

PITTSBURGH WATER & SEWER AUTHORITY 1200 PENN AVENUE PITTSBURGH, PA 15222

SITE AERIAL PHOTO

REFERENCE

1. AERIAL HAS BEEN GENERATED REFERENCING GOOGLE EARTH

2. APPROXIMATE SCALE 1"=500'

PREPARED BY: CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 333 BALDWIN ROAD PITTSBURGH, PA 15205 412-429-2324 800-365-2324



REVISION RECORD NO DATE DESCRIPTION

Civil & Environmental Consultants, Inc. 333 Baldwin Road · Pittsburgh, PA 15205 Ph: 412.429.2324 · 800.365.2324 · Fax: 412.429.2114 www.cecinc.com

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CONSTRUCTION DRAWINGS PANTHER HOLLOW LAKE REHABILITATION PROJECT CITY OF PITTSBURGH, ALLEGHENY COUNTY, PENNSYLVANIA

PREPARED FOR: CITY OF PITTSBURGH, DEPARTMENT OF PUBLIC WORKS-PARKS MAINTENANCE DIVISION

AND

OCTOBER 2019

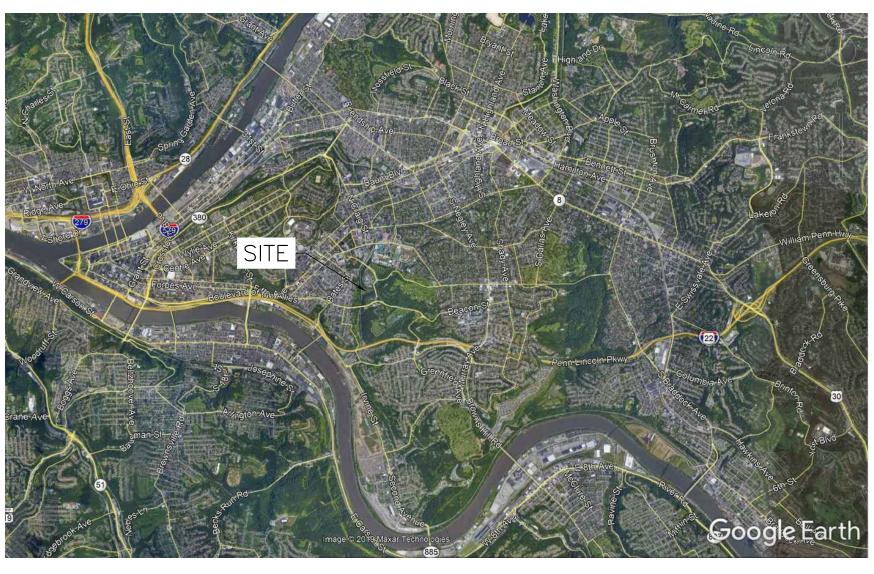
	DRAWING LIST
HEET NO.	DESCRIPTION
G100	COVER SHEET
G101	GENERAL NOTES/LEGEND/ABBREVIATIONS
C100	EXISTING CONDITIONS PLAN
C200	SITE PREPARATION PLAN
C300	PROPOSED SITE GRADING PLAN
C301	LAKE EMBANKMENT PROFILE AND SECTION VIEWS - SHEET 1 OF 2
C302	LAKE EMBANKMENT PROFILE AND SECTION VIEWS - SHEET 2 OF 2
C400	PANTHER HOLLOW LAKE PRINCIPLE AND EMERGENCY SPILLWAY PLAN & PROFILE VIEW
C800	CONSTRUCTION DETAILS - SHEET 1 OF 4
C801	CONSTRUCTION DETAILS - SHEET 2 OF 4
C802	CONSTRUCTION DETAILS - SHEET 3 OF 3
C803	CONSTRUCTION DETAILS - SHEET 4 OF 4
C900	EROSION AND SEDIMENT CONTROL PLAN
C901	EROSION AND SEDIMENT CONTROL PLAN
C902	EROSION AND SEDIMENT CONTROL PLAN
C903	EROSION AND SEDIMENT CONTROL PLAN

SBURGH

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Authority







REFERENCE

1. VICINITY MAP HAS BEEN GENERATED REFERENCING GOOGLE EARTH 2. APPROXIMATE SCALE 1"=2.5 MILE

CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS PITTSBURGH WATER & SEWER AUTHORITY PITTSBURGH, ALLEGHENY COUNTY, PA

VICINITY AERIAL PHOTO

DRAWN BY: CLR CHECKED BY: **JAL** APPROVED BY PJS OCTOBER 2019 DWG SCALE: PROJECT NO: 174-960 DATE DRAWING NO .: **COVER SHEET** G100 PANTHER HOLLOW LAKE **REHABILITATION PROJECT**

<u>GENERAL NOTES</u>
 BEFORE ANY EARTHWORK ACTIVITIES ARE ALLOWED TO BEGIN ONSITE, THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-962-7962 OR 811 A MINIMUM OF 3 DAYS PRIOR TO EARTHWORK ACTIVITIES TO ALLOW THE UTILITY COMPANIES TO MARK THE LOCATIONS OF EXISTING LINES OWNED AND MAINTAINED BY THE UTILITY COMPANIES.
 THE FOLLOWING PERMIT APPLICATIONS HAVE BEEN SUBMITTED FOR WORK TO BE PERFORMED UNDER THIS CONTRACT. THE OWNER HAS RECEIVED PERMISSION FROM THE APPROPRIATE AGENCY TO PROCEED WITH WORK IN ADVANCE OF PERMIT APPROVAL. THE CONTRACTOR SHALL FOLLOW ALL STIPULATIONS OF THE PERMIT APPLICATIONS.
A. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM PADEP FOR STORMWATER

B. STORMWATER POLLUTION PROTECTION PLAN (SWPPP).

DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

- C. EROSION AND SEDIMENT CONTROL PLAN.
- D. PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) DAM PERMIT.
- EXISTING TOPOGRAPHY AND DIMENSIONS WERE OBTAINED FROM A COMPILATION OF TOPOGRAPHIC GROUND SURVEY AND GIS DATA INFORMATION. TOPOGRAPHIC ELEVATIONS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD AND INVERTS SHOULD BE CHECKED IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER AND THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.

- 4. EXACT PLAN LOCATION, SURFACE ELEVATION, AND INVERT ELEVATION LOCATION OF ALL EXISTING UTILITIES SHOULD BE VERIFIED.
- 5. A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT, GRAVEL AREAS OR TOPOGRAPHY, AND NEW PAVEMENT, GRAVEL AREAS OR TOPOGRAPHY SHOULD BE PROVIDED. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
- 6. ONE SET OF AS-BUILT / RECORD DRAWINGS SHOULD BE MAINTAINED ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
- EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, GRADING, EXCAVATION, FILLING, UNDERCUT AND REPLACEMENT, AND COMPACTION.
- 8. ALL AREAS NOT PAVED OR GRAVELED SHALL BE STABILIZED IN ACCORDANCE WITH THE SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- 9. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
- 10. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES, SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES AND REGULATIONS.
- 11. REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED FOR THIS PROJECT BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORMWATER CONSTRUCTION.

LAYOUT GENERAL NOTES

- CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED. OR AS NECESSARY FOR CONSTRUCTION. INSTALL ALL UTILITIES, INCLUDING CONDUITS, PRIOR TO INSTALLATION OF PAVED SURFACES.
- 2. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
- 3. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
- 4. CONTRACTOR SHALL ADJUST THE PROPOSED ELEVATION AT THE TOP OF EXCAVATION SLOPES AS NEEDED TO TIE INTO EXISTING GROUND.
- 5. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD.

DEMOLITION GENERAL NOTES

- 1. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY/AGENCY. UTILITY CONTACTS ARE LISTED BELOW.
- 2. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. STRUCTURES, AND FEATURES TO REMAIN, ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- 5. PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT WHERE INDICATED ALONG LIMITS OF PAVEMENT DEMOLITION.
- 6. ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL, WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY AND/OR AGENCY.
- NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 8. THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITY.

UTILITY GENERAL NOTES

- THE APPROPRIATE AGENCY.
- CONSTRUCTION.
- SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.

VERTICAL DATUM: NAVD88 (GEIOD 12A)

HORIZONTAL DATUM: NAD83 NORTH ZONE (2011)

BENCHMARKS TABLE:

CONTROL POINTS				
CONTROL POINT NO.	NORTHING	EASTING	ELEVATION	
16	1356619.682'	409503.329'	811.576'	
17	1357146.573'	409614.972'	816.632'	
1000	1356377.623'	409670.92'	808.985'	
1001	1356664.538'	409548.924'	806.256'	

DATUM NOTES:

TECHNIQUES IN MAY 2018.

REFERENCE

- DATED OCTOBER 2017.
- 2018.
- ALLEGHENY COUNTY, PA LIDAR, DATED 2017.
- MAY-JULY 2018.

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ATE	DESCRIPTION		
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1. ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH

2. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS.

3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED UTILITY WORK PERMITS PRIOR TO COMMENCEMENT OF

4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES AND UNDERGROUND ELECTRIC CONDUITS DO NOT CONFLICT WITH SANITARY

5. ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE INDICATED.

6. CONTRACTOR IS TO COORDINATE WITH EACH UTILITY PROVIDER REGARDING INSTALLATION OF UTILITY CONDUITS FOR ELECTRICAL WORK. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR FOR THE TRENCHING AND CONDUIT INSTALLATION. COST FOR INSTALLATION AND MATERIALS SHALL BE INCLUDED IN VARIOUS BID ITEMS.

DATUM AND TOPOGRAPHIC SURVEY

1. SITE BENCHMARKS OBTAINED FROM AWK CONSULTING ENGINEERS, INC. USING GROUND SURVEY

1. PANTHER HOLLOW LAKE BATHYMETRICAL SURVEY PERFORMED BY AWK CONSULTING ENGINEERS, INC.,

2. POTHOLING UTILITY INVESTIGATION PERFORMED BY TERRA TESTING INC., DATED OCTOBER AND NOVEMBER

3. EXISTING TOPOGRAPHY AND CONTOURS DERIVED FROM PHOTOGRAMETRY SURVEY PERFORMED BY LAND MAPPING, INC. DATED NOVEMBER 2016, AWK CONSULTING ENGINEERS, INC. FIELD SURVEY, DATED JUNE 2018, CIVIL & ENVIRONMENTAL CONSULTANTS, INC. FIELD SURVEY, DATED JULY-AUGUST 2018, AND

I. STREAM AND WETLAND DELINEATION PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED

AMERICAN CONCRETE INSTITUTE
ALTERNATE
APPROXIMATE
AMERICAN SOCIETY FOR TESTING AND MATERIALS
BY OTHERS
CENTERLINE
CAST-IN-PLACE, CAST IRON PIPE
CONCRETE
CONTRACTOR WORK LIMITS
CUBIC YARD
DIAMETER
DRAWING
EROSION AND SEDIMENT
ELEVATION
EXISTING
FOOT, FEET
GAGE
HIGH-DENSITY POLYETHYLENE
HORIZONTAL
INCH, INCHES
POUND. POUNDS
LIMITS OF DISTURBANCE
MAXIMUM
MISCELLANEOUS

EXISTING PROPERTY LINE

EXISTING AUXILIARY BUILDING

EXISTING EDGE OF SIDEWALK

EXISTING ROAD CENTERLINE

EXISTING BODY OF WATER

EXISTING TREE/SHRUB LINE

EXISTING BRIDGE

EXISTING WALL

EXISTING STREAM

EXISTING FENCE

EXISTING TREE

EXISTING POST/SIGN

EXISTING GIS WETLAND

PROPOSED PAVED LIMITS

PROPOSED INTERMEDIATE CONTOUR

PROPOSED RIPRAP OUTFALL APRON

PROPOSED HEADWALL/ENDWALL

GEOTECHNICAL BORING LOCATION

PIEZOMETER INSTALLATION LOCATION

PROPOSED WATERLINE

EXISTING GUIDERAIL

EXISTING RAILROAD

EXISTING EDGE OF CONCRETE TRAIL

EXISTING EDGE OF UNPAVED TRAIL

EXISTING EDGE OF PAVED DRIVEWAY

EXISTING INTERMEDIATE CONTOUR

EXISTING INDEX CONTOUR

EXISTING BUILDING

EXISTING CURB

EXISTING EDGE ROAD

STANDARD LEGEND

NOT APPLICABLE

NORTH AMERICAN DATUM

APPROX

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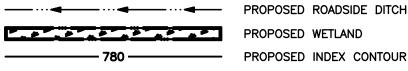
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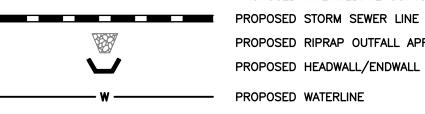
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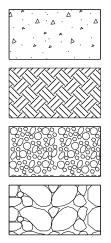
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CONCRETE

EARTH

GRAVEL

RIPRAP





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STANDARD ABBREVIATIONS

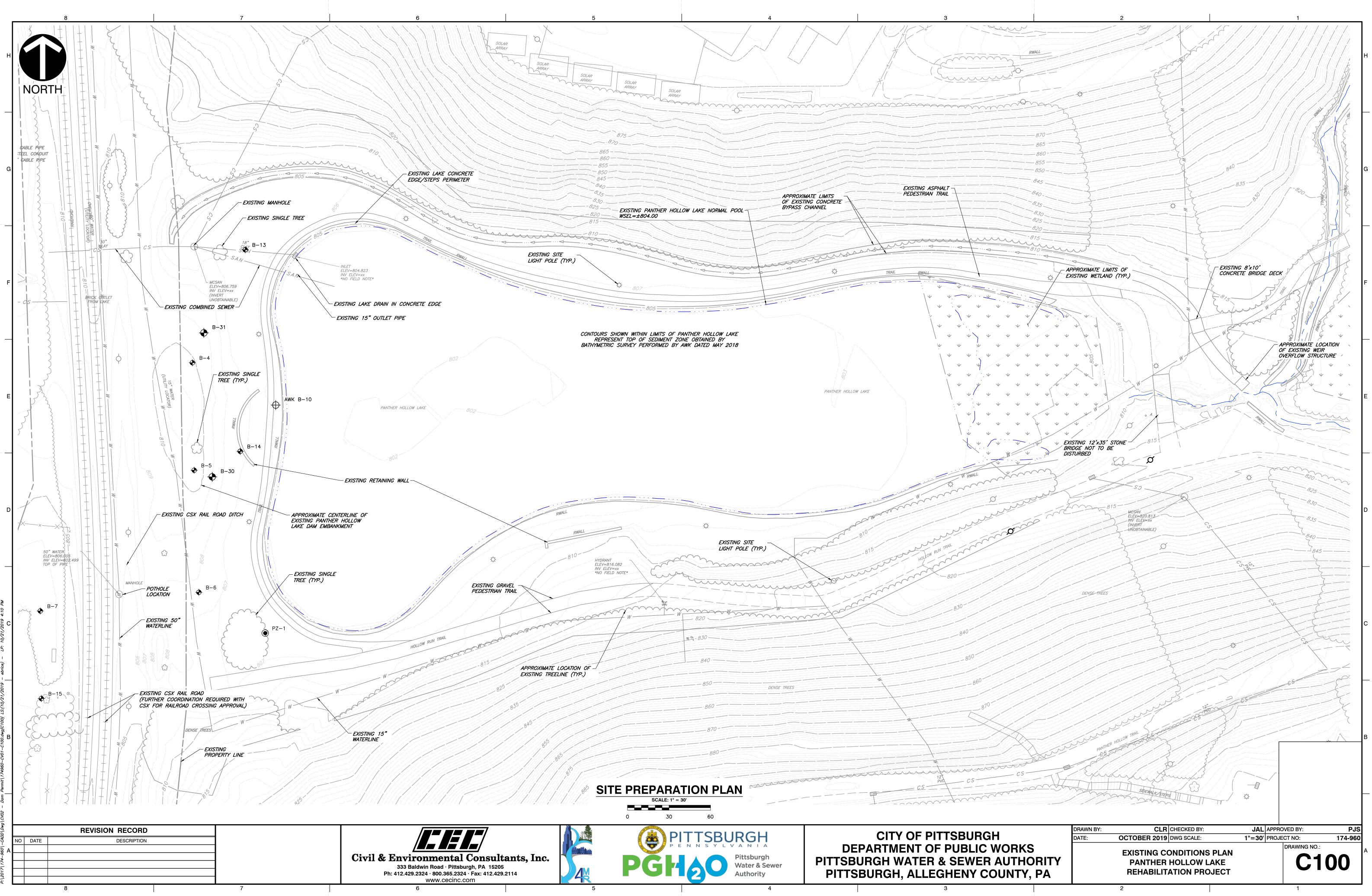
NAVE NGVD NO NTS 0&M OD OPNG PA PSF PSI PVI **PVT** REINF REQ'D SCH STA STD TYP UNO VERT

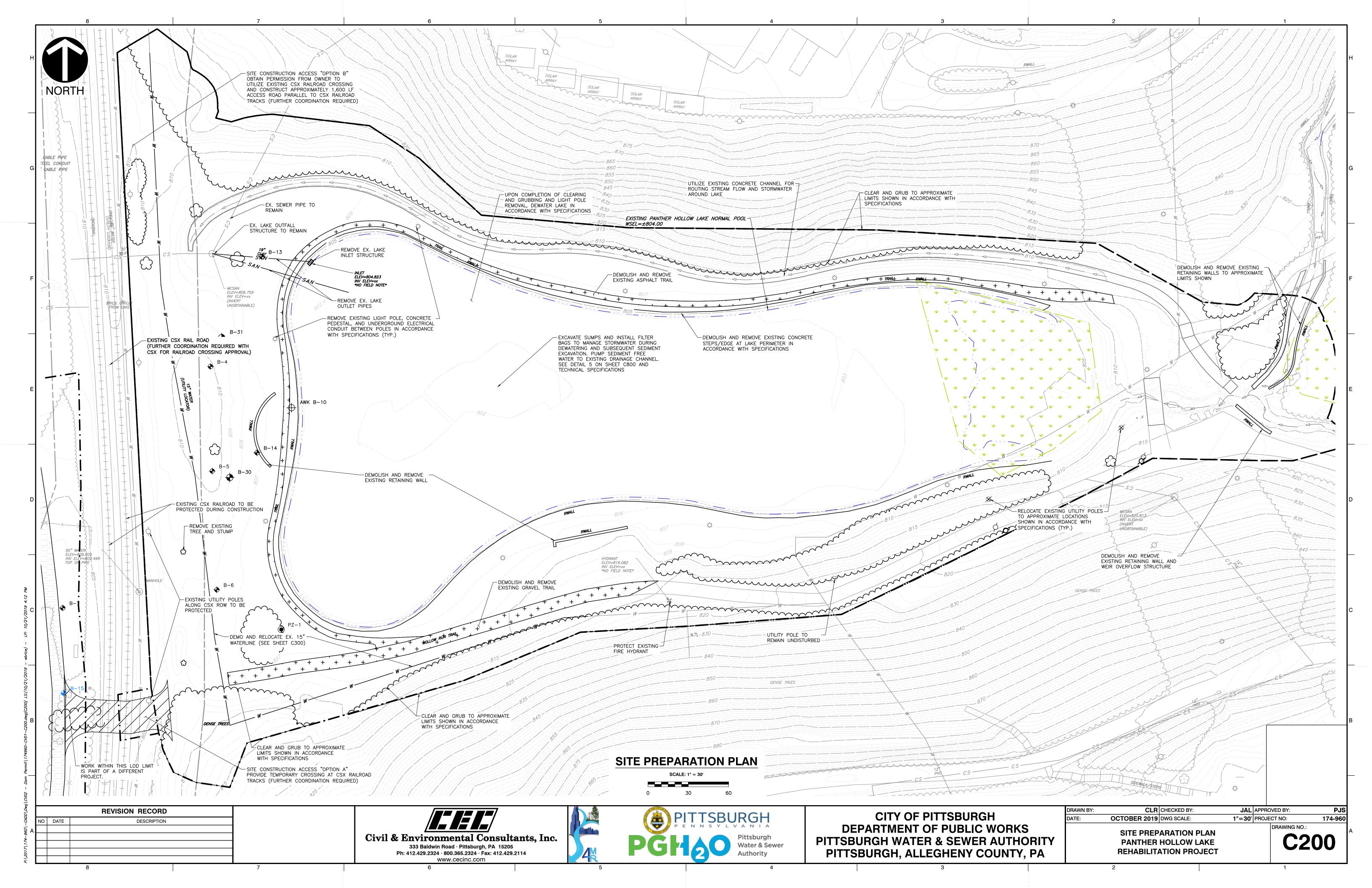
NORTH AMERICAN VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM NUMBER NOT TO SCALE OPERATION AND MAINTENANCE OUTSIDE DIAMETER OPENING PENNSYI VANIA POINT OF INTERSECTION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY REINFORCEMENT REQUIRED SCHEDULE STATION STANDARD TYPICAL UNLESS NOTED OTHERWISE VERTICAL WORK POINT

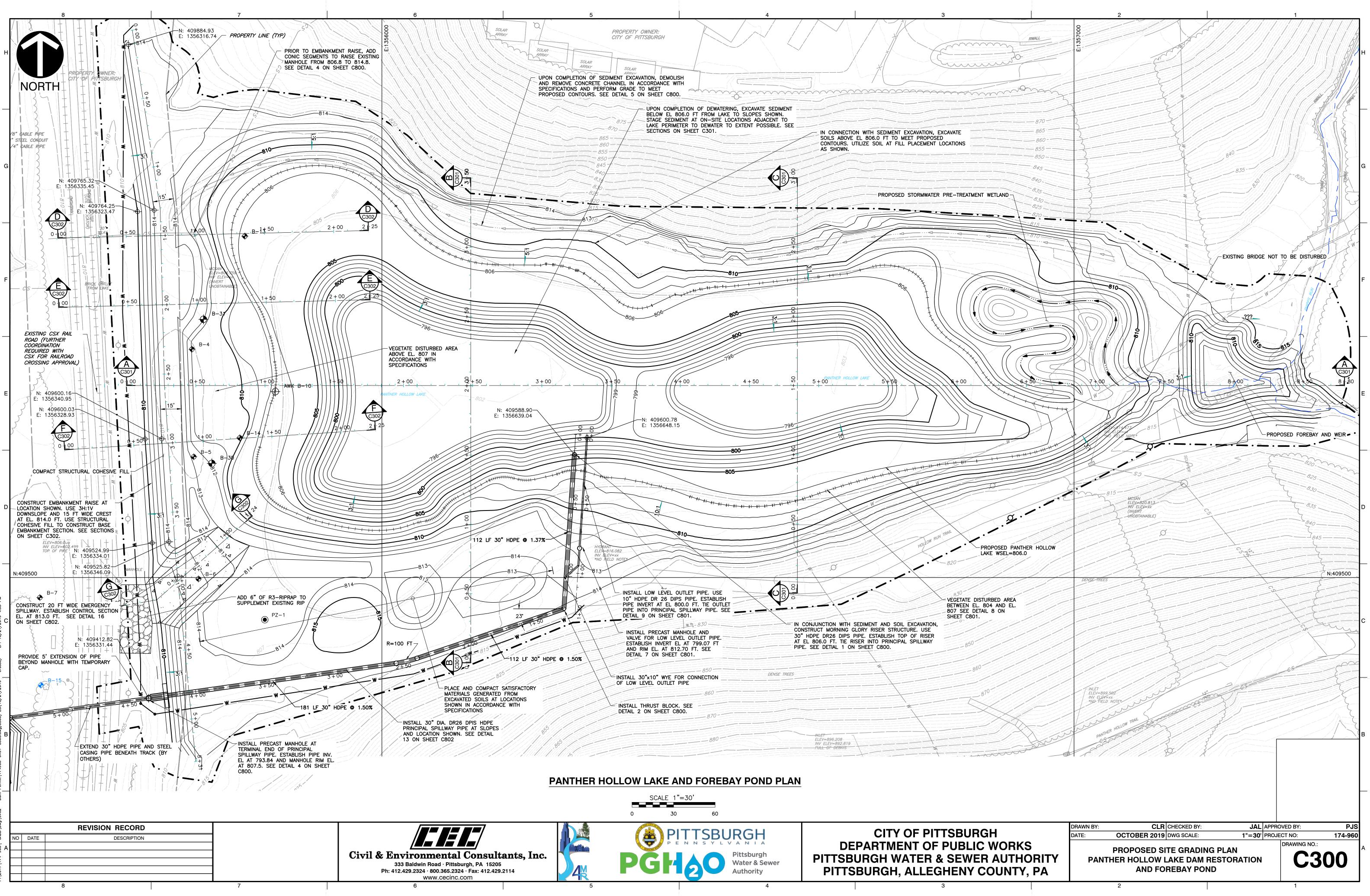
PROPOSED CONTRACTOR LIMITS OF DISTURBANCE

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	DATE:	OCTOBER 2019	DWG SCALE:	AS-SHOWN	PROJE	ECT NO:	174-960
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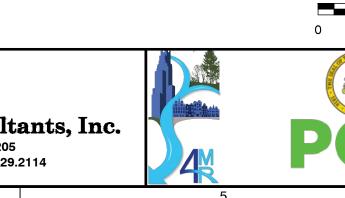
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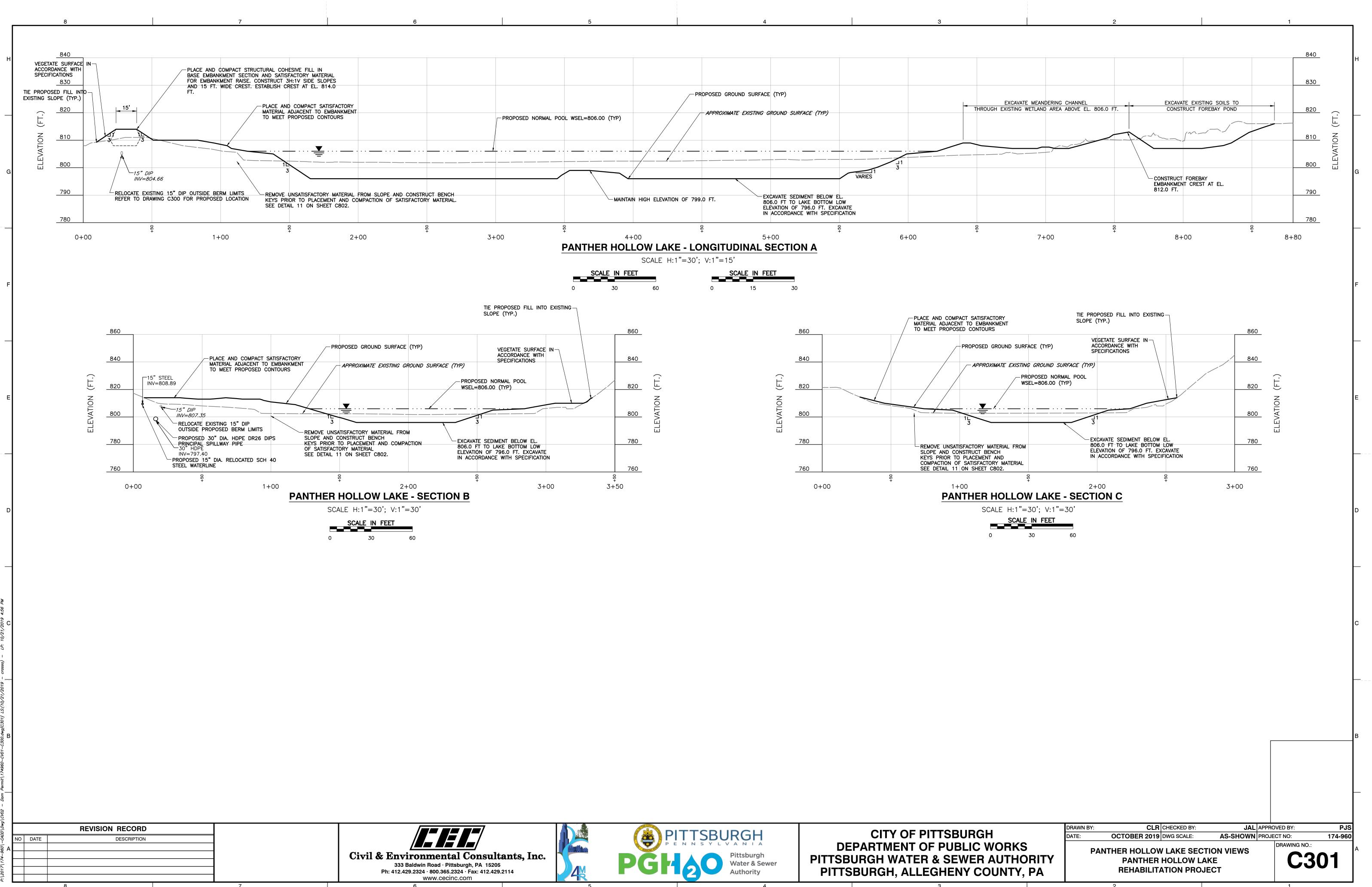




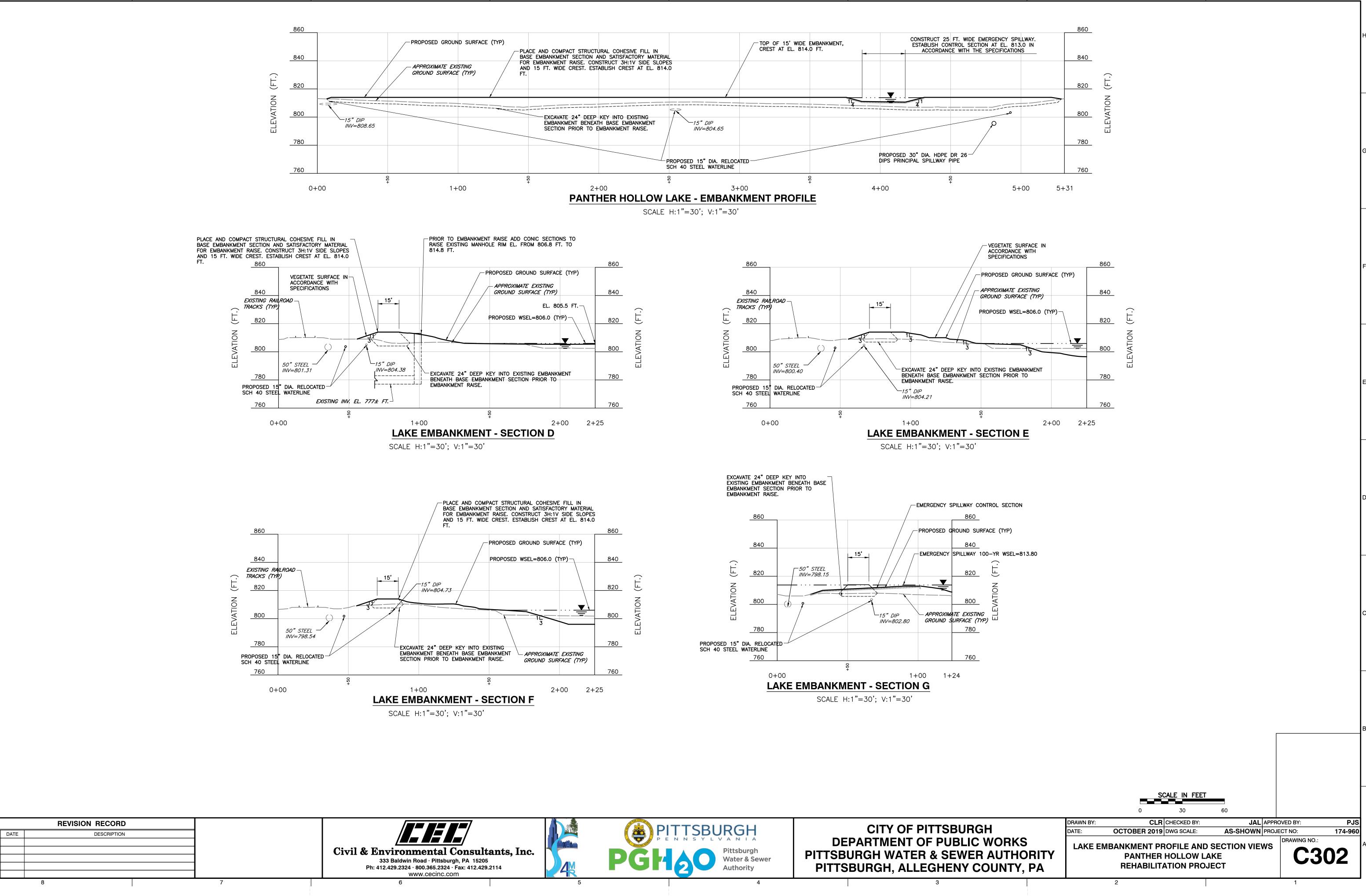


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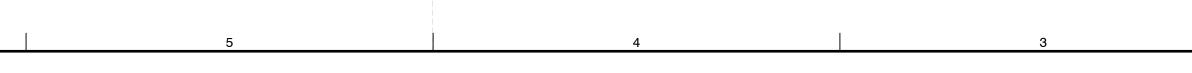


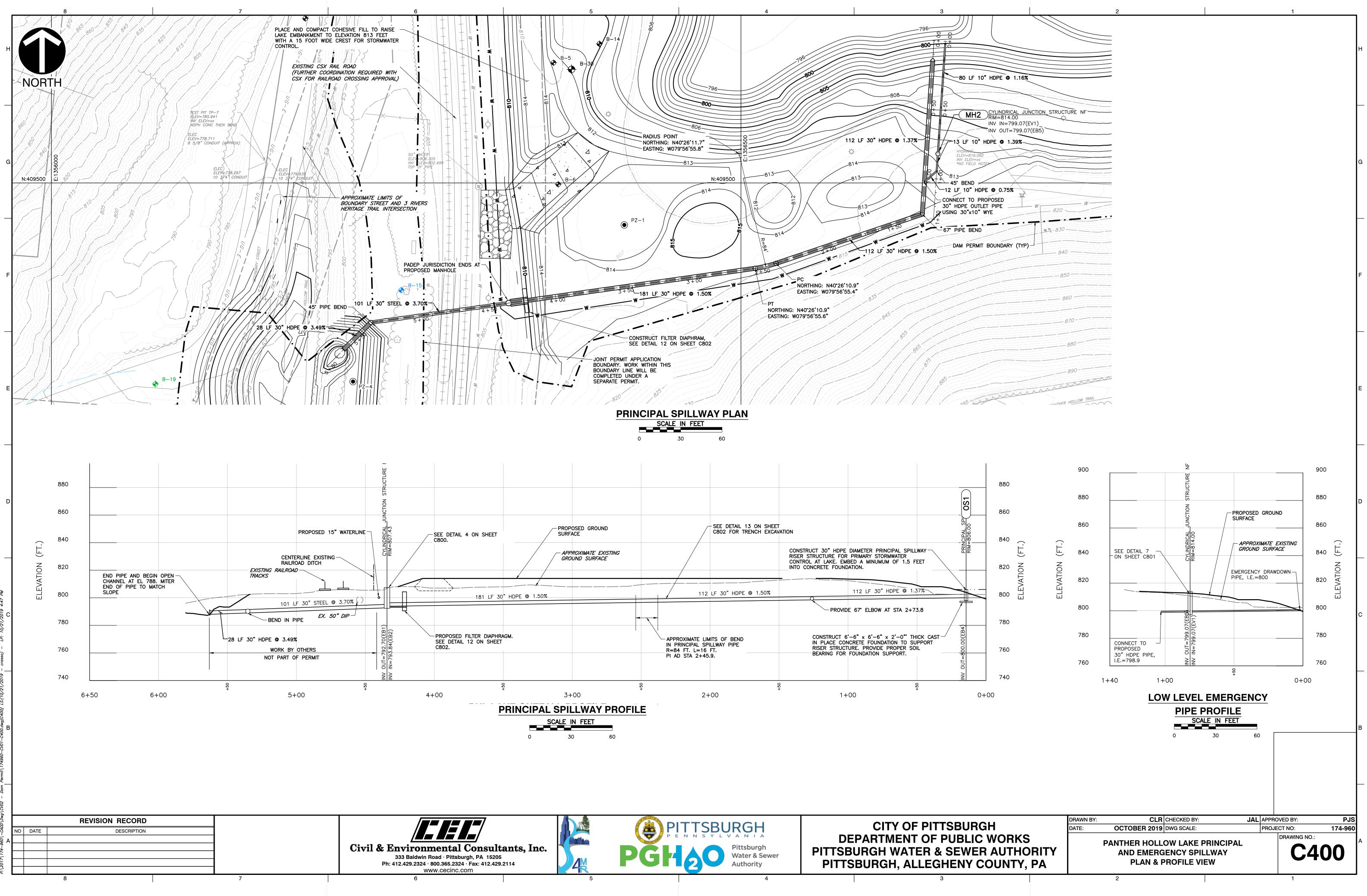


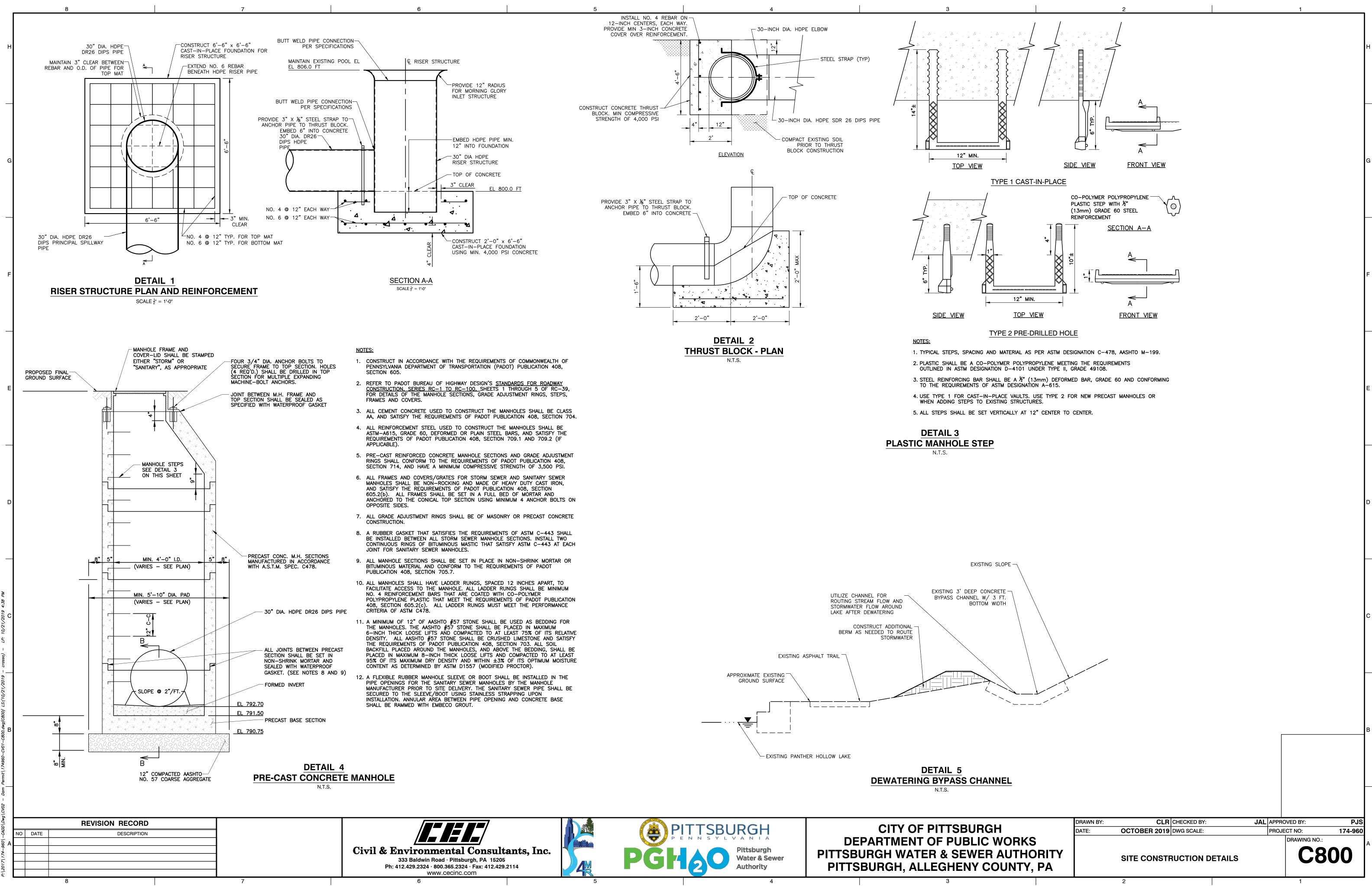
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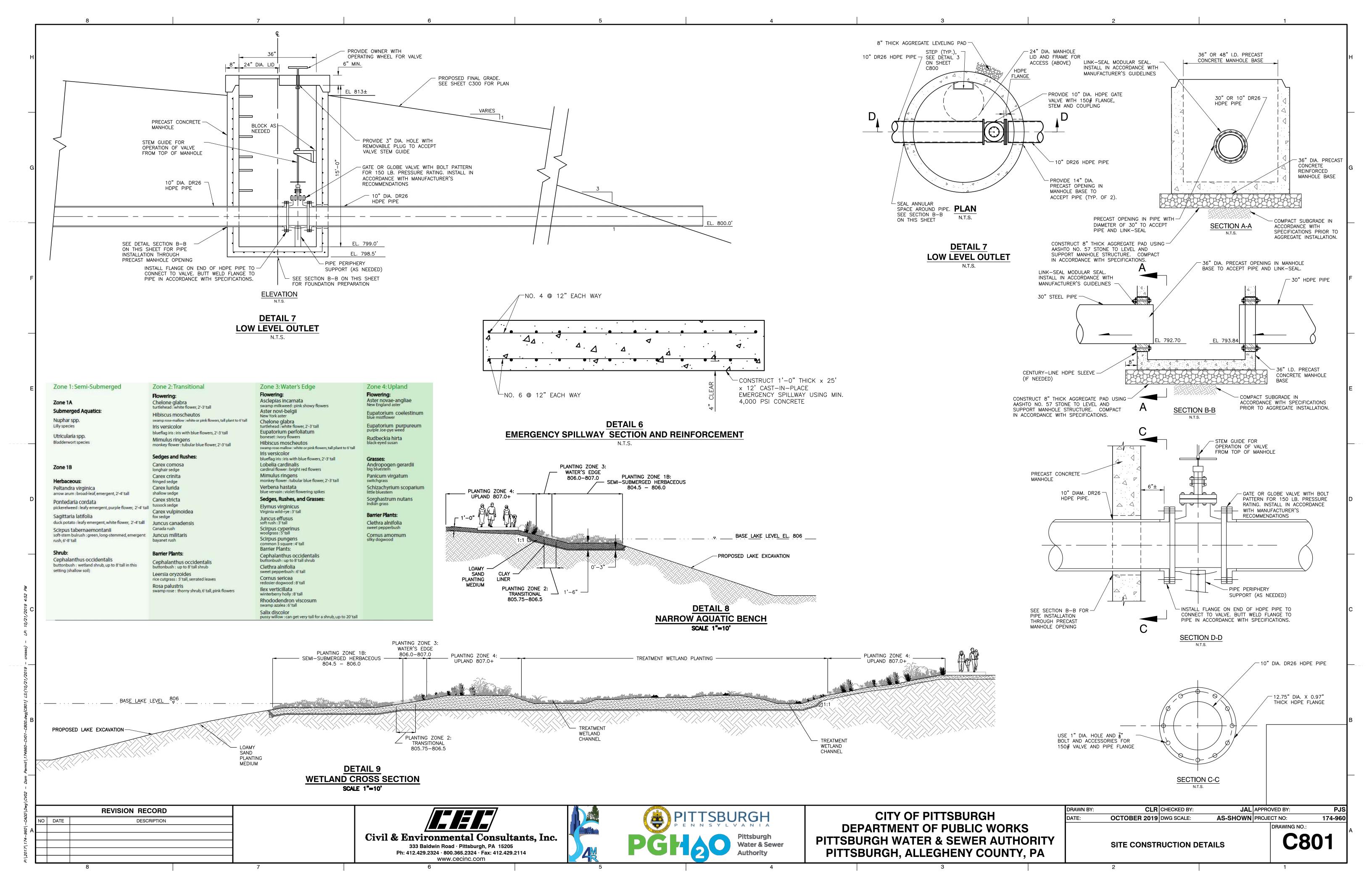


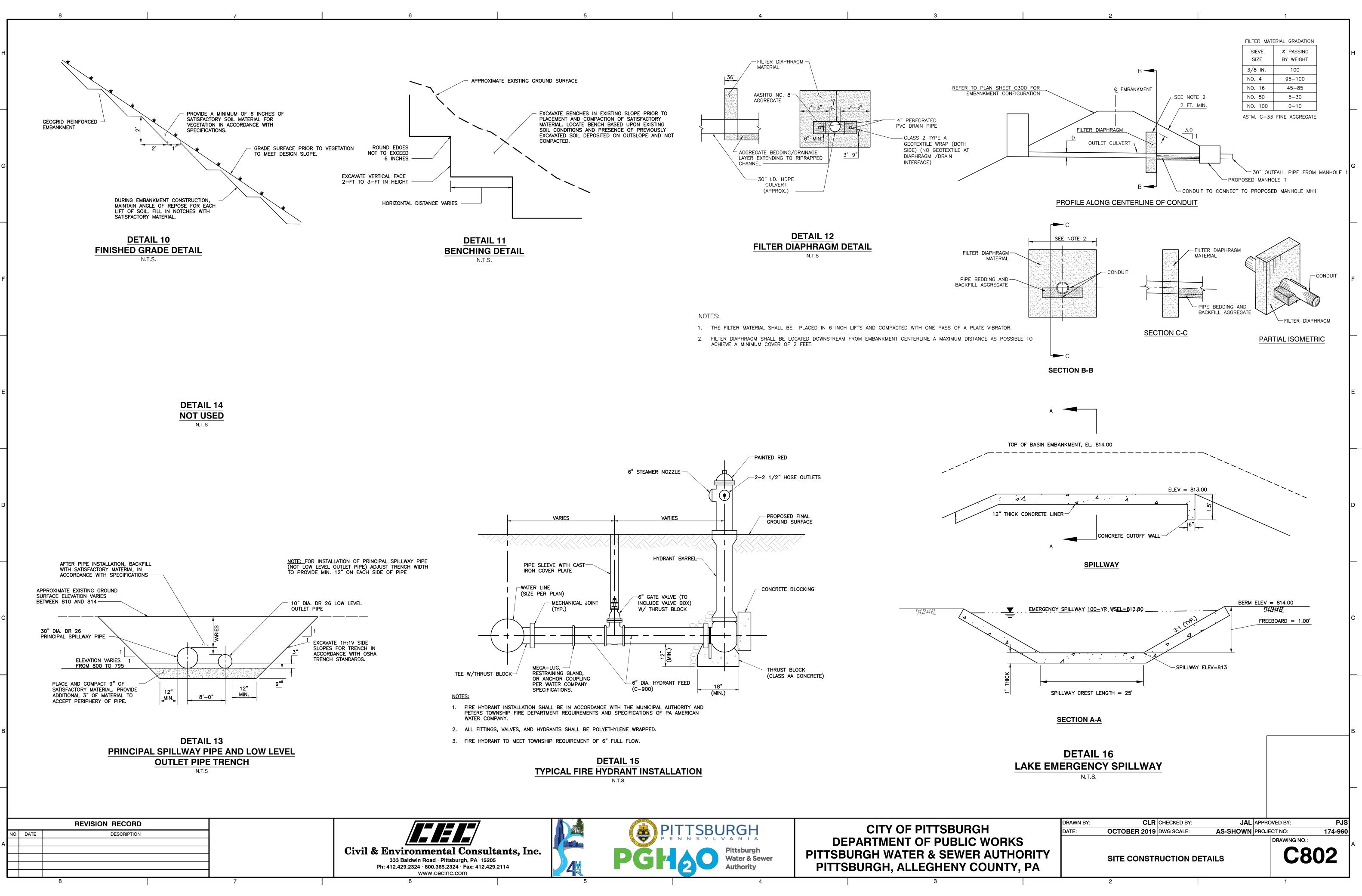
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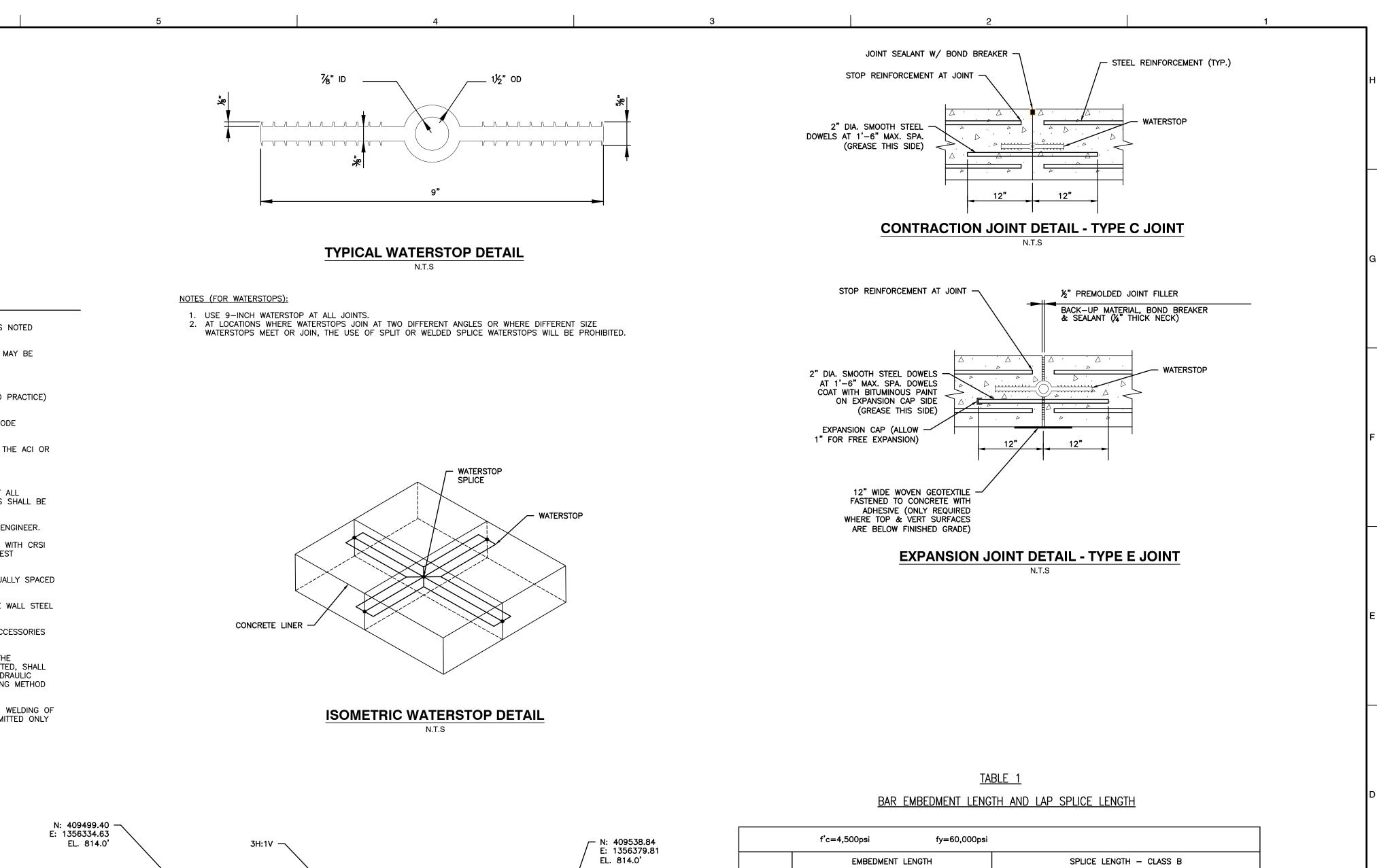
8 7	6
GENERAL NOTES 1. ALL ELEVATIONS AND COORDINATES ARE BASED VERTICAL AND HORIZONTAL DATUM INFORMATI PROVIDED ON SHEET G101.	ION
 ALL STATIONS AND ELEVATIONS ARE IN FEET, UNLESS NOTED OTHERWISE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES, REGULAND ORDINANCES DURING ALL PHASES OF CONSTRUCTION. THE STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE STRUCTURES IN A AND STABLE CONDITION DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY BRACING, TIE-DOWNS, PROTECTION AGAINST DAMAGE OR OTHER ITEMS THAT MAY BE NECESSARY. 	DN IS SAFE
CONCRETE AND REINFORCEMENT	
 ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, UNLESS NOTED OTHERWISE. 	13. ALL REINFORCEMENT SHALL BE DISCONTINUED AT EXPANSION JOINTS, UNLESS NO OTHERWISE.
2. STRUCTURAL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, $f'c = 5,000$ PSI AT 28 DAYS.	14. SUBJECT TO APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE, BARS MAY SHIFTED SLIGHTLY TO AVOID EMBEDDED ITEMS AND OTHER OBSTRUCTIONS.
 ALL REFERENCES TO REFERENCE STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR ON THE DRAWINGS. 	 15. REINFORCING BARS: ASTM A615, GRADE 60. 16. BAR SUPPORTS CLASS 1, MAXIMUM PROTECTION (CRSI MANUAL OF STANDARD PR/ FOR ALL SLABS AND BEAMS WITH SOFFITS EXPOSED TO VIEW.
4. FORMED AND UNFORMED CONCRETE SURFACE FINISHES SHALL BE AS NOTED IN THE SPECIFICATIONS.	17. ALL REINFORCING STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE ACI CODE REQUIREMENTS (ACI 318 CURRENT EDITIONS).
5. PREPARE CONCRETE SURFACES AGAINST WHICH ADDITIONAL CONCRETE IS TO BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS. HORIZONTAL CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A MINIMUM AMPLITUDE OF 1/4", EXPOSING CLEAN, SOUND AGGREGATE. SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED.	 18. REINFORCING STEEL PLACING DRAWINGS AND BAR LISTS SHALL CONFORM TO THE CRSI DETAILING MANUALS. ALL BAR SUPPORTS MUST BE CLEARLY DETAILED. 19. HOOKS AND BENDS SHALL BE ACI STANDARD UNLESS OTHERWISE INDICATED.
6. ALL EXPOSED EDGES SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED.	20. CONTINUOUS REINFORCING BARS SHALL BE PROVIDED WITH TENSION LAPS AT ALL SPLICES, UNLESS NOTED OTHER WISE NOTED. ALL STEEL REINFORCING LAPS SHA
7. PROVIDE CONCRETE COVER FOR REINFORCEMENT AS FOLLOWS, UNLESS OTHERWISE NOTED: A. UNFORMED CONCRETE PLACED AGAINST EARTH 4"	TENSION B LAPS TYPICAL, UNLESS NOTED OTHERWISE. 21. MECHANICAL SPLICES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGI
B. SURFACES TO BE IN CONTACT WITH EARTH OR WATER:LESS THAN OR EQUAL TO 2 FT THICK 3"	22. REINFORCING STEEL FABRICATION AND PLACEMENT SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS (LATEST EDITIONS).
GREATER THAN 2 FT THICK 4" SUBFACES SUBJECT TO ABBASION BY FLOWING WATER 6"	23. REINFORCING STEEL IN FOOTINGS SHALL BE ASSEMBLED IN MAT GRILLES EQUALLY AND SECURELY WIRED TOGETHER BEFORE THE CONCRETE IS POURED.
C. SURFACES SUBJECT TO ABRASION BY FLOWING WATER 6" D. OTHER LOCATIONS, UNO 2"	24. WALL FOOTING DOWELS ARE TO HAVE A FULL TENSION LAP SPLICE WITH THE WAL UNLESS NOTED OTHERWISE.
8. PROVIDE EMBEDMENT OF CONCRETE REINFORCEMENT AND CLASS B LAP SPLICES IN ACCORDANCE WITH TABLE 1 ON THIS SHEET, UNLESS NOTED OTHERWISE.	25. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESS IN CONCRETE.
 WHEN BARS OF DIFFERENT SIZES ARE SPLICED, THE SPLICE LENGTH SHALL BE BASED ON THE LARGER OF THE EMBEDMENT LENGTH OF THE LARGER BAR OR THE TENSION LAP SPLICE LENGTH OF THE SMALLER BAR. 10. REINFORCEMENT SPLICES MAY BE REQUIRED THAT ARE NOT SHOWN ON THESE PLANS. 	26. NO REINFORCING STEEL SHALL BE FIELD BENT WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. FIELD BENDING OF PLAIN REINFORCEMENT, IF PERMITTED, BE PERFORMED USING AN APPROVED AND APPROPRIATE SIZED PORTABLE HYDRAU DEVICE THAT MAKES ACI STANDARD RADIUS BENDS. NO OTHER FIELD BENDING M SHALL BE PERMITTED.
SPLICE LOCATIONS AND LENGTHS SHALL BE CLEARLY SHOWN ON THE REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE.	27. WELDING, INCLUDING TACK WELDING, FOR REINFORCING STEEL IS PROHIBITED. WEL REINFORCING STEEL AND HIGH STRENGTH BOLTS (A325, A490) WILL BE PERMITTE
11. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, ETC. THAT MAY BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.	BY WRITTEN APPROVAL OF THE ENGINEER.
12. ADDITIONAL CONSTRUCTION JOINTS (HORIZONTAL AND VERTICAL) SHALL BE SUBMITTED WITH SHOP DRAWINGS FOR APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE. ALL CONSTRUCTION JOINTS SHALL HAVE WATERSTOPS, UNLESS NOTED OTHERWISE.	

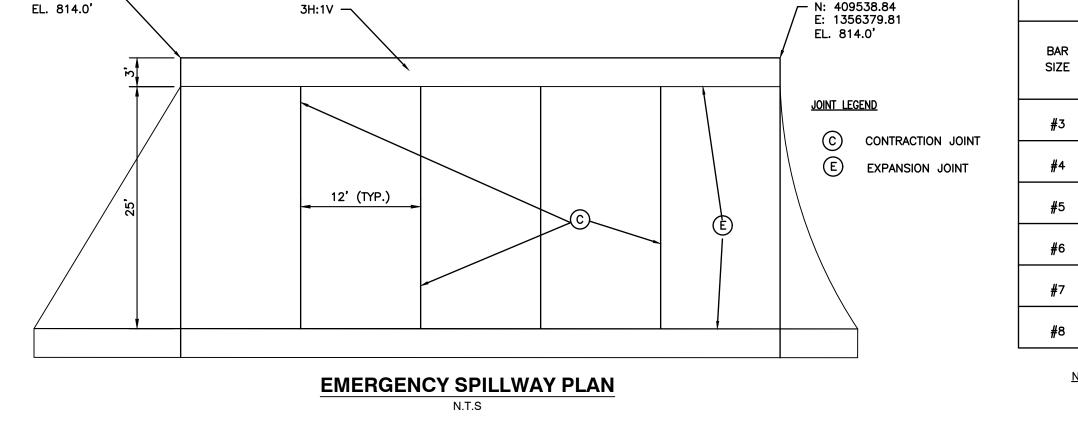
REVISION RECORD

DESCRIPTION

NO DATE









CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS PITTSBURGH WATER & SEWER AUTHORITY PITTSBURGH, ALLEGHENY COUNTY, PA

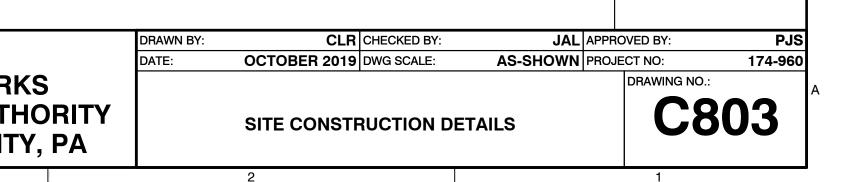
f'c=4,500psi	fy=60,000psi		
EMBEDN	IENT LENGTH	SPLICE LENG	TH – CLASS B
TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
1'-0"	1'-0"	1'-2"	1'-0"
1'-2"	1'-0"	1'-7"	1'-2"
1'-6"	1'-2"	1'-11"	1'-6"
1'—9"	1'–5"	2'-4"	1'-9"
2'-7"	2'-0"	3'-4"	2'-7"
2'-11"	2'-3"	3'–10"	2'-11"

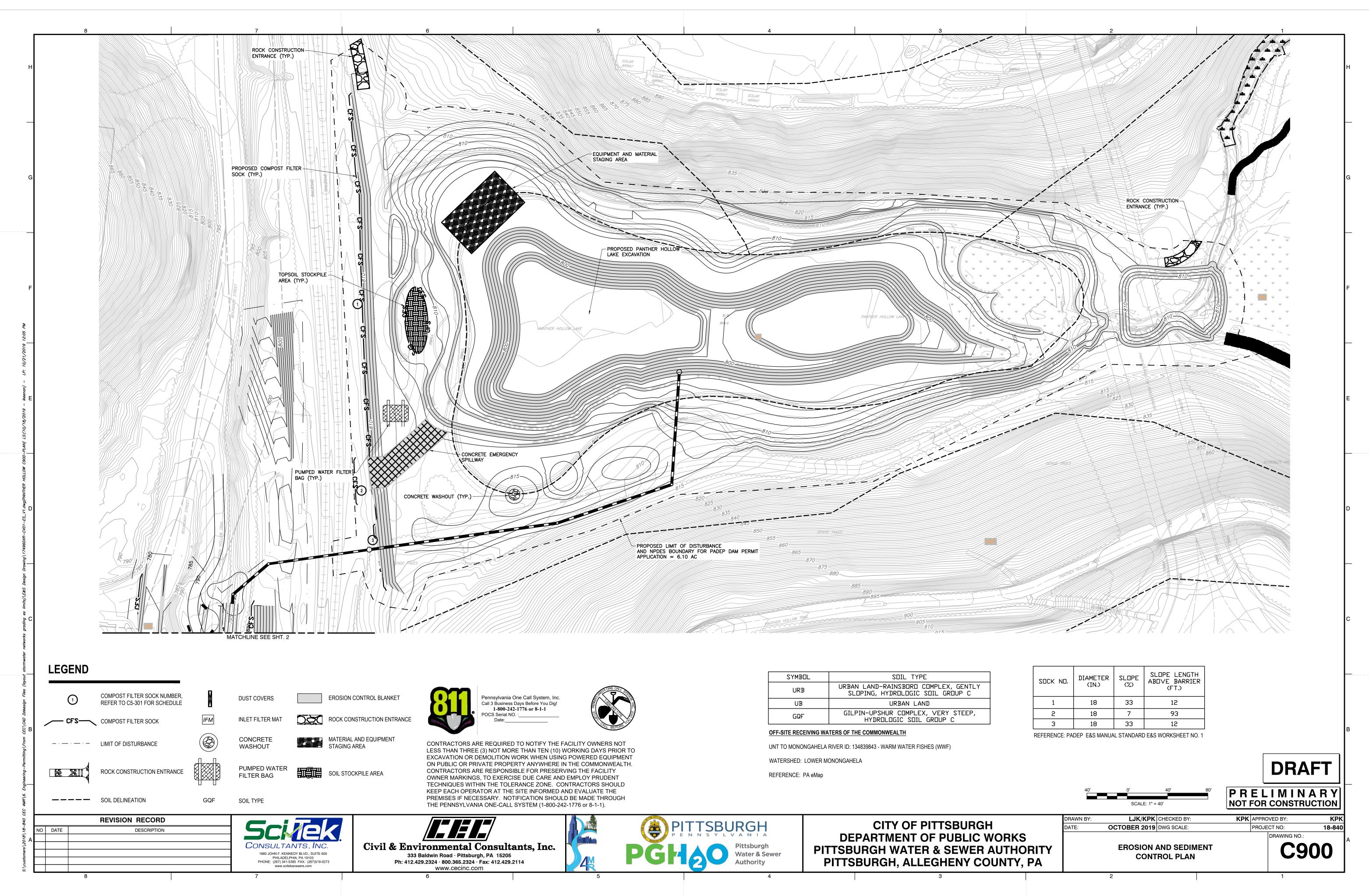
NOTES FOR TABLE 1:

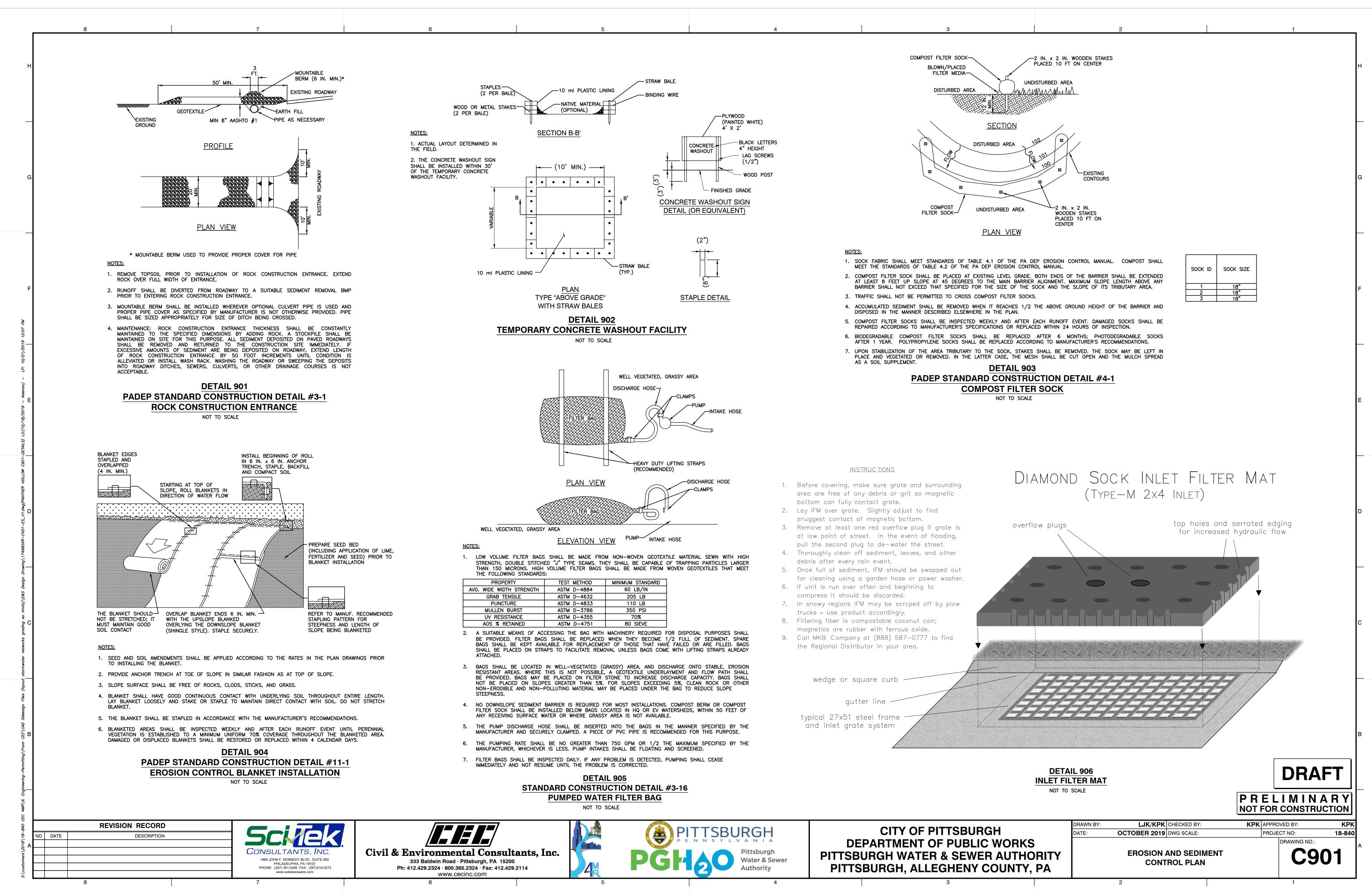
1. TOP BARS ARE DEFINED AS HORIZONTAL BARS (AND BARS INCLINED LESS THAN 45 DEGREES TO THE HORIZONTAL) SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER DIRECTLY BELOW THE BARS.

2. VALUES IN TABLE 1 ARE FOR UNCOATED REINFORCEMENT.

3. FOR CLASS A SPLICES, USE THE EMBEDMENT LENGTH.







SOCK ID	SOCK SIZE		
1	18"		
2	18"		
3	18"		

	8 7	6
	GENERAL EROSION CONTROL NOTES	TEMPORARY CONTROL MEASURES
н	1. THE LOCATION OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHOWN ARE APPROXIMATE AND THOSE SHOWN ARE NOT NECESSARILY ALL THE EXISTING UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.	THE E&S CONTROL FACILITIES PROPOSED FOR THE PROPOSED PANTHER HOLLOW CONTROL MEASURES SHOWN ON THIS PLAN ARE MINIMUM CONTROLS TO REDUCE SEDIMENT-LADEN RUNOFF. ADDITIONAL CONTROLS MAY BE REQUIRED DEPENDING
	2. THE CONTRACTOR SHALL CONTACT PENNSYLVANIA ONE CALL SYSTEM INC. AT (412) 242–1776 AND THE APPROPRIATE UTILITY COMPANIES AT LEAST THREE (3) DAYS PRIOR TO THE INITIATION OF EARTHMOVING AND DEMOLITION ACTIVITIES.	CONDITIONS ENCOUNTERED.
	3. 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 EROSION AND SEDIMENT CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE	ROCK CONSTRUCTION ENTRANCES WILL BE PROVIDED AT THE LOCATIONS SHO DETAIL.
	REVISIONS FROM THE ALLEGHENY COUNTY CONSERVATION DISTRICT (ACCD). THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.	INSTALLATION: TO CONSTRUCT THE PAD, PLACE A LAYER OF GEOTEXTILE AND OF THE VEHICLE INGRESS AND EGRESS AREA. THE STONE PAD SHOULD BE AT THICK. COMPLETE THE PLACEMENT OF STONE TO THE REQUIRED THICKNESS.
	4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL PREPARED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), BUREAU OF SOIL AND WATER CONSERVATION, LATEST EDITION. 5. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE ACCD, OWNER OR	2. SILT SOCK SILT SOCK SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS VARIOUS FILTER SOCK SIZES SHALL BE INSTALLED, AS INDICATED, AT THE LOC STANDARD DETAILS PROVIDED.
	TOWNSHIP IN THE EVENT ANY UNFORESEEN PROBLEMS ARISE DURING CONSTRUCTION. 6. THE CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY SOIL DISTURBANCE, OR IN THEIR	INSTALLATION: 1. SILT SOCK SHALL BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR
G	PROPER SEQUENCE AND MAINTAIN THEM UNTIL PERMANENT STABILIZATION IS ESTABLISHED. 7. THE AGGREGATE BASE COURSE SHALL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE PARKING AREAS.	 STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SILT SOCK ON 3-FOOT WOODEN STAKES. STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12-INCH, AND LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE SIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.
	8. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES TO BE REMOVED, RELOCATED AND/OR RAZED ARE DISCONNECTED PRIOR TO INITIATING EARTHMOVING ACTIVITIES.	MAINTENANCE: 1. SILT SOCKS SHOULD BE REGULARLY INSPECTED TO MAKE SURE THEY HOLD
	9. THE CONTRACTOR SHALL LANDSCAPE OR VEGETATE DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 4 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, STRAW MULCH SHALL BE APPLIED AT A RATE OF THREE (3) TONS PER ACRE OVERTOP EXPOSED AREAS.	 IF PONDING BECOMES EXCESSIVE, AND SEDIMENT REACHES THE TOP OF THE THE AREAS WITHOUT DISTURBANCE OF SOIL OR COLLECTED SEDIMENT. WHEN CONSTRUCTION IS COMPLETED ON SITE, THE SILT SOCKS MAY BE DISPERING
	10. CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF AT AN APPROVED WASTE SITE. BURNING SHALL NOT BE PERMITTED. 11. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED BY THE CONTRACTOR TO MAKE IT SUITABLE TO SUPPORT VEGETATIVE GROUND COVER.	BE INCORPORATED IN THE SOLL OF LEFT ON TOP OF THE SOLL FOR FINAL COLLECTED AND DISPOSED OF IN A NORMAL TRASH CONTAINER OR REMOVED PHOTODEGRADABLE PRODUCTS ARE USED, THEY MAY BE LEFT ONSITE AT THE DI 3. TEMPORARY VEGETATIVE STABILIZATION
	12. THE CONTRACTOR SHALL VEGETATE ALL EXPOSED AREAS THAT WILL NOT BE LANDSCAPED WITHIN FOUR (4) DAYS AFTER FINAL GRADING. 13. THE CONTRACTOR SHALL CONTROL DUST WITH WATER OR OTHER METHODS APPROVED BY THE LOCAL SOIL CONSERVATION DISTRICT AND THE OWNER.	IINSTALLATION: FERTILIZING, SEEDING, AND MULCHING WILL BE USED AS A TEMP AREAS. EXPOSED SOILS NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL NOT F DAYS, INCLUDING STOCKPILED SOIL MATERIALS. WITH REGARD TO THE TEMPORAF ON THE E&S CONTROL PLAN DETAIL SHEET.
F	14. THE CONTRACTOR SHALL INSTALL COMPOST FILTER SOCKS ALONG THE PERIMETER OF ALL SOIL STOCKPILES. 15. THE CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKETS OVERTOP OF 3:1 (HORIZONTAL: VERTICAL) OR STEEPER SLOPES. EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN S150BN OR APPROVED EQUAL.	WHERE SLOPES PERMIT, PROMPTLY DISK ALL AMENDMENTS UNDER A 3– TO 6– SLOPE WITH A DOZER AS DESCRIBED UNDER SEEDBED PREPARATION. ON EXTRI SEED AND MULCH USING A HYDROSEEDER AS LONG AS SEED AND INOCULANT IS HOUR.
	16. THE CONTRACTOR SHALL SUBMIT A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN TO THE OWNER PRIOR TO CONSTRUCTION IF CHEMICALS, SOLVENTS OR OTHER HAZARDOUS WASTES OR MATERIALS WITH THE POTENTIAL TO CAUSE ACCIDENTAL POLLUTION DURING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES ARE STORED OR USED ON SITE. THE PPC PLAN SHALL BE PREPARED IN ACCORDANCE WITH "GUIDELINES FOR THE DEVELOPMENT AND IMPLEMENTATION OF PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLANS", PREPARED BY	PREPARE SEEDBED BY CULTIPACKING OR TRACKING WITH A DOZER USING EQUIPI MINIMIZE RUTTING OF THE SURFACE. IF TRACKING IS DONE, RUN DOZER SO TR SEEDER IS USED, THIS STEP MAY BE SKIPPED.
	PADEP BUREAU OF SOLID WASTE MANAGEMENT AND PADEP BUREAU OF WATER QUALITY MANAGEMENT. 17. THE CONTRACTOR SHALL CONSTRUCT A BERM AROUND AREAS WHERE HYDRAULIC FLUID AND DIESEL FUEL WILL BE STORED DURING CONSTRUCTION TO SERVE AS A CONTAINMENT AREA FOR THE CONTROL OF POSSIBLE SPILLS. ANY SPILL WITHIN THE CONTAINMENT AREA SHALL	JUST BEFORE SEEDING, INOCULATE BIRDSFOOT TREFOIL SEED (WHERE APPLICABL TREFOIL USING AT LEAST FIVE TIMES THE MANUFACTURER'S MINIMUM INOCULANT SEED MIXTURE.
	BE IMMEDIATELY CLEANED. TELEPHONE NUMBERS OF EMERGENCY RESPONSE TEAMS ARE TO BE KEPT ON SITE, AND THEY ARE TO BE NOTIFIED IN THE CASE OF A SPILL. 18. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.	LIGHTLY CULTIPACK TO PRESS SEED INTO SEEDBED USING EQUIPMENT (SUCH AS OF THE SURFACE. IF A BRILLION SEEDER IS USED, THIS STEP MAY BE CONSID PREPARATION AND PLACEMENT, USE HYDROSEEDING TECHNIQUES.
	19. THE CONTRACTOR SHALL PROVIDE THE LOCATION AND ANY APPLICABLE PERMIT NUMBERS OF ALL THE OFF SITE DISPOSAL AND BORROW SITES THAT WILL BE UTILIZED DURING CONSTRUCTION TO THE ACCD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ALSO IDENTIFY THE EROSION AND SEDIMENTATION CONTROL MEASURES, WHICH WILL BE IMPLEMENTED AT THE DISPOSAL AND/OR BORROW SITES. IF THE DISPOSAL AND/OR BORROW SITES ARE UNPERMITTED, AN EROSION AND SEDIMENTATION PLAN MUST BE APPROVED BY THE ACCD PRIOR TO THEIR USE.	PROMPTLY AND EVENLY APPLY STRAW (NOT HAY) MULCH AT A RATE OF 3 TONS CELLULOSE FIBER (NOT PAPER PULP) HYDROMULCH AT A RATE OF 3,000 POUN OF THE FOLLOWING METHODS: 1) APPLY "HYDRORAM" (LINEAR POLYACRILAMIDE F
Е	20. RUNOFF DRAINS INTO DOWNSTREAM TO JUNCTION HOLLOW.	(WWW.WATERSORB.COM OR 501-623-9995) WITH WATER OVER STRAW AT A RATE PER ACRE APPLICATION OF WOOD CELLULOSE FIBER MULCH WITH A HYDROSEED SPECIALLY DESIGNED HEAVY DISK WITH NO OFFSET TO THE DIRECTION OF TRAVE
	21. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ONSITE AT ALL TIMES AND MADE AVAILABLE TO THE ACCD UPON REQUEST.	TO SECURE THE STRAW. 4. INLET PROTECTION
	22. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED.	INLET PROTECTION FILTERS CONSISTING OF INLET FILTER BAGS OR STONE AND THEY ARE INSTALLED TO FILTER SEDIMENT-LADEN WATER PRIOR TO ENTERING TH
	23. WHERE BMPS ARE FOUND TO FAIL TO ALLEVIATE EROSION OR SEDIMENT POLLUTION, THE PERMITTEE OR CO-PERMITTEE SHALL INCLUDE THE FOLLOWING INFORMATION: A. THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS.	INSTALLATION: THE INLET PROTECTION FILTERS SHALL BE INSTALLED IN THE LO MANUFACTURER'S RECOMMENDATIONS.
	 B. ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE. C. THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE. 	5. TOPSOIL STOCKPILE AREA INSTALLATION: THERE WILL BE A DESIGNATED TOPSOIL STOCKPILE AREA LOCATE THE E&S SITE PLANS AND ALL TOPSOIL AND EXCESS CUT MATERIAL FROM TH
	24. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY.	SURROUNDED WITH A MINIMUM 18" SILT SOCK TO PREVENT SEDIMENT-LADEN RU
D	25. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL NOTES RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.	THE NORTH AMERICAN GREEN S150BN EROSION CONTROL BLANKET, OR AN AF STEEPER.
	26. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE ACCD, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF LOCATION.	INSTALLATION: INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION
	27. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES	7. CONSTRUCTION WASTE RECYCLING/DISPOSAL CONSTRUCTION WASTES ARE REFUSE MATERIALS GENERATED DURING THE COUR PAPER, PLASTIC, WOOD, FOOD, TEXTILE, AND METAL PRODUCTS.
	CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTRIBUTED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT	INSTALLATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WAS CONTROL PLANS ONCE THEY HAVE BEEN DETERMINED. THE CONTRACT
	VEGETATIVE STABILIZATION SPECIFICATIONS. 28. THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL RESIDES WITH THE OPERATOR.	RECYCLING/DISPOSAL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION MAINTENANCE: ALL CONSTRUCTION WASTE SHALL BE REMOVED BY THE CONTRAC
	29. PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTIONS, TITLE 25, CHAPTER 102.4 #5 SECTION XI.	IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS
С	30. A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL BE PRESENT ON THE PROJECT SITE DURING THE CONSTRUCTION OF ALL BMP's. <u>CLEAN FILL IS DEFINED AS</u> : 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 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. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.	
в	ENVIRONMENTAL DUE DILIGENCE: 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 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 CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".	
	ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.	
	REVISION RECORD	
A	REVISION RECORD IO DATE DESCRIPTION	
F	1880 JOHN F. KENNEDY BLVD., SUITE 600 PHILADELPHIA, PA 19103	il & Environmental Consultants, Inc. 333 Baldwin Road · Pittsburgh, PA 15205
┢	PHONE: (267) 341-5385 FAX: (267)519-0273 www.scitekanswers.com	Ph: 412.429.2324 · 800.365.2324 · Fax: 412.429.2114 www.cecinc.com

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ttsburah Water & Sewer

Authority

OR THE PROPOSED PANTHER HOLLOW LAKE PROJECT ARE SHOWN ON THE E&S CONTROL PLAN. I ARE MINIMUM CONTROLS TO REDUCE THE POTENTIAL FOR OFFSITE AREAS TO RECEIVE ITROLS MAY BE REQUIRED DEPENDING ON THE PROGRESS OF CONSTRUCTION AND VARYING

PROVIDED AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE STANDARD

PLACE A LAYER OF GEOTEXTILE AND AN INITIAL 2 TO 3 INCHES OF STONE ACROSS THE FULL WIDTH THE STONE PAD SHOULD BE AT LEAST 50 FEET IN LENGTH, 20 FEET IN WIDTH, AND 8 INCHES NE TO THE REQUIRED THICKNESS.

: LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED. NSTALLED, AS INDICATED, AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE

LEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA, PERPENDICULAR TO SHEET FLOW. THE MIDDLE OF THE SILT SOCK ON 10 FT. CENTERS, USING 2-INCH BY 2-INCH BY OAM SOILS SHALL BE 12-INCH, AND 8-INCH FOR CLAY SOILS. ALONG THE UPSLOPE SIDE OF THE SILT SOCK, FILLING THE SEAM BETWEEN THE SOIL

SPECTED TO MAKE SURE THEY HOLD THEIR SHAPE AND ARE PRODUCING ADEQUATE FLOW THROUGH. SEDIMENT REACHES THE TOP OF THE FILTER SOCK, ADDITIONAL FILTER SOCKS SHOULD BE ADDED IN SOIL OR COLLECTED SEDIMENT.

SITE, THE SILT SOCKS MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR OTHER DEVICE TO ON TOP OF THE SOIL FOR FINAL SEEDING TO OCCUR. THE MESH NETTING MATERIAL SHALL BE MAL TRASH CONTAINER OR REMOVED BY THE CONTRACTOR. IN CASES WHERE BIODEGRADABLE OR HEY MAY BE LEFT ONSITE AT THE DIRECTION OF THE OWNER.

MULCHING WILL BE USED AS A TEMPORARY E&S CONTROL MEASURE ON ALL NON-PAVED DISTURBED CONSTRUCTION TRAFFIC SHALL NOT REMAIN UNSEEDED OR COVERED BY MULCH FOR MORE THAN 4 LS. WITH REGARD TO THE TEMPORARY SEED MIX, REFER TO THE SEEDING MIXTURE TABLE PROVIDED

L AMENDMENTS UNDER A 3- TO 6-INCH DEPTH. WHERE SLOPES DO NOT PERMIT TILLAGE, TRACK

ER SEEDBED PREPARATION. ON EXTREMELY STEEP SLOPES, AMENDMENTS MAY BE APPLIED WITH THE AS LONG AS SEED AND INOCULANT IS NOT IN A SLURRY WITH FERTILIZERS FOR MORE THAN ONE RACKING WITH A DOZER USING EQUIPMENT (SUCH AS A LIGHT TRACTOR) AND TECHNIQUES THAT

ACKING IS DONE, RUN DOZER SO TRACK MARKS ARE PARALLEL TO SITE CONTOURS. IF A BRILLION PED.

DOT TREFOIL SEED (WHERE APPLICABLE) WITH LEGUME INOCULANT APPROPRIATE FOR BIRDSFOOT MANUFACTURER'S MINIMUM INOCULANT APPLICATION RATES, THEN EVENLY APPLY THE APPROPRIATE

SEEDBED USING EQUIPMENT (SUCH AS A LIGHT TRACTOR) AND TECHNIQUE THAT MINIMIZES RUTTING IS USED, THIS STEP MAY BE CONSIDERED COMPLETE. IF SLOPES ARE TOO STEEP TO PERMIT SEED SEEDING TECHNIQUES.

HAY) MULCH AT A RATE OF 3 TONS PER ACRE USING A BALE-BUSTER OR USING WOOD ROMULCH AT A RATE OF 3,000 POUNDS PER ACRE. PROMPTLY TACK STRAW INTO PLACE USING ONE HYDRORAM" (LINEAR POLYACRILAMIDE POLYMER) DISTRIBUTED BY POLYMERS, INC. WITH WATER OVER STRAW AT A RATE OF 8 POUNDS PER ACRE; 2) APPLY 800 TO 1,000 POUNDS SE FIBER MULCH WITH A HYDROSEEDER OVER THE STRAW; OR 3) USE A CRIMPER DISK (A OFFSET TO THE DIRECTION OF TRAVEL). MAKE MULTIPLE PASSES WITH THE CRIMPER AS NECESSARY

INLET FILTER BAGS OR STONE AND GRAVEL WILL BE PROVIDED AT ALL STORM SEWER INLETS AS LADEN WATER PRIOR TO ENTERING THE STORM SEWER SYSTEM. TERS SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE

ED TOPSOIL STOCKPILE AREA LOCATED ON THE PROPERTY. THE LOCATION SHALL BE AS SHOWN ON ND EXCESS CUT MATERIAL FROM THE SITE SHALL BE STOCKPILED THERE. THE STOCKPILE WILL BE DCK TO PREVENT SEDIMENT-LADEN RUNOFF.

OSION CONTROL BLANKET, OR AN APPROVED EQUAL, SHALL BE INSTALLED ON ALL SLOPES 3:1 OR

H MANUFACTURER'S RECOMMENDATIONS.

RIALS GENERATED DURING THE COURSE OF CONSTRUCTION AND INCLUDE, BUT ARE NOT LIMITED TO, D METAL PRODUCTS.

E RESPONSIBLE FOR IDENTIFYING WASTE RECYCLING/DISPOSAL AREAS ON THE EROSION AND SEDIMENT BEEN DETERMINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL WASTE HE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF AT A STATE APPROVED WASTE SITE AND TE CODES AND PERMIT REQUIREMENTS. THE BURNING OF WASTE MATERIALS SHALL NOT BE PERMITTED.

TEMPORARY CONTROL MEASURES

10. SILT FILTER BAG

FILTER BAGS MAY BE USED, IF NECESSARY, TO PREVENT SEDIMENT LADEN WATER THAT MAY BE PUMPED FROM TRENCHES FROM DISCHARGING INTO WETLANDS AND STREAMS OR OFFSITE. THEY SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL AND SHALL TRAP PARTICLES LARGER THAN 150 MICRONS. PUMPING RATES SHALL NOT EXCEED ONE-HALF MANUFACTURER'S SPECIFICATIONS, OR 750 SPM, WHICHEVER IS LESS. THE FOLLOWING INSTRUCTIONS SHALL SPECIFY CONDITIONS FOR ITS USE.

INSTALLATION 1. INSTALL BAGS ON A WELL-VEGETATED, EROSION-RESISTANT AREA.

2. BAGS SHALL NOT BE PLACED ON A SLOPE GREATER THAN 5%.

3. BAGS MUST BE PLACED ON A DRY AREA, AWAY FROM STREAMS AND WETLANDS. 4. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

MAINTENANCE:

1. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE UNTIL THE PROBLEM IS CORRECTED. 2. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME HALF FULL.

- 3. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. 4. SPARE BAGS SHALL BE KEPT AVAILABLE ONSITE.
- 5. ALL CLEAN OUT MATERIAL SHALL BE DISCARDED IN AN UPLAND AREA, REMOTE OF ANY STREAM OR WETLAND, WITHIN THE CONSTRUCTION RIGHT-OF-WAY. ALL AREAS WILL BE STABILIZED.

11. CONCRETE WASHOUT

CONCRETE WASHOUTS SHALL BE CONSTRUCTED ONSITE TO CONTAIN ALL WASHOUT WATER FROM CONCRETE CONSTRUCTION ACTIVITIES. WASHOUTS SHALL BE CLEARLY MARKED.

INSTALLATION: WASHOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED.

MAINTENANCE: WASHOUTS SHALL BE CLEANED OUT WHEN ACCUMULATED MATERIALS TAKE UP TWO-THIRDS OF THE AVAILABLE STORAGE CAPACITY. MATERIALS SHALL BE DISPOSED OF IN A PADEP-APPROVED FACILITY. MAKE ANY REPAIRS TO THE CONTACT AND MATERIALS SHALL BE DISPOSED OF IN A PADEP-APPROVED FACILITY. CONTAINMENT FACILITY AS NEEDED.

12. TRENCH PLUGS

TRENCH PLUGS SHALL BE INSTALLED AS NEEDED DURING ALL TRENCHING ACTIVITIES, IN ACCORDANCE WITH THE STANDARD DETAILS. NSTALLATION

1. PIPELINES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOINT ASSEMBLED IN THE TRENCH REQUIRE AN OPEN TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BEING INSTALLED.

2. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME SHOULD NOT BE GREATER THAN THE TOTAL LENGTH OF PIPELINE/UTILITY LINE THAT CAN BE PLACED IN THE TRENCH AND BACKFILLED IN ONE WORKING DAY.

- 3. NO MORE THAN 50 FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPELINE/UTILITY LINE INSTALLATION CEASED AT THE END OF THE WORKDAY.
- 4. TRENCH PLUGS ARE REQUIRED AT ALL WATER-BODY CROSSINGS REGARDLESS OF TRENCH SLOPE. 5. TOPSOIL MAY NOT BE USED TO FILL SACKS.

13. OUTLET PROTECTION

INSTALLATION: OUTLET PROTECTION WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH STANDARD DETAIL TO PREVENT SCOUR FROM EXCESSIVE VELOCITIES.

MAINTENANCE: ADDITIONAL STONE MAY HAVE TO BE ADDED PERIODICALLY TO MAINTAIN THE PROPER FUNCTIONING OF THE APRON.

STANDARD E&S WORKSHEET # 21 Temporary and Permanent Vegetative Stabilization Specifications

PROJECT NAME: Four Mile Run - Panther Hollow Lake City of Pittsburgh, Allegheny County, PA LOCATION: PREPARED BY: DATE: LJK DATE: CHECKED BY: KPK SPECIFICATIONS: The Department recommends the use of the Penn State publication, "Erosion Control and Conservation Plantings on Noncropland," as the standard to use for the selection of species, seed specifications, mixtures, liming and fertilizing, time of seeding, and seeding methods. Specifications for these items may also be obtained from PennDOT's Publication # 408, Section 804 or by contacting the applicable county conservation district. Upon selection of a reference, that reference should be used to provide all specifications for seeding, mulching, and soil amendments. The following specification will be used for this project:

(TEMPORARY)

*SPECIES:	ANNUAL RY
% PURE LIVE SEED:	98%
APPLICATION RATE:	100
FERTILIZER TYPE:	10-20-20
FERTILIZER APPL. RATE:	680
LIMING RATE:	6.0
MULCH TYPE:	STRAW
MULCHING RATE:	3.0
SOIL PLACEMENT DEPTH:	
*0050150	200/ DEDENIAL

(PERMANENT) TOPSOIL PLACEN 98% % PURE LIVE SEED: APPLICATION RATE 200

FERTILIZER TYPE: 10-20-20 FERTILIZER APPL. RATE: 680 LIMING RATE: <u>6.0</u> MULCHING RATE: ANCHOR MATERIAL: N/A ANCHORING METHOD: N/A RATE OF ANCHOR MATERIAL APPL.: N/A

(PERMANENT - STEEP SLOPE)

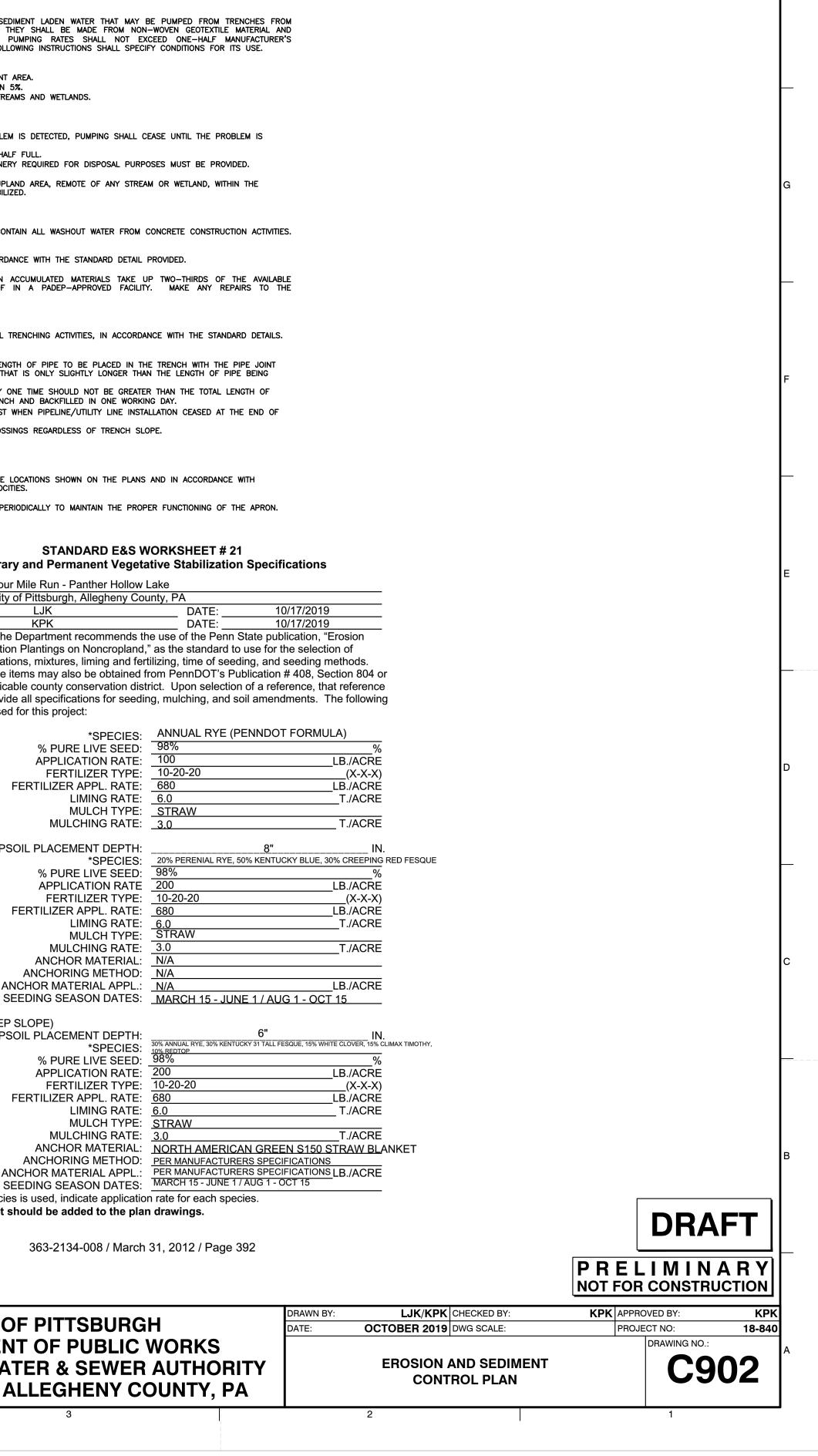
TOPSOIL PLACEMENT DEPTH: *SPECIES: <u>10% REDTOP</u> % PURE LIVE SEED: APPLICATION RATE: FERTILIZER TYPE: 10-20-20 FERTILIZER APPL. RATE: LIMING RATE: 6.0 MULCH TYPE: STRAW MULCHING RATE: 3.0

ANCHORING METHOD: <u>PER MANUFACTURERS SPECIFICATIONS</u> RATE OF ANCHOR MATERIAL APPL .: PER MANUFACTURERS SPECIFICATIONS LB./ACRE SEEDING SEASON DATES: MARCH 15 - JUNE 17 AUG 1 - OCT 15 *If more than one species is used, indicate application rate for each species. Note: This worksheet should be added to the plan drawings.

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CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORKS PITTSBURGH WATER & SEWER AUTHORITY PITTSBURGH, ALLEGHENY COUNTY, PA





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			JSED AS A	A TEMPORARY/PERMANENT E&S CONTROL			MAINTENANCE PROGRAM		
N N V	IEASURE ON ALL NON-PAVED DISTURBED IOT REMAIN UNSEEDED OR UNCOVERED E VITH REGARD TO THE TEMPORARY/PERMA INLESS THE OWNER'S REPRESENTATIVE D	AREAS. EXPOSED SO BY MULCH FOR MORE NENT SEED MIXES, REI	DILS, NOT S THAN 4 DAY FER TO THE	UBJECT TO (S, INCLUDII SEEDING N	ECT TO CONSTRUCTION TRAFFIC, SHALL INCLUDING STOCKPILED SOIL MATERIALS. EDING MIXTURE TABLES PROVIDED.		Sturbed tribut/ Niform 70% Per	DLS SHALL BE M ARY AREAS ARE ENNIAL VEGETATIVI FOR MAINTENANCE	STABILIZED. E COVER IS
P S	SOIL PLACEMENT: SOIL SHALL BE PLACED PLACE IN A MANNER THAT WILL NOT CAU SOIL SHALL BE COMPACTED TO A DRY DE TO ZERO PERCENT COARSE FRAGMENT (P	SE EXCESSIVE COMPAC ENSITY BETWEEN 75 AN	TION. IF S	OIL DENSITY JNDS PER (IS VERIFIED IN TH CUBIC FOOT, AFTER	HE FIELD, CORRECTION	DAY AND AFTE REPAIRED OR F	Y RUNOFF E&S (R EACH RUNOFF REPLACED BY THE	EVENT TO END OF TH
2. S	SOIL TESTING AND SOIL AMENDMENT (LIMI RECOMMENDATIONS FROM THE STATE AGR	E AND FERTILIZER) RAT	res: Unless	S SOIL TEST	RESULTS AND		AND/OR ACCES	JCTION ENTRANCE S ROADS AS NEE CCUMULATED SED	DED TO MA
A E E 1	NALYTICAL SERVICES LABORATORY [814– VENLY APPLY: 1) AGRICULTURAL GRADE QUIVALENT BASIS); 2) FERTILIZERS TO S 0–20–20 FERTILIZER AT A RATE OF 100 DISTRIBUTED BY PLANT HEALTH CARE, IN	863–0841] OR EQUIVA GROUND LIMESTONE AT UPPLY 100–200–200 DO POUNDS PER ACRE	ALENT SOIL T A RATE OI POUNDS PE); AND, 3)	TESTING LA F 6 TONS F R ACRE N- "BIOPAK" M	BORATORY) INDICATI PER ACRE (CALCIUM -P205-K20 (EXAM ICROBIAL SOIL INOC	E OTHERWISE, 1 CARBONATE 1PLE: CULANT	HAVE REACHED REPAIRED, OR DISTURBED ARE	HALF THE ABOVE REPLACED IF E TA HAS BEEN PER	E-ground Beyond Re Manently S
N N A	PASTEURIZED PELLETIZED POULTRY MANUF I-P205-K20) IS USED, IT WILL BE ASSU I-P205-K20 AVAILABLE IN THE FIRST YE AS MANUFACTURED BY PERDUE AGRIRECY 502-628-2360).	JMED THAT ONE TON A AR. A PRE-APPROVE	MANURE WILL D SOURCE (L SUBSTITUT OF PASTEUR	TE FOR 60-40-60 RIZED PPM IS "MICI	POUNDS RO-START60"	FILTER BAGS SI AND STABILIZED	G IS HALF FULL HALL BE REPLACE). N/TRAP: INSPECT	D. THE AC
3. S U 4	SOL AMENDMENT INCORPORATION: PROMP JSING A DISK, HARROW, PLOW, ROTOTILLE H TONS PER ACRE OR SLOPES ARE TOO A HYDROMULCH SLURRY OR CAN BE TRA	R OR OTHER SUITABLE STEEP TO PERMIT SAF	E EQUIPMEN FE TILLAGE,	T. IF LIME THE SOIL A	REQUIREMENTS AR MENDMENTS CAN E	E LESS THAN E MIXED INTO	EVENT. REPAIF WHEN THE SI ACCUMULATED	R'CLOGGED OR DA EDIMENT STORAGI SEDIMENT EVENLY HALL BE CHECKED	AMAGED SPI E (SD) EL ACROSS TH
4. T II	VITH A DOZER, TRACK IN A MANNER THA "EMPORARY SEEDING THAT WILL NOT BE NTERIM GRADING PATTERNS, DO NOT REQ NOCULANT.	T LEAVES CLEAT MARK	S PARALLEL	TO SITE C G, SUCH AS	ONTOURS. 5 TOPSOIL STOCKPI	7. LES OR AK"	ALL DISCHARG ADDITIONAL COI	E LOCATIONS SI NTROL MEASURES RUCTION, SEDIMEI	HALL BE I SHALL BE
5. S M	SEEDBED PREPARATION: JUST BEFORE SE METHOD AS NECESSARY TO BREAK UP SC "HAT LEAVES CLEAT MARKS PARALLEL TO	DIL CRUSTS. IF TRACK				PROPRIATE A MANNER	SPREADING IT TEMPORARY E& APPROVED FAC	ONSITE. ONCE &S CONTROLS AR	E A UNIFO RE REMOVEI
S IN R T F	EEDING: EVENLY APPLY THE TEMPORARY, EEDING METHODS THAT PLANT SEED LES NOCULANTS SPECIFICALLY MADE FOR THE ECOMMENDED RATE. USE NO SEED OR HAN 9 MONTHS FROM THE SEED TEST D ERTILIZERS, AND POLYMER TACKIFIER/SO THAT SEED AND INOCULANTS ARE NOT HE	S THAN ¼-INCH BELO LEGUME SEED TYPE I INOCULANT THAT HAS DATE. IF HYDROSEEDIN IL STABILIZER (BELOW)	W THE GRO BEING APPLI BEEN IMPRONG METHODS MAY BE AF	UND SURFA ED AT FIVE OPERLY STO ARE USED PPLIED IN O	CE: APPLY LEGUM TIMES THE MANUF DRED, EXPIRED, OR SEED, INOCULANT DNE APPLICATION, F	, OR DRILL IE SEED ACTURER'S 10 SEED OLDER 10 S, PROVIDED 1	IS THE RESPOI AND DUST-FRE D. SEEDED AND V AREAS SHALL E I. THE CONTRACT	NSIBILITY OF THE E CONDITION. /EGETATED AREAS BE FERTILIZED ANI OR IS RESPONSIE	CONTRACTO SHALL BE D RESEEDED BLE FOR AL
7. M M " M P	MULCHING AND TACKING: PROMPTLY AFTI VOOD EXCELSIOR EROSION CONTROL BLAI P-300" TURF REINFORCEMENT MAT; 3) S VOOD/CELLULOSE FIBER HYDROMULCH AFI VOOD/CELLULOSE FIBER HYDROMULCH MU POUNDS PER ACRE APPROVED PASTEURIZ	ER SEEDING, MULCH U NKET; 2) SYNTHETIC IN STRAW APPLIED AT A F PLIED WITH A HYDROS JST CONTAIN AT LEAST ED PPM IS BEING APP	SING EITHER IDUSTRIES " RATE OF 600 EEDER AT A 50% VIRGII PLIED WITH A	R: 1) "CURL TRM 450" (00 POUNDS A RATE OF N WOOD FIE	EX" OR EQUIVALEN DR NORTH AMERICA PER ACRE, OR 4) 3000 POUNDS PER BER. IF AT LEAST	T BRAND OF N GREEN ACRE. 1000		NS. INSPECTIONS AND KEPT ONSITE	
11	YDROMULCH RATES MAY BE REDUCED TO N SOME LOCATIONS SHOWN ON THE DRA BLANKET OR TURF REINFORCEMENT MAT (WINGS, SUCH AS SLOP	PES STEEPER						<u>BLE 11.1 T</u>
C (I	CONTROL BLANKETS/TRM PER MANUFACTU MINIMUM) SOD STAPLES IN ROWS AT THE	RER'S INSTRUCTIONS.	STAPLE BL	ANKET/TRM	IN PLACE USING	5-INCH		CUBIC YARDS OF	
т	ENTERS. ACK STRAW IN PLACE USING EITHER: 1)							1	
A W	HE STRAW AT A RATE OF 800–1000 PO CRYLATE/ACRYLAMIDE) COPOLYMER "POL' VITH WATER OVER THE STRAW. APPROVE	YMER" AT A RATE OF A	AT LEAST 8 NCLUDE "WA	POUNDS P	ER ACRE APPLIED PAM" OR "HYDROI	IN MIXTURE PAMTM",		2	
н	DISTRIBUTED BY POLYMERS, INC. (WWW.WA IEALTH CARE, INC. (WWW.PLANTHEALTHCAF CORPORATION (WWW.FINNCORP.COM OR 80	RE.COM OR 800-421-						3	
	ACK WOOD/CELLULOSE FIBER HYDROMUL			PECIFIED A	BOVE AT A RATE O	F AT LEAST 4		5	
8. C	OVER-SEEDING AND RE-SEEDING: WHEN SOWING OF THE PERMANENT SEED MIXTUR	THE SITE DEVELOPME	NT STAGING					6	
S	SEEDING, THEN SEED WITH TEMPORARY S NTO THE STUBBLE OF TEMPORARY VEGET	EED MIXTURE AND MUL	_CH, THEN (OVERSOW TH	IE PERENNIAL SEE			7	
Т	F PERENNIAL SEED IS BEING SOWN INTO EMPORARY VEGETATION TO REDUCE COMF							8	
M G	MAINTENANCE: WATER AS NECESSARY TO GRASS HEIGHT BETWEEN 4 AND 6 INCHES	S TALL FOR FIRST TWO	MONTHS O	F GROWTH	DURING THE ESTAE	BLISHMENT			
	YEAR, AND TO THE DESIRED HEIGHT THEF DAMAGE TO BARK OF TREES AND SHRUBS		RIMMERS AR	E USED, TA	KE MEASURES TO	AVOID			
		TABLE 4.1 COMP	OST FILTER	SOCK FAB	RIC MINIMUM SPECI	FICATION			
							HEAVY DUTY MULTI-FILAME	INT	
	MATERIAL TYPE MATERIAL CHARACTERISTICS	3 MIL HDPE PHOTO-DEGRADABLE		HDPE EGRADABLE	5 MIL HDPE BIO-DEGRADABLE	POLYPROPYLENE (MFPP) PHOTO-DEGRADABLE	POLYPROPYLE (HDMFPP) PHOTO-DEGRAD		ORGA
	SOCK DIAMETERS	12" 18'		8″	12" 18" 24"	12" 18" 24"	12" 18" 24"		c
	MESH OPENING	3/8"		4" 2" /8"	24" 32" 3/8"	24" 32" 3/8"	24" 32" 1/8"		
	TENSILE STENGTH		26	PSI	26 PSI	44 PSI	202 PSI		м
	ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	1000	AT HR.		100% AT 1000 HR.	100% AT 1000 HR.		SOLUBL
	MINIMUM FUNCTIONAL LONGGEVITY	6 MONTHS		ONTHS SYSTEMS	6 MONTHS	1 YEAR	2 YEARS		
						IDPE BIAXIAL NET			
	INNER CONTAINMENT NETTING					NTINUOUSLY WOUND	5		
						/4" MAX. APERTURE			
	OUTER FILTRATION MESH				(WOVEN LAYE MECHANICALL	E POLYPROPYLENE FA ER AND NON-WOVEN Y FUSED VIA NEEDLE MAX. APERTURE SIZE	FLEECE PUNCH)		
	SOCK FABRICS C	OMPOSED OF BURLAP	MAY BE US	ED ON PRO	JECTS LASTING 6 I	MONTHS OR LESS			
	REVISION RECORI	D							
NO DAT				50				ironment	
				Consu	LTANTS, INC		vil & Envi	ironment	al Con

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ALL BE INSPECTED AT LEAST AT THE BEGINNING AND END OF EACH AINTAIN THEIR EFFECTIVENESS. ANY DAMAGED CONTROLS SHALL BE WORKING DAY.

STONE SHALL BE ADDED TO THE ROCK CONSTRUCTION ENTRANCE NTAIN THEIR THICKNESS.

BE REMOVED, AS REQUIRED, IN ALL CASES WHERE ACCUMULATIONS EIGHT OF THE SOCK. IF THE SOCK HAS BEEN DAMAGED, IT SHALL BE AIR. THE FILTER MEDIA WILL BE DISPERSED ON SITE ONCE THE ABILIZED. ADHERE TO ALL MANUFACTURERS' RECOMMENDATIONS.

PROTECTION FILTER BAGS SHALL BE CLEANED AND/OR REPLACED NCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL DAMAGED CUMULATED SEDIMENT SHALL BE DISTRIBUTED EVENLY AMONG THE SITE

ENT BASINS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF WAYS IMMEDIATELY. THE ACCUMULATED SEDIMENT MUST BE REMOVED VATION WITHIN THE TRAP/BASIN IS ACHIEVED. DISTRIBUTE THE SITE AND STABILIZE.

OF EROSION AND/OR SEDIMENTATION.

SPECTED TO ASCERTAIN THE EFFECTIVENESS OF THE CONTROLS. MPLEMENTED AS NEEDED.

FROM THE EROSION CONTROL DEVICES SHALL BE DISPOSED OF BY RM 70% PERENNIAL VEGETATIVE COVER IS ESTABLISHED AND THE ALL ACCUMULATED SEDIMENT WILL BE DISPOSED OF AT A PADEP

BE INSPECTED FOR EVIDENCE OF OFF-SITE TRACKING OF MUD. IT TO CLEAN STREETS OF MUD AND KEEP THE STREETS IN A CLEAN

CHECKED REGULARLY TO INSURE THAT A GOOD STAND IS MAINTAINED. AS NECESSARY.

MAINTENANCE AND INSPECTIONS, AND SHALL MAINTAIN RECORDS OF LOGGED ON PADEP FORM 3150-FM-BWEW0083, DATED 2/2012 OR

PSOIL REPLACEMENT SPECIFICATIONS FOR ADDITION TO MADIOUS DEDTUS

REQUIRED FOR APPLICATION	TO VARIOUS DEPTHS
PER 1,000 SQUARE FEET	PER ACRE
3.1	134
6.2	268
9.3	403
12.4	537
15.5	672
18.6	806
21.7	940
24.8	1,074

TABLE 4.2 COMPOST FILTER SOCK STANDARDS

ANIC MATTER CONTENT	25%–100% (DRY WEIGHT BASIS)
DRGANIC PORTION	FIBROUS AND ELONGATED
рH	5.5–8.5
OISTURE CONTENT	30%-60%
PARTICLE SIZE	30%–50% PASS THROUGH 3/8" SIEVE
E SALT CONCENTRATION	5.0 dS/M (MMHOS/CM) MAXIMUM

SEQUENCE OF CONSTRUCTION

THE RENOVATION AND RE-CONSTRUCTION OF THE EXISTING PANTHER HOLLOW POND WILL CONSIST OF ONE GENERAL PHASE CONSTRUCTION. ALL E&S CONTROL FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED E&S CONTROL PLAT AND THE PADEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL DATED MARCH 2012.

A GENERALIZED CONSTRUCTION SEQUENCE IS PROVIDED BELOW. EACH CONSTRUCTION SEQUENCE IS INTENDED TO PROVIDE A GENERAL COURSE OF ACTION IN ORDER TO CONFORM TO THE APPLICABLE REGULATORY AGENCY REQUIREMENTS FOR TEMPORA AND PERMANENT SOIL EROSION AND SEDIMENT POLLUTION CONTROL. ALL NECESSARY PARTS FOR PROPER AND COMPLETE EXECUTION OF WORK PERTAINING TO THIS PLAN, WHETHER SPECIFICALLY MENTIONED OR NOT, ARE TO BE PERFORMED BY THE CONTRACTOR. IT IS NOT INTENDED THAT THE DRAWINGS AND THIS REPORT SHOW EVERY DETAILED PIECE OF MATERIAL OR EQUIPMENT. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED IN THIS SECTION. THE CONTRACTOR MAY BE REQUIRED TO ALTER CONTROLS BASED ON EFFECTIVENESS OF CONTROLS OR DIFFERING CONDITIONS ENCOUNTERED. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO MINIMIZE THE EXTENT AND DURATION OF EARTH DISTURBANCE ACTIVITY.

- 1. 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& PLAN PREPARER, THE PCSM PLAN PREPARER, AND A REPRESENTATIVE FROM THE ALLEGHENY COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- 2. UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.
- 3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM IN. SHALL BE NOTIFIED 1-800-242-1776 FOR THE LOCATION OF EXITI UNDERGROUND UTILITIES.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PRECEDE IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS, DEVIATION FROM THE SEQUENCE MUST BE APPROVED BY THE ALLEGHENY COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDI TO THE NEXT STEP, EXCEPT WHERE NOTED.
- 5. LAYOUT THE LIMITS OF THE CONSTRUCTION SITE AND ESTABLISH BENCHMARKS AND REFERENCE POINTS.
- 6. STAKE OUT THE LIMITS OF DISTURBANCE (6.1 ACRES) AS INDICATED ON THE CONSTRUCTION PLANS.
- 7. INSTALL THE ROCK CONSTRUCTION ENTRANCES (2) AS SHOWN ON THE PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL.
- 8. INSTALL ORANGE CONSTRUCTION FENCE AROUND AREAS OF PANTHER HOLLOW WHICH ARE NOT TO BE DISTURBED DURING CONSTRUCTION, AS SHOWN ON THE PLANS. ALSO CONSTRUCT ORANGE CONSTRUCTION FENCE AS SHOWN ON THE PLANS ACCORDANCE WITH THE STANDARD DETAIL.
- 9. INSTALL SILT SOCK, 1,2,3, IN THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE STANDARD DETAIL B CAREFUL NOT TO DISTURB THE EXISTING WOODLANDS THAT ARE OUTSIDE OF THE DELINEATED LIMITS OF DISTURBANCE. ALL COMPOST FILTER SOCK SHALL BE INSTALLED PARALLEL TO THE CONTOURS.
- 10. CLEARING, GRUBBING, AND EARTH WORK OPERATIONS WITHIN THE DRAINAGE AREAS TO THE PERIMETER CONTROLS MAY COMMENCE WHEN ALL PERIMETER CONTROLS ARE INSTALLED AND OPERATIONAL.
- 11. BEGIN CLEARING AND GRUBBING ACTIVITIES NEEDED TO RE-CONSTRUCT THE EXISTING PANTHER HOLLOW LAKE, TAKING CAF NOT TO WORK BEYOND THE PERMIT BOUNDARY SHOWN ON THE PLAN. PLACE STRIPPED TOPSOIL IN THE TOPSOIL STOCKPI AREAS DESIGNATED ON THE PLAN AND/OR REMOVE FROM SITE. STOCKPILE LOCATIONS MAY VARY IN THE FIELD, AND ADDITIONAL STOCKPILE LOCATIONS MAY BE USED AS NECESSARY. ALL TOPSOIL STOCKPILE AREAS SHALL BE FULLY ENCLOS WITH SILT SOCK AS PER THE STANDARD DETAIL. INSTALL THE CONCRETE WASHOUT FACILITY AS SHOWN ON THE PLANS AN ACCORDANCE WITH THE STANDARD DETAIL.
- 12. PERFORM CUT AND FILL OPERATIONS TO BRING THE PANTHER HOLLOW POND SITE TO THE PROPOSED FINAL SUBGRADE FLEVATIONS, UTILIZE ROCK FILL UNDERDRAINS, AS NECESSARY, TO CARRY THE IMPACTED EXISTING LAKE AND AN ENCOUNTERED GROUNDWATER THROUGH THE PROPOSED GRADING. STABILIZE STAGING AREA AS SOON AS FINAL SUBGRADE ELEVATIONS ARE REACHED. RE-GRADE TO DESIGN GRADES AND UTILIZE A PUMP AND FILTER BAG TO DEWATER THE LAKE DURING CONSTRUCTION.
- 13. CONSTRUCT PERMANENT BERM ON THE WESTERN SIDE OF PANTHER HOLLOW LAKE WITH APPROPRIATE SPILLWAY AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE STANDARD DETAIL.
- 14. BEGIN ROUGH GRADING ON SITE AND ALL FILL AREAS SHALL BE PLACED AND COMPACTED ACCORDING TO THE PROJECT EARTHWORK SPECIFICATIONS. CONSTRUCT FILL KEYS AND SUBSURFACE DRAINS AS SHOWN ON THE CONSTRUCTION DRAWING AND AS NECESSARY DURING EARTHWORK. PLACE TOPSOIL AND INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES 3H:1 OR GREATER IN ACCORDANCE WITH THE STANDARD DETAIL. AT THE END OF EACH WORKING DAY NO MORE THAN 10 FEET SOIL SHALL BE EXPOSED WITHOUT BLANKET ON ANY PERMANENT SLOPES STEEPER THAN OR EQUAL TO 3H:1V. IMMEDIATE STABILIZATION IS REQUIRED UPON TEMPORARY CESSATION OF WORK, 4 OR MORE DAYS, OR AS SOON AS GRADED AREA REACHES FINAL GRADE.
- 15. AS FILL SLOPES GRADES ARE ACHIEVED BACK-CUT SLOPES TO DIVERT THE RUNOFF TO THE BMP'S SHOWN ON THE PLAN
- 16. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN. IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED OR MULCHED.
- 17. FINE GRADE AND STABILIZE ALL AREAS OF THE SITE. ALL UNPAVED DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY WITH SEED AND MULCH ONCE GRADING IS COMPLETE OR WITHIN FOUR (4) DAYS ONCE THE CONSTRUCTION HAS BEEN COMPLETED. INSTALL THE APPROPRIATE EROSION CONTROL BLANKETS FOR ALL SLOPES STEEPER THAN 3:1.
- 18. FILL SLOPES SHOULD BE SEEDED AND MULCHED AT REGULAR VERTICAL INCREMENTS 15 TO 25 FEET MAXIMUM AS FILL IS BEING CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE SLOPE.
- 19. NOTIFY THE LICENSED PROFESSIONAL OR THEIR DESIGNEE AT LEAST 2 DAYS PRIOR TO THE START OF THE OF THE STORMWATER MANAGEMENT SYSTEM CONSTRUCTION. THE LICENSED PROFESSIONAL OR THEIR DESIGNEE MUST BE PRESENT DURING THE LAKE RE-CONSTRUCTION.

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CITY OF PITTSBURGH DEPARTMENT OF PUBLIC WORK **PITTSBURGH WATER & SEWER AUTH** PITTSBURGH, ALLEGHENY COUNTY

	RITY PA		DWG SCALE: AND SEDIMENT ROL PLAN	PROJE	CT NO: 18-6	340
 SOURIMERT MANGELINT FLAN FOR MORE AREA MUST BE TRATED FOR SEDMENT REMORE, PROF TO DESCHARGES TO SURFACE AND MUST BE AND THE OWNER THE BE AND THE WATER BEING PUMPED AND/P MEETS DESCHARGE AND REMOTE DESCHARGES FOR ADVIOLATION OF THE PERMANNIAL SECTION OF SUBMENT TWO IS SUMMANT TWO IS ANALALL, THE PUMP DESCHARGE AND REMOTE DESCHARGE AND		DRAWN BY:	CHECKED BY:	NOT FOR	CONSTRUCTION	1
STORMARER MANAGEMENT FLAN FOR NOTES AND GEDILS. NATER THAT IS BEIND PURCHED FROM MORE AGES. MUST BE TREATED FOR STEMENT REMOVAL PROR TO DISCHARGEMENT TO SUMPLY THAT REMOVE AUREON MEETS DISCHARGE STANDARDS, IF A PROPENT FUNCTIONNE SEXURATE DASIN ON SECURITY TWO IS ANALABLE, THE FUNCH DISCHARGE STRUMARDS, IF A PROPENT FUNCTIONNE SEXURATE DASIN OF SEXURATE OPEN AND SPECIAL MALE MALE MALE REMOVED TREMOVING TO RELEASE TO AND FUNCTION. SECURATE ON SESSION FOR MAILS MAD SPECIADINA MALEY MAD 20 ONCE A UNITION TON PEREINAL NEGATIVE COUCH IS ACIENCED ON ALL DISTURCED AREAS BEEN REMOVAL OF ALL REMOVED TREMOVING TO RELEASED. 20 ONCE A UNITION TON PEREINAL NEGATIVE COUCH IS ACIENCED ON ALL DISTURCED AREAS BEEN REMOVAL OF ALL REMOVED TREMOVING TO RELEASED. 21 OPSILL REPLACEMENT. SECURITIES ON THE REMOVED TO A DISTURBED AREA TO A DISTURBED AREAS TO PENNET TOPOLI INFON DURING TOOM THE SECURITY COUCHED TO A BETH OF 3 TO S. MICHES TO PENNET TOPOLI INFON DURING TOOM THE SECURITY COUCHED TO A BETH OF 3 TO S. MICHES TO PENNET TOPOLI INFOND TOOPER SECURITY COUCHE DISTON AND SECURITY TO THE TOWN THE TOOPER 21 OPSILL REPLACEMENT. SECURITY PENNET 23 SPECIAL ONE OF THAT SECURITY ACROSS THE DISTURBED AREA TO A DISTH OF 4 TO 3 INCHES 33 SPECIADIO SHULLO BE COUCH THAT SECURITY PENNET AREA TO A DISTH OF THE TO AND 34 DISTAND. 35 OPSILL SHELL AND REPLANSION OF DEPENDENT SHULL BE CORRECTED IN PORCH 35 OPSILL SHELL AND REPLANSION OF DEPENDENT ON UNDER, PACESMENT AREA TO TO THE PENNET TO PENNET TO THE PENNET AREA THE DISTANCE AREA TO A DISTH OF THE TO AND 35 OPSILL AND 35 OPSI				ſ	DRAFT	
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 STORMWATER MANAGEMENT PLAN FOR NOTES AND DETAILS. 1. WATER THAT IS BEING PUMPED FROM WORK AREAS MUST BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO SURFACE WATERS UNLESS IT CAN BE SHOWN THAT THE QUALITY OF THE WATER BEING PUMPED ALREADY MEETS DISCHARGE STANDARDS. IF A PROPERLY FUNCTIONING SEDIMENT BASIN OR SEDIMENT TRAP IS AVAILABLE, THE PUMP DISCHARGE MAY BE ROUTED THROUGH THE TRAP OR BASIN. 2. ONCE A UNIFORM 70% PERENNIAL VEGETATIVE COVER IS ACHIEVED ON ALL DISTURBED AREAS BEGIN REMOVAL OF ALL REMAINING TEMPORARY CONTROL MEASURES. REMOVE FILTREXX SOCKS BY SLASHING OPEN AND SPREADING MULCH AND SEEDING. REMOVAT CONTROL MEASURES. REMOVE FILTREXX SOCKS BY SLASHING OPEN AND SPREADING MULCH AND SEEDING. REMOVE THE REMAINDER OF TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES. DISPOSE OF ACCUMULATED SEDIMENT AT A PADEP-APPROVED FACILITY. TOPSOIL REPLACEMENT SPECIFICATIONS 1. 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 SUDING DOWN THE SLOP. 2. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 TO 8 INCHES MINIMUM, 2 INCHES ON FILL OUTSLOPES. 3. SPREADING SHOULD BE DONE THAT SODDING/SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. 4. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT TOPROVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE PCSM PLAN. 5. TOPSOIL SHALL NOT BE PLACED IF TOPSOIL OR SUBSOIL IS FROZEN OR MUDDY, EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. 6. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDBED PREPARATION. 						-
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