



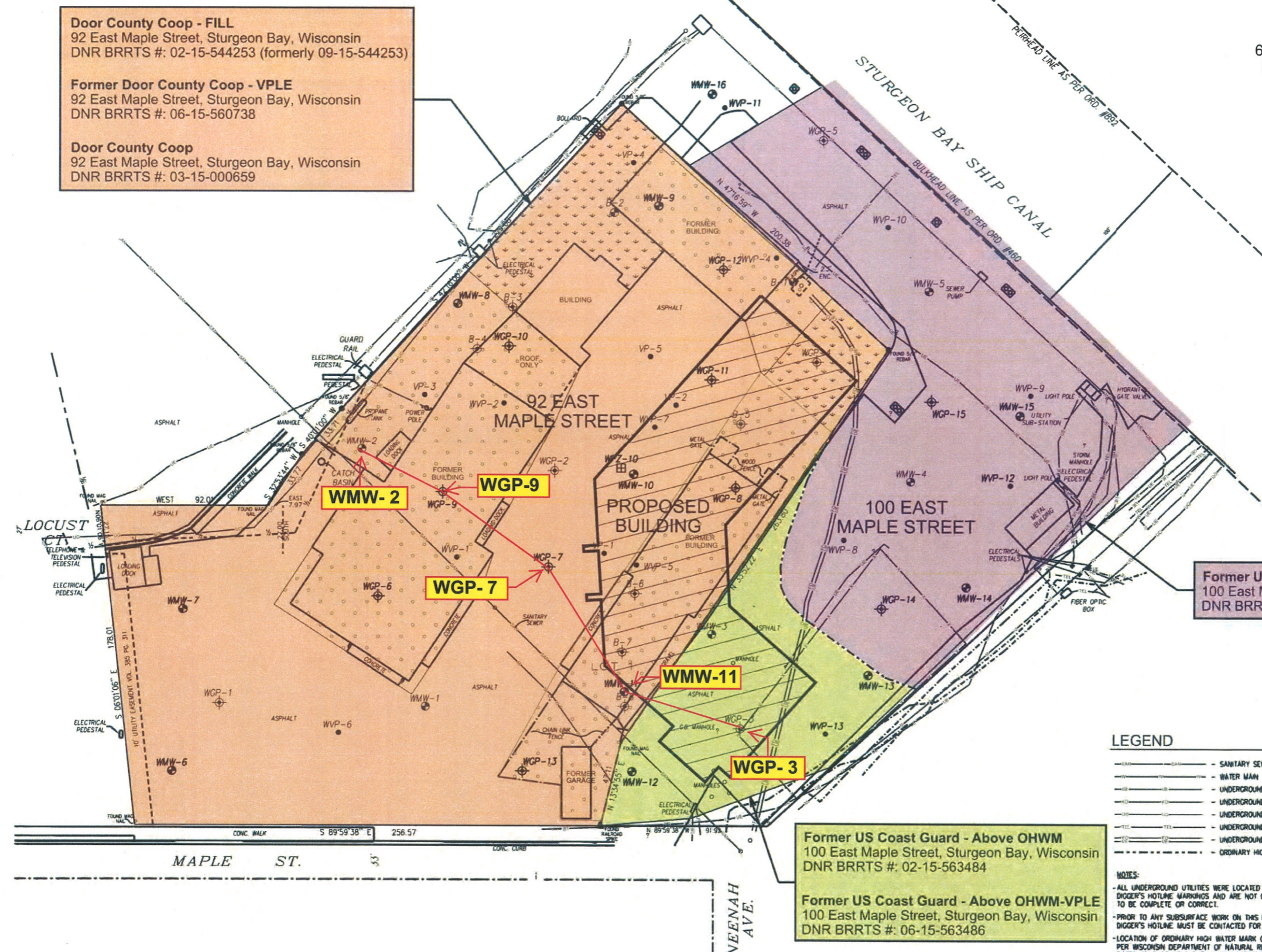
Door County Coop - FILL
92 East Maple Street, Sturgeon Bay, Wisconsin
DNR BRRTS #: 02-15-544253 (formerly 09-15-544253)

Former Door County Coop - VPLE
92 East Maple Street, Sturgeon Bay, Wisconsin
DNR BRRTS #: 06-15-560738

Door County Coop
92 East Maple Street, Sturgeon Bay, Wisconsin
DNR BRRTS #: 03-15-000659

GROUND SURFACE COVER

- GRASS
- SAND & GRAVEL
- ASPHALT/CONCRETE



Former US Coast Guard - Below OHWM
100 East Maple Street, Sturgeon Bay, Wisconsin
DNR BRRTS #: 02-15-563485

Former US Coast Guard - Above OHWM
100 East Maple Street, Sturgeon Bay, Wisconsin
DNR BRRTS #: 02-15-563484

Former US Coast Guard - Above OHWM-VPLE
100 East Maple Street, Sturgeon Bay, Wisconsin
DNR BRRTS #: 06-15-563486

LEGEND

- SANITARY SEWER LINE
 - WATER MAIN
 - UNDERGROUND ELECTRIC LINE
 - UNDERGROUND FIBER OPTIC LINE
 - UNDERGROUND GAS LINE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND ELECTRIC & FIBER OPTIC
 - ORDINARY HIGH WATER MARK
 - MONITORING WELL
 - GEOPROBE
 - VAPOR PROBE
 - PIEZOMETER
 - MONITORING WELL (BY STS CONSULTANTS 2004)
 - GEOPROBE (BY STS CONSULTANTS 2004)
 - VAPOR PROBE (BY STS CONSULTANTS 2004)
- NOTES:**
- ALL UNDERGROUND UTILITIES WERE LOCATED AS PER DIGGER'S HOTLINE MARKINGS AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT.
 - PRIOR TO ANY SUBSURFACE WORK ON THIS PROPERTY, DIGGER'S HOTLINE MUST BE CONTACTED FOR A RE-LOCATE.
 - LOCATION OF ORDINARY HIGH WATER MARK OF STURGEON BAY PER WISCONSIN DEPARTMENT OF NATURAL RESOURCES BASED ON PLAT OF SURVEY DATED OCTOBER 2, 2014

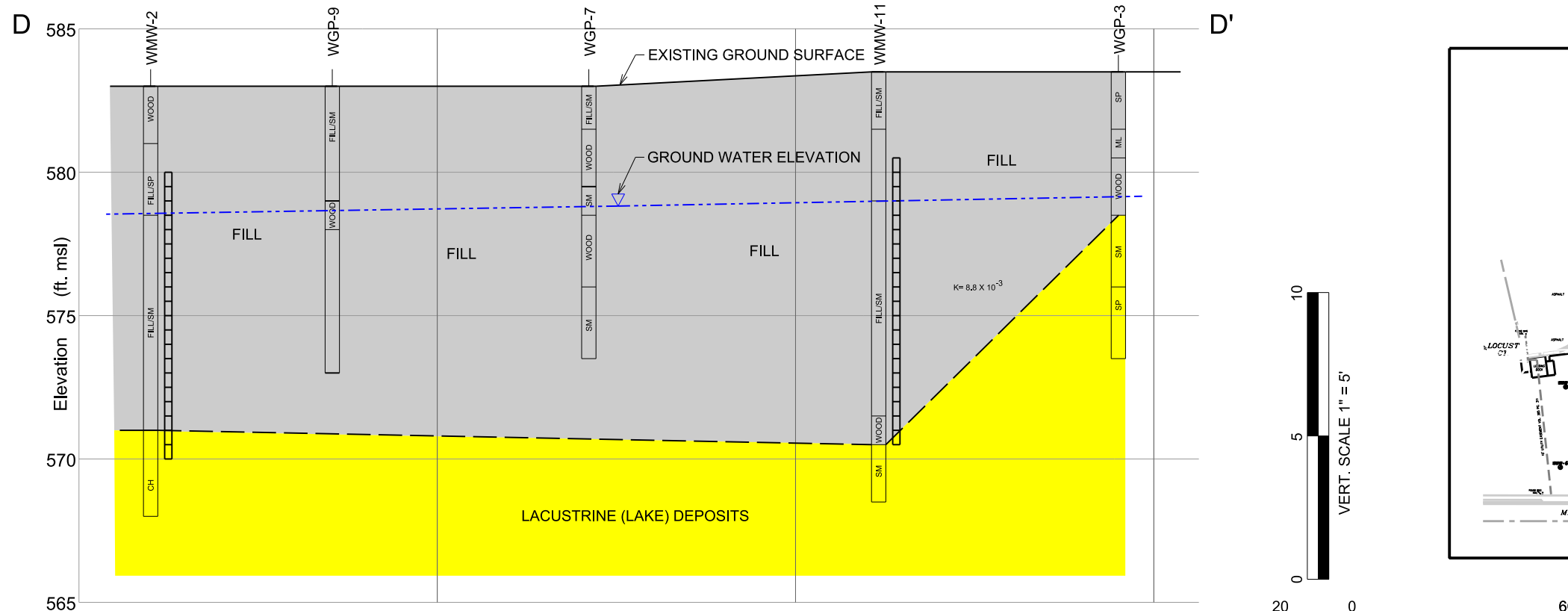
| DESIGNED BY | BOOK NO. | DATE | REVISION | NO. | DATE | REVISION |
|-------------|----------|------------|---|-----|------|----------|
| J. STEINER | 1 | 02-11-2015 | ADDED ORDINARY HIGH WATER MARK FOR STURGEON BAY | | | |
| T. SHUPERT | 2 | 06-11-2015 | ADDED WCP-13 - 15, WMW-12 - 16, WVP-11 - 13 | | | |
| J. STEINER | 3 | 09-25-2015 | ADDED GROUND SURFACE COVER INFORMATION | | | |
| J. STEINER | | JUNE 2015 | | | | |

WEST WATERFRONT REDEVELOPMENT PROJECT
CITY OF STURGEON BAY
STURGEON BAY, WISCONSIN

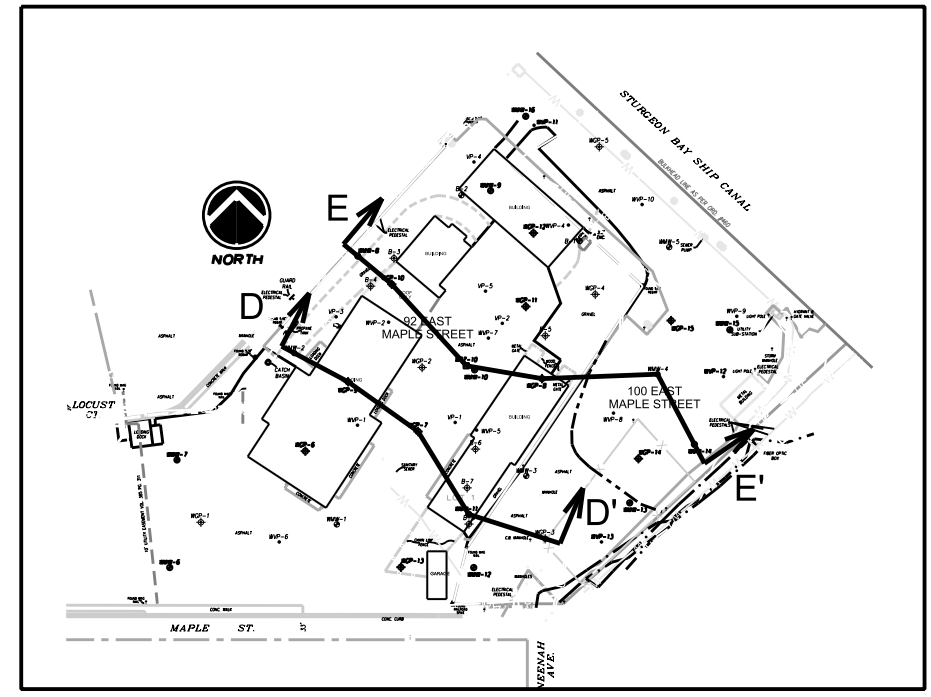


SITE MAP

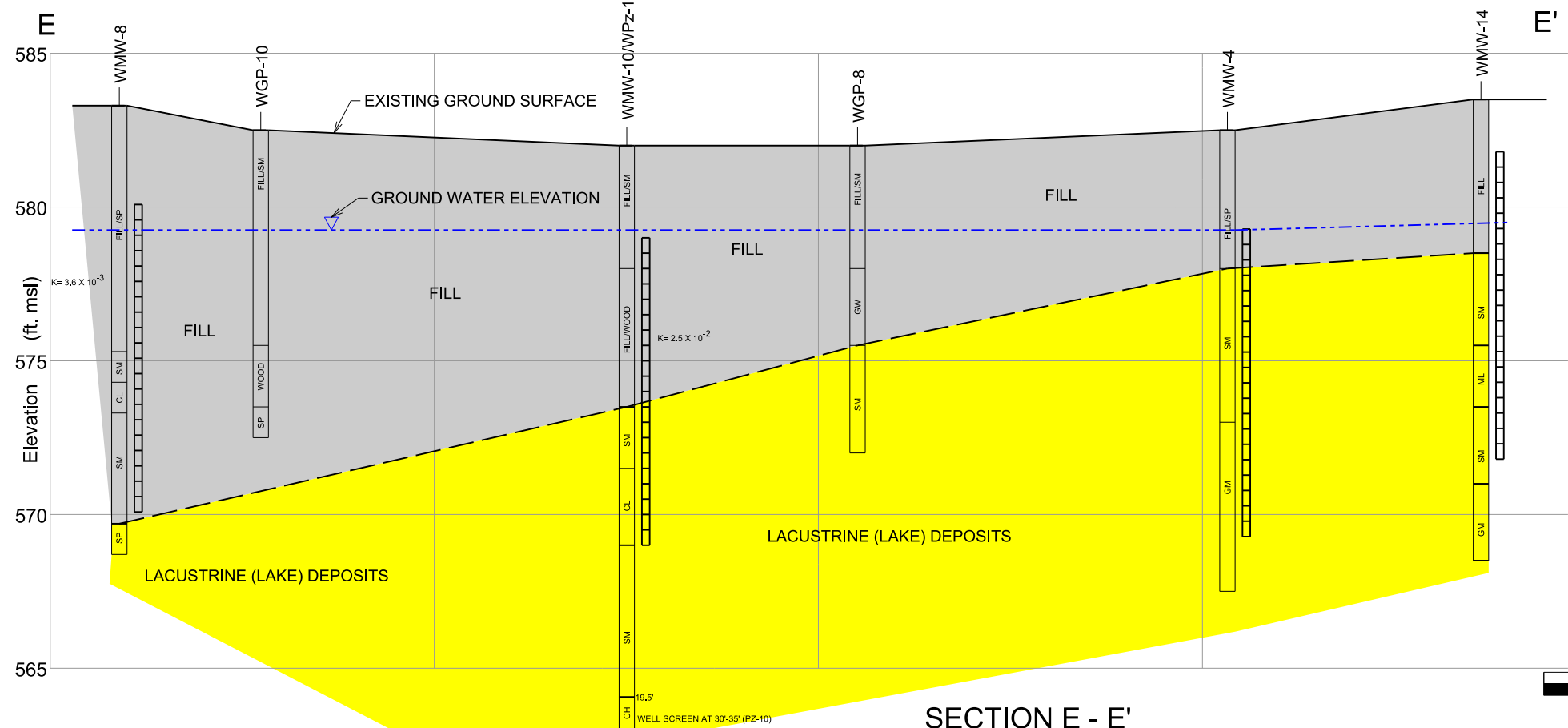
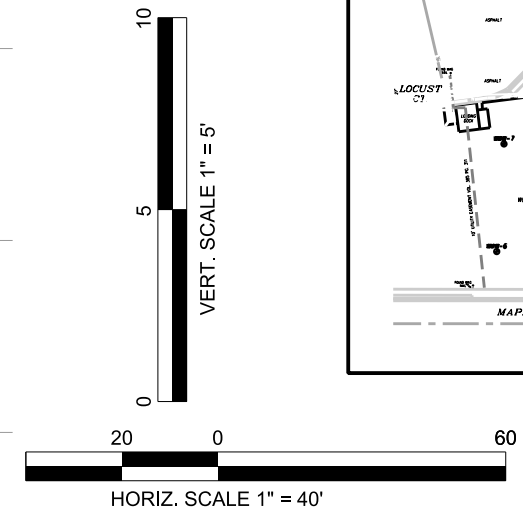
Ayres_dft.plt
 ES_text_04d.tbl
 9/9/2015
 L:\Sturgeon Bay\OGN\Site Map w/ Prop Building.dgn



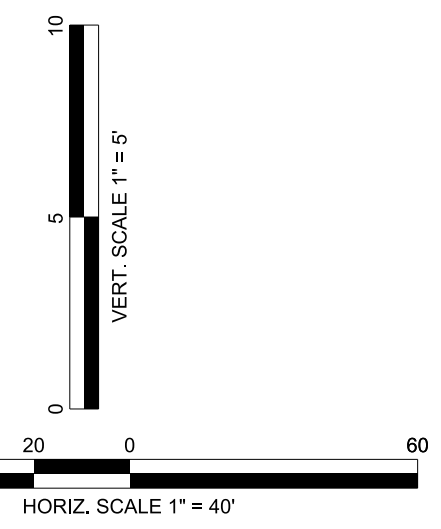
SECTION D - D'



SECTION LOCATION MAP
NTS



SECTION E - E'



- LEGEND**
- WATER LEVEL MEASURED IN WATER TABLE OBSERVATION WELL
 - MONITORING WELL SCREEN INTERVAL
 - CL INORGANIC CLAYS OF LOW PLASTICITY
 - CH INORGANIC CLAYS OF HIGH PLASTICITY
 - ML INORGANIC SILTS AND VERY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
 - SC CLAYEY SANDS, SAND - CLAY MIXTURES
 - SM SILTY SANDS, SAND - SILT MIXTURES
 - SP POORLY - GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
 - GM SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
 - GP POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
 - $K = 4.9 \times 10^{-3}$ HYDRAULIC CONDUCTIVITY (cm/sec)

Avesa.pdf.plt
 ES: 10/23/2015
 6/23/2015
 V:\EN\CAD\Sturgeon Bay\DWG\Geologic\Sections C.dgn

| | | | |
|--------|------------|----------|------------|
| DES BY | J. STEINER | BOOK NO | |
| DR BY | T. SHUPERT | JOB NO | 19-0422.00 |
| CHK BY | J. STEINER | DATE | JUNE 2015 |
| | NO | DATE | |
| | REVISION | NO | DATE |
| | | REVISION | |

WEST WATERFRONT REDEVELOPMENT PROJECT
 CITY OF STURGEON BAY
 STURGEON BAY, WISCONSIN



GEOLOGICAL CROSS SECTION D - D' AND E - E'

DRAWING NO
6

Route to:
 Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|---|-----------------|---------------------------|---|---|--|
| Facility/Project Name West Waterfront Redevelopment Project | | | License/Permit/Monitoring Number | | Boring Number WMW-2 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On_Site Environmental Drilling Inc. | | | Date Drilling Started 5/23/2013 M/D/Y | Date Drilling Completed 5/23/2013 M/D/Y | Drilling Method 4.25" ID Hollow Stem Auger |
| WI Unique Well No. | DNR Well Id No. | Well Name WMW-2 | Final Static Water Level 3.85 | Surface Elevation | Borehole Dia. 8-inch |
| Local Grid Origin L (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane <u> </u> N, <u> </u> E NE 1/4 of NE 1/4, of Section 7, T 27 N, R 26 E | | | Lat. <u> </u> " <u> </u> " | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County Door | County Code 15 | Civil Town/City/or Village City of Sturgeon Bay | |

| SAMPLE | | | | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | RQD/Comments |
|-----------------|-------------------------------|-------------|--------------------------------------|--|---------------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length, Alt. & Recovered (ft) | Blow Counts | Depth in feet (Below ground surface) | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Topsoil (2") FILL, Wood, moist, | FILL/ Wood | | | 0 | | M | | | | |
| | | | -2 | | | | | | | | | | | |
| | | | -3 | FILL, SAND, silty, some gravel and cobbles, fine, grained, no odor, brown | FILL/ SP | | | 0 | | D | | | | |
| | | | -4 | | | | | | | | | | | |
| | | | -5 | FILL, WOOD, at 5 feet | FILL/ Wood | | | 0 | | M | | | | |
| | | | -6 | FILL, SAND, silty, some gravel, wet, fine grained, no odor, brown | FILL/ Wood | | | 0 | | M | | | | |
| | | | -7 | wood at 6-7 feet | | | | 0 | | W | | | | |
| | | | -8 | black to gray sand | SM | | | 0 | | W | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | organics, wood chips, soft, black 11-12 feet, some small shells | SM | | | 0 | | W | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | CLAY, silty, very stiff, wet, high plasticity, no odor, red | CH | | | 0 | | W | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | EOB @ 15 feet bgs Well set @ 12.8 feet | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm **AYRES ASSOCIATES**

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Route to:
 Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| Facility/Project Name West Waterfront Redevelopment Project | | | | License/Permit/Monitoring Number | | | | Boring Number WGP-9 | | | | | | | | |
|--|------------------------------|-----------------------|-------------|---|---|---|-------------|------------------------------------|---------|--------------------------------|--------------|------------------|-------|--|--------------|--|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On Site Environmental Drilling Inc. | | | | Date Drilling Started 7/15/2014 M/D/Y | | Date Drilling Completed 7/15/2014 M/D/Y | | Drilling Method Geoprobe | | | | | | | | |
| WI Unique Well No. | | DNR Well Id No. | | Well Name WGP-9 | | Final Static Water Level | | Surface Elevation | | Borehole Dia. 2-inch | | | | | | |
| Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N , E NE 1/4 of NE 1/4, of Section 7, T 27 N, R 26 E | | | | Lat. " ' " | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | | Feet | | Feet | | | | | | |
| Facility Id. | | County Door | | County Code 15 | | Civil Town/City/or Village City of Sturgeon Bay | | | | | | | | | | |
| SAMPLE | | | Blow Counts | Depth in Feet (Below ground surface) | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | RQD/Comments | |
| Number and Type | Length Att. & Recovered (in) | Moisture Content | | | | | | | | Compressive Strength | Liquid Limit | Plasticity Index | P 200 | | | |
| | | | | -1 | Concrete (4") FILL, SAND, some silt, some gravel, moist no odor, lt gray - lt brown | FILL/ SM | | | 0 | | | | | | | |
| | | | | -4 | | | | | 0 | | | | | | | |
| | | | | -5 | FILL, Wood, some plastic, moist, no odor dk brown | Wood | | | | | | | | | | |
| | | | | -6 | FILL, SAND, some silt, some gravel, moist, no odor, gray | SM | | | 0 | | | | | | | |
| | | | | -10 | | | | | 0 | | | | | | | |
| | | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Handwritten Signature]* Firm **AYRES ASSOCIATES**

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Route to:
 Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|--|-----------------------|---------------------------|---|---|------------------------------------|
| Facility/Project Name West Waterfront Redevelopment Project | | | License/Permit/Monitoring Number | | Boring Number WGP-7 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On Site Environmental Drilling Inc. | | | Date Drilling Started 7/15/2014 M/D/Y | Date Drilling Completed 7/15/2014 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name WGP-7 | Final Static Water Level | Surface Elevation | Borehole Dia. 2-inch |
| Local Grid Origin L (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N , E NE 1/4 of NE 1/4, of Section 7, T 27 N, R 26 E | | | Lat. " ' " | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | County Door | County Code 15 | Civil Town/City/or Village City of Sturgeon Bay | | |

| SAMPLE | | Blow Counts | Depth in Feet (Below ground surface) | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | RQC/Comments | | | |
|-----------------|-------------------------------|-------------|--------------------------------------|---|---------------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|--|--|--|
| Number and Type | Length, Alt. & Recovered (in) | | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | | | | |
| | | | -1 | Concrete (4") FILL, SAND, some silt, some gravel, moist no odor, lt brown | FILL/ SM | | | 0 | | | | | | | | | |
| | | | -2 | FILL, woodchips, moist, no odor, black | Fill/ Wood | | | | | | | | | | | | |
| | | | -3 | | | | | | | | | | | | | | |
| | | | -4 | FILL, SAND, some silt, some gravel, moist, n dk brown/black | SM | | | 0 | | | | | | | | | |
| | | | -5 | FILL, Wood, some gravel, moist, no odor lt brown - dk brown | FILL/ Wood | | | | | | | | | | | | |
| | | | -6 | | | | | | | | | | | | | | |
| | | | -7 | SAND, some silt, wet, no odor, dk gray | SM | | | 0 | | | | | | | | | |
| | | | -8 | | | | | | | | | | | | | | |
| | | | -9 | | | | | | | | | | | | | | |
| | | | -10 | | | | | 0 | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Firm **AYRES ASSOCIATES**

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Route to:
 Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|---|-----------------|----------------------------|---|---|--|
| Facility/Project Name West Waterfront Redevelopment Project | | | License/Permit/Monitoring Number: | | Boring Number WMW-11 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On_Site Environmental Drilling Inc. | | | Date Drilling Started 7/15/2014 M/D/Y | Date Drilling Completed 7/15/2014 M/D/Y | Drilling Method 4.25" ID Hollow Stem Auger |
| WI Unique Well No. | DNR Well Id No. | Well Name WMW-11 | Final Static Water Level 3.81 | Surface Elevation 583.5 | Borehole Dia. 8-inch |
| Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E NE 1/4 of NE 1/4, of Section 7, T 27 N, R 26 E | | | Lat. _____ | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County Door | County Code 15 | Civil Town/City/or Village City of Sturgeon Bay | |

| SAMPLE | | Blow Counts | Depth in Feet (Below ground surface) | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | ROD/Comments |
|-----------------|------------------------------|-------------|--------------------------------------|---|-------------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Gravel Lot (4") FILL, SAND, some silt, some gravel, moist no odor, gray/brown/red | FILL/ SM | | | 0 | | M | | | | |
| | | | -2 | NO RECOVERY, 2.5 - 5.0 ft | | | | 0 | | W | | | | |
| | | | -5 | Fill, SAND, some silt, some gravel, wet, no odor, red/brown | SM | | | 0 | | W | | | | |
| | | | -9 | **Some organics and odor @ 9.5 ft | | | | 0 | | W | | | | |
| | | | -13 | FILL, some woodchips, moist, no odor dk brown | PT | | | 0 | | W | | | | |
| | | | -14 | SAND, some silt, some gravel, wet, no odor, gray/brown | SM | | | 0 | | W | | | | |
| | | | -16 | EOB @ 15 feet bgs Well set @ 12.7 feet | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: *Jeff Stearn* Firm: **AYRES ASSOCIATES**

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Route to:
 Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| Facility/Project Name West Waterfront Redevelopment Project | | | | License/Permit/Monitoring Number | | | | Boring Number WGP-3 | | | | | | |
|---|------------------------------|-----------------------|--------------------------------------|--|---------|---|--------------|------------------------------------|----------------------|--------------------------------|--------------|------------------|-------|--------------|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On_Site Environmental Drilling Inc. | | | | Date Drilling Started 5/23/2013 M/D/Y | | Date Drilling Completed 5/23/2013 M/D/Y | | Drilling Method Geoprobe | | | | | | |
| WI Unique Well No. | | DNR Well Id No. | | Well Name | | Final Static Water Level | | Surface Elevation | | Borehole Dia. 2-inch | | | | |
| Local Grid Origin L (estimated) <input type="checkbox"/> or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E NE 1/4 of NE 1/4, of Section 7, T 27 N, R 26 E | | | | Lat. _____ " _____ " | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | | | | | | | | |
| Facility Id. | | County Door | | County Code 15 | | Civil Town/City/or Village City of Sturgeon Bay | | | | | | | | |
| SAMPLE | | SOIL PROPERTIES | | | | | | | | | | | | |
| Number and Type | Length Att. & Recovered (ft) | Blow Counts | Depth in feet (Below ground surface) | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RQD/Comments |
| | | | -1 | Asphalt (4") FILL, SAND, some gravel, trace silt, dry, medium grained, no odor, brown | FILL/SP | | | 0 | | D | | | | |
| | | | -2 | FILL, SILT, some fine sand, moist, no odor, black to brown | FILL/ML | | | | | | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | Fill, Concrete | FILL | | | 0 | | M | | | | |
| | | | -5 | | | | | | | | | | | |
| | | | -6 | SAND, silty, wet, medium grained, no odor, brown | SM | | | 0.2 | | W | | | | |
| | | | -7 | some organics at 7 feet, no odor, black | | | | | | | | | | |
| | | | -8 | SAND, trace silt, wet, very fine grained, no odor, gray | SP | | | 0 | | W | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
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| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

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Signature Firm **AYRES ASSOCIATES**

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