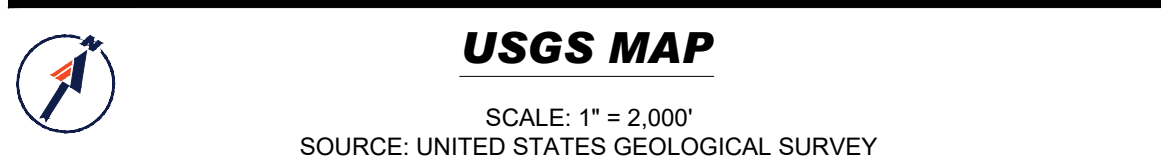


_____ FOR _____

SAXTON FALLS SAND & GRAVEL COMPANY, INC

BLOCK 800, LOT 40

**66 WATERLOO VALLEY ROAD
TOWNSHIP OF MOUNT OLIVE
MORRIS COUNTY, NEW JERSEY**



**Know what's below.
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NEW JERSEY
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WHETHER IT'S ON PRIVATE OR PUBLIC LAND.
1-800-272-1000
www.nj-1-call.org

SHEET TITLE	NUMBER
COVER SHEET	C-01
EXISTING CONDITIONS PLAN	C-02
OPERATION & INTERIM RESTORATION PLAN	C-03
OPERATION & INTERIM RESTORATION PLAN	C-04
FINAL RECLAMATION PLAN	C-05
FINAL RECLAMATION PLAN	C-06
CROSS SECTIONS SECTION A-A	C-07
CROSS SECTIONS SECTION B-B	C-08
CROSS SECTIONS SECTIONS C-C & D-D	C-09
SESC NOTES & DETAILS	C-10

PROJECT: **OPERATION,
RESTORATION &
RECLAMATION
PLANS**

FOR

**SAXTON FALLS SAND
& GRAVEL CO., INC.**

PROPOSED
DEVELOPMENT IMPROVEMENTS

BLK: 700 | LOTS: 2, 3, 4, 5 & 8
BLK: 701 | LOTS: 4 & 6
BLK: 800 | LOT: 40

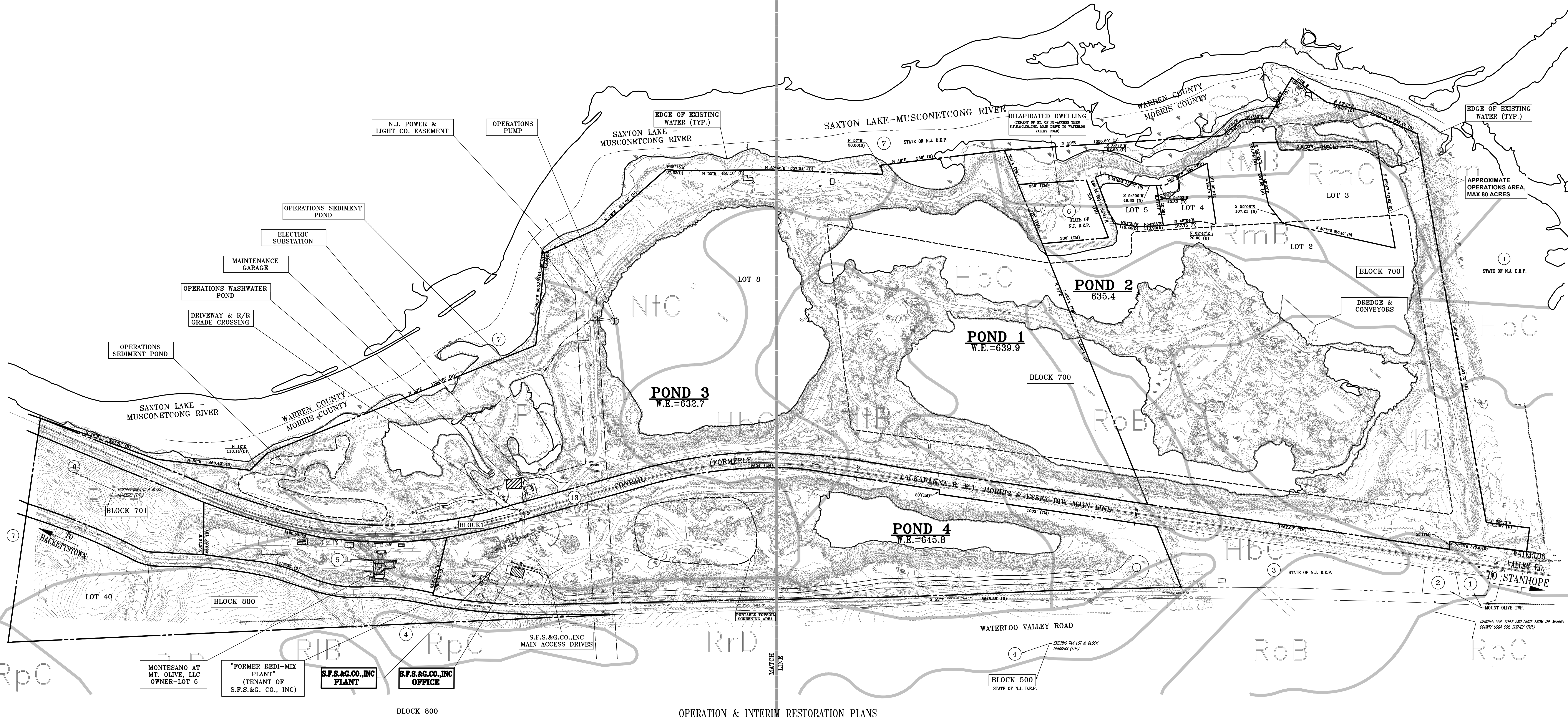
WATERLOO VALLEY ROAD
MT. OLIVE TOWNSHIP
MORRIS COUNTY, NEW JERSEY

MT. OLIVE TOWNSHIP PLANNING BOARD APPROVAL APPROVED BY THE PLANNING BOARD OF THE TOWNSHIP OF MT. OLIVE TOWNSHIP, NJ	
CHAIRMAN	DATE
SECRETARY	DATE
TOWNSHIP ENGINEER	DATE

I CERTIFY THAT I AM THE OWNER OF BLOCK 700 LOTS 3, 4, 5 & 8, BLOCK 701 LOTS 4 & 6 AND BLOCK 800, LOT 40 AND CONSENT TO THE FILING OF THE APPLICATION

SHEET TITLE:	
COVER SHEET	
SHEET NUMBER:	
C-01	
REVISION 3 - 04/23/2021	

BOHLER



NOTES:

1. S.F.S.&G.CO.,INC. PROPERTIES ARE LOCATED WITHIN THE M-MINING & RR-AA RESIDENTIAL/AGRICULTURAL DISTRICT ZONES AND SUBJECT TO THE M-MINING DISTRICT IN SECTION 550-103H OF THE TOWNSHIP'S LAND USE CODE

2. S.F.S.&G.CO.,INC. PROPERTIES - TAX MAP DATA

TAX MAP SHEET No.	TAX MAP BLOCK No.	TAX MAP LOT No.	AREA (ACRES)
7.01	700	2,3,4,5	78.5
7.02	700	8	102.0
7.02	701	4	40.0
7.03	701	6	6.2
8.03	800	40	15.0

TOTAL = 241.7 Ac. (TAX MAP)

3. THE PROPERTY BOUNDARIES AND RIGHT-OF-WAYS WERE TAKEN FROM A MAP ENTITLED: "RECLAMATION PLAN W/1998 AERIAL TOPO FOR SAXTON FALLS SAND AND GRAVEL CO., SITUATED IN MT. OLIVE TOWNSHIP, MORRIS COUNTY, NJ", SHEET 1 OF 6, DATED REVISED 3/12/01, PREPARED BY RICHARD H. SCHINDELAR & ASSOC., PA., FOR SAXTON FALLS SAND & GRAVEL COMPANY, INC.

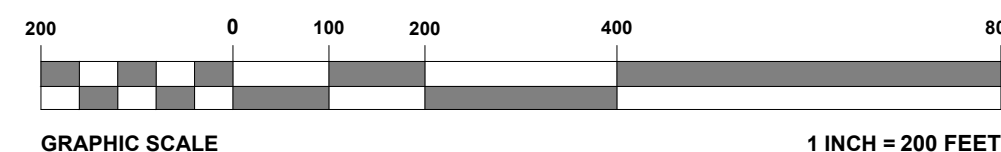
4. TOPOGRAPHY SHOWN HEREON IS AERIAL TOPOGRAPHY PREPARED & DIGITALLY SUPPLIED BY ROBINSON AERIAL SURVEYS INC., BASED ON AERIAL PHOTOGRAPHY DATED 03/10/2020. VERTICAL DATUM = NAVD29. HORIZONTAL DATUM = NAD27 NJ USF.

- LOT 40, BLOCK 800 SHALL NOT BE QUARRIED IN THE FUTURE.
- ANY OFF-SITE FILL MATERIAL USED DURING RESTORATION ACTIVITIES MUST BE IN ACCORDANCE WITH THE NJDEP RESIDENTIAL DIRECT CONTACT CLEAN SOIL STANDARD.
- AS PART OF THE SITE'S FINAL RECLAMATION, S.F.S.&G. CO. WILL REMOVE ALL EQUIPMENT, MACHINERY, AND IF NECESSARY, REMOVE OR LEAVE THE BUILDING DEPENDING ON WHETHER IT IS NEEDED FOR A FUTURE USE.

OPERATION & INTERIM RESTORATION PLANS
SHEET C-03 SHEET C-04
SHEET C-05 SHEET C-06
FINAL RECLAMATION PLAN

TOPOGRAPHY VERTICAL
DATUM = NAVD29

THIS PLAN TO BE UTILIZED FOR
EXIST. CONDITIONS ONLY



REV	DATE	COMMENT	DRAWN BY
1	12/31/2020	PER TOWNSHIP COMMENTS	CUJ
2	02/03/2021	REV. PER BOARD ENGINEER	JRH
3	04/23/2021	REV. PER MC SCD	JRH



PRELIMINARY

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT NO.: J201082
DRAWN BY: MFD
CHECKED BY: JAH
DATE: 08/05/2020
CAD I.D.: J201082-SPP-3A

**OPERATION,
RESTORATION &
RECLAMATION
PLANS
FOR**

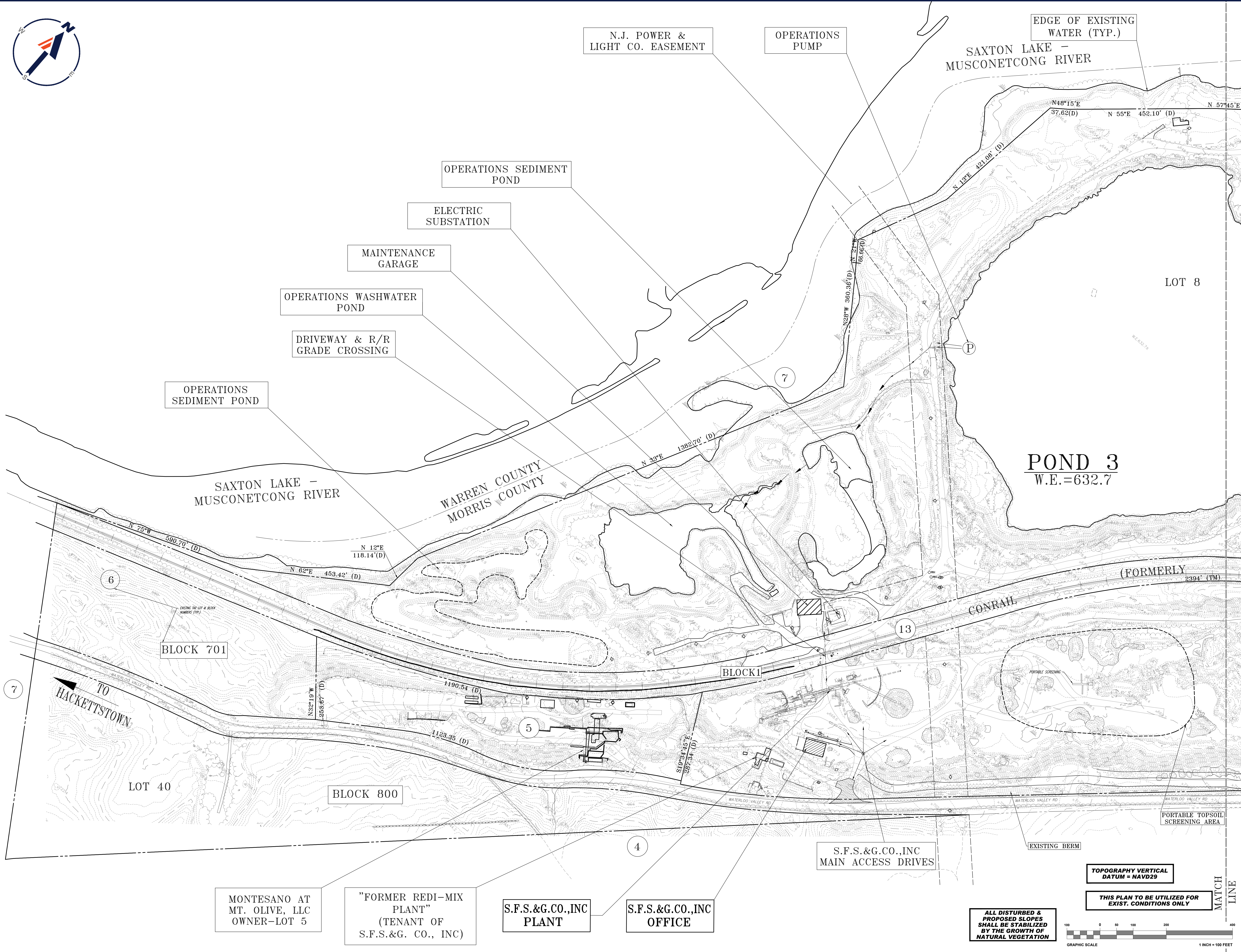
**SAXTON FALLS SAND
& GRAVEL CO., INC.**
PROPOSED
DEVELOPMENT IMPROVEMENTS
BLK: 700 | LOTS: 2, 3, 4, 5 & 8
BLK: 701 | LOTS: 4 & 6
BLK: 800 | LOT: 40
WATERLOO VALLEY ROAD
MT. OLIVE TOWNSHIP
MORRIS COUNTY, NEW JERSEY

J.R. HOUSTEN, Jr.
PROFESSIONAL ENGINEER
& LAND SURVEYOR
NEW JERSEY LICENSE NO. 25559

**EXISTING
CONDITIONS
PLAN**

SHEET NUMBER:
C-02

REVISION 3 - 04/23/2021



BOHLER

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LAND ACQUISITION
SUSTAINABLE DESIGN
PERMITTING SERVICES

NEW JERSEY
REGISTERED PROFESSIONAL ENGINEER
NO. 1400272-0001
BOHLER ENGINEERING LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
PHONE: (908) 193-5300
FAX: (908) 754-4401
WWW.BOHLENGINEERING.COM

REVISIONS			
REV	DATE	COMMENT	DRAWN BY
1	12/31/2020	PER TOWNSHIP COMMENTS	CUL
2	02/03/2021	REV. PER BOARD ENGINEER	JRH
3	04/23/2021	REV. PER MC SCD	JWH

811

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WHETHER IT'S ON PRIVATE OR PUBLIC LAND.
1-800-452-1989
www.nj-811.org

PRELIMINARY

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT NO.: J201082
DRAWN BY: MFD
CHECKED BY: JAH
DATE: 08/05/2020
CAD I.D.: J201082-SPP-3A

OPERATION,
RESTORATION &
RECLAMATION
PLANS
FOR

SAXTON FALLS SAND
& GRAVEL CO., INC.

PROPOSED
DEVELOPMENT IMPROVEMENTS

BLK: 700 | LOTS: 2, 3, 4, 5 & 8
BLK: 701 | LOTS: 4 & 6
BLK: 800 | LOT: 40
WATERLOO VALLEY ROAD
MT. OLIVE TOWNSHIP
MORRIS COUNTY, NEW JERSEY

BOHLER

BOHLER ENGINEERING LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
PHONE: (908) 193-5300
FAX: (908) 754-4401
WWW.BOHLENGINEERING.COM
LICENSE: OF PROFESSIONAL ENGINEER, NO. 1400272-0001

J.R. HOUSTEN, Jr.

PROFESSIONAL ENGINEER
& LAND SURVEYOR
NEW JERSEY LICENSE NO. 25559

SHEET TITLE:
**OPERATION &
INTERIM
RESTORATION
PLAN**

SHEET NUMBER:
C-03

REVISION 3 - 04/23/2021

G:\2020\2019\2018\2017\2016\2015\2014\2013\2012\2011\2010\2009\2008\2007\2006\2005\2004\2003\2002\2001\2000\1999\1998\1997\1996\1995\1994\1993\1992\1991\1990\1989\1988\1987\1986\1985\1984\1983\1982\1981\1980\1979\1978\1977\1976\1975\1974\1973\1972\1971\1970\1969\1968\1967\1966\1965\1964\1963\1962\1961\1960\1959\1958\1957\1956\1955\1954\1953\1952\1951\1950\1949\1948\1947\1946\1945\1944\1943\1942\1941\1940\1939\1938\1937\1936\1935\1934\1933\1932\1931\1930\1929\1928\1927\1926\1925\1924\1923\1922\1921\1920\1919\1918\1917\1916\1915\1914\1913\1912\1911\1910\1909\1908\1907\1906\1905\1904\1903\1902\1901\1900\1899\1898\1897\1896\1895\1894\1893\1892\1891\1890\1889\1888\1887\1886\1885\1884\1883\1882\1881\1880\1879\1878\1877\1876\1875\1874\1873\1872\1871\1870\1869\1868\1867\1866\1865\1864\1863\1862\1861\1860\1859\1858\1857\1856\1855\1854\1853\1852\1851\1850\1849\1848\1847\1846\1845\1844\1843\1842\1841\1840\1839\1838\1837\1836\1835\1834\1833\1832\1831\1830\1829\1828\1827\1826\1825\1824\1823\1822\1821\1820\1819\1818\1817\1816\1815\1814\1813\1812\1811\1810\1809\1808\1807\1806\1805\1804\1803\1802\1801\1800\1799\1798\1797\1796\1795\1794\1793\1792\1791\1790\1789\1788\1787\1786\1785\1784\1783\1782\1781\1780\1779\1778\1777\1776\1775\1774\1773\1772\1771\1770\1769\1768\1767\1766\1765\1764\1763\1762\1761\1760\1759\1758\1757\1756\1755\1754\1753\1752\1751\1750\1749\1748\1747\1746\1745\1744\1743\1742\1741\1740\1739\1738\1737\1736\1735\1734\1733\1732\1731\1730\1729\1728\1727\1726\1725\1724\1723\1722\1721\1720\1719\1718\1717\1716\1715\1714\1713\1712\1711\1710\1709\1708\1707\1706\1705\1704\1703\1702\1701\1700\1699\1698\1697\1696\1695\1694\1693\1692\1691\1690\1689\1688\1687\1686\1685\1684\1683\1682\1681\1680\1679\1678\1677\1676\1675\1674\1673\1672\1671\1670\1669\1668\1667\1666\1665\1664\1663\1662\1661\1660\1659\1658\1657\1656\1655\1654\1653\1652\1651\1650\1649\1648\1647\1646\1645\1644\1643\1642\1641\1640\1639\1638\1637\1636\1635\1634\1633\1632\1631\1630\1629\1628\1627\1626\1625\1624\1623\1622\1621\1620\1619\1618\1617\1616\1615\1614\1613\1612\1611\1610\1609\1608\1607\1606\1605\1604\1603\1602\1601\1600\1599\1598\1597\1596\1595\1594\1593\1592\1591\1590\1589\1588\1587\1586\1585\1584\1583\1582\1581\1580\1579\1578\1577\1576\1575\1574\1573\1572\1571\1570\1569\1568\1567\1566\1565\1564\1563\1562\1561\1560\1559\1558\1557\1556\1555\1554\1553\1552\1551\1550\1549\1548\1547\1546\1545\1544\1543\1542\1541\1540\1539\1538\1537\1536\1535\1534\1533\1532\1531\1530\1529\1528\1527\1526\1525\1524\1523\1522\1521\1520\1519\1518\1517\1516\1515\1514\1513\1512\1511\1510\1509\1508\1507\1506\1505\1504\1503\1502\1501\1500\1499\1498\1497\1496\1495\1494\1493\1492\1491\1490\1489\1488\1487\1486\1485\1484\1483\1482\1481\1480\1479\1478\1477\1476\1475\1474\1473\1472\1471\1470\1469\1468\1467\1466\1465\1464\1463\1462\1461\1460\1459\1458\1457\1456\1455\1454\1453\1452\1451\1450\1449\1448\1447\1446\1445\1444\1443\1442\1441\1440\1439\1438\1437\1436\1435\1434\1433\1432\1431\1430\1429\1428\1427\1426\1425\1424\1423\1422\1421\1420\1419\1418\1417\1416\1415\1414\1413\1412\1411\1410\1409\1408\1407\1406\1405\1404\1403\1402\1401\1400\1399\1398\1397\1396\1395\1394\1393\1392\1391\1390\1389\1388\1387\1386\1385\1384\1383\1382\1381\1380\1379\1378\1377\1376\1375\1374\1373\1372\1371\1370\1369\1368\1367\1366\1365\1364\1363\1362\1361\1360\1359\1358\1357\1356\1355\1354\1353\1352\1351\1350\1349\1348\1347\1346\1345\1344\1343\1342\1341\1340\1339\1338\1337\1336\1335\1334\1333\1332\1331\1330\1329\1328\1327\1326\1325\1324\1323\1322\1321\1320\1319\1318\1317\1316\1315\1314\1313\1312\1311\1310\1309\1308\1307\1306\1305\1304\1303\1302\1301\1300\1299\1298\1297\1296\1295\1294\1293\1292\1291\1290\1289\1288\1287\1286\1285\1284\1283\1282\1281\1280\1279\1278\1277\1276\1275\1274\1273\1272\1271\1270\1269\1268\1267\1266\1265\1264\1263\1262\1261\1260\1259\1258\1257\1256\1255\1254\1253\1252\1251\1250\1249\1248\1247\1246\1245\1244\1243\1242\1241\1240\1239\1238\1237\1236\1235\1234\1233\1232\1231\1230\1229\1228\1227\1226\1225\1224\1223\1222\1221\1220\1219\1218\1217\1216\1215\1214\1213\1212\1211\1210\1209\1208\1207\1206\1205\1204\1203\1202\1201\1200\1199\1198\1197\1196\1195\1194\1193\1192\1191\1190\1189\1188\1187\1186\1185\1184\1183\1182\1181\1180\1179\1178\1177\1176\1175\1174\1173\1172\1171\1170\1169\1168\1167\1166\1165\1164\1163\1162\1161\1160\1159\1158\1157\1156\1155\1154\1153\1152\1151\1150\1149\1148\1147\1146\1145\1144\1143\1142\1141\1140\1139\1138\1137\1136\1135\1134\1133\1132\1131\1130\1129\1128\1127\1126\1125\1124\1123\1122\1121\1120\1119\1118\1117\1116\1115\1114\1113\1112\1111\1110\1109\1108\1107\1106\1105\1104\1103\1102\1101\1100\1099\1098\1097\1096\1095\1094\1093\1092\1091\1090\1089\1088\1087\1086\1085\1084\1083\1082\1081\1080\1079\1078\1077\1076\1075\1074\1073\1072\1071\1070\1069\1068\1067\1066\1065\1064\1063\1062\1061\1060\1059\1058\1057\1056\1055\1054\1053\1052\1051\1050\1049\1048\1047\1046\1045\1044\1043\1042\1041\1040\1039\1038\1037\1036\1035\1034\1033\1032\1031\1030\1029\1028\1027\1026\1025\1024\1023\1022\10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SAXTON LAKE-MUSCONETCONG RIVER

DILAPIDATED DWELLING
(TENANT OF ST. OF NJ-ACCESS THRU
S.F.S.&G.CO.,INC. MAIN DRIVE TO WATERLOO
VALLEY ROAD)

WARREN
MORRIS COUNTY

EDGE OF EXISTING
WATER (TYP.)

APPROXIMATE
OPERATIONS AREA,
MAX 80 ACRES

BLOCK 700

POND 2
635.4

POND 1
W.E.=639.9

BLOCK 700

DREDGE &
CONVEYORS

POND 4
W.E.=645.8

LACKAWANNA R. R.) MORRIS & ESSEX DIV. MAIN LINE

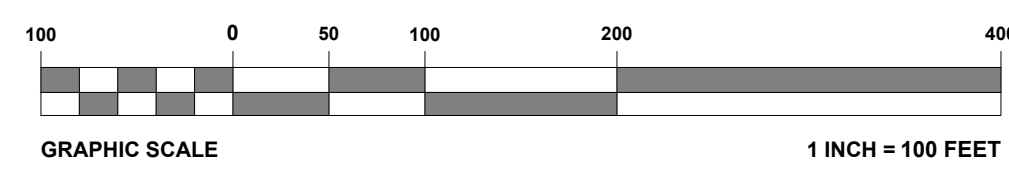
WATERLOO VALLEY ROAD

BLOCK 500
STATE OF N.J. D.E.P.

TOPOGRAPHY VERTICAL
DATUM = NAVD29

THIS PLAN TO BE UTILIZED FOR
EXIST. CONDITIONS ONLY

ALL DISTURBED &
PROPOSED SLOPES
SHALL BE STABILIZED
BY THE GROWTH OF
NATURAL VEGETATION



BOHLER

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LAND ACQUISITION
SUSTAINABLE DESIGN
PERMITTING SERVICES

REV

DATE

COMMENT

DRAWN BY

1

12/31/2020

PER TOWNSHIP COMMENTS

CUH

2

02/03/2021

REV. PER BOARD ENGINEER

JRH

3

04/23/2021

REV. PER MC SCD

JWH

811

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PRELIMINARY

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PROJECT No.: J201082
DRAWN BY: MFD
CHECKED BY: JWH
DATE: 08/05/2020
CAD I.D.: J201082-SPP-3A

PROJECT:
OPERATION,
RESTORATION &
RECLAMATION
PLANS
FOR
SAXTON FALLS SAND
& GRAVEL CO., INC.
PROPOSED
DEVELOPMENT IMPROVEMENTS
BLK: 700 | LOTS: 2, 3, 4, 5 & 8
BLK: 701 | LOTS: 4 & 6
BLK: 800 | LOT: 40
WATERLOO VALLEY ROAD
MT. OLIVE TOWNSHIP
MORRIS COUNTY, NEW JERSEY

BOHLER

BOHLER ENGINEERING NJ, LLC
30 INDEPENDENCE BLVD., SUITE 200
WARREN, NJ 07059
PHONE: (908) 193-5300
FAX: (908) 754-4401
www.BohlerEngineering.com
E-MAIL: info@bohlerengineering.com

J.R. HOUSTEN, Jr.

PROFESSIONAL ENGINEER
& LAND SURVEYOR
NEW JERSEY LICENSE No. 25559

SHEET TITLE:
OPERATION &
INTERIM
RESTORATION
PLAN

SHEET NUMBER:
C-04

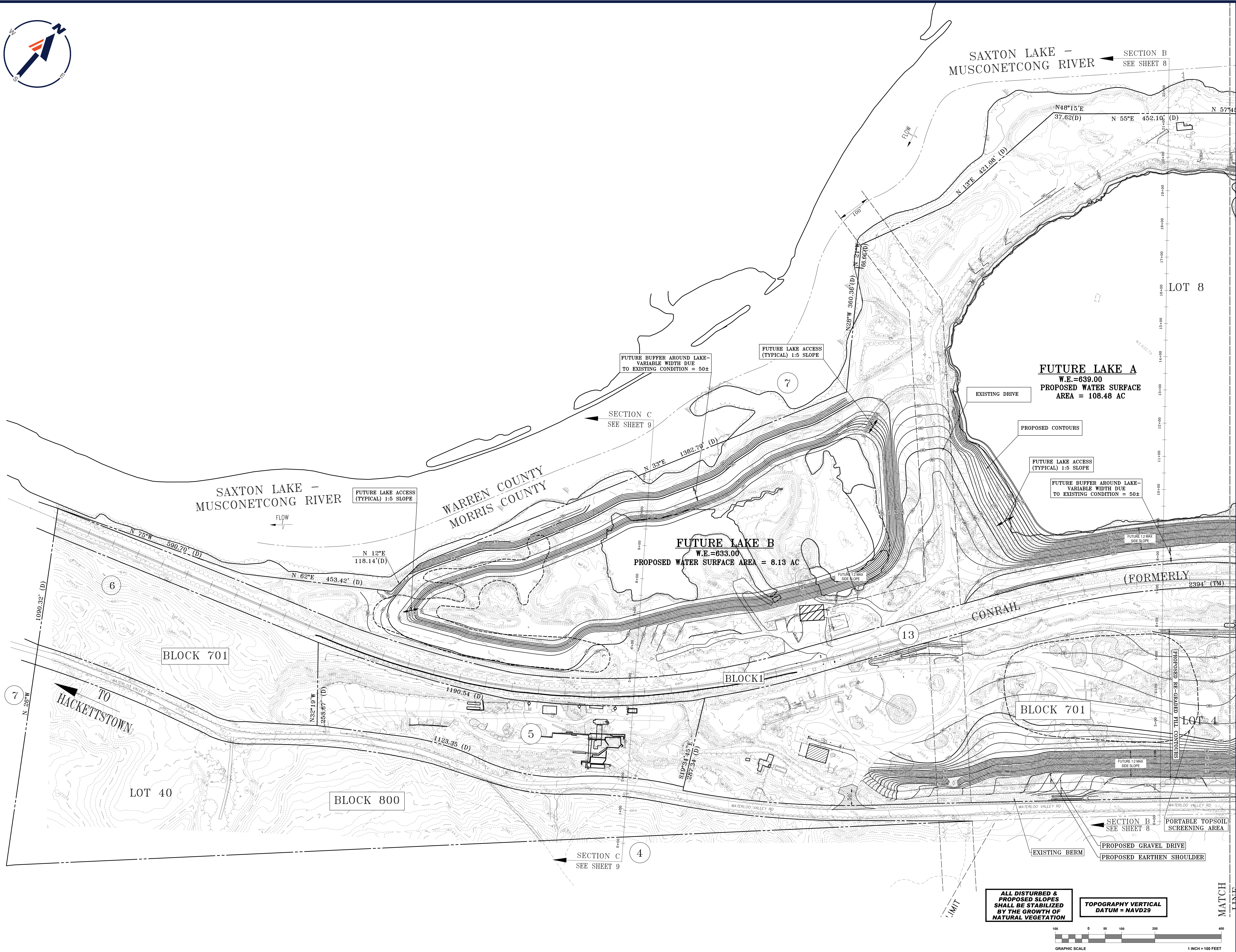
REVISION 3 - 04/23/2021

G:\2020\201082\DRAWINGS\CURRENT DRAWINGS\SITE PLAN PACKAGE\J201082-SPP-3A--LAYOUT-C-04-REST

MATCH
LINE

EXISTING BERM

EXISTING TAX LOT & BLOCK
NUMBERS (TYP.)



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LANDSCAPE ARCHITECTURE

SUSTAINABLE DESIGN

PERMITTING SERVICES

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REVISIONS				DATE	COMMENT	BY	CHKD BY
1	12/31/2020	PER TOWNSHIP COMMENTS	CU	JRH			
2	02/03/2021	REV. PER BOARD ENGINEER	JRH	JRH			
3	04/23/2021	REV. PER MC SCD	JRH	JRH			

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MT. OLIVE TOWNSHIP
MORRIS COUNTY, NEW JERSEY

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BOHLER ENGINEERING, LLC

30 INDEPENDENCE BLVD., SUITE 200

WARREN, NJ 07059

PHONE: (908) 1938-5300

FAX: (908) 754-4401

www.BohlerEngineering.com

LICENSE OR AUTHORIZATION NO.: 00000000000000000000000000000000

J.R. HOUSTEN, Jr.

PROFESSIONAL ENGINEER
& LAND SURVEYOR

NEW JERSEY LICENSE NO. 25539

SHEET TITLE:

FINAL
RECLAMATION
PLAN

SHEET NUMBER:

C-05

REVISION 3 - 04/23/2021



SAXTON LAKE-MUSCONETCONG RIVER

DILAPIDATED DWELLING
(TENANT OF ST. OF NJ-ACCESS THRU
S.F.S.&G.CO.,INC. MAIN DRIVE TO WATERLOO
VALLEY ROAD)

MORRIS CO.

EDGE OF EXISTING
WATER (TYP.)

STATE OF N.J. D.E.P.

7

N 57°W
50.00(D)

N 49°E
588' (D)

N 52°E
1026.30' (D)

S 34°12'W
62.65' (D)

N51°30'E
119.46(D)

N10°30'E
147.84(D)

N 68°30'E
163.00' (D)

N 08°14'W
237.47' (D)

S 61°33'W
394.05' (D)

N 08°14'W
237.47' (D)

S 61°33'W
394.05' (D)

N 08°14'W
237.47' (D)

S 61°33'W
394.05' (D)

N 08°14'W
237.47' (D)

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237.47' (D)

S 61°33'W
394.05' (D)

N 08°14'W
237.47' (D)

S 61°33'W
394.05' (D)

N 08°14'W
237.47' (D)

S 61°33'W
394.05' (D)

EXISTING DRIVE

PROPOSED DRIVE

LOT 3

LOT 2

BLOCK 700

DREDGE &
CONVEYORS

STATE OF N.J. D.E.P.

1

POND 2
635.4

POND 1
W.E.=639.9

FUTURE LAKE A
W.E.=639.00

PROPOSED WATER
SURFACE AREA =
108.48 AC

BLOCK 700

EXISTING DRIVE

FUTURE BUFFER AROUND LAKE-
VARIABLE WIDTH DUE
TO EXISTING CONDITION = 50±

50' MIN. BUFFER

FUTURE LAKE ACCESS
(TYPICAL) 1:5 SLOPE

POND 4
W.E.=645.8

SECTION D
SEE SHEET 10

LACKAWANNA R. R.)

MORRIS & ESSEX DIV. MAIN LINE

PROPOSED RE-GRADED FILL CONTOURS
- ELEVATION OF EXISTING POND 4

PROPOSED
EARTHEN
SHOULDER

PROPOSED
GRAVEL
DRIVE

EXISTING BERM

SECTION D
SEE SHEET 10

WATERLOO VALLEY ROAD

PROPOSED BERM TO
CLOSE OPENING FROM
WATERLOO VALLEY ROAD

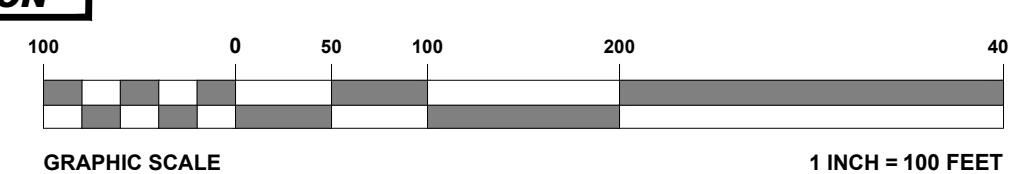
SECTION A
SEE SHEET 7

BLOCK 500
STATE OF N.J. D.E.P.

MATCH
LINE

ALL DISTURBED &
PROPOSED SLOPES
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BY THE GROWTH OF
NATURAL VEGETATION

TOPOGRAPHY VERTICAL
DATUM = NAVD29



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SITE CIVIL AND CONSULTING ENGINEERING

LAND SURVEYING

PROGRAM MANAGEMENT

LAND ACQUISITION

LAND DEVELOPMENT

PERMITTING SERVICES

TRANSPORTATION SERVICES

REV	DATE	COMMENT	DRAWN BY
1	12/31/2020	PER TOWNSHIP COMMENTS	JRH
2	02/03/2021	REV. PER BOARD	ACH
3	04/23/2021	REV. PER MC SCD	JRH

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CHECKED BY: JAH
DATE: 08/05/2020
CAD I.D.: J201082-SPP-3A

PROJECT:
**OPERATION,
RESTORATION &
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FOR

SAXTON FALLS SAND
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PROPOSED
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WATERLOO VALLEY ROAD
MT. OLIVE TOWNSHIP
MORRIS COUNTY, NEW JERSEY

BOHLER

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STATE OF AUTHORIZATION NO. 00000000000000000000

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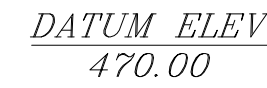
SHEET TITLE:

**FINAL
RECLAMATION
PLAN**

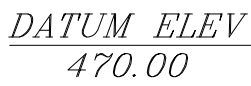
SHEET NUMBER:

C-06

REVISION 3 - 04/23/2021



SCALE: 1" = 40' (H)
1" = 40' (V)



SCALE: 1" = 40' (H)
1" = 40' (V)



PRELIMINARY

PROJECT: _____

PROPOSED

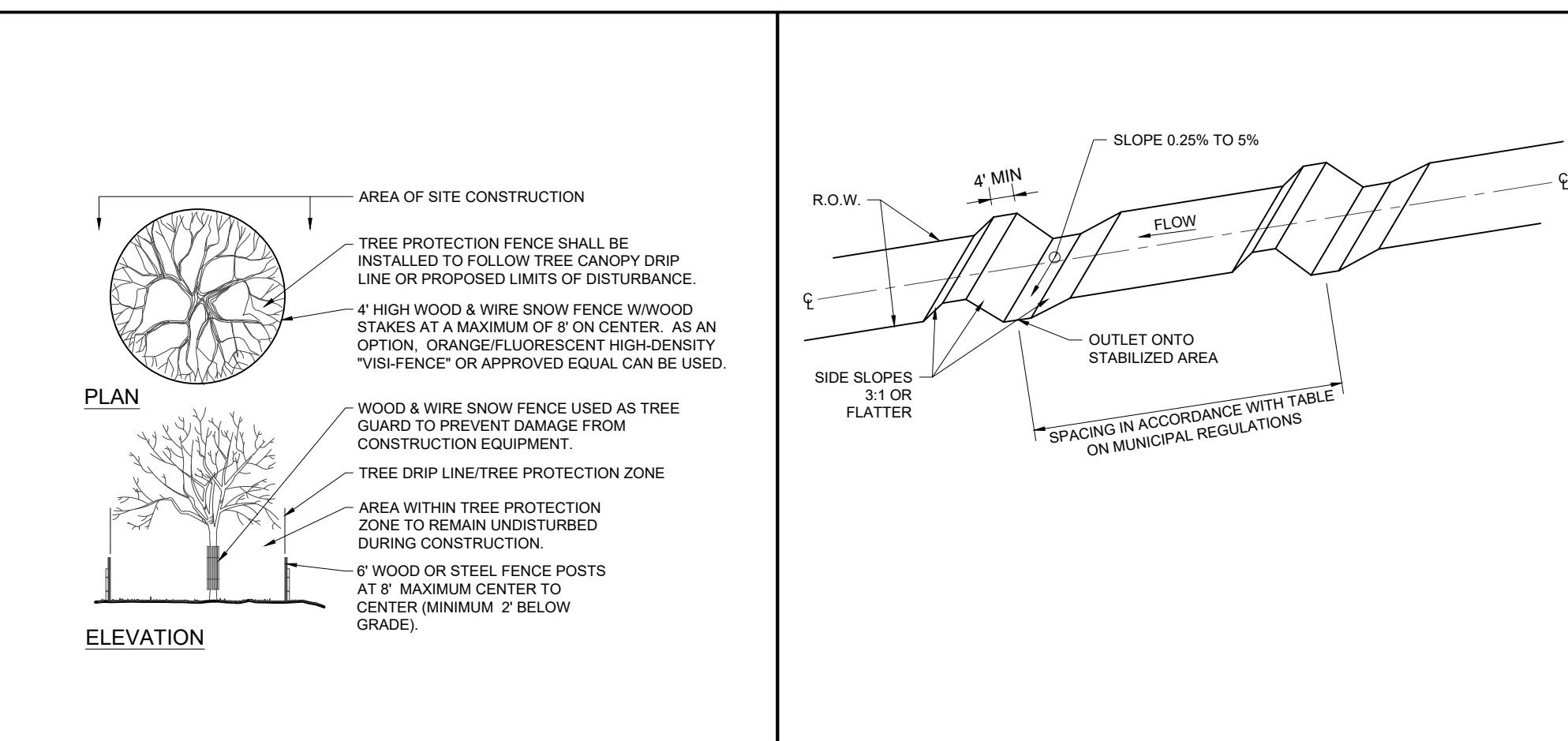
POWER

.....

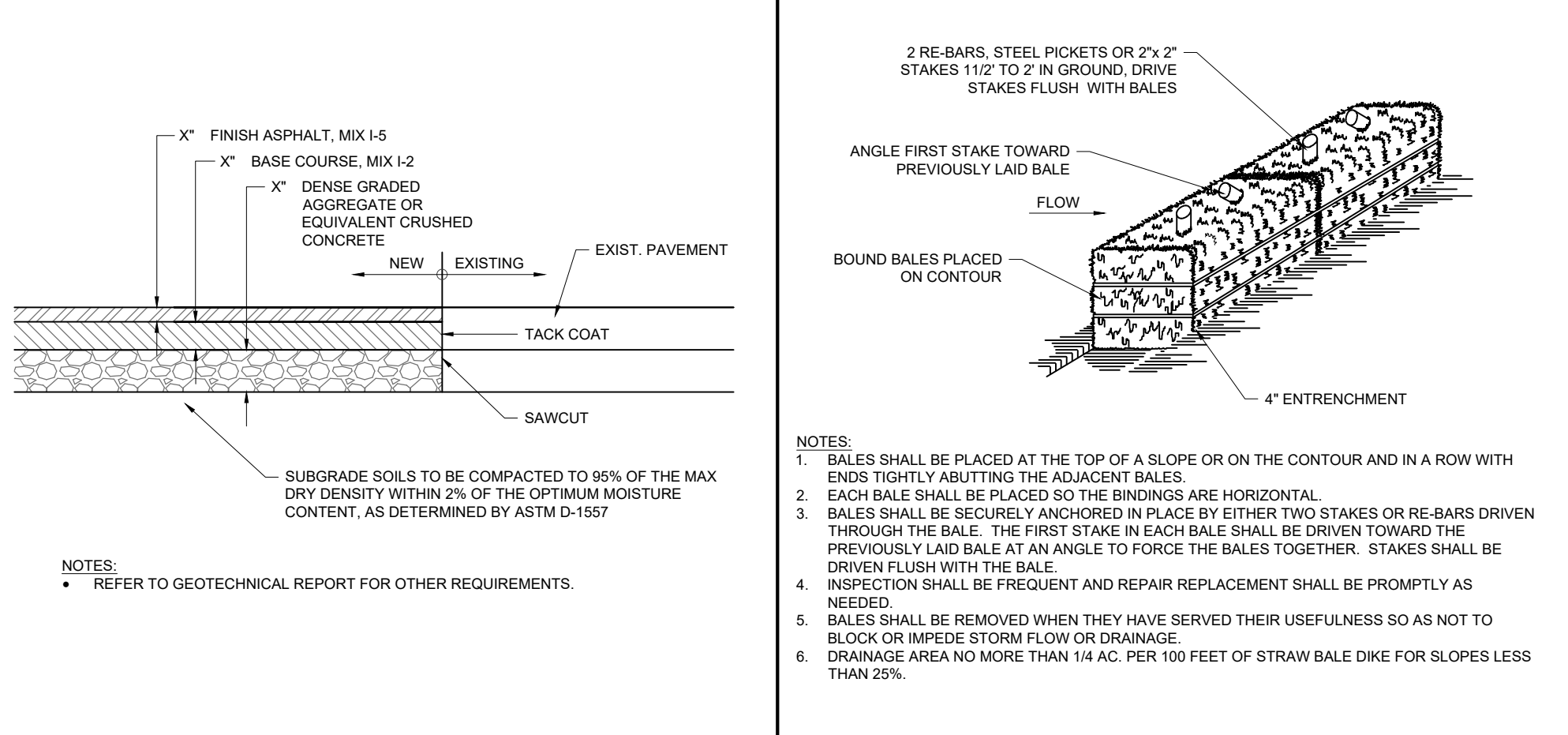
SHEET TITLE:

SHEET NUMBER: _____

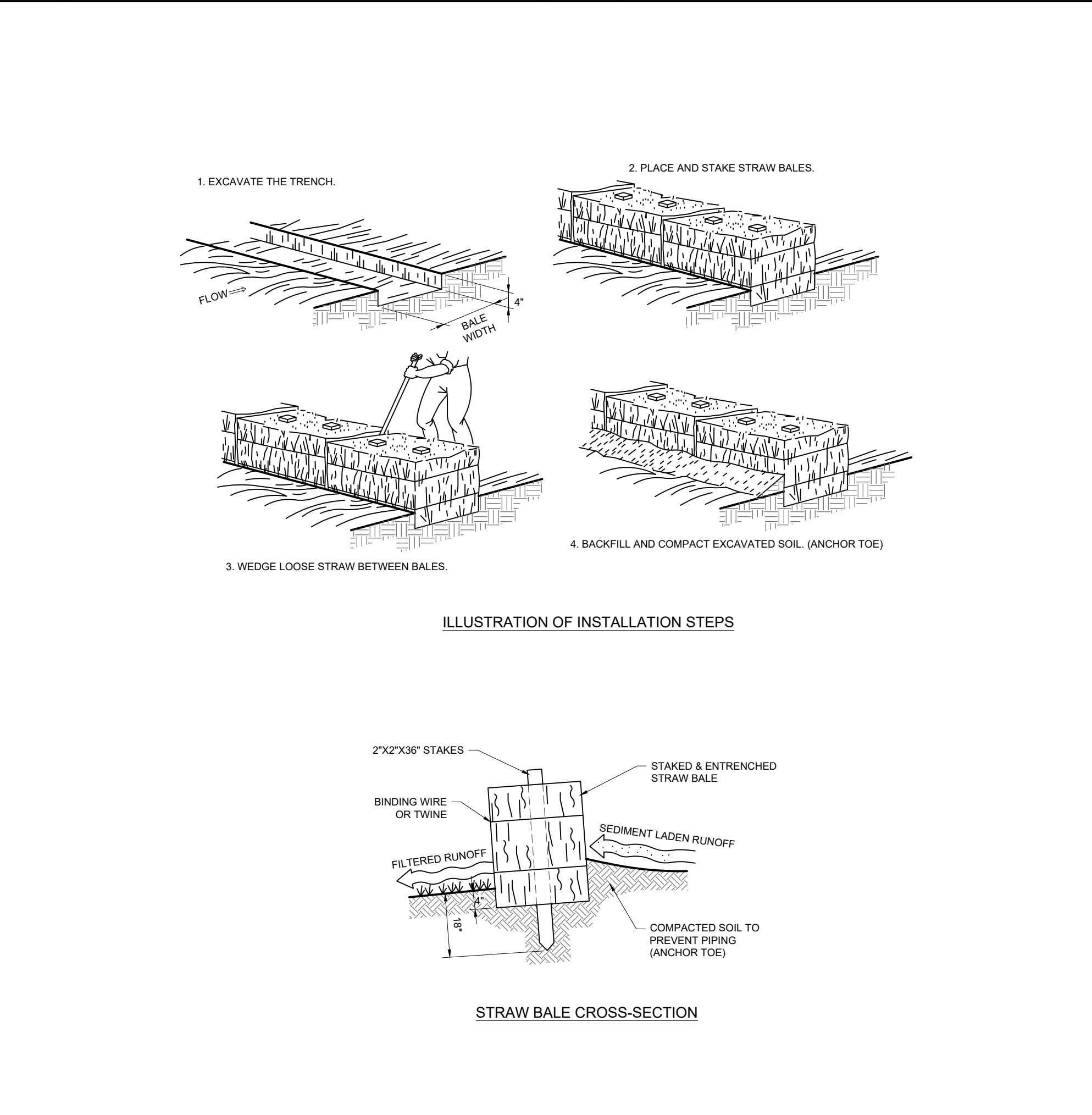
REVISION 3 - 04/23/2021



2	<p align="center"><u>TREE PROTECTION DURING SITE CONSTRUCTION DETAIL</u></p> <p align="center">NOT TO SCALE (0030909 - 4/2017)</p>	3	<p align="center"><u>DIVERSION BERM FOR GRADED RIGHT OF WAY DETAIL</u></p> <p align="center">NOT TO SCALE (0019901-01/2013)</p>
---	---	---	--



5	<u>STANDARD PAVING DETAIL</u> NOT TO SCALE (S080102-01/2013)	6	<u>STRAW BALE & DIKE DETAIL</u> NOT TO SCALE (O050901-01/2013)
---	--	---	--



8	<p><u>STRAW BALE SEDIMENT BARRIER DETAIL</u></p> <p>NOT TO SCALE (0059802-01/2013)</p>
----------	---

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) -SPRAY ON	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD.		
POLYACRYLAMIDE (PAM) -DRY SPREAD			
ACIDULATED SOY BEAN SOAP SLICK	NONE	COARSE SPRAY	1,200

TELLS YOU TOUGHEN THE SURFACE AND BRING THE CLODS TO THE SURFACE. THIS IS A
TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS.
BEFORE FLOWING ON WINDWARD SIDE OF SITE, CHISEL-TYPE PLOWING GRAZED ABOUT 1 INCHES
APART AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE
THE DESIRED EFFECT.

SPRINKLING: SILE IS SPRINKLED UNTIL THE SURFACE IS WET.

HARROWS: SOIL BOARD FEEDS, SNOW FEEDS, BURIAL FEEDS, CRATE WALLS, BAYS OF HALE
AND SIMILAR MATERIAL, ARE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE: SHALL BE IN THE FORM OF DRY, CRISTE DRY OR FLAKES FINE ENOUGH
TO FLY THROUGH COMMONLY USED SPRINKLERS AT A RATE THAT WILL KEEP SURFACE MOIST
BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. (SEE TEST REPORTS, 1957, 1958, 1959). THEN USE
OTHER PRACTICES TO PREVENT WASHING IN STREAMS OR ACCUMULATION AROUND PLANTS.

STONE: COARSE PAVING WITH CRUSHED STONE OR COARSE GRAVEL.

9	<p align="center"><i>NJSCD STANDARD FOR DUST CONTROL</i></p> <p align="center">NOT TO SCALE (0999916 - 2/2018)</p>	
---	---	--

SEQUENCE OF CONSTRUCTION (AKA SITE RESTORATION & RELOCATION) - PHASE TIME FRAMES ARE INDETERMINATE:

- PHASE 1: CONTINUE THE CURRENT MINING & QUARRYING OPERATION ACCORDING TO THE APPROVED ANNUAL TOWNSHIP PERMIT AND THE PLAN SHOWN HEREIN.
- PHASE 2: AS THE DISTURBANCE OF LAND AREAS AROUND THE PERIPHERY OF THE PROPOSED LAKES ARE COMPLETED, THE SLOPES SHALL BE RESTORED WITH VEGETATED SLOPES OF 2:1.
- PHASE 3: AS THE SLOPES SETBACK TO THE EXISTING POND, THE SLOPES SHALL BE MAINTAINED TO PROMOTE THE GROWTH OF NATURAL INDIGENOUS FISHING FOR FISH. STABILIZATION AND RECLAMATION OF THE LAKEBEDS.
- PHASE 4: DURING ALL FUTURE MINING & QUARRYING OPERATIONS, NO LAND SHALL BE DISTURBED TO CAUSE FUTURE RUNOFF TO LEAVE THE LAKE RUNOFF FROM SAG DRAINAGE MUST BE GRASSED TO FLOW INTO THE EXISTING POND AND FORMER LAKE.
- PHASE 5: ANY POTENTIAL WIND BORN EROSION MUST ALWAYS BE CONTROLLED BY THE USUE TO WALK TRUCK.

STABILIZATION SPECIFICATIONS TEMPORARY SEEDING AND MULCHING:

- LIME
90 LBS/1,000 SF OF CRUDE LIMESTONE; FERTILIZER - 11 LBS/1,000 SF. 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4".
- SEEDS
COTTON SEED
PERENNIAL RYE GRASS 100 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN 1" AND MAY 15 AND BETWEEN 15" AND OCTOBER 15
WARM SEED
PERAL MULLETT AT 2 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MAY 15 AND AUGUST 15
- MULCH
SMALL OR SMALL FRAGR STRAW AT A RATE OF 75 TO 100 LBS/1,000 SF TO BE APPLIED ACCORDING TO THE STATE STANDARDS. MULCH SHALL BE DRYED BY APPROVED METHODS (E. PEG AND TWINE, OR MULD NETTING, OR LIQUID MULCH BINDER).

MULCH STABILIZATION

[illegible]

SOIL EROSION & SEDIMENT CONTROL MEASURE NOTES:
ALL EXISTING & PROPOSED / FUTURE GRADING AND LAND DISTURBANCE WILL NOT CAUSE SOIL EROSION OR RUNOFF TO FLOW ONTO ADJOINING PROPERTIES, ROADWAYS OR WATER COURSES, RATHER, ONLY INTO THE EXISTING PONDS AND FUTURE LAKES. THE EXISTING POND ARE NOT ARE NOT CONNECTED TO ANY OF THE WATERCOURSES, RATHER THEY ARE INTERCONNECTED WITH THE EXISTING UNDERGROUND GROUNDWATER AQUIFER, WHICH CONTROLS THE EXISTING WATER LEVELS. THE EXISTING PONDS HAVE BEEN CREATED OVER MANY YEARS OF QUARRYING & MINING SAND & GRAVEL AND THE WATER LEVELS FLUCTUATE OVER TIME. THE PROPOSED FUTURE LAKES WILL TAKE MANY MORE YEARS TO COMPLETELY DEVELOP. SOIL EROSION & SEDIMENT CONTROL MEASURES SHOWN HEREON BECOME NECESSARY, THEY WILL BE IMPLEMENTED AS NEEDED.

PROPOSED IMPROVEMENTS & LANDSCAPING
AS SHOWN ON THE FINAL RECLAMATION PLANS, SHEETS
C-05 & C-06, THE SPECIFIC IMPROVEMENTS PROPOSED
ARE THE CREATION OF FUTURE LAKES A & B, FILLING OF
POND 4, ASSOCIATED FUTURE ACCESS DRIVES & SLOPES.
LANDSCAPING WILL BE IN THE FORM OF ALLOWING ALL
DISTURBED AREAS TO GROW WITH NATURAL VEGETATION

**ALL DISTURBED &
PROPOSED SLOPES
SHALL BE STABILIZED
BY THE GROWTH OF
NATURAL VEGETATION**

1. The Contractor shall prepare a plan for the proper dewatering of each stream crossing prior to excavating the stream bed. Plan shall be forwarded to the engineer and Morris County Soil Conservation District for approval. The District shall be notified for inspection prior to each stream crossing construction.
2. Any areas used for the Contractor's staging, including but not limited to, temporary storage of stockpiled materials (e.g. crushed stone, quarry process stone, select fill, excavated materials, etc.), shall be entirely protected by a silt fence along the low elevation side to control sediment runoff.
3. Prior to construction, the contractor shall be responsible for notifying the Morris County Soil Conservation District of any staging and/or stockpile location areas and for obtaining a Soil Erosion and Sediment Control Certification for these areas.
4. A crushed stone, vehicle wheel-cleaning blanket shall be installed at the Contractor's staging yard and/or stockpile areas to prevent off-site tracing of sediment by construction vehicles onto public roads. Blanket shall be 15 ft. x 50 ft. in size (minimum), crushed stone 2-1/2 inches in diameter. Said blanket shall be underlain with a suitable synthetic sediment filter fabric and maintained in good order.

[illegible]