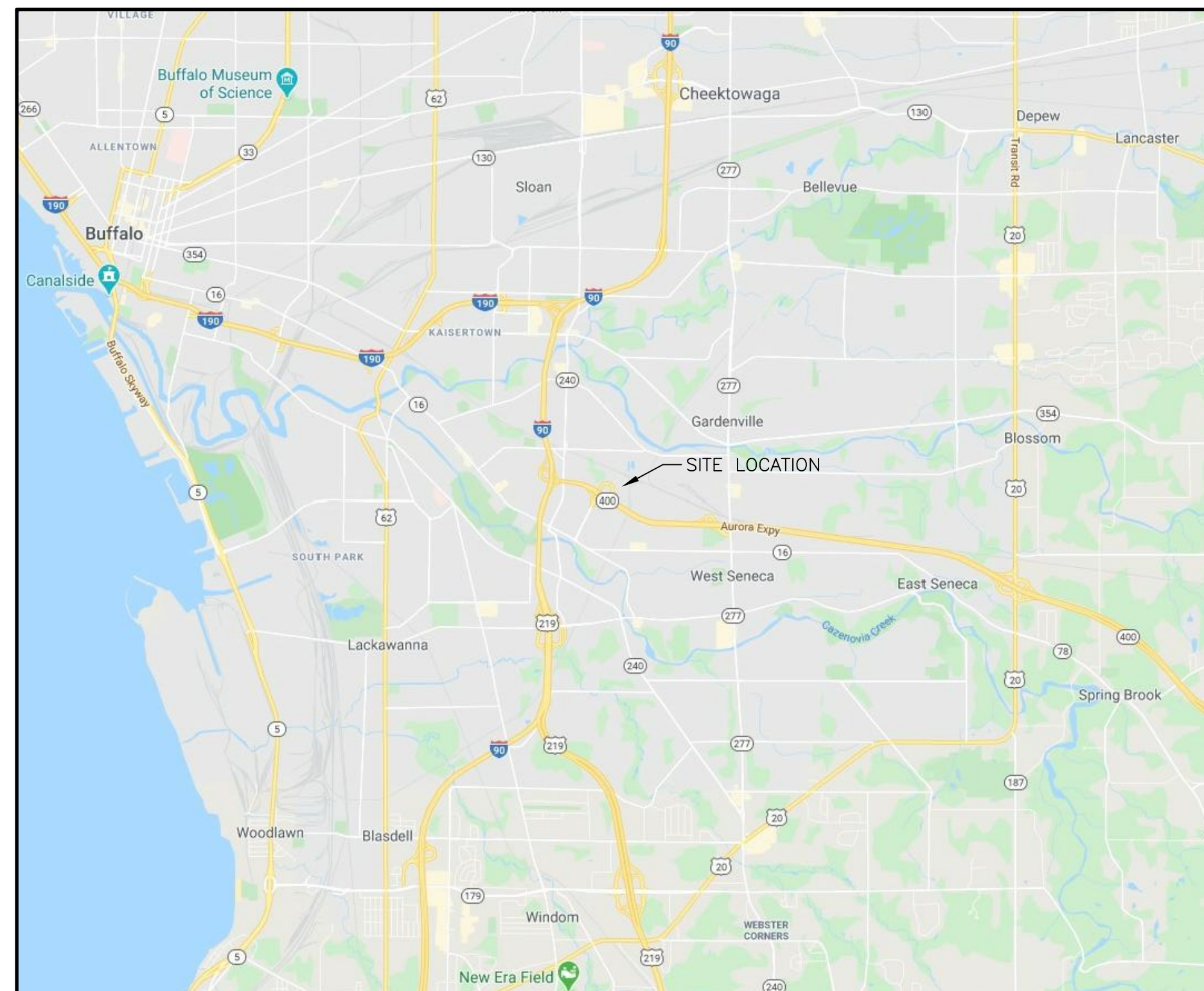


NEW CRUDE OIL STORAGE TANK 704 PROJECT

KIATONE PIPELINE CORPORATION

TOWN OF WEST SENECA,
ERIE COUNTY NEW YORK

FISHER PROJECT #: 190626



LOCATION MAP
NOT TO SCALE

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DIG SAFELY NEW YORK

1. CALL BEFORE YOU DIG: IF YOU PLAN TO DIG OR DO ANY TYPE OF EXCAVATION WORK, NEW YORK STATE LAW REQUIRES YOU CALL DIG SAFELY NEW YORK PRIOR TO DOING SO.
1. WAIT THE REQUIRED TIME: YOU NEED TO PROVIDE TWO FULL WORKING DAYS NOTICE PRIOR TO STARTING YOUR WORK, NOT COUNTING THE DAY OF YOUR CALL, WEEKENDS OR HOLIDAYS. THIS PROVIDES TIME FOR THE UTILITIES TO LOCATE YOUR PROPOSED DIG SITE.
2. CONFIRM UTILITY RESPONSE: DIG SAFELY NEW YORK WILL NOTIFY ALL MEMBER UTILITIES OF THE PENDING EXCAVATION SO THAT THEY CAN COME OUT AND MARK THE LOCATION OF THEIR UNDERGROUND LINES. BEFORE DIGGING ON YOUR STATED COMMENCEMENT DATE CONFIRM THAT ALL UTILITIES HAVE RESPONDED TO YOU INDICATING THEY HAVE MARKED YOUR PROPERTY OR THEY HAVE NO FACILITIES PRESENT.
3. RESPECT THE MARKS: BEFORE YOU BEGIN YOUR EXCAVATION, WALK THROUGH THE SITE TO FAMILIARIZE YOURSELF WITH THE MARKINGS AND THE LOCATIONS OF BURIED FACILITIES.
4. DIG WITH CARE: IT IS IMPORTANT EXCAVATORS TAKE A PROACTIVE APPROACH TO SAFETY NOT ONLY FOR THEMSELVES BUT FOR THE PUBLIC BY INITIATING THE ONE CALL PROCESS AND ADHERING TO THE FIVE STEPS OF A SAFE EXCAVATION.
5. FISHER ASSOCIATES P.E., L.S., L.A., D.P.C. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE.

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DATE/TIME: 4/1/2020 11:17:02 AM
USER: Justin Cree

**Dig Safely.
New York**
800-962-7962
www.digsafelynewyork.org

- Call Before You Dig
- Wait The Required Time
- Confirm Utility Response
- Respect the Marks
- Dig With Care



PREPARED BY:



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PERMIT PLANS
ISSUED ON
APRIL 3, 2020

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 DATE/TIME: 4/1/2020 11:33:37 AM
 USER: Justin Cree

EROSION CONTROL NOTES

1. A COPY OF THE APPROVED DRAWINGS (STAMPED SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN PREPARER, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE NEW YORK ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-962-7962 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY DEC PRIOR TO IMPLEMENTATION.
5. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY COMMENCE IN AREAS WHERE E&S BMP'S AREA BEING INSTALLED CONCURRENTLY AS DESCRIBED.
6. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF (BOUNDARY TO BE FLAGGED AND PERIMETER CONTROLS INSTALLED PER PLAN) CONCURRENTLY WITH CLEARING AND GRUBBING OPERATIONS.
7. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.
8. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMP'S TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF DEC.
9. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
10. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR DEC FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL.
12. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
13. UNTIL THE SITE IS STABILIZED, ALL E&S BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL E&S BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADEING, RESEEDING, REMULCHING AND RENEETING MUST BE PERFORMED IMMEDIATELY. IF E&S BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
14. A LOG SHOWING DATES THAT E&S BMP'S 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.
15. 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. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
16. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
17. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 4 INCHES PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
18. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
19. ALL FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
20. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
21. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
22. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
23. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
24. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 4 DAYS UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.
25. WITHIN 4 DAYS AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT EXCLUDING PIPE TRENCHES AND TIE-IN PITS, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
26. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 80% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
27. E&S BMP'S MUST REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR DEC.
28. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMP'S.
29. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMP'S MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMP'S. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMP'S MUST BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS SHOULD BE DONE ONLY DURING THE GERMINATING SEASON.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
31. FAILURE TO CORRECTLY INSTALL E&S BMP'S, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMP'S MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES.
32. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
33. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
34. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER (WITHIN 100 FEET IN SPECIAL PROTECTION WATERSHEDS) AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS. DO NOT INSTALL EROSION CONTROL BLANKETING IN WETLANDS.
35. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 9" LAYERED LIFTS AT 95% DENSITY.

SEQUENCE OF CONSTRUCTION:

1. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING AND INVITE THE CONSERVATION DISTRICT AND THE E&S CONTROL PREPARER PRIOR TO BEGINNING SITE CONSTRUCTION (AT LEAST SEVEN DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES) TO DISCUSS THE SCOPE OF WORK AND THE IMPLEMENTATION OF E&S CONTROLS DURING EARTH DISTURBANCE ACTIVITIES. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE NEW YORK ONE CALL SYSTEM INCORPORATED AT 1-800-962-7962 FOR BURIED UTILITY LOCATIONS.
2. ALL LIMITS OF DISTURBANCE SHALL BE FIELD MARKED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
3. INSTALL PERIMETER E&S CONTROLS AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. METHOD OF INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH NYSECD REQUIREMENTS AND AS INDICATED ON THE DETAILS.
4. REMOVE ANY TREES OR BRUSH WITHIN THE LIMITS OF DISTURBANCE.
5. STRIP AND STOCKPILE TOPSOIL AND SPOIL WITHIN THE LIMITS OF DISTURBANCE. SOIL STOCKPILES MUST NOT EXCEED 35 FEET (STONES AND BOULDERS MAY BE PLACED ON EDGE OF LOD) & STOCKPILE SLOPES MUST BE 2:1 OR FLATTER. ENSURE AREAS DOWNSLOPE OF THE STOCKPILES HAVE COMPOST FILTER SOCK/FENCE INSTALLED FOR THE ENTIRE LENGTH OF DOWNGRADE TO ENSURE PROTECTION AGAINST SEDIMENT RUNOFF.
6. BEGIN ANY NECESSARY ROUGH GRADING OF THE SITE INCLUDING TANK AREA, DIKE WALL, ACCESS DRIVES, ETC.
7. EXCAVATE NEW WATERLINE TRENCH, TANK & DIKE FOUNDATIONS.
8. INSTALL 6" WATERLINE, BACKFILL AND COMPACT EXISTING TRENCH.
9. INSTALL NEW TANK, DIKE WALL AND ASSOCIATED EQUIPMENT, INCLUDING PIPE SUPPORT RACKS.
10. WITHIN 4 DAYS AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
11. COMPLETE FINAL GRADING.
12. SPREAD TOPSOIL TO FINAL GRADE, APPLY LIME, FERTILIZER AND SEEDING TO DISTURBED AREAS. THEN MULCH OR INSTALL EROSION CONTROL BLANKET (ECB) OVER DISTURBED AREAS AS SHOWN ON THE SITE RESTORATION PLANS.
13. ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREA WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETED AND PERMANENTLY STABILIZED (80% UNIFORM GROWTH). MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PERIMETER E&S CONTROLS CAN BE REMOVED AFTER APPROVAL FROM THE CONSERVATION DISTRICT.

GENERAL NOTES

1. TOPOGRAPHIC INFORMATION OBTAINED FROM ONLINE NYS LIDAR DATA (DATUM NAD83).
2. PROPERTY LINE INFORMATION OBTAINED FROM NYS TAX MAP GIS DATA AND SHOULD BE USED AS REFERENCE ONLY.
3. PLACE EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 AND STEEPER.
4. WHEN CROSSING AN EXISTING UTILITY LINE, THE PROPOSED WATERLINE IS TO BE INSTALLED WITH A MINIMUM 3' OF COVER AND MUST MAINTAIN A MINIMUM 18" OF SEPARATION BETWEEN THE EXISTING UTILITY.
5. INSTALL A TIMBER MAT OVER EXISTING UTILITY LINES UNLESS UTILITY OWNER HAS SPECIAL PROVISIONS.
6. LIMIT OF DISTURBANCE: 8.5 ACRES.

REQUIREMENTS FOR MAINTENANCE OF BMP'S

1. THE OWNER OR OPERATOR WILL ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY, AND AFTER EACH RUNOFF EVENT BY QUALIFIED PERSONNEL TO ASSURE THE EFFECTIVE OPERATION OF BMP'S. A WRITTEN REPORT OF INSPECTIONS WILL BE KEPT WHEN MAINTENANCE IS PERFORMED TO ALLEVIATE A FOUND DEFICIENCY, OR ON A WEEKLY BASIS.
2. THE PERMITTEE SHALL RETAIN RECORDS OF ALL MONITORING INFORMATION INCLUDING INSPECTION REPORTS AS REQUIRED BY THE PERMIT FOR A PERIOD OF FIVE YEARS FROM THE DATE OF THE FINAL STABILIZATION OF THE SITE.
3. REASONABLE STEPS WILL BE TAKEN TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THE TOWNS REQUIREMENTS THAT HAS REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.
4. UPON REDUCTION, LOSS, OR FAILURE OF A BMP, THE OWNER/OPERATOR SHALL TAKE IMMEDIATE ACTION TO RESTORE THE BMP OR PROVIDE AN ALTERNATE METHOD OF TREATMENT.
5. THE OWNER/OPERATOR MUST COMPLY WITH ALL TERMS AND CONDITIONS OF THE TOWN'S REQUIREMENTS.
6. EROSION AND SEDIMENT CONTROL PLANS MUST BE MADE AVAILABLE AT THE SITE OF THE CONSTRUCTION ACTIVITY AT ALL TIMES.
7. THE STAGING OF EARTH DISTURBANCE ACTIVITIES AND MAINTENANCE REQUIREMENTS CONTAINED IN THE E&S PLAN MUST BE FOLLOWED.
8. AN EROSION AND SEDIMENT POLLUTION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED FOR ALL OFF-SITE SPOIL AND BORROW AREAS.

CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE

1. IF THE SITE WILL HAVE EXCESS MATERIAL THAT WILL NEED TO BE EXPORTED TO AN OFF-SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE OWNER. IF ALL CUT AND FILL MATERIALS WILL BE USED AT THE SITE, A NOTIFICATION OF FILL MATERIAL TRANSPORT IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON THE SITE.
2. ALL FILL SHALL COMPLY WITH THE STANDARDS SET FORTH BY THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
3. FILL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH NYS DEC SOLID WASTE GUIDANCE.
4. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED 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 STATE UNLESS OTHERWISE AUTHORIZED. UNCONTAMINATED MEANS UNAFFECTED BY SPILL OR RELEASE, OR IF AFFECTED, LEVELS ARE BELOW RESIDENTIAL SHS.
5. ENVIRONMENTAL DUE DILIGENCE: 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 DATABASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

MAINTENANCE PROGRAM

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION STABILIZATION AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES RELATED ITEMS INCLUDED IN THIS PLAN. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN.
2. THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES.
3. SOIL SEDIMENT REMOVED FROM ANY TEMPORARY CONTROL MEASURE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE.
4. AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.
5. CLEAN ALL CONSTRUCTION EQUIPMENT AND VEHICLES THOROUGHLY (ESPECIALLY THE UNDERCARRIAGE AND WHEELS) BEFORE THEY ARE BROUGHT ON SITE. THIS WILL REMOVE INVASIVE PLANT SEEDS FROM THE EQUIPMENT AND UNDERCARRIAGES OF THE VEHICLES THAT MAY HAVE BEEN PICKED UP AT OTHER SITES.

RESTORATION OF PLANTED AREAS

1. IF EARTH DISTURBANCE OCCURS DURING THE MONTHS OF OCTOBER THROUGH MARCH, THEN A WINTER RYE SHALL BE APPLIED TO DISTURBED AREAS AS A TEMPORARY SEED MIXTURE.
2. FINAL RESTORATION SHALL BE PERFORMED NO LATER THAN THE START OF THE NEXT PLANTING SEASON FOLLOWING CONSTRUCTION. THE PLANTING SEASON SHALL BE ESTABLISHED BY THE U.S. AGRICULTURAL SERVICE FOR THE AREA OF CONSTRUCTION.
3. TOPSOIL SHALL BE FREE FROM SUBSOIL, BRUSH, WEEDS, OR OTHER LITTER, CLAY LUMPS AND STONES, BUT MAY CONTAIN DECAYING VEGETATION AS IS PRESENT IN GOOD TOPSOIL.
4. PRECAUTIONS SHALL BE EXERCISED AS NECESSARY TO CONFORM WITH LAWS RELATING TO EROSION AND SEDIMENT CONTROL.
5. SEED SHALL NOT BE MORE THAN ONE (1) YEAR OLD. GERMINATION TESTS OF SEEDS SHALL BE MADE NOT MORE THAN SIX (6) MONTHS PRIOR TO SEEDING. SEED THAT HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED SHALL NOT BE USED.
6. ALL SEED MIXTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO SEEDING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PRODUCE A STAND OF GRASS IN ALL SEEDED OR SODDED AREAS. EROSION, DROUGHT, OR ANY OTHER CONDITION ENCOUNTERED SHALL NOT RELIEVE THE CONTRACTOR OF THIS REQUIREMENT.

FILTER SOCK/FENCE MAINTENANCE

1. THE FILTER SOCK/FENCE SHALL BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF EVENT. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
2. ACCUMULATED SEDIMENT WILL BE REMOVED AS REQUIRED TO KEEP THE SOCK/FENCE FUNCTIONAL IN ALL CASES. REMOVE DEPOSITS WHERE ACCUMULATED REACH 1/2 ABOVE THE GROUND HEIGHT OF THE SOCK/FENCE.
3. ALL UNDERCUTTING OR EROSION OF THE TOE OR SHALL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIAL.
4. ADHERE TO MANUFACTURERS RECOMMENDATIONS FOR REPLACING FILTER SOCK/FENCE.
5. ANY DEBRIS ACCUMULATED AT SILT BARRIERS WILL BE REMOVED AND PROPERLY DISPOSED IN A RESPONSIBLE MANNER. BARRIERS SHALL BE CHECKED AND REALIGNED OR RESET AS REQUIRED. ANY DEBRIS OR SOLID WASTE MATERIAL ACCUMULATED FROM CONSTRUCTION ACTIVITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED MANNER. CONSTRUCTION WASTE SHALL NOT BE BURIED ON THE SUBJECT SITE.

PROJECT		NEW CRUDE OIL STORAGE TANK 704 PROJECT	
TOWN OF WEST SENECA		ERIE COUNTY, NY	
TITLE OF DRAWING		GENERAL NOTES	
DRAWING NO.		GN-1	
DRAWING NO.		GN-1	
SHEET 2 OF 12		SHEET 2 OF 12	
FA PROJECT NO.	190626	PROJECT MANAGER	S. SHAFER
MILESTONE	PERMIT	DRAWN BY	J. CREE
ISSUE DATE	04/03/2020	SCALE	N/A
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7	6	5	4
3	2	1	REV
DESCRIPTION		DATE	
BY		DATE	

PARCEL DATA:

OWNER: KIANTONE PIPELINE CORPORATION
 PARCEL ADDRESS: 550 MEYER ROAD, WEST SENECA
 NY, 14224
 TAX PARCEL ID: 134.06-3-11
 AREA: 31.71 ACRES

NOTES:

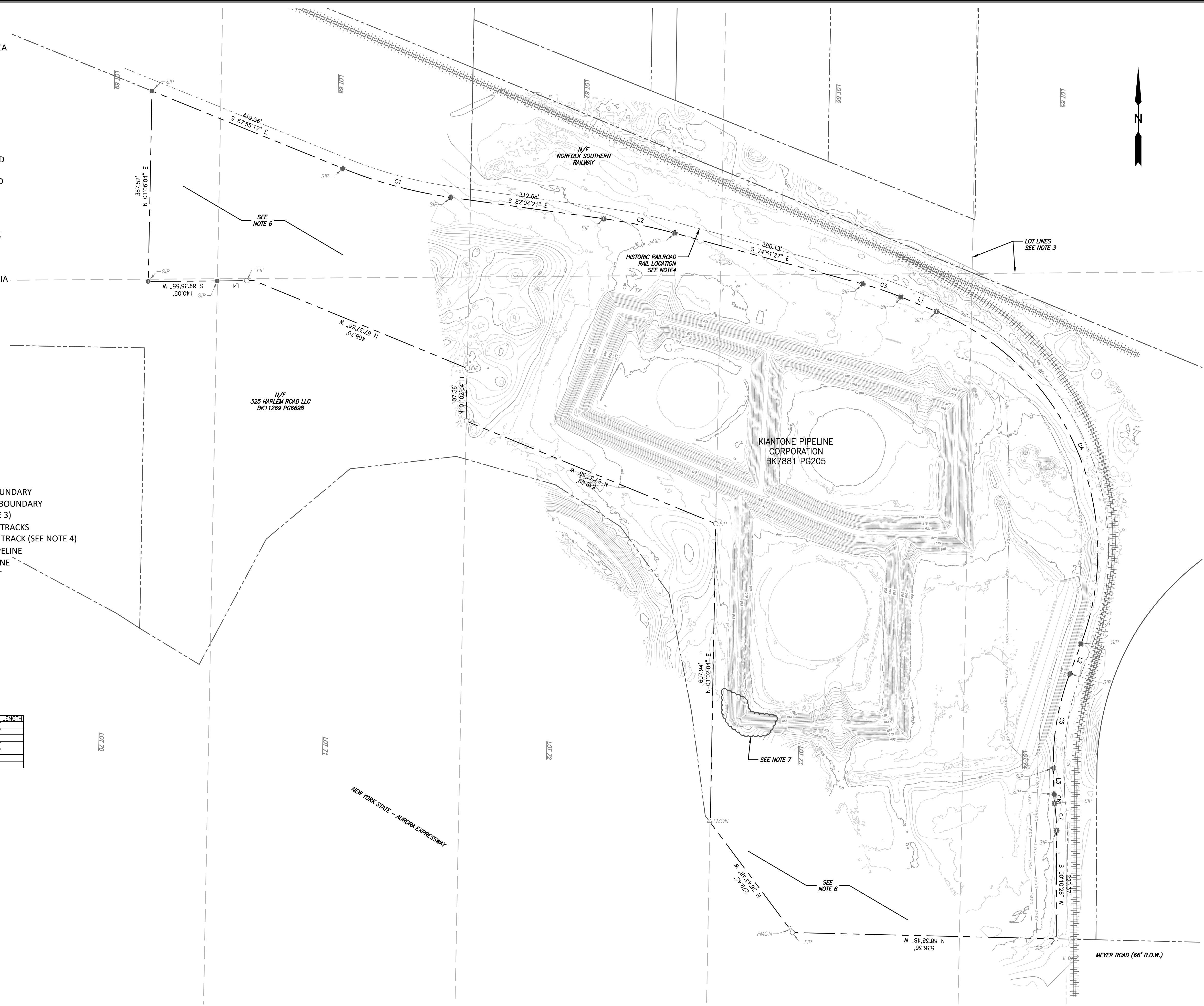
- BEARINGS BASED ON NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 DATUM.
- PROPERTY BOUNDARY SURVEY COMPLETED 10-12 DECEMBER, 2019.
- LOT LINES AS SHOWN BASED ON PROVIDED DATA AND HAVE NOT BEEN VERIFIED.
 LOT LINE REFERENCE:
 MAP OF THE EBENEZER LANDS, JULY 1856.
- ORIGINAL DEED DESCRIPTION REFERENCES REMOVED RAILROAD TRACK; THIS LINE RECREATED FROM AVAILABLE SOURCES.
 RAILROAD REFERENCE:
 WESTERN NEW YORK AND PENNSYLVANIA RAILWAY VALUATION MAPS V-36.3/3 & V-36.16/1
- SUBJECT PARCEL REFERENCES:
 DEED DATED 16 DECEMBER 1971
 KPC DRAWINGS KP-200-2-1-d,
 KP-200-2-2-d, KP-200-2-3-d, AND
 440LD0279
- CONTOURS GENERATED FROM DRONE PHOTOGRAPHIC DATA FOR DEVELOPED AREAS OF PROPERTY ONLY.
 DRONE FLIGHT DATE: SEPTEMBER 10, 2019
- CONTOURS IN THIS AREA INTERPOLATED DUE TO MINIMAL PHOTOGRAPHIC COVERAGE.

LEGEND

- SUBJECT PARCEL BOUNDARY
- ADJOINING PARCEL BOUNDARY
- LOT LINES (SEE NOTE 3)
- EXISTING RAILROAD TRACKS
- HISTORIC RAILROAD TRACK (SEE NOTE 4)
- EXISTING WATER PIPELINE
- EXISTING GAS PIPELINE
- FOUND MONUMENT
- FOUND IRON PIN
- SET IRON PIN
- PROPERTY CORNER

LINE BEARING	DISTANCE
L1 S 67°42'18" E	177.97'
L2 S 20°45'56" W	64.35'
L3 S 01°03'35" E	53.82'
L4 S 89°31'55" W	174.81'

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	228.31'	924.40'	14°09'04"	S 74°59'49" E	227.73'
C2	148.03'	1175.60'	7°12'53"	S 78°27'54" E	147.94'
C3	82.12'	657.81'	7°09'10"	S 71°16'53" E	82.07'
C4	816.21'	528.60'	88°28'14"	S 23°28'11" E	737.51'
C5	195.98'	513.43'	21°52'14"	S 09°51'52" W	194.80'
C6	118.58'	144.40'	72°22'22"	S 04°44'45" E	118.57'
C7	55.09'	374.60'	8°25'36"	S 04°13'08" E	55.04'



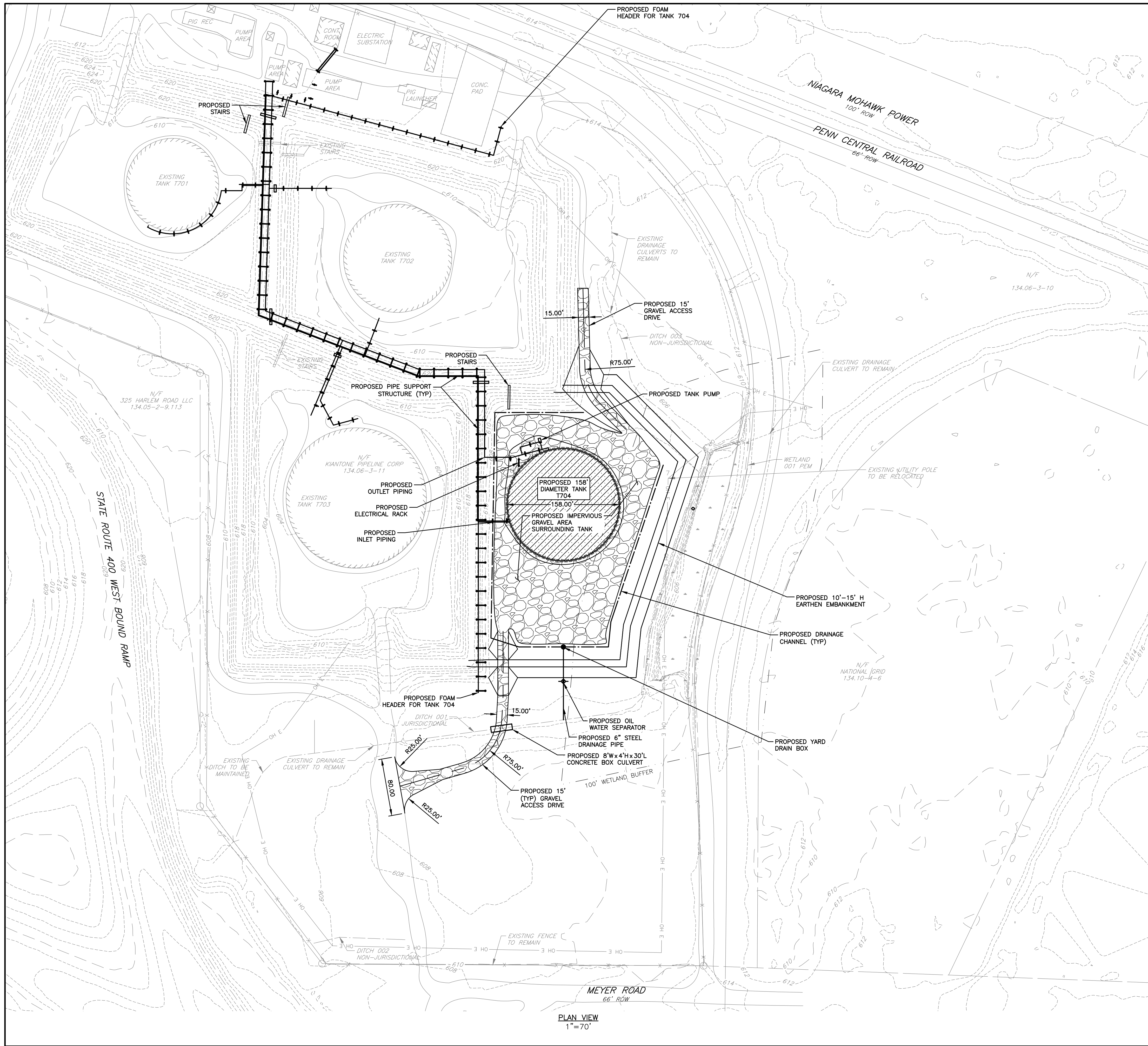
DRAWING TITLE	
BOUNDARY SURVEY FOR KIANTONE PIPELINE CORPORATION	CLIENT
PROJECT	KIANTONE PIPELINE CORPORATION DIV. OF UNITED REFINING COMPANY P.O. BOX 780 WARREN PA, 16365
WEST SENECA TERMINAL TANK 704 DESIGN 550 MEYER ROAD WEST SENECA NY, 14224	GAI CONSULTANTS GAI DRAWING NUMBER: BNDY_SRYV-22x34
GAI FILE NUMBER: C191229-00-000-00-D-BOUNDARY_22x34	GAI CLIENT DRAWING NUMBER: BNDY_SRYV-22x34
ISSUING OFFICE: Southampton 16000 Town Center Blvd., Suite 300, Canonsburg, PA 15317	
SHEETS: C191229-00-000-00-D-BOUNDARY_22x34.dwg PLOTTED ON: 4/1/2020 12:09:22 PM SHEETS: C191229-00-000-00-D-BOUNDARY_22x34.dwg PLOTTED ON: 4/1/2020 12:09:22 PM	
ISSUE DATE:	DRAWN BY:
04/01/2020	MARKEST
SCALE:	CHECKED BY:
1" = 100'	FORTNCJ
DWG TYPE:	APPROVED BY:
BOUNDARY	BAKERDM
REVISION	SHEET NO.:
A	1 OF 1



David M Baker
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GAI CAD FILE PATH: Z:\Energy\2019\C191229-00-000-00-D-BOUNDARY_22x34.dwg PLOTTED BY: Steven McGrawinski PLOT FILE: GAI.stb
 This drawing was prepared with computer aided drafting technology and is subject to the same limitations as any other computer generated drawing.

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 DATE/TIME: 4/1/2020 11:34:41 AM
 USER: Justin Cree



LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING PUBLIC RIGHT OF WAY
	EXISTING PROPERTY LINE
	EXISTING ROAD CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING MAJOR BUILDING
	EXISTING MINOR BUILDING
	EXISTING UNDERGROUND CRUDE OIL LINE
	EXISTING UNDERGROUND WATER LINE
	EXISTING DITCH
	EXISTING FENCE
	EXISTING CULVERT
	EXISTING WETLAND
	EXISTING WETLAND BUFFER
	EXISTING RAILROAD
	EXISTING UTILITY POLE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED STRUCTURE
	PROPOSED ACCESS ROAD/GRAVEL AREA
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED UNDERGROUND WATER LINE (APPROX.)
	PROPOSED DITCH (APPROX.)
	PROPOSED YARD DRAIN
	PROPOSED UTILITY POLE
	PROPOSED OIL SEPARATOR

SITE DATA

ZONING DISTRICT: M-2 MANUFACTURING DISTRICT
 LAND OWNER: KIANTONE PIPELINE CORPORATION
 PROPERTY ADDRESS: 550 MEYER ROAD
 MAILING ADDRESS: PO BOX 780, WARREN, PA 16365
 SECTION-BLOCK-LOT: 134.06-3-11
 PARCEL ACREAGE: 31.5 ACRES
 LIMITS OF DISTURBANCE ACREAGE: 8.5 ACRES

- NOTES:**
- PROPOSED CULVERT INVERTS TO BE DETERMINED ONCE A FINAL CONCRETE BOX CULVERT SIZE AND FINAL ACCESS DRIVE GRADE IS ESTABLISHED.



REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

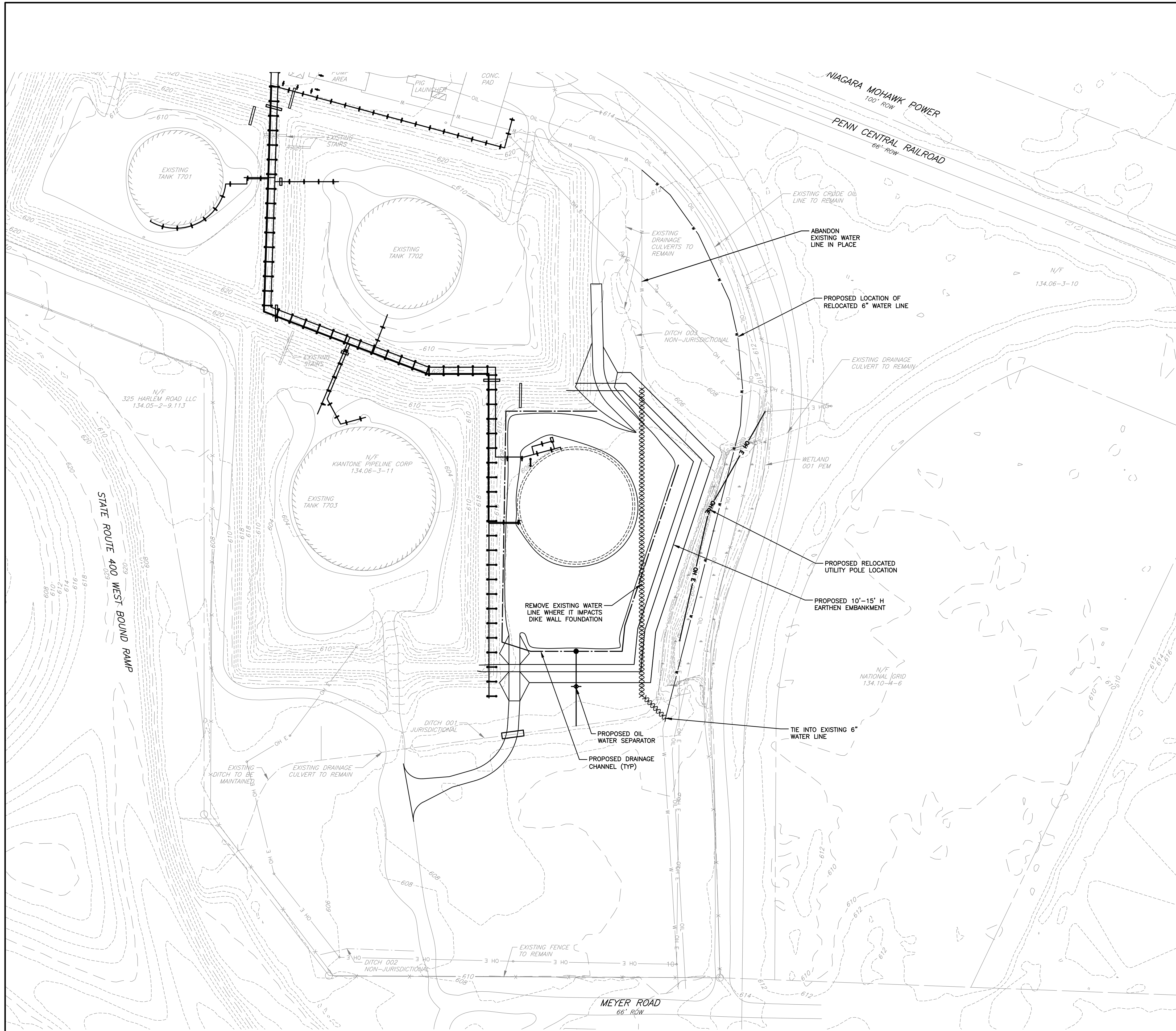
COPYRIGHT © 2020 FISHER ASSOCIATES P.E., L.S., L.A., D.F.C.		FA PROJECT NO. 190626	
New York State Education Law, Section 1901(2)(b) requires that the seal of a professional engineer or land surveyor be placed on all drawings prepared by or under the supervision of a professional engineer or land surveyor, to alter on them in any way, or to be used for any purpose other than that for which they were prepared, without the written consent of the professional engineer or land surveyor, and a specific description of the alteration.		PROJECT MANAGER S. SHAFER	
MILESTONE PERMIT ISSUE DATE 04/03/2020		DRAWN BY J. CREE	
SCALE AS SHOWN		WWW.FISHERASSOC.COM	

PROJECT NEW CRUDE OIL STORAGE TANK 704 PROJECT TOWN OF WEST SENECA ERIE COUNTY, NY	TITLE OF DRAWING SITE PLAN
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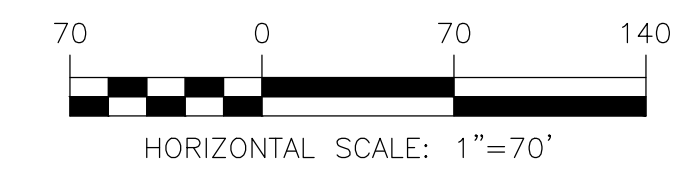
DRAWING NO. S-1

SHEET 4 OF 12

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 USER: Justin Cree



PLAN VIEW
 1"=70'



LEGEND

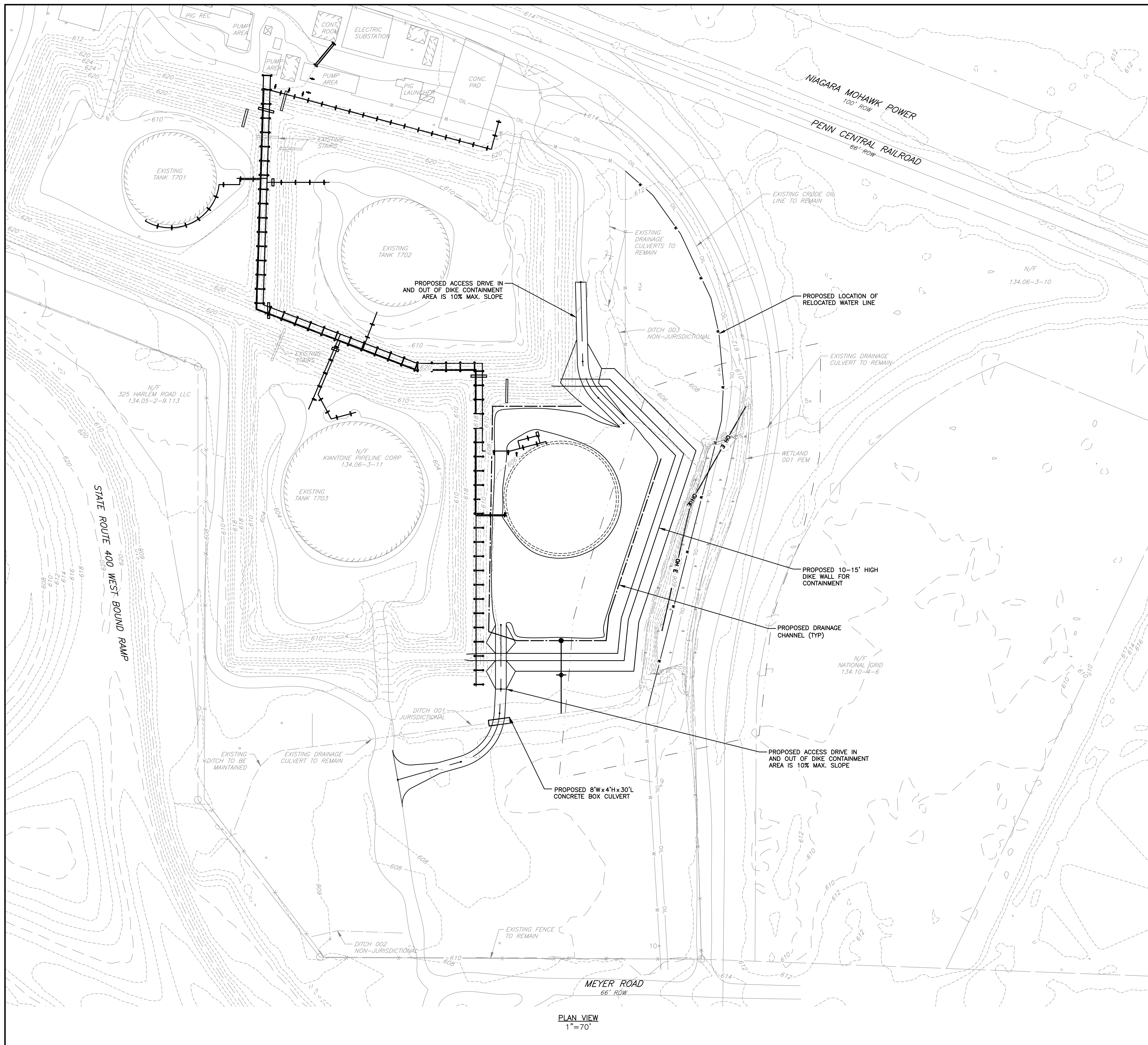
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING PUBLIC RIGHT OF WAY
	EXISTING PROPERTY LINE
	EXISTING ROAD CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING MAJOR BUILDING
	EXISTING MINOR BUILDING
	EXISTING UNDERGROUND CRUDE OIL LINE
	EXISTING UNDERGROUND WATER LINE
	EXISTING DITCH
	EXISTING FENCE
	EXISTING CULVERT
	EXISTING WETLAND
	EXISTING RAILROAD
	EXISTING UTILITY POLE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED STRUCTURE
	PROPOSED ACCESS ROAD/GRAVEL AREA
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED UNDERGROUND WATER LINE (APPROX.)
	PROPOSED DITCH (APPROX.)
	PROPOSED OVERHEAD ELECTRIC LINE

NOTES:

1. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES THAT CROSS THROUGH ANY PAVEMENT AREA.
2. ANY UTILITY LINE CROSSINGS SHOULD MAINTAIN A MINIMUM OF 18" OF CLEARANCE BETWEEN LINES.
3. CONTRACTOR SHALL MINIMIZE DISTURBANCE AREA AND LIMIT DITCH WIDTH TO AS NARROW AS POSSIBLE DURING NEW WATERLINE INSTALLATION THROUGH EXISTING WETLAND.

PROJECT NEW CRUDE OIL STORAGE TANK 704 PROJECT TOWN OF WEST SENECA ERIE COUNTY, NY		TITLE OF DRAWING UTILITY PLAN	
DRAWING NO. U-1		SHEET 5 OF 12	
PROJECT NO. 190626		MILESTONE PERMIT	
PROJECT MANAGER S. SHAFER		ISSUE DATE 04/03/2020	
DRAWN BY J. CREE		SCALE AS SHOWN	
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DESCRIPTION		DATE	
BY		DATE	

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 DATE/TIME: 4/1/2020 11:35:54 AM
 USER: Justin Cree



PLAN VIEW
1"=70'

LEGEND

- 610 --- EXISTING MINOR CONTOUR
- 610 --- EXISTING MAJOR CONTOUR
- EXISTING PUBLIC RIGHT OF WAY
- EXISTING PROPERTY LINE
- EXISTING ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING MAJOR BUILDING
- EXISTING MINOR BUILDING
- OIL --- EXISTING UNDERGROUND CRUDE OIL LINE
- W --- EXISTING UNDERGROUND WATER LINE
- EXISTING DITCH
- X --- EXISTING FENCE
- EXISTING CULVERT
- EXISTING WETLAND
- EXISTING RAILROAD
- EXISTING UTILITY POLE
- EXISTING OVERHEAD ELECTRIC
- PROPOSED STRUCTURE
- PROPOSED ACCESS ROAD/GRAVEL AREA
- PROPOSED LIMITS OF DISTURBANCE
- W --- PROPOSED UNDERGROUND WATER LINE (APPROX.)
- PROPOSED DITCH (APPROX.)



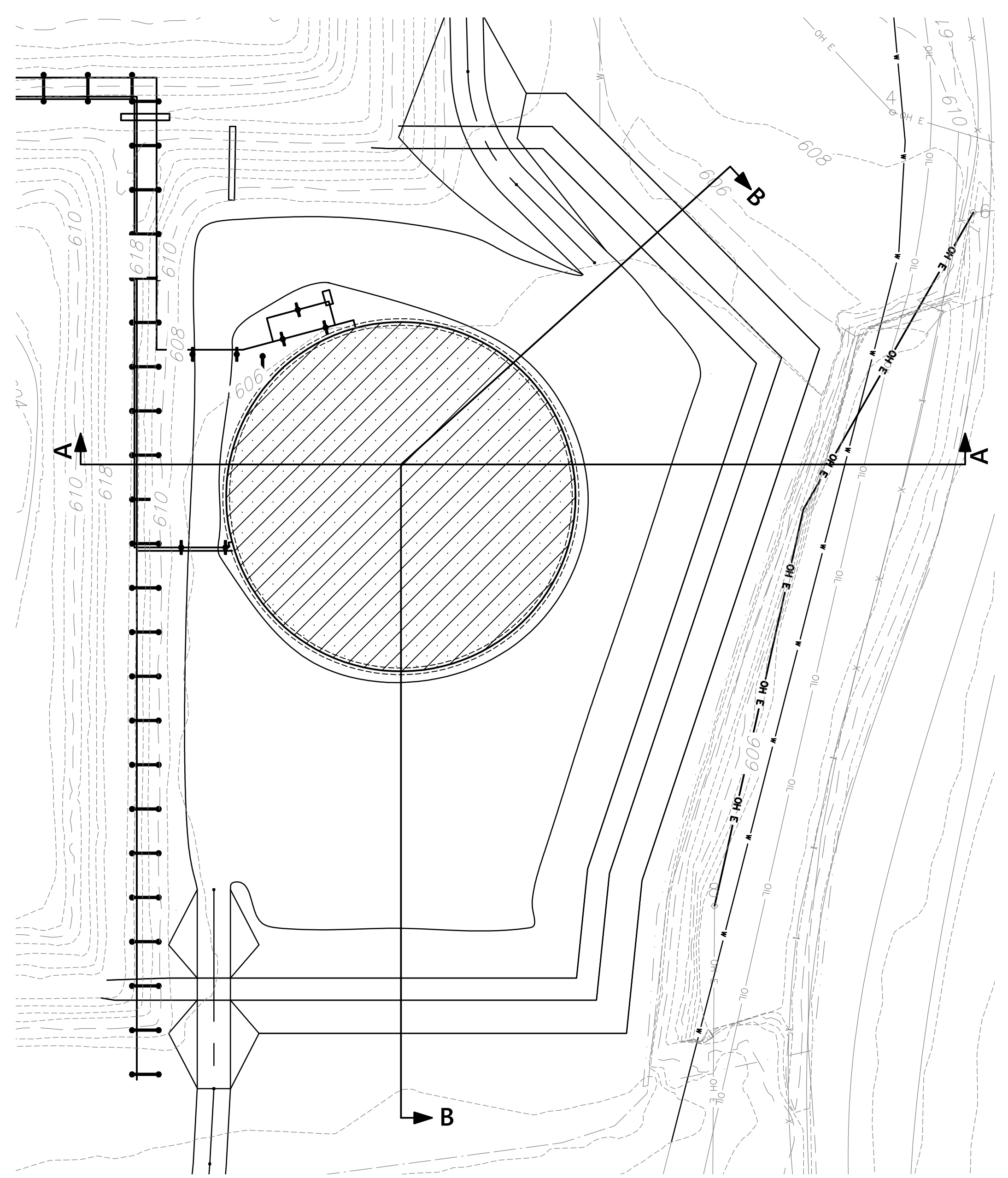
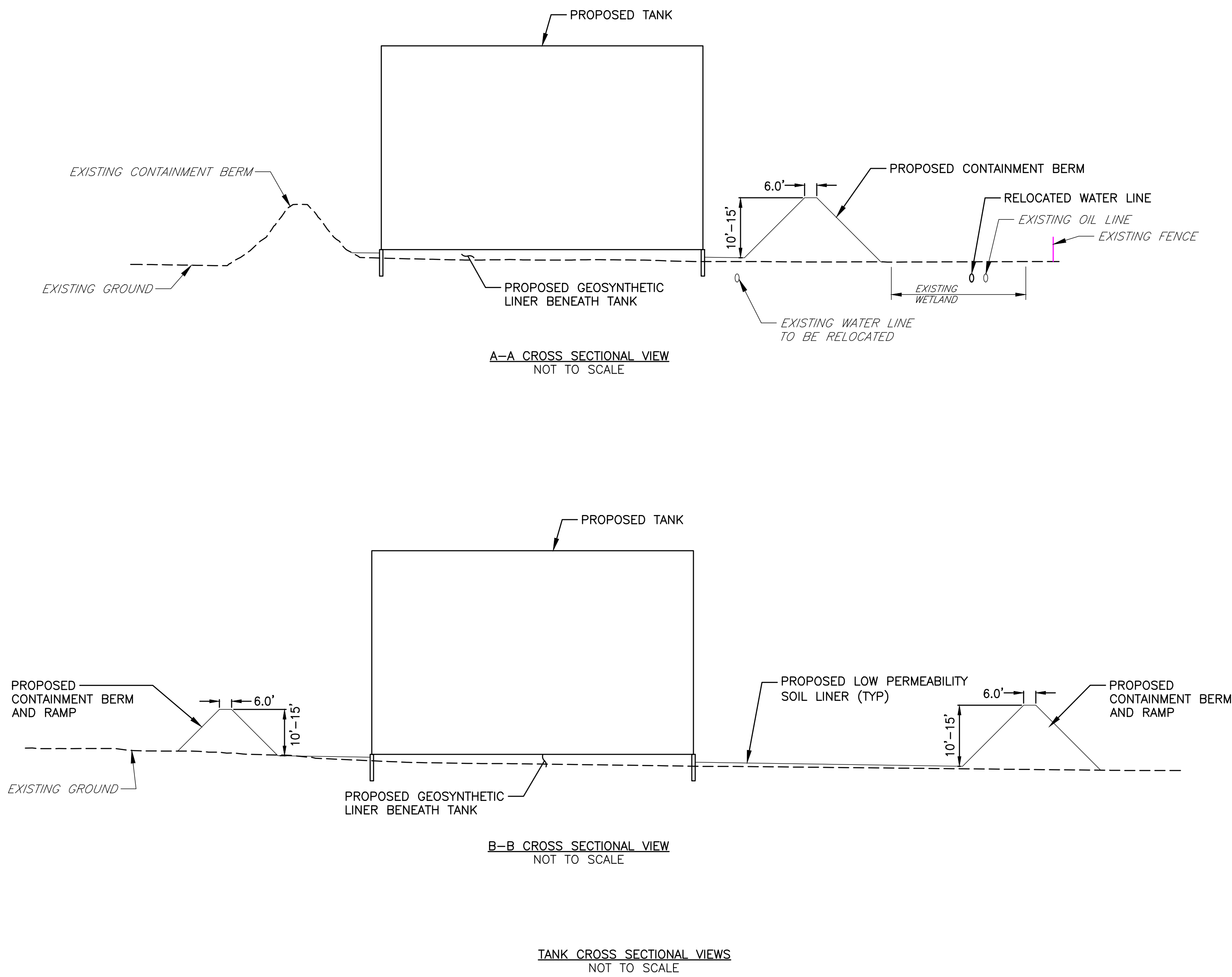
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PROJECT NO. 190626		PROJECT MANAGER S. SHAFER		MILESTONE PERMIT	
DRAWN BY J. CREE		SCALE AS SHOWN		ISSUE DATE 04/03/2020	
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DATE 04/03/2020		DESCRIPTION 		BY	



PROJECT
NEW CRUDE OIL STORAGE TANK 704 PROJECT
 TOWN OF WEST SENECA
 ERIE COUNTY, NY

DRAWING NO.
G-1
 SHEET 6 OF 12

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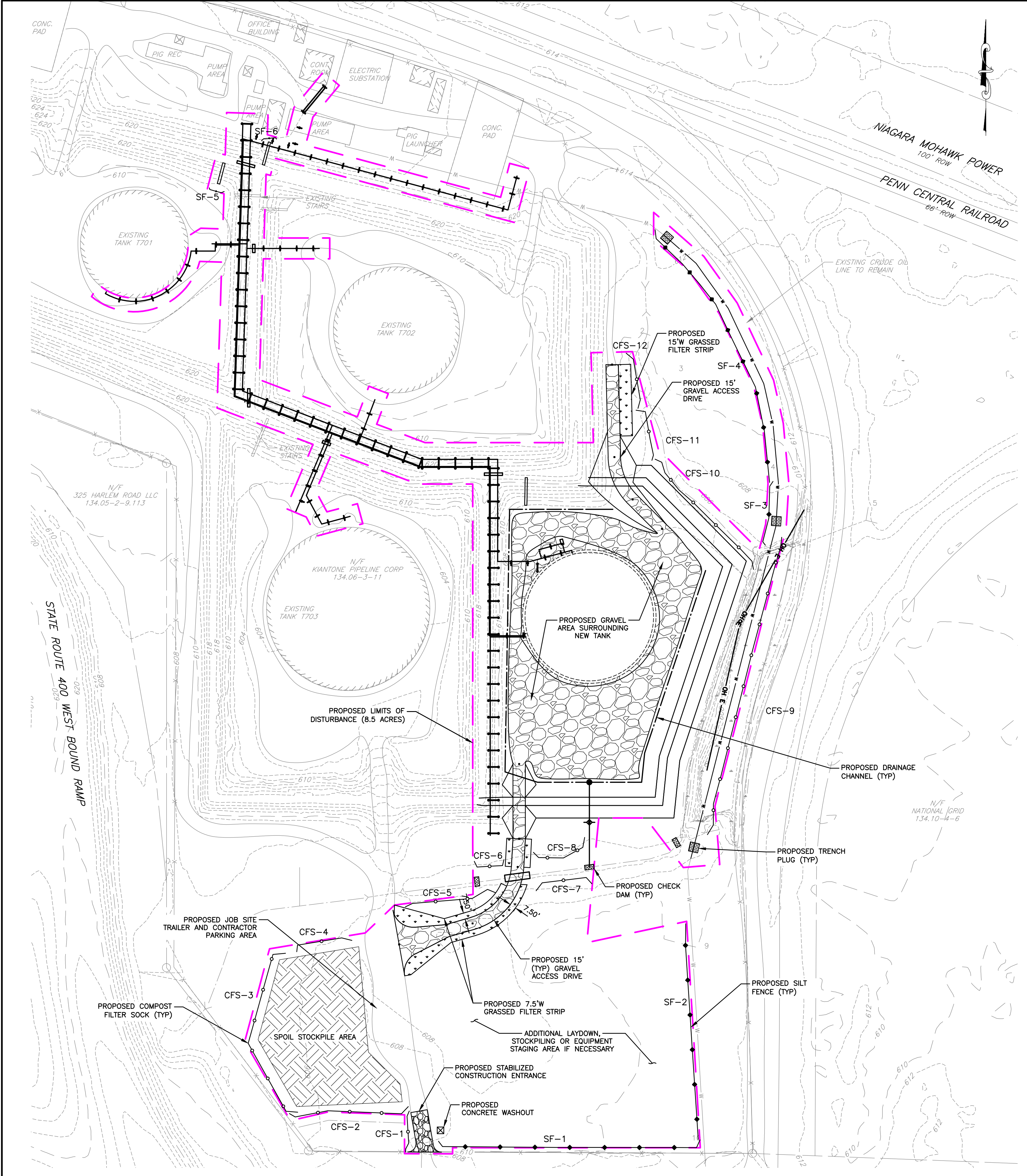


TANK DETAIL PLAN VIEW
 1"=40'

LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING PUBLIC RIGHT OF WAY
	EXISTING PROPERTY LINE
	EXISTING ROAD CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING MAJOR BUILDING
	EXISTING MINOR BUILDING
	EXISTING UNDERGROUND CRUDE OIL LINE
	EXISTING UNDERGROUND WATER LINE
	EXISTING DITCH
	EXISTING FENCE
	EXISTING CULVERT
	EXISTING WETLAND
	EXISTING RAILROAD
	EXISTING UTILITY POLE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED STRUCTURE
	PROPOSED ACCESS ROAD/GRAVEL AREA
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED UNDERGROUND WATER LINE (APPROX.)
	PROPOSED DITCH (APPROX.)

PROJECT NEW CRUDE OIL STORAGE TANK 704 PROJECT TOWN OF WEST SENECA ERIE COUNTY, NY		TITLE OF DRAWING TANK GRADING PLAN & SECTIONS		DRAWING NO. G-2	
PROJECT NO. 190626		PROJECT MANAGER S. SHAFER		MILESTONE PERMIT	
DRAWN BY J. CREE		SCALE AS SHOWN		ISSUE DATE 04/03/2020	
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PLAN VIEW
 1" = 70'

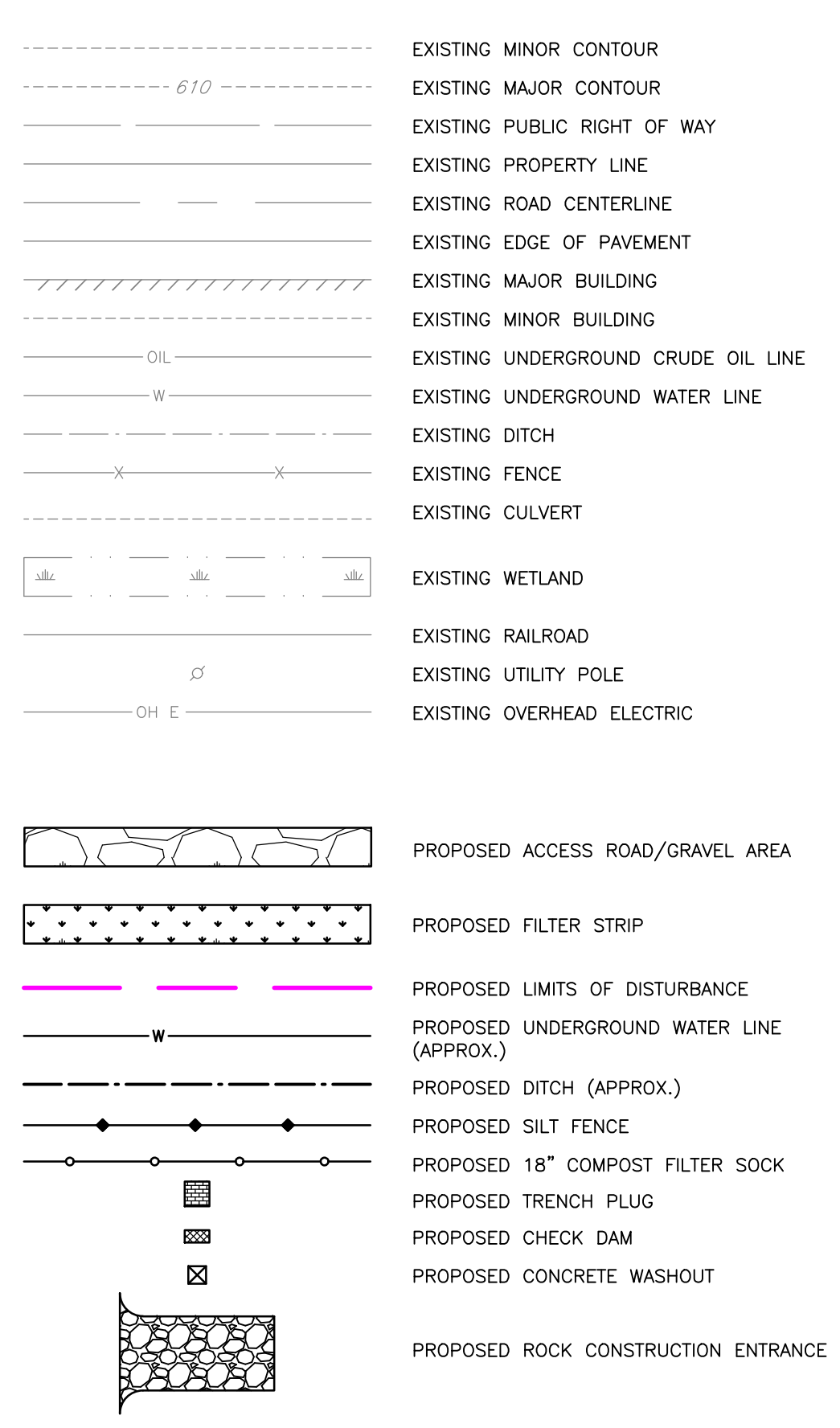
COMPOST FILTER SOCK QUANTITY TABLE

NUMBER	LENGTH
CFS-1	51
CFS-2	149
CFS-3	234
CFS-4	75
CFS-5	114
CFS-6	232
CFS-7	76
CFS-8	78
CFS-9	371
CFS-10	182
CFS-11	71
CFS-12	72

SILT FENCE QUANTITY TABLE

NUMBER	LENGTH
SF-1	325
SF-2	260
SF-3	80
SF-4	345
SF-5	20
SF-6	20

LEGEND



EROSION & SEDIMENT CONTROL BMPs QUANTITY TABLE

BMP	QUANTITY	UNIT
SILT FENCE	1,050	LF
COMPOST FILTER SOCK	1,705	LF
CONCRETE WASHOUT	1	EA
STABILIZED CONSTRUCTION ENTRANCE	1	EA
ROCK CHECK DAM	3	EA
GRASS FILTER STRIP	5,175	SF
TRENCH PLUG	3	EA

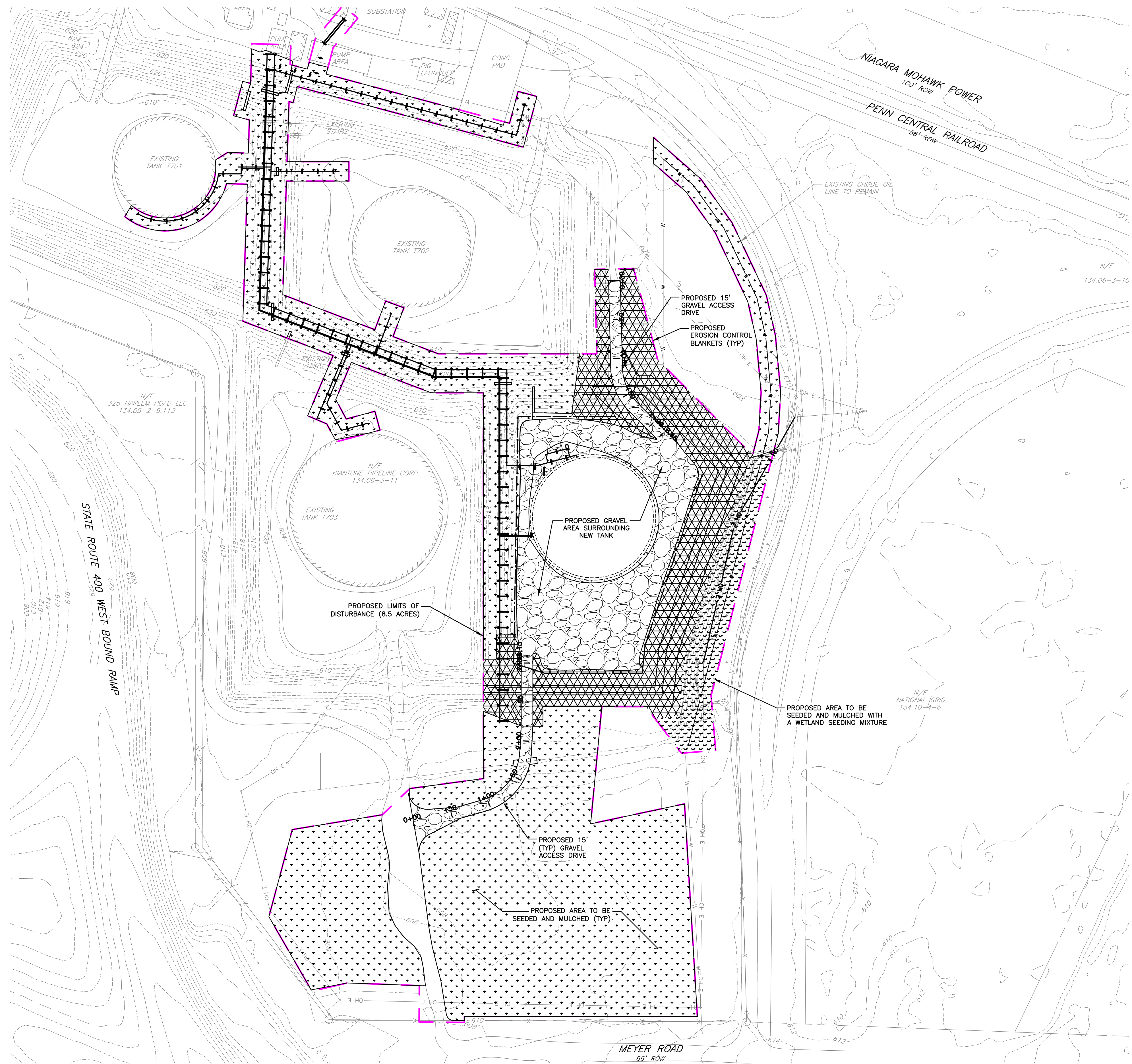
NOTE:

- ANY STUMPS AND BRUSH MAY NOT BE BURIED IN THE TOWN AND THAT TOPSOIL MAY NOT BE REMOVED FROM THE WORK SITE WITHOUT A PERMIT.



PROJECT NEW CRUDE OIL STORAGE TANK 704 PROJECT TOWN OF WEST SENeca ERIE COUNTY, NY	TITLE OF DRAWING EROSION & SEDIMENT CONTROL PLAN	DRAWING NO. ES-1	SHEET 8 OF 12
		DRAWING NO. ES-1	SHEET 8 OF 12
PROJECT NO. 190626		MILESTONE PERMIT ISSUE DATE 04/03/2020	
PROJECT MANAGER S. SHAFER		SCALE AS SHOWN	
FA PROJECT NO. 190626		COPYRIGHT © 2020 FISHER ASSOCIATES P.E., L.S., D.P.C.	
DRAWN BY J. CREE		DATE 04/03/2020	
CHECKED BY S. SHAFER		REVISIONS 7 6 5 4 3 2 1	
DESCRIPTION		DATE	
BY		DATE	

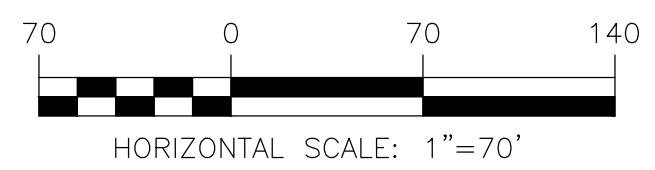
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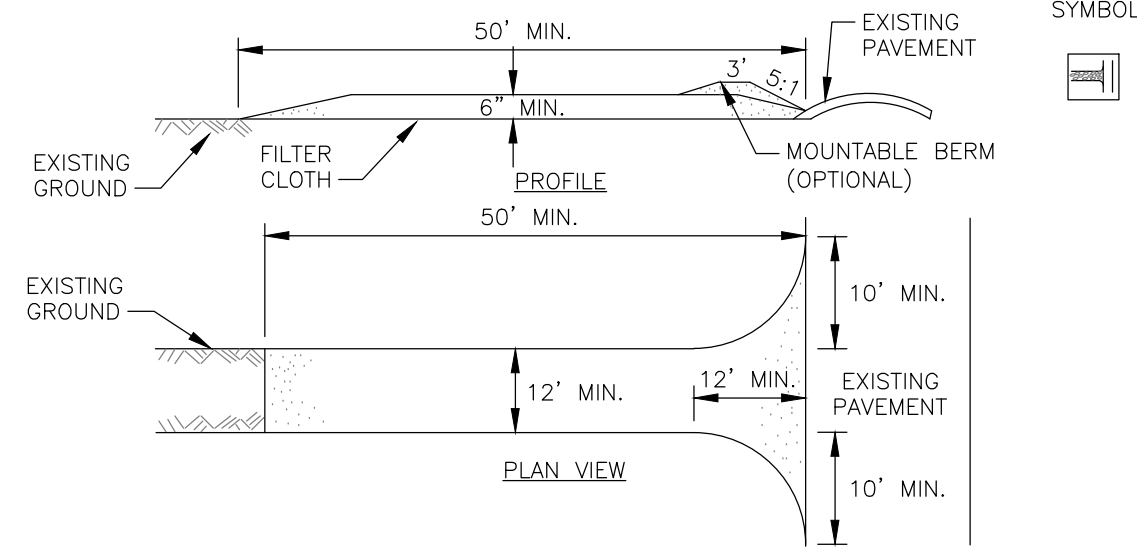
PLAN VIEW
1"=70'

LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING PUBLIC RIGHT OF WAY
	EXISTING PROPERTY LINE
	EXISTING ROAD CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING MAJOR BUILDING
	EXISTING MINOR BUILDING
	EXISTING UNDERGROUND CRUDE OIL LINE
	EXISTING UNDERGROUND WATER LINE
	EXISTING DITCH
	EXISTING FENCE
	EXISTING CULVERT
	EXISTING WETLAND
	EXISTING RAILROAD
	EXISTING UTILITY POLE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED ACCESS ROAD/GRAVEL AREA
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED UNDERGROUND WATER LINE (APPROX.)
	PROPOSED DITCH (APPROX.)
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED SEEDING & MULCHING
	PROPOSED WETLAND SEEDING & MULCHING

SITE RESTORATION QUANTITY TABLE		
BMP	QUANTITY	UNIT
SEEDING AND MULCHING	5.1	AC
SEEDING AND MULCHING: WETLAND MIXTURE	0.5	AC
EROSION CONTROL BLANKETS	5620	SY



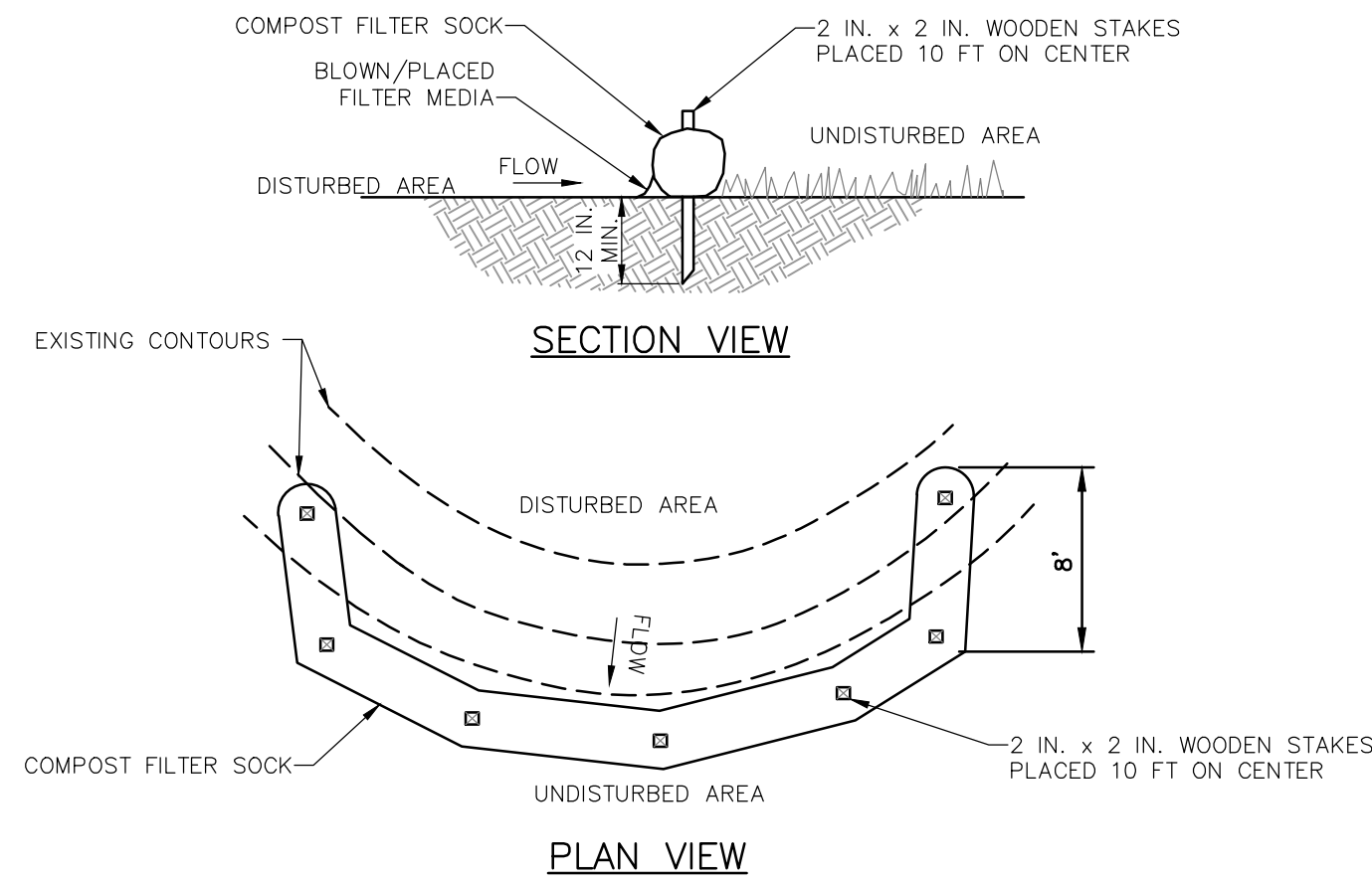
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				PROJECT NO. 190626	PROJECT MANAGER S. SHAFER	MILESTONE PERMIT	ISSUE DATE 04/03/2020				
				DRAWN BY J. CREE	SCALE AS SHOWN	REV	DATE				
				FA PROJECT NO. 190626	PROJECT MANAGER S. SHAFER	MILESTONE PERMIT	ISSUE DATE 04/03/2020				
				DRAWN BY J. CREE	SCALE AS SHOWN	REV	DATE				
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				FISHER ASSOCIATES WWW.FISHERASSOC.COM	DATE	DESCRIPTION	BY				



CONSTRUCTION SPECIFICATIONS

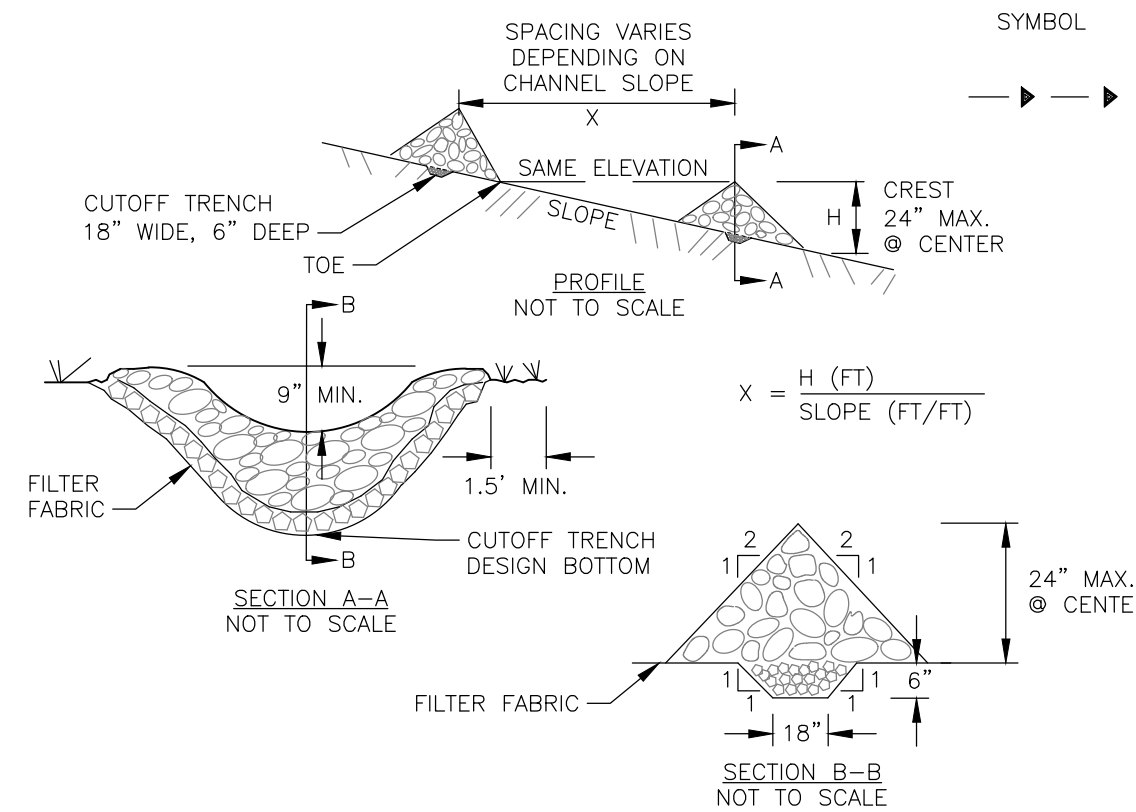
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE, AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



COMPOST FILTER SOCK
NOT TO SCALE

- NOTES:**
- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
 - COMPOST FILTER SOCKS SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
 - TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 - COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 - BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 - UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

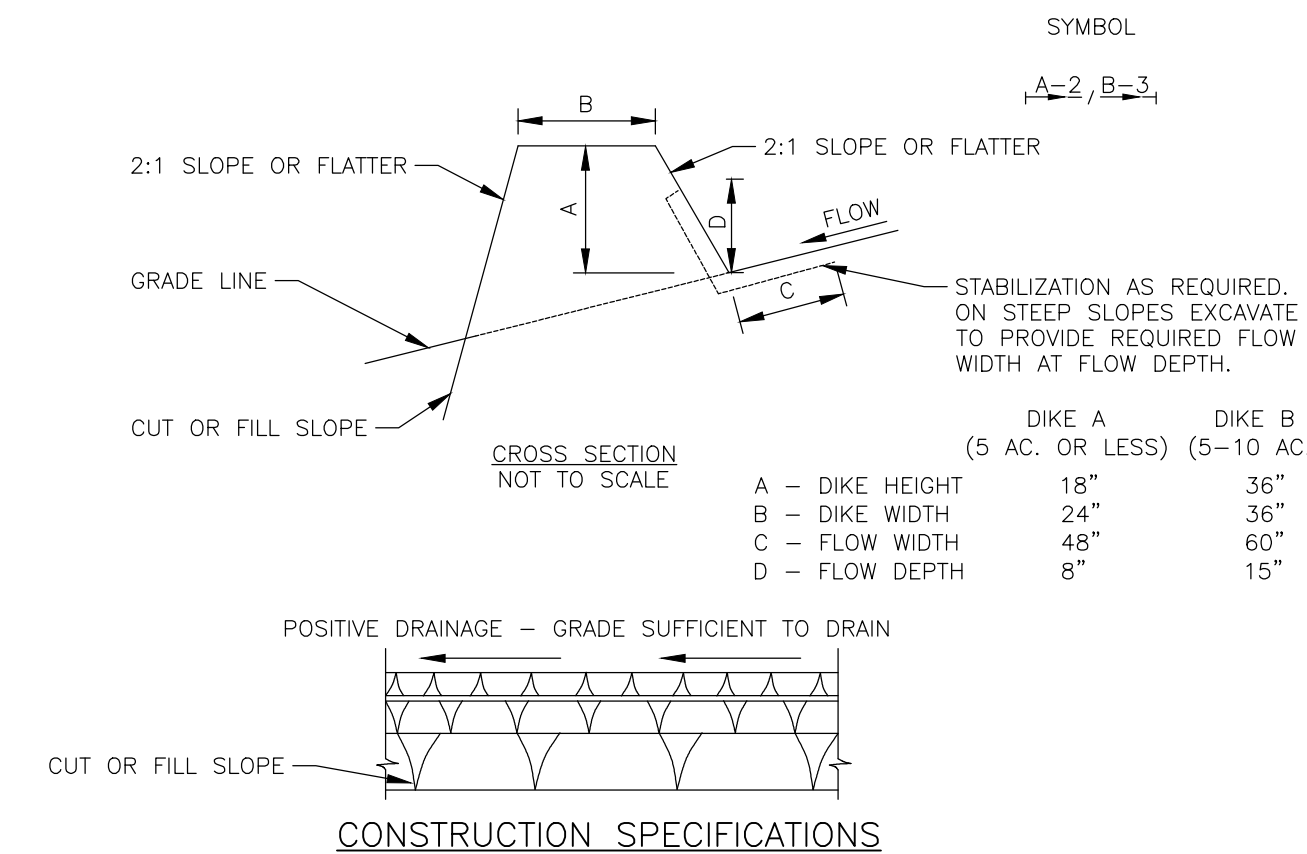


CHECK DAM
NOT TO SCALE

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES

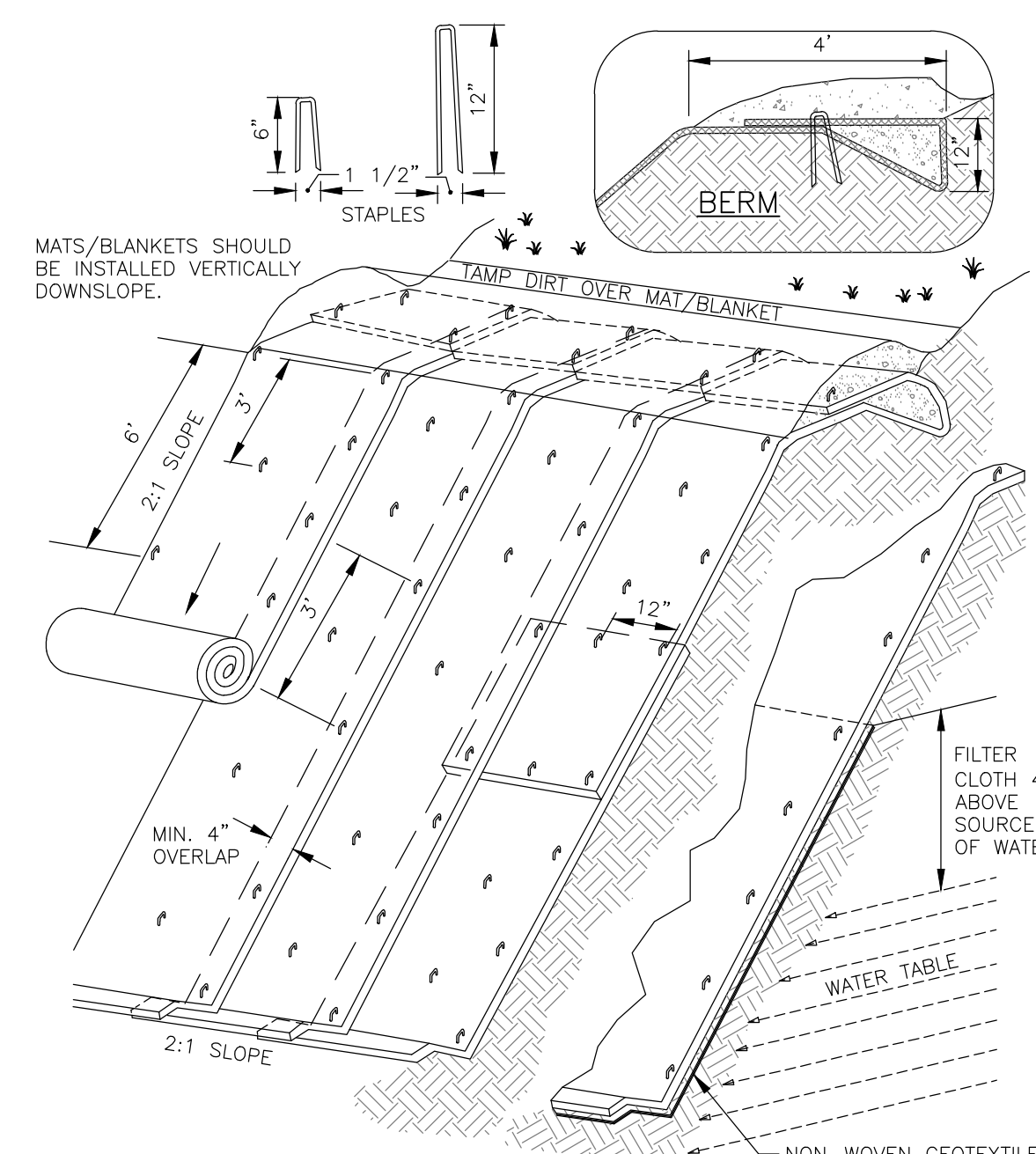
CHECK DAM
NOT TO SCALE



EARTH DIKE
NOT TO SCALE

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART ON THE PREVIOUS PAGE.

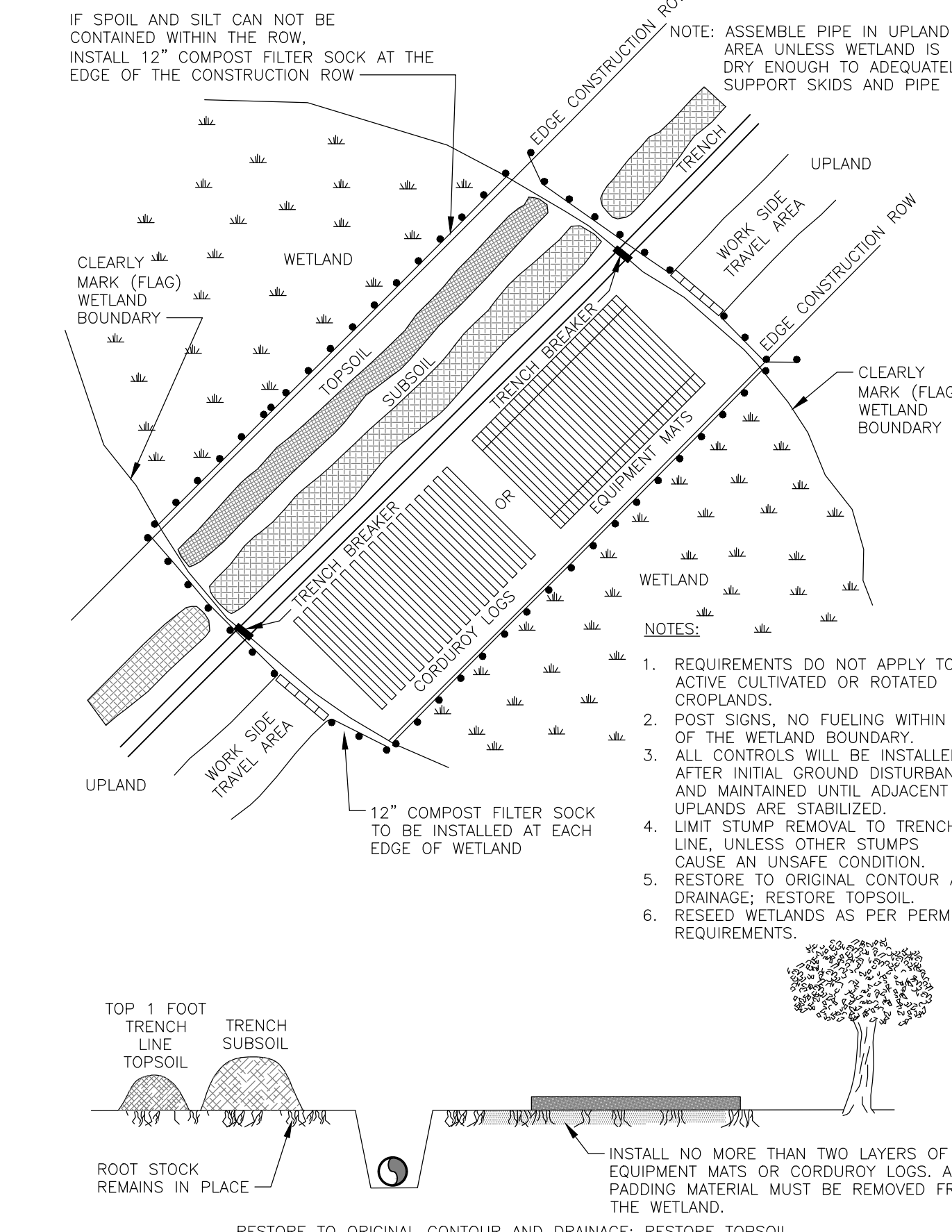
EARTH DIKE
NOT TO SCALE



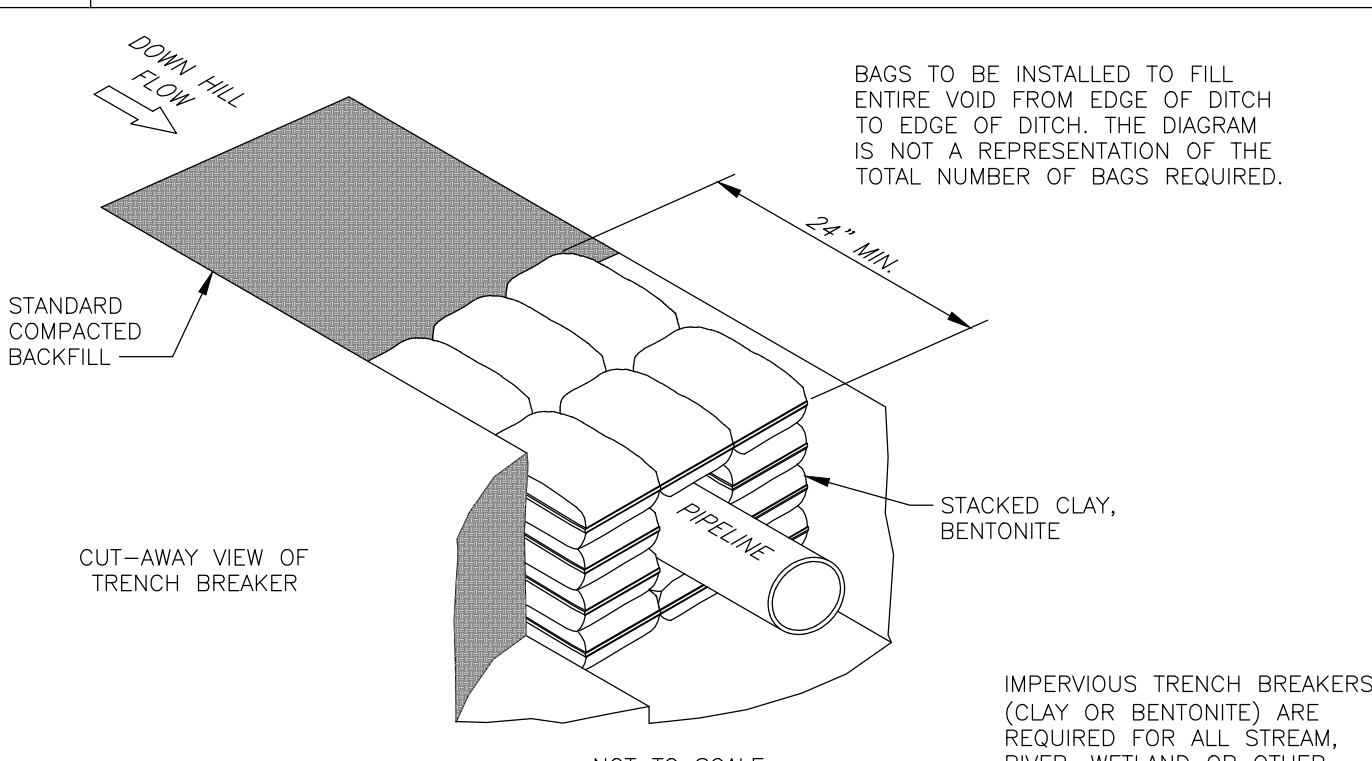
ISOMETRIC VIEW TYPICAL SLOPE SOIL STABILIZATION

- NOTES:**
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

EROSION BLANKETS SLOPE INSTALLATION
NOT TO SCALE



WETLAND CROSSING
NOT TO SCALE



TEMPORARY TRENCH BREAKERS:

SLOPE	HARD/SOFT PLUG SPACING	
	HARD PLUG (OR)	SOFT PLUG
<5%	N/A	1000'
5-15%	900'	600'
15-30%	600'	400'
>30%	300'	200'

TRENCH BREAKER SLOPE SPACING

AT THE SPACING LISTED IN THE CHART SHOWN BELOW ON THIS DRAWING.

ADDITIONAL LOCATIONS

AS A MINIMUM, INSTALL A TRENCH BREAKER AT THE BASE OF SLOPES GREATER THAN 5% WHERE THE BASE OF SLOPE IS LESS THAN 50' FROM A WATERBODY OR WETLAND AND WHERE NEEDED TO AVOID DRAINING A WATERBODY OR WETLAND.

TRENCH SLOPE (%)	SPACING (FT)	PERMANENT TRENCH BREAKERS	
		PLUG MATERIAL	
<5	1,000	* CLAY, BENTONITE, SOIL OR SAND FILLED SACKS	
5-15	500	* CLAY, BENTONITE, SOIL OR SAND FILLED SACKS	
15-25	300	* CLAY, BENTONITE, SOIL OR SAND FILLED SACKS	
25-35	200	* CLAY, BENTONITE, SOIL OR SAND FILLED SACKS	
35-100	100	* CLAY, BENTONITE, SOIL OR SAND FILLED SACKS	
>100	50	* CEMENT FILLED BAGS (WETTED) OR MORTARED STONE	

TRENCH BREAKER
NOT TO SCALE

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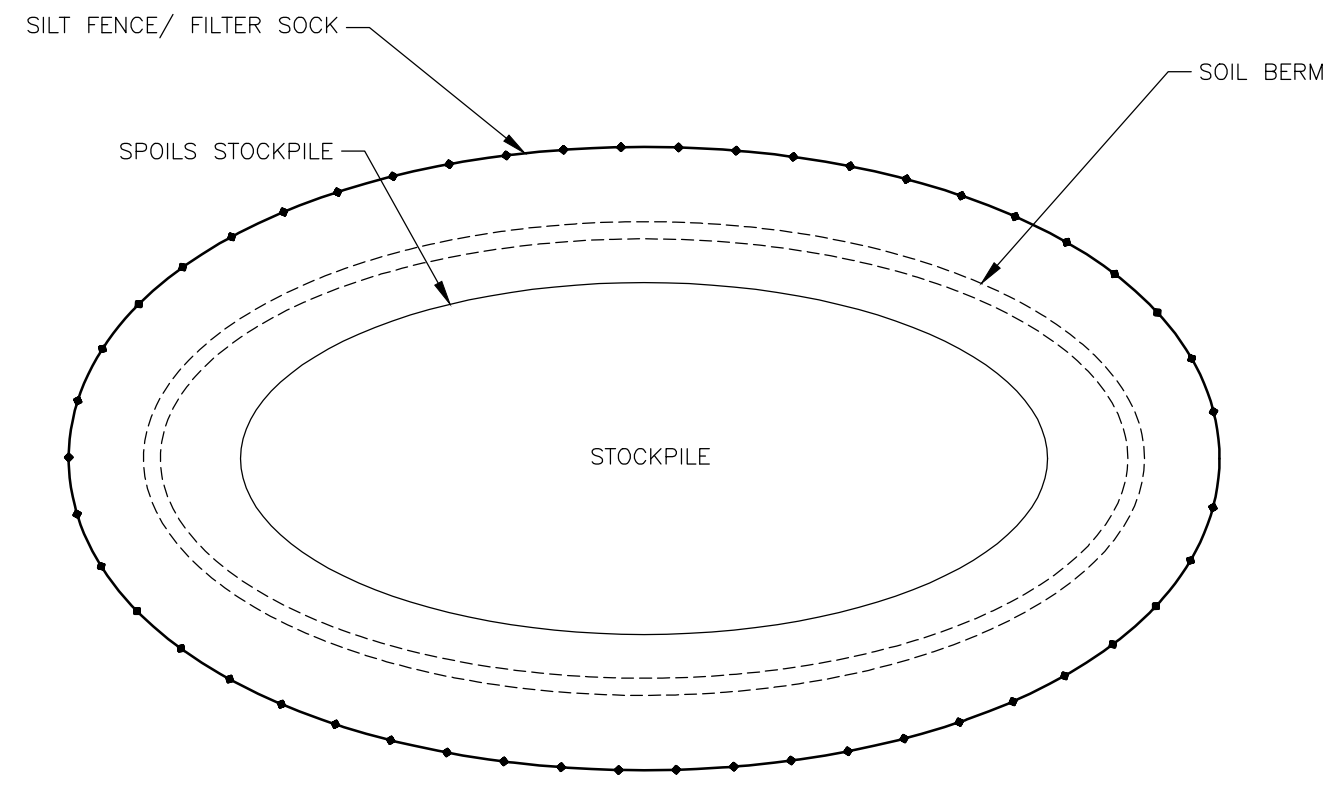
PROJECT: NEW CRUDE OIL STORAGE TANK 704 PROJECT
 TOWN OF WEST SENeca
 ERIE COUNTY, NY
 DRAWING NO: D-1
 SHEET 10 OF 12

TITLE OF DRAWING: DETAILS

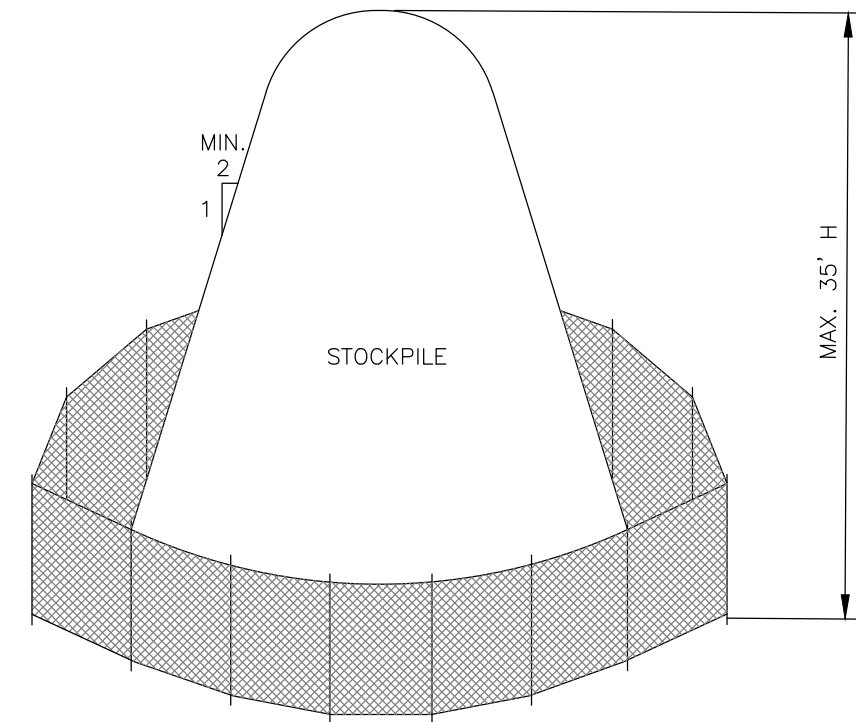
PROJECT MANAGER: S. SHAFER
 DRAWN BY: J. CREE
 SCALE: AS SHOWN
 MILESTONE PERMIT ISSUE DATE: 04/03/2020

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PLAN VIEW



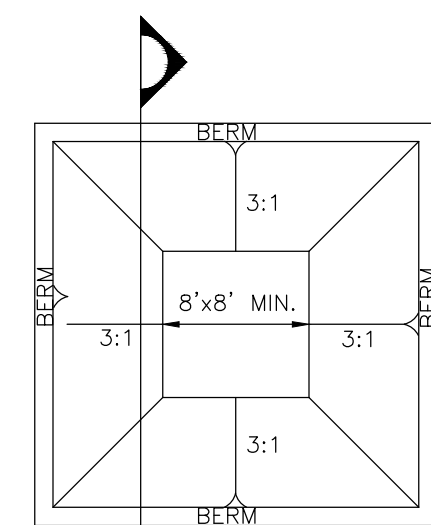
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NOTE:

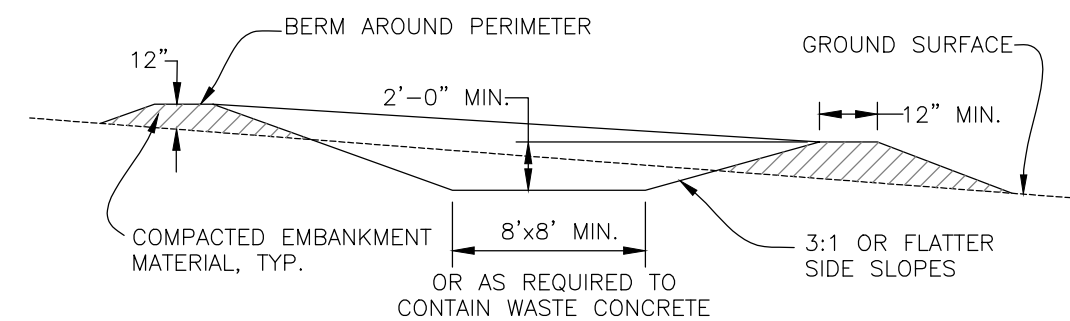
1. SILT FENCE MUST BE PLACED DOWNSLOPE OF ALL STOCKPILES (AS SHOWN ON PLAN). IMMEDIATELY APPLY TEMPORARY SEEDING TO ALL STOCKPILES WHICH WILL REMAIN IN PLACE 14 DAYS OR MORE.
2. TOPSOIL AND SPOIL STOCKPILES SHOULD BE KEPT SEPARATE FOR BACKFILL, GRADING AND RESTORATION PURPOSES.
3. STOCKPILES TO BE KEPT AT SAFE DISTANCE FROM ALL OVERHEAD WIRES.

ON SITE STOCKPILES

NOT TO SCALE



PLAN VIEW



SECTION A

CONCRETE WASHOUT AREA INSTALLATION NOTES:

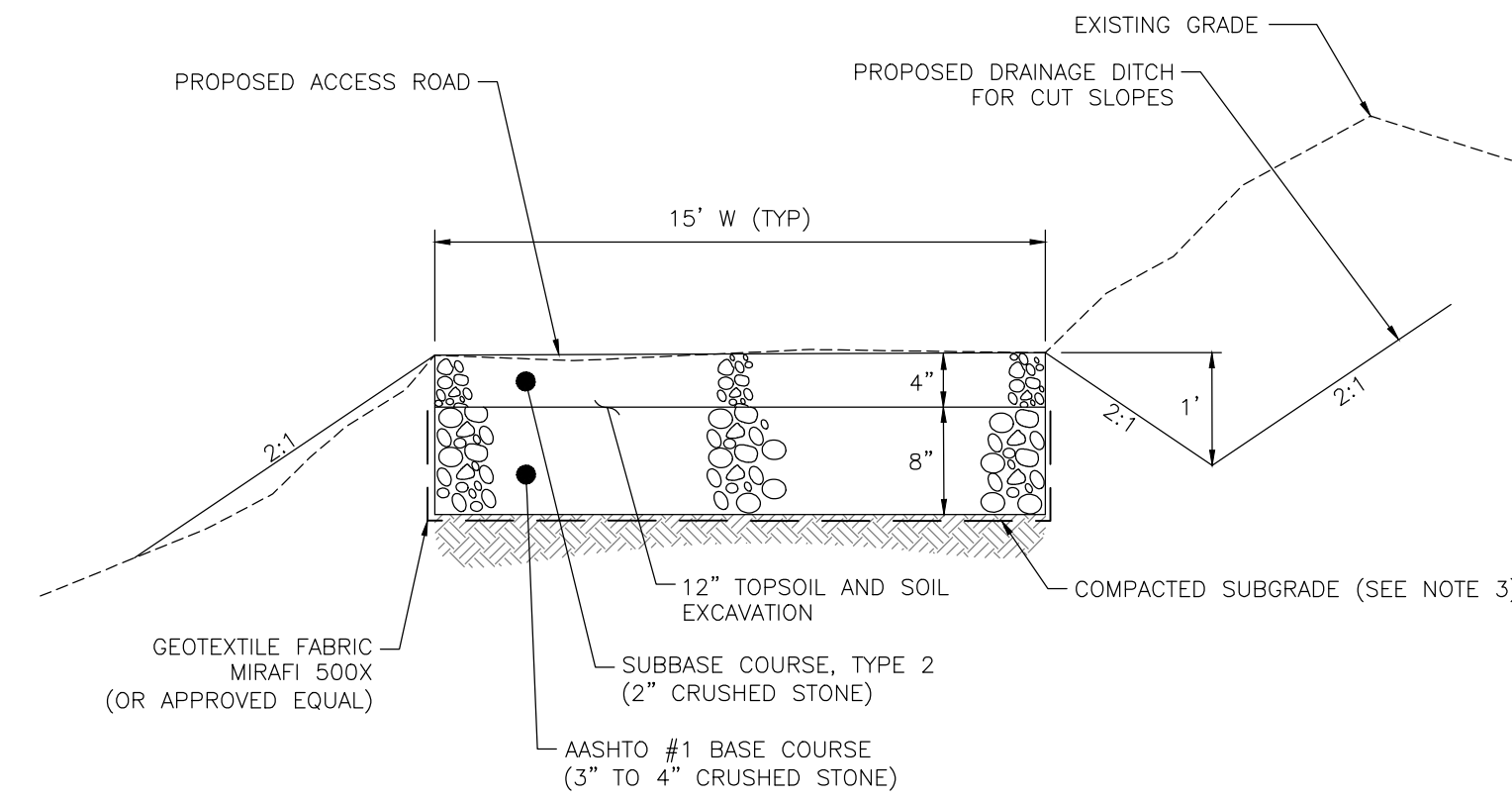
1. CONTRACTOR TO DETERMINE LOCATION OF CONCRETE WASHOUT AREA.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE.
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES:

1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZE IN ACCORDANCE WITH THE SWPPP PREPARED FOR THE PROJECT.
4. INSPECT WEEKLY OR OTHERWISE INDICATED IN THE SWPPP.

CONCRETE WASHOUT (BERM TYPE)

NOT TO SCALE

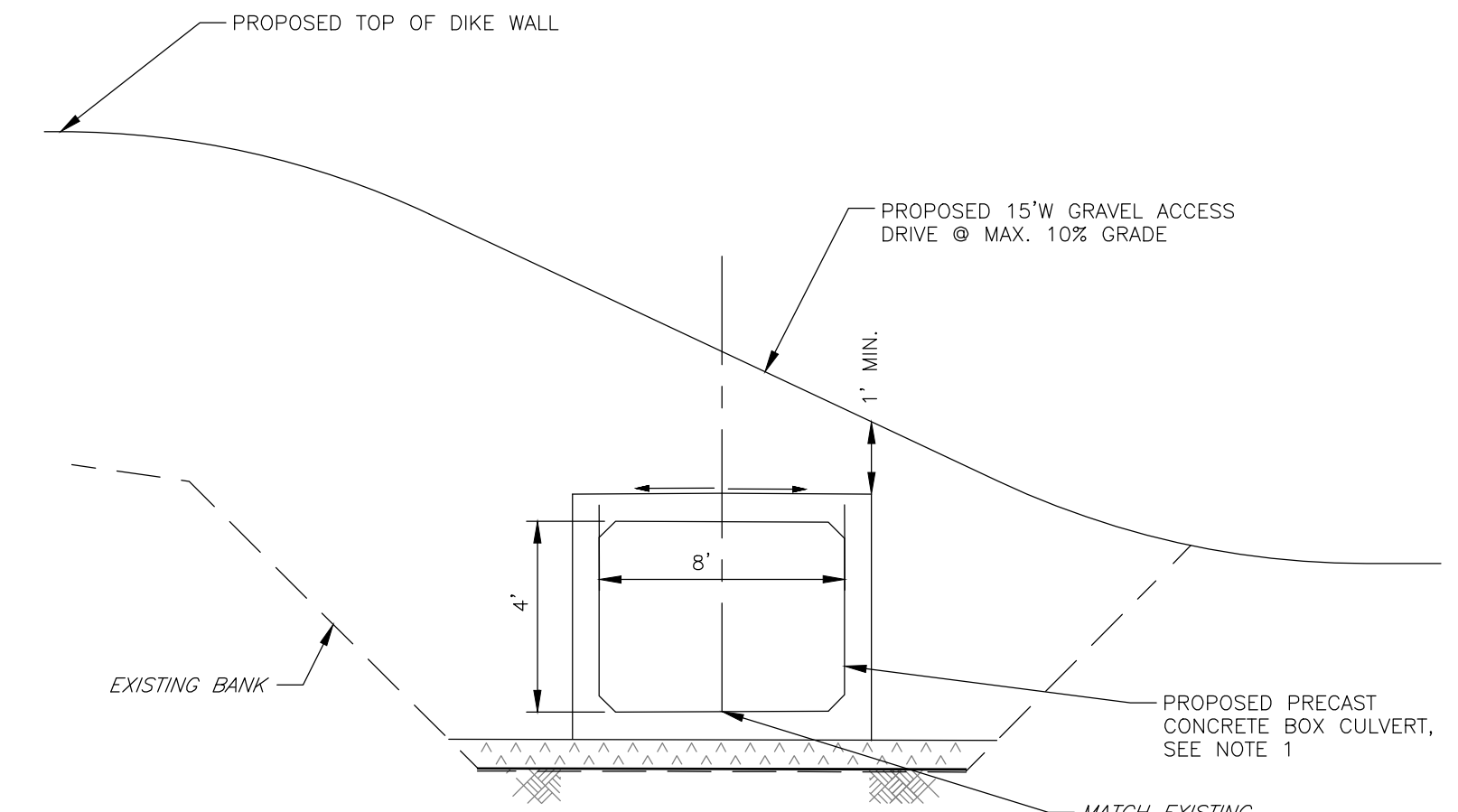


NOTES:

1. ALL MATERIALS SHALL BE NYSDOT APPROVED AND SHALL MEET NYSDOT SPECIFICATIONS FOR MATERIAL REQUIREMENTS AND CONSTRUCTION DETAILS.
2. ALL SPOIL MATERIALS TO REMAIN ON SITE; SEE STOCKPILES AREAS SHOWN ON ES-1 SHEET.
3. STRIP & STOCKPILE ANY EXISTING TOPSOIL AND/OR SOIL MATERIAL TO ACHIEVE REQUIRED STONE DEPTH. PROOFROLL SUBGRADE PRIOR TO GEOTEXTILE PLACEMENT.
4. ALL CUT & FILL SLOPES TO BE GRADED AT 2:1 SLOPES, UNLESS OTHERWISE NOTED ON THE PLANS.
5. PROPOSED GRADES TO MATCH EXISTING GRADES, UNLESS OTHERWISE NOTED ON THE DESIGN SHEETS.

PERMANENT ACCESS ROAD

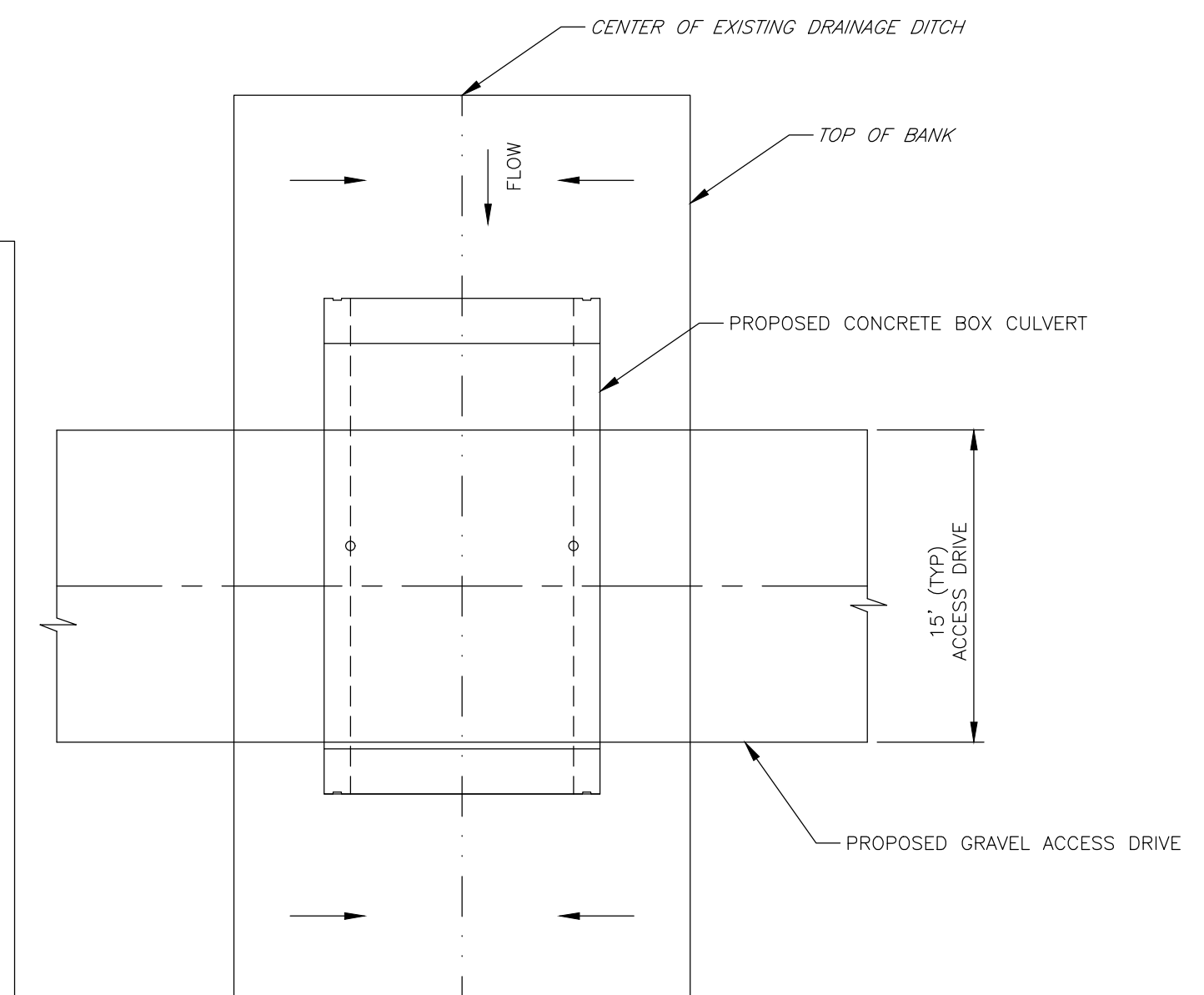
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SECTION VIEW

NOTE:

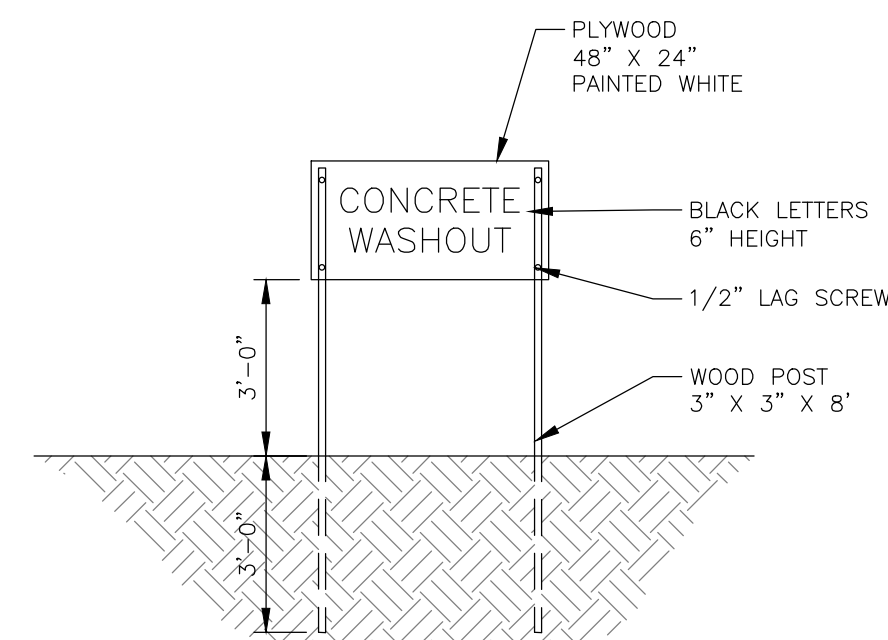
1. FINAL CULVERT DESIGN CONFIGURATION TO BE DETERMINED. WILL BE EITHER A 3 OR 4-SIDED PRECAST CONCRETE BOX CULVERT.



PLAN VIEW

CONCRETE BOX CULVERT TYPICAL DETAIL

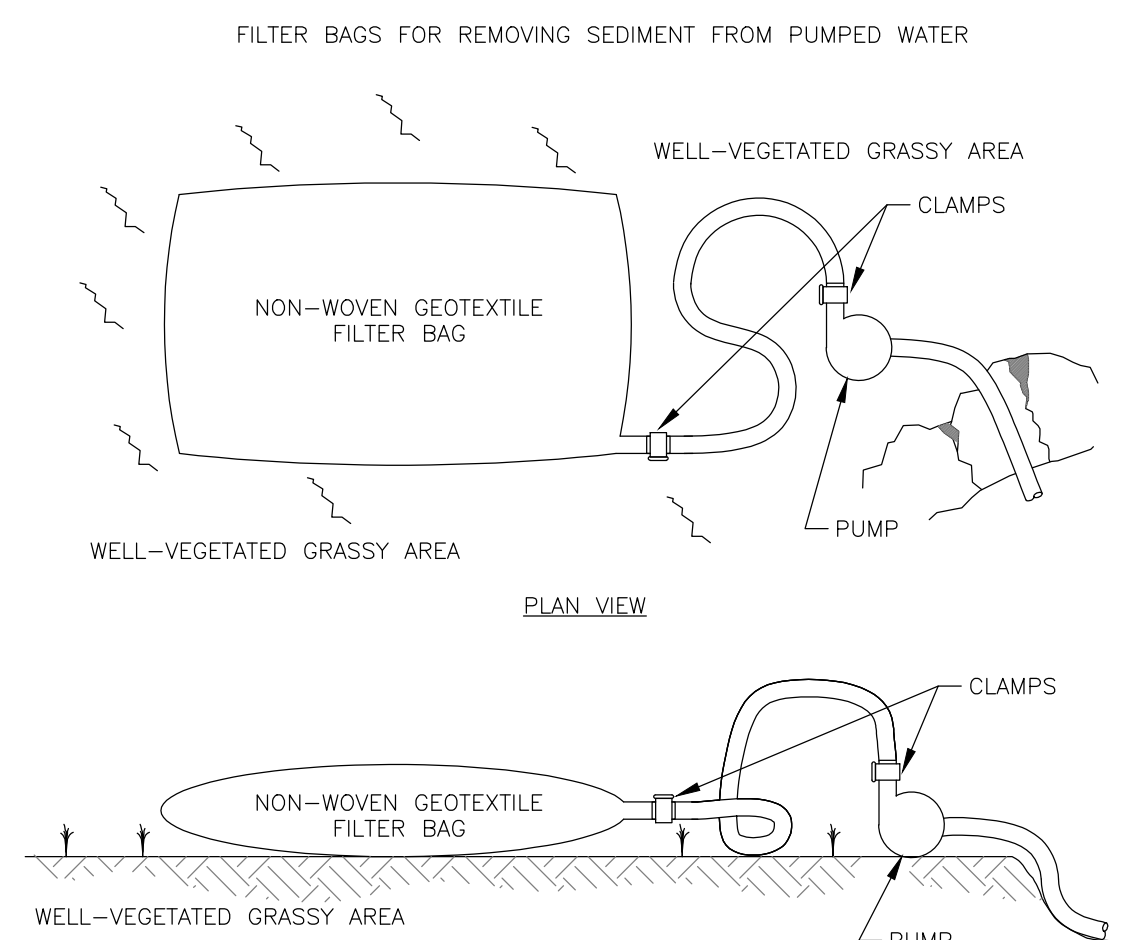
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CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTES:

1. SUMPS TO BE LOCATED IN YARD BUT SHOULD BE KEPT AS FAR FROM DRAINAGE CHANNELS AND WETLAND AREAS AS PRACTICAL.
2. SUMPS TO BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF WORK.
3. METAL STAKES AND/OR #4 REBAR MUST BE LONG ENOUGH TO PENETRATE 6" OF GRAVEL AND ANCHOR INTO UNDERLYING ASPHALT.



ELEVATION VIEW

1. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE 1/2 FILLED WITH SEDIMENT.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
5. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
6. ALL FILTER BAGS AND TRAPPED SEDIMENT SHALL BE REMOVED TO A SUITABLE WASTE AREA WHEN ACCUMULATED SEDIMENTS REACH 1/2 TOTAL BAG CAPACITY.

DEWATERING FILTER BAG

NOT TO SCALE

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	DRAWN BY J. CREE	SCALE AS SHOWN

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PROJECT NEW CRUDE OIL STORAGE TANK 704 PROJECT TOWN OF WEST SENeca ERIE COUNTY, NY	TITLE OF DRAWING DETAILS
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DRAWING NO. D-2

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