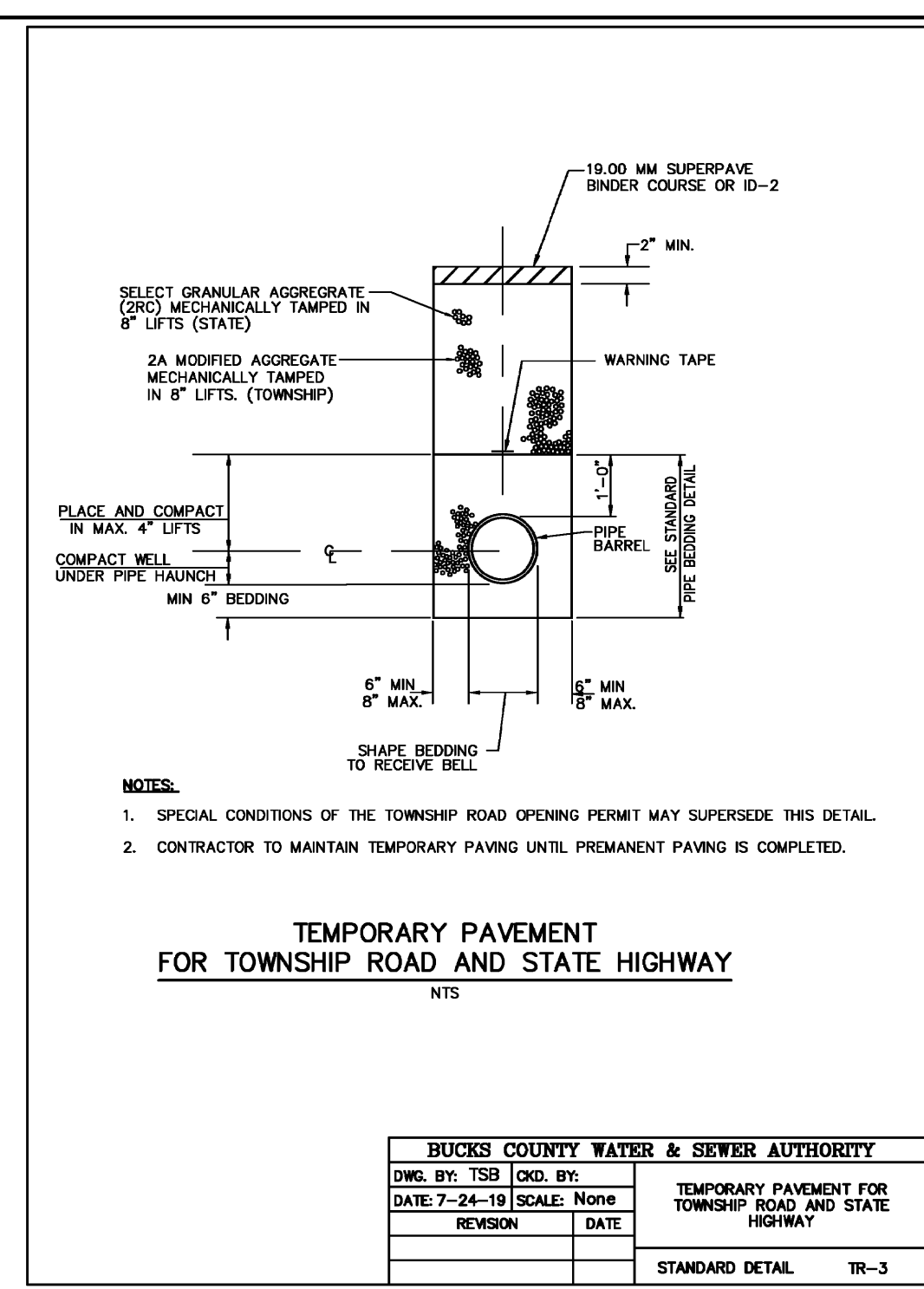
URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com



TRENCH RESTORATION FOR UNIMPROVED SHOULDER OF STATE HIGHWAY, TOWNSHIP ROADS OR IN EASEMENT
NTS

BUCKS COUNTY WATER & SEWER AUTHORITY		TRENCH RESTORATION FOR UNIMPROVED SHOULDER OF STATE HIGHWAY, TOWNSHIP ROAD, OR IN EASEMENT	
DWG. BY: TSB	CHK. BY:	DATE: 7-24-19	SCALE: None
REVISION	DATE		

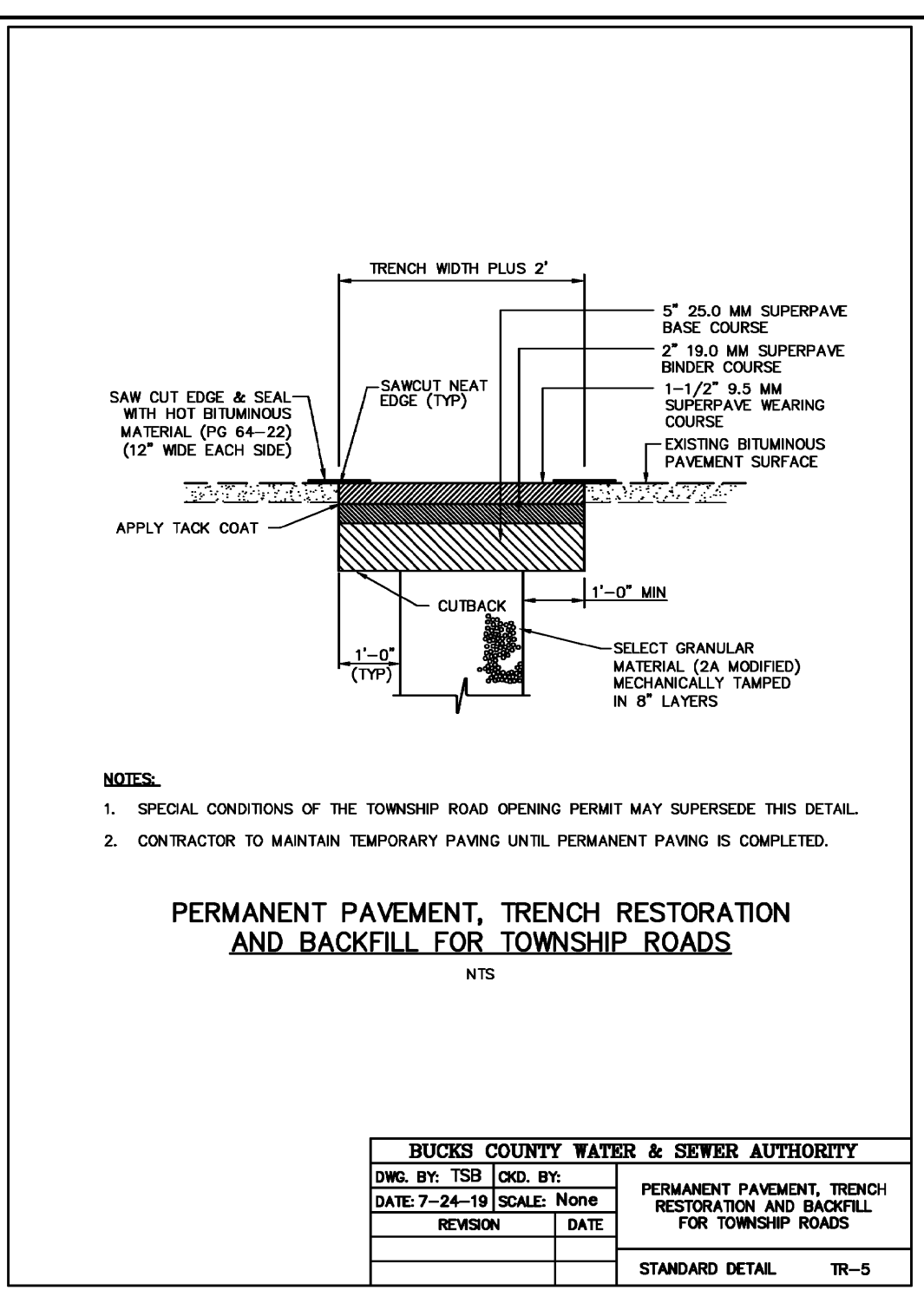
STANDARD DETAIL TR-1



TEMPORARY PAVEMENT FOR TOWNSHIP ROAD AND STATE HIGHWAY
NTS

BUCKS COUNTY WATER & SEWER AUTHORITY		TEMPORARY PAVEMENT FOR TOWNSHIP ROAD AND STATE HIGHWAY	
DWG. BY: TSB	CHK. BY:	DATE: 7-24-19	SCALE: None
REVISION	DATE		

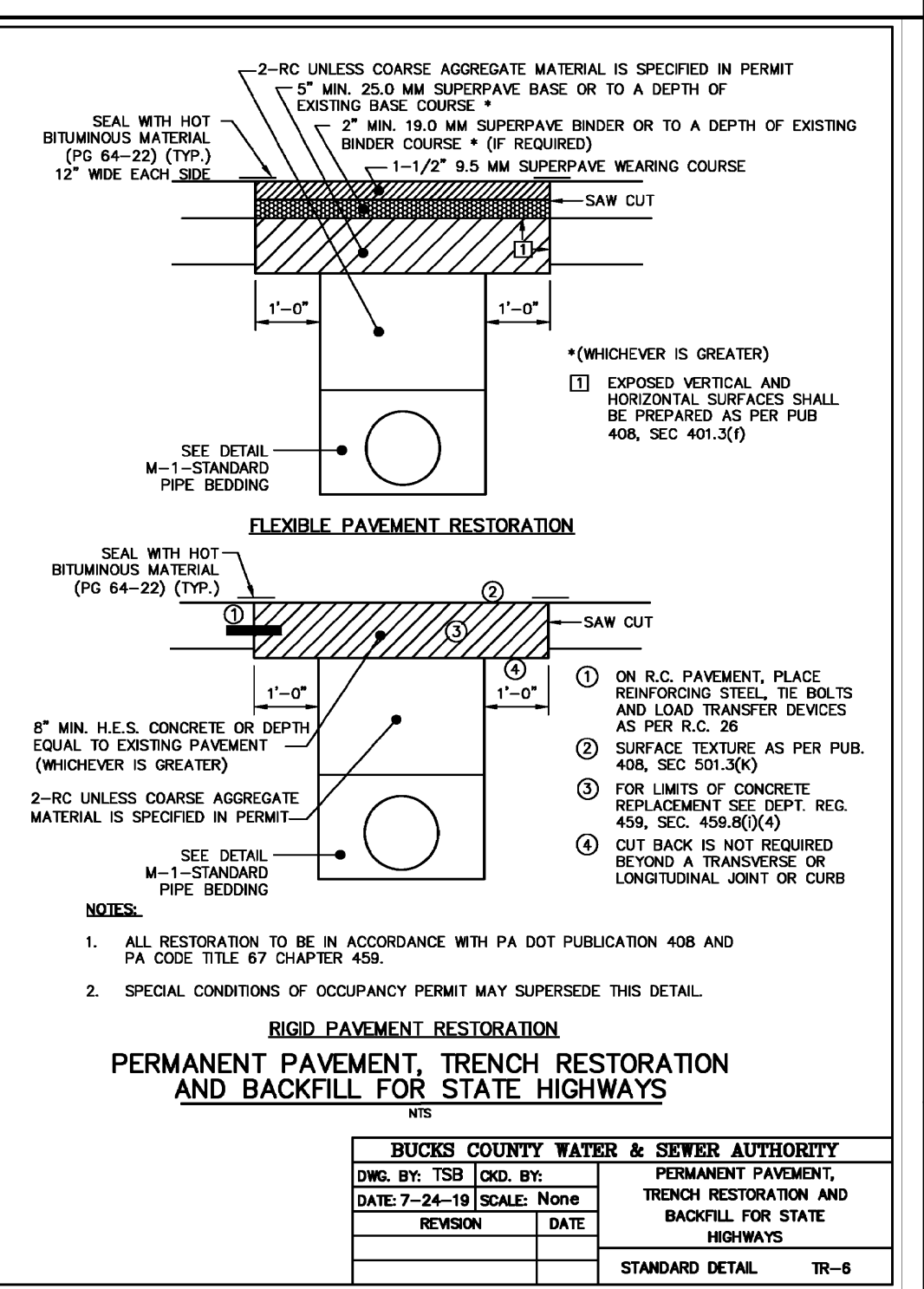
STANDARD DETAIL TR-3



PERMANENT PAVEMENT, TRENCH RESTORATION AND BACKFILL FOR TOWNSHIP ROADS
NTS

BUCKS COUNTY WATER & SEWER AUTHORITY		PERMANENT PAVEMENT, TRENCH RESTORATION AND BACKFILL FOR TOWNSHIP ROADS	
DWG. BY: TSB	CHK. BY:	DATE: 7-24-19	SCALE: None
REVISION	DATE		

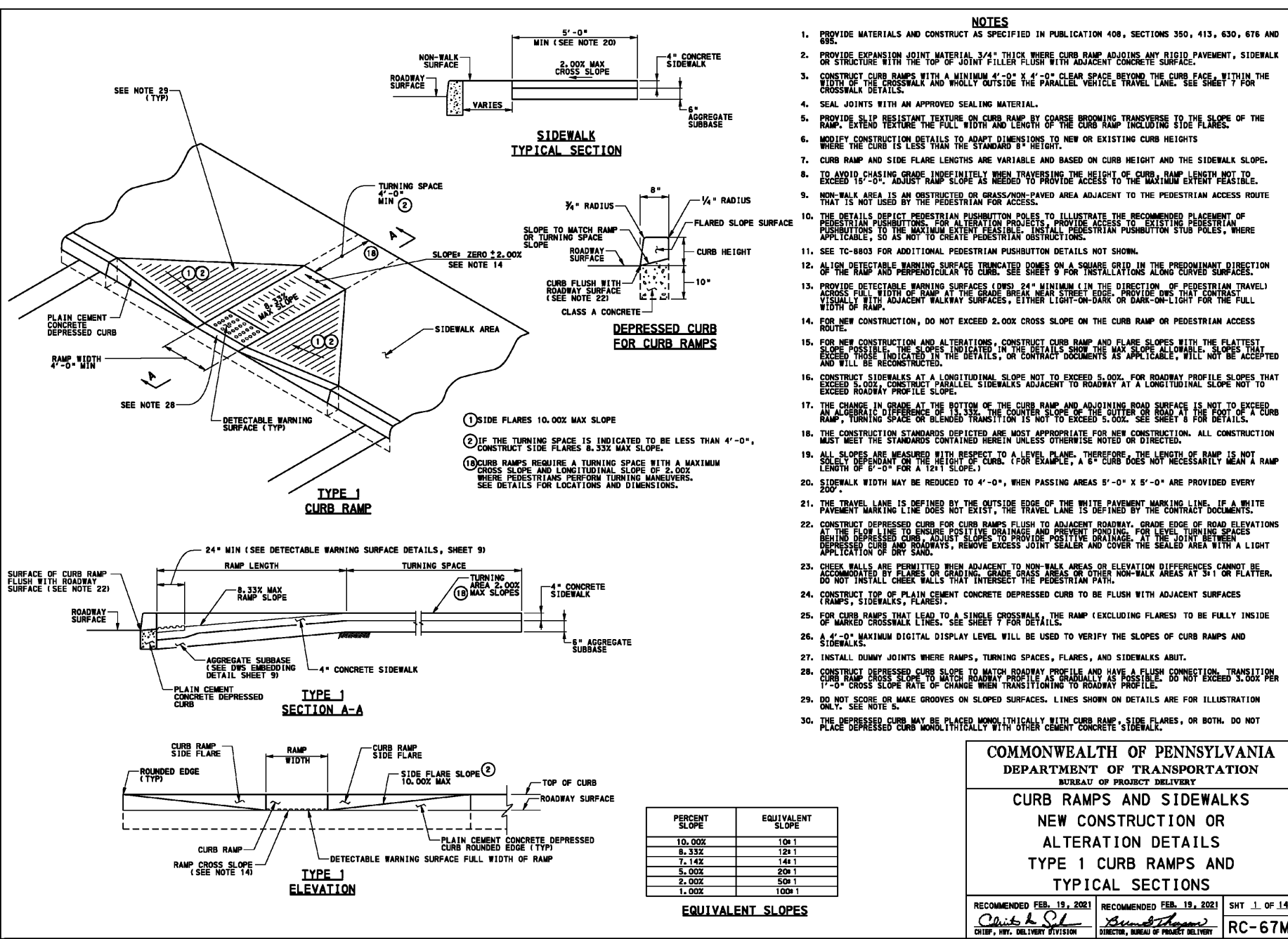
STANDARD DETAIL TR-5



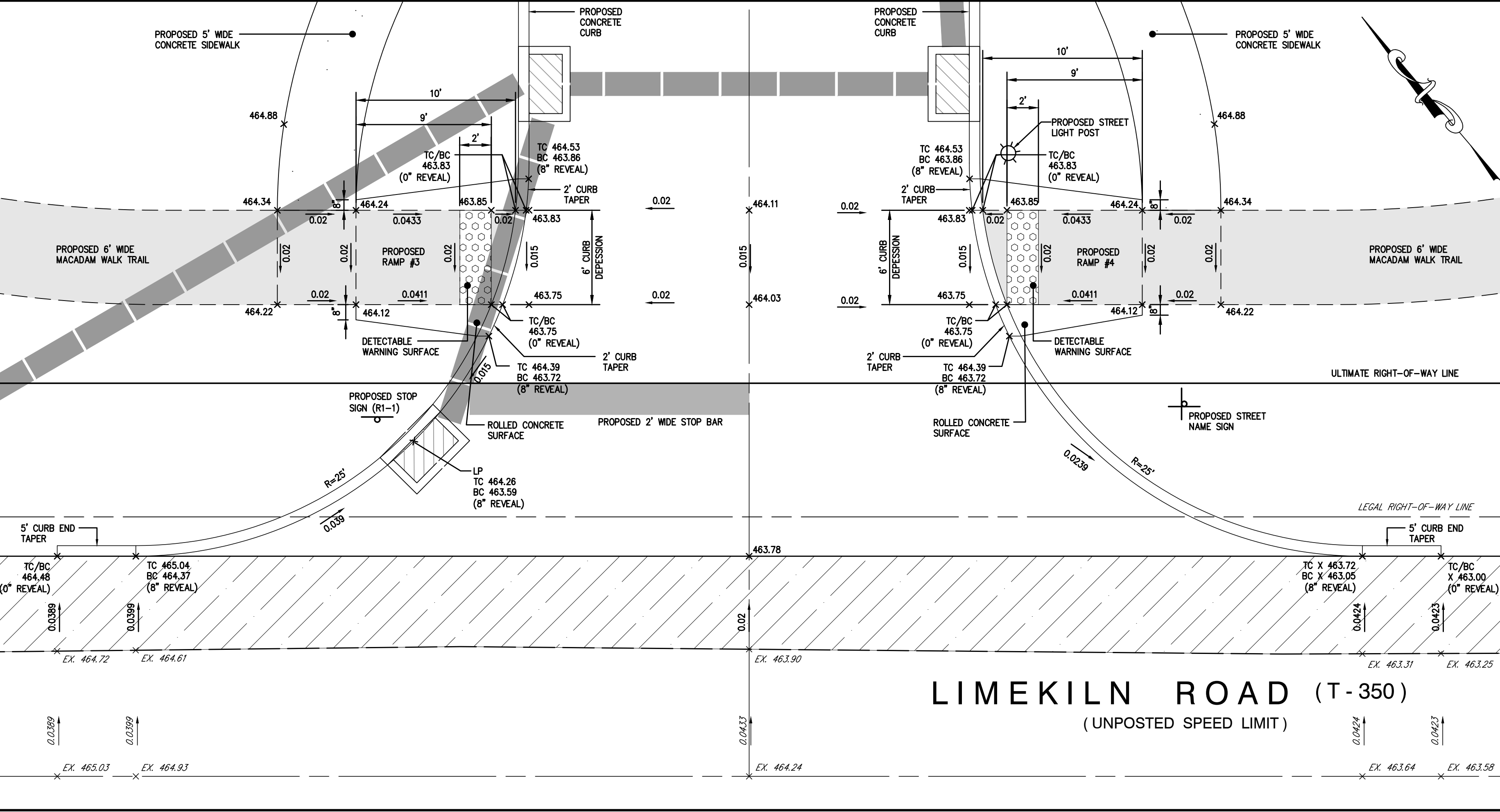
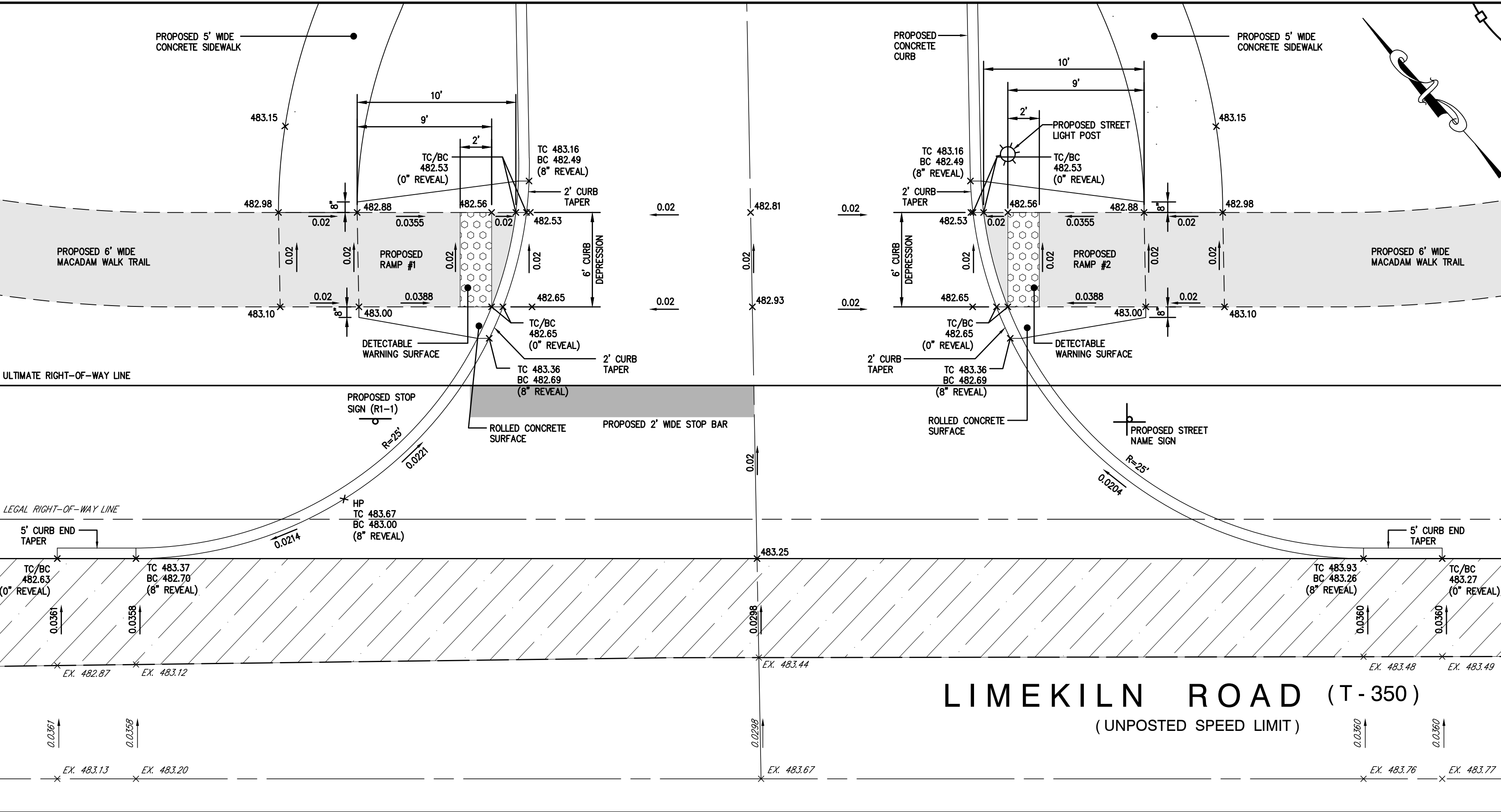
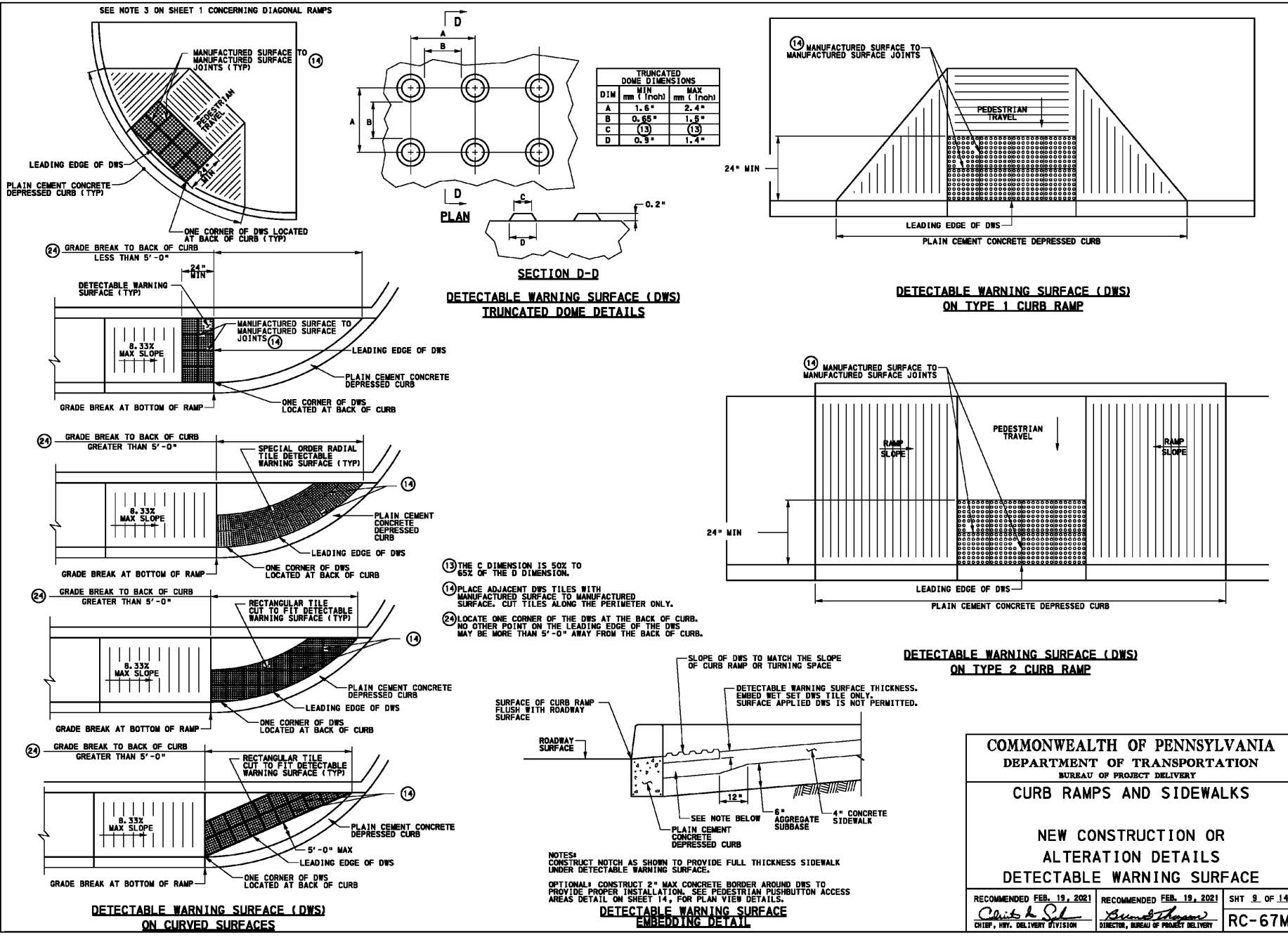
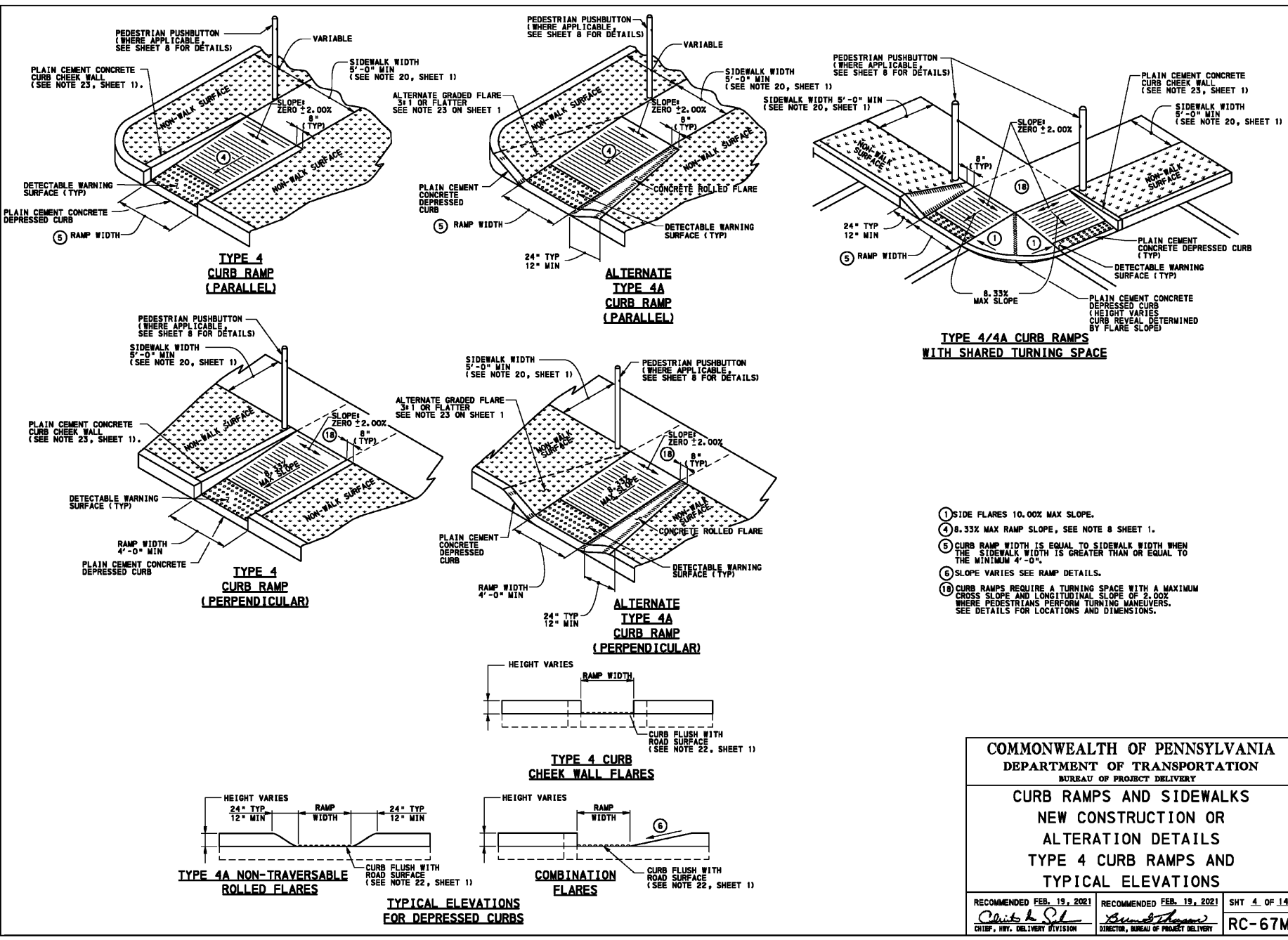
PERMANENT PAVEMENT, TRENCH RESTORATION AND BACKFILL FOR STATE HIGHWAYS
NTS

BUCKS COUNTY WATER & SEWER AUTHORITY		PERMANENT PAVEMENT, TRENCH RESTORATION AND BACKFILL FOR STATE HIGHWAYS	
DWG. BY: TSB	CHK. BY:	DATE: 7-24-19	SCALE: None
REVISION	DATE		

STANDARD DETAIL TR-6



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY
CURB RAMPS AND SIDEWALKS
NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 1 CURB RAMPS AND
TYPICAL SECTIONS
RECOMMENDED (18, 21, 28) RECOMMENDED (18, 21, 28) SHEET 1 OF 14
DATE: 08/14/2023
RC-67M



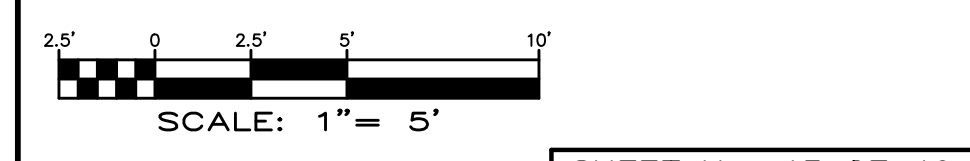
- ADA NOTES:**
1. CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - A. PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
 - B. CURB RAMPS - SLOPE MUST NOT EXCEED 1:12 (8.3%)
 - C. LANDINGS - MUST BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
 - D. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE MUST BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), ADA RAMP MUST BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, MUST BE PROVIDED. THE RAMP MUST HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSSED SLOPE NO MORE THAN 1:50 IN ANY DIRECTION (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.
 - E. DOORWAYS - MUST HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCES INCORPORATED BY CODE.)
 - F. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING, BEFORE COMMENCEMENT OF WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.
 2. THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-COMFORMANCE IS OBSERVED OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-COMFORMING CONCRETE.
 3. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

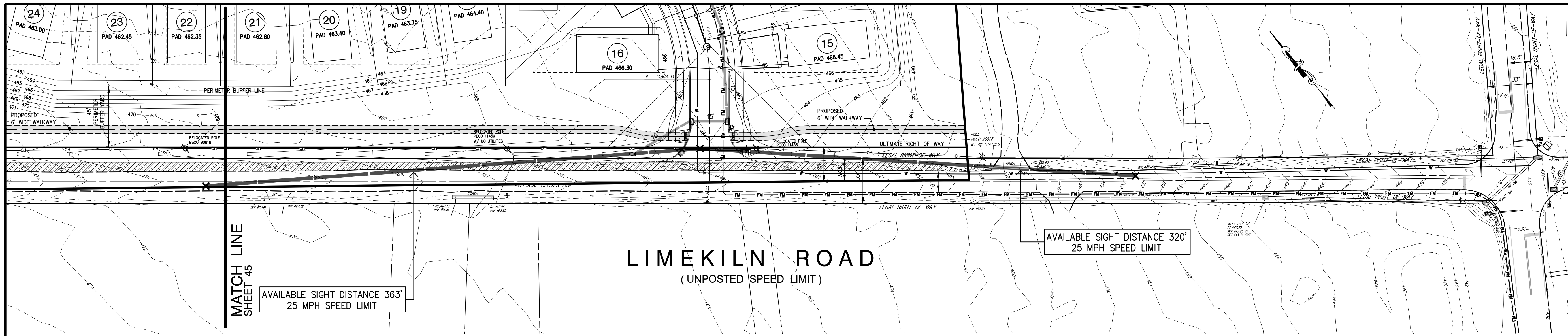
LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251550

REVISIONS	
DATE	DESCRIPTION

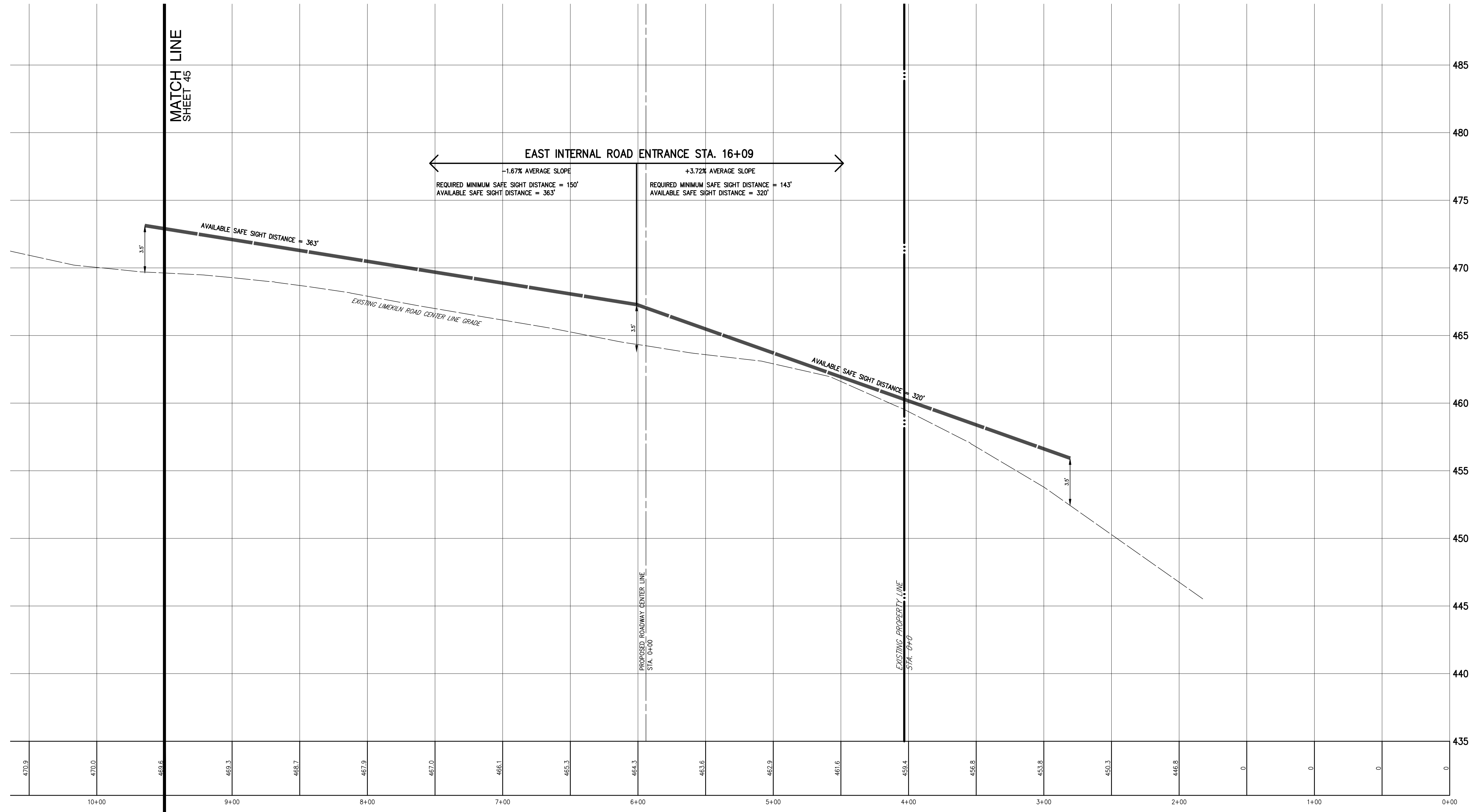
**GALENA RESERVE MOBILE HOME PARK
ADA ENLARGEMENT & DETAIL PLAN**
PREPARED FOR
RHG PROPERTIES, LLC.
SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND





GENERAL NOTES:
 1. REFER TO SAFE SIGHT DISTANCE DETAIL PLAN FOR DRIVEWAY SAFE SIGHT DISTANCE MEASUREMENTS CHART AND NOTES.



LIMEKILN ROAD PROFILE
 SCALE: HORIZ. 1"=40'
 VERT. 1"=4'

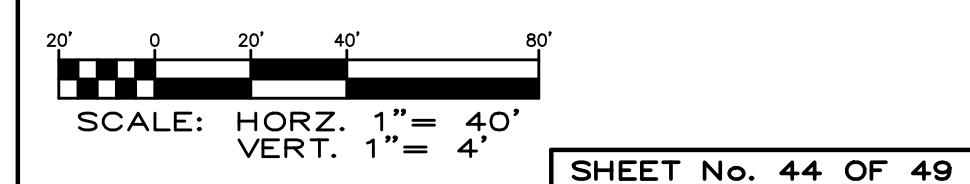
LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

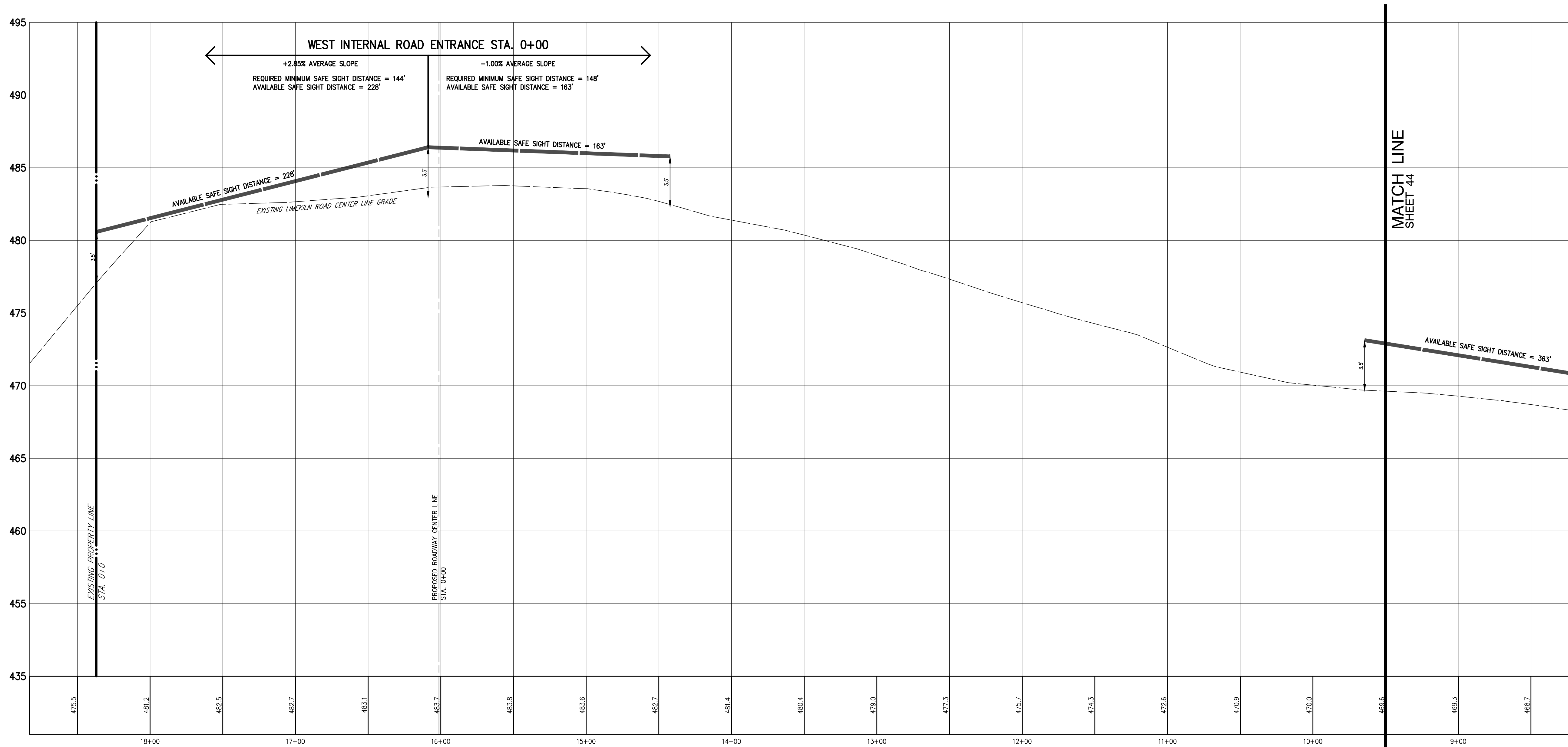
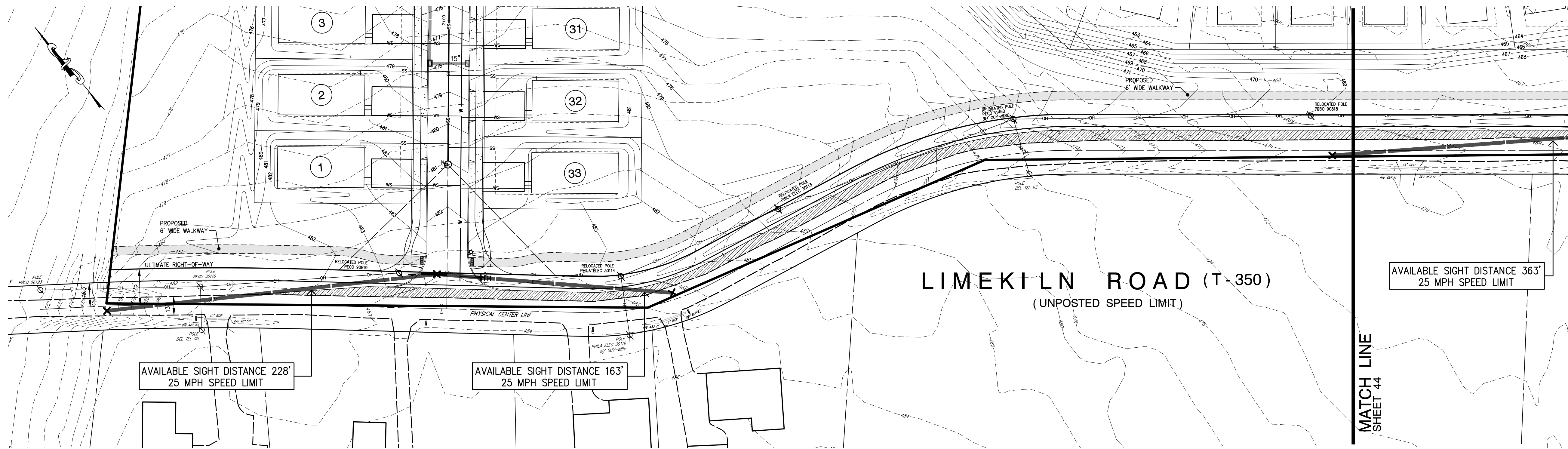
REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
LIMEKILN ROAD (1 of 3)
SAFE SIGHT DISTANCE PLAN
 PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
 PROJECT No. 18075
 FILE: 18075-LAND XREF ECP





LIMEKILN ROAD PROFILE
SCALE: HORZ. 1"=40'
VERT. 1"=4'

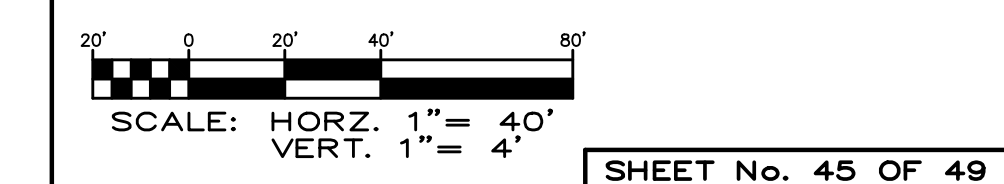
GENERAL NOTES:
1. REFER TO SAFE SIGHT DISTANCE DETAIL PLAN FOR DRIVEWAY SAFE SIGHT DISTANCE MEASUREMENTS CHART AND NOTES.

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
LIMEKILN ROAD (2 of 3)
SAFE SIGHT DISTANCE PLAN
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA
SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP



EAST INTERNAL ROAD ENTRANCE STA. 16+09

M-608 (3-04)
PENNDOT

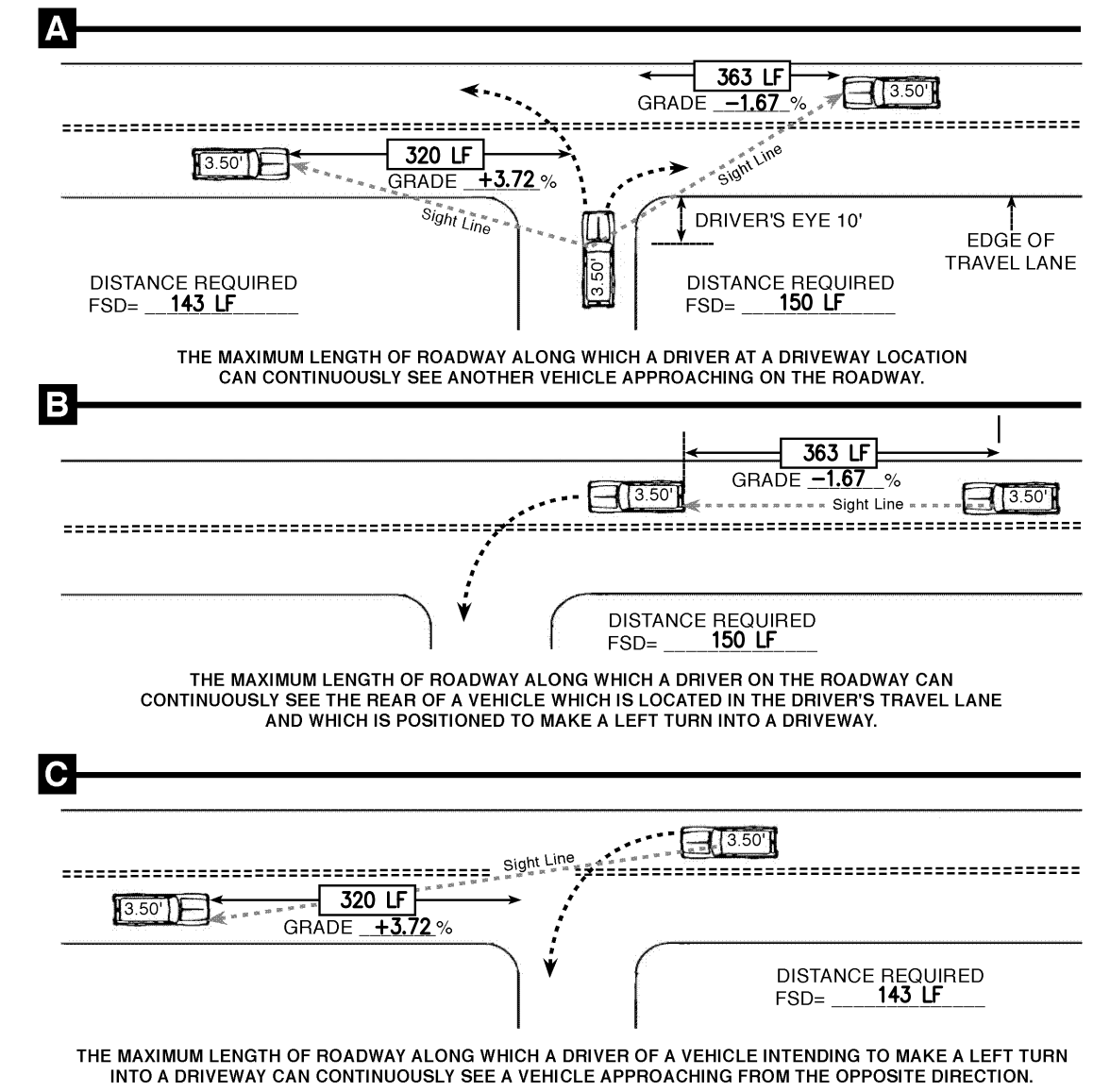
DRIVEWAY SIGHT DISTANCE MEASUREMENTS
(FOR LOCAL ROADS, USE PENNDOT PUB 70)

APPLICANT: RHG Properties, LLC. APPLICATION NO. _____
(East end Internal Road intersecting Limekiln Road)

S.R. _____ SEG. _____ OFFSET _____ LEGAL SPEED LIMIT: 25mph
(assumed, no posted limit)

MEASURED BY _____ DATE _____

FOR DEPARTMENT USE ONLY: Safe-Running Speed _____ 85th Percentile Speed _____



WEST INTERNAL ROAD ENTRANCE STA. 0+00

M-608 (3-04)
PENNDOT

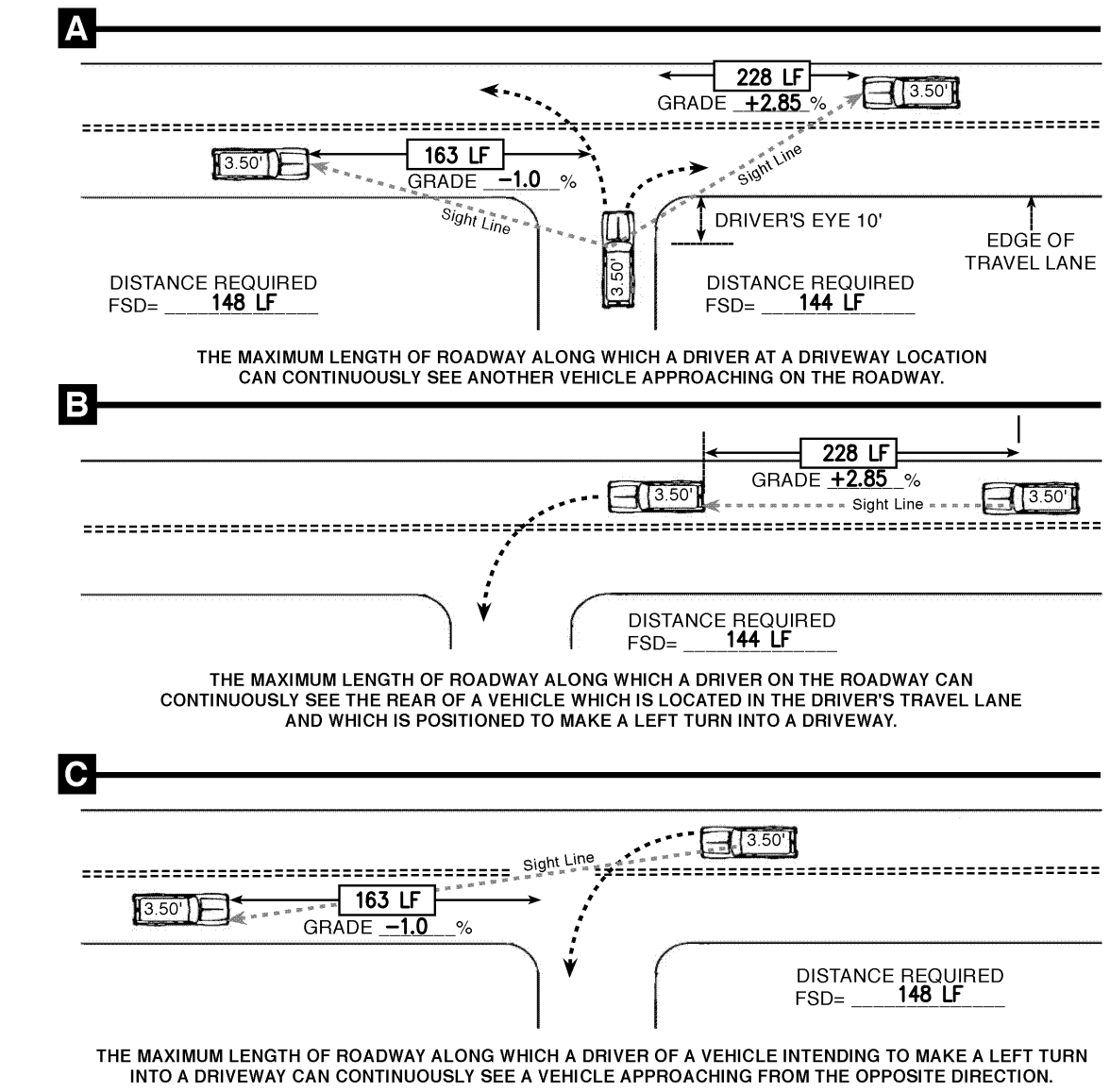
DRIVEWAY SIGHT DISTANCE MEASUREMENTS
(FOR LOCAL ROADS, USE PENNDOT PUB 70)

APPLICANT: RHG Properties, LLC. APPLICATION NO. _____
(West end Internal Road intersecting Limekiln Road)

S.R. _____ SEG. _____ OFFSET _____ LEGAL SPEED LIMIT: 25mph
(assumed, no posted limit)

MEASURED BY _____ DATE _____

FOR DEPARTMENT USE ONLY: Safe-Running Speed _____ 85th Percentile Speed _____



M-608 (3-04)
PENNDOT

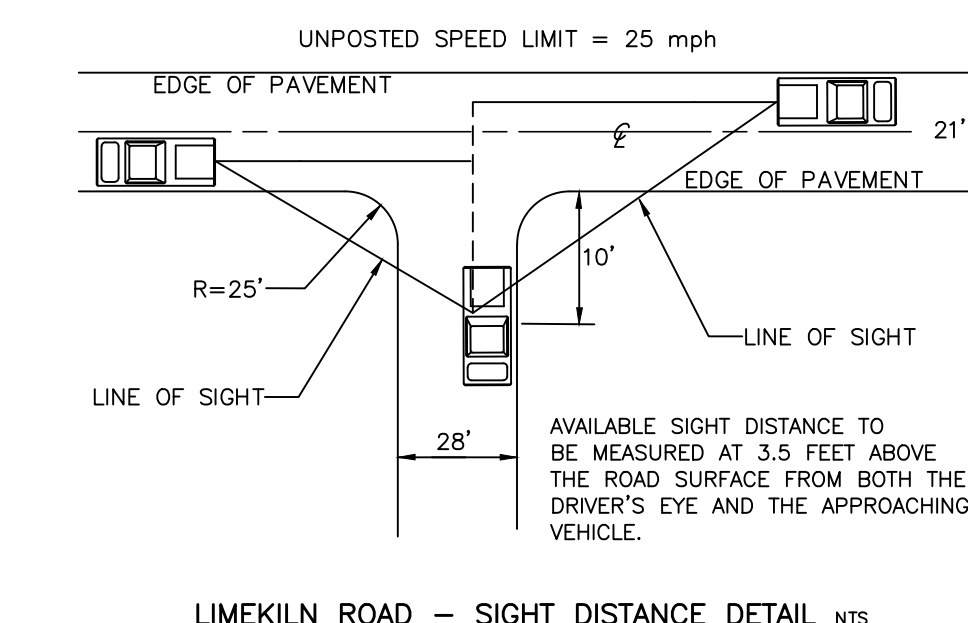
FORMULA SIGHT DISTANCE TABLE

Speed (V) (Miles Per Hour)	Average Grade (G) (Percent)										
	0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0	+10.0
	Use plus grades when approaching vehicle is travelling upgrade.										
25	147	145	144	143	142	140	139	138	137	136	135
30	196	194	191	189	187	185	183	182	180	178	177
35	249	245	242	239	236	233	231	228	226	224	221
40	314	309	304	299	295	291	287	284	280	277	274
45	383	376	370	364	358	353	348	343	339	334	330
50	462	453	444	436	429	422	415	409	403	397	392
55	538	527	517	508	499	490	482	475	468	461	454
	Use negative grades when approaching vehicle is travelling downgrade.										
25	147	148	150	151	153	155	157	159	161	164	166
30	196	199	201	204	207	210	214	217	221	226	230
35	249	252	256	260	265	269	275	280	286	292	299
40	314	319	325	331	338	345	352	360	369	379	389
45	383	390	398	406	415	425	435	447	459	472	487
50	462	471	481	492	504	517	531	546	563	581	600
55	538	550	562	576	590	606	622	641	661	682	706

M-608 (3-04)
PENNDOT

FORMULA SIGHT DISTANCE TABLE

Speed (V) (Miles Per Hour)	Average Grade (G) (Percent)										
	0.0	+1.0	+2.0	+3.0	+4.0	+5.0	+6.0	+7.0	+8.0	+9.0	+10.0
	Use plus grades when approaching vehicle is travelling upgrade.										
25	147	145	144	143	142	140	139	138	137	136	135
30	196	194	191	189	187	185	183	182	180	178	177
35	249	245	242	239	236	233	231	228	226	224	221
40	314	309	304	299	295	291	287	284	280	277	274
45	383	376	370	364	358	353	348	343	339	334	330
50	462	453	444	436	429	422	415	409	403	397	392
55	538	527	517	508	499	490	482	475	468	461	454
	Use negative grades when approaching vehicle is travelling downgrade.										
25	147	148	150	151	153	155	157	159	161	164	166
30	196	199	201	204	207	210	214	217	221	226	230
35	249	252	256	260	265	269	275	280	286	292	299
40	314	319	325	331	338	345	352	360	369	379	389
45	383	390	398	406	415	425	435	447	459	472	487
50	462	471	481	492	504	517	531	546	563	581	600
55	538	550	562	576	590	606	622	641	661	682	706



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251500

REVISIONS

DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
LIMEKILN ROAD (3 of 3)
SAFE SIGHT DISTANCE DETAILS PLAN
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP



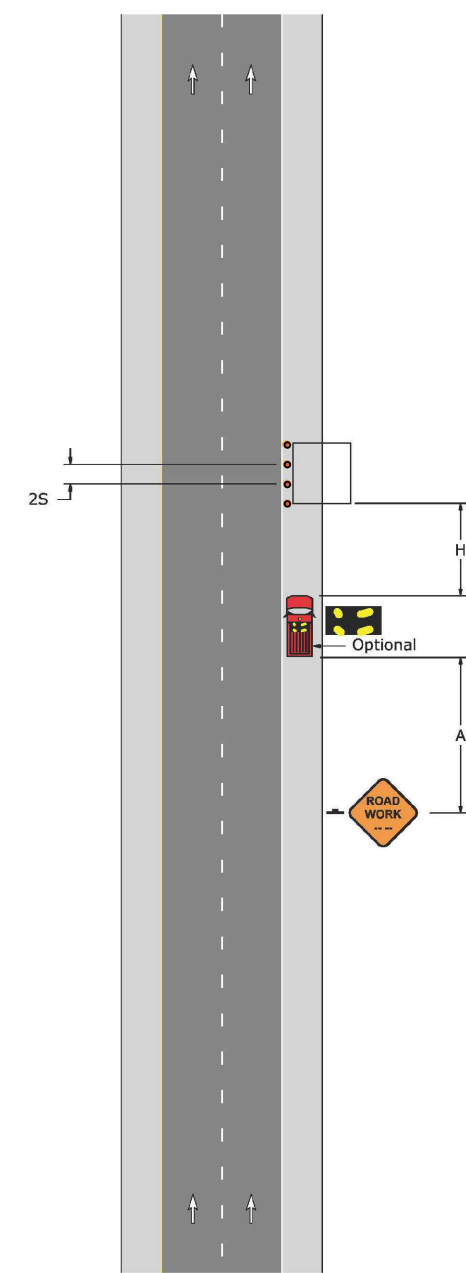
PATA 101-B

1. The shadow vehicle and TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
2. For operations of 60 minutes or less, all TTC devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
3. When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign.



Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing		Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)	
25	50	100 - 200	500 - 800	150
30	60	100 - 200	500 - 800	150
35	70	100 - 200	500 - 800	150
40	80	350 - 500	500 - 800	150
45	90	350 - 500	500 - 800	150
50	100	350 - 500	500 - 800	250
55	110	350 - 500	500 - 800	250

PATA 101-B



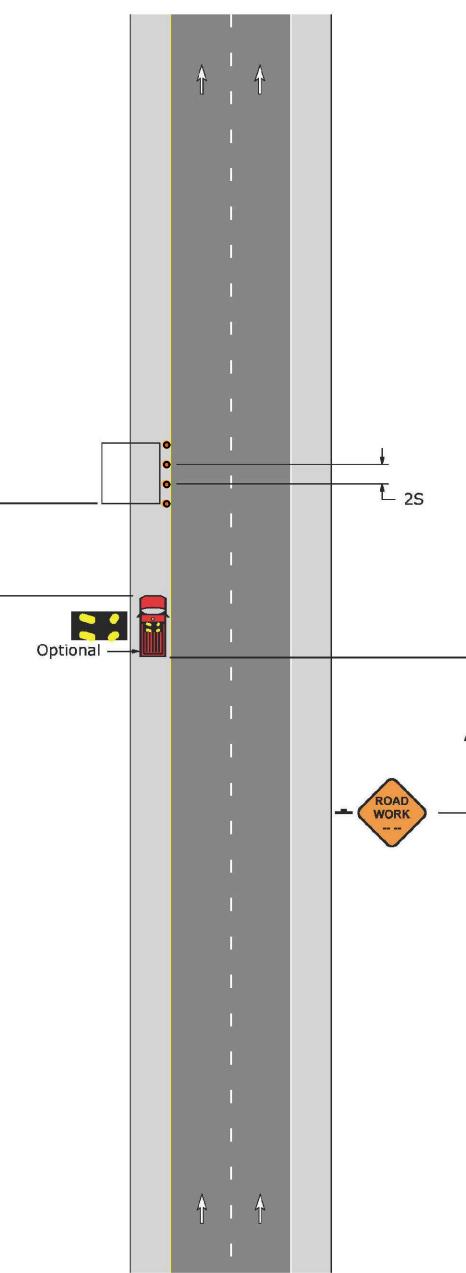
PATA 101-C

1. The shadow vehicle and TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
2. For operations of 60 minutes or less, all TTC devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
3. When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign.



Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing		Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)	
25	50	100 - 200	500 - 800	150
30	60	100 - 200	500 - 800	150
35	70	100 - 200	500 - 800	150
40	80	350 - 500	500 - 800	150
45	90	350 - 500	500 - 800	150
50	100	350 - 500	500 - 800	250
55	110	350 - 500	500 - 800	250

PATA 101-C



PATA 107

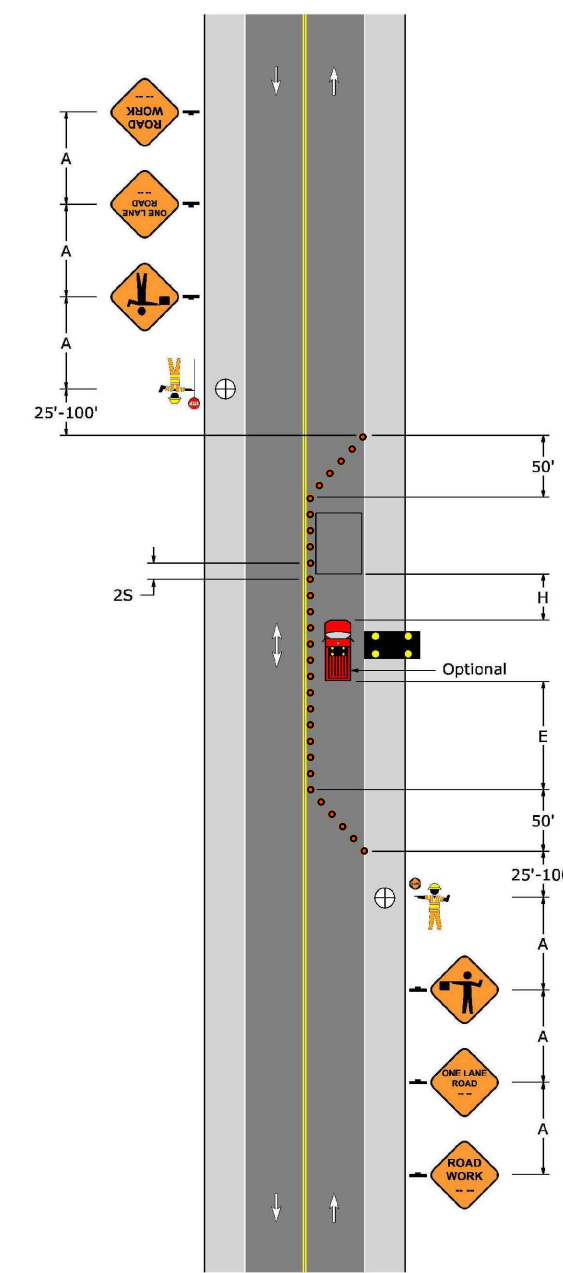
1. Flaggers shall be clearly visible to traffic for a minimum distance of E.
2. For operations of 15 minutes or less:
 - a) The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
 - b) All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
3. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number Of Channelizing Devices		
Speed S (MPH)	50' Per Lane Taper Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

PATA 107



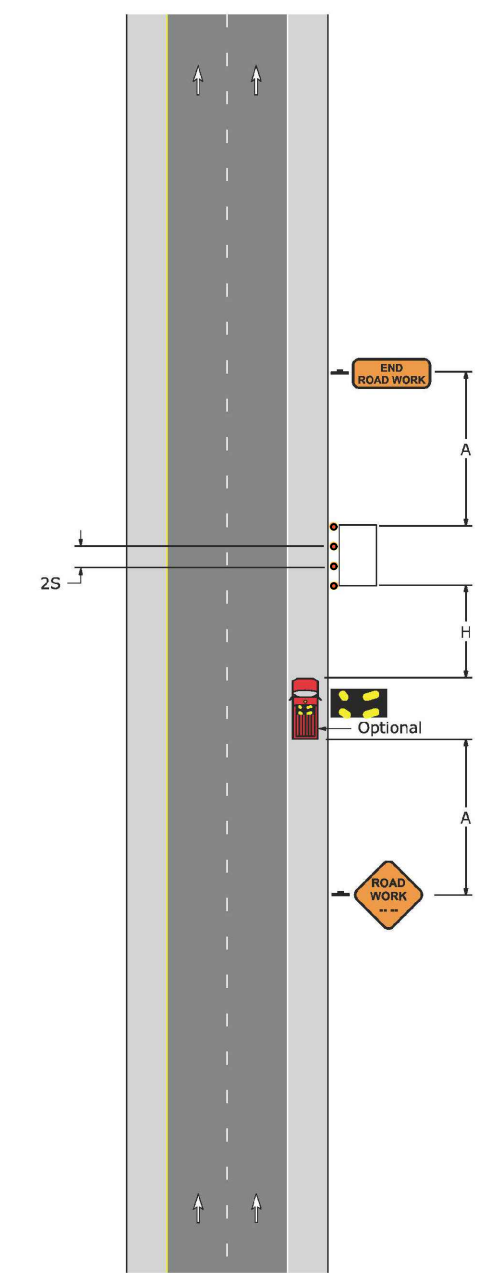
PATA 201-B

1. TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
2. When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign location to beginning of the work space.



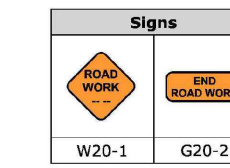
Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing		Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)	
25	50	100 - 200	500 - 800	150
30	60	100 - 200	500 - 800	150
35	70	100 - 200	500 - 800	150
40	80	350 - 500	500 - 800	150
45	90	350 - 500	500 - 800	150
50	100	350 - 500	500 - 800	250
55	110	350 - 500	500 - 800	250

PATA 201-B



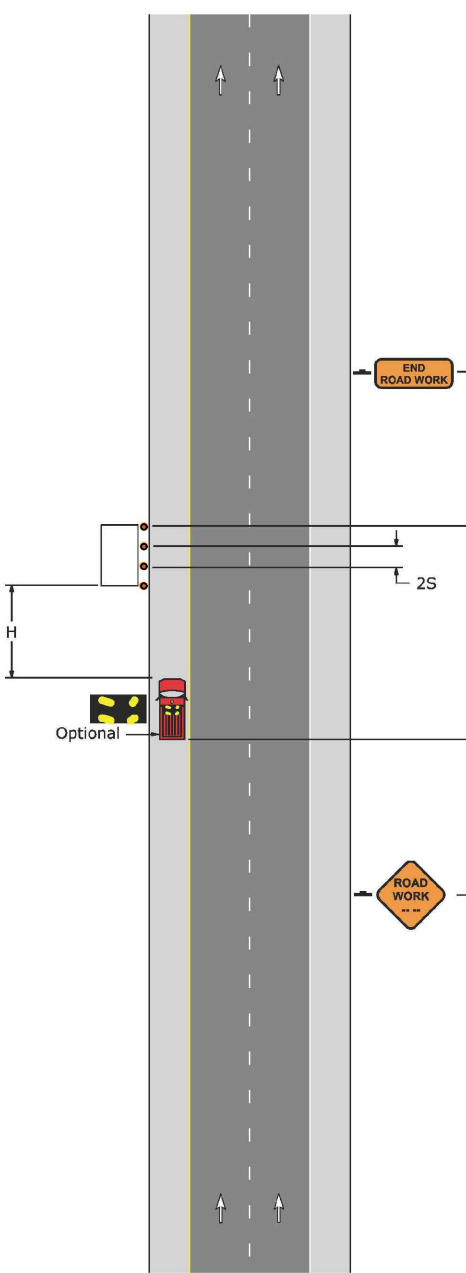
PATA 201-C

1. TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
2. When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign location to beginning of the work space.



Speed S (MPH)	Channelizing Device Spacing 2S (Feet)	Sign Spacing		Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)	
25	50	100 - 200	500 - 800	150
30	60	100 - 200	500 - 800	150
35	70	100 - 200	500 - 800	150
40	80	350 - 500	500 - 800	150
45	90	350 - 500	500 - 800	150
50	100	350 - 500	500 - 800	250
55	110	350 - 500	500 - 800	250

PATA 201-C



LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251550

REVISIONS	
DATE	DESCRIPTION

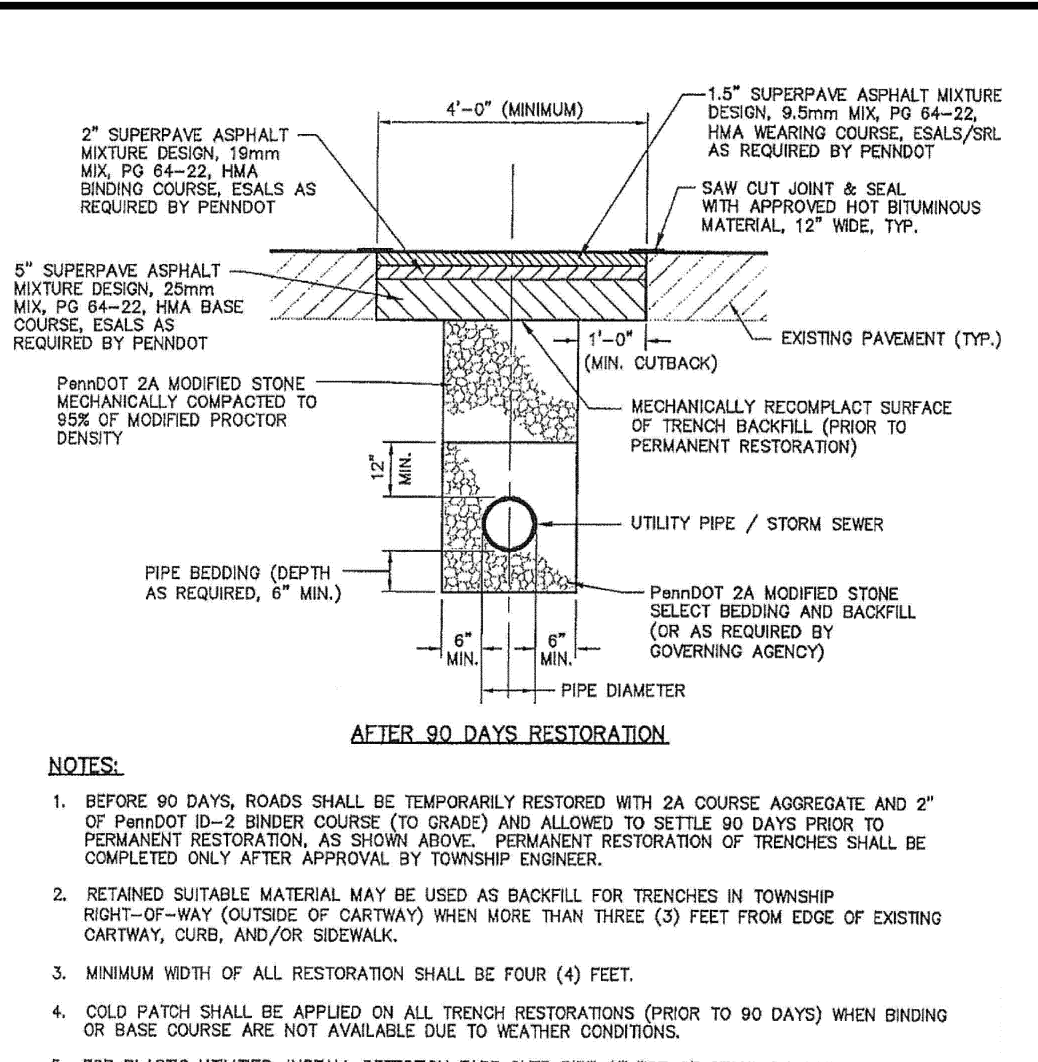
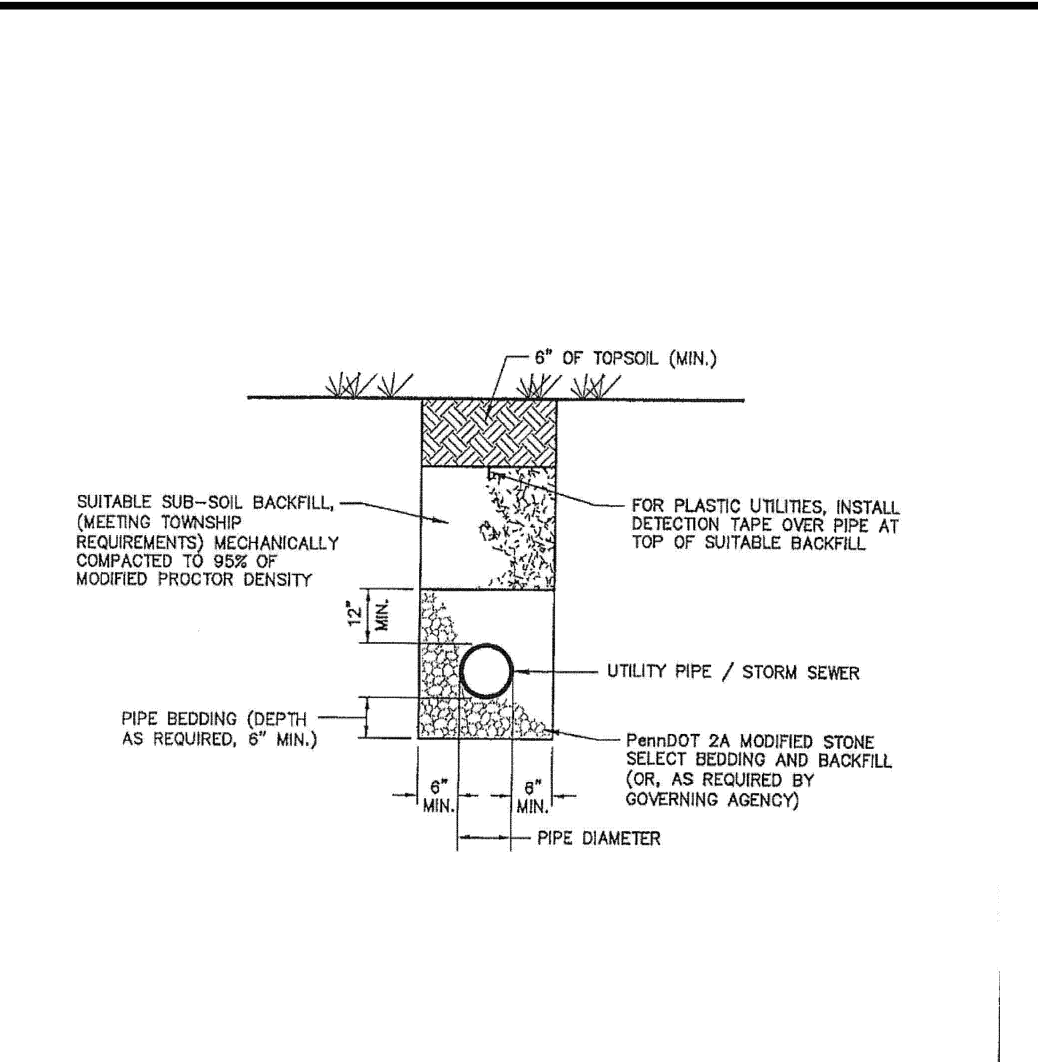
GALENA RESERVE MOBILE HOME PARK TRAFFIC CONTROL DETAILS
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND XREF ECP

SCALE: AS SHOWN

SHEET No. 47 OF 49



- NOTES:**
- BEFORE 90 DAYS, ROADS SHALL BE TEMPORARILY RESTORED WITH 2A COURSE AGGREGATE AND 2\"/>

STORM SEWER & UTILITY TRENCH RESTORATION WITHIN PAVED AREAS DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

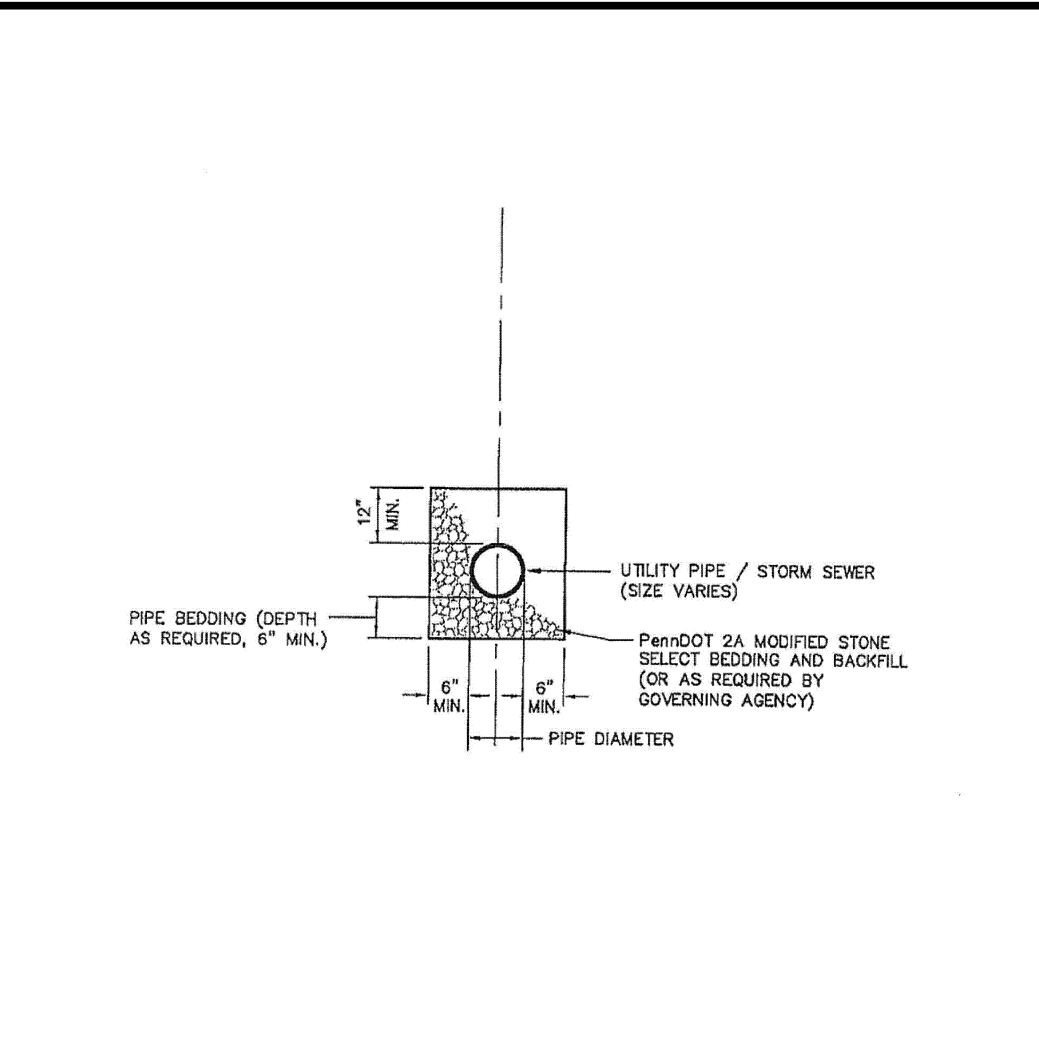
GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 6 of 17

STORM SEWER & UTILITY TRENCH RESTORATION WITHIN PAVED AREAS DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

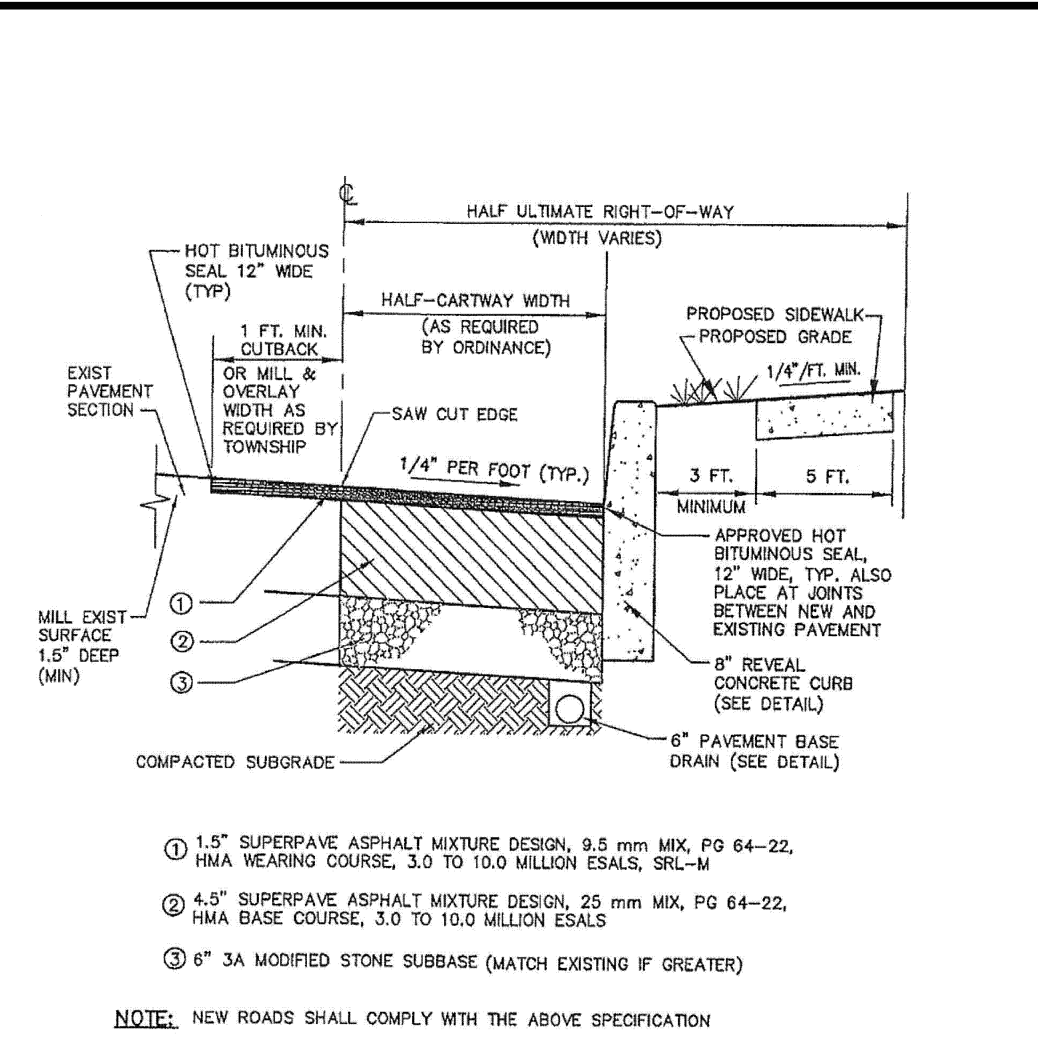
DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 5 of 17



PIPE BEDDING DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 4 of 17

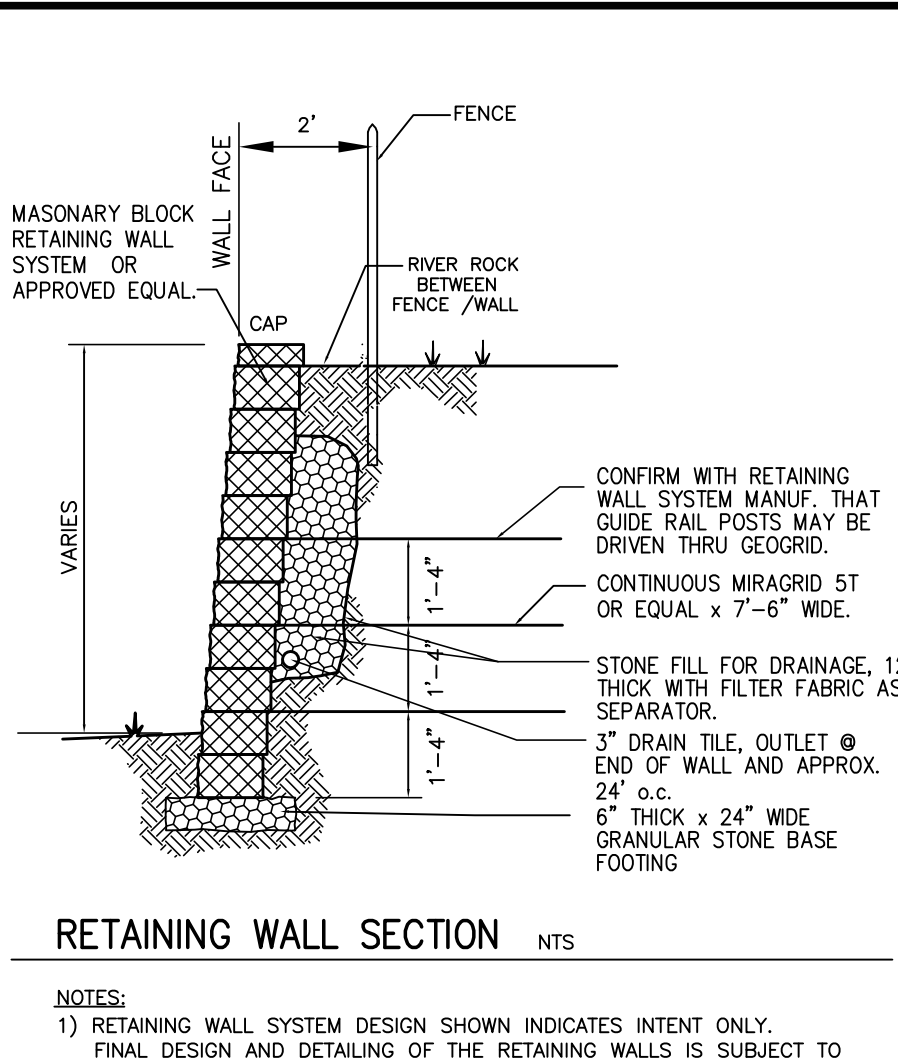


TYPICAL ROADWAY WIDENING SECTION DETAIL FOR RESIDENTIAL AND LOCAL ROADS
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 3 of 17

- GENERAL CONSTRUCTION NOTES**
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA
- ALL CONSTRUCTION METHODS AND MATERIALS MUST COMPLY WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, LATEST REVISION.
 - ALL PROPOSED STRUCTURES AND FACILITIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 72, "ROAD CONSTRUCTION STANDARDS", LATEST REVISION.
 - ALL PROPOSED STREETS, ACCESS DRIVES, DRIVEWAYS AND UTILITIES SHALL COMPLY WITH THE PENNSYLVANIA CODE, TITLE 87, CHAPTER 445, "ACCESS TO AND OCCUPANCY OF HIGHWAYS BY UTILITIES", LATEST REVISION.
 - ALL PROPOSED STRUCTURES AND FACILITIES MUST COMPLY WITH THE AMERICANS WITH DISABILITY ACT, "ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES", LATEST REVISION.
 - ALL PROPOSED WATER AND SEWER FACILITIES MUST COMPLY WITH THE STANDARDS AND POLICIES OF THE APPLICABLE WATER AUTHORITY, GENER AUTHORITY, BUCKS COUNTY HEALTH DEPARTMENT, PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND NEW BRITAIN TOWNSHIP.
 - ALL CONTRACTORS SHALL BE RESPONSIBLE FOR ENSURING ALL CONSTRUCTION ACTIVITIES ARE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND POLICIES OF THE BUCKS COUNTY CONSERVATION DISTRICT.
 - ALL CONTRACTORS SHALL BE RESPONSIBLE FOR ENSURING ALL CONSTRUCTION ACTIVITIES ARE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND POLICIES OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
 - ALL CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL UTILITIES AND COMPLYING WITH THE PENNSYLVANIA ACT 38 AND ACT 187, AS AMENDED.
 - ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND.
 - ALL CONTRACTORS WORKING ON THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, No. 287, 12/10/74, AS AMENDED; P.L. 1074, SUBSECTION AND P.L. 1074, SUBSECTION AND P.L. 1074, SUBSECTION.
 - CONTRACTOR SHALL NOT ENDOUR ON ADJUTING PROPERTIES UNLESS A TEMPORARY CONSTRUCTION EASEMENT HAS BEEN GRANTED BY ADJUTING PROPERTY OWNER. CONTRACTOR SHALL HAVE PROPERTY LINES CLEARLY MARKED IN AREAS WHERE GRADING WILL ENDOUR WITHIN 5 FEET OF THE PROPERTY LINE. CONTRACTOR SHALL CONSTRUCT BARRIERS WHICH ARE NECESSARY TO PREVENT ENDOURMENT ON ADJUTING PROPERTIES.
 - NO EXCAVATION OR FILL SHALL BE MADE WITH A FACE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.



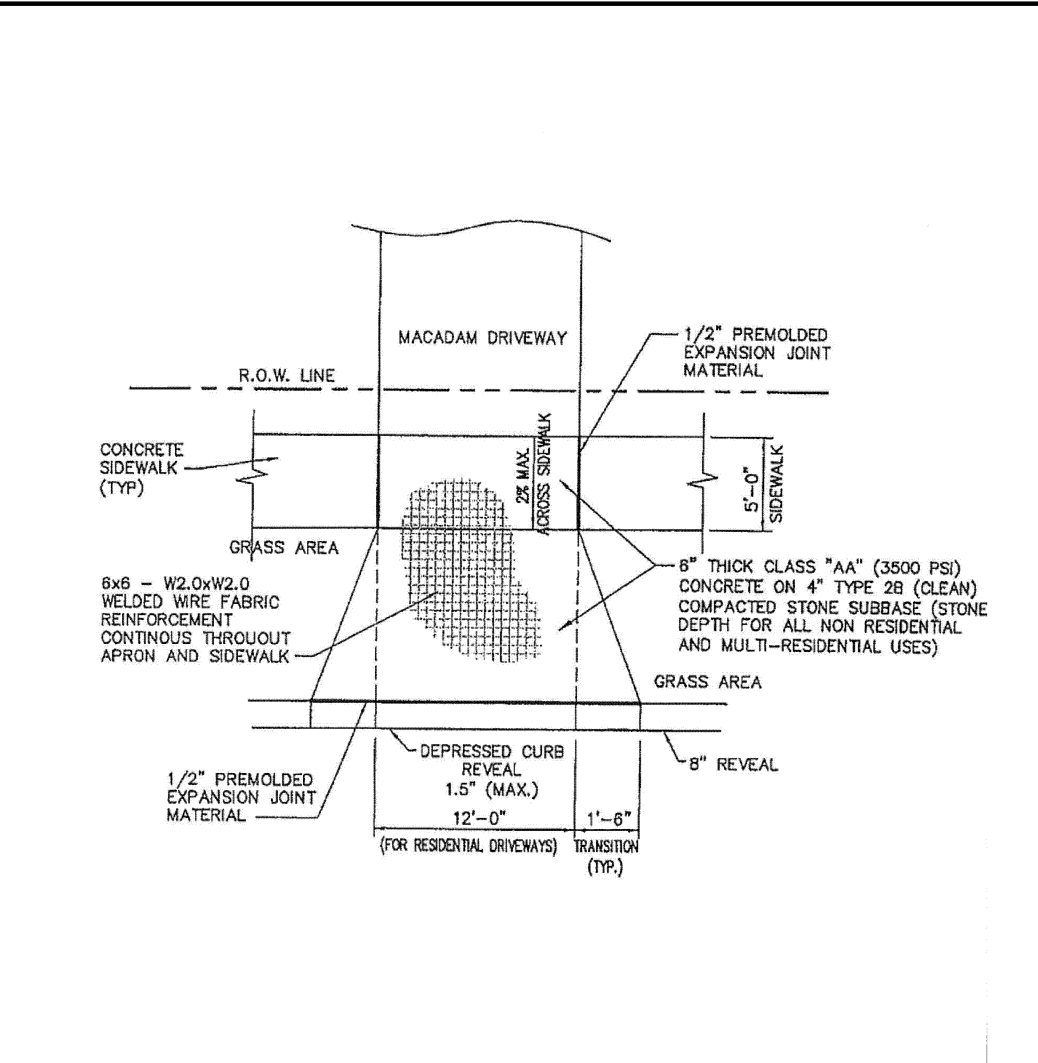
RETAINING WALL SECTION
NTS

NOTES:

- RETAINING WALL SYSTEM DESIGN SHOWN INDICATES INTENT ONLY. FINAL DESIGN AND DETAILING OF THE RETAINING WALLS IS SUBJECT TO THE REVIEW OF THE RETAINING WALL SYSTEM MANUFACTURER. DRAWINGS WILL BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER AT THAT TIME AND SUBMITTED FOR TOWNSHIP REVIEW AND BUILDING PERMIT PRIOR TO START OF CONSTRUCTION.



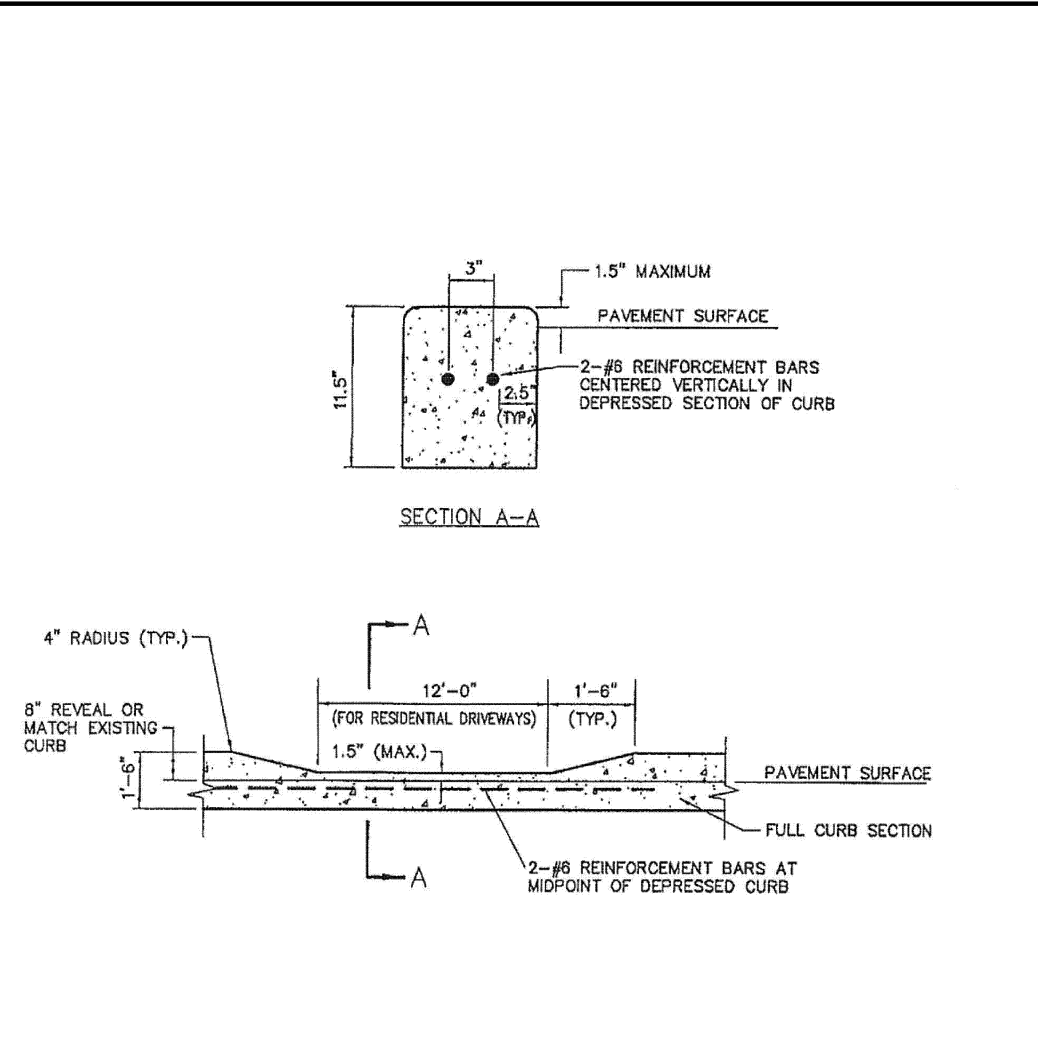
CURB END TREATMENT DETAIL
NTS



DRIVEWAY AND APRON DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

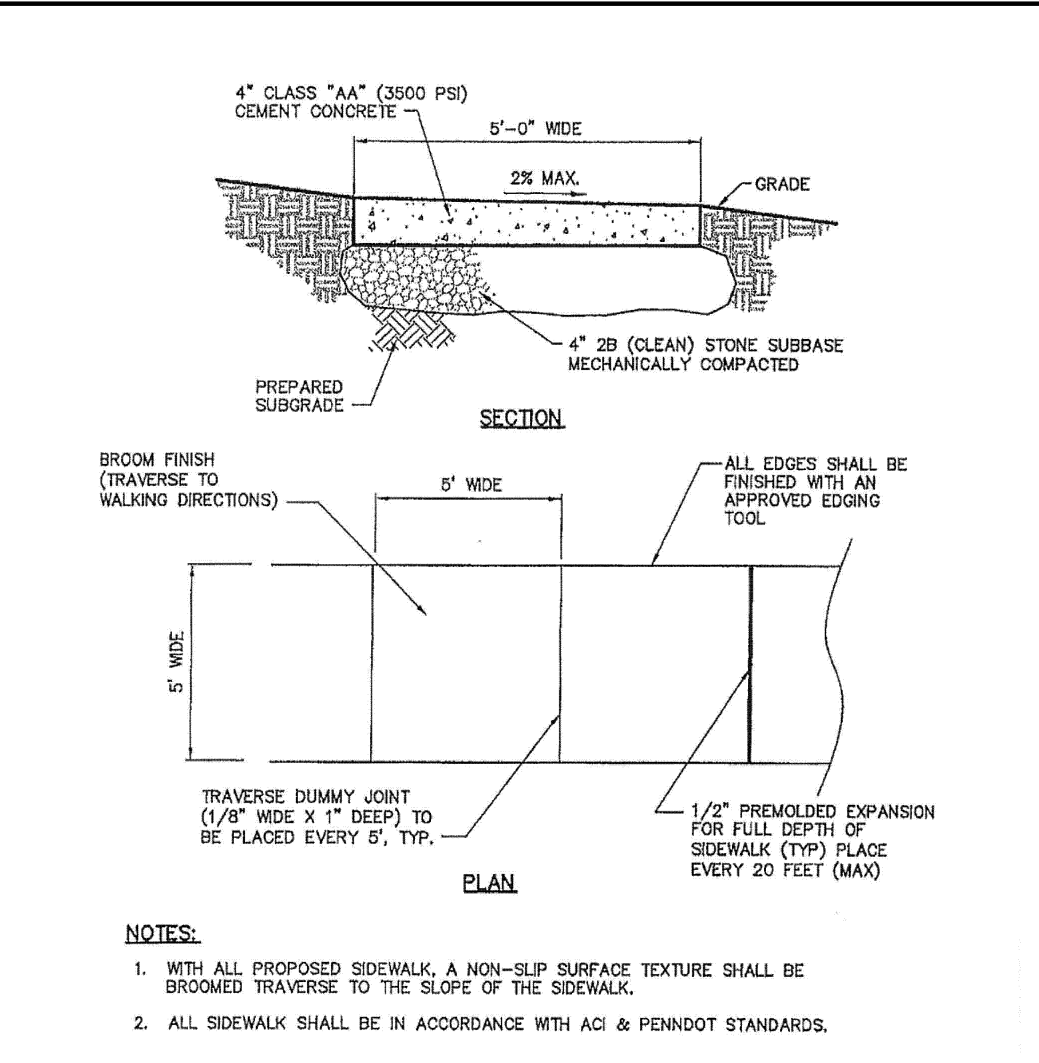
DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 13 of 17



DEPRESSED CURB DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

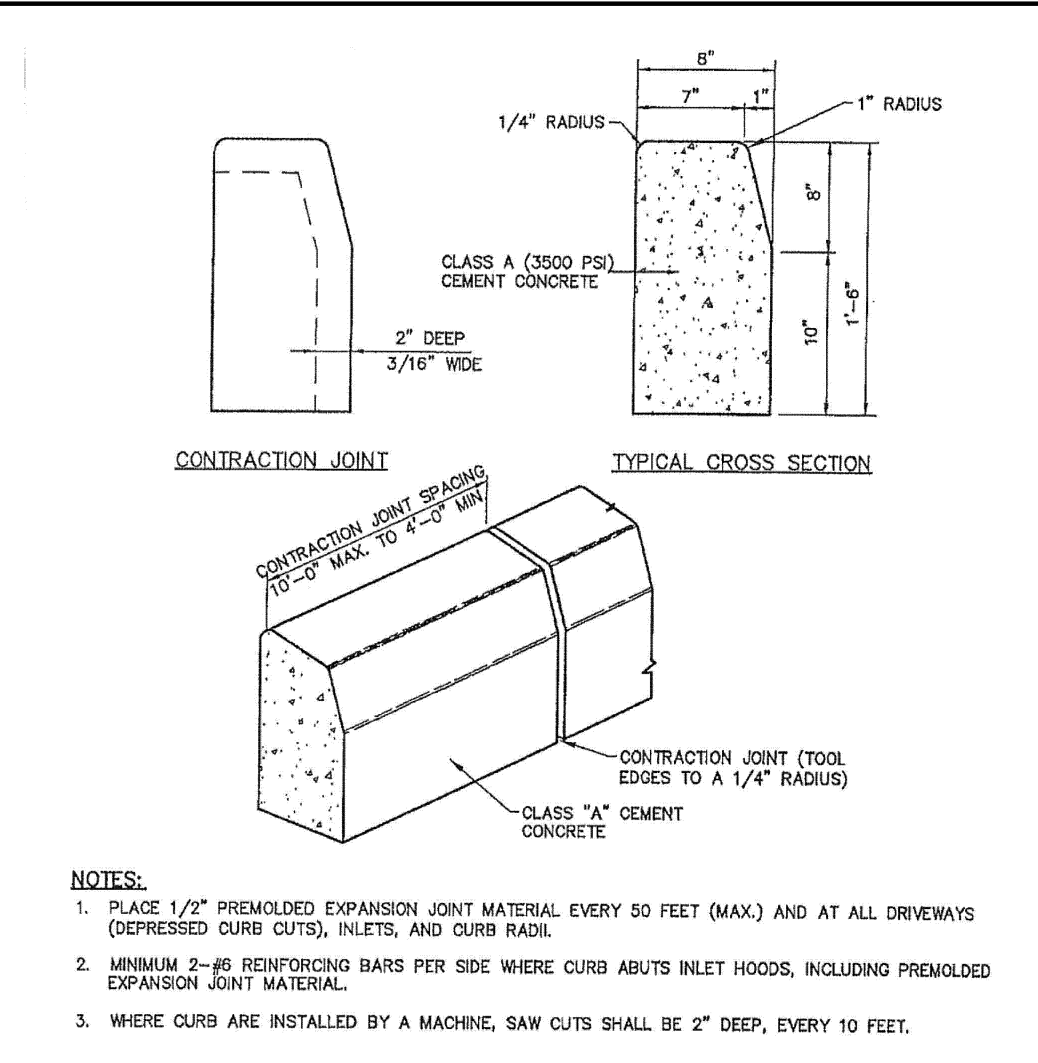
DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 12 of 17



CONCRETE SIDEWALK DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

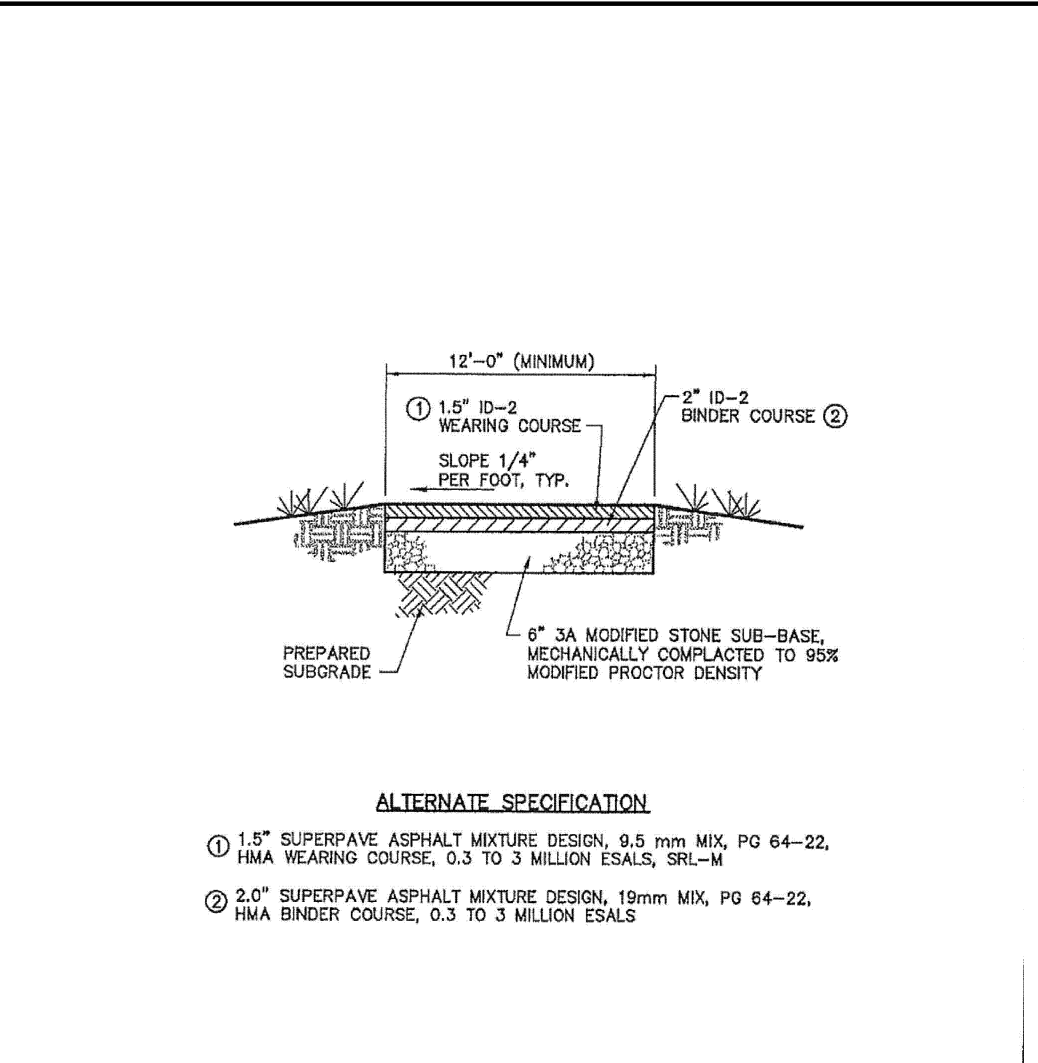
DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 11 of 17



PLAIN CEMENT CONCRETE CURB DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

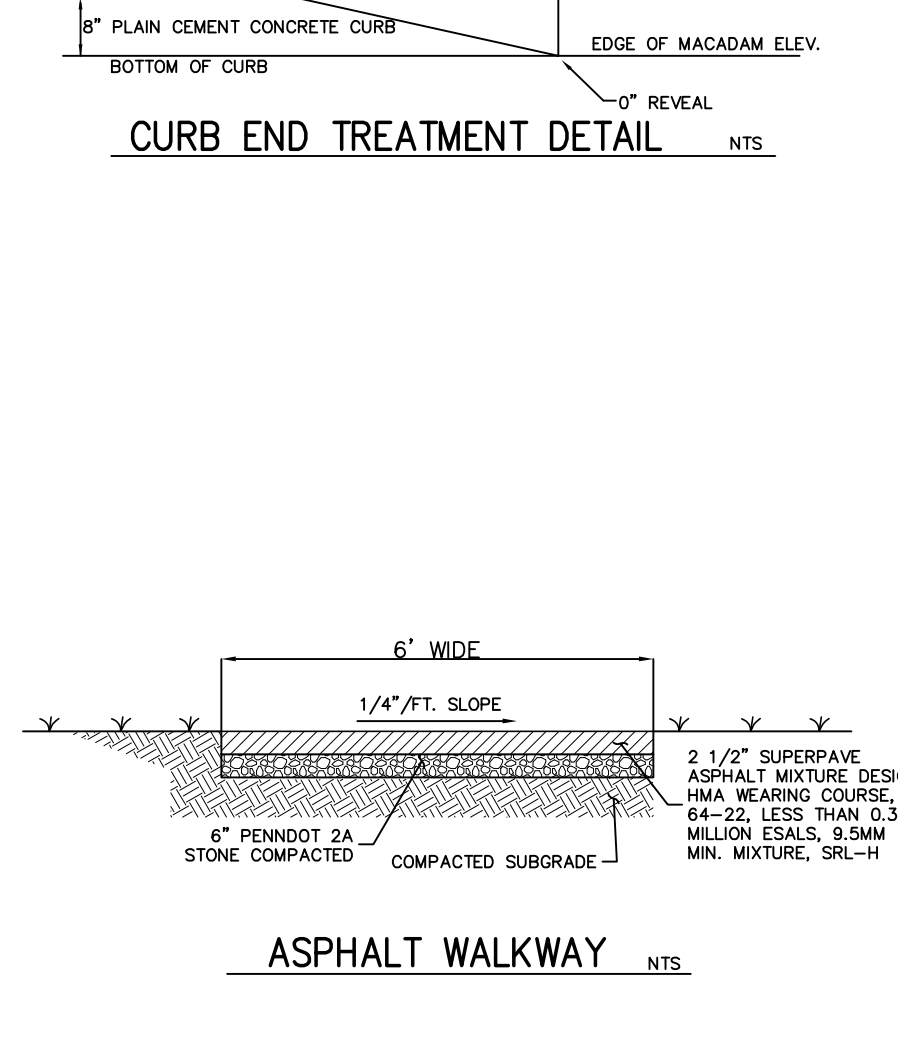
DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 9 of 17



RESIDENTIAL DRIVEWAY PAVING SECTION DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 7 of 17



ASPHALT WALKWAY
NTS

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 20183251550

DATE	REVISIONS	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
GENERAL CONSTRUCTION DETAIL PLAN
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND



URWILER & WALTER, INC.
CIVIL ENGINEERS & SURVEYORS
P.O. BOX 269 3126 MAIN STREET SUMNEYTOWN, PA. 18084
PHONE 215-234-4562 FAX 215-234-0889 www.urwilerwalter.com

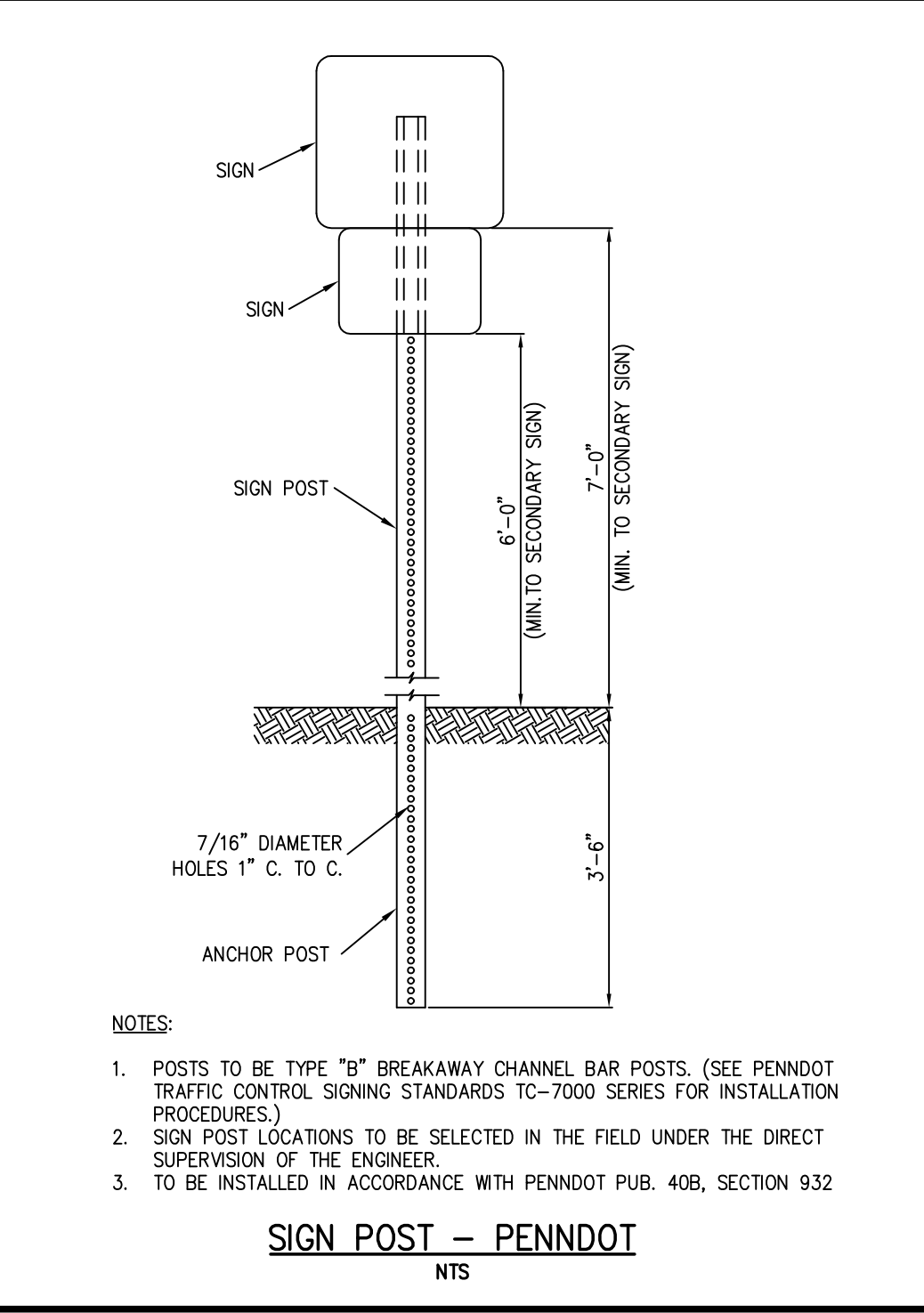


(R1-1) 'STOP' SIGN DETAIL
NTS

NOTES:

- REFER TO PA. DOT PUB. 68 - OFFICIAL TRAFFIC-CONTROL DEVICES - TITLE 87, CHAPTER 211 - SECTION 211.52 FOR ADDITIONAL NOTES.
- ALL SIGNAGE MUST BE INSTALLED ON PENNDOT STANDARD BREAKAWAY POSTS.

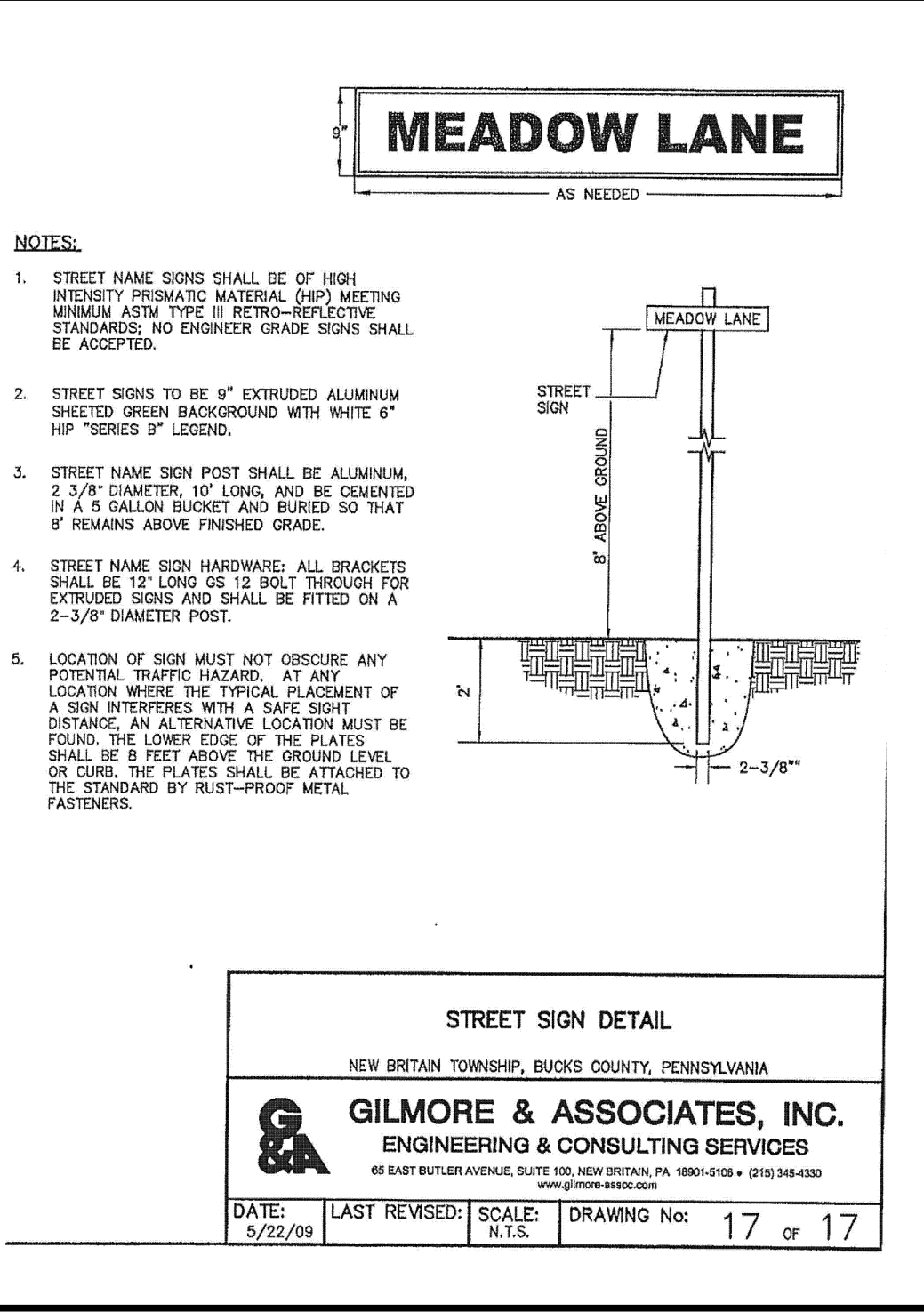
SIGN POST - PENNDOT
NTS



STREET SIGN DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

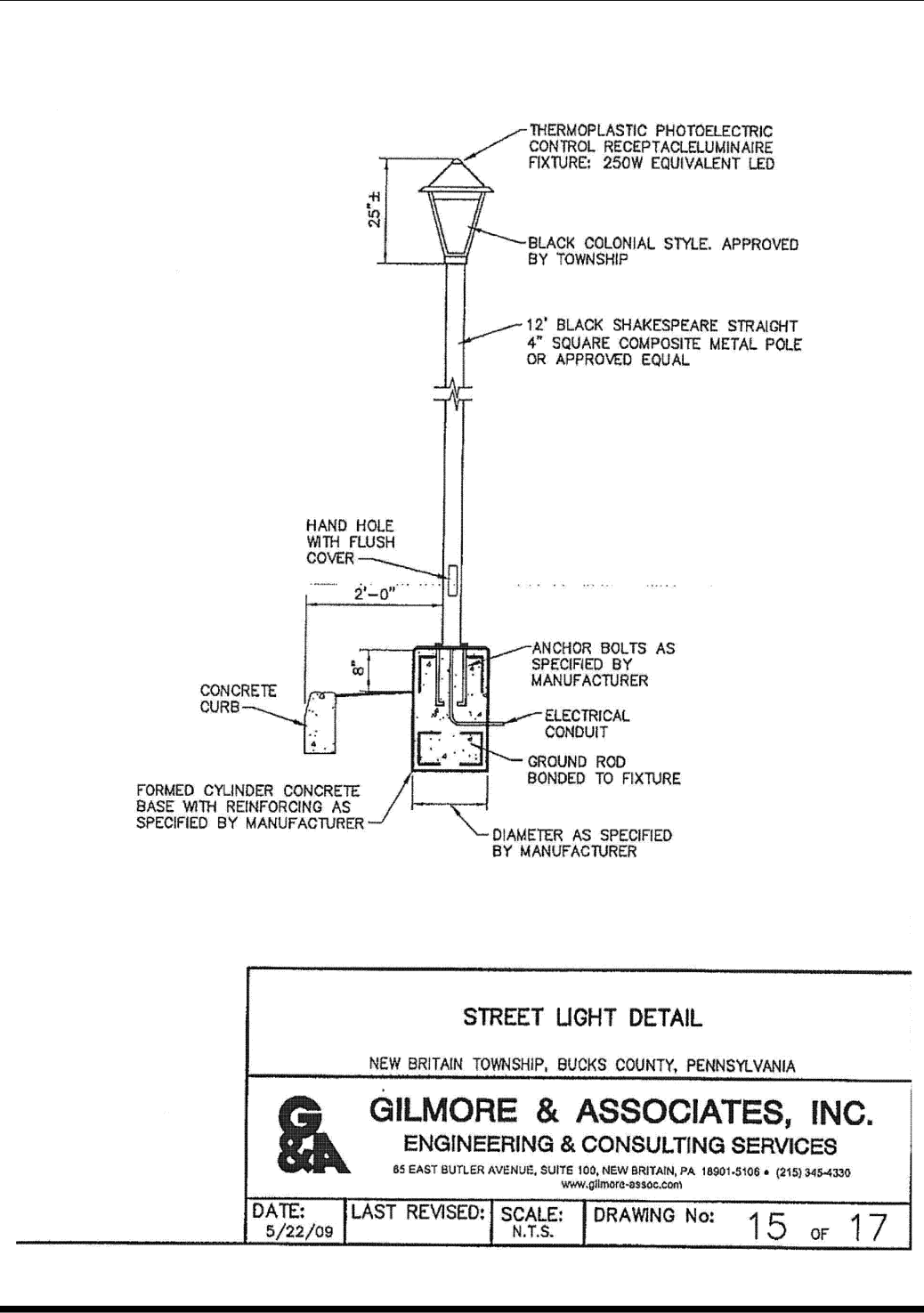
DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 17 of 17



STREET LIGHT DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

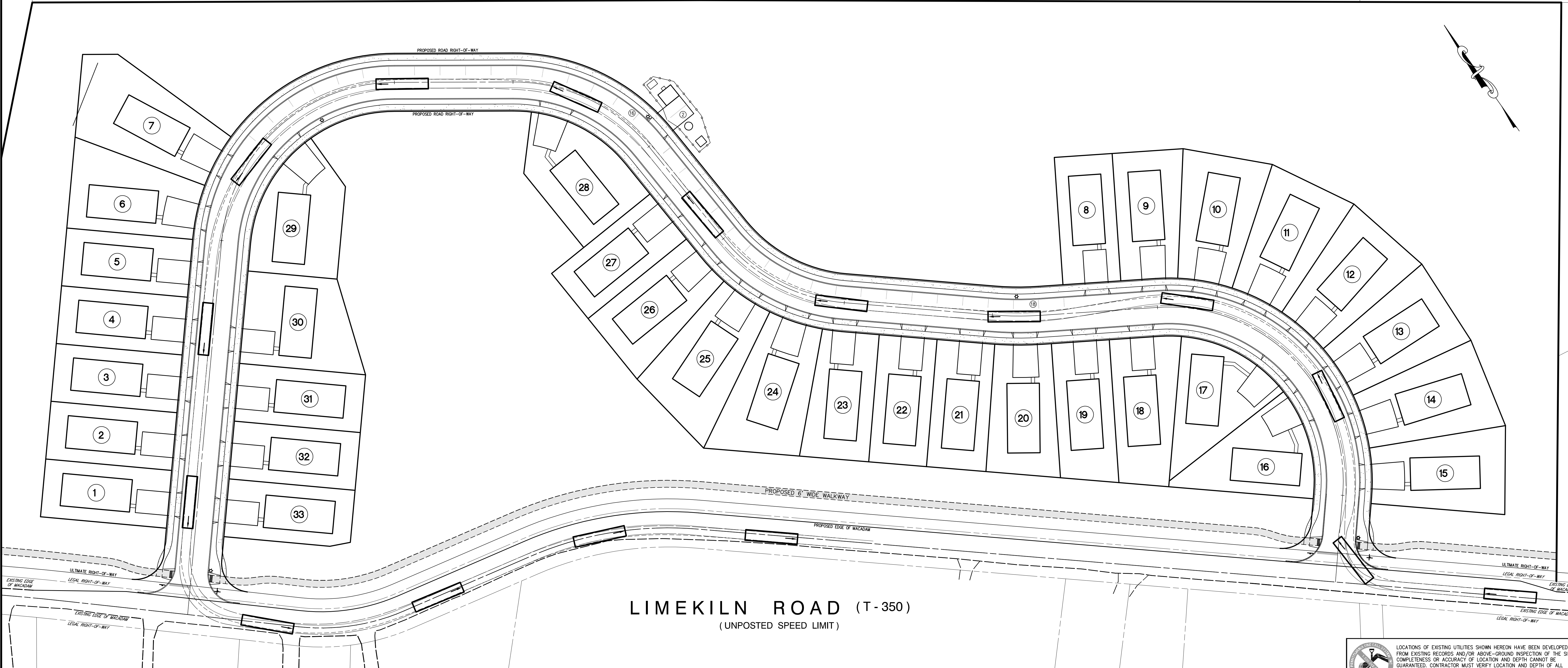
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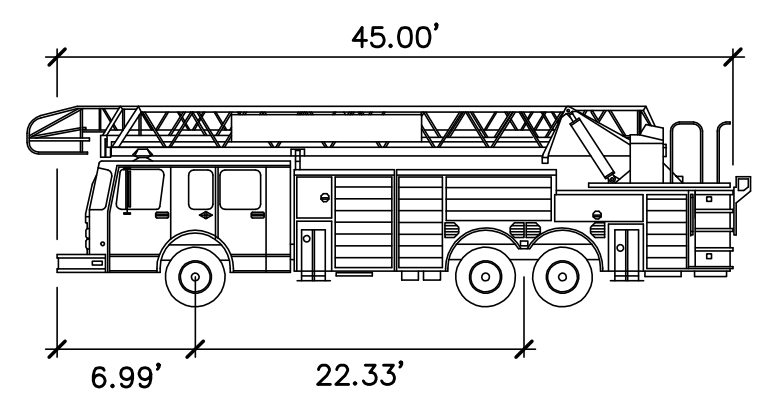
ROAD UNDERDRAIN DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

DATE: 5/22/09 LAST REVISED: N.T.S. SCALE: N.T.S. DRAWING No: 14 of 17



LIMEKILN ROAD (T-350)
(UNPOSTED SPEED LIMIT)



EMERGENCY RESPONSE VEHICLE
NOT TO SCALE

PARAMETERS:

LENGTH	45 FEET
WIDTH	9.07 FEET
TRACK	7.69 FEET
WHEELBASE	22.33 FEET
FRONT BUMPER OVERHANG	6.99 FEET
STEERING ANGLE	40 DEGREES

UTILIZED MINIMUM 45' OUTSIDE TURN RADIUS

LEGEND

EXISTING EDGE OF MACADAM	---
PROPOSED CONCRETE CURB	====
PROPOSED EDGE OF MACADAM	----
TRUCK FRONT RIGHT PATH	-----
TRUCK FRONT LEFT PATH	-----
TRUCK REAR LEFT PATH	-----
TRUCK REAR RIGHT PATH	-----

LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND INSPECTION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE START OF WORK BY CALLING PA ONE CALL (DIAL 811) THREE DAYS PRIOR TO EXCAVATION. REFERENCE NUMBER: 201832515500

REVISIONS	
DATE	DESCRIPTION

GALENA RESERVE MOBILE HOME PARK
TRUCK TURN PATH PLAN "FIRE TRUCK"
PREPARED FOR
RHG PROPERTIES, LLC.

SITUATE IN
NEW BRITAIN TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

SEPTEMBER 23, 2022
PROJECT No. 18075
FILE: 18075-LAND

