

RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS
OF LEE COUNTY, FLORIDA

WHEREAS, an application was filed by the property owner, Troyer Brothers Florida, Inc., to rezone a 1,732.75± acre parcel from Agriculture (AG-2) to Mine Excavation Planned Development (MEPD) in reference to Troyer Brothers; and

WHEREAS, a public hearing before the Lee County Zoning Hearing Examiner, Donna Marie Collins, was advertised and held on June 26, 2018, June 27, 2018, June 28, 2018 and June 29, 2018. On June 29, 2018, the Hearing Examiner continued the hearing until July 31, 2018 with August 28, 2018 and August 31, 2018 as reserved dates. On July 31, 2018, the Hearing Examiner continued the hearing to August 28, 2018. On August 28, 2018, the public hearing was held; and

WHEREAS, the Hearing Examiner gave full consideration to the evidence in the record for Case #DCI2016-00025 and recommended APPROVAL the Request; and

WHEREAS, a second public hearing was advertised and held on August 21, 2019 before the Lee County Board of Commissioners; and,

WHEREAS, the Lee County Board of Commissioners gave full and complete consideration to the recommendations of the staff, the Hearing Examiner, the documents on record and the testimony of all interested persons.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS:

SECTION A. REQUEST

The applicant filed a request to rezone a 1,732.75± acre parcel from AG-2 to MEPD, a mining operation and related accessory uses consisting of an excavation area of 781 acres projected to yield approximately 120 million tons of fill sand and limestone.

The proposed mine depth is a maximum of 110 feet from control elevation or 2 feet above the confining layer, whichever occurs first. The proposed length of the mining operation is 35 years.

The property is located in the Density Reduction/Groundwater Resource (DR/GR) and Wetlands Future Land Use Categories and is legally described in attached Exhibit A. The request is APPROVED, SUBJECT TO the conditions and deviations specified in Sections B and C below.

SECTION B. CONDITIONS:

All references to uses are as defined or listed in the Lee County Land Development Code (LDC).

1. **Mining Plan**

Development of this project must be consistent with the 44-page Mine Site Plan (MSP) (with deviation sheets) for Troyer Brothers Florida, Inc. stamped received on August 30, 2019, and attached hereto as Exhibit C, except as modified by the conditions below.

All subsequent development approvals include the Mine Development Order and Mining Operations Permit(s) must comply with the Lee County Comprehensive Plan (Lee Plan) and LDC except where deviations from the LDC are approved in this zoning resolution.

Changes to the MEPD or Mining Plan are subject to further development approvals.

2. **Permitted Uses and Property Development Regulations**

a. **Permitted Uses:**

Excavation, mining

Accessory Uses to the permitted Excavation, Mining use:

Caretaker's residence (limited to one)

Rock crushing and storage of excavated materials

Truck and tire wash

Truck scales

Vehicle service/fueling area and storage of equipment related to mining operations

Administrative offices

Agriculture, subject to Condition 6

Entrance gates and fences

Essential Services

Essential Service Facilities, Group I

Excavation, water retention

Parking lot, accessory

Signs

b. **Property Development Regulations:**

Maximum Excavation Depth: 110 feet below control elevation or 2 feet above confining layer, whichever occurs first (subject to FDEP permit)

Maximum building height: 50 feet

Maximum accessory structure height: 90 feet

Maximum dragline height: 250 feet

Minimum Parcel Area for Accessory Uses: 10 acres

SETBACKS:

Excavation (Mine pit):

Corkscrew Road: 6,500 feet

Immokalee Road (SR 82): 8,500 feet

Property line (non-residential): 150 feet

Property line (Corkscrew Estates):	1,280 feet
Wetland jurisdiction line:	No less than 50 feet
<u>Blasting:</u>	1,280* feet from Corkscrew Estates property line. (To coincide with edge of excavation/mine pit)
<u>Excavated material (Stockpiles):</u>	No less than 50 feet from preserve areas 1,280* feet from Corkscrew Estates property line
<u>Accessory Structure (Including mobile rock crushers):</u>	
Corkscrew Road:	6,500 feet
Immokalee Road (SR 82):	3,300 feet
Corkscrew Estates:	1,280* feet from property line
Property line (excludes Corkscrew Estates)	
Permanent Processing Plant:	600 feet
Mobile Rock Crushers:	250 feet when an excavation window is provided between the crusher and adjacent property boundary If no window is provided, minimum setback is 600 feet.
Other Accessory Buildings of Structures:	50 feet

No staging, storage or other mining activities may take place in the area located south of the excavation area identified in the mining plans as "not mined."

Setbacks not specifically addressed must comply with LDC Chapter 12.

3. **Hours of Operation**

Hours of operation, *including 24-hour operations*, exclude Sundays and holidays recognized by the State of Florida in s. 110.117 F.S.

Offices:	6:00 AM to 6:00 PM, Monday-Saturday
Crushing at processing plant:	6:00 AM to 6:00 PM, Monday-Saturday

*Scaled to be ±2,000' from nearest existing residential structure in existence at time of MEPD approval.

Equipment Maintenance:	6:00 AM to 10:00 PM, Monday-Saturday, Equipment maintenance within 1,280* feet of the Corkscrew Estates property line is subject to limited hours set forth below
Excavation/Dragline operations:	6:00 AM to 6:00 PM, Monday-Saturday, Saturday operations prohibited within 1,280* feet of the Corkscrew Estates property line
Trucking activity:	6:00 AM to 6:00 PM, Monday-Saturday, Saturday operations prohibited within 1,280* feet of the Corkscrew Estates property line
Mobile crushers:	6:00 AM to 6:00 PM, Monday-Saturday, Saturday operations prohibited within 1,280* feet of the Corkscrew Estates property line

Limited Operations within 1,280* feet of Corkscrew Estates

Equipment maintenance, excavation/dragline operations, trucking activity, and mobile crushers are limited to 6:00 AM to 6:00 PM Monday-Saturday within 1,280 feet of Corkscrew Estates property line.

Twenty-four hour operations

The Mine Operation may operate on a 24-hour basis when contractually obligated to do so by federal, state or local public project contractual requirements. The mine operator must submit contracts for 24-hour operation to the Director of the Department of Community Development prior to commencing 24-hour operations. The contract must include volume of materials and anticipated duration of 24-hour operation. Twenty-four hour operations exclude Sundays and holidays recognized by the State of Florida in s. 110.117 F.S.

Twenty-four hour operations are prohibited within 5,280 feet of Corkscrew Estates property line.

These prohibitions apply to all mine operations except office hours, maintenance of vehicles/equipment in the maintenance building, and crushing at the processing plant.

4. Existing Structures on Mining Plan

The existing structures depicted on the Mine Site Plan may remain as depicted on the Plan. Prior to use/occupation of those structures, the mine operator may be required to secure a local development order, Certificate of Occupancy, or Certificate of Use.

5. Development Access

Access to the planned development is limited to SR 82. Driveway access to Corkscrew Road is prohibited unless approved by amendment to the planned development approvals via the public hearing process.

6. **Agricultural Use**

Agricultural uses must terminate in each phase of the mining operation upon issuance of a mine operations permit for the phase.

7. **Water Use**

Prior to commencing activities approved by the Mine Development Order, the applicant must submit a copy of the SFWMD Water Use Permit authorizing dewatering activities.

8. **On-site Paved Access**

Upon issuance of the Mine Development Order, the mine operator must pave the access road from SR 82 to the location of the "Scales and Truck Tire Wash Down" facility.

9. **Noise**

- a. Fixed-base machinery, excluding conveyor belts, must be located/operated within an enclosed structure equipped with sound dampening baffles and/or walls to minimize off-site noise to the extent reasonably practical.
- b. Openings on structures housing fixed-base machinery must be directed away from residential uses. If possible, structure openings must remain closed while the machinery is in operation.
- c. Field equipment must be equipped with mufflers and other sound baffling equipment consistent with the manufacturer's recommended specifications.

10. **Vehicular/Pedestrian Impacts & Access**

Zoning approval does not address mitigation of vehicular traffic impacts. Accordingly, subsequent development order approvals may be subject to further conditioning.

11. **Lighting**

Light spillage into indigenous preserve and restoration areas is prohibited. For the purpose of this condition, light spillage is defined as 0-foot candles at the edge of preserve and restored areas.

12. **Mining Process/Phases**

The Mining Development Order may reflect phased excavation of the pit with separate Mine Operation Permits for each phase.

The mine operator must record water levels upon commencing each phase of the mine. The operator must record water level data daily, tabulate the data monthly, and submit the data to County staff in a native electronic format on a quarterly basis.

The application for the first mine operation permit must include baseline data on water levels from day monitoring first began up to the permit application date. As each mine operation permit is issued/renewed, the mine operator must submit a summary report of water level data for the time interval of the prior operations permit. The purpose of reporting is to confirm whether mine operations have caused measurable declines in the water table.

13. **Post Mine Use**

The property may not achieve post mine densities and intensities attributable to land that has not been the subject of mining activity.

14. **East Buffer**

The Mine Development Order plans must illustrate the following plantings along the eastern buffer in areas subject to Deviation 1:

Plantings per 100 linear feet:

One hundred native shrubs installed at 12 inches in height;

Fifty native shrubs installed at 24 inches in height;

Five native trees installed at five feet in height with a one-inch caliper and two-foot spread; and

Three native trees installed at ten foot in height with two-inch caliper and four-foot spread.

The mine operator must install shrubs on a two-foot high berm.

County staff must inspect the east buffer prior to approving the mine operations permit for each phase of the MEPD. If upon inspection, the buffer width/content does not comply with the above specifications, the mine operator must install supplemental plantings prior to County approval of each mine operations permit.

15. **Conservation Lands Buffer**

The Mine Development Order must illustrate the 100-foot wide Conservation Lands buffer in areas where agricultural berms, roadways, and exotic vegetation will be removed within onsite indigenous preserves. Indigenous native vegetation remaining in the 100-foot wide buffer area may be credited toward Conservation Lands buffer requirements. See Deviation 6.

16. **Buffer from Corkscrew Estates**

The Mine Development Order must illustrate a 150-foot wide buffer from Corkscrew Estates. If upon removal of exotic vegetation, plant material remaining within the 150-foot buffer does not meet the LDC Chapter 12 buffer for residential, then the mine operator must install additional trees/shrubs to meet the code-required buffer content. Additionally, the Mine Development Order must illustrate a 10' high berm, with a minimum 2 north/south conveyances to allow water flow to the south, in addition to the approximate 3'-4' high berm surrounding the southern edge of excavation (mine pit) ("Existing Southern Berm").

To be maintained with plantings per 100 linear feet of berm consisting of:

One hundred native shrubs installed at 12 inches in height;

Fifty native shrubs installed at 24 inches in height;

Five native trees installed at five feet in height at one-inch caliper and two-foot spread; and

Three native trees installed at ten foot in height with two-inch caliper and four-foot spread

This additional berm will be located immediately south of the Existing Southern Berm of the mine pit. This additional berm, to be installed and certified prior to Mine Operation Permit, will be approximately 100' in width, with a 4:1 slope and approximately 20' width at the top of the berm. As part of the reclamation, the additional berm will be removed.

County staff must inspect the residential buffer prior to approving the mine operations permit for each phase of the MEPD. If the buffer does not comply with the width/content described above, the mine operator must install supplemental trees and shrubs. Supplemental trees and shrubs must be in place prior to County approval of each mine operations permit. See Deviation 7.

17. **Wildlife Habitat**

The mine operator must restore the third wildlife corridor during the reclamation phase with the following plant material every 100 linear feet:

Five native trees and five native palms clustered (trees must be a minimum seven-gallon size; palms four to six feet clear trunk);

Five shrubs every fifty feet (one-gallon size); and

Fifty native grasses (one-gallon size; installed two foot on center). See Deviation 10.

18. **Surface and Groundwater**

a. The mine operator must install rain gauges in locations approved by Lee County Department of Natural Resources (DNR) within 30 days following Mining Development Order approval. The mine operator must read and record data from the gauges daily and submit the data to DNR on quarterly basis or on request.

b. The mine operator must install two staff gauges in each phase to monitor surface water levels at the lowest and highest preconstruction grade elevations. Gauges must be fitted with an electronic data logger capable of taking and recording measurements every six hours, downloaded monthly and provided quarterly to DNR. The mine operator must provide all data electronically and on paper in a format approved by DNR.

c. The mine operator must retain dewatering water on the site. Off-site discharge of dewatering effluent is prohibited.

19. **Baseline Water Quality Trend Analysis**

A report entitled "Hydrogeology of Troyer Brothers Florida, Inc. with a Mining Impact Analysis" dated June 15, 2017 includes a baseline water quality analysis. The Mine

Development Order application must include (1) updated water quality data and trend analysis for the same monitoring wells identified in the referenced report, and (2) a Water Quality Monitoring Plan.

The mine operator must submit updated data on paper and in an electronic data deliverable format approved by DNR.

20. **Flow-way Restoration**

The Mine Development Order application must include a Hydrological Restoration Plan. A key feature of the Plan must be to: (1) re-establish flow-ways to restore historical hydraulic connections near the project, and (2) improve drainage patterns to the extent feasible. The Plan must include re-grading, backfilling ditches, removing berms and, if necessary, adding swales/ditches. Restoration work on the property must progress along with project development. The Hydrological Restoration Plan must include a schedule for restoration work.

The flow-ways must generally originate from the north property boundary and be directed towards proposed restoration areas. The Hydrological Restoration Plan must include calculations and analyses to estimate hydraulic capacity of proposed flow ways and other drainage improvements, while ensuring no adverse impacts to adjacent properties. Calculation and analyses must also compare peak stages and peak flows for pre- and post-development phases at site boundaries for 25 year, 3 day and 100 year, 3 day design storms.

21. **Irrigation and free-flowing wells**

The mine operator must survey the property for free flowing and irrigation wells prior to Mine Development Order approval. The mine operator must permanently plug and abandon wells not part of the groundwater-monitoring network in accordance with applicable regulations within 60 days of ceasing agricultural activities.

SECTION C. DEVIATIONS:

1. Deviation (1), Buffers from Agriculture, seeks relief from the LDC §12-113(o)(1)c. requirement to provide a minimum 50-foot wide buffer at natural grade between agricultural uses and mine property. The deviation would allow a minimum buffer width of 38 feet with a berm and enhanced landscaping where the internal access road is too close to the eastern property boundary, and permit the existing stormwater management system to remain adjacent to the property boundary. This deviation is APPROVED SUBJECT TO Condition 14.
2. Deviation (2), Required Street Access, seeks relief from the LDC §10-291(3) requirement to provide industrial development greater than 10 acres provide more than one means of ingress or egress to the development. The deviation would allow a single access to SR 82. This deviation is APPROVED SUBJECT TO Condition 5.
3. Deviation (3), Reclamation Standards, seeks relief from the LDC §12-119(b)(2) requirement to provide reclamation be completed along the perimeter of the excavation and within the excavated lake. The code also requires a minimum of 25% of the post construction lake (mine footprint) surface area to have a littoral zone composed of created

wetlands to improve water quality and create wildlife habitat. Finally, the code requires the created wetlands to be a minimum width of 50 feet meandering up to 100 feet for an expansive wetland littoral zone. The deviation allows 22.6% of the post-construction lake surface area to consist of a created wetland littoral zone and would allow the meandering width to exceed 100 feet. This deviation is APPROVED.

4. Deviation (4), Reclamation Plan, seeks relief from the LDC §12-119(a)(4) requirement to provide reclamation be completed within 6 months, or when the mining contemplated by a mining operations permit is complete. The deviation allows the mine operator to complete reclamation within 12 months of concluding mining contemplated by a mining operations permit. This deviation is APPROVED.
5. Deviation (5), Setbacks, seeks relief from the LDC §12-113(c)(1)(b) requirement that prohibits excavations within 150 feet of private property lines under separate ownership. The deviation permits the mine operator to remove mining berms and create littoral zones (via excavation) within 100 feet of a private property line under separate ownership during reclamation. This deviation is APPROVED.
6. Deviation (6), Buffers (Conservation Lands), seeks relief from the LDC §12-113(o)(1)d. requirement to provide mining operations to install buffers adjacent to Conservation Lands consisting of the following plantings every 100 linear feet: ten (10) 10-foot trees with 2-inch caliper and 4 foot spread; ten (10) 5-foot trees with one-inch caliper and 2 foot spread; and 100 native shrubs 24 inches in height seeded with native herbaceous plants. The deviation allows existing native vegetation in the indigenous habitats to remain. This deviation is APPROVED SUBJECT TO Condition 15.
7. Deviation (7), Buffers (Conservation Lands), seek relief from the LDC §12-113(o)(1)d. requirement to provide mining operations to install a 150-foot wide buffer adjacent to Conservation Lands consisting of the following plantings every 100 linear feet: ten (10) 10-foot trees with 2-inch caliper and 4 foot spread, ten (10) 5-foot trees with one-inch caliper and 2-foot spread and 100 native shrubs 24 inches in height and seeded with native herbaceous plants. The deviation allows herbaceous wetland restoration to occur prior to mining operations permit. This deviation is APPROVED.
8. Deviation (8), Buffers (Corkscrew Estates), seeks relief from the LDC §12-113(o)(1)b. requirement to provide residential buffers to be a minimum 150 feet in width, maintained at natural grade, consisting of the following plantings every 100 linear feet: 15 ten-foot trees with 2-inch caliper and 4-foot spread, 10 five-foot trees with one-inch caliper and 2-foot spread and 150 native shrubs 24 inches in height. The code also requires 50% of required trees to be native pines; 30% to be large native canopy trees (e.g. live oaks); and 20% to be native palms or appropriate native wetland vegetation. The deviation allows credit for indigenous vegetation remaining after removal of exotic vegetation. This deviation is APPROVED SUBJECT TO Condition 16.
9. Deviation (9), Wildlife Habitat, seeks relief from the LDC §12-113(p)(2) requirement to provide the mine operator to plant a 300-foot wide wildlife habitat prior Mine Operation Permit approval. The deviation allows the mine operator to plant a 3,349-foot wide second wildlife area/corridor upon completion of mining operations. This deviation is APPROVED.

10. Deviation (10), Wildlife Habitat, seeks relief from the LDC §12-113(p)(2) requirement to provide the mine operator to plant a 300-foot wide wildlife habitat prior Mine Operation Permit approval. The planted habitat must consist of a continuous native shrub hedge (33 shrubs per 100 linear feet; minimum three-gallon container size) along the perimeter of the habitat area and a minimum of 20 native trees per 100 linear foot clustered (minimum ten trees per cluster; minimum 7-gallon container size) within the habitat area to provide cover. The deviation allows a 1,233-foot wide area to be planted with native grasses, 1 tree every 100 linear feet and one shrub every 50 feet. This deviation is APPROVED SUBJECT TO Condition 17.

SECTION D. EXHIBITS:

The following exhibits are attached to this resolution and incorporated by reference:

- Exhibit A: Legal description of the property
- Exhibit B: Zoning Map (with the subject parcel indicated)
- Exhibit C: The Master Concept Plan

SECTION E. FINDINGS AND CONCLUSIONS:

1. The proposed MEPD zoning district, *as conditioned*:
 - a. Complies with the Lee Plan; (Goals 4, 7, 10, 60, 61, 63, 69, 123, 125, 158);
 - b. Meets the LDC and other applicable County regulations or qualifies for deviations;
 - c. Is compatible with existing and planned uses in the surrounding area;
 - d. Will provide access sufficient to support the proposed development intensity; (Lee Plan Policy 7.1.3);
 - e. The expected impacts on transportation facilities will be addressed by County regulations and conditions of approval; (Lee Plan Policies 7.1.1, 7.1.2, 7.1.3, 7.1.5, 39.1.1);
 - f. Will not adversely affect environmentally critical or sensitive areas and natural resources; (Lee Plan Policy 125.1.3); and
 - g. Will be served by urban services including paved roads, fire, EMS and police even though not located in an urban area. (Lee Plan Policies 7.1.3, 7.1.5).
2. The proposed mix of uses is appropriate at the proposed location. (Lee Plan Goals 7, 10, 33, 158, Objective 10.1, Policies 1.4.5, 7.1.3, 10.1.1, LDC §34-145(d)(4)a.2.a)).
3. The recommended conditions provide sufficient safeguards to the public interest and are reasonably related to the impacts on the public's interest expected from the proposed development. (Lee Plan Objective 69.3, Policies 5.1.5, 7.1.8, 10.2.4, 135.9.5, 135.9.6, LDC §§ 34-145(d)(4)a.2.b), 34-932).

4. The requested deviations enhance achievement of the objectives of the planned development and preserves/promotes the intent of the LDC to protect the public health, safety and welfare. (LDC §34-145(d)(4)a.2.c)).
5. The proposed mining activity will not create/cause adverse effects from dust, noise, lighting and odor on agricultural, residential, conservation activities, or other nearby land uses. (Lee Plan Policies 7.1.1.2, 7.1.8, 10.2.4, LDC §34-145(d)(4)a.2.d)1)).
6. The Mine Site Plan and conditions of approval considers protection of surrounding private and publicly owned conservation and preservation lands. (Lee Plan Policies 10.1.5, 10.2.5, 123.1.5, LDC §34-145(d)(4)a.2.d)2)).
7. The MEPD zoning district, as conditioned:
 - a. Maintains wet and dry season water level elevations and hydro-periods necessary to restore/sustain water resources and adjacent wetland hydrology on and off-site during and upon completion of the mining operations; (Lee Plan Goals 60, 61, LDC §34-145(d)(4)a.2.d)3)i.);
 - b. Preserves, restores and enhances natural flow ways deemed important for local and regional water resource management; (Lee Plan Goals 125, 126, LDC §34-145(d)(4)a.2.d.3)ii);
 - c. Preserves indigenous areas that are occupied wildlife habitat to the maximum extent possible; (Lee Plan Policies 10.2.5, 123.2.8, 123.3.1, 123.10. 3, LDC §34-145(d)(4)a.2.d)3)iii.); and
 - d. Provides interconnection to off-site preserve areas and conservation lands via indigenous preservation areas, flow way preservation or restoration, and planted buffer areas. (Lee Plan Policies 10.1.5, 10.2.5, 123.1.5, LDC §34-145(d)(4)a.2.d)3)iv.)).
8. The MEPD Mine Site Plan is designed to:
 - a. Avoid adverse effects to existing agricultural, residential or conservation activities in the surrounding areas; (Lee Plan Goal 10, Objective 69.3, Policies 7.1.8, 10.2.4, 135.9.5, 135.9.6, LDC §34-145(d)(4)a.2.d)4)i.);
 - b. Avoid adverse effects from dust noise, lighting, or odor on surrounding land uses and natural resources; (Lee Plan Policies 7.1.8, 10.1.4, 10.2.4, 125.1.3, LDC 34-145(d)(4)a.2.d)4)ii.); and
 - c. Mimic or restore the natural system pre-disturbed water budget to the maximum extent practicable. (LDC 34-145(d)(4)a.2.d)4)iii.).
9. The MEPD complies with traffic mitigation standards set forth in LDC §12-116.
10. The MEPD complies with reclamation standards set forth in LDC §12-119. (Lee Plan Policy 10.2.5, LDC §34-145(d)(4)a.2.d)).

SECTION F. SCRIVENER'S ERRORS

The Board intends that this resolution can be renumbered or relettered and typographical errors that do not affect the intent and are consistent with the Board's action can be corrected with the authorization of the County Manager or his designee, without the need for a public hearing.

Commissioner Pendergrass made a motion to adopt the foregoing resolution, seconded by Commissioner Manning. The vote was as follows:

John Manning	Aye
Cecil Pendergrass	Aye
Raymond Sandelli	Aye
Brian Hamman	Aye
Frank Mann	Nay

DULY PASSED AND ADOPTED this 21st day of August 2019.

ATTEST:
LINDA DOGGETT, CLERK

BY: Melissa Butler
Deputy Clerk

BOARD OF COUNTY COMMISSIONERS
OF LEE COUNTY, FLORIDA

BY: Brian Hamman
Brian Hamman, Acting Chair/Vice Chair



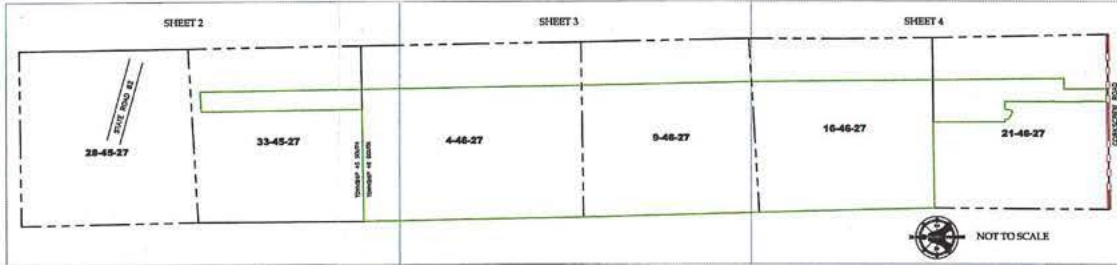
APPROVED AS TO FORM FOR THE
RELIANCE OF LEE COUNTY ONLY

Michael D. Jacob
Michael D. Jacob
Deputy County Attorney
County Attorney's Office

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**BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN
SECTION 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST &
SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA**

KEY MAP



DESCRIPTION:
MEPD

A PORTION OF THE EAST 607.88 FEET OF THE WEST THREE-QUARTERS (W 3/4) OF SECTION 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST, AND THE WEST THREE-QUARTERS (W 3/4) OF SECTIONS 9, AND 16, TOWNSHIP 46 SOUTH, RANGE 27 EAST, AND A PORTION OF THE WEST-HALF (W 1/2) OF THE EAST-HALF (E 1/2) OF SECTION 21, SAID TOWNSHIP 46 SOUTH, RANGE 27 EAST, ALL IN LEE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 33; THENCE N.86°41'19"E, ALONG THE NORTH LINE OF SAID SECTION 33, A DISTANCE OF 3329.82 FEET TO AN INTERSECTION WITH THE WEST LINE OF THE SAID EAST 607.88 FEET (AS MEASURED AT RIGHT ANGLES) OF THE WEST THREE-QUARTERS OF SECTION 33; THENCE S.0°40'10"E, ALONG SAID WEST LINE, A DISTANCE OF 292.47 FEET TO THE POINT-OF-BEGINNING OF THIS DESCRIPTION; THENCE N.86°41'19"E, ALONG A LINE LYING 292.16 FEET SOUTH OF (AS MEASURED AT RIGHT ANGLES) AND PARALLEL TO THE SAID NORTH LINE OF SECTION 33, A DISTANCE OF 607.80 FEET TO AN INTERSECTION WITH THE EAST LINE OF THE SAID WEST THREE-QUARTERS OF SECTION 33; THENCE ALONG THE EAST LINE OF THE SAID WEST THREE-QUARTERS OF SECTION 33, AND THE EAST LINES OF THE WEST THREE-QUARTERS OF SAID SECTIONS 4, 9, 16, AND 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST FOR THE NEXT SIX (6) COURSES; S.0°40'08"E, A DISTANCE OF 4983.35 FEET TO AN INTERSECTION WITH THE TOWNSHIP LINE COMMON TO SAID SECTIONS 33 AND 4; THENCE S.0°57'59"E, A DISTANCE OF 6629.37 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 4 AND 9; THENCE S.0°11'31"10"E, A DISTANCE OF 5128.82 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 9 AND 16; THENCE S.0°29'23"E, A DISTANCE OF 5491.79 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 16 AND 21; THENCE S.0°49'42"E, CONTINUING ALONG SAID EAST LINE OF THE WEST THREE-QUARTERS, A DISTANCE OF 2634.57 FEET; THENCE S.0°49'12"E, A DISTANCE OF 1317.24 FEET TO THE NORTHEAST CORNER OF THE EAST-HALF OF THE EAST-HALF OF THE SOUTHWEST-QUARTER, OF THE SOUTHEAST-QUARTER OF SAID SECTION 21; THENCE S.89°20'45"W, ALONG THE FRACTIONAL LINE, A DISTANCE OF 327.82 FEET TO THE NORTHWEST CORNER OF THE SAID EAST-HALF OF THE EAST-HALF OF THE SOUTHWEST-QUARTER OF THE SOUTHEAST QUARTER; THENCE S.0°46'52"E, ALONG THE WEST LINE OF THE SAID EAST-HALF OF THE EAST-HALF OF THE SOUTHWEST-QUARTER, OF THE SOUTHEAST-QUARTER, A DISTANCE OF 1268.07 FEET TO AN INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY LINE OF CONCRETE ROAD; THENCE S.89°22'54"W, ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 368.71 FEET; THENCE N.0°49'26"E, LEAVING SAID RIGHT-OF-WAY LINE, A DISTANCE OF 684.03 FEET; THENCE N.48°33'40"W, A DISTANCE OF 27.16 FEET; THENCE N.00°16'53"W, A DISTANCE OF 888.76 FEET; THENCE S.7°20'40"E, A DISTANCE OF 32.29 FEET; THENCE N.18°10'23"W, A DISTANCE OF 54.29 FEET; THENCE N.05°08'24"W, A DISTANCE OF 44.07 FEET; THENCE N.02°33'44"W, A DISTANCE OF 112.69 FEET; THENCE N.00°18'26"W, A DISTANCE OF 618.31 FEET; THENCE N.00°01'07"W, A DISTANCE OF 662.66 FEET; THENCE S.89°58'53"W, A DISTANCE OF 242.89 FEET; THENCE S.10°43'15"E, A DISTANCE OF 33.22 FEET; THENCE S.07°58'33"W, A DISTANCE OF 58.34 FEET; THENCE S.07°40'21"W, A DISTANCE OF 58.56 FEET; THENCE S.22°42'57"W, A DISTANCE OF 54.52 FEET; THENCE S.62°45'45"W, A DISTANCE OF 41.45 FEET; THENCE N.76°50'14"W, A DISTANCE OF 53.91 FEET; THENCE N.56°19'48"W, A DISTANCE OF 64.41 FEET; THENCE N.60°26'28"W, A DISTANCE OF 47.51 FEET; THENCE N.53°22'31"W, A DISTANCE OF 114.11 FEET; THENCE N.00°11'53"E, A DISTANCE OF 49.31 FEET; THENCE N.20°52'09"E, A DISTANCE OF 30.98 FEET; THENCE N.89°39'58"W, A DISTANCE OF 82.03 FEET TO AN INTERSECTION WITH THE NORTH-SOUTH QUARTER SECTION LINE OF SAID SECTION 21; THENCE N.0°25'41"W, ALONG SAID QUARTER LINE, A DISTANCE OF 2157.05 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 16 AND 21; THENCE S.89°14'53"W, ALONG SAID COMMON LINE, A DISTANCE OF 2568.89 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 16 AND 21; THENCE N.01°22'13"W, ALONG THE WEST LINE OF SECTION 16, A DISTANCE OF 2654.10 FEET TO THE WEST QUARTER CORNER OF SAID SECTION 16; THENCE N.01°22'13"W, CONTINUING ALONG SAID SECTION LINE, A DISTANCE OF 2483.09 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 9 AND 16; THENCE N.01°31'33"W, ALONG THE WEST LINE OF SAID SECTION 9, A DISTANCE OF 2654.15 FEET TO THE WEST QUARTER CORNER OF SAID SECTION 9; THENCE N.01°30'59"W, CONTINUING ALONG SAID WEST LINE OF SECTION 9, A DISTANCE OF 2483.09 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 4 AND 9; THENCE N.01°02'09"W, ALONG THE WEST LINE OF SAID SECTION 4, A DISTANCE OF 2653.93 FEET TO THE WEST QUARTER CORNER OF SECTION 4; THENCE N.01°03'10"W, CONTINUING ALONG SAID WEST LINE OF SECTION 4, A DISTANCE OF 3971.21 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 4 AND 33; THENCE N.86°41'19"E, ALONG THE SAID TOWNSHIP LINE, A DISTANCE OF 3366.80 FEET TO THE SOUTHWEST CORNER OF THE SAID EAST 607.88 FEET OF THE WEST THREE-QUARTERS OF SAID SECTION 33; THENCE N.0°40'10"E, ALONG THE WEST LINE OF THE SAID EAST 607.88 FEET OF THE WEST THREE-QUARTERS, A DISTANCE OF 458.57 FEET TO THE SAID POINT-OF-BEGINNING OF THIS DESCRIPTION.

CONTAINING 1732.75 ACRES, MORE OR LESS.

PREPARED FOR:
TROYER BROTHERS FLORIDA, INC.
GRANT FRKIN PEARSON, P.A.
CHICAGO TITLE INSURANCE COMPANY
LEE COUNTY BOARD OF COUNTY COMMISSIONERS

NOTES:

- BEARING SHOWN HEREON ARE BASED UPON THE NORTH LINE OF SECTION 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST, LEE COUNTY, FLORIDA, HAVING A BEARING OF N 0°-41'-19" E.
- ALL DISTANCES, BEARINGS AND COORDINATES (IF SHOWN) ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, AND TO CORRECT FROM STATE ROAD OR A.L. DISTANCES SHOWN ARE U.S. SURVEY FEET OR FEET AS SHOWN THEREIN.
- EASEMENTS SHOWN HEREON ARE PER RECORDED PLAT AND/OR DEEDS. ALL OTHER EASEMENTS SHOWN ARE PER TITLE SEARCH AND/OR TITLE COMMITMENT POLICY DOCUMENTS PROVIDED BY THE CLIENT. ALL EASEMENTS SHOWN ARE IDENTIFIED AS TO THEIR ORIGIN.
- THE RIGHT-OF-WAY LINE FOR STATE ROAD 82 WAS ESTABLISHED USING THE STATE OF FLORIDA, STATE ROAD DEPARTMENT RIGHT OF WAY MAP FOR SECTION 1007-101 ROAD NO. 82, SHEET 1 & 2, 5/4/1978-10/27 RIGHT OF CENTERLINE-100' LEFT OF CENTERLINE.
- THE RIGHT-OF-WAY LINE FOR CONCRETE ROAD WAS ESTABLISHED USING EXISTING REMEDIATION FORMS AND VARIOUS DEEDS RECORDED IN SECTION 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST. NO DOCUMENTATION WAS PROVIDED TO THE SURVEYOR PERTAINING TO THE WIDTH OF CONCRETE ROAD OTHER THAN THE RECORDED DESCRIPTION "LESS CONCRETE RIGHT OF WAY".
- ALL BEARINGS AND DISTANCES SHOWN HEREON ARE FIELD MEASUREMENTS UNLESS OTHERWISE NOTED.
- SUBJECT PARCELS SHOWN HEREON CONTAINS 1,732.75 ACRES, MORE OR LESS.
- IMPROVEMENTS AND FENCES NOT SHOWN.
- THE PROPERTY SHOWN HEREON LIES IN THE AREA DESIGNATED ON THE NATIONAL FLOOD INSURANCE PROGRAM-FLOOD INSURANCE RATE MAP NUMBER 1310124P AND 1310124P-1, FOR LEE COUNTY UNINCORPORATED AREAS. COMMUNITY NUMBER 1310124, PANELS 0410 AND 0420, BOTH HIGH-PRINTED PANELS, BUFFER 1/4", BOTH DATES AUGUST 08, 2008. NO SPECIAL FLOOD HAZARD AREAS DESIGNATED.

BASED UPON THE TITLE CERTIFICATION DATED MARCH 08, 2017 PREPARED BY DAVID G. BUDD, ATTORNEY AT LAW, OF GRANT FRKIN PEARSON, P.A., THE PROPERTY IS ENCUMBERED BY RECORD WITH THE FOLLOWING:

NO.	EXCEPTION DESCRIPTION	AFFECTS ON PARCEL
2.	RESERVATIONS IN THAT CERTAIN DEED RECORDED IN DEED BOOK 27, PAGE 2, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS NOT PLOTTED
3.	RIGHT OF WAY EASEMENT GRANTED TO FLORIDA POWER & LIGHT COMPANY BY INSTRUMENTS RECORDED IN OFFICIAL RECORDS BOOK 291, PAGE 206; OFFICIAL RECORDS BOOK 293, PAGE 679; OFFICIAL RECORDS BOOK 780, PAGE 570; AND OFFICIAL RECORDS BOOK 780, PAGE 574; ALL OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS AND PLOTTED
4.	RIGHT OF WAY EASEMENT GRANTED TO LEE COUNTY ELECTRIC CO-OP BY INSTRUMENT RECORDED IN OFFICIAL RECORDS BOOK 1047, PAGE 1350, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS AND PLOTTED
5.	RIGHT OF WAY EASEMENT GRANTED TO LEE COUNTY ELECTRIC CO-OP BY INSTRUMENT RECORDED IN OFFICIAL RECORDS BOOK 1054, PAGE 766, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS AND PLOTTED
6.	MORTGAGE FROM TROYER BROTHERS FLORIDA, INC., A FLORIDA CORPORATION, TO BABO AGRIFINANCE, INC. A DELAWARE CORPORATION, AS AGENT FOR ITSELF AND THE OTHER SECURED PARTIES (DEFINED THEREIN), RECORDED AS INSTRUMENT NUMBER 2015000148612, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS NOT PLOTTED
7.	UCC-1 FINANCING STATEMENT FROM TROYER BROTHERS, INC. IN FAVOR OF BABO AGRIFINANCE, INC. RECORDED AS INSTRUMENT NO. 2015000149965, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS NOT PLOTTED

LEGEND:

- (C) = CALCULATED DATA
- (D) = DEED DATA
- (F) = FIELD DATA
- (FOOT) = FLORIDA DEPARTMENT OF TRANSPORTATION
- (C.C.R.) = CERTIFIED CORNER RECORD
- CB = CHORD BEARING
- CD = CHORD DISTANCE
- FCM = FOUND CONCRETE MONUMENT
- FLWP = FOUND LIGHTER WOOD POST
- FIR = FOUND IRON ROD
- FIRC = FOUND IRON ROD WITH CAP
- FIP = FOUND IRON PIPE
- ID = IDENTIFICATION
- L = ARC LENGTH
- N/A = NOT APPLICABLE
- N/F = NOW OR FORMERLY
- OW = OVERHEAD WIRE
- ORB = OFFICIAL RECORD BOOK
- FIRC = FOUND IRON PIPE WITH CAP
- FPKD = FOUND PARKER KALON NAIL AND DISK
- PB = PLAT BOOK
- P.O.B. = POINT OF BEGINNING
- PL = PAGE
- P.O.C. = POINT OF COMMENCEMENT
- PT = POINT OF TANGENCY
- R = RADIUS
- R/W = RIGHT OF WAY
- SIRC = SET IRON ROD 5/8" WITH CAP "AM ENG LB 3114"
- FPKD = FOUND PARKER KALON NAIL AND DISK
- STA. = STATION
- CL = CENTER LINE
- = PROPERTY LINE
- - - = FENCE LINE

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AIM Engineering & Surveying, Inc.
2161 FOWLER STREET - SUITE 100
FORT MYERS, FLORIDA 33901
(239) 332-4569 (800) 226-4569
FAX (855) 475-7233 L.B. #3114

NO.	DATE	BY	REVISION DESCRIPTION
1	1-22-17	JMS	ROUTED APPROVEMENTS, ADDED
2			U.S. COORDINATES, ADDED
3			LOGIC TO CERTIFICATION
4			
5			
6			
7			
8			
9			
10			

NOT VALID WITHOUT THE SIGNATURE AND SEAL OF THE LICENSED SURVEYOR AND MAPLEADER

BOUNDARY SURVEY
PREPARED BY: DAVID G. BUDD
DATE: 03/09/17

LAST DATE OF FIELD WORK:
March 7, 2017

FIELD BOOK	DATE	DATE
CP, MA, JB	03-09-17	
DRAMA	JMS	03-09-17
CHECKED	DT, GP	03-09-17

SURVEY RECORD

FIELD BOOK	PAGE		
CP, MA, JB			
DRAMA			
LOT	BLOCK	LINE	N/A
SECTION	TOWNSHIP	RANGE	4, 9, 16, 21 45 SOUTH 27 EAST
SUBDIVISION NAME			
N/A			
FIELD BOOK	PAGE	N/A	N/A
COUNTY	LEE COUNTY		
CLIENT NAME	TROYER BROTHERS FLORIDA, INC.		
PROJECT SHORT TITLE	BOUNDARY SURVEY		
PLAN		SHEET	1
FILE NAME	07-9412_MFD_1-17-2017.dwg		
PROJECT NUMBER	07-9412	OF	4

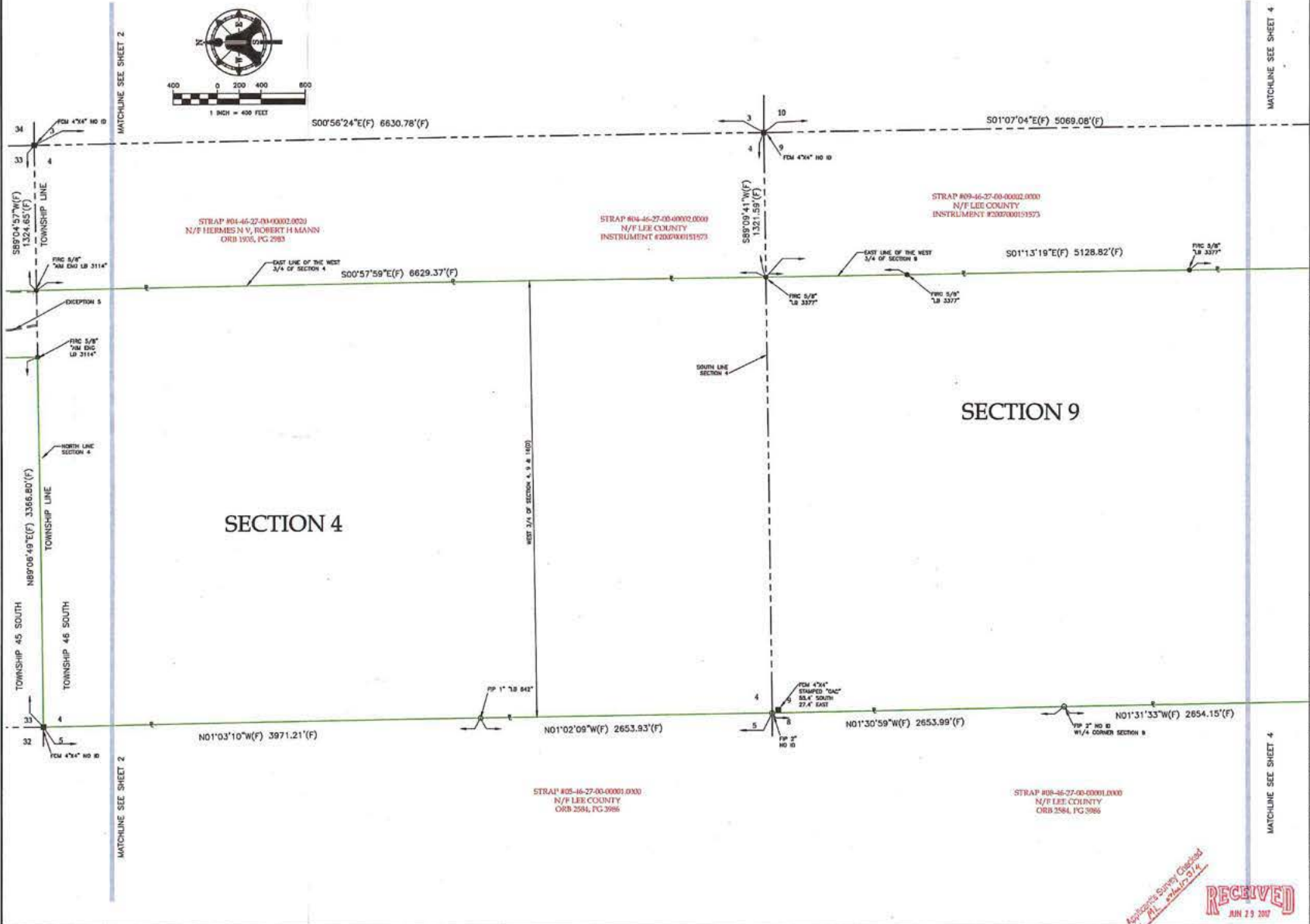
RECEIVED
JUN 29 2017

Applicant's Survey Checked
By: [Signature]

DCI 2016-00025

EXHIBIT A

**BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN
SECTIONS 28 & 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST
SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA**



STRAP #04-46-27-00-00002.0000
N/F HERMES N V, ROBERT H MANN
ORB 1905, PG 2983

STRAP #04-46-27-00-00002.0000
N/F LEE COUNTY
INSTRUMENT #200900191573

STRAP #09-46-27-00-00002.0000
N/F LEE COUNTY
INSTRUMENT #200900191573

STRAP #05-46-27-00-00001.0000
N/F LEE COUNTY
ORB 2584, PG 3986

STRAP #09-46-27-00-00001.0000
N/F LEE COUNTY
ORB 2584, PG 3986

MATCHLINE SEE SHEET 4

MATCHLINE SEE SHEET 4

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AIM Engineering & Surveying, Inc.
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(239) 332-4569 (800) 228-4569
FAX (855) 475-7233 L.B. #3114

NO.	DATE	BY	REVISION DESCRIPTION
1			See Sheet 1 for all Revisions
2			
3			
4			
5			
6			
7			
8			
9			
10			

NOT VALID WITHOUT THE SIGNATURE AND SEAL OF THE LICENSED SURVEYOR AND MAPPER.

BOUNDARY SURVEY
PREPARED BY:
AIM Engineering and Surveying, Inc.

SEE SHEET 1
DATE:
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA LICENSE NO. 3468

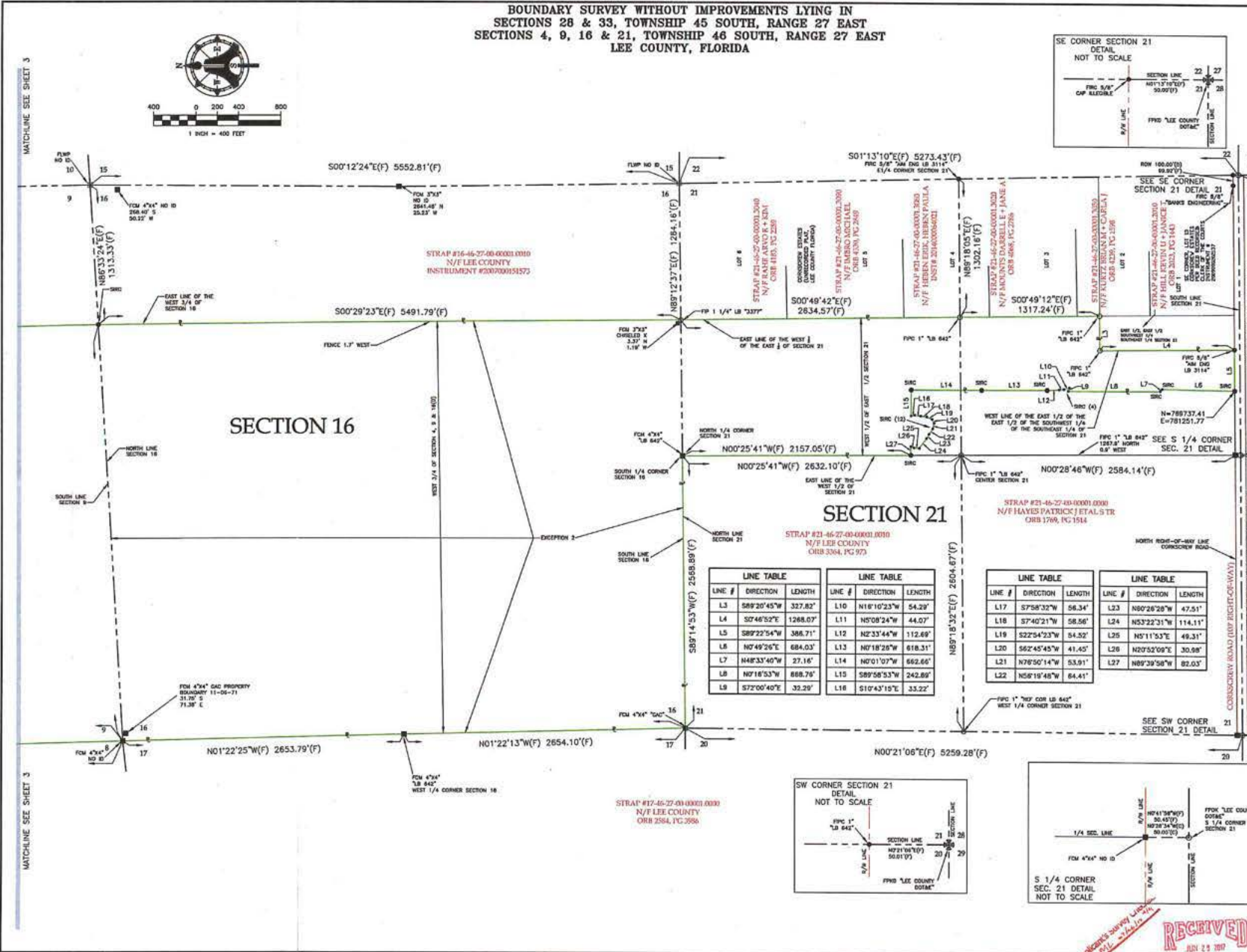
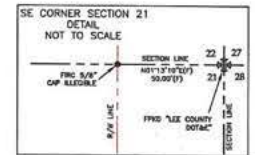
LAST DATE OF FIELD WORK:
March 7, 2017

FIELD NO.	CP, MA, JB	DATE	03-07-17
DRAWN	JMS	DATE	03-08-17
CHECKED	DT, BP	DATE	03-08-17

SURVEY RECORD			
FIELD BOOK	SEE SHEET	PAGE	
LOT:	N/A	BLOCK:	N/A
SECTION:	4, 9, 16, 21	TOWNSHIP:	45 SOUTH
		RANGE:	27 EAST
SUBDIVISION NAME:	N/A		
PLAT BOOK:	N/A	PAGE:	N/A
COUNTY:	LEE COUNTY		
CLIENT NAME:	TROYER BROTHERS FLORIDA, INC.		
PROJECT SHORT TITLE:	BOUNDARY SURVEY		
PLAT:			
FILE NAME:	07-9412_MFD0_3-17-2017.dwg		
PROJECT NUMBER:	07-9412	SHEET:	3 OF 4

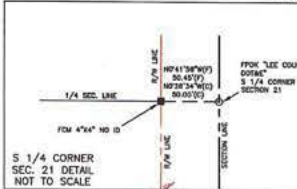
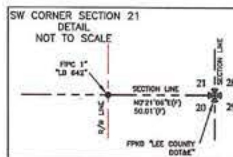
RECEIVED
JUN 23 2017
COMMUNITY DEVELOPMENT

**BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN
SECTIONS 28 & 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST
SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA**



LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L3	S89°20'45"W	327.82'	L10	N18°10'23"W	54.29'
L4	S0°46'52"E	1268.07'	L11	N5°08'24"W	44.07'
L5	S89°22'54"W	386.71'	L12	N2°33'44"W	112.69'
L6	N0°49'26"E	684.03'	L13	N0°18'28"W	618.31'
L7	N48°33'40"W	27.16'	L14	N0°01'07"W	662.66'
L8	N0°18'53"W	668.79'	L15	S89°58'53"W	242.89'
L9	S72°00'40"E	33.29'	L16	S10°43'19"E	33.22'

LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L17	S75°58'32"W	58.34'	L23	N0°28'28"W	47.51'
L18	S7°40'21"W	58.56'	L24	N53°22'31"W	114.11'
L19	S22°54'23"W	54.52'	L25	N0°11'53"E	49.31'
L20	S62°45'45"W	41.45'	L26	N02°53'09"E	30.98'
L21	N76°50'14"W	53.91'	L27	N89°30'58"W	82.03'



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BOUNDARY SURVEYING, INC.
SEE SHEET 1
RUB L WALTER, FIRM PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA LICENSE NO. 5588

LAST DATE OF FIELD WORK: March 07, 2017

FIELD BOOK: 03-07-17
DRAWN: JME DATE: 03-08-17
CHECKED: DT, EP DATE: 03-08-17

SURVEY RECORD

LOT: N/A BLOCK: N/A UNIT: N/A

SECTION: 16, 21 TOWNSHIP: 46 SOUTH RANGE: 27 EAST

SUBDIVISION NAME: N/A

PLAT BOOK: N/A PAGE: N/A

COUNTY: LEE COUNTY

CLIENT NAME: TROYER BROTHERS FLORIDA, INC.

PROJECT SHORT TITLE: BOUNDARY SURVEY

FILE NAME: 07-9412_MEPD_3-17-2017.dwg
PROJECT NUMBER: 07-9412

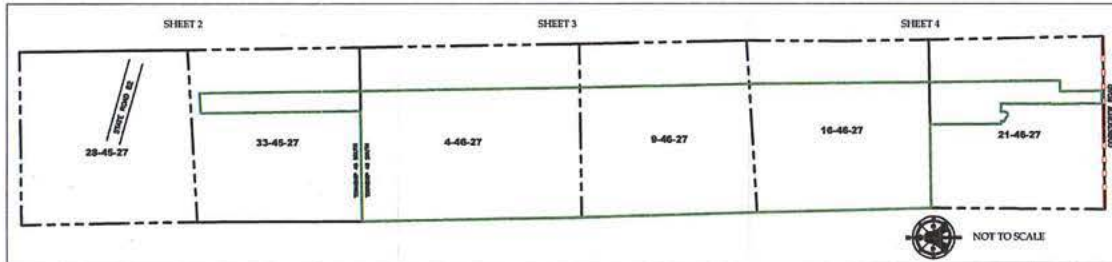
4 OF 4



DCI 2016-00025

BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN SECTION 33, TOWNSHIP 46 SOUTH, RANGE 27 EAST & SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST LEE COUNTY, FLORIDA

KEY MAP



DESCRIPTION:

MEFO
A PORTION OF THE EAST 607.88 FEET OF THE WEST THREE-QUARTERS (W 3/4) OF SECTION 33, TOWNSHIP 46 SOUTH, RANGE 27 EAST, AND THE WEST THREE-QUARTERS (W 3/4) OF SECTIONS 4, 9, AND 16, TOWNSHIP 46 SOUTH, RANGE 27 EAST, AND A PORTION OF THE WEST-HALF (W 1/2) OF THE EAST-HALF (E 1/2) OF SECTION 21, SAID TOWNSHIP 46 SOUTH, RANGE 27 EAST, ALL IN LEE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 33; THENCE N.86°41'10"E, ALONG THE NORTH LINE OF SAID SECTION 33, A DISTANCE OF 3329.82 FEET TO AN INTERSECTION WITH THE WEST LINE OF THE SAID EAST 607.88 FEET (AS COLLECTED) OF THE WEST THREE-QUARTERS OF SECTION 33; THENCE S.0°40'10"E, ALONG SAID WEST LINE, A DISTANCE OF 292.47 FEET TO THE POINT-OF-BEGINNING OF THIS DESCRIPTION; THENCE N.86°41'10"E, ALONG A LINE LYING 292.16 FEET SOUTH OF (AS MEASURED AT RIGHT ANGLES) TO THE SAID NORTH LINE OF SECTION 33, A DISTANCE OF 607.90 FEET TO AN INTERSECTION WITH THE EAST LINE OF THE SAID WEST THREE-QUARTERS OF SECTION 33; THENCE ALONG THE EAST LINE OF THE SAID WEST THREE-QUARTERS OF SECTION 33, AND THE EAST LINES OF THE WEST THREE-QUARTERS OF SAID SECTIONS 4, 9, 16, AND 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST FOR THE NEXT SIX (6) COURSES; S.0°40'00"E, A DISTANCE OF 4683.33 FEET TO AN INTERSECTION WITH THE TOWNSHIP LINE COMMON TO SAID SECTIONS 33 AND 4; THENCE S.0°57'59"E, A DISTANCE OF 6629.37 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 4 AND 9; THENCE S.01°13'19"E, A DISTANCE OF 5128.82 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 9 AND 16; THENCE S.0°29'23"E, A DISTANCE OF 5491.79 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 16 AND 21; THENCE S.0°49'42"E, CONTINUING ALONG SAID EAST LINE OF THE WEST THREE-QUARTERS, A DISTANCE OF 2634.57 FEET; THENCE S.0°49'12"E, A DISTANCE OF 1317.24 FEET TO THE NORTHWEST CORNER OF THE EAST-HALF OF THE EAST-HALF OF THE SOUTHWEST-QUARTER OF THE SOUTHWEST-QUARTER OF SAID SECTION 21; THENCE S.69°20'45"W, ALONG THE FRACTIONAL LINE, A DISTANCE OF 327.82 FEET TO THE NORTHWEST CORNER OF THE SAID EAST-HALF OF THE EAST-HALF OF THE SOUTHWEST-QUARTER OF SAID SECTION 21; THENCE S.0°40'00"E, ALONG THE WEST LINE OF THE SAID EAST-HALF OF THE EAST-HALF OF THE SOUTHWEST-QUARTER OF THE SOUTHWEST-QUARTER, A DISTANCE OF 1288.07 FEET TO AN INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY LINE OF CORNSCREW ROAD; THENCE S.89°22'44"W, ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 368.71 FEET; THENCE N.0°49'26"E, LEAVING SAID RIGHT-OF-WAY LINE, A DISTANCE OF 684.03 FEET; THENCE N.48°33'40"W, A DISTANCE OF 27.16 FEET; THENCE N.00°16'53"W, A DISTANCE OF 868.76 FEET; THENCE S.72°00'40"E, A DISTANCE OF 32.29 FEET; THENCE N.16°10'23"W, A DISTANCE OF 54.29 FEET; THENCE N.03°09'24"W, A DISTANCE OF 44.07 FEET; THENCE S.10°43'15"E, A DISTANCE OF 33.32 FEET; THENCE S.07°58'32"E, A DISTANCE OF 56.34 FEET; THENCE S.07°40'21"W, A DISTANCE OF 58.58 FEET; THENCE S.22°54'23"W, A DISTANCE OF 54.52 FEET; THENCE S.82°45'45"W, A DISTANCE OF 41.45 FEET; THENCE N.76°50'14"W, A DISTANCE OF 53.91 FEET; THENCE N.56°19'48"W, A DISTANCE OF 64.41 FEET; THENCE N.60°28'28"W, A DISTANCE OF 47.51 FEET; THENCE N.53°22'31"W, A DISTANCE OF 114.11 FEET; THENCE N.05°11'53"E, A DISTANCE OF 49.31 FEET; THENCE N.20°52'09"E, A DISTANCE OF 39.98 FEET; THENCE N.89°39'58"W, A DISTANCE OF 82.03 FEET TO AN INTERSECTION WITH THE NORTH-SOUTH QUARTER SECTION LINE OF SAID SECTION 21; THENCE N.02°25'41"W, ALONG SAID QUARTER LINE, A DISTANCE OF 2157.05 FEET TO AN INTERSECTION WITH THE SECTION LINE COMMON TO SAID SECTIONS 16 AND 21; THENCE S.81°14'53"W, ALONG SAID COMMON LINE, A DISTANCE OF 2568.89 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 16 AND 21; THENCE N.01°22'13"W, ALONG THE WEST LINE OF SECTION 16, A DISTANCE OF 2984.10 FEET TO THE WEST QUARTER CORNER OF SAID SECTION 16; THENCE N.01°22'13"W, CONTINUING ALONG SAID SECTION LINE, A DISTANCE OF 2653.79 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 9 AND 16; THENCE N.01°31'33"W, ALONG THE WEST LINE OF SAID SECTION 9, A DISTANCE OF 2654.15 FEET TO THE WEST QUARTER CORNER OF SAID SECTION 9; THENCE N.01°30'59"W, CONTINUING ALONG SAID SECTION LINE, A DISTANCE OF 2653.99 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 4 AND 9; THENCE N.01°02'09"W, ALONG THE WEST LINE OF SAID SECTION 4, A DISTANCE OF 2653.93 FEET TO THE WEST QUARTER CORNER OF SECTION 4; THENCE N.01°03'10"W, CONTINUING ALONG SAID WEST SECTION LINE, A DISTANCE OF 3971.21 FEET TO THE SECTION CORNER COMMON TO SAID SECTIONS 4 AND 33; THENCE N.89°04'49"E, ALONG THE SAID TOWNSHIP LINE, A DISTANCE OF 3368.80 FEET TO THE SOUTHWEST CORNER OF THE SAID EAST 607.88 FEET OF THE WEST THREE-QUARTERS OF SAID SECTION 33; THENCE N.0°40'10"W, ALONG THE WEST LINE OF THE SAID EAST 607.88 FEET OF THE WEST THREE-QUARTERS, A DISTANCE OF 4683.57 FEET TO THE SAID POINT-OF-BEGINNING OF THIS DESCRIPTION.

CONTAINING 1732.75 ACRES, MORE OR LESS.

NOTES:

1. BEARING AND DISTANCE MEASUREMENTS ARE BASED UPON THE NORTH LINE OF SECTION 33, TOWNSHIP 46 SOUTH, RANGE 27 EAST, LEE COUNTY, FLORIDA HAVING A BEARING OF 8 86°41'10" P. C.
2. ALL DISTANCES, BEARINGS AND COORDINATES (IF SHOWN) ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, WITH AN EPOCH DATE 2008. ALL DISTANCES SHOWN ARE U.S. SURVEY FEET OR DECIMALS THEREOF.
3. EASEMENTS SHOWN HEREIN ARE FOR RECORDS PLAT AND SHOULD BEING. ALL OTHER EASEMENTS SHOWN ARE PER TITLE SEARCH AND/OR TITLE COMMITMENT POLICY DOCUMENTS PROVIDED BY THE CLIENT. ALL EASEMENTS SHOWN ARE IDENTIFIED AS TO THEIR ORIGIN.
4. THE RIGHT-OF-WAY LINE FOR STATE ROAD 86 WAS ESTABLISHED USING THE STATE OF FLORIDA, STATE ROAD DEPARTMENT RIGHT OF WAY MAP FOR SECTION 1807-101 ROAD NO. 86, SHEETS 1 & D & 9/4 WITHIN 100' RIGHT OF CENTERLINE-100' LEFT OF CENTERLINE.
5. THE RIGHT-OF-WAY LINE FOR CORNSCREW ROAD WAS ESTABLISHED USING THE EXISTING DEMONSTRATION PERM AND HAS BEEN BEING RECORDED IN SECTION 34, TOWNSHIP 46 SOUTH, RANGE 27 EAST. NO DOCUMENTATION HAS BEEN PROVIDED TO THE SURVEYOR PERTAINING TO THE VERTIC OF CORNSCREW ROAD OTHER THAN THE RECORDED DESCRIPTION. LEAS CONVEYED RIGHT OF WAY.
6. ALL BEARINGS AND DISTANCES SHOWN HEREIN ARE FIELD MEASUREMENTS UNLESS OTHERWISE NOTED.
7. SUBJECT PARCEL SHOWN HEREIN CONTAINS 1,732.75 ACRES, MORE OR LESS.
8. IMPROVEMENTS AND POSES NOT SHOWN.
9. THE PROPERTY SHOWN HEREIN LIES IN THE AREA NOTIFIED ON THE NATIONAL FLOOD INSURANCE PROGRAM-FLOOD HAZARD MAPS HAVE BEEN REVISIONS (REVISED) AND RECLASSIFIED FOR LEE COUNTY UNINCORPORATED AREAS. COMMUNITY NUMBER 16014A, PANELS 0490 AND 0495, BOTH HIGH-PRINTED PANELS, SUFFIX F; BOTH DATES AUGUST 26, 2008. NO SPECIAL FLOOD HAZARD AREAS NOTICED.

BASED UPON THE TITLE CERTIFICATION DATED MARCH 08, 2017 PREPARED BY DAVID G. BUDD, ATTORNEY AT LAW, OF GRANT TITLER PEARSON, P.A., THE PROPERTY IS ENCUMBERED BY RECORD WITH THE FOLLOWING:

NO.	EXCEPTION DESCRIPTION	AFFECTS ON PARCEL
2.	RESERVATIONS IN THAT CERTAIN DEED RECORDED IN DEED BOOK 27, PAGE 2, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS NOT PLOTTED
3.	RIGHT OF WAY EASEMENT GRANTED TO FLORIDA POWER & LIGHT COMPANY BY INSTRUMENTS RECORDED IN OFFICIAL RECORDS BOOK 291, PAGE 208; OFFICIAL RECORDS BOOK 283, PAGE 876; OFFICIAL RECORDS BOOK 780, PAGE 576; AND OFFICIAL RECORDS BOOK 780, PAGE 574; ALL OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS AND PLOTTED
4.	RIGHT OF WAY EASEMENT GRANTED TO LEE COUNTY ELECTRIC CO-OP BY INSTRUMENTS RECORDED IN OFFICIAL RECORDS BOOK 1047, PAGE 1350; OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS AND PLOTTED
5.	RIGHT OF WAY EASEMENT GRANTED TO LEE COUNTY ELECTRIC CO-OP BY INSTRUMENT RECORDED IN OFFICIAL RECORDS BOOK 1054, PAGE 766, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS AND PLOTTED
6.	MORTGAGE FROM TROYER BROTHERS FLORIDA, INC., A FLORIDA CORPORATION, TO NABO AGRIFINANCE, INC., A DELAWARE CORPORATION, AS AGENT FOR ITSELF AND THE OTHER SECURED PARTIES (DEFINED THEREIN), RECORDED AS INSTRUMENT NUMBER 2015000148612, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS NOT PLOTTED
7.	DCI-1 FINANCING STATEMENT FROM TROYER BROTHERS, INC. IN FAVOR OF NABO AGRIFINANCE, INC. RECORDED AS INSTRUMENT NO. 2015000148965, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.	AFFECTS NOT PLOTTED

LEGEND:

- (C) = CALCULATED DATA
- (D) = DEED DATA
- (F) = FIELD DATA
- (FOOT) = FLORIDA DEPARTMENT OF TRANSPORTATION
- C.C.R.C. = CERTIFIED CORNER RECORD
- CD = CHORD DISTANCE
- FCM = FOUND CONCRETE MONUMENT
- FLMP = FOUND LIGHTER WOOD POST
- FRW = FOUND IRON ROD
- FRP = FOUND IRON ROD WITH CAP
- FRP = FOUND IRON PIPE
- ID = IDENTIFICATION
- L = ARC LENGTH
- N/A = NOT APPLICABLE
- N/O = NOW OR FORMERLY
- OWR = OVERHEAD WIRE
- ORF = OFFICIAL RECORD BOOK
- FRPC = FOUND IRON PIPE WITH CAP
- FRPD = FOUND PAPER KALON NAIL AND DISK
- FB = FOUND IRON PIPE
- P.B. = POINT OF BEGINNING
- P.C. = POINT OF COMMENCEMENT
- PT = POINT OF TANGENCY
- R = RADIUS
- R/W = RIGHT OF WAY
- ST = SET IRON ROD 5/8" WITH CAP "MIN ENG LB 3114"
- STA = STATION
- TOL = TOWER POLE
- PR = PROPERTY LINE
- F = FENCE LINE

Applicant's Legal Checked by 014 07/06/17 1-4

PREPARED FOR:
TROYER BROTHERS FLORIDA, INC.
GRANT TITLER PEARSON, P.A.
CHICAGO TITLE INSURANCE COMPANY
LEE COUNTY BOARD OF COUNTY COMMISSIONERS

CERTIFIED TO: TROYER BROTHERS FLORIDA, INC. - GRANT TITLER PEARSON, P.A. - CHICAGO TITLE INSURANCE COMPANY - LEE COUNTY BOARD OF COUNTY COMMISSIONERS

THIS SURVEY IS PREPARED BY CONTRACT AND IS CERTIFIED ONLY TO THE PERSON LISTED ABOVE AND ONLY FOR THIS PARTICULAR TRANSACTION. ANY USE OR REUSE OF THIS SURVEY FOR ANY OTHER TRANSACTION WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE SURVEYOR EXPRESSLY DISCLAIMS ANY CERTIFICATION TO ANY PARTIES OTHER THAN THE PERSONS LISTED ABOVE. THE SURVEYOR ASSUMES NO LIABILITY FOR ANY MISTAKES OR OMISSIONS IN THIS SURVEY.

AIM Engineering & Surveying, Inc.
2161 FOWLER STREET - SUITE 100
FORT MYERS, FLORIDA 33901
(239) 332-4569 (800) 226-4569
FAX (855) 475-7233 L.B. # 3114

NO.	DATE	BY	REVISION DESCRIPTION	ADDED
1	11-29-17	JAC	REVISION IMPROVEMENTS	ADDED
2			U.P. COORDINATES ADDED	
3			LEAD TO CERTIFICATION	

RECEIVED
JUN 29 2017

COMMUNITY DEVELOPMENT

NOT VALID WITHOUT THE SIGNATURE AND SEAL OF A LICENSED SURVEYOR AND MAPPER.

BOUNDARY SURVEY
PREPARED BY
AIM ENGINEERING AND SURVEYING, INC.

4/9/17

THIS IS A PUBLIC SURVEY AND MAPPER
FLORIDA LICENSE NO. 5688

LAST DATE OF FIELD WORK: March 7, 2017

DRAWN BY: JAC, CP, MA, JR DATE: 03-07-17

CHECKED BY: JMS DATE: 03-08-17

CREATED BY: JAC, CP DATE: 03-08-17

SURVEY RECORD

FIELD BOOK: [] PAGE: []

LOT: [] BLOCK: [] UNIT: []

SECTION: N/A TOWNSHIP: 46 S RANGE: 27 EAST

SUBSECTION: 4, 9, 16, 21

P.O.C.: N/A PAGE: N/A

COUNTY: LEE COUNTY

CLIENT NAME: TROYER BROTHERS FLORIDA, INC.

PROJECT SHEET TITLE: BOUNDARY SURVEY

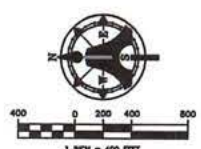
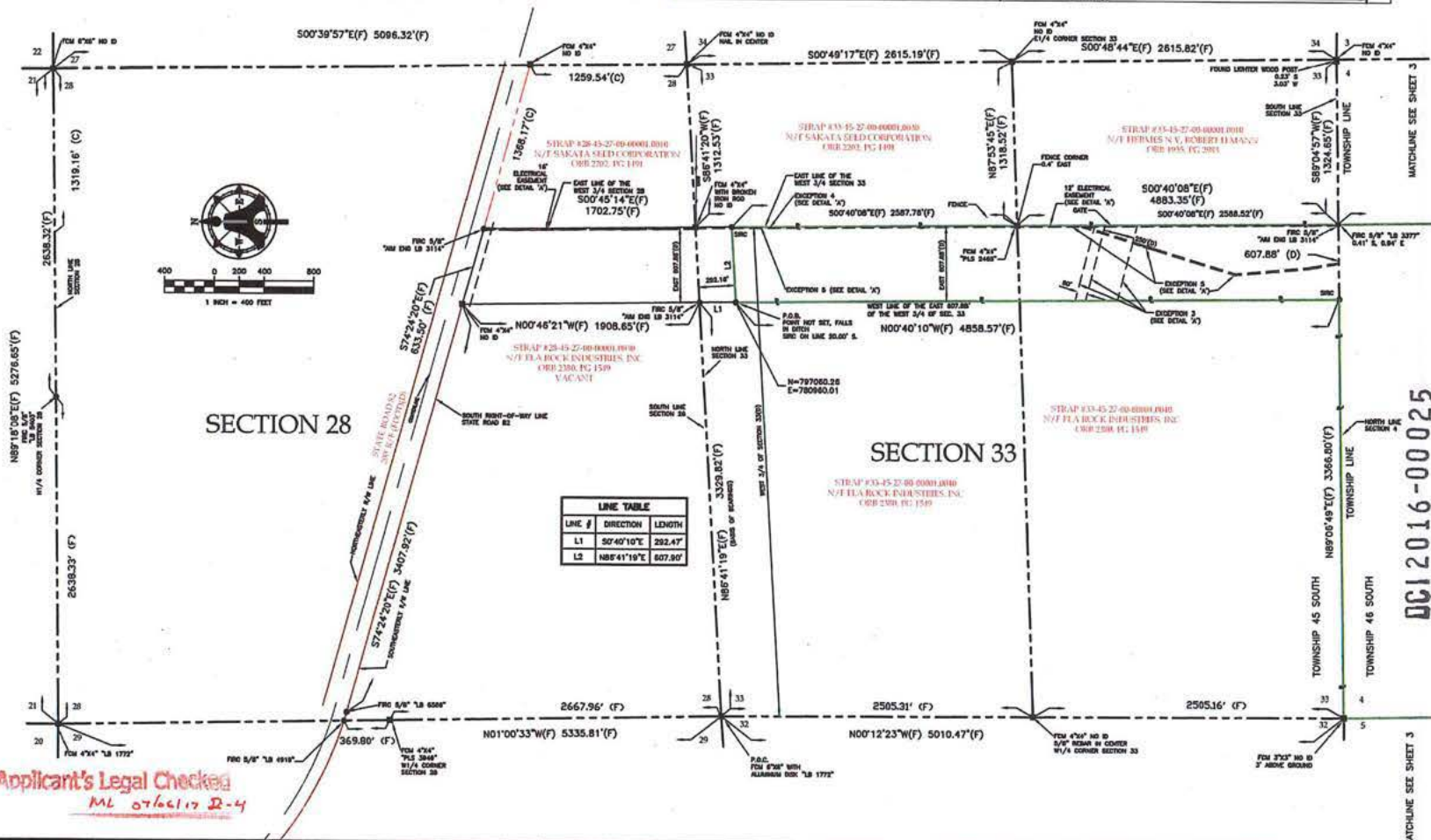
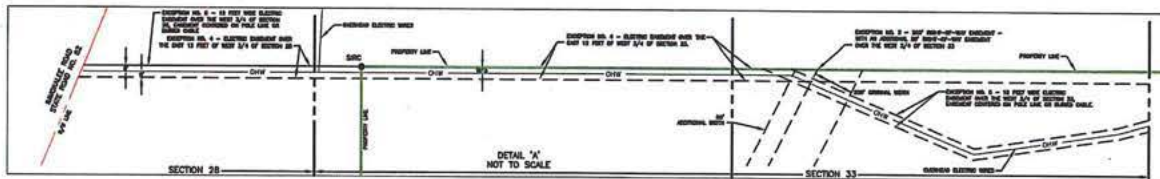
FILE NAME: 07-8412_MFD_3-17-2017.dwg

PROJECT NUMBER: 07-8412

SHEET: 1

OF 4

**BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN
SECTION 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST &
SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA**



LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S0°40'10\"/>	
L2	N86°41'19\"/>	

Applicant's Legal Checked
ML 07/06/17 2-4

RECITIVIA
COMMUNITY DEVELOPMENT
JUN 29 2017

AM Engineering & Surveying, Inc.
2161 FOWLER STREET - SUITE 100
FORT MYERS, FLORIDA 33901
(239) 332-4569 (800) 226-4569
FAX (855) 475-7233 L.B. #3114

THIS SURVEY IS PREPARED BY CONSENT ONLY TO THE PEOPLE LISTED ABOVE AND ONLY FOR THE PURPOSES STATED. ANY REPRODUCTION OF THIS SURVEY WITHOUT THE EXPRESS PERMISSION OF THE SURVEYOR IS PROHIBITED. THE SURVEYOR EXPRESSLY DISCLAIMS ANY CERTIFICATION TO ANY PARTIES OTHER THAN THE CLIENT. NO INDICATIONS, NO PERSON OTHER THAN THOSE LISTED SHOULD RELY UPON THIS SURVEY.

SEE SHEET 1 for all Revisions

NO.	DATE	REVISION DESCRIPTION

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL MASTER SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

BOUNDARY SURVEY
PREPARED BY:
AM ENGINEERING AND SURVEYING, INC.

SEE SHEET 1
DATE
JOB L. COUNTY, FROM FOR JOB AND MAPPER
FLORIDA LICENSE NO. 5568

LAST DATE OF FIELD WORK:
March 7, 2017

FIELD NO.	CP, MA, OR	DATE
		03-07-17

DRAWN	JMS	DATE
		03-09-17

CHECKED	DT, BP	DATE
		03-05-17

SURVEY RECORD

FIELD BOOK:	PAGE:

LOT:	BLOCK:	UNIT:
N/A	N/A	N/A

SECTION:	TOWNSHIP:	RANGE:
4, 9, 16, 21	45 SOUTH 46 SOUTH	27 EAST

SUBDIVISION NAME:
N/A

PLAT BOOK:
N/A

COUNTY:
LEE COUNTY

CLIENT FIRM:
TROYER BROTHERS FLORIDA, INC.

PROJECT SHORT TITLE:
BOUNDARY SURVEY

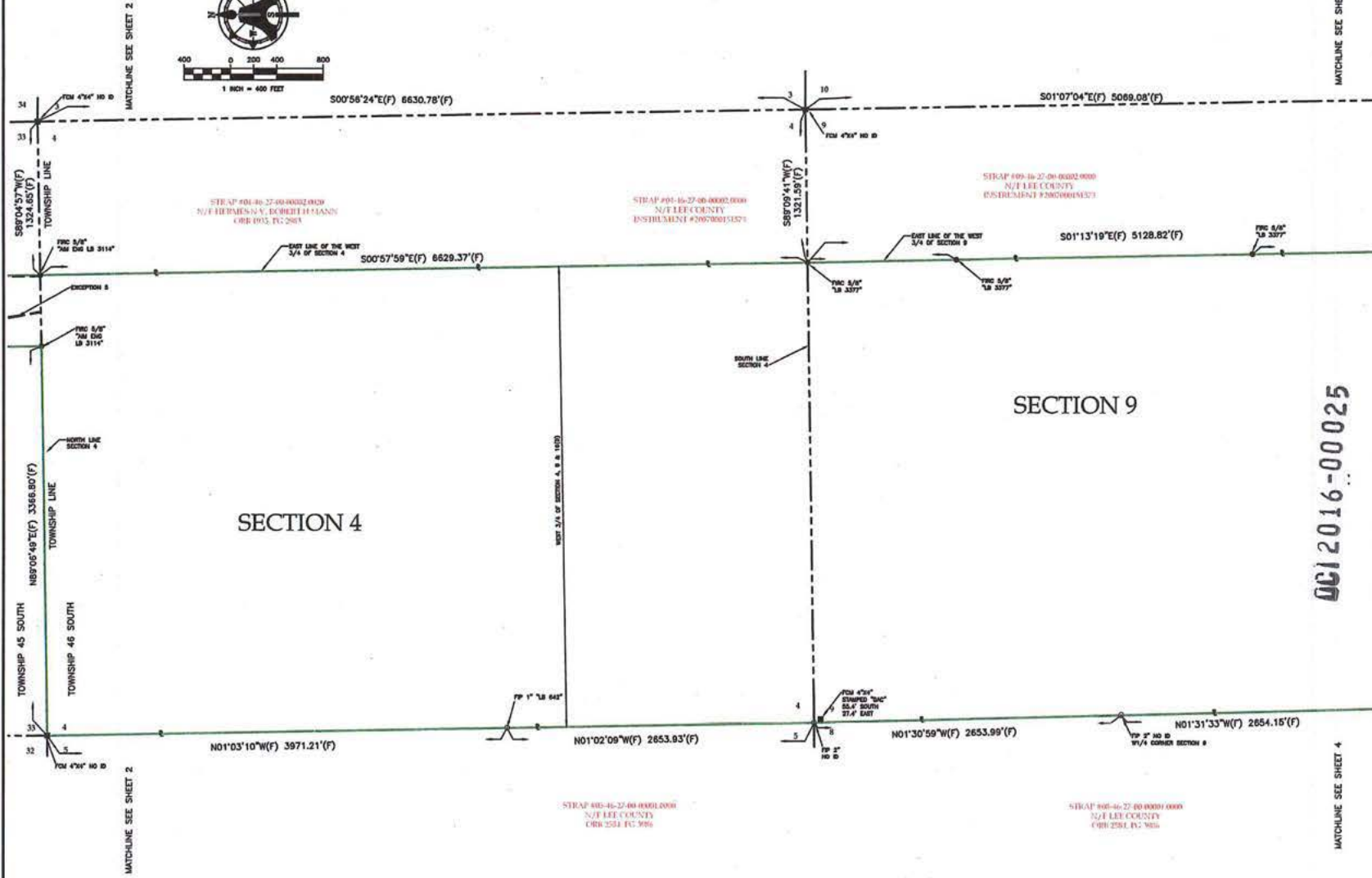
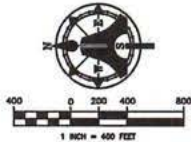
PLAT:	SHEET:
	2

FILE NAME:
07-9412_M070_3-17-2017.dwg

PROJECT NUMBER:
07-9412

OF 4

**BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN
SECTIONS 28 & 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST
SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA**



SECTION 4

SECTION 9

0612016-00025

Applicant's Legal Checked
by ML 02/06/17 5-4

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AIM Engineering & Surveying, Inc.
2161 FOWLER STREET - SUITE 100
FORT MYERS, FLORIDA 33901
(239) 332-4569 (800) 226-4569
FAX (855) 475-7233 L.B. #3114

NO.	DATE	BY	REVISION DESCRIPTION
1			See Sheet 1 for all Revisions
2			
3			
4			
5			
6			
7			
8			
9			
10			

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL STAMP OF A FLORIDA LICENSED SURVEYOR AND MAPPER

BOUNDARY SURVEY
PREPARED BY:
AIM ENGINEERING AND SURVEYING, INC.

SEE SHEET 1
DATE:
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA LICENSE NO. 5685

LAST DATE OF FIELD WORK:
March 7, 2017

FIELD BOOK: CP, MA, JR DATE: 03-07-17
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CHECKED: DE, BP DATE: 03-08-17

SURVEY RECORD

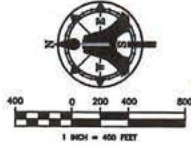
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4, 9, 16, 21 TOWNSHIP: 46 SOUTH RANGE: 27 EAST
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PLAT BOOK: N/A PAGE: N/A
COUNTY: LEE COUNTY

CLIENT NAME:
TROYER BROTHERS FLORIDA, INC.

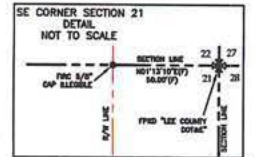
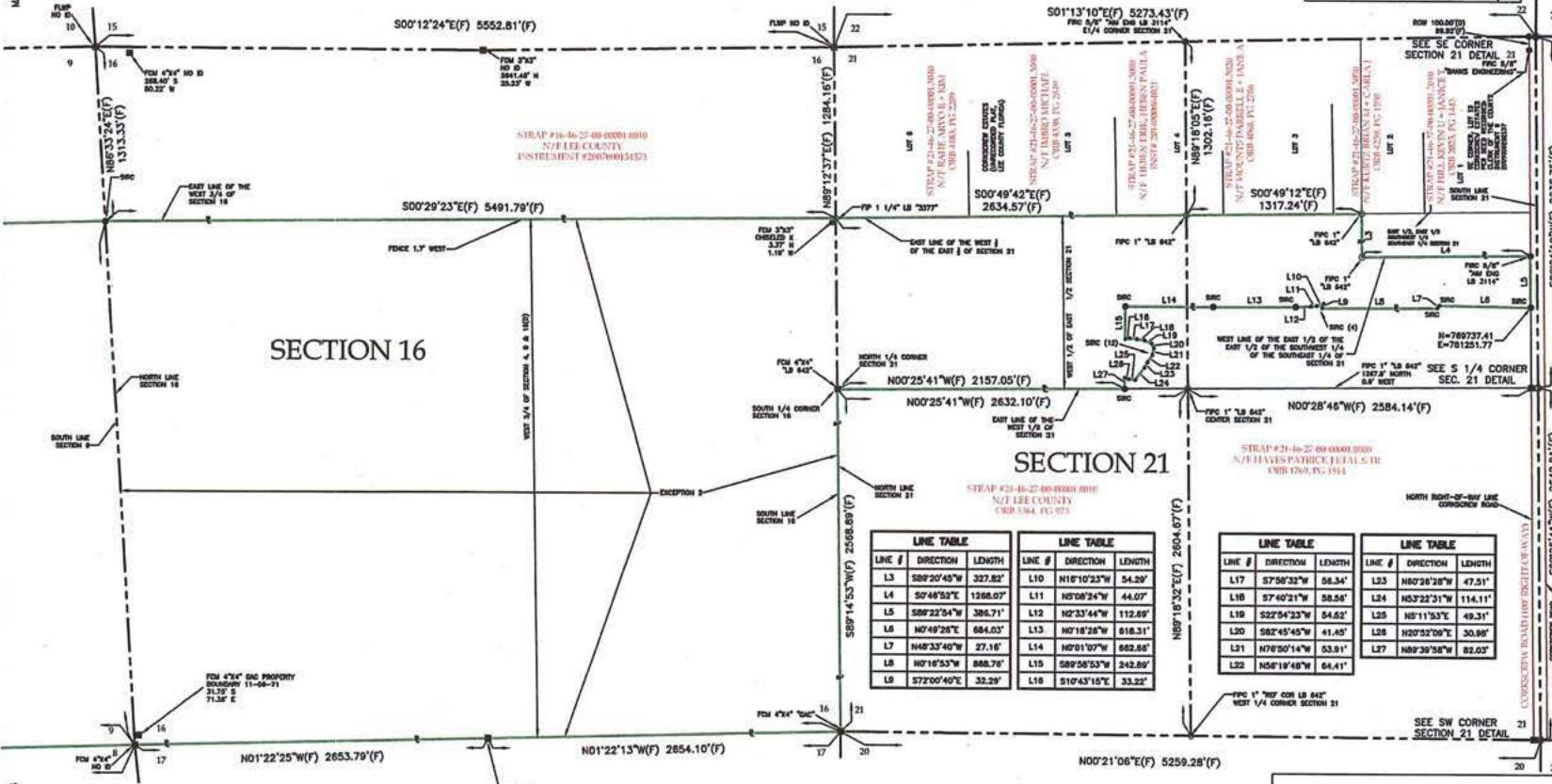
PROJECT SHORT TITLE:
BOUNDARY SURVEY

PLAN: SHEET:
FILE NAME: 07-9412_MFD_3-17-2017.dwg
PROJECT NUMBER: 07-9412 OF 4

**BOUNDARY SURVEY WITHOUT IMPROVEMENTS LYING IN
SECTIONS 20 & 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST
SECTIONS 4, 9, 16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST
LEE COUNTY, FLORIDA**

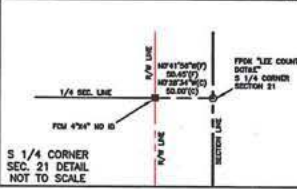
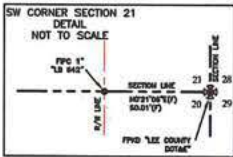


MATCHLINE SEE SHEET 3



LINE TABLE			LINE TABLE		
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LINE TABLE			LINE TABLE		
LINE #	DIRECTION	LENGTH	LINE #	DIRECTION	LENGTH
L17	S7°58'32\"/>				



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AIM Engineering & Surveying, Inc.
2161 FOWLER STREET - SUITE 100
FORT MYERS, FLORIDA 33901-1569
(239) 332-4569 (800) 226-1569
FAX (855) 475-7233 LB. #3114

RECEIVED
COMMUNITY DEVELOPMENT
JUN 29 2017

DATE	REVISION DESCRIPTION

NOT VALID WITHOUT THE SIGNATURE AND SEAL OF A LICENSED SURVEYOR AND LAMP.

BOUNDARY SURVEY
PREPARED BY: AIM ENGINEERING AND SURVEYING, INC.
SEE SHEET 1
DATE: 03-08-17
BY: BOB L. POTTER, P.E., S.S., AND WALTER FLORIDA LICENSE NO. 5628

LAST DATE OF FIELD WORK: March 07, 2017

FIELD BY: BOB L. POTTER, P.E., MA, JR. DATE: 03-07-17
DRAWN: DATE: 03-08-17
CHECKED: DT, SSS DATE: 03-08-17

FIELD BOOK: PAGE:

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SECTION:	4, 9, 16, 21	TOWNSHIP:	45 SOUTH	RANGE:	27 EAST

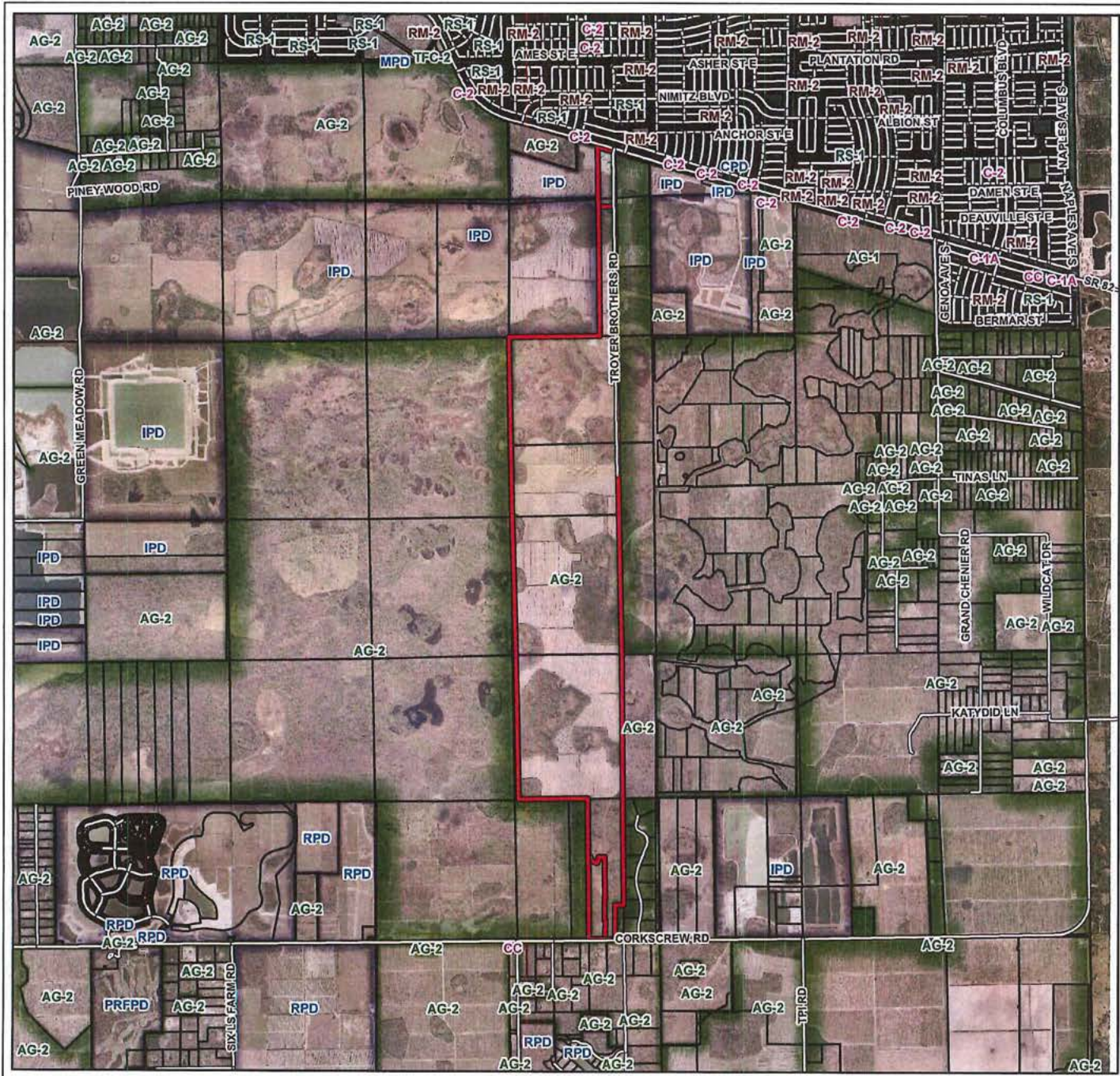
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PLAT BOOK: N/A PAGE: N/A
COUNTY: LEE COUNTY
CLIENT NAME: TROYER BROTHERS FLORIDA, INC.
PROJECT SHORT TITLE: BOUNDARY SURVEY

PLAN SHEET: 4
FILE NAME: 07-9412_MPD_3-17-2017.dwg
PROJECT NUMBER: 07-9412 OF 4

Applicant's Legal Checked
ML 07/06/17 4-4



DCI 2016-00025

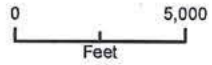
EXHIBIT B



DCI2016-00025 Zoning

Legend

-  Subject Parcel
-  Parcel Boundary



MINING PLANS

TROYER BROTHERS FLORIDA, INC.

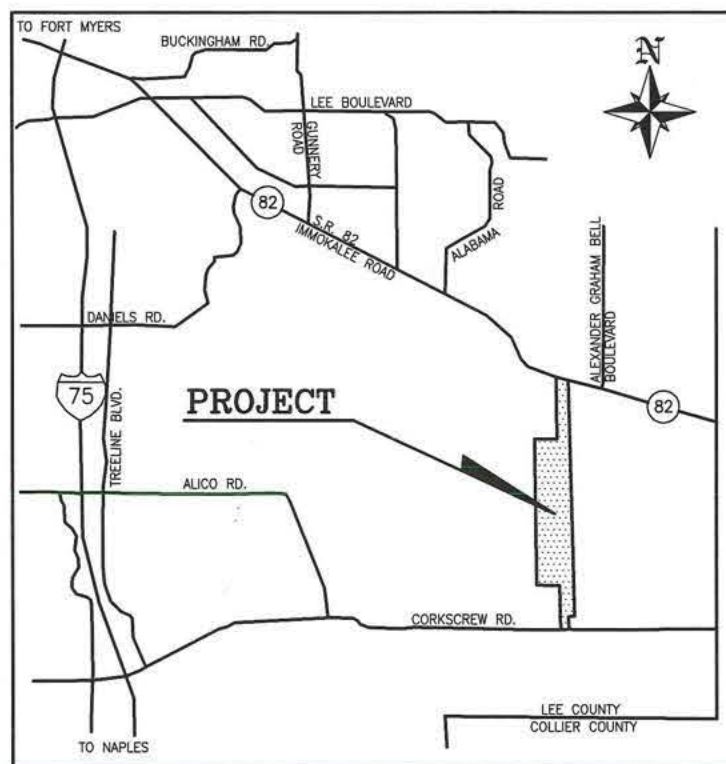
SECTIONS 28 & 33, TOWNSHIP 45 SOUTH, RANGE 27 EAST & SECTIONS 4,9,16 & 21, TOWNSHIP 46 SOUTH, RANGE 27 EAST SOUTHEAST LEE COUNTY, FLORIDA

PROJECT TEAM

ENGINEER: AIM ENGINEERING & SURVEYING, INC.
 SURVEYOR: AIM ENGINEERING & SURVEYING, INC.
 PLANNING: MORRIS - DEPEW & ASSOCIATES
 LANDSCAPE ARCHITECTURE: MORRIS - DEPEW & ASSOCIATES
 ENVIRONMENTAL: W. DEXTER BENDER & ASSOCIATES
 HYDROLOGIST: WSP - PARSONS AND BRINCKERHOFF

INDEX OF SHEETS

1. COVER SHEET
2. EXISTING CONDITIONS
3. MINING & EXCAVATION PLAN - OVERALL VIEW
4. MINING & EXCAVATION PLAN (1)
5. MINING & EXCAVATION PLAN (2)
6. MINING & EXCAVATION PLAN (3)
7. DEWATERING PLAN
8. EROSION CONTROL PLAN - BMP
9. SURFACE WATER MANAGEMENT PLAN
10. KEY MAP
11. PLAN & PROFILE STA. 300+00 TO STA. 289+00
12. PLAN & PROFILE STA. 289+00 TO STA. 276+35
13. PLAN & PROFILE STA. 276+35 TO STA. 263+65
14. PLAN & PROFILE STA. 263+65 TO STA. 250+95
15. PLAN & PROFILE STA. 250+95 TO STA. 238+25
16. PLAN & PROFILE STA. 238+25 TO STA. 225+55
17. PROCESSING AREA PLAN (1)
18. PROCESSING AREA PLAN (2)
19. PROCESSING AREA PLAN (3)
20. PROCESSING AREA PLAN (4)
21. PROCESSING AREA PLAN (5)
22. MINING PIT PLAN (1)
23. MINING PIT PLAN (2)
24. MINING PIT PLAN (3)
25. MINING PIT PLAN (4)
26. MINING PIT PLAN (5)
27. MINING PIT PLAN (6)
28. TROYER ROAD TURN LANE/ENTRANCE PLAN (1)
29. TROYER ROAD TURN LANE/ENTRANCE PLAN (2)
30. CROSS SECTIONS
31. DRAINAGE DETAILS
32. PAVING DETAILS



LOCATION MAP

NOT TO SCALE

PREPARED FOR:

TROYER BROTHERS FLORIDA, INC.

14700 TROYER BROTHERS ROAD

FORT MYERS, FLORIDA 33913-7448

PHONE: 239.860.3728 FAX: 239.303.1297

PREPARED BY:

AIM Engineering & Surveying, Inc.

CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES *
PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT

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CERTIFICATION OF AUTHORIZATION No. 3114



Ronald Kerfoot
P.E. No. 20768

Approved as Exhibit
MCP Page 1 of 44
Resolution # 7-18-022

RONALD KERFOOT
LICENSE
8/30/2019

LANDSCAPE SHEETS

LP-101 LANDSCAPE PLAN
LP-102 FINAL GRADING PLAN FOR RECLAMATION
LP-501 THRU 503 PLANNING DETAILS
LP-601 LANDSCAPE SPECIFICATIONS

PHOTOMETRIC SHEETS

LL-101 PHOTOMETRIC PLAN
LL-401 AND 402 PHOTOMETRIC ENLARGEMENTS
LL-501 PHOTOMETRIC DETAILS

REVISED: P 8/25/19 MRPD APPROVAL

DCI 2018-00025

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TO THE BEST OF MY KNOWLEDGE AND BELIEF, "I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP (MINING PLANS SHEETS 1-32) IS CORRECT, AND SHOWS THE INFORMATION REQUIRED BY THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE TO OBTAIN A MRPD, MDO OR MOP", WHICH DOES NOT INCLUDE REQUIRED SUBMITTALS FROM OTHER PROFESSIONALS AND SPECIALISTS ON THE PROJECT TEAM RESPONSIBLE FOR THEIR COMPONENTS OF THE PROJECT.

HOURS OF OPERATION
 HOURS OF OPERATION, INCLUDING 24-HOUR OPERATIONS, EXCLUDE SUNDAYS AND HOLIDAYS RECOGNIZED BY THE STATE OF FLORIDA IN S. 110.117 F.S.

OFFICES: 6:00 AM TO 6:00 PM, MONDAY-SATURDAY

CRUSHING AT PROCESSING PLANT: 6:00 AM TO 6:00 PM, MONDAY-SATURDAY

EQUIPMENT MAINTENANCE: 6:00 AM TO 10:00 PM, MONDAY-SATURDAY, EQUIPMENT MAINTENANCE WITHIN 1,280' FEET OF THE CORKSCREW ESTATES PROPERTY LINE IS SUBJECT TO LIMITED HOURS SET FORTH BELOW.

EXCAVATION/DAGLINE OPERATIONS: 6:00 AM TO 6:00 PM, MONDAY-SATURDAY, SATURDAY OPERATIONS PROHIBITED WITHIN 1,280' FEET OF THE CORKSCREW ESTATES PROPERTY LINE

TRUCKING ACTIVITY: 6:00 AM TO 6:00 PM, MONDAY-SATURDAY, SATURDAY OPERATIONS PROHIBITED WITHIN 1,280' FEET OF CORKSCREW ESTATES PROPERTY LINE.

MOBILE CRUSHERS: 6:00 AM TO 6:00 PM, MONDAY-SATURDAY, SATURDAY OPERATIONS PROHIBITED WITHIN 1,280' FEET OF CORKSCREW ESTATES PROPERTY LINE.

LIMITED OPERATIONS WITHIN 1,280' FEET OF CORKSCREW ESTATES
 EQUIPMENT MAINTENANCE, EXCAVATION/DAGLINE OPERATIONS, TRUCKING ACTIVITY, AND MOBILE CRUSHERS ARE LIMITED TO 6:00 AM TO 6:00 PM MONDAY-SATURDAY WITHIN 1,280 FEET OF CORKSCREW ESTATES PROPERTY LINE.

TWENTY-FOUR HOUR OPERATIONS
 THE MINE OPERATION MAY OPERATE ON A 24-HOUR BASIS WHEN CONTRACTUALLY OBLIGATED TO DO SO BY FEDERAL, STATE OR LOCAL PUBLIC PROJECT CONTRACTUAL REQUIREMENTS. THE MINE OPERATOR MUST SUBMIT CONTRACTS FOR 24-HOUR OPERATION TO THE DIRECTOR OF THE DEPARTMENT OF COMMUNITY DEVELOPMENT PRIOR TO COMMENCING 24-HOUR OPERATIONS. THE CONTRACT MUST INCLUDE VOLUME OF MATERIALS AND ANTICIPATED DURATION OF 24-HOUR OPERATION. TWENTY-FOUR HOUR OPERATIONS EXCLUDE SUNDAYS AND HOLIDAYS RECOGNIZED BY THE STATE OF FLORIDA IN S. 110.117 F.S.

TWENTY-FOUR HOUR OPERATIONS ARE PROHIBITED WITHIN 5,280 FEET OF CORKSCREW ESTATES PROPERTY LINE.

THESE PROHIBITIONS APPLY TO ALL MINE OPERATIONS EXCEPT OFFICE HOURS, MAINTENANCE OF VEHICLES/EQUIPMENT IN THE MAINTENANCE BUILDING, AND CRUSHING AT THE PROCESSING PLANT.

SITE DATA:
 1732.75 AC. = MEPD BOUNDARY AREA
 807.83 AC. = FDEP JURISDICTIONAL WETLAND AREA (INCLUDES, BUT NOT SHOWN ON PLAN, 42.00 ACRES OF INTERIOR FARM DITCHES)

213.55 AC. = IMPACTS TO FDEP JURISDICTIONAL WETLAND AREA (INCLUDES, BUT NOT SHOWN ON PLAN, IMPACTS TO ALL OF THE 42.00 ACRES OF INTERIOR FARM DITCHES)

10.76 AC. = TEMPORARY IMPACTS TO FDEP JURISDICTIONAL WETLAND AREA (TO BE RESTORED DURING MINE RECLAMATION)

SITE AREAS:
 1,732.75 AC. = MEPD BOUNDARY AREA
 594.28 AC. = PRESERVED WETLANDS AREA
 10.76 AC. = TEMPORARY IMPACTS TO WETLANDS
 8.00 AC. = POND
 781.00 AC. = MINING AREA
 22.38 AC. = SITE - ADM./SALES FACILITY & TRUCK SCALES
 22.98 AC. = SITE - MAINTENANCE FACILITY
 56.05 AC. = PROCESSING AREA
 8.00 AC. = ENTRANCE ROAD WITHIN THE MEPD BOUNDARY
 229.30 AC. = BUFFERS AND NOT MINED AREAS

INDIGENOUS VEGETATION AREAS:
 MEPD BOUNDARY AREA = 1,732.75 AC.
 INDIGENOUS AREA PROVIDED = 634.26 AC.
 (SEE W. DEXTER BENDER AND ASSOCIATES, INC. PLANS FOR INDIGENOUS VEGETATION AREAS)

NOTE:
 (1). MAXIMUM BUILDING HEIGHT = 50'
 (2). MAXIMUM ACCESSORY STRUCTURE HEIGHT = 90'
 (3). BLASTING WILL BE REQUIRED FOR ROCK EXCAVATION
 (4). LIMITED DEWATERING WILL BE UTILIZED FOR OVERBURDEN EXCAVATION
 (5). STOCKPILING OF MATERIALS - FOR LOCATIONS AND REQUIREMENTS SEE SHEET 8.

NOT PART OF THE MEPD BOUNDARY:
 10.70 AC. = EXISTING FACILITY AT THE ENTRANCE
 15.41 AC. = SITE - AGRICULTURAL LANDS
 1.40 AC. = ENTRANCE ROAD OUTSIDE THE MEPD BOUNDARY
 43.24 AC. = BUFFERS AND NOT MINED AREAS

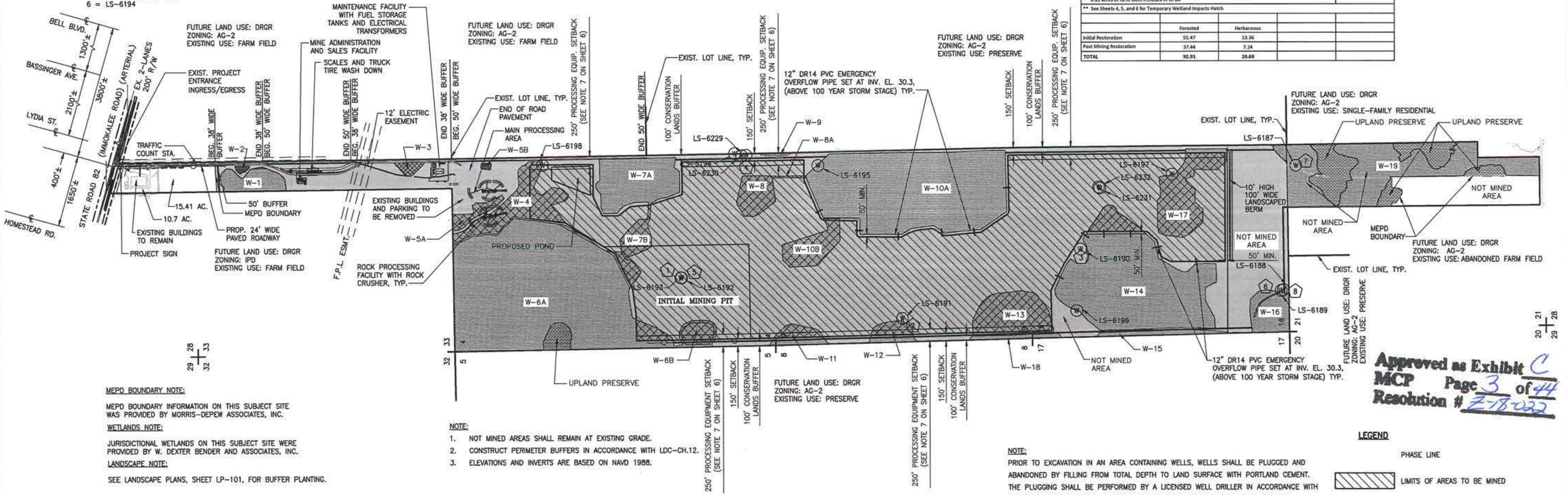
WET ID	AC.	Perm. Imp	Wet Pres.	Temp. Imp Rest.**
W-1	12.37	0.18	12.19	
W-2	0.75	0.75	0	
W-3	2.61	2.61	0	
W-4	28.92	27.82	0.86	0.24
W-5A	5.34	5.34	0	
W-5B	0.58	0.58	0	
W-6A	204.6	8.01	193.61	2.98
W-6B	7.58	6.25	0.55	0.78
W-7A&7B	43.26	8.25	34.91	0.10
W-8	12.3	12.3	0	
W-8A	0.63	0.58	0	0.05
W-9	0.83	0	0.83	
W-10A&B	154.57	15.2	138.77	0.40
W-11	8.32	4.47	2.65	1.20
W-12A	5.51	4.61	0.00	0.90
W-12B	1.66	0	1.66	
W-13	27.51	26.15	0	1.36
W-14A	119.86	7.99	110.29	1.64
W-14B	0.90	0	0.89	0.01
W-15	5.06	0	5.06	
W-16	14.75	0	14.75	
W-17	31.36	29.63	0.63	1.1
W-18	3.39	0	3.39	
W-19	73.04	0	73.04	
FARM DITCHES*	42.13	42.13	0	
TOTALS	807.83	202.79	594.28	10.76

* 0.63 acres of farm ditch included in W-8A
 ** See Sheets 4, 5, and 6 for Temporary Wetland Impacts Hatch

	Forested	Herbaceous
Initial Restoration	55.47	13.36
Post Mining Restoration	37.44	7.24
TOTAL	92.91	20.60



- SOIL BORING CORE LOCATIONS**
- 1 = LS-6187
 - 2 = LS-6188 & LS-6189
 - 3 = LS-6190
 - 4 = LS-6191
 - 5 = LS-6192 & LS-6193
 - 6 = LS-6194



MEPD BOUNDARY NOTE:
 MEPD BOUNDARY INFORMATION ON THIS SUBJECT SITE WAS PROVIDED BY MORRIS-DEPEW ASSOCIATES, INC.

WETLANDS NOTE:
 JURISDICTIONAL WETLANDS ON THIS SUBJECT SITE WERE PROVIDED BY W. DEXTER BENDER AND ASSOCIATES, INC.

LANDSCAPE NOTE:
 SEE LANDSCAPE PLANS, SHEET LP-101, FOR BUFFER PLANTING.

- NOTE:**
1. NOT MINED AREAS SHALL REMAIN AT EXISTING GRADE.
 2. CONSTRUCT PERIMETER BUFFERS IN ACCORDANCE WITH LDC-CH.12.
 3. ELEVATIONS AND INVERTS ARE BASED ON NAVD 1988.

NOTE:
 PRIOR TO EXCAVATION IN AN AREA CONTAINING WELLS, WELLS SHALL BE PLUGGED AND ABANDONED BY FILLING FROM TOTAL DEPTH TO LAND SURFACE WITH PORTLAND CEMENT. THE PLUGGING SHALL BE PERFORMED BY A LICENSED WELL DRILLER IN ACCORDANCE WITH LEE COUNTY REGULATIONS. A PERMIT WILL BE REQUIRED FOR EACH ABANDONMENT.

Approved as Exhibit C
 MCP Page 3 of 44
 Resolution # 2-18-2022

LEGEND

- PHASE LINE
- LIMITS OF AREAS TO BE MINED
- MEPD BOUNDARY AREA
- WETLAND IMPACTS
- WETLAND AREAS
- UPLAND PRESERVE
- SOIL BORING CORE LOCATION
- MONITORING WELL

NAV 88

PROPERTY DEVELOPMENT REGULATIONS

MAXIMUM EXCAVATION DEPTH: 110 FEET BELOW CONTROL ELEVATION OR 2 FEET ABOVE CONFINING LAYER, WHICHEVER OCCURS FIRST (SUBJECT TO FDEP PERMIT)

MAXIMUM BUILDING HEIGHT: 50 FEET
 MAXIMUM ACCESSORY STRUCTURE HEIGHT: 90 FEET
 MAXIMUM DAGLINE HEIGHT: 250 FEET
 MINIMUM PARCEL AREA FOR ACCESSORY USES: 10 ACRES

SETBACKS:
 EXCAVATION (MINE PIT):

CORKSCREW ROAD: 6,500 FEET
 IMMOKALEE ROAD (SR 82): 8,500 FEET
 PROPERTY LINE (NON-RESIDENTIAL): 150 FEET
 PROPERTY LINE (CORKSCREW ESTATES): 1,280' FEET
 WETLAND JURISDICTION LINE: NO LESS THAN 50 FEET

ACCESSORY STRUCTURE (INCLUDING MOBILE ROCK CRUSHERS):
 CORKSCREW ROAD: 6,500 FEET
 IMMOKALEE ROAD (SR 82): 3,300 FEET
 CORKSCREW ESTATES: 1,280' FEET FROM PROPERTY LINE

PROPERTY LINE (EXCLUDES CORKSCREW ESTATES)
 PERMANENT PROCESSING PLANT: 600 FEET
 MOBILE ROCK CRUSHERS: 250 FEET WHEN AN EXCAVATION WINDOW IS PROVIDED BETWEEN THE CRUSHER AND ADJACENT PROPERTY BOUNDARY. IF NO WINDOW IS PROVIDED, MINIMUM SETBACK IS 600 FEET.
 OTHER ACCESSORY BUILDINGS OR STRUCTURES: 50 FEET

NO STAGING, STORAGE OR OTHER MINING ACTIVITIES MAY TAKE PLACE IN THE AREA LOCATED SOUTH OF THE EXCAVATION AREA IDENTIFIED IN THE MINING PLANS AS "NOT MINED."

SETBACKS NOT SPECIFICALLY ADDRESSED MUST COMPLY WITH LDC CHAPTER 12.

*SCALED TO BE ±2,000' FROM NEAREST EXISTING RESIDENTIAL STRUCTURE IN EXISTENCE AT TIME OF MEPD APPROVAL.

MINE CONSTRUCTION AND OPERATIONS PHASING PLAN:
 BONA FIDE AGRICULTURAL ACTIVITIES MAY CONTINUE ON-SITE UNTIL ISSUANCE OF THE MINE OPERATING PERMIT (MOP).

INITIAL CONSTRUCTION OF THE MINE INFRASTRUCTURE WILL BEGIN UPON ISSUANCE BY LEE COUNTY OF A MINE DEVELOPMENT ORDER (MDO). THIS INITIAL CONSTRUCTION WILL CONSIST OF THE FOLLOWING:

1. ENTRANCE IMPROVEMENTS ON S.R.82; THE PAVED ENTRANCE ROAD; SCALES AND TRUCK TIRE WASH DOWN; MINE ADMINISTRATION AND SALES FACILITIES; MAINTENANCE FACILITY AND FUEL STORAGE TANKS; PROCESSING FACILITIES; FIELD ROCK CRUSHERS, BERMS, WATER MANAGEMENT FACILITIES AND ASSOCIATED STRUCTURES; BUFFERS AND PLANTINGS; AND EROSION CONTROL FACILITIES.
2. A PORTION OF THE INITIAL MINING PIT EXCAVATION OF SAND AND LIMESTONE MATERIALS TO BE USED FOR THE CONSTRUCTION OF THE ON-SITE INFRASTRUCTURE AND THE S.R. 82 IMPROVEMENTS DESCRIBED IN PARAGRAPH 1, ABOVE. THE SAND AND ROCK PROCESSING FACILITIES SHALL BE ALLOWED TO OPERATE TO THE EXTENT NECESSARY TO PROCESS THE MATERIALS FOR USE IN THE CONSTRUCTION OF THE INITIAL INFRASTRUCTURE AS DESCRIBED HEREIN. NO MATERIALS WILL BE REMOVED FROM THE SITE UNTIL AN MOP IS ISSUED BY LEE COUNTY.

NO.	DATE	REVISION
3	8/21/19	ADDED 10' LANDSCAPED BERM, RELOCATE PROCESSING PLANT, NOTES
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

NOT AUTHORIZED FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT

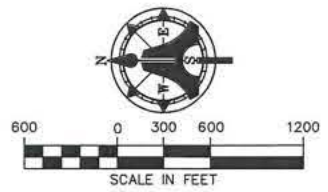
2161 FOWLER ST.
 FORT MYERS, FL 33901
 E-Mail: engineering@aimengr.com

TELE: 239-332-4569
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

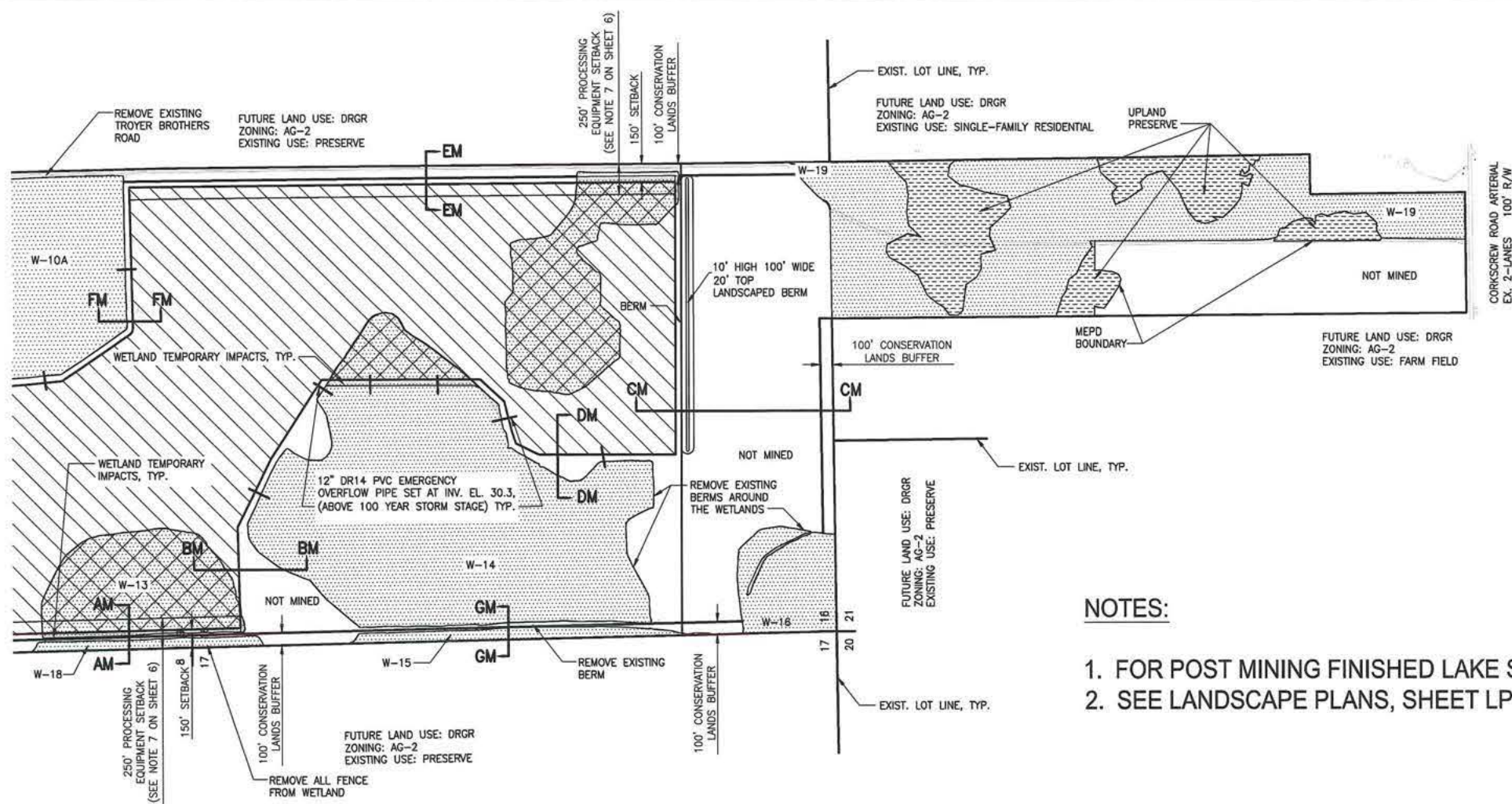
SCALE: AS-NOTED
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 MINING & EXCAVATION PLAN
 OVERALL PLAN
 2016-000253



LAT. 26°29'26.05" N.
 LONG. 81°37'18.52" W.
 SECTIONS 28 AND 33, T45S, R27E
 SECTIONS 4, 9, 16 & 21, T46S, R27E
 SOUTHEAST LEE COUNTY, FLORIDA

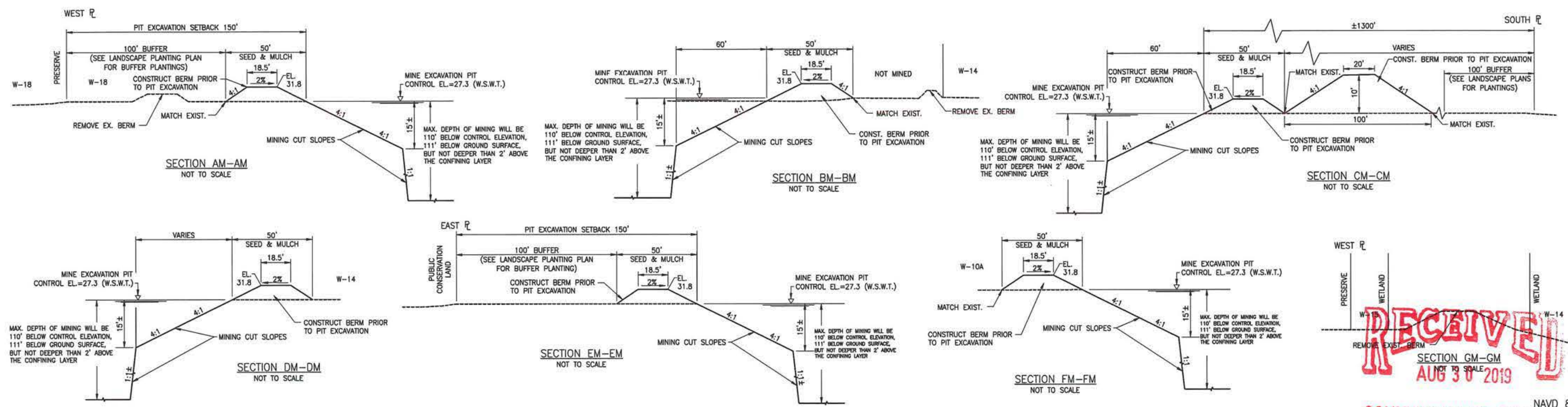
- LEGEND**
- LIMITS OF AREAS TO BE MINED
 - WETLAND IMPACTS
 - WETLAND AREAS
 - UPLAND PRESERVE
 - WETLAND TEMPORARY IMPACTS (SEE TABLE ON SHEET 3)



Approved as Exhibit C
 MCP Page 4 of 44
 Resolution # 2-18-022

NOTES:

1. FOR POST MINING FINISHED LAKE SECTIONS SEE SHEET LP-102.
2. SEE LANDSCAPE PLANS, SHEET LP-101, FOR BUFFER PLANTINGS.



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NO.	DATE	REVISION
3	8/21/19	ADDED 10' HIGH LANDSCAPED BERM
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

NOT AUTHORIZED FOR CONSTRUCTION
 UNLESS SIGNED IN THIS BLOCK

AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
 2161 FOWLER ST. FORT MYERS, FL 33901
 E-Mail: engineering@aimengr.com TELE: 239-332-4569
 CERTIFICATION OF AUTHORIZATION No. 3114

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 14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 MINING & EXCAVATION PLAN
 NAVD 88
 COMMUNITY DEVELOPMENT
 0612016-00025



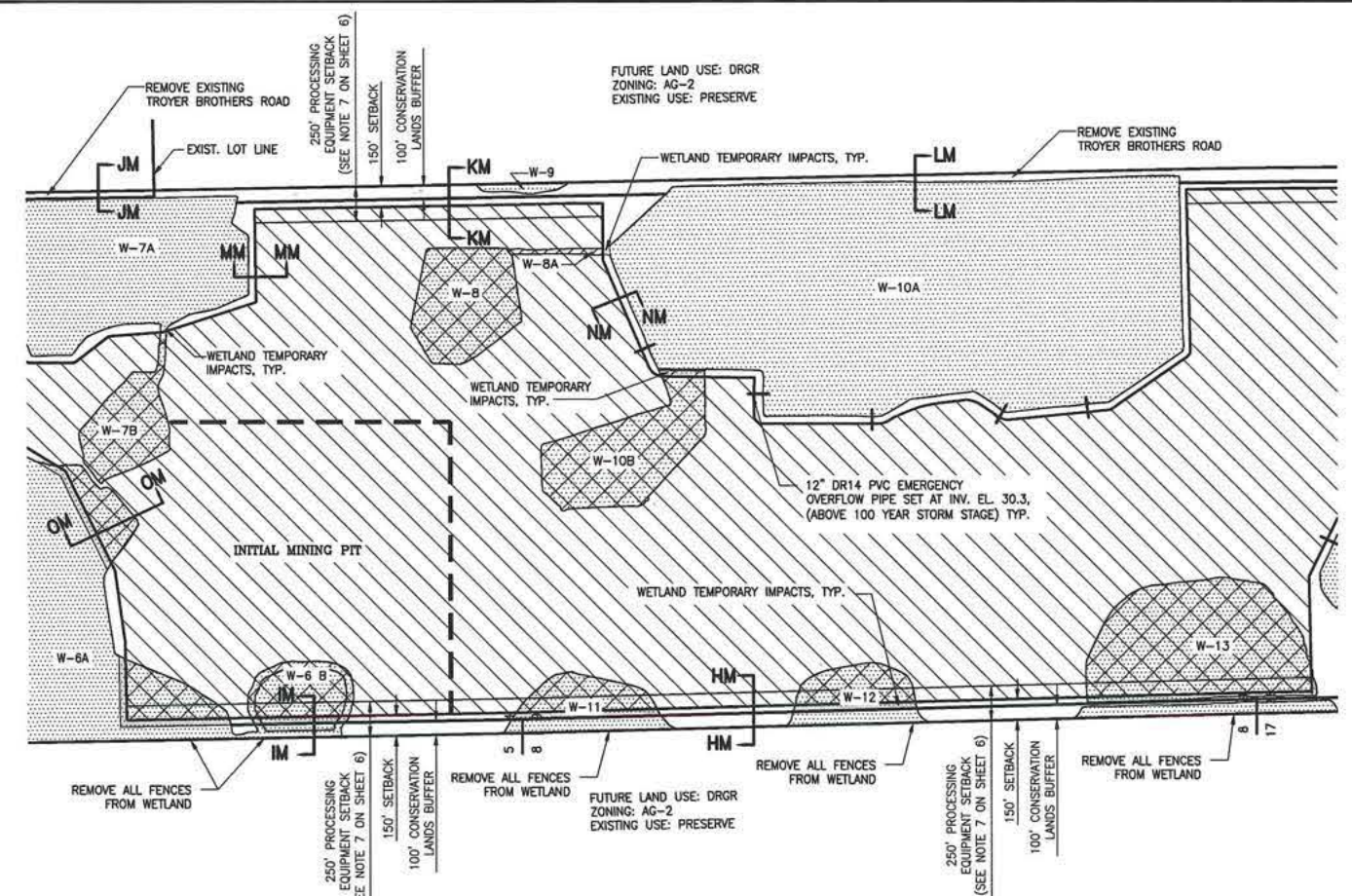
LAT. 26°29'26.05" N.
 LONG. 81°37'18.52" W.
 SECTIONS 28 AND 33, T45S, R27E
 SECTIONS 4, 9, 16 & 21, T46S, R27E
 SOUTHEAST LEE COUNTY, FLORIDA

NOTES:

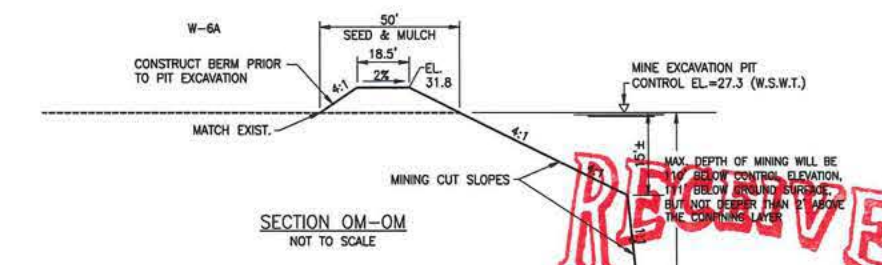
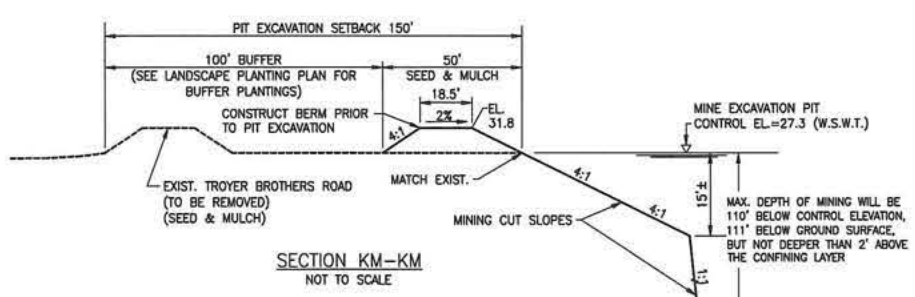
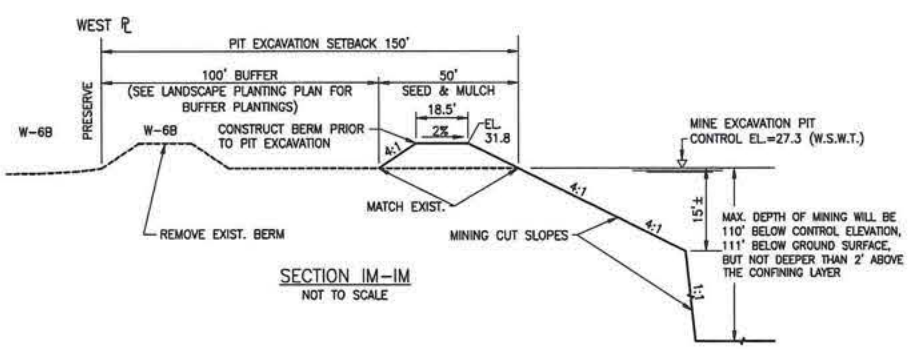
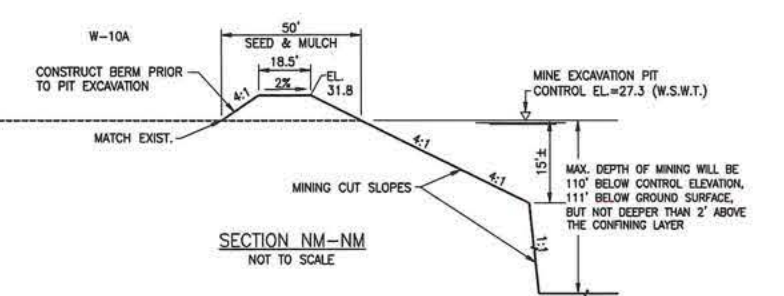
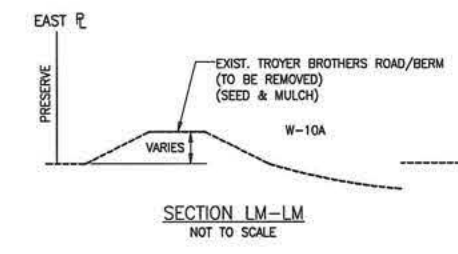
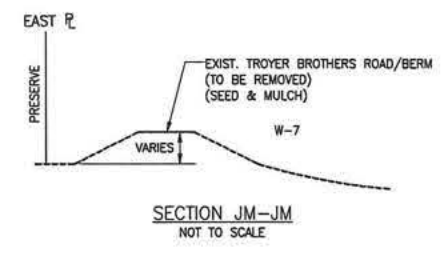
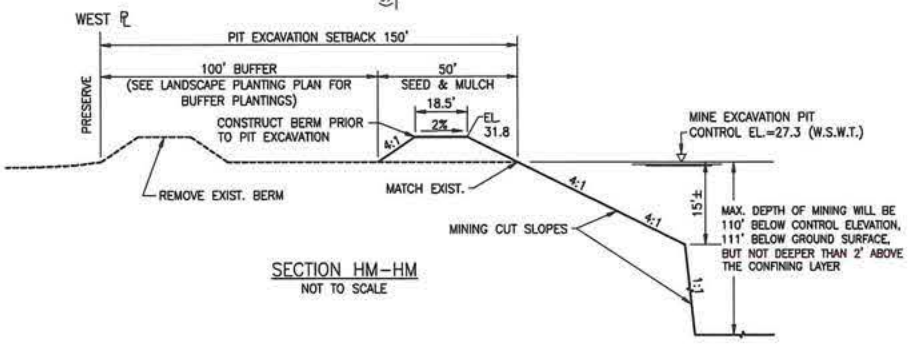
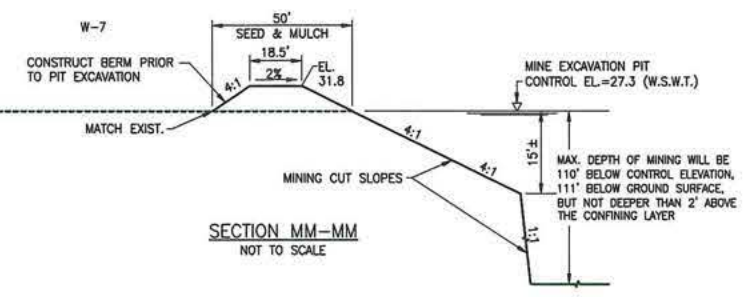
1. FOR POST MINING FINISHED LAKE SECTIONS SEE SHEET LP-102.
2. SEE LANDSCAPE PLANS, SHEET LP-101, FOR BUFFER PLANTINGS.

LEGEND

	LIMITS OF AREAS TO BE MINED
	WETLAND AREAS
	WETLAND IMPACTS
	WETLAND TEMPORARY IMPACTS (SEE TABLE ON SHEET 3)



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 MCP Page 5 of 44
 Resolution # 7-18-2017



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NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

NOT AUTHORIZED FOR CONSTRUCTION
 UNLESS SIGNED IN THIS BLOCK

AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT

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 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 COMMUNITY DEVELOPMENT
 MINING & EXCAVATION PLAN (2) SHEET 17

DCI 2016-00025

HAZARDOUS MATERIALS EMERGENCY PLAN

MATERIALS: FOR THE MINING OPERATION, GASOLINE, DIESEL, HYDRAULIC AND TRANSMISSION FLUIDS, MOTOR OIL AND GREASE PETROLEUM PRODUCTS WILL BE STORED AT THE SITE. BLASTING AGENTS CONSISTING OF AMMONIUM NITRATE AND MINERAL OIL WILL NOT BE STORED AT THE SITE, BUT WILL BE DELIVERED AND USED ON AN AS-NEEDED BASIS.

STORAGE: GASOLINE AND DIESEL WILL BE STORED IN DOUBLE WALLED TANKS WITH A CONCRETE PAD AND CONTAINING WALL SUFFICIENT TO RETAIN 100% OF THE FUEL AT THE STORAGE SITE. OTHER ITEMS WILL BE STORED IN THE MAINTENANCE SHOP BUILDING.

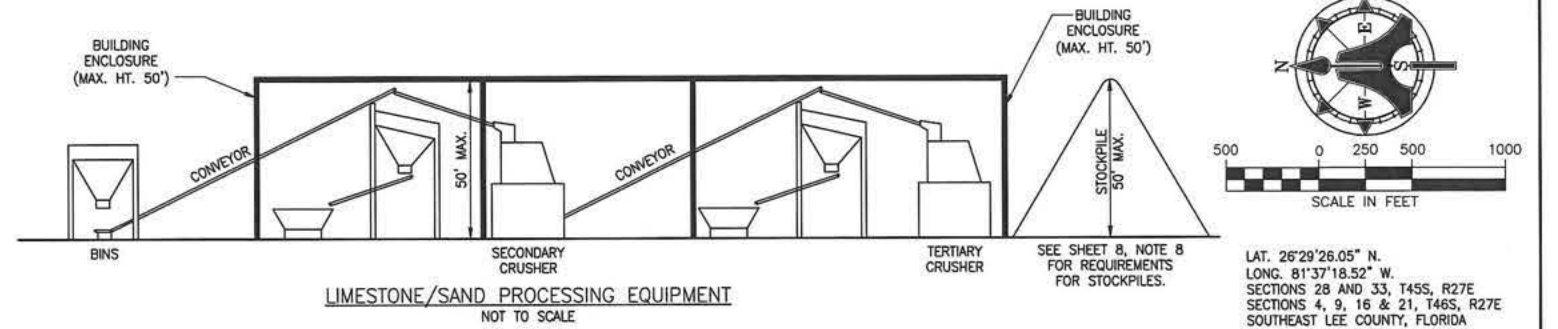
FUELING: THE FUELING STATION WILL BE EQUIPPED WITH A CONCRETE FLOOR SURFACE WITH INTERCEPT DRAINS TO COLLECT AND SEPARATE PETROLEUM PRODUCTS FROM THE STORMWATER RUNOFF SYSTEM. THE FUEL/OIL/GREASE HOLDING TANKS WILL BE ROUTINELY PUMPED OUT AND DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

MAINTENANCE BUILDING: THE MAINTENANCE ACTIVITIES WILL BE PERFORMED UNDER A ROOFED STRUCTURE HAVING A CONCRETE HARD SURFACE FLOOR WHEN POSSIBLE. THE SHOP FLOOR WILL HAVE INTERCEPTOR DRAINS WITH AN OIL/GREASE SEPARATOR TO PREVENT FLUSHING PETROLEUM PRODUCTS INTO THE STORMWATER COLLECTION SYSTEM. THE OIL/GREASE HOLDING TANKS WILL BE ROUTINELY PUMPED OUT AND DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

ACCIDENTAL SPILLS: IN THE EVENT OF AN ACCIDENTAL SPILL, THE FLUID WILL BE MOPPED UP USING APPROPRIATE ABSORBENT MATERIAL STORED AT THE SITE. THE SPENT ABSORBENT MATERIAL WILL BE PROPERLY DISPOSED OF AT AN APPROVED FACILITY. ANY CONTAMINATED SOIL WILL BE SCOOPED UP AND DISPOSED OF AT AN APPROVED SITE FOR SOIL DE-CONTAMINATION. ACCIDENTAL SPILLS WILL BE REPORTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES, POLICIES AND GUIDELINES.

CLEANING: FOR SHOP FLOORS AND EQUIPMENT CLEAN-UP, THE WASTE MATERIALS WILL BE COLLECTED, STORED ONSITE AND ROUTINELY DISPOSED OF WITH APPROVED HANDLING AGENCIES.

USED MATERIALS: USED MOTOR OIL WILL BE RECYCLED AT AN APPROVED RECYCLING CENTER.

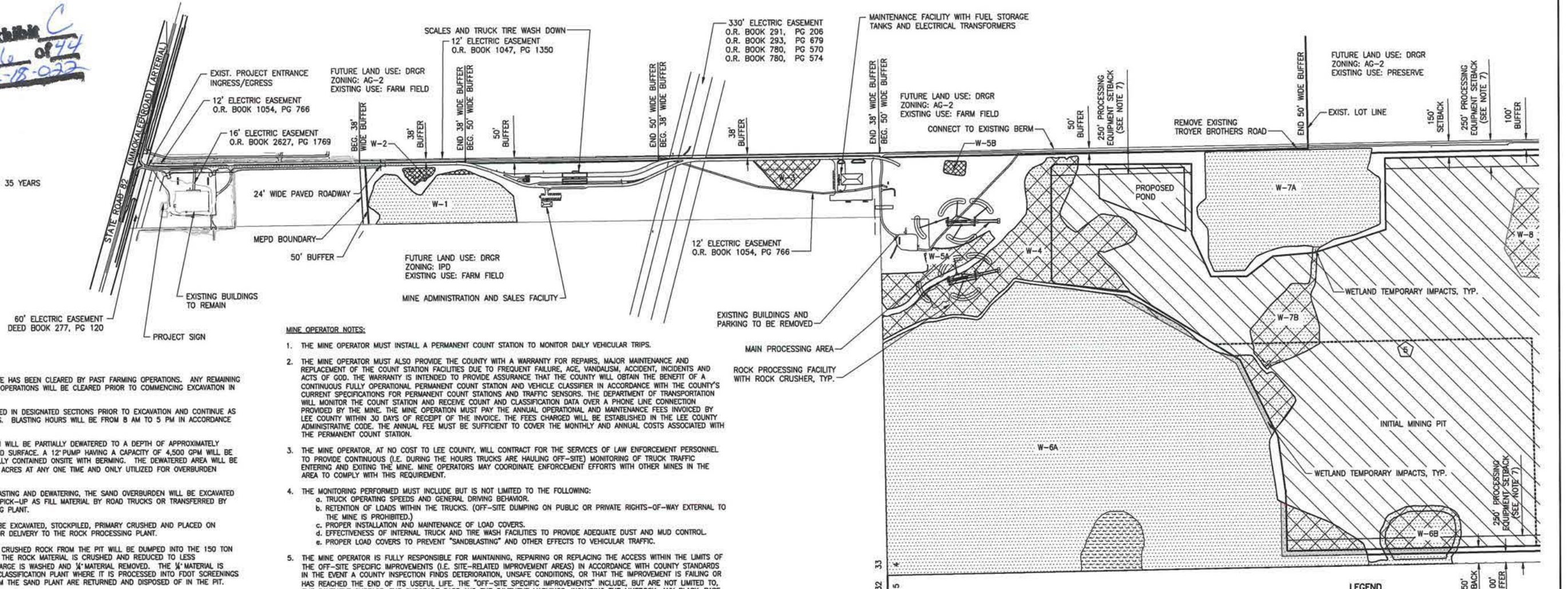


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MCP Page 6 of 44
Revision # E-18-022

MINING SCHEDULE:

MINING AREA: 781.00 ACRES

ANTICIPATED EXCAVATION PERIOD - 35 YEARS



PROPOSED MINING OPERATION

CLEARING: THE MAJORITY OF THE SITE HAS BEEN CLEARED BY PAST FARMING OPERATIONS. ANY REMAINING AREAS TO BE CLEARED FOR MINING OPERATIONS WILL BE CLEARED PRIOR TO COMMENCING EXCAVATION IN THOSE AREAS.

BLASTING: THE ROCK WILL BE BLASTED IN DESIGNATED SECTIONS PRIOR TO EXCAVATION AND CONTINUE AS NEEDED AS EXCAVATION PROGRESSES. BLASTING HOURS WILL BE FROM 8 AM TO 5 PM IN ACCORDANCE WITH F.S. CHAPTER 552.

DEWATERING: THE SAND OVERBURDEN WILL BE PARTIALLY DEWATERED TO A DEPTH OF APPROXIMATELY SEVEN (7) FEET BELOW THE GROUND SURFACE. A 12" PUMP HAVING A CAPACITY OF 4,500 GPM WILL BE USED. PUMPED WATER WILL BE FULLY CONTAINED ON SITE WITH BERMING. THE DEWATERED AREA WILL BE LIMITED TO APPROXIMATELY FIVE (5) ACRES AT ANY ONE TIME AND ONLY UTILIZED FOR OVERBURDEN REMOVAL.

OVERBURDEN EXCAVATION: AFTER BLASTING AND DEWATERING, THE SAND OVERBURDEN WILL BE EXCAVATED BY DRAGLINE AND STOCKPILED FOR PICK-UP AS FILL MATERIAL BY ROAD TRUCKS OR TRANSFERRED BY CONVEYOR TO THE SAND PROCESSING PLANT.

ROCK EXCAVATION: THE ROCK WILL BE EXCAVATED, STOCKPILED, PRIMARY CRUSHED AND PLACED ON CONVEYORS AND LIMITED TRUCKS FOR DELIVERY TO THE ROCK PROCESSING PLANT.

PRIMARY PROCESSING: THE PRIMARY CRUSHED ROCK FROM THE PIT WILL BE DUMPED INTO THE 150 TON HOPPER BY TRUCK FROM THE PIT. THE ROCK MATERIAL IS CRUSHED AND REDUCED TO LESS THAN 8" SIZE. THE CRUSHER DISCHARGE IS WASHED AND 1/4" MATERIAL REMOVED. THE 1/4" MATERIAL IS PUMPED AS SLURRY TO THE SAND CLASSIFICATION PLANT WHERE IT IS PROCESSED INTO FDOT SCREENINGS OR CONCRETE SAND. TAILINGS FROM THE SAND PLANT ARE RETURNED AND DISPOSED OF IN THE PIT.

SECONDARY PROCESSING: THE 1/4" TO 8" MATERIAL IS CONVEYED TO THE FINISHING PLANT WHERE IT UNDER GOES SCREENING, CRUSHING, AND WASHING UNTIL IT MEETS FDOT SPECIFICATIONS FOR BOTH COARSE AND FINE AGGREGATE. THE FINISHED PRODUCT IS SOLD OR INVENTORIED IN THE YARD.

SHIPPING FACILITY: THE HIGHWAY TRUCKS ARE LOADED FROM THE PROCESSING PLANT DIRECTLY OR FROM INVENTORY STOCKPILES USING FRONT END LOADERS. EACH TRUCK IS SCALED TO MEET THE LEGAL REQUIREMENTS OF FDOT WEIGHT LIMITS. ALL MATERIALS ARE TESTED FOR COMPLIANCE WITH STATE REGULATIONS.

THE BASE ROCK PRODUCTION IS AN ACTIVITY INDEPENDENT OF THE PROCESSING PLANT. RAW MATERIAL IS CRUSHED IN THE PIT BY PORTABLE CRUSHER DIRECTLY FROM THE EXCAVATED WINDOW. THIS MATERIAL IS INVENTORIED IN THE PIT AND LOADED AT THE PRODUCTION SITE BY FRONT END LOADERS. ALL MATERIAL IS TESTED FOR COMPLIANCE WITH STATE REGULATIONS.

THE ADMINISTRATION OFFICE HANDLES ADMINISTRATIVE ACTIVITIES ASSOCIATED WITH THE MINING ACTIVITIES.

THE TESTING LABORATORY HANDLES TESTING OF VARIOUS MATERIALS ASSOCIATED WITH THE MINING ACTIVITIES.

THE SHOP BUILDING HOUSES ACTIVITIES ASSOCIATED WITH REPAIR AND MAINTENANCE OF THE MOBILE AND PLANT EQUIPMENT.

FOR STOCKPILE LOCATIONS AND CRITERIA, SEE SHEET 8.

MINING OPERATOR NOTES:

- 1. THE MINE OPERATOR MUST INSTALL A PERMANENT COUNT STATION TO MONITOR DAILY VEHICULAR TRIPS.
- 2. THE MINE OPERATOR MUST ALSO PROVIDE THE COUNTY WITH A WARRANTY FOR REPAIRS, MAJOR MAINTENANCE AND REPLACEMENT OF THE COUNT STATION FACILITIES DUE TO FREQUENT FAILURE, AGE, VANDALISM, ACCIDENT, INCIDENTS AND ACTS OF GOD. THE WARRANTY IS INTENDED TO PROVIDE ASSURANCE THAT THE COUNTY WILL OBTAIN THE BENEFIT OF A CONTINUOUS FULLY OPERATIONAL PERMANENT COUNT STATION AND VEHICLE CLASSIFIER IN ACCORDANCE WITH THE COUNTY'S CURRENT SPECIFICATIONS FOR PERMANENT COUNT STATIONS AND TRAFFIC SENSORS. THE DEPARTMENT OF TRANSPORTATION WILL MONITOR THE COUNT STATION AND RECEIVE COUNT AND CLASSIFICATION DATA OVER A PHONE LINE CONNECTION PROVIDED BY THE MINE. THE MINE OPERATION MUST PAY THE ANNUAL OPERATIONAL AND MAINTENANCE FEES INVOICED BY LEE COUNTY WITHIN 30 DAYS OF RECEIPT OF THE INVOICE. THE FEES CHARGED WILL BE ESTABLISHED IN THE LEE COUNTY ADMINISTRATIVE CODE. THE ANNUAL FEE MUST BE SUFFICIENT TO COVER THE MONTHLY AND ANNUAL COSTS ASSOCIATED WITH THE PERMANENT COUNT STATION.
- 3. THE MINE OPERATOR, AT NO COST TO LEE COUNTY, WILL CONTRACT FOR THE SERVICES OF LAW ENFORCEMENT PERSONNEL TO PROVIDE CONTINUOUS (I.E. DURING THE HOURS TRUCKS ARE HAULING OFF-SITE) MONITORING OF TRUCK TRAFFIC ENTERING AND EXITING THE MINE. MINE OPERATORS MAY COORDINATE ENFORCEMENT EFFORTS WITH OTHER MINES IN THE AREA TO COMPLY WITH THIS REQUIREMENT.
- 4. THE MONITORING PERFORMED MUST INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:
 - a. TRUCK OPERATING SPEEDS AND GENERAL DRIVING BEHAVIOR.
 - b. RETENTION OF LOADS WITHIN THE TRUCKS. (OFF-SITE DUMPING ON PUBLIC OR PRIVATE RIGHTS-OF-WAY EXTERNAL TO THE MINE IS PROHIBITED.)
 - c. PROPER INSTALLATION AND MAINTENANCE OF LOAD COVERS.
 - d. EFFECTIVENESS OF INTERNAL TRUCK AND TIRE WASH FACILITIES TO PROVIDE ADEQUATE DUST AND MUD CONTROL.
 - e. PROPER LOAD COVERS TO PREVENT "SANDBLASTING" AND OTHER EFFECTS TO VEHICULAR TRAFFIC.
- 5. THE MINE OPERATOR IS FULLY RESPONSIBLE FOR MAINTAINING, REPAIRING OR REPLACING THE ACCESS WITHIN THE LIMITS OF THE OFF-SITE SPECIFIC IMPROVEMENTS (I.E. SITE-RELATED IMPROVEMENT AREAS) IN ACCORDANCE WITH COUNTY STANDARDS IN THE EVENT A COUNTY INSPECTION FINDS DETERIORATION, UNSAFE CONDITIONS, OR THAT THE IMPROVEMENT IS FAILING OR HAS REACHED THE END OF ITS USEFUL LIFE. THE "OFF-SITE SPECIFIC IMPROVEMENTS" INCLUDE, BUT ARE NOT LIMITED TO, THE PAVEMENT SURFACE, THE SUBGRADE BASE AND THE PAVEMENT MARKINGS, INCLUDING THE LIMEROCK, ANY BLACK-BASE AND OTHER BASE AND STABILIZED MATERIAL WITHIN THE LIMITS OF THE SITE ACCESS.

MINING PLAN NOTES:

- 1. RE-ZONE 1,732.75 ACRES FROM AG-2 TO MEPD FOR A COMMERCIAL FILL DIRT, SAND AND LIMESTONE MINE OPERATION WITH ACCESSORY MINING OPERATION USES FOR ROCK CRUSHING, SAND PROCESSING, ADMINISTRATIVE / SALES OFFICES, MAINTENANCE FACILITIES AND TRUCK SCALES.
- 2. THE LAKE SHALL HAVE A MAXIMUM DEPTH OF 110 FEET BELOW THE CONTROL ELEVATION / WSW, OR THE TOP OF THE CONFINING LAYER WHICHEVER COMES FIRST.
- 3. THIS MINING PROJECT WILL BE OF LONG TERM DURATION (GREATER THAN 10 YEARS).
- 4. THE TECHNIQUES FOR EXCAVATION WILL UTILIZE EQUIPMENT, SUCH AS, SCRAPERS, BULL DOZERS, PANS, BACKHOES, FRONT-END LOADERS, TRUCKS, DRAGLINES AND BLASTING DRILL RIGS.
- 5. THE ENTRANCE WILL BE ON IMMOKALEE ROAD (STATE ROAD NO. 82) AT THE NORTHEAST CORNER OF THE PROJECT.
- 6. AN OPERATION PERMIT PURSUANT TO LDC SECTION 12-109 (c) SHALL BE OBTAINED FOR ALL REQUIRED ACTIVITIES.
- 7. SEE "SETBACKS" LISTED ON SHEET 3. THESE SETBACKS ARE DEPICTED ON THE PERTINENT PLAN SHEETS. THE LOCATION OF THESE STRUCTURES IS LIMITED TO THE MAIN PROCESSING AREA AS DEPICTED ON THE PLANS; HOWEVER, PORTABLE CRUSHERS AND SCREENING FACILITIES AND CONVEYOR BELT TRANSPORT SYSTEMS CAN ALSO OPERATE FREELY WITHIN THE MINE PIT (EXCAVATION) AREAS PROVIDED THE ABOVE SETBACKS ARE ADHERED TO WHEN WORKING WITHIN THOSE AREAS.
- 8. ACCESS WILL BE GATED TO PREVENT UNAUTHORIZED ENTRY BY THE PUBLIC TO THE EXCAVATION OR TO ACCESSORY STRUCTURES. RESTRICTED ACCESS WILL BE GRANTED DURING THE HOURS OF OPERATION AND PROHIBITED ALL OTHER TIMES.
- 9. SEE "HOURS OF OPERATION" ON SHEET 3.

FIRE PROTECTION PLAN

STRUCTURES: THE MAINTENANCE SHOP AND THE ADMINISTRATION OFFICES ARE THE MAIN STRUCTURES REQUIRING FIRE PROTECTION. THESE AREAS WILL HAVE A WATER SUPPLY WELL AND PUMP WITH A WATER STORAGE TANK TO PROVIDE TWO HOURS OF FIRE FIGHTING CAPACITY, IF NEEDED. BUILDINGS WILL BE EQUIPPED WITH FIRE SPRINKLERS IN ACCORDANCE WITH THE LEE COUNTY LAND DEVELOPMENT CODE REQUIREMENTS.

FIRE DEPARTMENT CONNECTIONS: FIRE HOSE CONNECTION POINTS WILL BE PROVIDED AT EACH STRUCTURE FOR FIRE DEPARTMENT USE. IF ADDITIONAL OR BACK UP WATER SUPPLY IS NEEDED, DRAFTING FIRE HYDRANTS MAY BE INSTALLED IN EXISTING LAKE AREAS.

ACCESS: A PAVED ACCESS ROAD WILL BE PROVIDED WITHIN THE SITE AND A STABILIZED FIRE TRUCK ACCESS, DULY MARKED WILL BE PROVIDED AT THE BUILDINGS.

LEGEND: LIMITS OF AREAS TO BE MINED, WETLAND IMPACTS, WETLAND AREAS. RECEIVED stamp: AUG 30 2016. COMMUNITY DEVELOPMENT stamp: AUG 30 2016.

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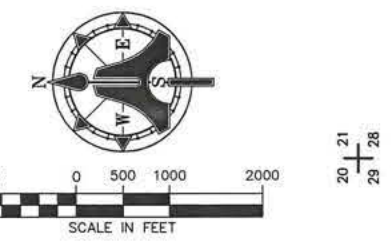
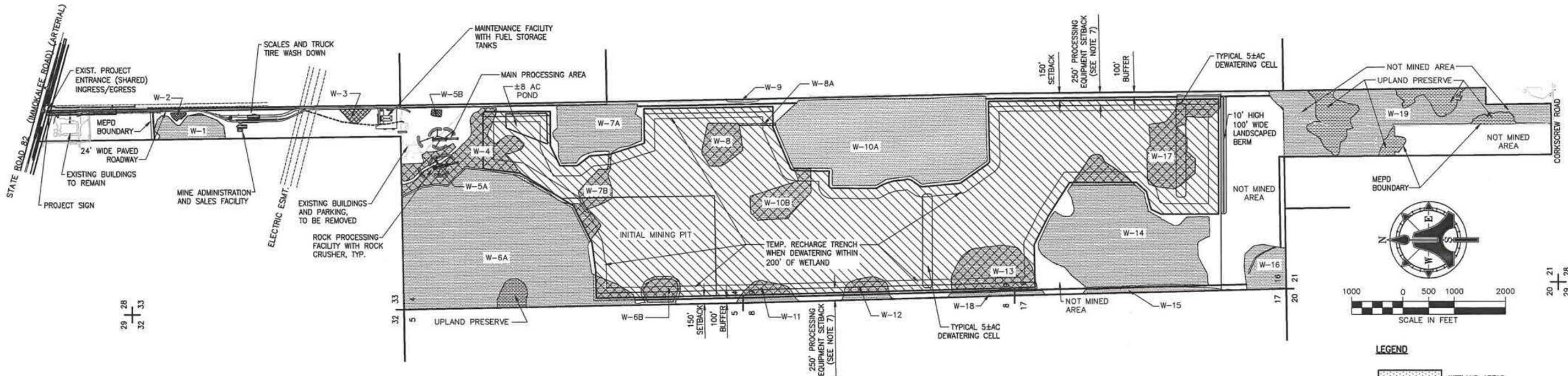
Table with 4 columns: NO., DATE, REVISION, and text describing the revision.

AIM Engineering & Surveying, Inc. CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT

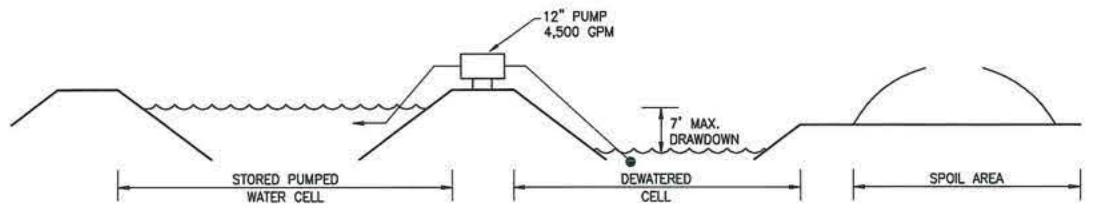
TROYER BROTHERS FLORIDA, INC. 14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED DATE: JAN. 16, 2017 MRA/REK/BK

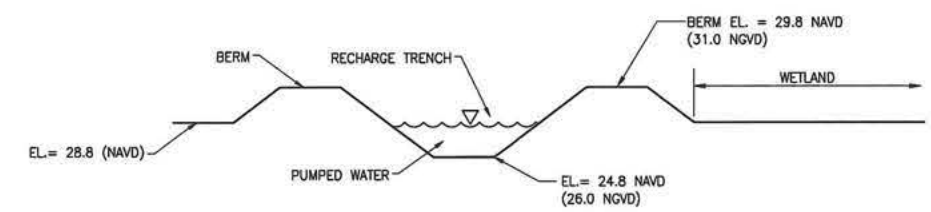
TROYER BROTHERS MINE MINING & EXCAVATION PROJECT 16-00025 SHEET 88



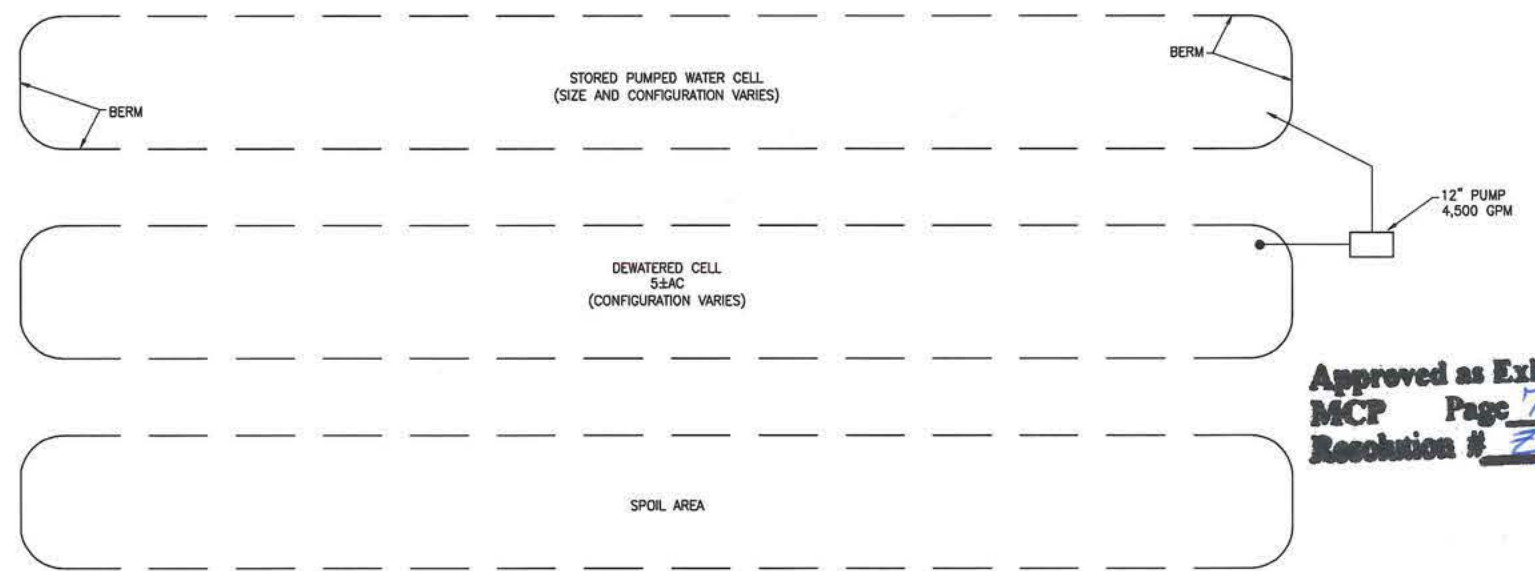
- LEGEND**
- WETLAND AREAS
 - LIMITS OF AREAS TO BE MINED
 - WETLAND IMPACTS
 - UPLAND PRESERVE



TYPICAL SECTION
NOT TO SCALE



WETLAND RECHARGE TRENCH SECTION
NOT TO SCALE



SCHEMATIC PLAN SHOWING TYPICAL DEWATERING CELL
(TO BE REPOSITIONED IN THE PIT AREA AS EXCAVATION PROGRESSES)

Approved as Exhibit C
MCP Page 7 of 44
Resolution # 7-18-022

RECEIVED
AUG 30 2019

MEPD BOUNDARY NOTE:
MEPD BOUNDARY INFORMATION IN THIS SUBJECT SITE WAS PROVIDED BY MORRIS-DEPEW ASSOCIATES, INC.
WETLANDS NOTE:
JURISDICTIONAL WETLANDS ON THIS SUBJECT SITE WERE PROVIDED BY W. DEXTER BENDER AND ASSOCIATES, INC.

P:\JOBS\Active\15-0413\Cadd\Roadway\072 DEWATERING PLAN.dwg 8/27/2019 9:10 AM

NO.	DATE	REVISION
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2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

NOT AUTHORIZED FOR CONSTRUCTION
UNLESS SIGNED IN THIS BLOCK

AIM Engineering & Surveying, Inc.
CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
• PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
2161 FOWLER ST. FORT MYERS, FL 33901
E-Mail: engineering@aimengr.com
TELE: 239-332-4569
CERTIFICATION OF AUTHORIZATION No. 3114

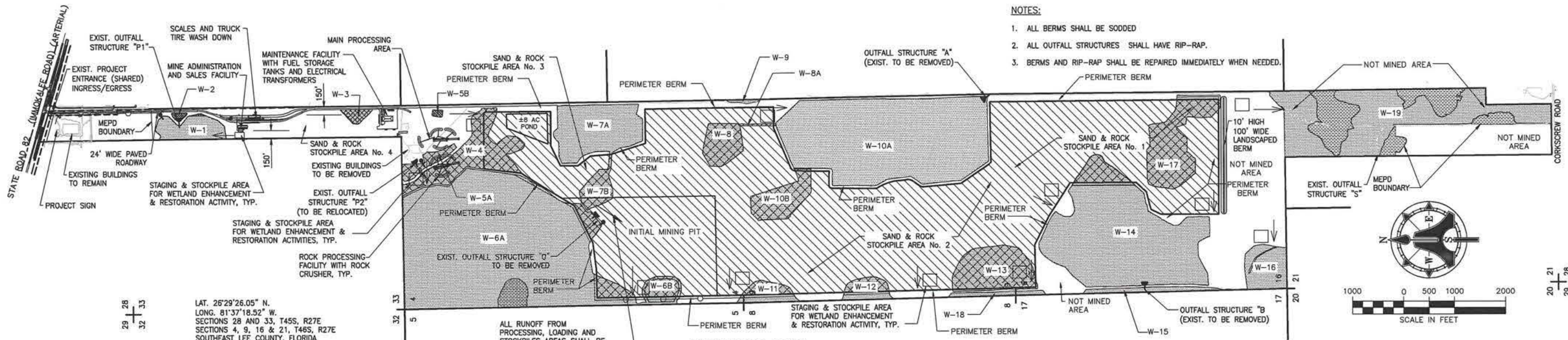
TROYER BROTHERS FLORIDA, INC.
14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913
PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
DATE: JAN. 16, 2017
MRA/REK/BK

TROYER BROTHERS MINE
COMMUNITY DEVELOPMENT
DEWATERING PLAN

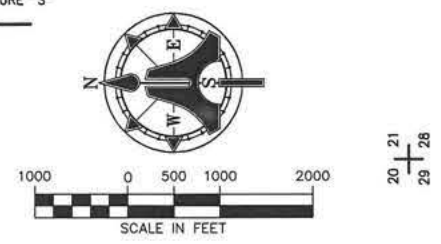
NAVD 88
SHEET 7

DCI 2016-00025



- NOTES:**
1. ALL BERMS SHALL BE SODDED
 2. ALL OUTFALL STRUCTURES SHALL HAVE RIP-RAP.
 3. BERMS AND RIP-RAP SHALL BE REPAIRED IMMEDIATELY WHEN NEEDED.

28 33
29 32
LAT. 26°29'26.05" N.
LONG. 81°37'18.52" W.
SECTIONS 28 AND 33, T45S, R27E
SECTIONS 4, 9, 16 & 21, T46S, R27E
SOUTHEAST LEE COUNTY, FLORIDA

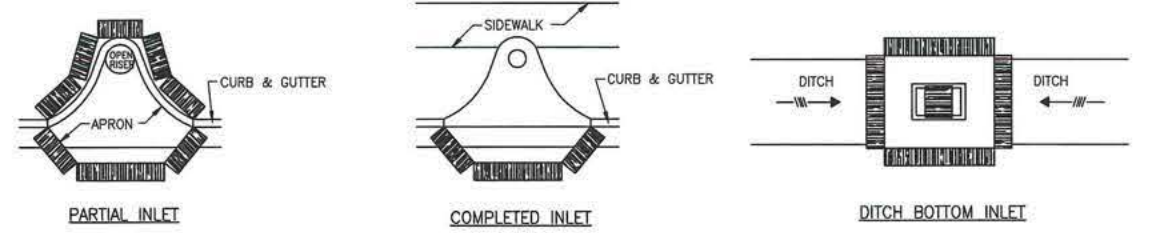


NOTES: EROSION CONTROL

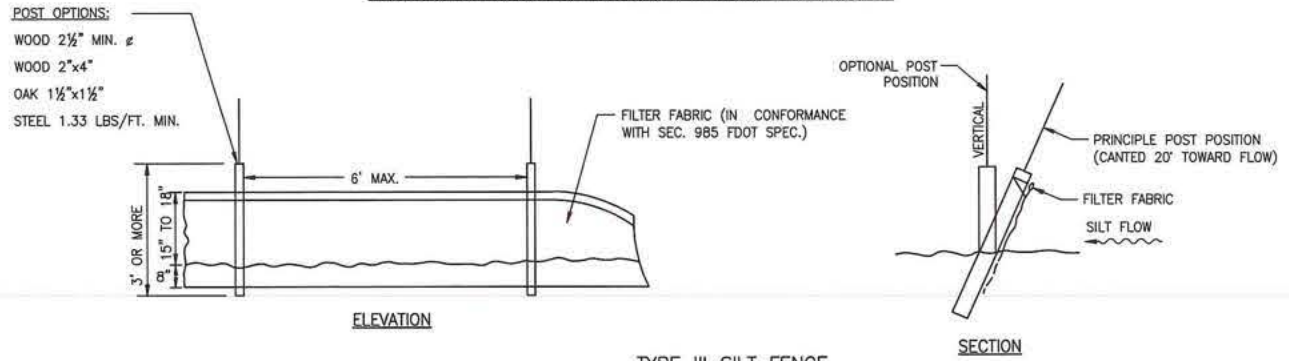
1. THE CONTRACTOR SHALL USE TEMPORARY EROSION CONTROLS TO PREVENT SILTATION OF EXISTING UTILITY AND STORMWATER DRAIN ENTRANCES, DRAINAGE DITCHES, WATER BODIES, WETLANDS AND ADJACENT PROPERTY.
2. PRIOR TO DEWATERING, THE SETTLING BASIN, DISCHARGE PIPES AND HAY BALES SHALL BE INSTALLED. ALL LAKE DEWATERING SHALL UTILIZE THESE FACILITIES TO AVOID EROSION AND SILTATION.
3. THE CONTRACTOR SHALL SOD, SEED AND MULCH UPON FINAL GRADING TO LIMIT EROSION AND SILTATION.
4. THE CONTRACTOR SHALL MONITOR, MAINTAIN AND CORRECT DEFICIENCIES OF THE EROSION CONTROL AND DEWATERING FACILITIES DAILY.
5. THE CONTRACTOR SHALL MONITOR, MAINTAIN AND CORRECT DEFICIENCIES OF THE EROSION CONTROL FACILITIES DAILY.
6. AT THE CONSTRUCTION ENTRANCE 6" THICK GRAVEL SHALL BE PLACED ON FILTER FABRIC TO REMOVE SOIL FROM TRUCK TIRES, PRIOR TO ENTERING THE HIGHWAY.
7. A SILT FENCE OR GRASSED BERM SHALL BE PLACED AROUND THE WORK SITE.
8. STOCKPILING OF SAND AND ROCK MATERIALS ON-SITE IS LIMITED TO THE AREAS DEPICTED ON THE PLANS AND IS SUBJECT TO THE FOLLOWING SETBACKS AND CRITERIA:
 - A. SAND & ROCK STOCKPILE AREAS 1 AND 2 COINCIDE WITH THE MINE FOOTPRINT OF PIT AREAS 1 AND 2, RESPECTIVELY. STOCKPILING OF MATERIALS WITHIN THESE AREAS IS SUBJECT TO THE SAME SETBACKS FROM PERIMETER PROPERTY LINES AND ON-SITE WETLANDS AS THE RESPECTIVE PIT EXCAVATION SETBACKS DEPICTED ON THE TYPICAL MINING PIT SECTIONS SHOWN ON SHEETS 4 & 5 OF THE PLANS.
 - B. SAND & ROCK STOCKPILE AREA 3 IS THE MAIN MINE PROCESSING AREA. STOCKPILE AREA 4 IS LOCATED BETWEEN THE TRUCK SCALE AREA AND THE MAIN MINE PROCESSING AREA. STOCKPILES WITHIN AREAS 3 AND 4 SHALL NOT BE LOCATED CLOSER THAN 150 FEET TO A PERIMETER PROPERTY LINE AND 50 FEET FROM AN ON-SITE WETLAND.
 - C. STOCKPILES SHALL NOT EXCEED 50 FEET IN HEIGHT.
 - D. WHEN WARRANTED TO CONTROL DUST AND IMPACTS TO NEARBY PRESERVATION AREAS, STOCKPILES SHALL BE WET DOWN OR COVERED WITH TARPS, GEOTEXTILE FABRICS, OR OTHER SIMILAR PRODUCTS THAT ARE PROPERLY TIED DOWN OR ANCHORED.
 - E. ALL STOCKPILE AREAS DESIGNATED ON THE PLANS ARE LOCATED WITHIN AREAS PROVIDED WITH STORMWATER MANAGEMENT SYSTEMS TO PREVENT ADVERSE IMPACTS FROM STORMWATER RUNOFF.

NOTES: AIR AND WATER QUALITY PROTECTION

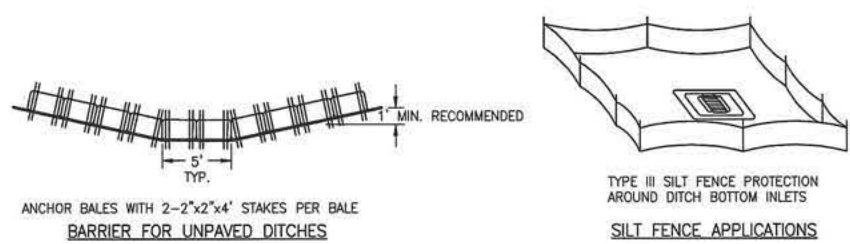
1. EROSION AND SEDIMENTATION CONTROL BMP'S IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN (ECP) OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFFSITE STORMWATER CONVEYANCES, OR OFFSITE RECEIVING WATERS. BMP'S SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. (THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.)
2. OFF SITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTU'S) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
3. THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
4. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATER BODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



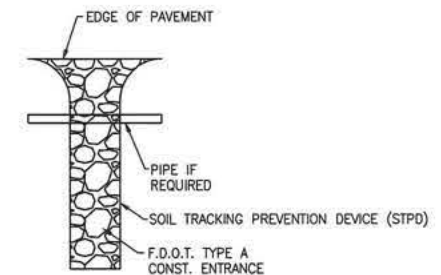
TYPE III SILT FENCE



BALED HAY OR STRAW BARRIERS AND SILT FENCE

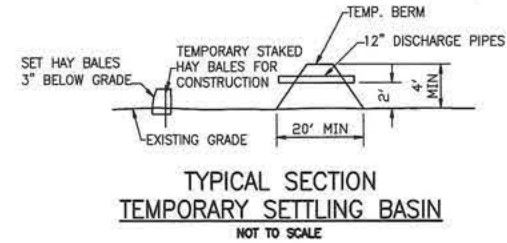
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NOT TO SCALE



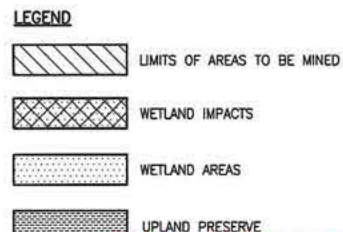
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NOT TO SCALE

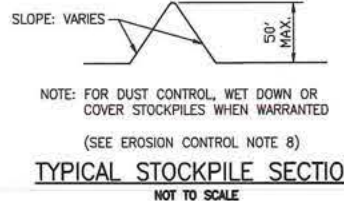


TYPICAL SECTION TEMPORARY SETTLING BASIN

NOT TO SCALE



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MCP Page 8 of 44
Resolution # 2-15-022



TYPICAL STOCKPILE SECTION

NOT TO SCALE

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WETLANDS NOTE: JURISDICTIONAL WETLANDS ON THIS SUBJECT SITE WERE PROVIDED BY W. DEXTER BENDER AND ASSOCIATES, INC.

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COMMUNITY DEVELOPMENT

P:\JOBS\Active\15-0413\cadd\Roadway\08. EROSION CONTROL.PLAN.dwg 8/28/2019 4:16 PM

NO.	DATE	REVISION
3	8/21/19	ADDED 10' HIGH LANDSCAPED BERM, RELOCATED PROCESSING PLANTS
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

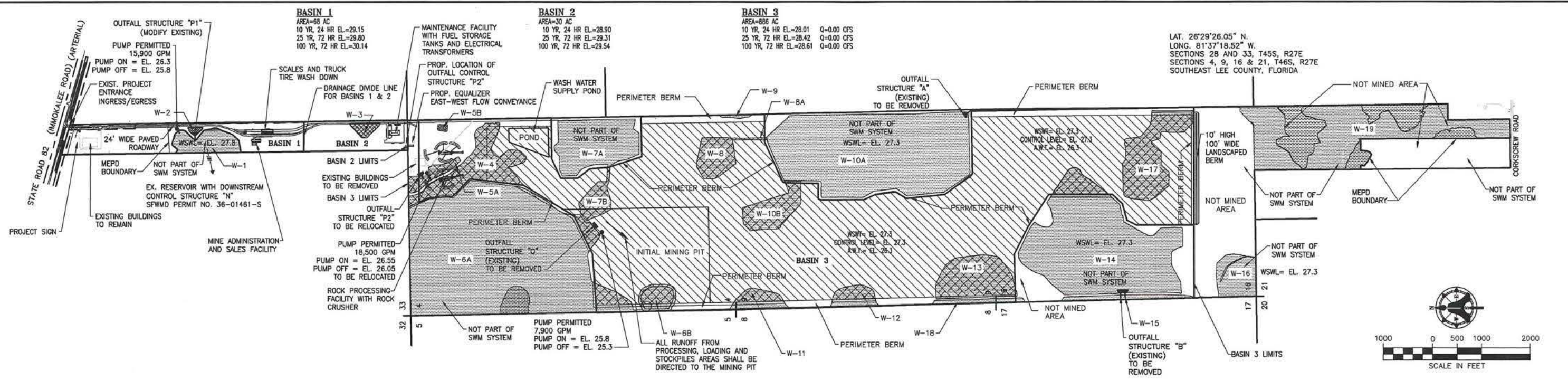
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PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
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E-Mail: engineering@aimengr.com
TELE: 239-332-4569
CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913
PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
DATE: JAN. 16, 2017
MRA/REK/BK

TROYER BROTHERS MINE
EROSION CONTROL PLAN
BEST MANAGEMENT PRACTICES
SHEET 8
0612016-00025



NOTES:

1. ALL BERMS SHALL BE SODDED
2. ALL OUTFALL STRUCTURES SHALL HAVE RIP-RAP.
3. BERMS AND RIP-RAP SHALL BE REPAIRED IMMEDIATELY WHEN NEEDED.

NOTE:

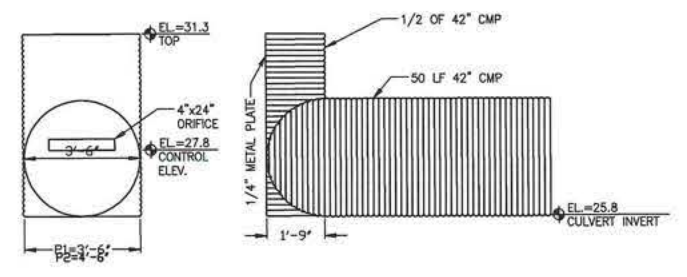
DURING MINING OPERATIONS, ALL OUTFALL STRUCTURES IN BASIN 3 ARE TO BE REMOVED, SO THAT ZERO DISCHARGE OCCURS THROUGH THE 100-YEAR STORM

NOTE:

THE LAKE SHALL HAVE A MAXIMUM DEPTH OF 110 FEET BELOW THE CONTROL ELEVATION / W.S.W.T. (27.3 NAVD), OR THE TOP OF THE CONFINING LAYER WHICHEVER COMES FIRST.

NOTE:

THE MINING PIT BERM SHALL BE MINIMUM EL. 31.8 NAVD.



(MODIFY EXISTING)
OUTFALL CONTROL STRUCTURE "P1" & "P2"
 BASIN 1 & 2
 NTS

LEGEND

- LIMITS OF AREAS TO BE MINED
- WETLAND IMPACTS
- WETLAND AREAS
- UPLAND PRESERVE

Approved as Exhibit C
 MCP Page 9 of 44
 Resolution # Z-18-088

RECEIVED
 AUG 30 2019

COMMUNITY DEVELOPMENT NAVD 88

P:\DBS\Active\15-0413\Cadd\Roadway\09) SWMP.dwg 8/27/2019 9:16 AM

NO.	DATE	REVISION
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2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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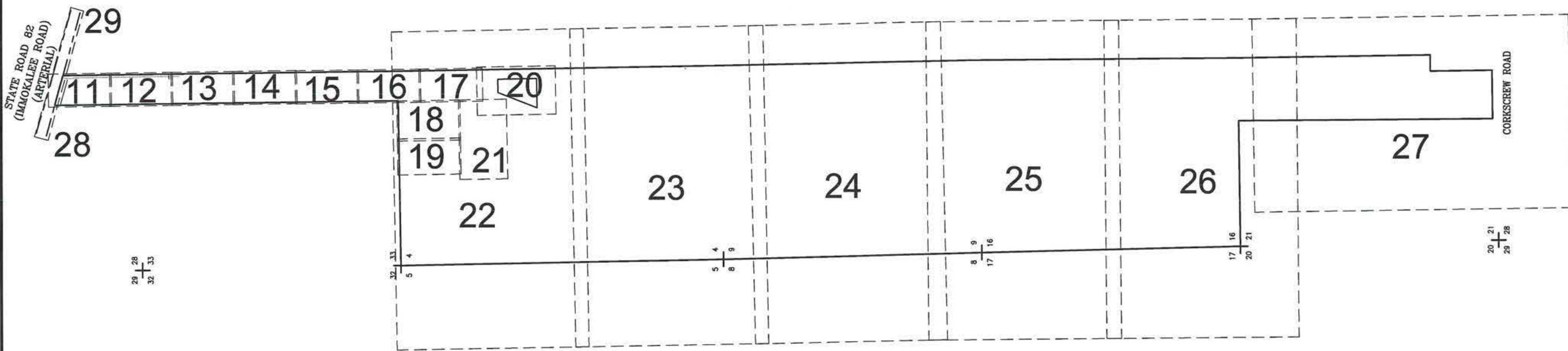
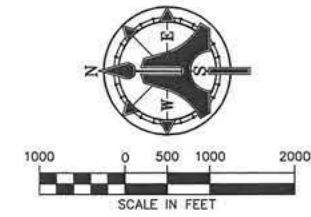
AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES
 * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT
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 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 SURFACE WATER MANAGEMENT PLAN

SHEET 9
 0012016-00025



Approved as Exhibit C
 MCP Page 10 of 44
 Resolution # 7-18-022

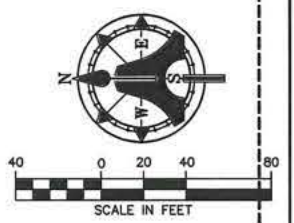
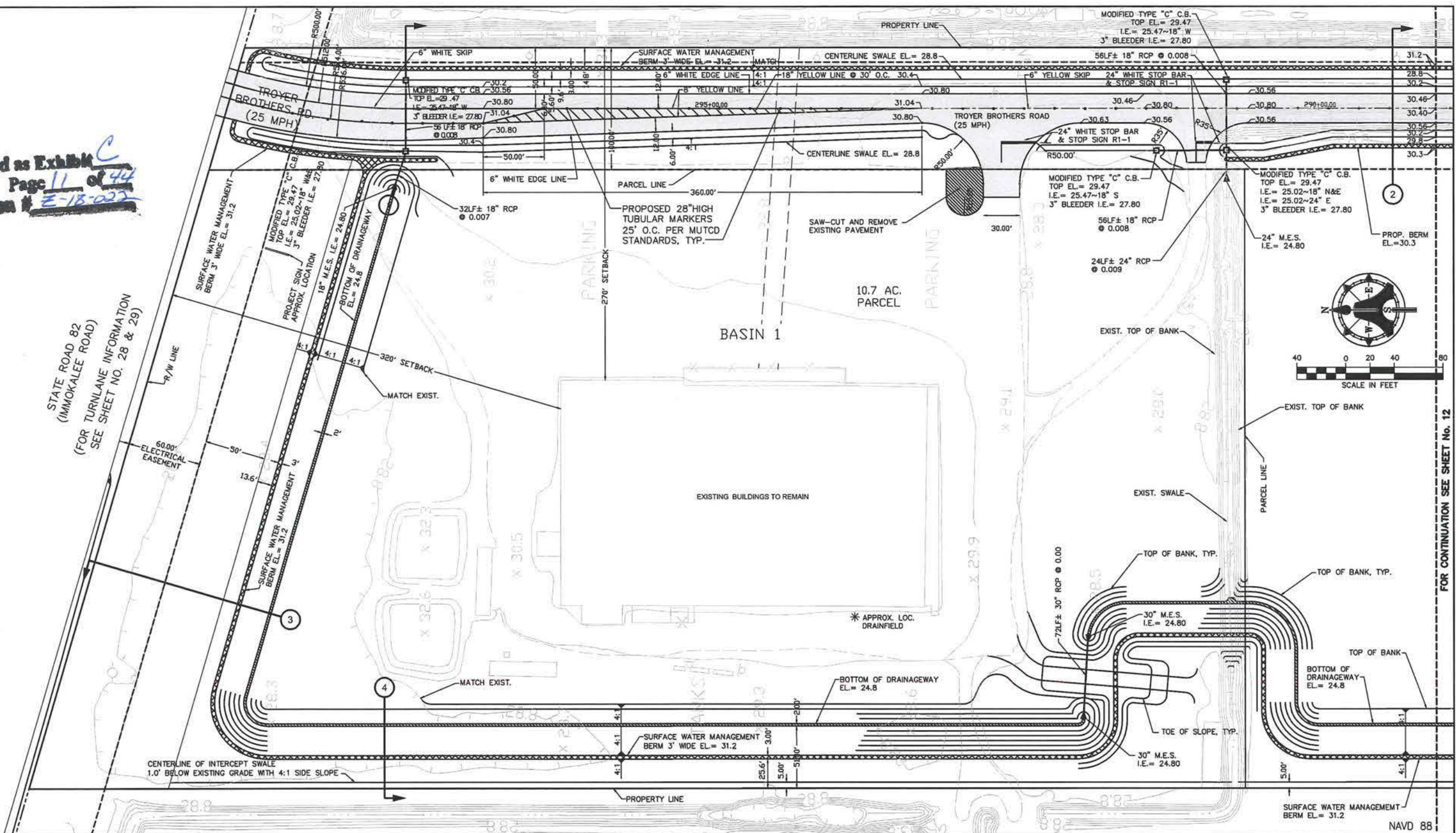
RECEIVED
 AUG 30 2019

		 AIM Engineering & Surveying, Inc. <small>CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT</small> <small>2161 FOWLER ST. FORT MYERS, FL. 33901 E-Mail: engineering@aimengr.com</small>		TROYER BROTHERS FLORIDA, INC. <small>14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913 PHONE: (239) 860-3728 FAX: (239) 303-1297</small>		<small>SCALE: AS-NOTED DATE: JAN. 16, 2017 MRA/REX/BK</small>	TROYER BROTHERS MINE KEY MAP SHOWING PLAN SHEET NUMBERS COMMUNITY DEVELOPMENT	SHEET 10
NO.	DATE	REVISION	<small>NOT AUTHORIZED FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK</small>					
1	6/5/17	REVISED PER LEE COUNTY						

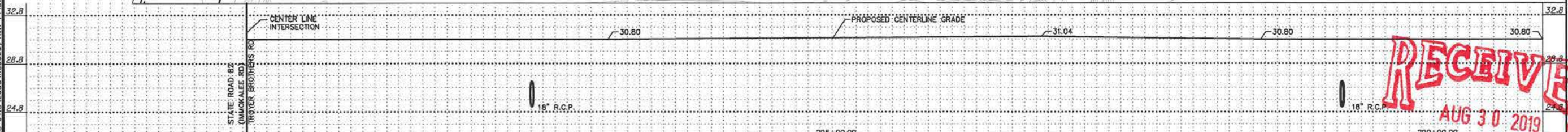
DCI 2016-00025

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 MCP Page 11 of 44
 Resolution # E-15-022

STATE ROAD 82
 (IMMOKALEE ROAD)
 (FOR TURVLANE INFORMATION
 SEE SHEET NO. 28 & 29)



FOR CONTINUATION SEE SHEET No. 12



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COMMUNITY DEVELOPMENT

NO.	DATE	REVISION
3	9/22/17	REVISIONS PER LEE COUNTY
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

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AIM Engineering & Surveying, Inc.
 UTILITIES * TRANSPORTATION * LAND DEVELOPMENT * PROJECT MANAGEMENT

2161 FOWLER ST.
 FORT MYERS, FL. 33901
 E-Mail: engineering@aimengr.com

TEL: 239-332-4588
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

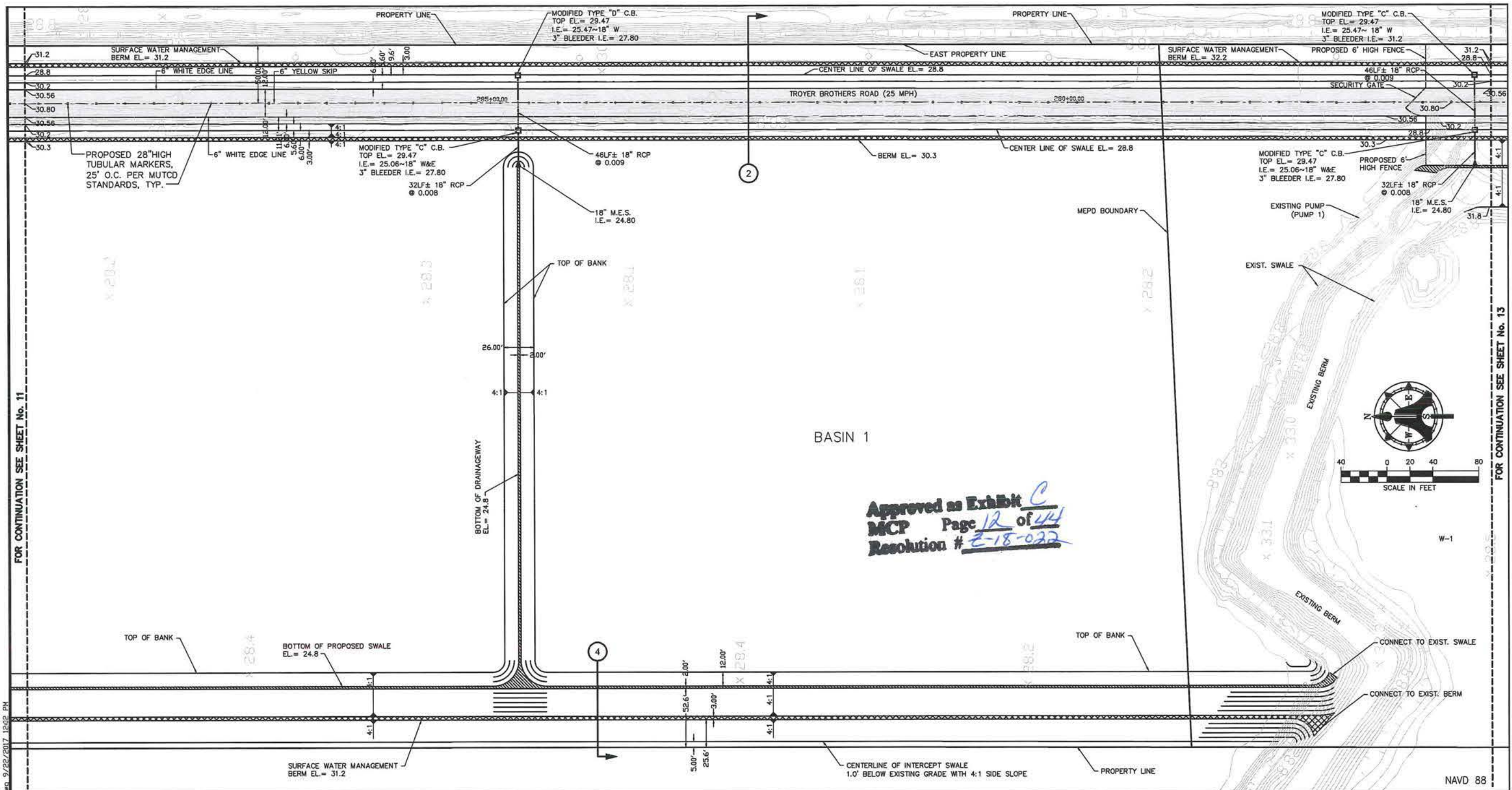
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 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 PLAN AND PROFILE
 STA. 300+00 TO STA. 289+00

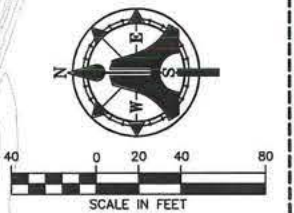
SHEET

DCI 2016-00025

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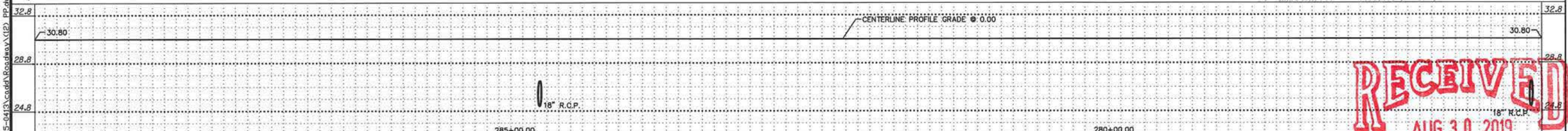


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 MCP Page 12 of 44
 Resolution # 2-18-022



FOR CONTINUATION SEE SHEET No. 11

FOR CONTINUATION SEE SHEET No. 13



NO.	DATE	REVISION
3	9/22/17	REVISIONS PER LEE COUNTY
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

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 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT

2161 FOWLER ST.
 FORT MYERS, FL 33901
 E-Mail: engineering@aimeng.com

TELE: 239-332-4669
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 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=40'
 DATE: JAN. 16, 2017
 MRA/REK/BK

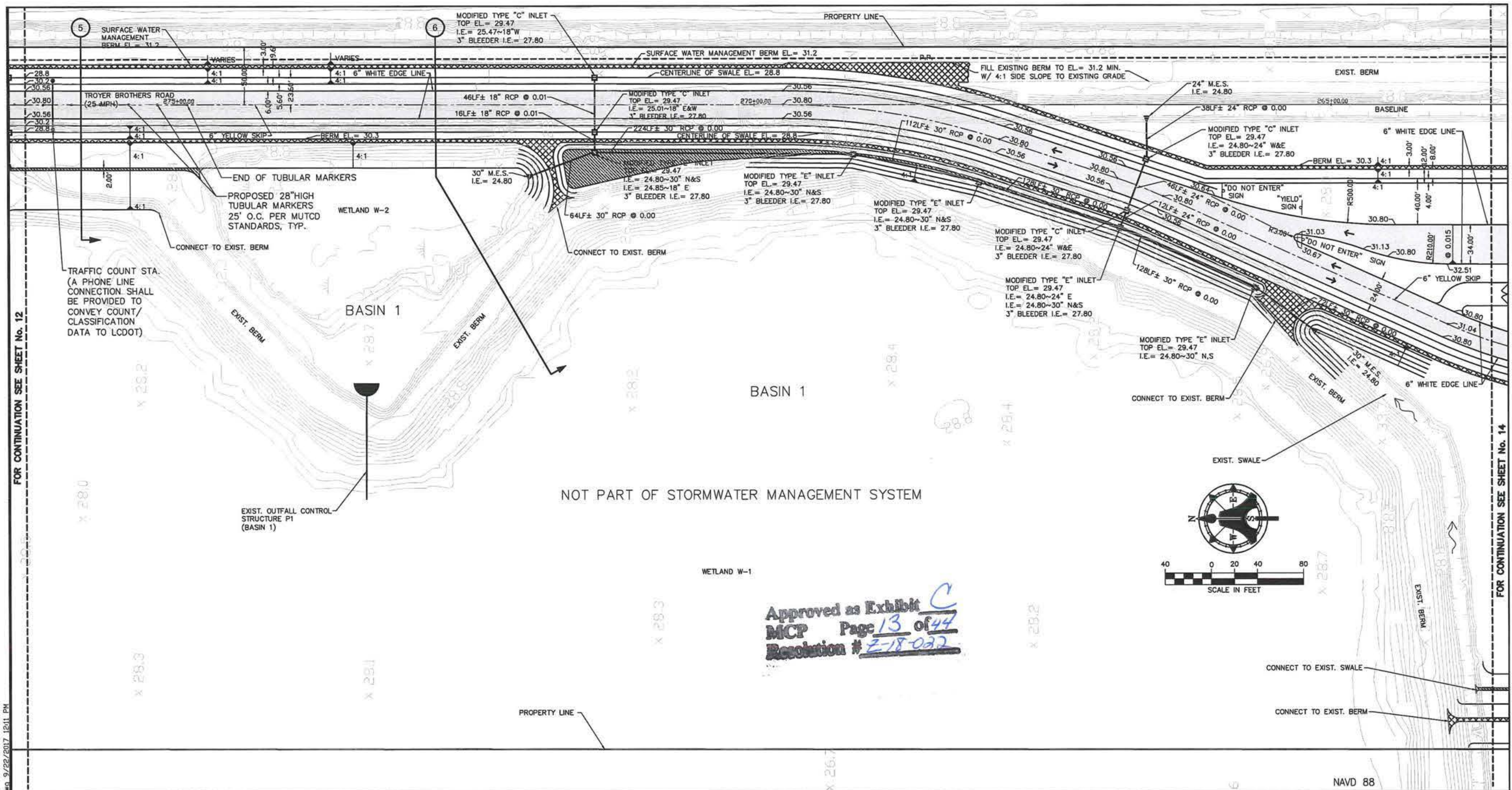
TROYER BROTHERS MINE
 PLAN AND PROFILE
 STA. 289+00 TO STA. 278+36

COMMUNITY DEVELOPMENT

SHEET 12

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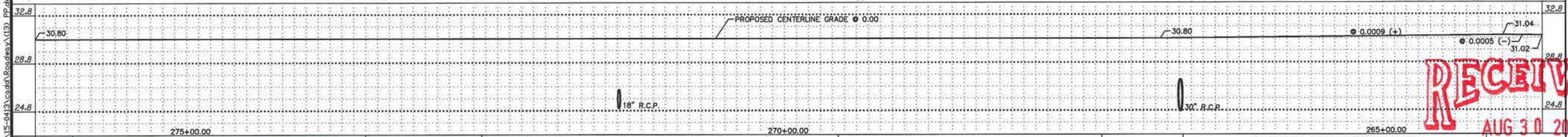


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FOR CONTINUATION SEE SHEET No. 14

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 MCP Page 13 of 44
 Resolution # 2-18-032

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NO.	DATE	REVISION
3	9/22/17	REVISIONS PER LEE COUNTY
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

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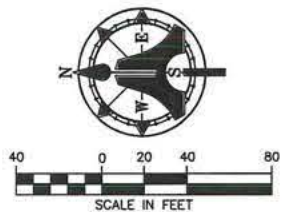
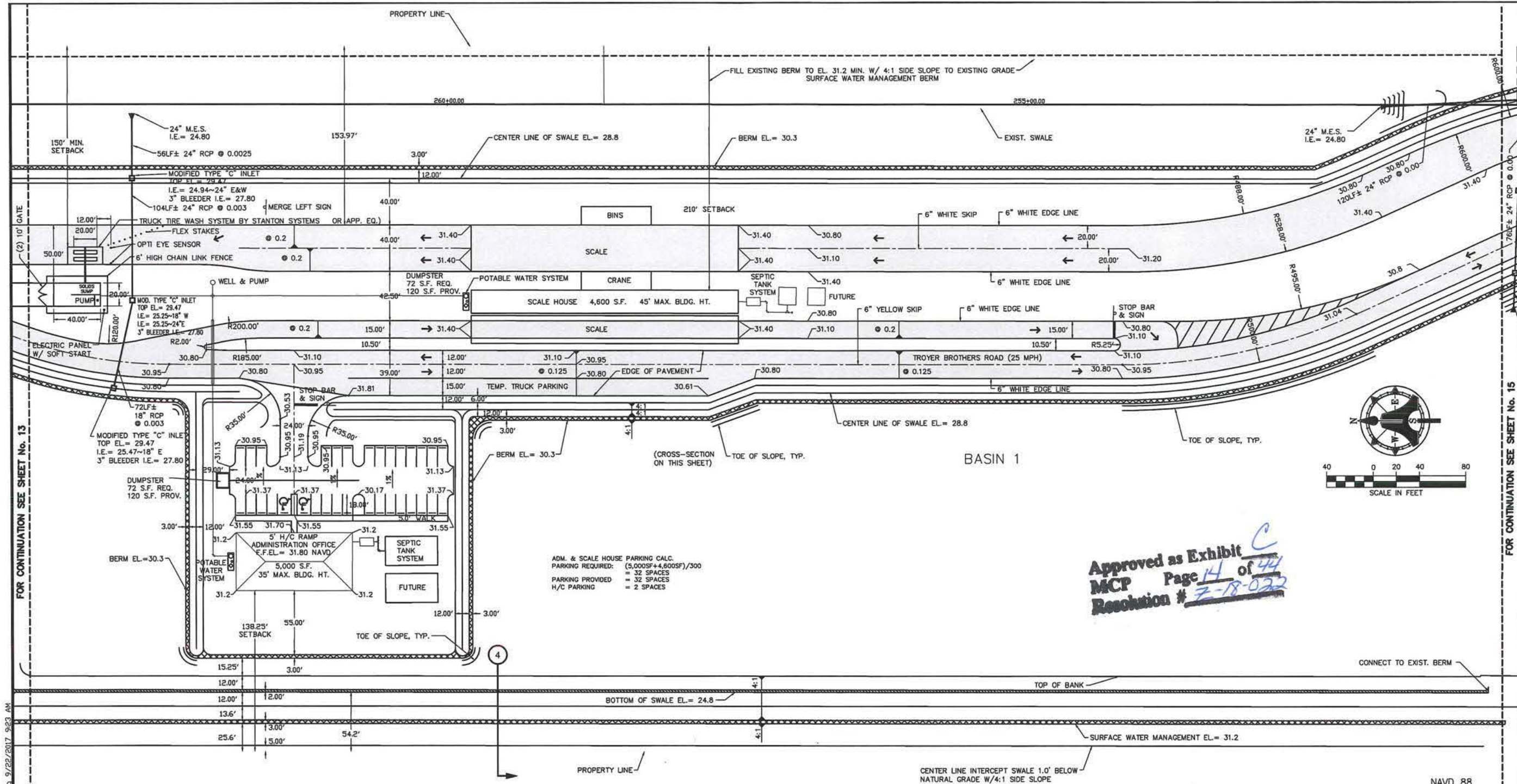
SCALE: 1"=40'
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 PLAN AND PROFILE
 STA. 276+35 TO STA. 263+65

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SHEET 18
 COMMUNITY DEVELOPMENT

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 MCP Page 14 of 44
 Resolution # 7-18-022

ADM. & SCALE HOUSE PARKING CALC.
 PARKING REQUIRED: (5,000SF+4,600SF)/300
 = 32 SPACES
 PARKING PROVIDED = 32 SPACES
 H/C PARKING = 2 SPACES



NO.	DATE	REVISION
3	9/22/17	REVISIONS PER LEE COUNTY
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

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 E-Mail: engineering@aimeng.com

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=40'
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 PLAN AND PROFILE
 STA. 263+65 TO STA. 250+95
 SHEET 14

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 AUG 30 2019

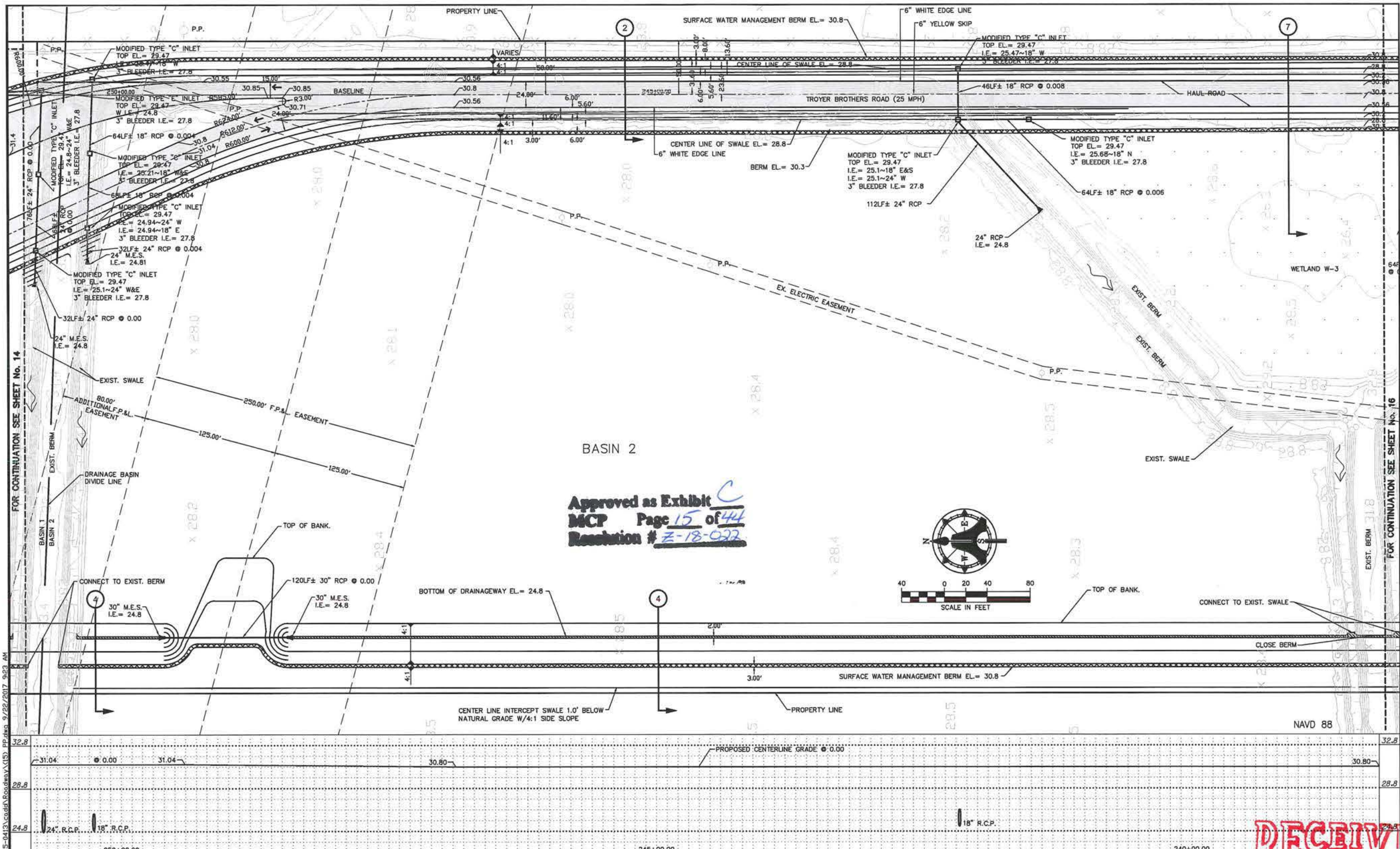
COMMUNITY DEVELOPMENT

DCI 2016-00025

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FOR CONTINUATION SEE SHEET No. 15



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 MCP Page 15 of 44
 Resolution # Z-18-022

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FOR CONTINUATION SEE SHEET No. 16

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NO.	DATE	REVISION
3	9/22/17	REVISIONS PER LEE COUNTY
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

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 2161 FOWLER ST. FORT MYERS, FL. 33901
 E-Mail: engineering@aimengr.com TELE: 239-332-4599
 CERTIFICATION OF AUTHORIZATION No. 3114

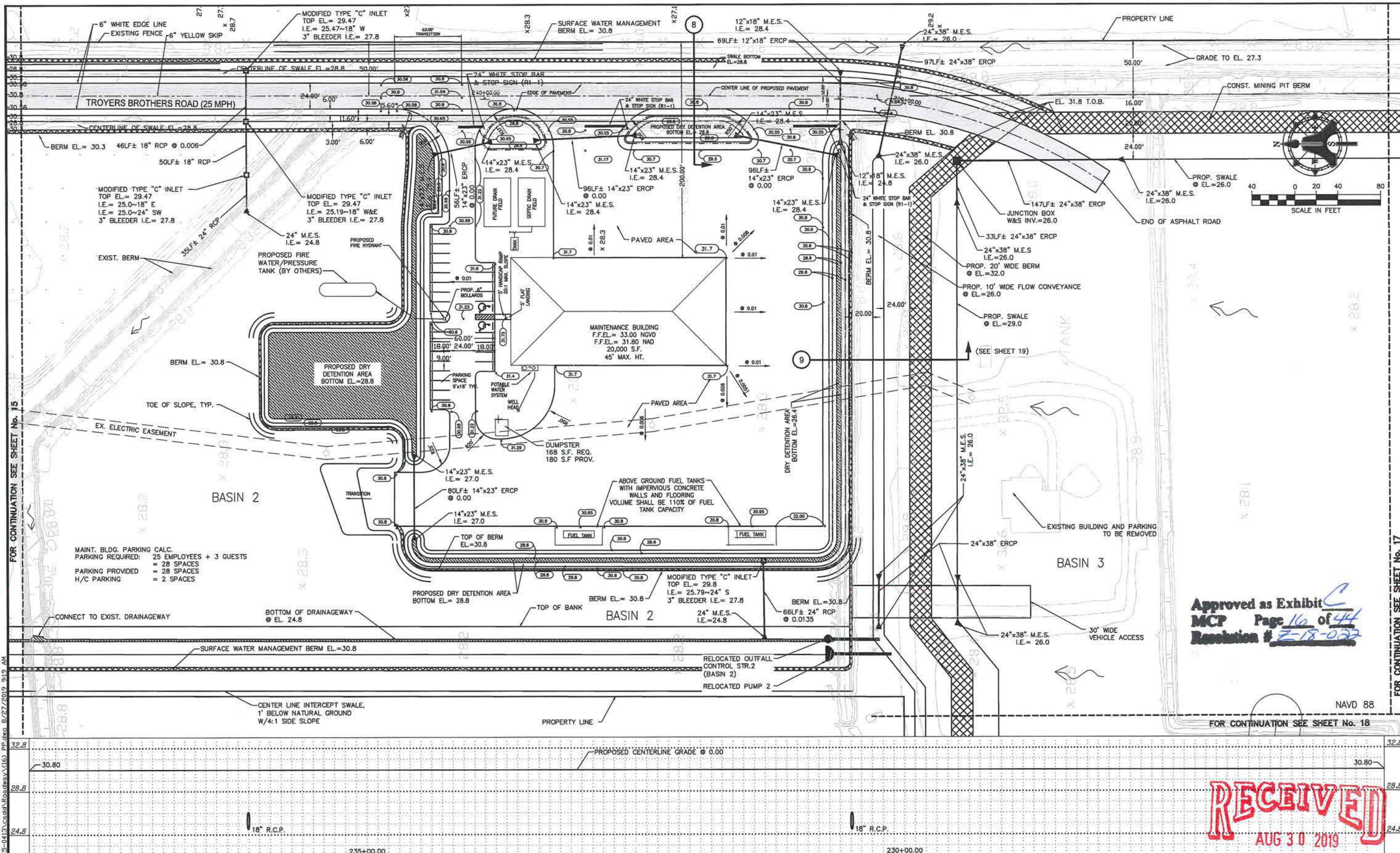
TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=40'
DATE: JAN. 16, 2017
MRA/REK/BK

TROYER BROTHERS MINE
 PLAN AND PROFILE
 STA. 250+95 TO STA. 238+25

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 MCP Page 16 of 44
 Resolution # 2-18-032

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NO.	DATE	REVISION
4	8/21/19	RELOCATED PROCESSING PLANTS
3	9/22/17	REVISIONS PER LEE COUNTY
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISIONS PER LEE COUNTY

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 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT

2161 FOWLER ST.
 FORT MYERS, FL 33901
 E-Mail: engineering@aimengr.com

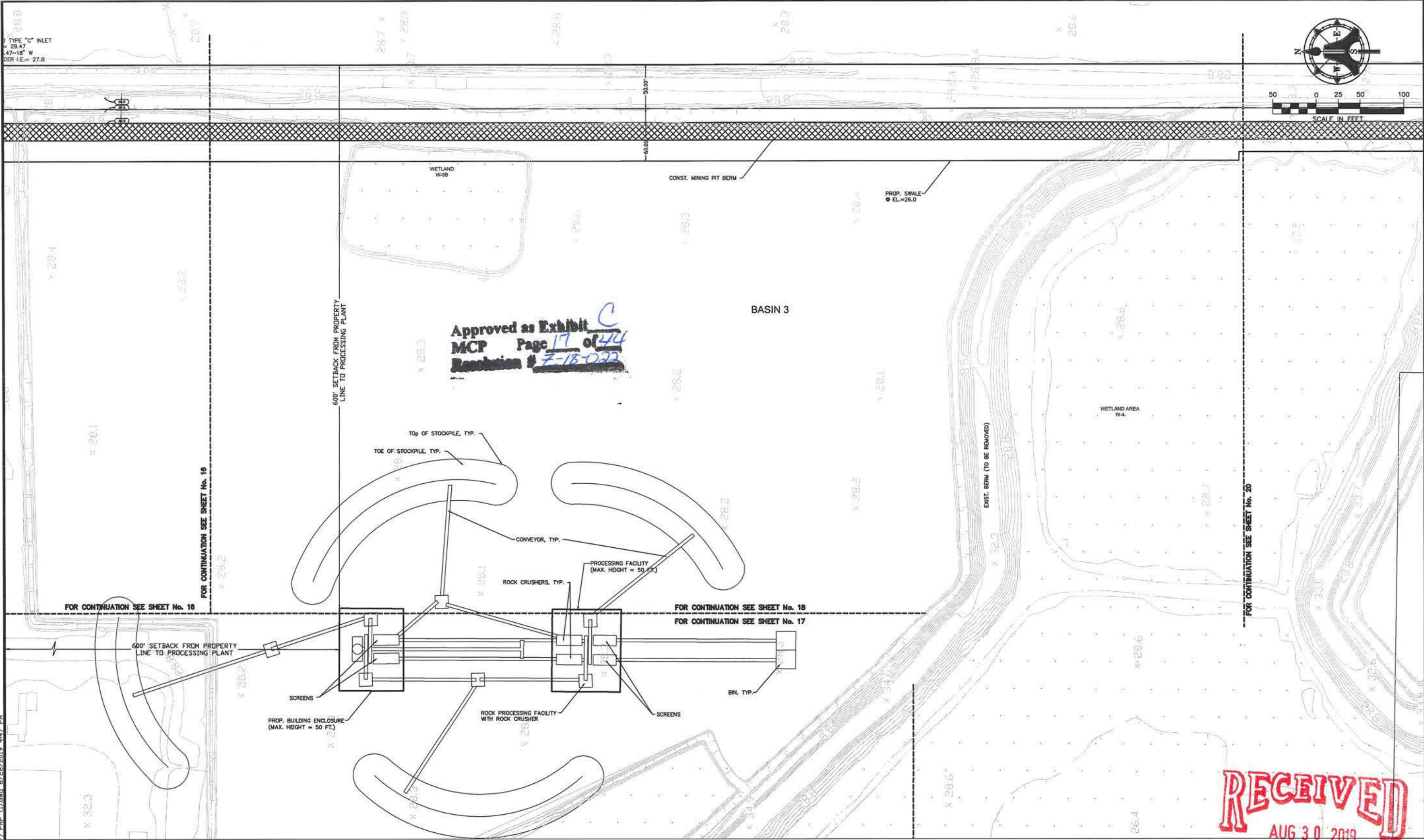
TELE: 239-332-4569
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=40'
 DATE: JAN. 16, 2017
 MRA/REX/BK

TROYER BROTHERS MINE
 COMMUNITY DEVELOPMENT
 PLAN AND PROFILE SHEET 16
 STA. 238+25 TO STA. 225+55

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NO.	DATE	REVISION
3	8/21/19	RELOCATED PROCESSING PLANTS
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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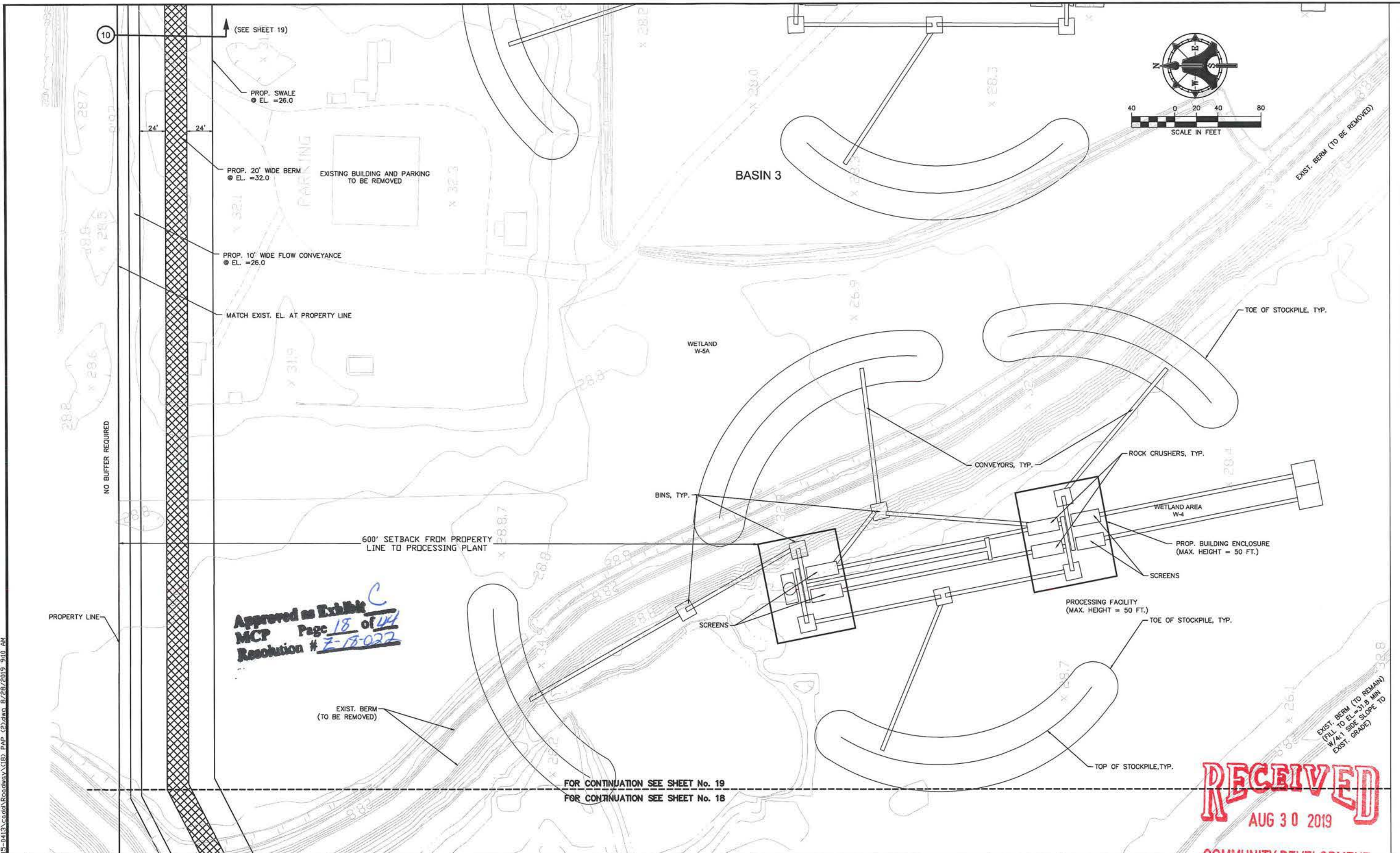
AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
 2161 FOWLER ST. FORT MYERS, FL 33901
 E-Mail: engineering@aimengr.com
 TELE: 239-332-4699
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=40'
DATE: JAN. 16, 2017
MRA/REK/BK

TROYER BROTHERS MINE
 COMMUNITY DEVELOPMENT
 PROCESSING AREA PLAN (1)
 SHEET 17

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 MCP Page 18 of 44
 Resolution # Z-18-022

FOR CONTINUATION SEE SHEET No. 19
 FOR CONTINUATION SEE SHEET No. 18

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NO.	DATE	REVISION
3	8/21/19	RELOCATED PROCESSING PLANTS
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
 2161 FOWLER ST. FORT MYERS, FL 33901
 E-Mail: engineering@aimengr.com
 TELE: 239-332-4569
 CERTIFICATION OF AUTHORIZATION No. 3114

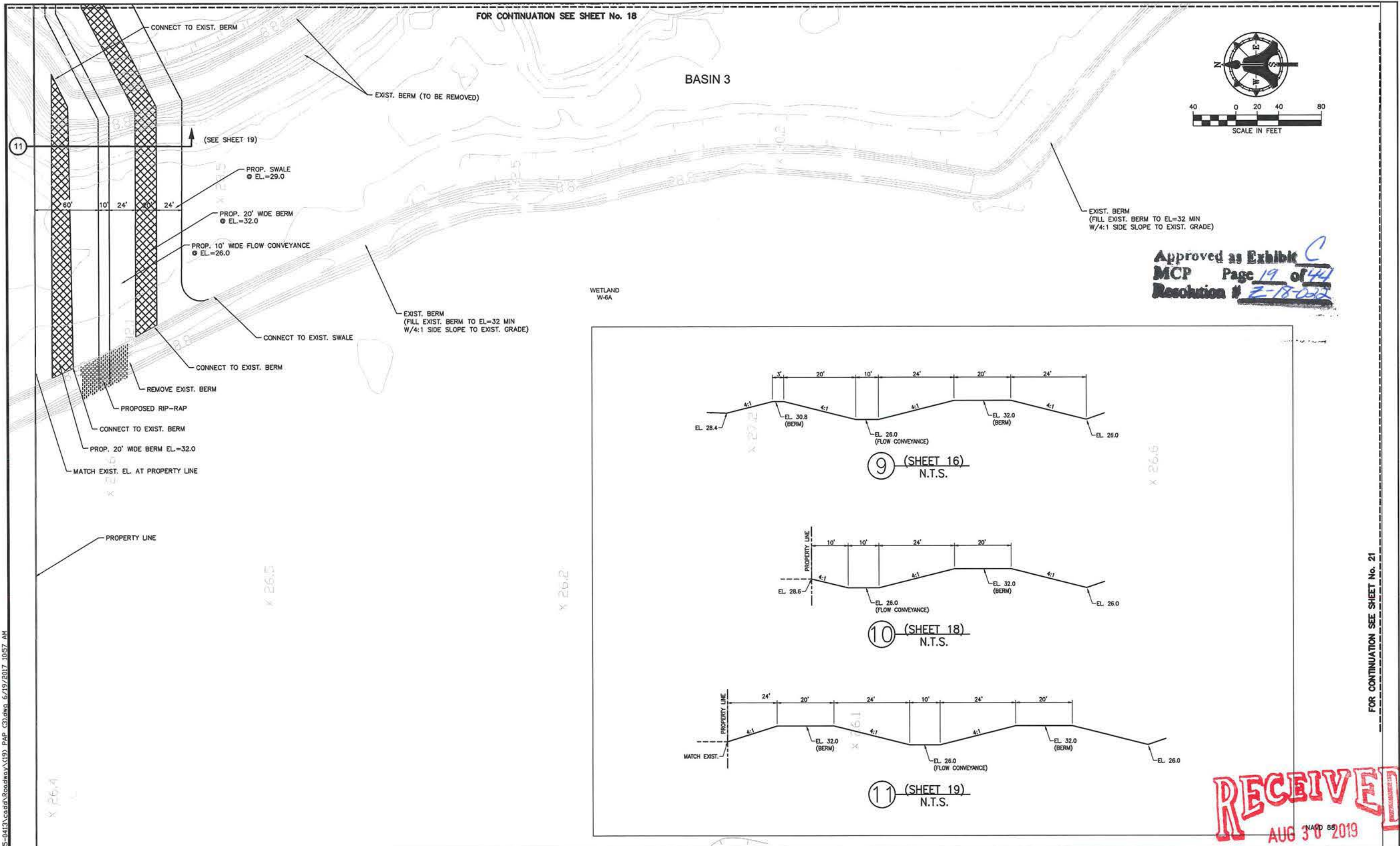
TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=40'
 DATE: JAN. 16, 2017
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TROYER BROTHERS MINE
 PROCESSING AREA PLAN (2)

SHEET 18

DC12016-00025



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NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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 CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES
 * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT
 2161 FOWLER ST. FORT MYERS, FL. 33901
 E-Mail: engineering@aimengr.com
 TELE: 239-332-4669
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

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 MRA/REX/BK

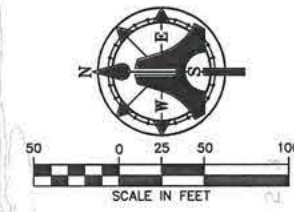
TROYER BROTHERS MINE
 PROCESSING AREA PLAN (3) SHEET 19
 COMMUNITY DEVELOPMENT

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 FOR CONTINUATION SEE SHEET No. 21



LEGEND
 [Hatched Box] LIMITS OF AREAS TO BE MINED

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 MCP Page **20** of **44**
 Resolution # **F-18-023**

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AUG 30 2019
 SHEET 20
 COMMUNITY DEVELOPMENT

NO.	DATE	REVISION
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 2161 FOWLER ST. FORT MYERS, FL 33901 TELE: 239-330-4569
 E-Mail: engineering@aimengr.com CERTIFICATION OF AUTHORIZATION No. 3114

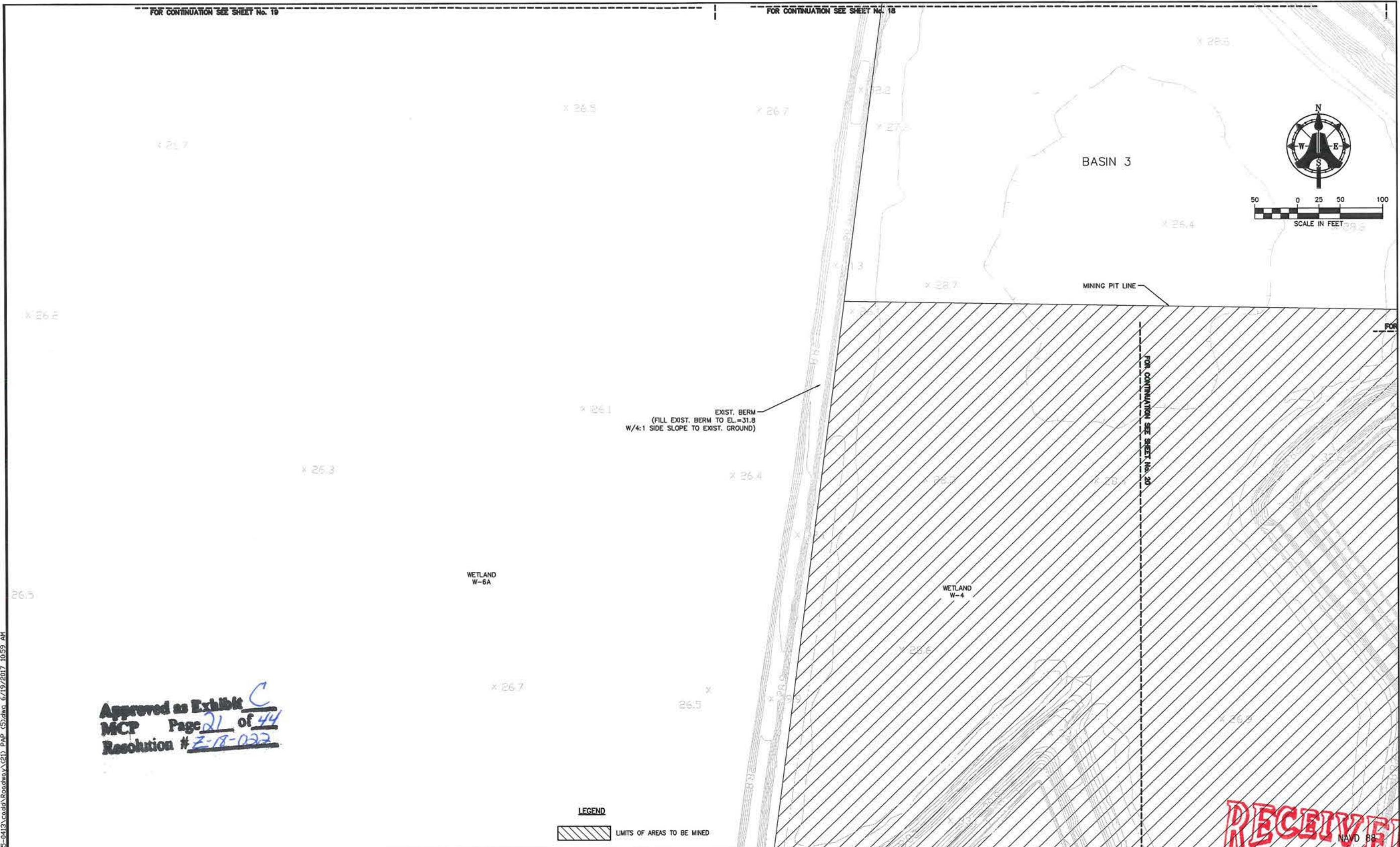
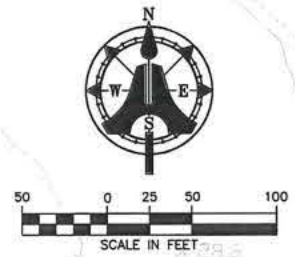
TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

TROYER BROTHERS MINE
 PROCESSING AREA PLAN (4)
 SCALE: 1"=50'
 DATE: JAN. 16, 2017
 MRA/REK/BK

DCI 2016-00025

FOR CONTINUATION SEE SHEET No. 19

FOR CONTINUATION SEE SHEET No. 18



EXIST. BERM
(FILL EXIST. BERM TO EL.=31.8
W/4:1 SIDE SLOPE TO EXIST. GROUND)

FOR CONTINUATION SEE SHEET No. 20

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MCP Page 21 of 44
Resolution # Z-18-032

LEGEND
LIMITS OF AREAS TO BE MINED

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AUG 30 2017
SHEET 21

NO.	DATE	REVISION
1	6/5/17	REVISED PER LEE COUNTY

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 FORT MYERS, FL. 33901
 E-Mail: engineering@aimengr.com

TELE: 239-332-4569
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TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

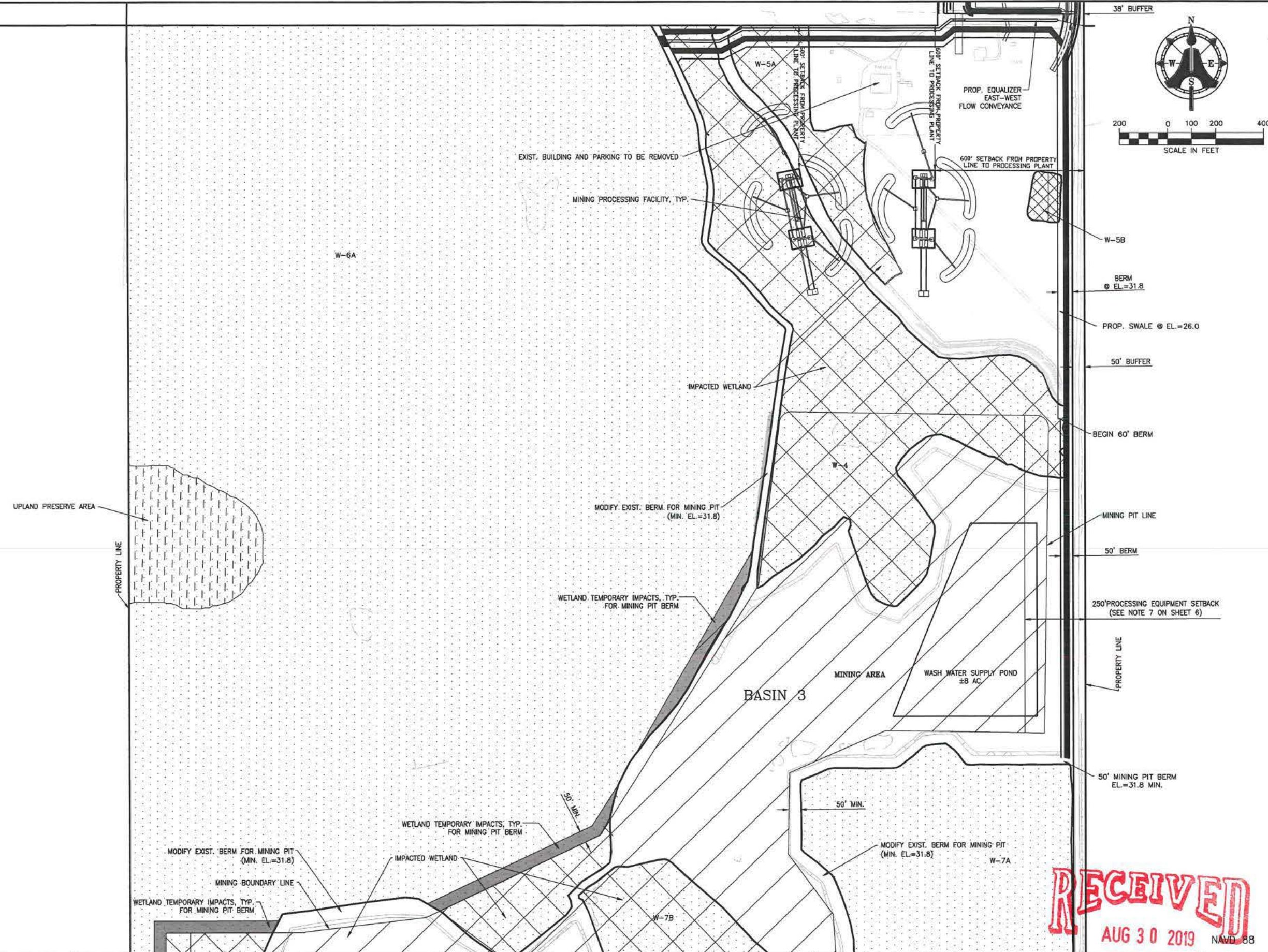
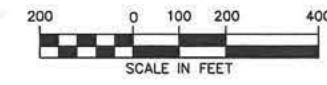
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DATE: JAN. 16, 2017
MRA/REK/BK

TROYER BROTHERS MINE
 PROCESSING AREA PLAN (5)

COMMUNITY DEVELOPMENT

DCI 2016-00025

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Resolution # 7-18-022

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AUG 30 2019 NAVD 88

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NO.	DATE	REVISION
3	8/21/19	RELOCATED PROCESSING PLANTS
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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UNLESS SIGNED IN THIS BLOCK

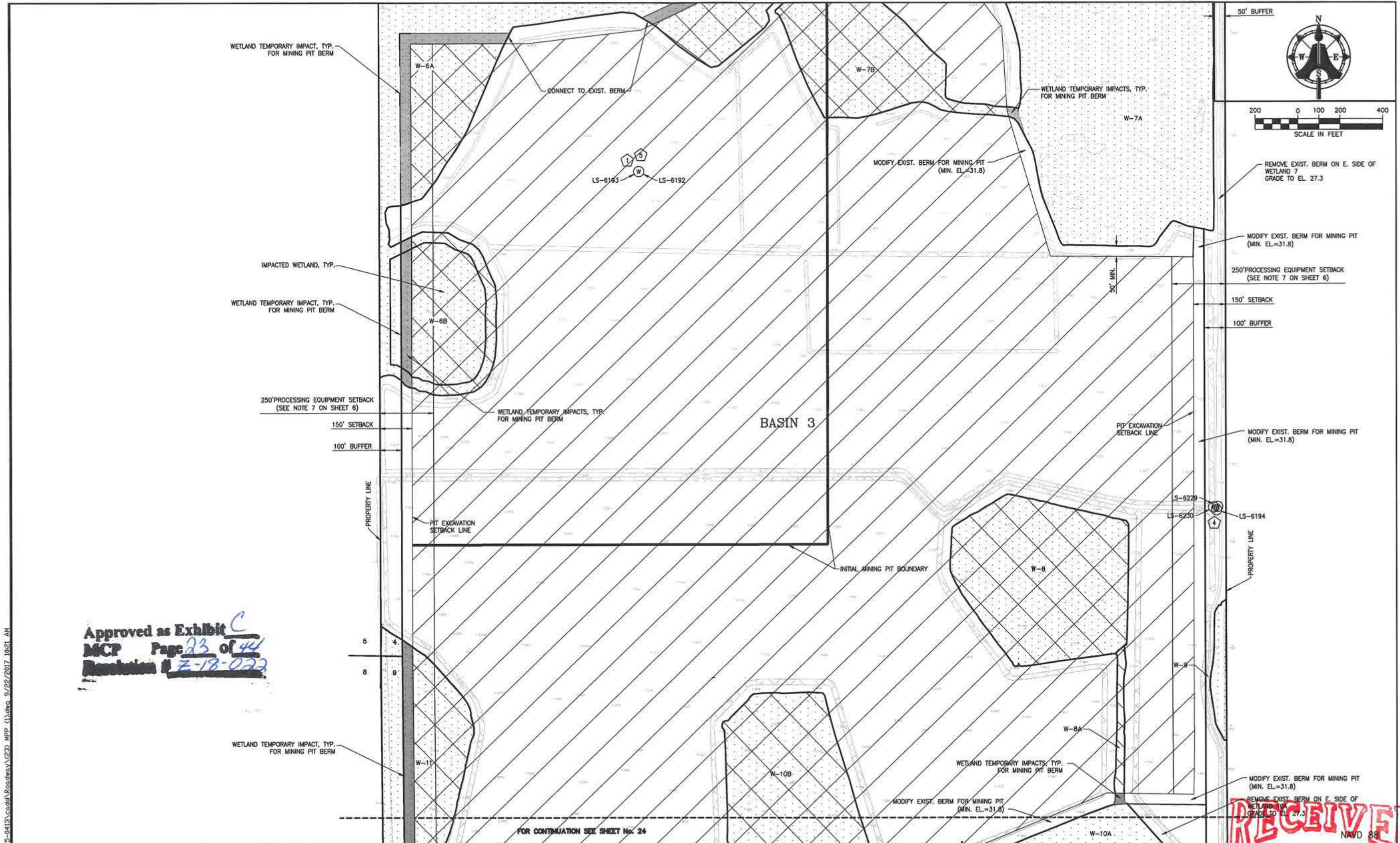


AIM Engineering & Surveying, Inc.
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• PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
2161 FOWLER ST. FORT MYERS, FL. 33901
E-Mail: engineering@aimengr.com
TELE: 239-332-4569
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TROYER BROTHERS FLORIDA, INC.
14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=200'
DATE: JAN. 16, 2017
MRA/REK/BK

TROYER BROTHERS MINE
COMMUNITY DEVELOPMENT
MINING PIT PLAN (1) SHEET 22
DCI 2016-00025



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 MCP Page 23 of 44
 Resolution # Z-18-022

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NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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 FORT MYERS, FL. 33901
 E-Mail: engineering@aimeng.com
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 14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

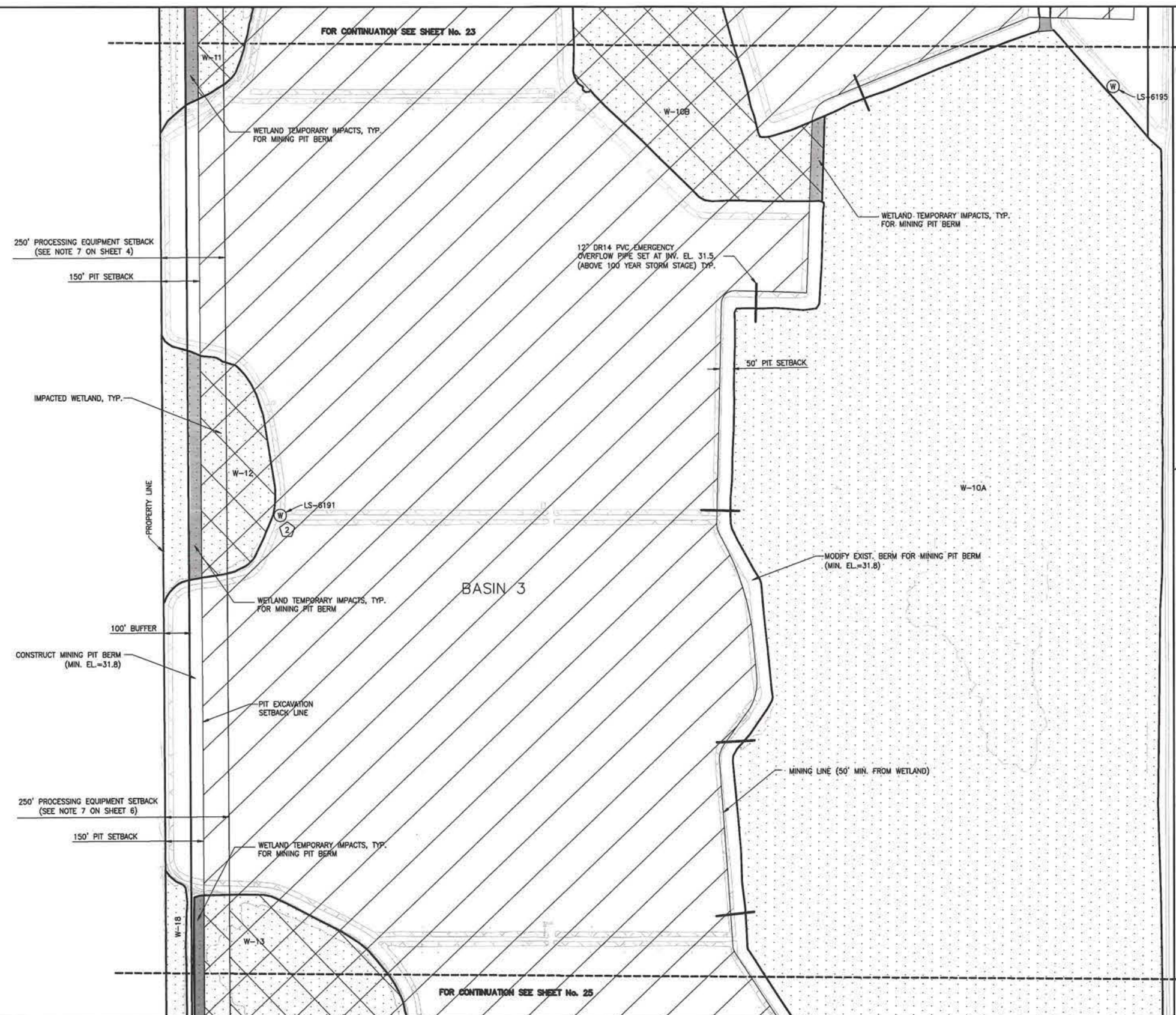
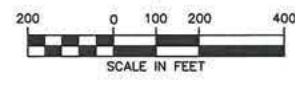
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 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 MINING PIT PLAN (2)
 AUG 30 2019
 SHEET 23

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COMMUNITY DEVELOPMENT

DCI 2016-00025



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MCP Page 24 of 44
Resolution # Z-18-022

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NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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2161 FOWLER ST.
FORT MYERS, FL 33901
E-Mail: engineering@aimeng.com
TELE: 239-332-4669
CERTIFICATION OF AUTHORIZATION No. 3114

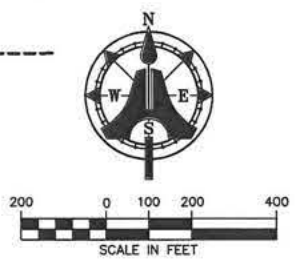
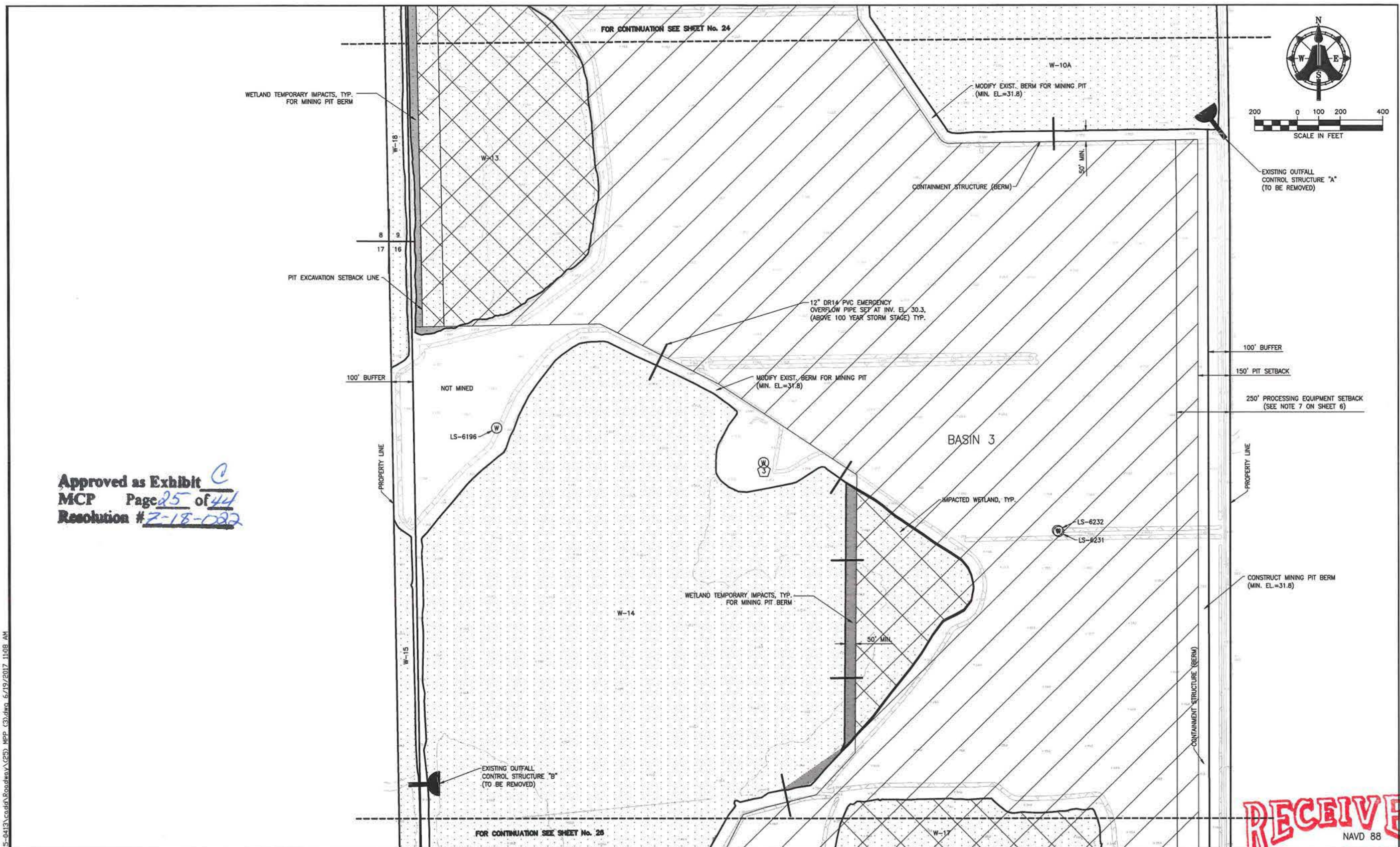
TROYER BROTHERS FLORIDA, INC.
14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=200'
DATE: JAN. 16, 2017
MRA/REX/BK

TROYER BROTHERS MINE
MINING PIT PLAN (3)

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NAVIG 86
SHEET 24
AUG 30 2019

COMMUNITY DEVELOPMENT
DEC 20 16-00025



Approved as Exhibit *c*
 MCP Page 25 of 44
 Resolution # 7-18-082

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 NAVD 88
 AUG 30 2019

NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED BY LEE COUNTY

NOT AUTHORIZED FOR CONSTRUCTION
 UNLESS SIGNED IN THIS BLOCK

AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
 2161 FOWLER ST. FORT MYERS, FL. 33901
 E-Mail: engineering@aimengr.com
 TELE: 239-325-4599
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=200'
 DATE: JAN. 16, 2017
 MRA/REK/BK

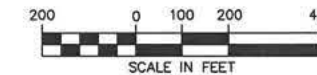
TROYER BROTHERS MINE
 MINING PIT PLAN (4)
 SHEET 25

COMMUNITY DEVELOPMENT

DCI 2016-00025

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FOR CONTINUATION SEE SHEET No. 25



BASIN 3

W-14

LS-6197

W-17

MODIFY EXIST. BERM FOR MINING PIT (MIN. EL.=31.8)

50' MIN.

NOT MINED

BASIN 3

BASIN 3 LIMIT

2400' ± 10' HIGH 100' WIDE W/ 20' TOP LANDSCAPED BERM

NOT MINED

NOT PART OF SWM SYSTEM

W-16

LS-6188

LS-6189

WETLAND TEMPORARY IMPACTS, TYP. FOR MINING BERM

100' BUFFER

150' PIT SETBACK

250' PROCESSING EQUIPMENT SETBACK (SEE NOTE 7 ON SHEET 6)

CONSTRUCT MINING PIT BERM (MIN. EL.=31.8)

PIT EXCAVATION LIMITS

100' BUFFER

PROPERTY LINE

PROPERTY LINE

100' BUFFER

PROPERTY LINE

PROPERTY LINE

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MCP Page 26 of 44
Resolution # Z-18-022

FOR CONTINUATION SEE SHEET No. 27

UPLAND PRESERVE

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AUG 30 2019
NAVD 88

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NO.	DATE	REVISION
3	8/21/19	ADDED 10' HIGH LANDSCAPED BERMS
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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 CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT

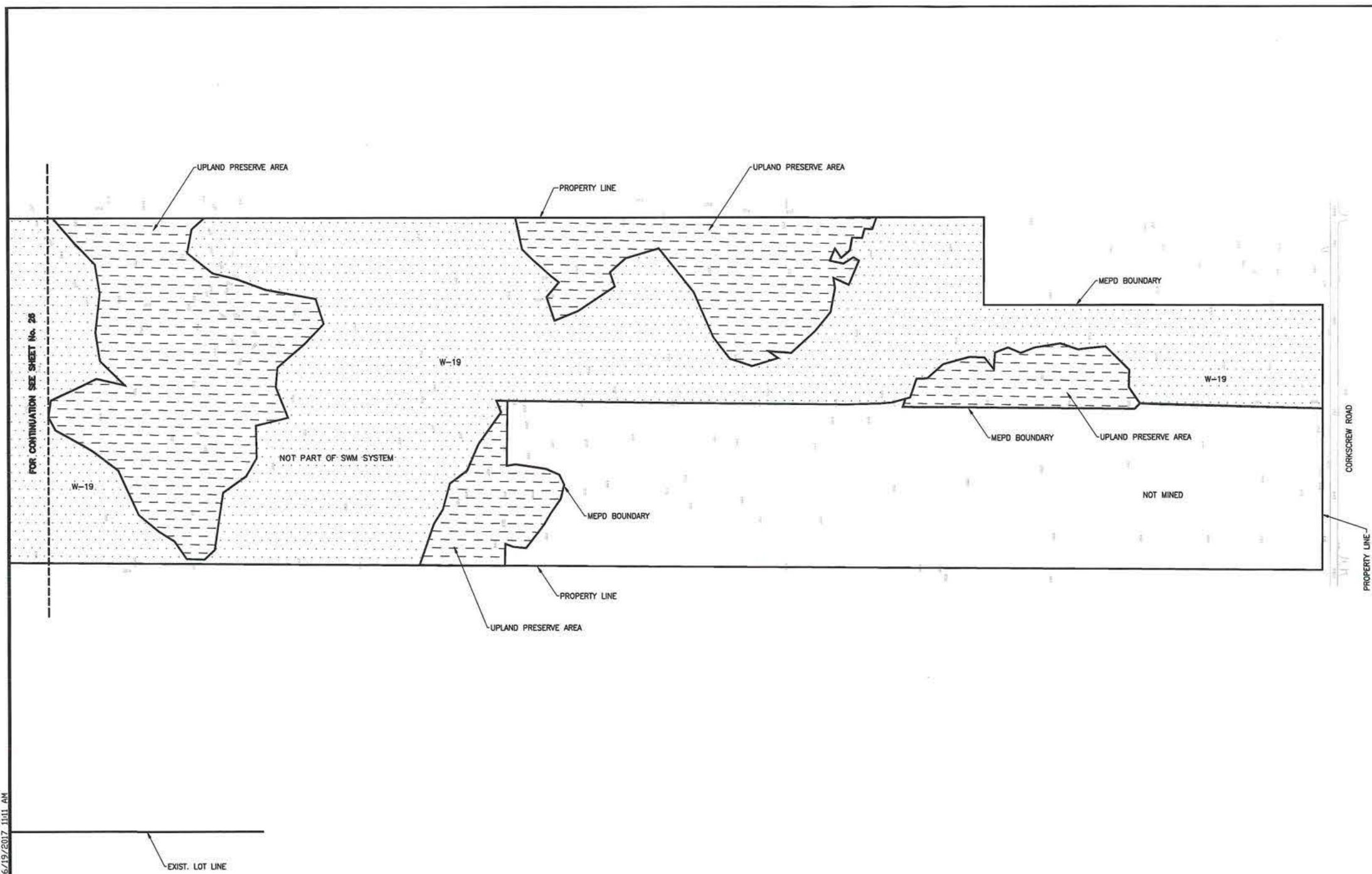
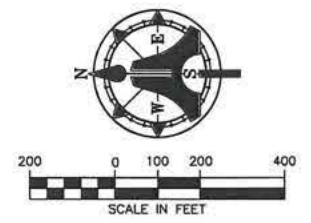
2161 FOWLER ST.
 FORT MYERS, FL 33901
 E-Mail: engineering@aimengr.com

TELE: 239-332-4969
 CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD, FT. MYERS, FL 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: 1"=200'
DATE: JAN. 16, 2017
MRA/REX/BK

TROYER BROTHERS MINE
 MINING PIT COMMUNITY DEVELOPMENT
 SHEET 26
 DEC 20 2016



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 MCP Page 27 of 44
 Resolution # E-18-002

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 NAVD 88
 AUG 30 2017
 SHEET 27

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NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

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 CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES
 * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT

2161 FOWLER ST. TELE: 239-332-4699
 FORT MYERS, FL. 33901 CERTIFICATION OF AUTHORIZATION No. 3114
 E-Mail: engineering@aimeng.com

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 14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

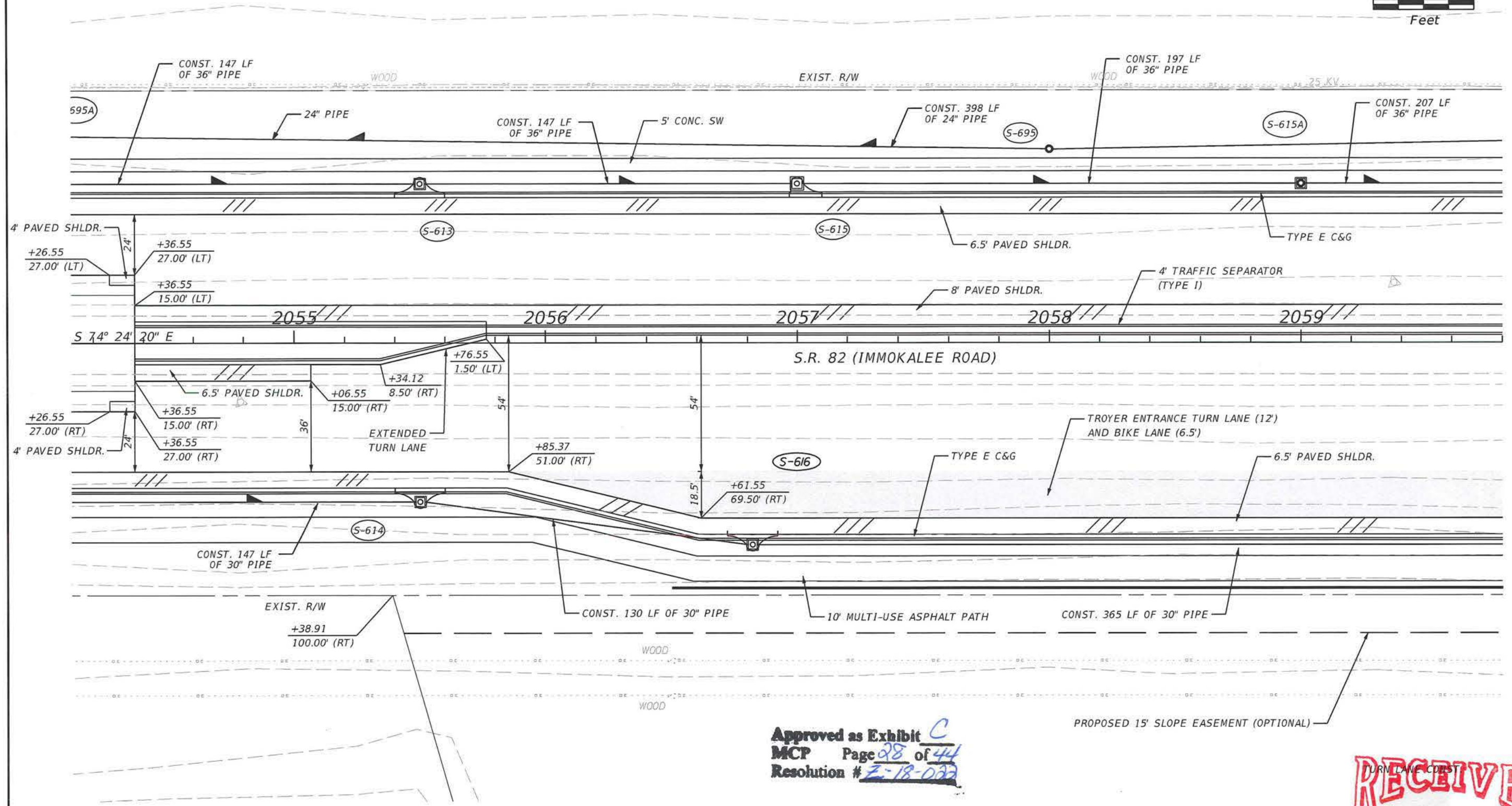
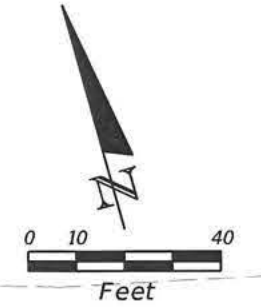
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 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 MINING PIT PLAN (6)

COMMUNITY DEVELOPMENT

NC12018-00025

FDOT PROGRAM ED HIGHWAY IMPROVEMENTS PLAN
SHOWING MINOR ADJUSTMENTS FOR TROYER ENTRANCE

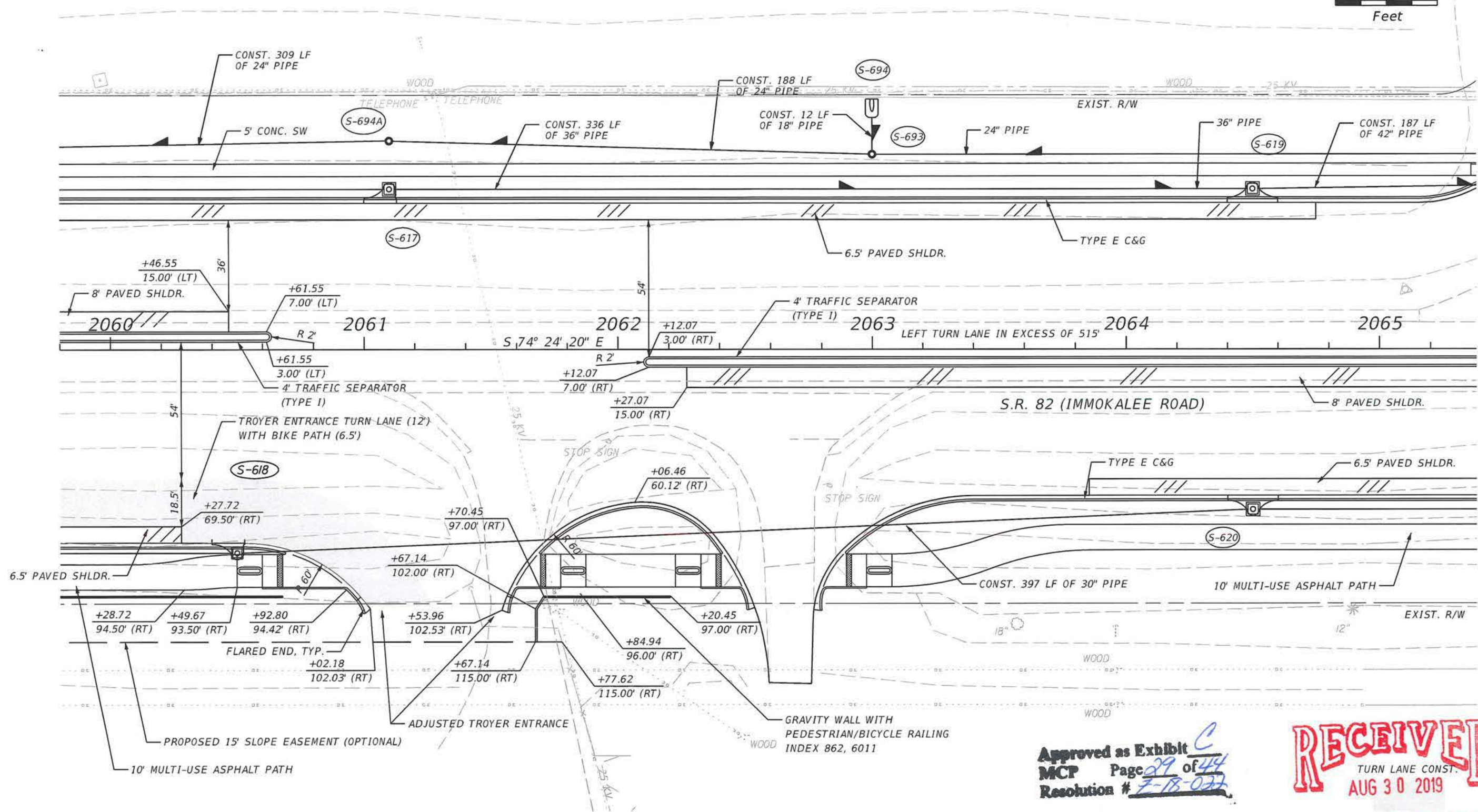
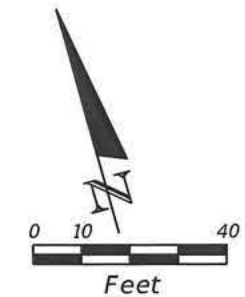


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MCP Page **28** of **44**
Resolution # **2-18-022**

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AUG 30 2019

REVISIONS				AIM Engineering & Surveying, Inc. 2160 Alicia St. Fort Myers, Florida 33901 239-332-4569 Ronald Kerfoot, P.E. 20768 Certificate of Authorization No. 00003114	ADJUSTMENTS TO FDOT PLANS BY AIM ENGINEERING & SURVEYING, INC.			TROYER ROAD TURN LANE/ ENTRANCE COMMUNITY DEVELOPMENT 28	SHEET NO. 001-2016-00025
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					82	LEE	425841-3-52-01		

FDOT PROGRAMMED HIGHWAY IMPROVEMENTS PLAN
SHOWING MINOR ADJUSTMENTS FOR TROYER ENTRANCE



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MCP Page 29 of 44
Resolution # 2-18-022

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TURN LANE CONST.
AUG 30 2019

COMMUNITY DEVELOPMENT

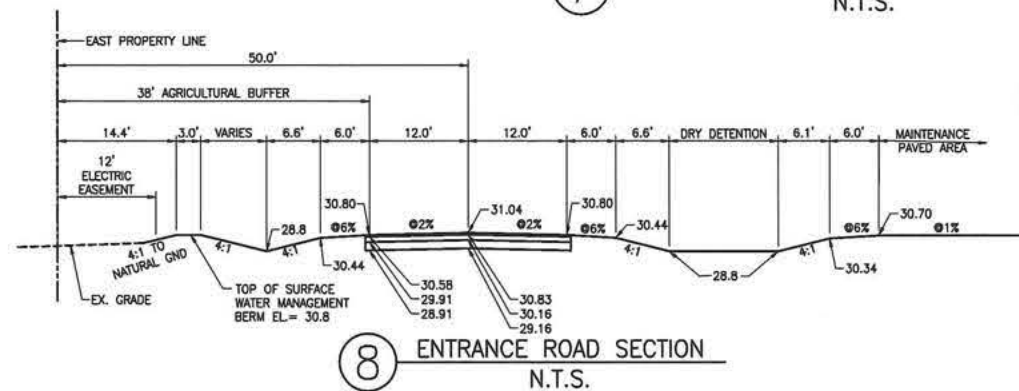
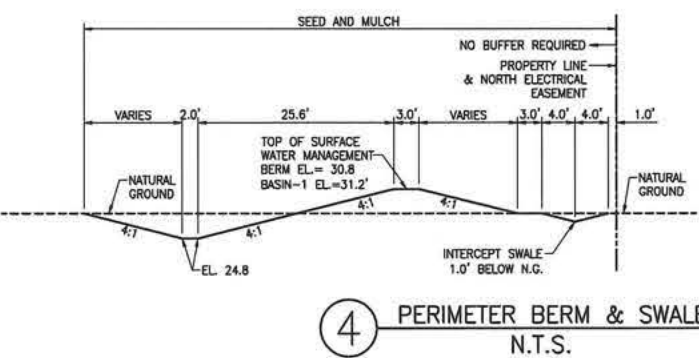
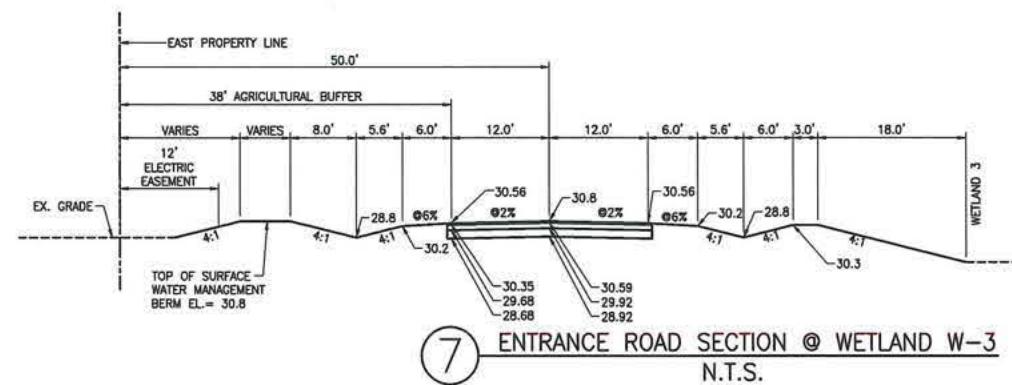
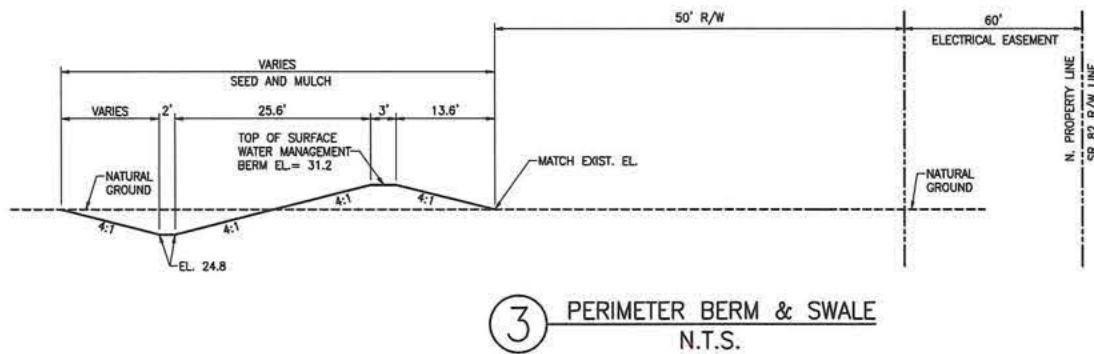
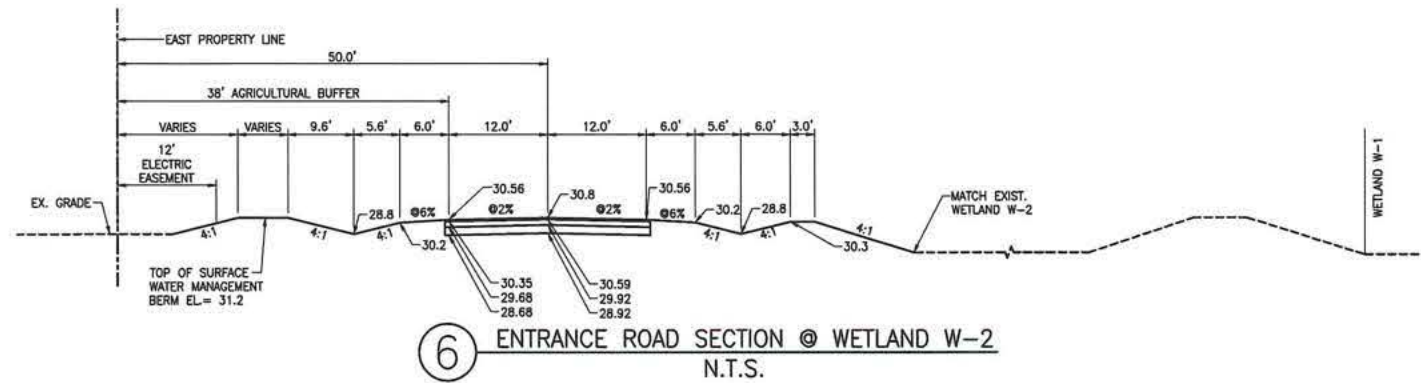
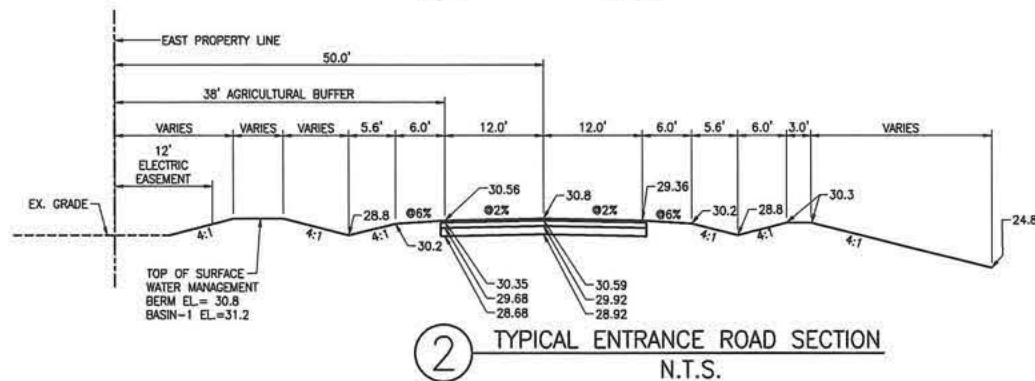
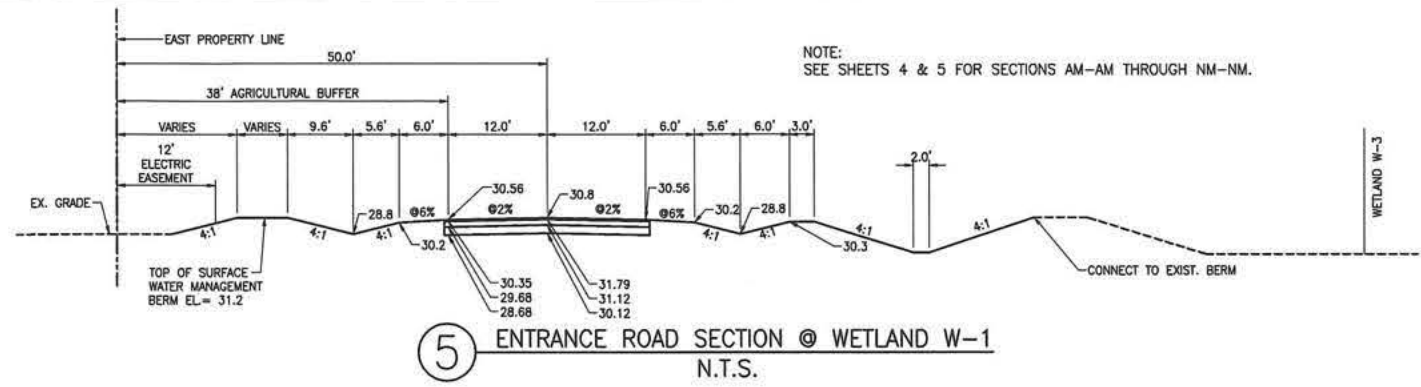
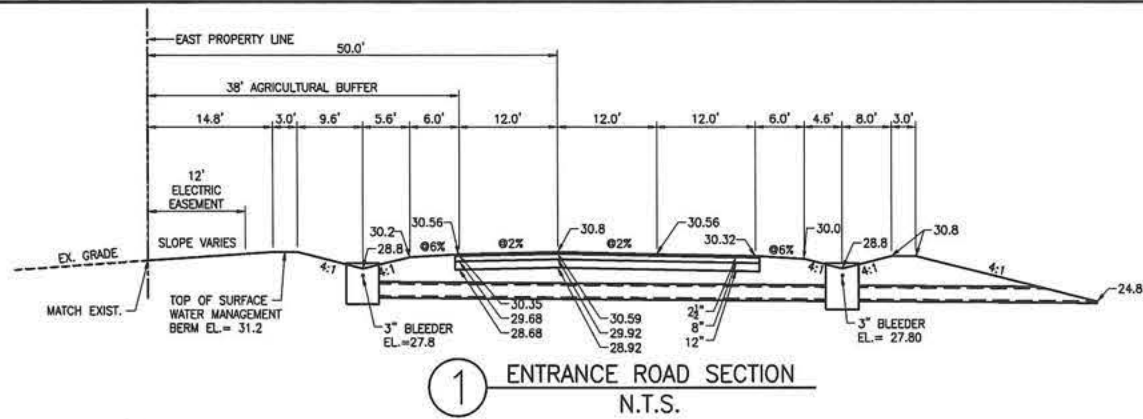
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AIM Engineering & Surveying, Inc.
2160 Alicia St.
Fort Myers, Florida 33901
239-332-4569

Ronald Kerfoot, P.E. 20768
Certificate of Authorization No. 00003114

ADJUSTMENTS TO FDOT PLAN BY AIM ENGINEERING & SURVEYING, INC.		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
82	LEE	425841-3-52-01

TROYER ROAD TURN LANE/
ENTRANCE
SHEET NO. 29
DEC 2016-00025



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MCP Page 30 of 44
Resolution # Z-18-022

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AUG 30 2019
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NO.	DATE	REVISION
2	6/19/17	IN-HOUSE REVISIONS
1	6/5/17	REVISED PER LEE COUNTY

NOT AUTHORIZED FOR CONSTRUCTION
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AIM Engineering & Surveying, Inc.
CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES
* PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT
2161 FOWLER ST. FORT MYERS, FL 33901
E-Mail: engineering@aimengr.com

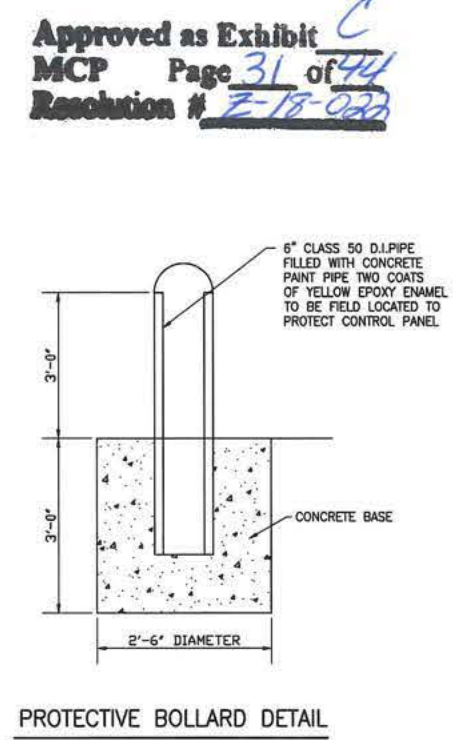
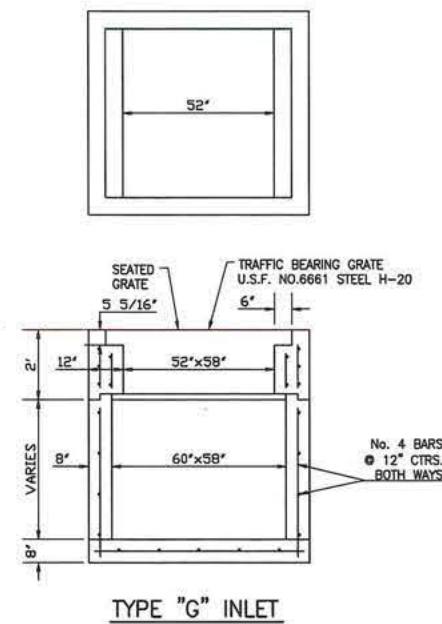
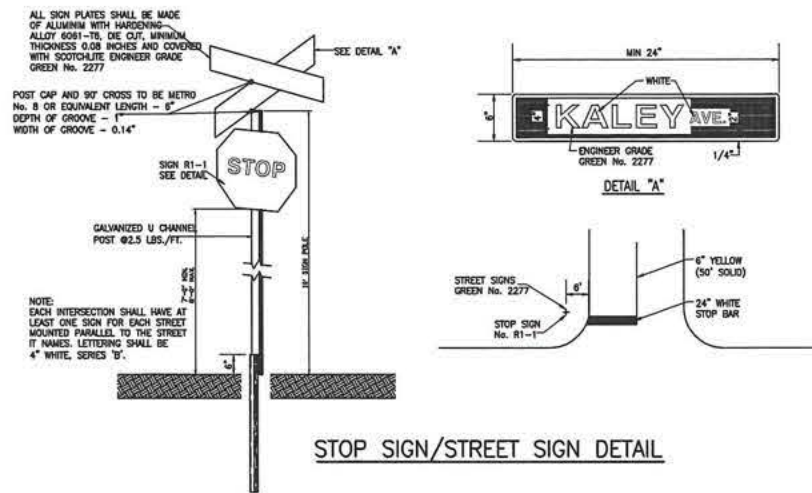
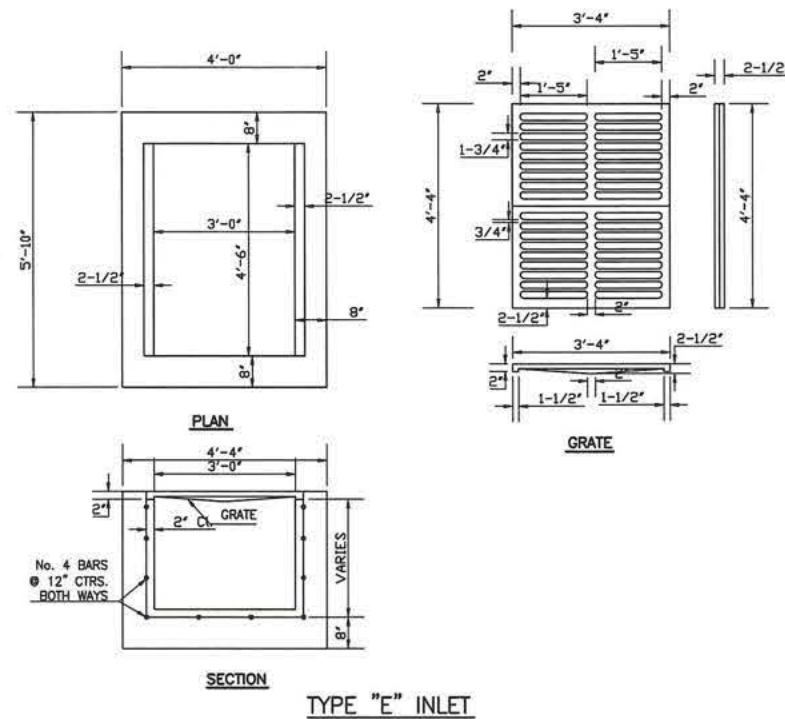
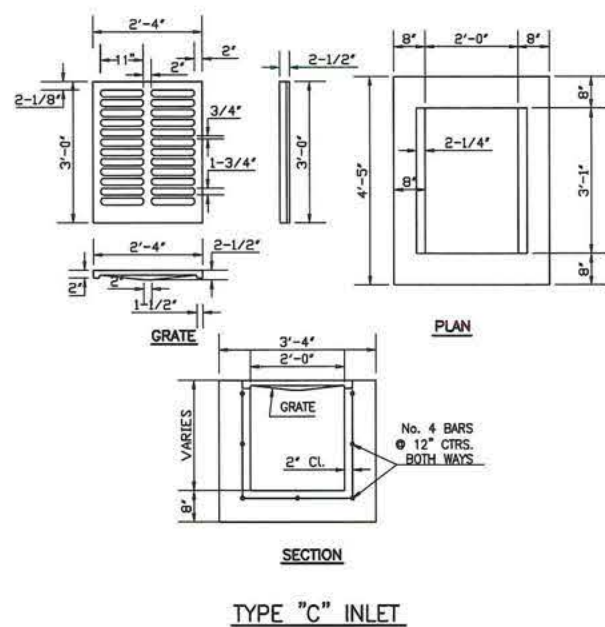
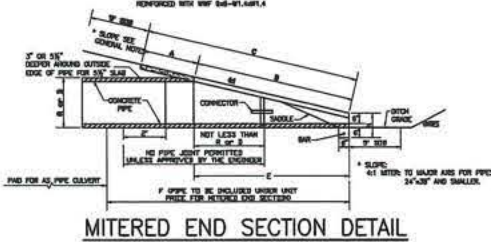
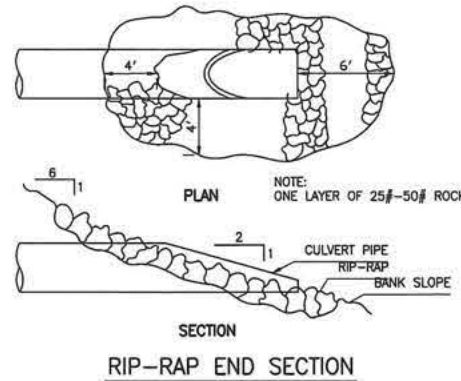
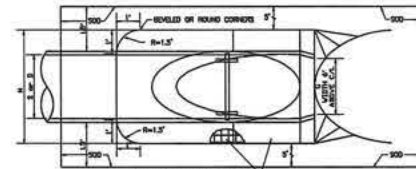
TROYER BROTHERS FLORIDA, INC.
14700 TROYER BROTHERS RD., FT. MYERS, FL 33913
PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
DATE: JAN. 16, 2017
MRA/REX/BK

TROYER BROTHERS MINE COMMUNITY DEVELOPMENT
CROSS SECTIONS SHEET 30

DCI 2016-00025

NO.	DATE	REVISION
1	6/5/17	REVISED PER LEE COUNTY



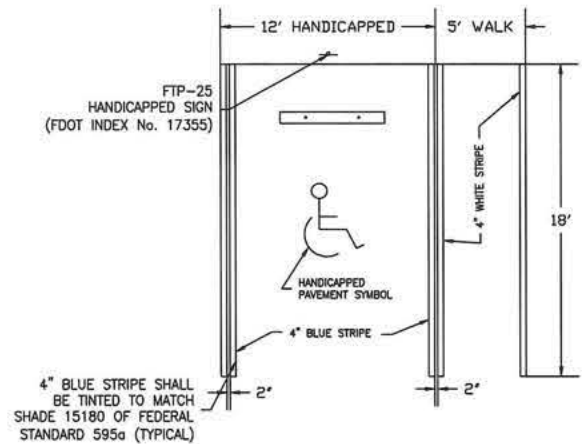
Approved as Exhibit **C**
MCP Page **31** of **74**
Resolution # **E-18-020**

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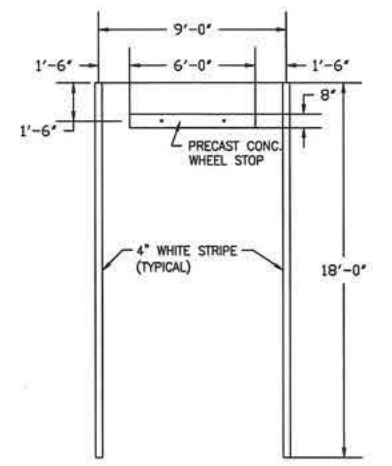
<p>AIM Engineering & Surveying, Inc. CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT 2161 FOWLER ST. FORT MYERS, FL. 33901 E-Mail: engineering@aimeng.com</p>	<p>TROYER BROTHERS FLORIDA, INC. 14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913 PHONE: (239) 860-3728 FAX: (239) 303-1297</p>	<p>SCALE: AS-NOTED DATE: JAN. 16, 2017 MRA/REX/BK</p>	<p>TROYER BROTHERS MINE DRAINAGE DETAILS</p>	<p>SHEET 31 AUG 30 2019</p>
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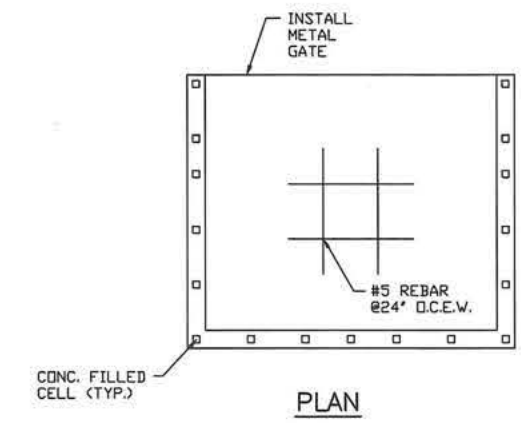
COMMUNITY DEVELOPMENT
DCI 2016-00025



TYPICAL HANDICAP PARKING SPACE

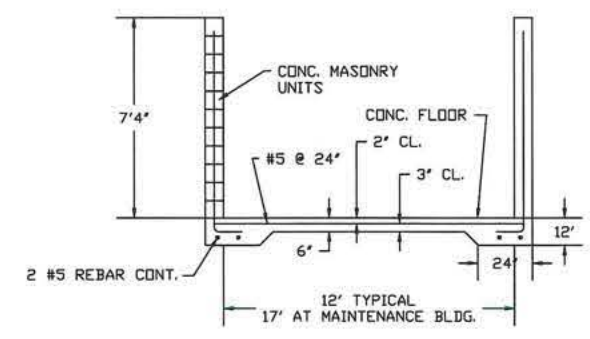


TYPICAL PARKING SPACE

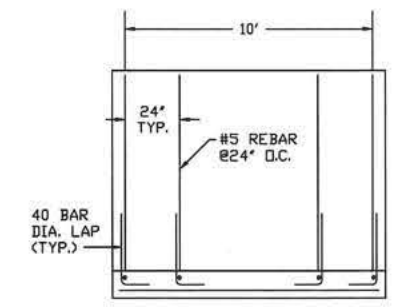


PLAN

- NOTES:
1. CONC. SHALL BE 3,000 PSI
 2. REBAR SHALL BE 60,000 PSI
 3. COMPACT SOIL TO 2,000 PSF
 4. STUCCO AND PAINT STRUCTURE TO MATCH MAIN BUILDING.

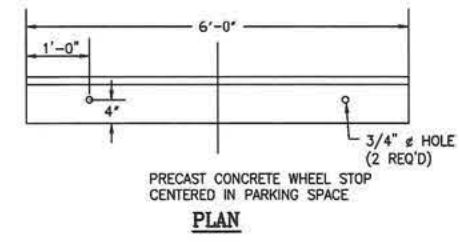


FRONT

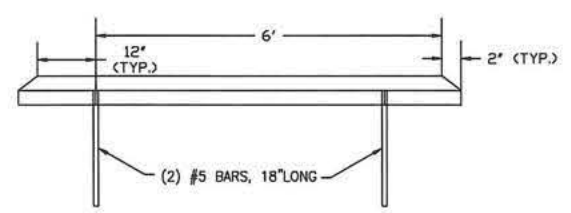


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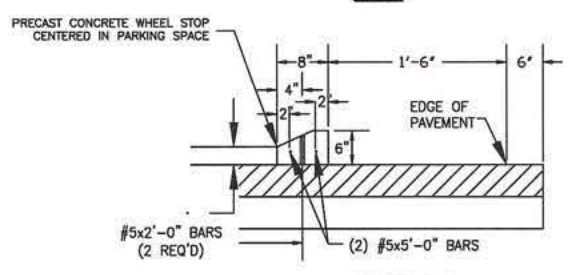
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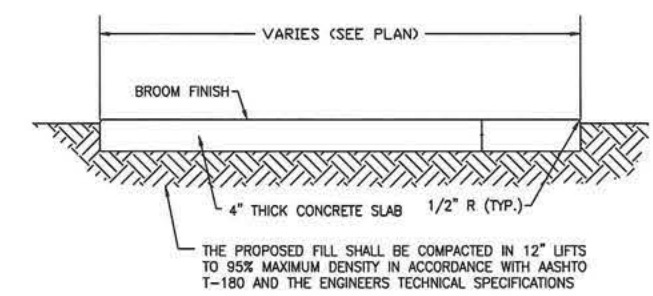
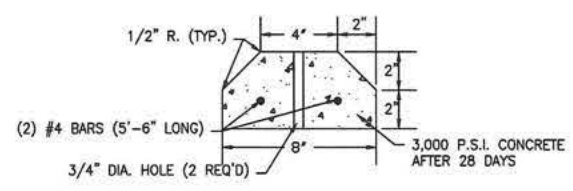
PLAN



PRECAST CONCRETE WHEEL STOP



SECTION PARKING BUMPER



TYPICAL SIDEWALK

- NOTES:
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS.
 - SUBGRADE SHALL BE SAND, COMPACTED TO A FIRM EVEN SURFACE, TRUE TO GRADE AND CROSS-SECTION, AND BE MOIST WHEN CONCRETE IS PLACED.
 - SIDEWALK SHALL HAVE CONTRACTION JOINTS AT 5' INTERVALS AND AN EXPANSION JOINT EVERY 35'.

Approved as Exhibit C
MCP Page 32 of 44
Resolution # Z-18-022

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NO.	DATE	REVISION

NOT AUTHORIZED FOR CONSTRUCTION
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AIM Engineering & Surveying, Inc.
 CIVIL ENGINEERING • LAND SURVEYING • S.U.E. • TRANSPORTATION • UTILITIES
 • PROJECT MANAGEMENT • CONSTRUCTION ENGINEERING & MANAGEMENT
 2161 FOWLER ST. FORT MYERS, FL. 33901 TEL: 239-332-4669
 E-Mail: engineering@aimengr.com CERTIFICATION OF AUTHORIZATION No. 3114

TROYER BROTHERS FLORIDA, INC.
 14700 TROYER BROTHERS RD., FT. MYERS, FL. 33913
 PHONE: (239) 860-3728 FAX: (239) 303-1297

SCALE: AS-NOTED
 DATE: JAN. 16, 2017
 MRA/REK/BK

TROYER BROTHERS MINE
 PAVING DETAILS

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 AUG 30 2013
 SHEET 32

COMMUNITY DEVELOPMENT
 DCI 2016-00025



LEGEND

	100' WIDE CONSERVATION LANDS BUFFER (±28.4 AC)
	50' WIDE AGRICULTURAL BUFFER
	30' WIDE AGRICULTURAL BUFFER
	LIMITS OF AREA TO BE MINED
	WETLAND AREAS
	WETLAND IMPACTS
	WETLAND ENHANCEMENT - MECHANICAL REMOVAL OF EXOTIC VEGETATION & SUPPLEMENTAL PLANTING (±4.49 AC)
	FORESTED WETLAND RESTORATION (±55.47 AC)
	HERBACEOUS WETLAND RESTORATION (±13.26 AC)
	UPLAND PRESERVE

- NOTES:**
- OPEN SPACE REQUIREMENTS APPLICABLE TO THE MINE WILL BE DEEMED SATISFIED IF THE MINE SITE MAINTAINS THE BUFFERS, INDIGENOUS AREAS, SETBACKS, & WILDLIFE HABITAT AREAS REQUIRED UNDER CHAPTER 12 OR AS OTHERWISE PROVIDED IN THE APPROVED MEPO RESOLUTION.
 - BUFFER STANDARDS:**
 - VEGETATION MUST BE ALLOWED TO GROW TO NATURAL HEIGHT AND FORM. TRIMMING IS LIMITED TO HEALTH AND SAFETY MAINTENANCE PRUNING (E.G. SHRUBS, TREES, AND PALMS MAY NOT BE HEDGED OR FORMALLY SHAPED).
 - BUFFER PLANTINGS MUST OCCUR AT GRADE, UNLESS OTHERWISE CONDITIONED WITHIN THE MEPO RESOLUTION.
 - EXISTING NATIVE VEGETATION MAY BE USED TO MEET THE BUFFER REQUIREMENTS.
 - THE COUNTY MAY GRANT A REQUEST TO USE SMALLER PLANT MATERIAL, AS LONG AS THE EQUIVALENT OVERALL HEIGHT IS ACHIEVED PER LINEAR FOOT.
 - BUFFER PLANTS MAY NOT BE INSTALLED IN A STRAIGHT LINE. PLANTINGS MUST BE INSTALLED IN A RANDOM FASHION THROUGHOUT THE WIDTH OF THE BUFFER TO MIMIC A NATURAL SYSTEM.
 - THE DIRECTOR HAS THE DISCRETION TO REQUIRE A MORE RESTRICTIVE BUFFER WHEN DEEMED NECESSARY FOR COMPATIBILITY IN ACCORDANCE WITH THE FOLLOWING:
 - IF A BERM IS DEEMED NECESSARY BY THE COUNTY, IT MUST BE LOCATED AT THE DISTANCE CLOSEST TO THE MINE WITHIN THE BUFFER. BERMS MAY NOT EXCEED 3:1 SLOPE AND MUST BE LIMITED TO A MAXIMUM HEIGHT OF 8 FEET.
 - IF ANY PORTION OF THE BUFFER PLANTINGS IS TO OCCUR ON THE BERM, A SPECIFIC CONDITION MUST BE INCLUDED IN THE MEPO RESOLUTION OR MDO APPROVAL.
 - BUFFERS MUST BE INSTALLED PRIOR TO ISSUANCE OF A MOP OR A FINAL MDO (CERTIFICATE OF COMPLIANCE) AND PRIOR TO THE EXCAVATION OF MATERIALS FOR HAULING OFF-SITE.**
 - CREATED MARSH WETLAND LITTORAL ZONE AREAS, ON-SITE INDIGENOUS PRESERVE AREAS, AND WILDLIFE HABITAT AREAS MAY BE COUNTED TOWARD THE BUFFER AREA REQUIREMENTS.
 - THE WILDLIFE HABITAT PLANTINGS MAY COUNT TOWARD ANY BUFFER GENERAL TREE OR INDIGENOUS REPLANTING REQUIREMENT IF THEY MEET THE MINIMUM STANDARDS FOR BUFFERS, GENERAL TREES, OR INDIGENOUS REPLANTINGS.
 - CREATED MARSH WETLAND LITTORAL ZONE AREAS, ON-SITE INDIGENOUS PRESERVE AREAS AND BUFFER AREAS MAY BE COUNTED TOWARD THE WILDLIFE HABITAT AREA REQUIREMENTS.
 - PLANTING TO COINCIDE WITH RAINY SEASON (MAY - OCTOBER) TO MEET THE NEED FOR SUPPLEMENTAL WATERING.
 - WHERE BUFFER AREAS OVERLAP FORESTED WETLAND RESTORATION AREAS THE REQUIRED LANDSCAPE BUFFER WILL BE INSTALLED.

Approved as Exhibit C
MCP Page 33 of 44
Resolution # 2-18-08

CERTIFICATION STATEMENT:
 I, MICHAEL EKBLAD, P.L.A. HEREBY CERTIFY THAT THIS MAP IS CORRECT, AND THAT I HAVE THE INFORMATION REQUIRED BY THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE TO OBTAIN A MEPO, MDO, OR MOP.

PROJECT:
TROYER BROTHERS MINE

ADDRESS:
 14700 TROYER BROS. RD.
 FORT MYERS, FL 33913

CLIENT:
TROYER BROTHERS FLORIDA, INC.

CONSULTANT:
MORRIS DEPEW
 ENGINEERS • PLANNERS • SURVEYORS
 LANDSCAPE ARCHITECTS
 FL. CA NO. 8532 / FL. CERT. NO. L06891 / LC29000383

Fort Myers
 2881 Center Pointe Drive
 Unit 100
 Fort Myers, Florida 33916
 (239) 337-9953
 Fax: (239) 337-9954
 Toll free: 888-337-7341

Tallahassee
 113 South Monroe Street
 1st Floor
 Tallahassee, Florida 32301
 Toll free: 888-337-7341

Destin
 495 Grand Boulevard
 Suite 204
 Miramar Beach, FL 32550
 Toll free: 888-337-7341

MICHAEL G. EKBLAD
 FL LIC.# LA 6667058

DRAWING IS NOT VALID WITHOUT AN EMBOSSED SEAL WITH AN ORIGINAL SIGNATURE BY THE LANDSCAPE ARCHITECT OF RECORD.

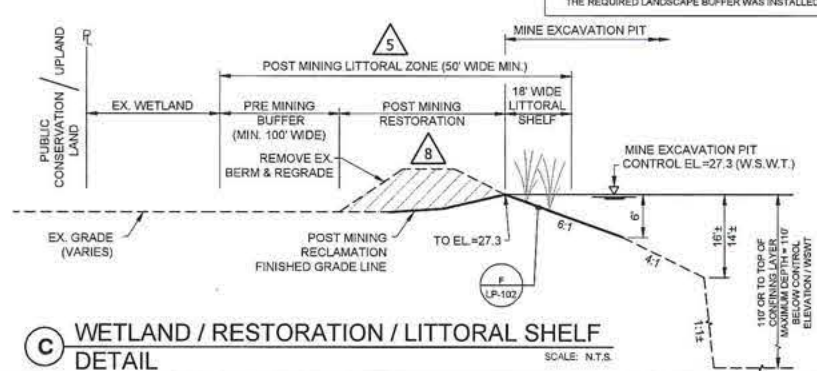
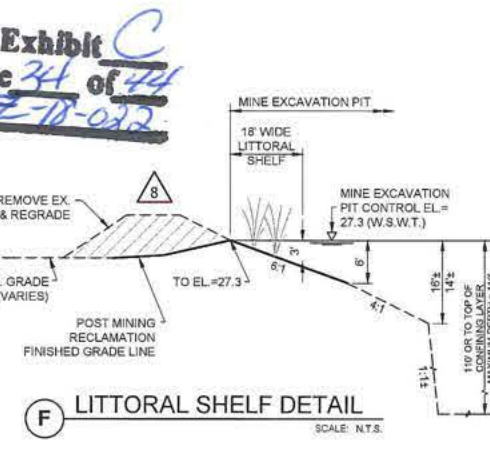
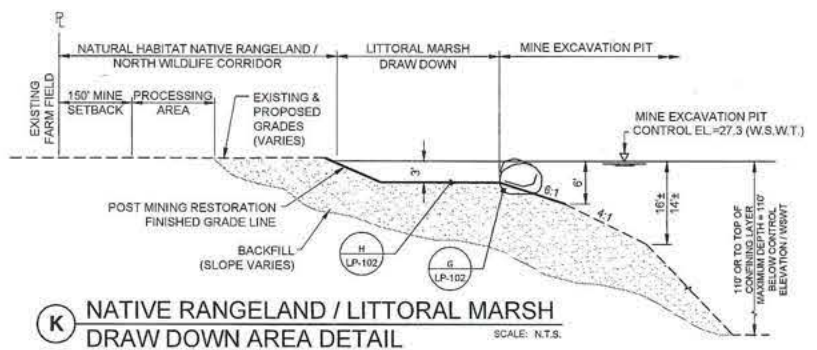
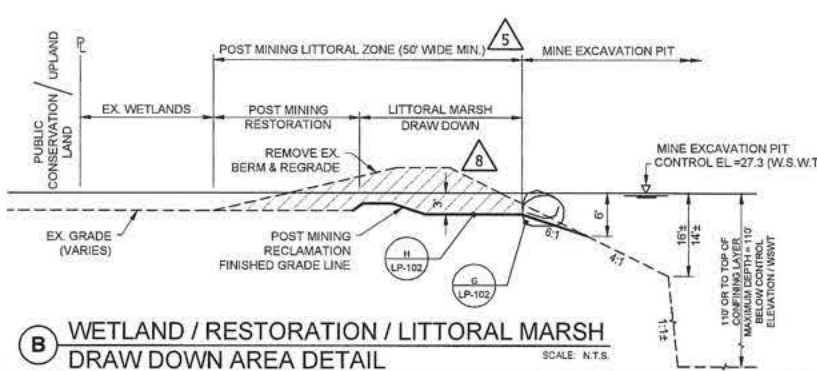
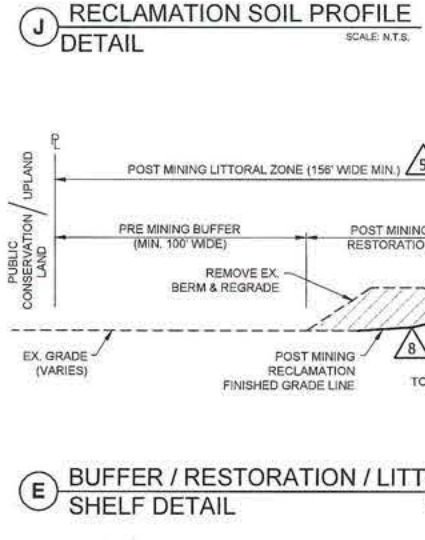
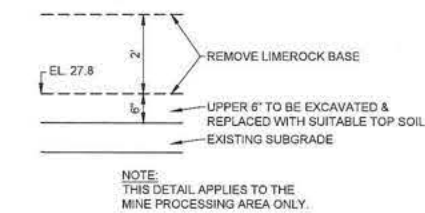
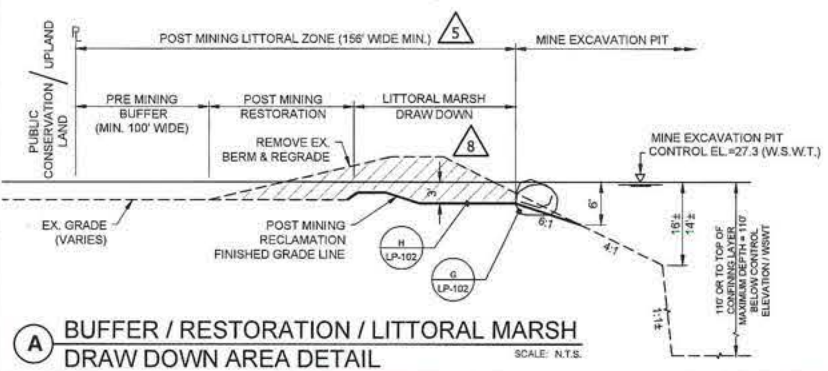
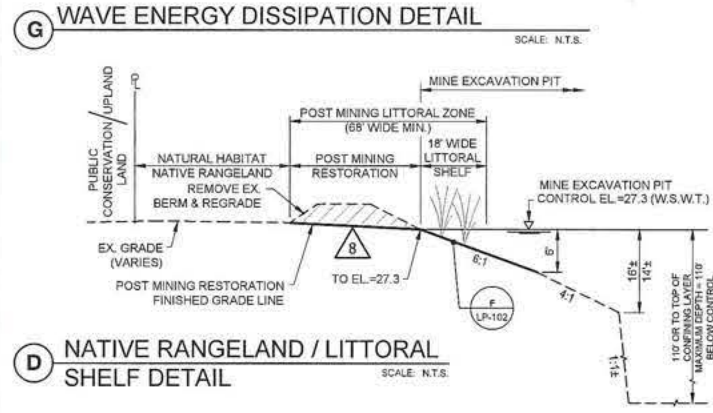
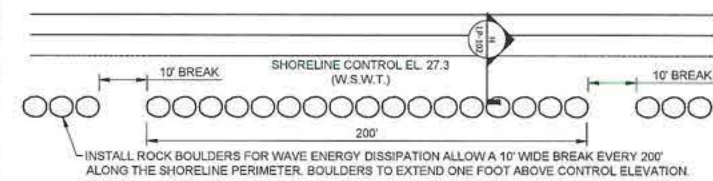
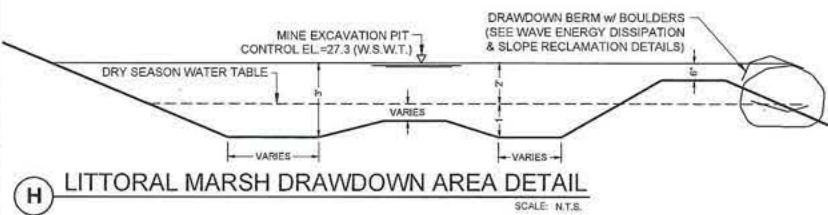
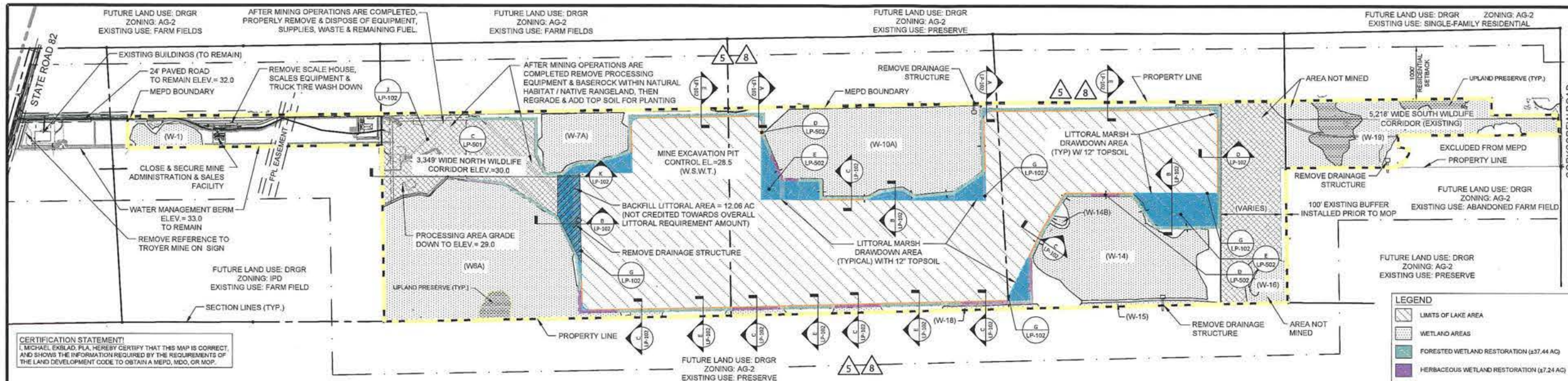
REVISIONS	DATE

PROJECT MANAGER: RMS
 DRAWING BY: DAL
 JURISDICTION: LEE COUNTY
 DATE: 10/4/2017

TITLE:
LANDSCAPE PLAN

SHEET NUMBER: LP-101
 SCALE: 1"=100'
 JOB/FILE NUMBER: 15117-05

DCI 2016-00025



LEGEND

- LIMITS OF LAKE AREA
- WETLAND AREAS
- FORESTED WETLAND RESTORATION (437.44 AC)
- HERBACEOUS WETLAND RESTORATION (47.24 AC)
- LITTORAL MARSH DRAWDOWN AREA (466.5 AC)
- LITTORAL SHELF AREA (46.9 AC)
- NATURAL HABITAT / NATIVE RANGELAND / RESTORATION (193.26 AC)
- UPLAND PRESERVE
- BACKFILL LITTORAL AREA

- NOTES:**
- NOT MINED AREAS SHALL RESTORED TO NATURAL GRADE.
 - WHEN PRACTICAL, ORGANIC SOILS (MUCK) EXCAVATED FROM THE IMPACTED ON-SITE WETLANDS SHOULD BE STOCKPILED ON-SITE IN AREAS THAT ARE NOT PROPOSED TO BE MINED AND THAT WILL REQUIRE RESTORATION ONCE MINING ACTIVITIES HAVE CEASED. TO PREVENT THE SOIL FROM OXIDIZING AND SUBSIDING, COVER THE MUCK STOCKPILE WITH A FEW INCHES (4-5") OF TALLOW OR SAND.
 - DURING RECLAMATION / RESTORATION ACTIVITIES ORGANIC SOILS (MUCK), IF AVAILABLE, SHOULD BE MIXED INTO THE UPPER SOIL LAYERS (TOP 12-INCHES OR MORE, CONTINGENT ON AVAILABILITY) OF THE CREATED LITTORAL ZONES WHICH LIE WITHIN THE LAKE FOOTPRINT (FROM CONTROL ELEVATION TO 3-FEET BELOW CONTROL ELEVATION). THE EXISTING "A" & "B" SOIL HORIZONS MUST, IF AVAILABLE, BE UTILIZED TO ENSURE SUCCESSFUL WETLAND CREATION. THE "A" HORIZON MUST BE STORED IN A MANNER THAT PREVENTS THE SOIL FROM OXIDIZING. THE "B" HORIZON WILL BE PLACED OVER A BASE OF SAND WITH THE "A" HORIZON PLACED OVER THE "B" HORIZON DURING THE RECLAMATION PROCESS.
 - ALL ON-SITE FENCING WHICH IS OWNED BY THE MINE SHALL BE REMOVED DURING THE APPROPRIATE RECLAMATION PHASE.
 - SEE DEVIATION #4 FOR RECLAMATION TIMING. RECLAMATION WILL COMMENCE NO LATER THAN 30 CALENDAR DAYS AFTER COMPLETION OF THE EXCAVATION OF PIT AREA. RECLAMATION WILL BE COMPLETED WITHIN 12 MONTHS FOLLOWING COMMENCEMENT.
 - RECLAMATION PLANTING WILL BE INSTALLED AT THE END OF MINING ACTIVITIES, AND WILL BE COMPLETED BY ONE PHASE. NO PHASING IS ANTICIPATED.
 - REFER TO LANDSCAPING PLANS BY MORRIS-DEPEW & ASSOCIATES, INC. FOR PLANTING DETAILS AND PLANT SPECIFICATION.
 - ALL TEMPORARY IMPACTS TO EXISTING WETLANDS IN THE 150' BUFFER (TOTAL = 10 ACRES) ARE TO BE REPLANTED POST MINING PER THE CREATED WETLAND LITTORAL ZONE DETAIL. (DETAIL E ON LP-502).
 - PLANTING TO COINCIDE WITH RAINY SEASON (MAY - OCTOBER) TO LIMIT THE NEED FOR SUPPLEMENTAL WATERING.
 - AFTER ALL RECLAMATION AND RESTORATION ACTIVITIES ARE COMPLETE, ALL AREAS SHALL BE PLACED INTO CONSERVATION EASEMENTS ALONG WITH ALL REMAINING ON-SITE PRESERVES.
 - REQUIRED BUFFER OR PRESERVE PLANTINGS OR IRRIGATION WILL BE MAINTAINED DURING PERMETER FENCE REMOVAL.
 - IN PRE-MINING CONDITIONS, WHERE BUFFER AREAS OVERLAP FORESTED WETLAND RESTORATION AREAS, THE REQUIRED LANDSCAPE BUFFER WAS INSTALLED.

PROJECT:
TROYER BROTHERS MINE

ADDRESS:
 14700 TROYER BROS. RD.
 FORT MYERS, FL. 33913

CLIENT:
TROYER BROTHERS FLORIDA, INC.

CONSULTANT:
MORRIS DEPEW
 ENGINEERS • PLANNERS • SURVEYORS
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MICHAEL G. EKBLAD
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REVISIONS	DATE

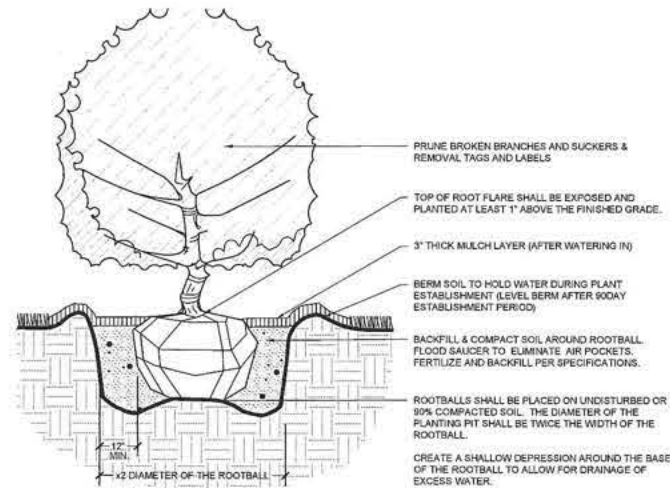
PROJECT MANAGER: RMS
DRAWING BY: DAL
JURISDICTION: LEE COUNTY
DATE: 10/4/2017

TITLE:
FINAL GRADING & PLANTING PLAN FOR RECLAMATION

SHEET NUMBER: LP-102
COURT NUMBER: 151177405



DCI 2016-00025



PRUNE BROKEN BRANCHES AND SUCKERS & REMOVAL TAGS AND LABELS

TOP OF ROOT FLARE SHALL BE EXPOSED AND PLANTED AT LEAST 1" ABOVE THE FINISHED GRADE.

3" THICK MULCH LAYER (AFTER WATERING IN)

BERM SOIL TO HOLD WATER DURING PLANT ESTABLISHMENT (LEVEL BERM AFTER 90DAY ESTABLISHMENT PERIOD)

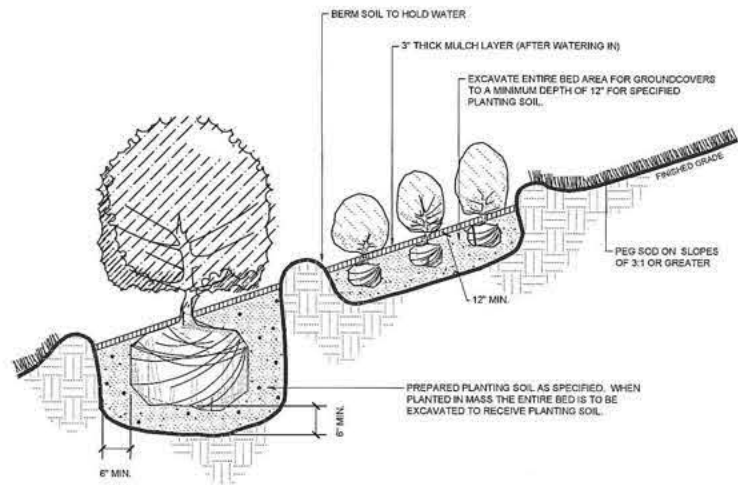
BACKFILL & COMPACT SOIL AROUND ROOTBALL. FLOOD SAUCER TO ELIMINATE AIR POCKETS. FERTILIZE AND BACKFILL PER SPECIFICATIONS.

ROOTBALLS SHALL BE PLACED ON UNDISTURBED OR 90% COMPACTED SOIL. THE DIAMETER OF THE PLANTING PIT SHALL BE TWICE THE WIDTH OF THE ROOTBALL.

CREATE A SHALLOW DEPRESSION AROUND THE BASE OF THE ROOTBALL TO ALLOW FOR DRAINAGE OF EXCESS WATER.

A SHRUB PIT PLANTING DETAIL

SCALE: N.T.S.



BERM SOIL TO HOLD WATER

3" THICK MULCH LAYER (AFTER WATERING IN)

EXCAVATE ENTIRE BED AREA FOR GROUNDCOVERS TO A MINIMUM DEPTH OF 12" FOR SPECIFIED PLANTING SOIL.

FINISHED GRADE

PEG ROD ON SLOPES OF 3:1 OR GREATER

12" MIN.

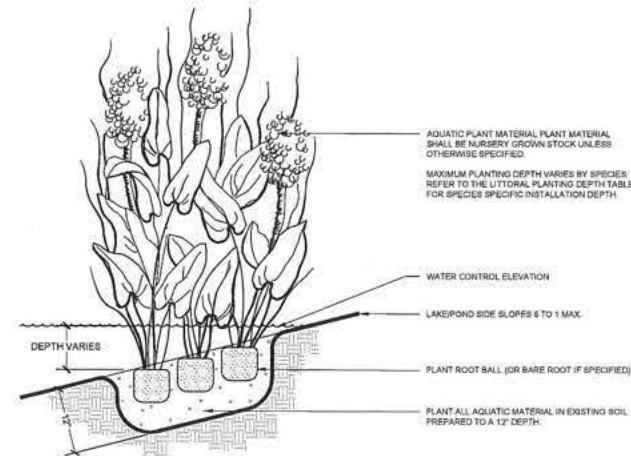
8" MIN.

6" MIN.

PREPARED PLANTING SOIL AS SPECIFIED. WHEN PLANTED IN MASS THE ENTIRE BED IS TO BE EXCAVATED TO RECEIVE PLANTING SOIL.

B SHRUB ON SLOPE INSTALLATION DETAIL

SCALE: N.T.S.



AQUATIC PLANT MATERIAL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK UNLESS OTHERWISE SPECIFIED.

MAXIMUM PLANTING DEPTH VARIES BY SPECIES REFER TO THE LITTORAL PLANTING DEPTH TABLE FOR SPECIES SPECIFIC INSTALLATION DEPTH.

WATER CONTROL ELEVATION

LAKE/RIDGE SLOPES 6 TO 1 MAX.

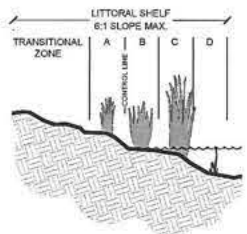
DEPTH VARIES

PLANT ROOT BALL (OR BARE ROOT IF SPECIFIED)

PLANT ALL AQUATIC MATERIAL IN EXISTING SOIL PREPARED TO A 12" DEPTH.

C AQUATIC PLANT INSTALLATION DETAIL

SCALE: N.T.S.



LITTORAL SHELF
6:1 SLOPE MAX.

TRANSITIONAL ZONE

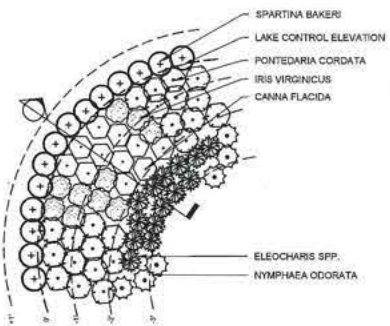
ZONE A: +1' TO CONTROL LINE OF LAKE.

ZONE B: CONTROL LINE OF LAKE TO -1'.

ZONE C: -1' TO -2' BELOW CONTROL LINE OF LAKE.

ZONE D: -2' TO -4' BELOW CONTROL LINE OF LAKE.

SECTION



SPARTINA BAKERI

LAKE CONTROL ELEVATION

PONTEDERIA CORDATA

IRIS VIRGINICUS

CANNA FLACIDA

ELEOCHARIS SPP.

NYMPHAEA ODOATA

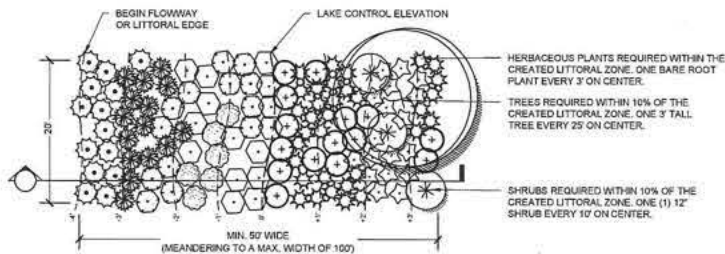
PLAN

NOTES:

1. BARE ROOT HERBACEOUS PLANTS TO BE INSTALLED THREE FEET (3') ON CENTER WITHIN THE LITTORAL ZONE.
2. SEE THE LITTORAL PLANTING DEPTH TABLE FOR ACCEPTABLE PLANT SPECIES AND RESPECTIVE INSTALLATION DEPTHS.
3. SEE RECLAMATION PLAN ON SHEET LP-102 FOR GRADING INFORMATION.

D LITTORAL ZONE PLANTING DETAIL

SCALE: N.T.S.



BEGIN FLOWWAY OR LITTORAL EDGE

LAKE CONTROL ELEVATION

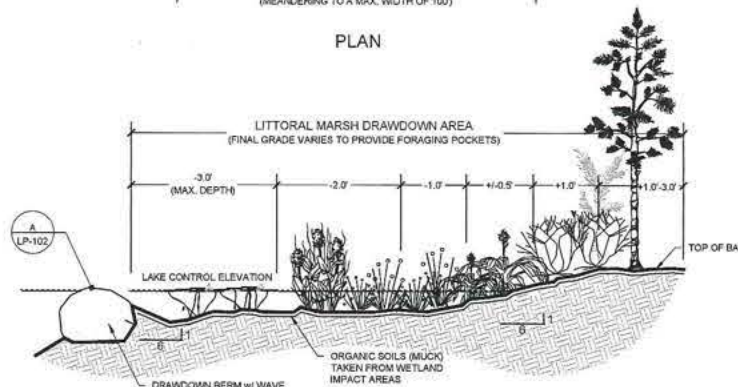
HERBACEOUS PLANTS REQUIRED WITHIN THE CREATED LITTORAL ZONE. ONE BARE ROOT PLANT EVERY 3' ON CENTER.

TREES REQUIRED WITHIN 10% OF THE CREATED LITTORAL ZONE. ONE (1) 12" TREE EVERY 25' ON CENTER.

SHRUBS REQUIRED WITHIN 10% OF THE CREATED LITTORAL ZONE. ONE (1) 12" SHRUB EVERY 10' ON CENTER.

MIN. 50' WIDE (MEANDERING TO A MAX. WIDTH OF 100')

PLAN



LITTORAL MARSH DRAWDOWN AREA (FINAL GRADE VARIES TO PROVIDE FORAGING POCKETS)

(MAX. DEPTH)

LAKE CONTROL ELEVATION

ORGANIC SOILS (MUCK) TAKEN FROM WETLAND IMPACT AREAS

DRAWDOWN BERM w/ WAVE DISSIPATION BOULDER

TOP OF BANK

SECTION

NOTES:

1. ARRANGE PLANTINGS IN A MANNER TO MIMIC NATURAL PLANTINGS FOUND IN AN UNDISTURBED PLANT COMMUNITY.
2. IF APPROPRIATE, ORGANIC SOILS (MUCK) WILL, IF PRACTICAL, BE EXCAVATED FROM IMPACTED WETLANDS ON THE SITE AND BE PLACED IN THE CREATED LITTORAL ZONE WETLAND AREAS. THE EXISTING "A" & "B" SOIL HORIZONS MUST, IF AVAILABLE, BE UTILIZED TO ENSURE SUCCESSFUL WETLAND CREATION. THE "A" HORIZON MUST BE STORED IN A MANNER THAT PREVENTS THE SOIL FROM DRAINING. THE "B" HORIZON WILL BE PLACED OVER A BASE OF SAND WITH THE "A" HORIZON PLACED OVER THE "B" HORIZON DURING THE RECLAMATION PROCESS.
3. SEE THE LITTORAL PLANTING DEPTH TABLE FOR ACCEPTABLE PLANT SPECIES AND RESPECTIVE INSTALLATION DEPTHS.
4. SEE RECLAMATION PLAN ON SHEET LP-102 FOR GRADING INFORMATION.

E CREATED MARSH WETLAND LITTORAL ZONE DETAIL

SCALE: N.T.S.

FORESTED AREAS

MAX. DEPTH	BOTANICAL NAME	COMMON NAME	SPECIFICATION
>3' ABOVE	QUERCUS VIRGINIANA	LIVE OAK	3' HT., 3 GALLON
>1' ABOVE	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	12" HT., 1 GALLON
	CHRYSOBALANUS ICACO	COCOPALM	
	HAMELA PATENS	SOUTHERN SLASH PINE	3' HT., 3 GALLON
0' - 2' ABOVE	QUERCUS LAURIFOLIA	LAUREL OAK	3' HT., 3 GALLON
0' - 1' ABOVE	PSYCHOTRIA NERVOOSA	WILD COFFEE	12" HT., 1 GALLON
	MYRICA CERIFERA	WAX MYRTLE	
	MADONIA VIRGINIANA	SWEETWY MADONIA	
	RAPANEA PUNCTATA	MYRSINE	3' HT., 3 GALLON
0' - 2' BELOW	ILEX CASSIAE	DAHOON HOLLY	3' HT., 3 GALLON
	ACER RUBRUM	RED MAPLE	
1' - 2' BELOW	TAXODIUM SPP.**	CYPRESS	3' HT., 3 GALLON
2' - 3' BELOW	FRAXINUS CAROLINIANA	POP ASH	3' HT., 3 GALLON
3' - 4' BELOW	ANNONA GLABRA	POND APPLE	3' HT., 3 GALLON

**MANY SPECIES OF CYPRESS ARE APPROPRIATE FOR SOUTH FLORIDA.

NATURAL HABITAT / NATIVE RANGELAND AREAS

MAX. DEPTH	BOTANICAL NAME	COMMON NAME	SPECIFICATION
VARIABLES	ARISTIDA STRICTA	WIRE GRASS	BARE ROOT
	MULLENBERGIA CAPILLARIS	MULHLY GRASS	
	PANICUM VIRGATUM	PANIC GRASS	
	SPARTINA BAKERI	SAND CORD GRASS	
	ANDROPOGON SPP.**	BROOM SEDGE GRASS	

**MANY SPECIES OF ANDROPOGON ARE APPROPRIATE FOR SOUTH FLORIDA.

MARSH / LITTORAL AREAS

MAX. DEPTH	BOTANICAL NAME	COMMON NAME	SPECIFICATION
>2' ABOVE	RHYNCHOSPORA DIVERGENS	SPREADING BEAKSEEDGE	BARE ROOT
	EUGLENA GENCULATA	CANADA SPIKERUSH	
	BACOPA MONNERTII	HERB-OF-GRACE	
1' - 2' ABOVE	MULLENBERGIA CAPILLARIS	MULHLY GRASS	BARE ROOT
	PANICUM HENTONIANUM	WANDICANE	
	TRIPSACUM DACTYLOIDES	FAXAHATCHEE GRASS	
2' ABOVE - 2' BELOW	CLADUM FAMAICENSE	SAWGRASS	BARE ROOT
	CYPERUS SPP.**	FLATS EDGES	
	(SPARTINA BAKERI)	CORDGRASS	
1' ABOVE - 1' BELOW	IRIS VIRGINICUS	BLUE FLAG IRIS	BARE ROOT
	CANNA FLACIDA	GOLDEN CANNA	
	SPARTINA BAKERI	CORDGRASS	
0' - 1' BELOW	RHYNCHOSPORA MICROCARPA	SOUTHERN BEAKSEEDGE	BARE ROOT
0' - 2' BELOW	FURFURA BREVISETA	SALT MARSH UMBRELLA SEEDGE	BARE ROOT
	ELEOCHARIS CELLULOZA	GULF COAST SPIKERUSH	
	EUGLENA ELONGATA	SLIPPER TIDY	
1' - 2' BELOW	SAGITTARIA LANCEOLATA	ARROWHEAD	BARE ROOT
	RHYNCHOSPORA TRACYI	TRACY'S BEAKSEEDGE	
1' - 3' BELOW	EUGLENA INTERSTINCTA	KNOTTED SPIKERUSH	BARE ROOT
	RHYNCHOSPORA INUNDATA	INUNDATED BEAKRUSH	
2' - 3' BELOW	NYMPHAEA ODOATA	FRAGRANT WATER LILY	BARE ROOT
	PONTEDERIA CORDATA	PICKEREL WEED	
>3' BELOW	NUPHAR ADVENA	SPATTERDOCK	BARE ROOT

**MANY SPECIES OF FLATSSEEDGE ARE APPROPRIATE FOR SOUTH FLORIDA.

NOTES:

1. WATER ELEVATIONS ARE KNOWN TO FLUCTUATE IN THE AREA. PLANTING DEPTHS ARE SUGGESTED & SHOULD BE ADJUSTED BASED ON CONDITIONS IN THE FIELD.
2. RECOMMEND FOUR TO SIX INCH (4"-6") DIAMETER PLUGS OF MIXED MARSH PLANTS FROM THE ADJACENT PRESERVED MARSHES AT EQUIVALENT DEPTHS BE TRANSPLANTED WITH PLUGS BEING TAKEN AT A DENSITY OF 1 PER TEN (1/10) SQUARE FEET OF NATURAL MARSH OR IF PHASING PERMITS, THE ENTIRE MARSH HABITAT THAT IS SCHEDULED FOR DESTRUCTION CAN BE USED AS SOURCE MATERIAL. EIGHTY PERCENT (80%) SURVIVABILITY OF HERBACEOUS WETLAND PLANTS MUST BE MET WITHIN FIVE (5) YEARS OF PLANTING & MUST BE MAINTAINED IN PERPETUITY.
3. NO MORE THAN TWENTY-FIVE PERCENT (25%) OF ONE PLANT SPECIES CAN BE UTILIZED WITHIN THE CREATED LITTORAL WETLAND ZONE, AND AT LEAST SIX (6) SPECIES MUST BE PLACED.

F TYPICAL PLANTING DEPTH TABLE

SCALE: N.T.S.

PROJECT:

TROYER BROTHERS MINE

ADDRESS:

14700 TROYER BROS. RD.
FORT MYERS, FL. 33913

CLIENT:

TROYER BROTHERS FLORIDA, INC.

CONSULTANT:

MORRIS DEPEW

ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS

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MICHAEL G. EKBLAD
FL LIC # LA 6667058

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REVISIONS	DATE

PROJECT MANAGER: RMS

DRAWING BY: DAL

JURISDICTION: LEE COUNTY

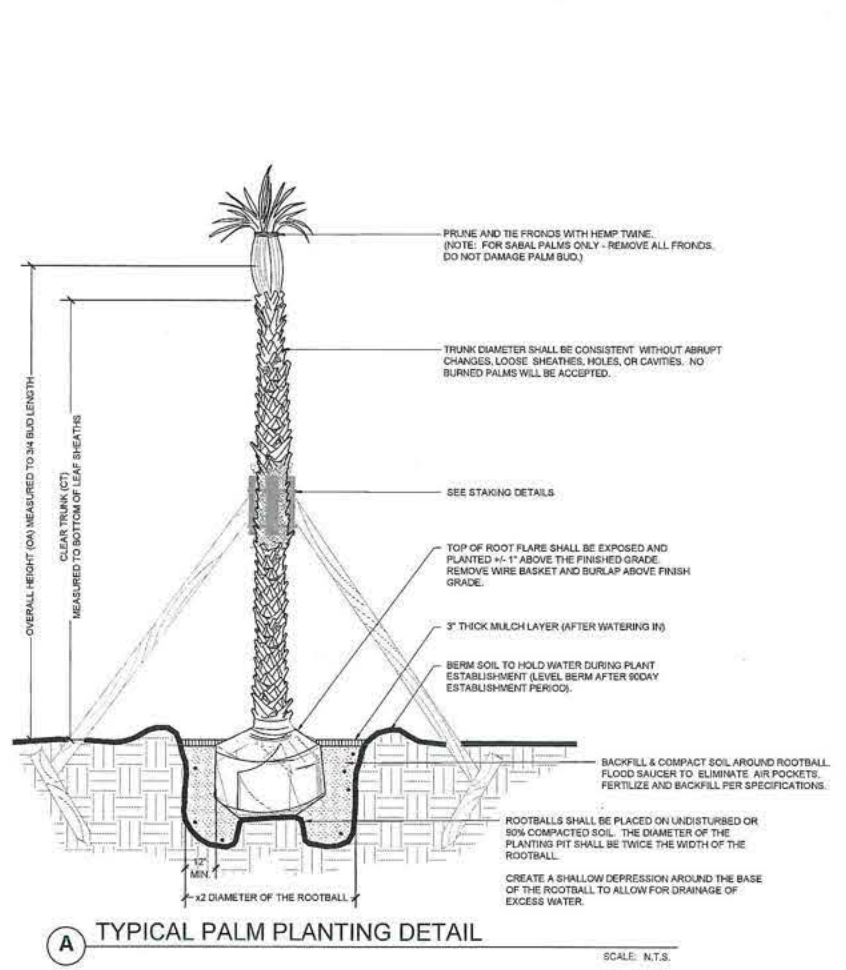
DATE: 10/4/2017

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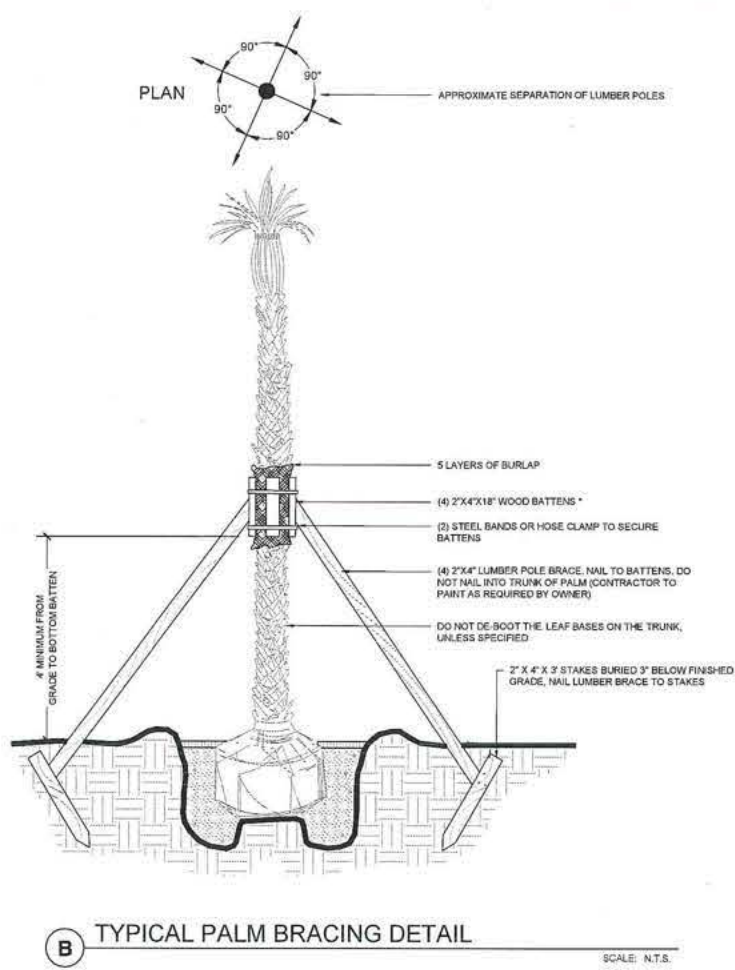
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PLANTING DETAILS
SHEET NUMBER: LP-502
AUG 30 2019

COMMUNITY DEVELOPMENT
JOBFILE NUMBER: 15117-05

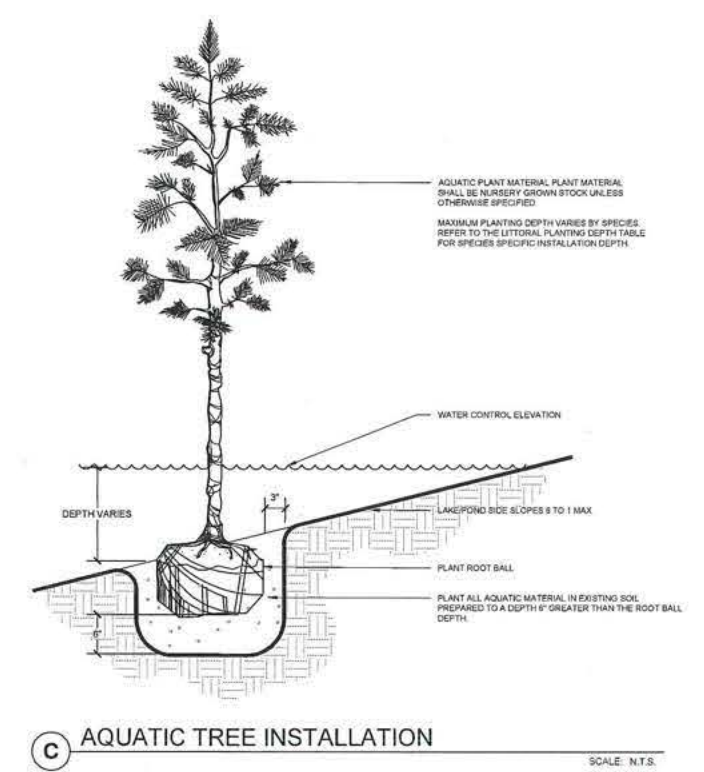
DCI 2016-00025



A TYPICAL PALM PLANTING DETAIL
SCALE: N.T.S.

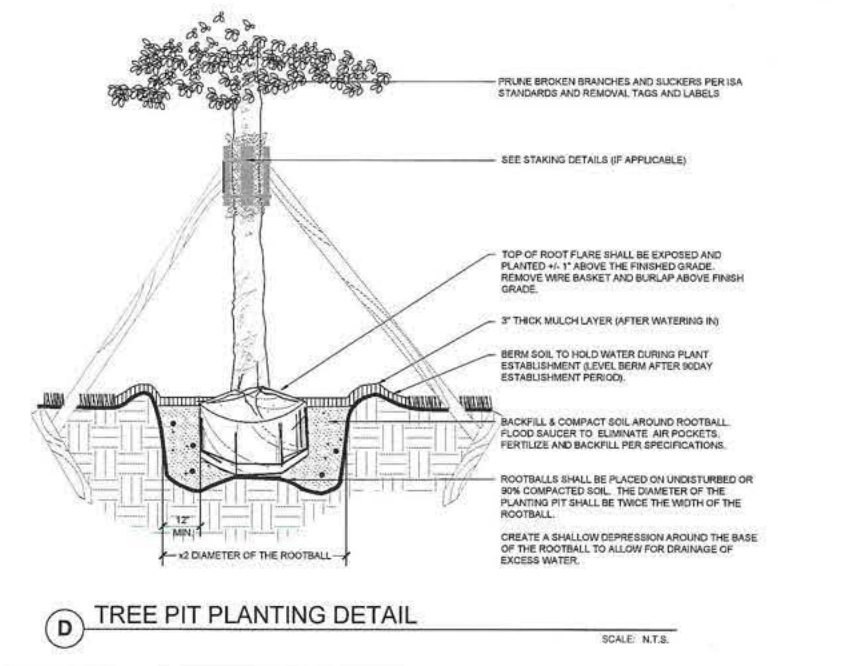


B TYPICAL PALM BRACING DETAIL
SCALE: N.T.S.

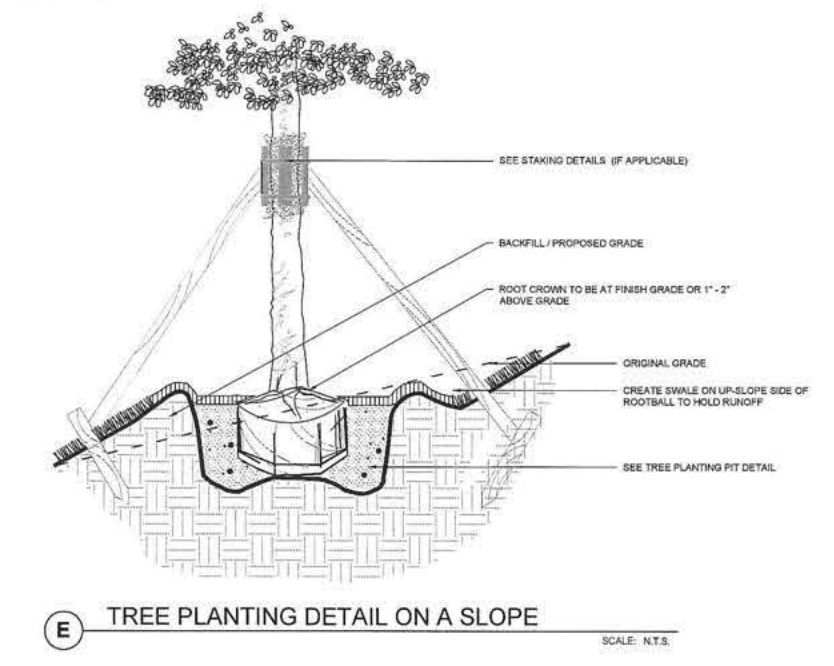


C AQUATIC TREE INSTALLATION
SCALE: N.T.S.

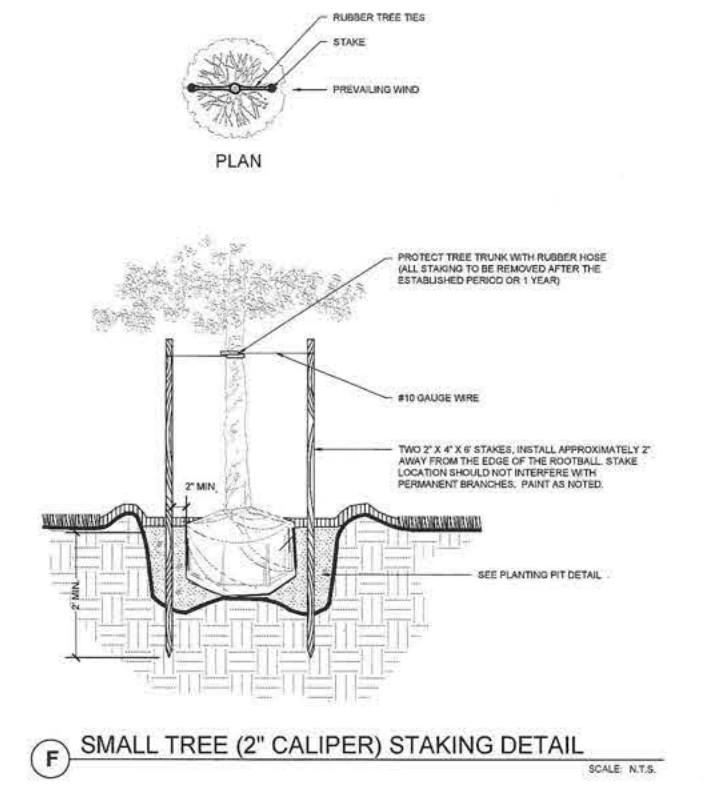
Approved as Exhibit **C**
MCP Page 37 of 44
Resolution # L-18-022



D TREE PIT PLANTING DETAIL
SCALE: N.T.S.



E TREE PLANTING DETAIL ON A SLOPE
SCALE: N.T.S.



F SMALL TREE (2" CALIPER) STAKING DETAIL
SCALE: N.T.S.

PROJECT:

TROYER BROTHERS MINE

ADDRESS:

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FORT MYERS, FL. 33913

CLIENT:

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REVISIONS	DATE

PROJECT MANAGER: RMS
DRAWING BY: DAL
JURISDICTION: LEE COUNTY
DATE: 10/4/2017
TITLE: PLANTING DETAILS

RECEIVED

SHEET NUMBER: LP-503
AUG 30 2019

COMMUNITY DEVELOPMENT
JOB/FILE NUMBER: 15117-05

LANDSCAPE CALCULATIONS:

OPEN SPACE REQUIREMENTS (PER SEC. 12-113 (j))
OPEN SPACE REQUIREMENTS APPLICABLE TO THE MINE WILL BE DEEMED SATISFIED IF THE MINE SITE MAINTAINS THE BUFFERS, INDIGENOUS AREA, SETBACKS, AND WILDLIFE HABITAT AREAS REQUIRED UNDER THIS CHAPTER OR AS OTHERWISE PROVIDED IN THE APPROVED MPO RESOLUTION.

TOTAL PROPERTY AREA = 41,803.5 AC
TOTAL PROJECT AREA (MPO BOUNDARY) = 41,732.75 AC
OPEN SPACE AREA REQUIRED = NA
SEE INDIGENOUS PRESERVATION AREA TABLE FOR ADDITIONAL INFORMATION (THIS SHEET)
OPEN SPACE PROVIDED = 41,816.43 AC

AGRICULTURAL BUFFER, MINIMUM 50-FOOT WIDTH, MAINTAINED AT NATURAL GRADE.
NORTH BUFFER (945 LINEAR FEET): 50' WIDE BUFFER = 4545 LF REQUIRED
EAST BUFFER (SUKATA SEED) (0.178 LINEAR FEET): 50' WIDE BUFFER = 45,044 LF REQUIRED

CONSERVATION LANDS BUFFER:
MINIMUM 100-FOOT WIDTH, MAINTAINED AT NATURAL GRADE. EVERY 100 FEET OF THE CONSERVATION LANDS BUFFER MUST CONSIST OF TEN TEN-FOOT TREES WITH TWO-INCH CALIPER AND FOUR FOOT SPREAD, TEN FIVE-FOOT TREES WITH ONE-INCH CALIPER AND TWO-FOOT SPREAD, 100 NATIVE SHRUBS 24 INCHES IN HEIGHT, AND BE SEEDED WITH NATIVE HERBACEOUS PLANTS.

WILDLIFE HABITAT (PER SEC. 12-113 (p))
A 300 FOOT WIDE AREA MUST BE PLANTED WITH A CONTINUOUS NATIVE SHRUB HEDGE (33 SHRUBS PER 100 LINEAR FEET, MINIMUM THREE-GALLON CONTAINER SIZE) ALONG THE PERIMETER OF THE HABITAT AREA AND A MINIMUM OF 20 NATIVE TREES PER 100 LINEAR FOOT CLUSTERED (MINIMUM TEN TREES PER CLUSTER, MINIMUM 7-GALLON CONTAINER SIZE) WITHIN THE HABITAT AREA TO PROVIDE COVER.

INDIGENOUS RESTORATION (PER SEC. 12-113 (m))
ON-SITE INDIGENOUS REPLANTING PLANS APPROVED BY THE COUNTY MUST INCLUDE A MINIMUM OF FOUR NATIVE TREE AND FOUR NATIVE SHRUB SPECIES. NATIVE TREES MUST BE INSTALLED AT A MINIMUM OF 100 FEET ON CENTER PER ACRE AND NATIVE SHRUBS MUST BE INSTALLED AT A MINIMUM OF 50 FEET ON CENTER PER ACRE. 50 PERCENT OF THE NATIVE TREES MUST BE THREE FEET TALL AND THE BALANCE OF THE TREES MAY BE ONE FOOT TALL. NATIVE SHRUBS MUST BE INSTALLED AT ONE GALLON CONTAINER SIZE. NO MORE THAN 25 PERCENT OF ONE SPECIES CAN BE UTILIZED.

WETLAND ENHANCEMENT - MECHANICAL REMOVAL OF EXOTIC VEGETATION & SUPPLEMENTAL PLANTING
TOTAL AREA OF WETLAND ENHANCEMENT = 44.49 AC (195,584 SF)
1 TREE EVERY 100' OC FOR 187,308 SF

FORESTED WETLAND RESTORATION
TOTAL AREA OF WETLAND ENHANCEMENT = 456.47 AC (2,416,273 SF)
WETLAND ENHANCEMENT SATISFIED BY REQUIRED BUFFER = 47.31 AC (218,249 SF)

HERBACEOUS WETLAND RESTORATION
TOTAL AREA OF WETLAND ENHANCEMENT = 413.38 AC (581,962 SF)
1 TREE EVERY 100' OC FOR 67,082 SF

NOTE: ALL LANDSCAPE REQUIREMENTS TO BE PROVIDED PRIOR TO COMMENCEMENT OF MINE EXCAVATION.

LANDSCAPE PLAN MATERIAL SCHEDULE:

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists trees like Acer rubrum, Pinus eliotii var. densa, Quercus virginiana, Quercus laurifolia, Taxodium distichum.

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists shrubs like Chrysothamnus icaco, Florida privet, Hamelia patens, Myrica cerifera, Psychotria nervosa, Serenoa repens.

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists herbaceous seeds like Aristida stricta, Muhlenbergia capillaris, Panicum virgatum, Spartina bakeri.

Table with columns: QTY, DESCRIPTION, SPECIFICATION. Lists miscellaneous items like Bahia sod - Paspalum notatum, Pine straw mulch.

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists herbaceous plants like Andropogon spp., Aristida stricta, Bacopa monnieri, Canna flaccida, Cyperus spp., Elleocharis cellulosa, Eugenia elongata, Eugenia geniculata, Eugenia interstincta, Fuirena breviseta, Iris virginicus, Muhlenbergia capillaris, Nuphar advena, Nymphaea odorata, Nymphaea divergens, Nymphaea lundata, Nymphaea microcarpa, Rhytnchospora tracyi, Sagittaria lancifolia, Spartina bakeri, Tripsacum dactyloides.

*MANY SPECIES OF ARE APPROPRIATE FOR SOUTH FLORIDA.
NOTE: NO ONE SPECIES FROM EACH CATEGORY MAY MAKE UP MORE THAN 25% OF TOTAL REQUIRED PER CATEGORY.

RECLAMATION CALCULATIONS:

LITTORAL AREA (PER SEC. 12-119 (B)(1)-(4))
ALL DISTURBED AREAS OF THE MINE SITE INCLUDING THE TOP OF LAKE BANKS MUST BE STABILIZED WITH NATIVE PLANTS, SOO OR GRASS SEEDING AT COMPLETION OF MINING OR COMPLETION OF A SEPARATE MINING CELL OR AREA.

RECLAMATION MUST BE COMPLETED ALONG THE PERIMETER OF THE EXCAVATION AND WITHIN THE EXCAVATED LAKE. A MINIMUM AREA EQUIVALENT TO 25 PERCENT OF THE POST CONSTRUCTION LAKE (MINE FOOTPRINT) SURFACE AREA MUST HAVE A LITTORAL ZONE COMPOSED OF CREATED WETLANDS TO IMPROVE WATER QUALITY AND CREATE WILDLIFE HABITAT. THESE CREATED WETLANDS MUST BE A MINIMUM OF 50 FEET WIDE AND MEANDERING UP TO 100 FEET IN WIDTH FOR AN EXPANSIVE WETLAND LITTORAL ZONE.

THE ENTIRE CREATED WETLAND LITTORAL ZONE MUST BE PLANTED WITH NATIVE HERBACEOUS WETLAND PLANTS (THREE FEET ON CENTER). IN ADDITION, TEN PERCENT OF THE CREATED WETLAND LITTORAL ZONE MUST CONSIST OF NATIVE WETLAND SHRUBS (TEN FEET ON CENTER) AND NATIVE WETLAND TREES (25 FEET ON CENTER).

CREATED LITTORAL ZONE NATIVE WETLAND PLANTS MUST MEET OR EXCEED THE FOLLOWING STANDARDS: HERBACEOUS PLANTS BARE ROOT; SHRUBS 12 INCHES IN HEIGHT; AND, TREES THREE FEET IN HEIGHT.

STANDARD LITTORAL SHELF AREAS
HERBACEOUS LITTORAL PLANTS (3' OC FOR 387,854 SF) = 45.9 AC (287,664 SF)
HERBACEOUS LITTORALS REQUIRED = 45,524 LITTORALS REQUIRED

CREATED WETLAND LITTORAL ZONES / LITTORAL MARSH DRAINAGE AREAS
HERBACEOUS LITTORAL PLANTS (3' OC FOR 2,896,740 SF) = 286.5 AC (2,896,740 SF)
370,763 LITTORALS REQUIRED

WILDLIFE HABITAT (PER SEC. 12-113 (p))
A 300 FOOT WIDE AREA MUST BE PLANTED WITH A CONTINUOUS NATIVE SHRUB HEDGE (33 SHRUBS PER 100 LINEAR FEET, MINIMUM THREE-GALLON CONTAINER SIZE) ALONG THE PERIMETER OF THE HABITAT AREA AND A MINIMUM OF 20 NATIVE TREES PER 100 LINEAR FOOT CLUSTERED (MINIMUM TEN TREES PER CLUSTER, MINIMUM 7-GALLON CONTAINER SIZE) WITHIN THE HABITAT AREA TO PROVIDE COVER.

NORTHERN WILDLIFE HABITAT = 300' WIDTH REQUIRED = 23,349' WIDTH PROVIDED
SHRUB HEDGE (4,539 LF OF PERIMETER @ 33 SHRUBS PER 100 LINEAR FEET) = 838 SHRUBS REQUIRED
TWENTY 7 GALLON TREES PER 100 FEET = 2,878 TREES REQUIRED

SOUTHERN WILDLIFE HABITAT = EXISTING
INDIGENOUS PRESERVATION & REPLANTING (PER SEC. 12-113 (m))
ON-SITE INDIGENOUS REPLANTING PLANS APPROVED BY THE COUNTY MUST INCLUDE A MINIMUM OF FOUR NATIVE TREE AND FOUR NATIVE SHRUB SPECIES.

FORESTED WETLAND RESTORATION
TOTAL AREA OF WETLAND ENHANCEMENT = 456.47 AC (2,416,273 SF)
1 TREE EVERY 100' OC FOR 3,728,738 SF

HERBACEOUS WETLAND RESTORATION
TOTAL AREA OF WETLAND ENHANCEMENT = 413.38 AC (581,962 SF)
1 TREE EVERY 100' OC FOR 67,082 SF

SOUTH NATURAL HABITAT NATIVE RANGELAND
TOTAL AREA OF WETLAND ENHANCEMENT = 456.47 AC (2,416,273 SF)
1 TREE EVERY 100' OC FOR 67,082 SF

NORTH NATURAL HABITAT NATIVE RANGELAND
TOTAL AREA OF WETLAND ENHANCEMENT = 456.47 AC (2,416,273 SF)
1 TREE EVERY 100' OC FOR 67,082 SF

INDIGENOUS PRESERVATION AREA (PER SEC. 12-113 (m))
MINES MUST PROVIDE 25 PERCENT OF THE PROJECT SITE AS INDIGENOUS PRESERVATION OR AS ON-SITE INDIGENOUS REPLANTING IF THE PROPERTY DOES NOT CONTAIN EXISTING INDIGENOUS PLANT COMMUNITIES.

TOTAL PROPERTY AREA = 41,803.5 AC
TOTAL PROJECT AREA (MPO BOUNDARY) = 41,732.75 AC
INDIGENOUS PRESERVATION AREA REQUIRED = 4,633.1 AC (25%)

RECLAMATION PLAN MATERIAL SCHEDULE:

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists trees like Acer rubrum, Annonia glabra, Fraxinus caroliniana, Ilex cassine, Magnolia virginiana, Myrica cerifera, Pinus eliotii var. densa, Quercus virginiana, Quercus laurifolia, Rapanea punctata, Taxodium distichum.

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists shrubs like Cerphalanthus occidentalis, Chrysothamnus icaco, Hamelia patens, Psychotria nervosa.

Table with columns: QTY, BOTANICAL NAME, COMMON NAME, SPECIFICATION, NATIVE. Lists herbaceous plants like Andropogon spp., Aristida stricta, Bacopa monnieri, Canna flaccida, Cyperus spp., Elleocharis cellulosa, Eugenia elongata, Eugenia geniculata, Eugenia interstincta, Fuirena breviseta, Iris virginicus, Muhlenbergia capillaris, Nuphar advena, Nymphaea odorata, Nymphaea divergens, Nymphaea lundata, Nymphaea microcarpa, Rhytnchospora tracyi, Sagittaria lancifolia, Spartina bakeri, Tripsacum dactyloides.

HERBACEOUS
TOTAL AREA OF WETLAND ENHANCEMENT = 413.38 AC (581,962 SF)
1 TREE EVERY 100' OC FOR 67,082 SF

FORESTED WETLAND RESTORATION
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1 TREE EVERY 100' OC FOR 67,082 SF

NORTH NATURAL HABITAT NATIVE RANGELAND
TOTAL AREA OF WETLAND ENHANCEMENT = 456.47 AC (2,416,273 SF)
1 TREE EVERY 100' OC FOR 67,082 SF

INDIGENOUS PRESERVATION AREA PROVIDED PRIOR TO MPO
FORESTED WETLAND ENHANCEMENT & PRESERVATION = 230.16 AC
HERBACEOUS WETLAND ENHANCEMENT & PRESERVATION = 239.36 AC

INDIGENOUS PRESERVATION AREA PROVIDED POST MINING
FORESTED WETLAND RESTORATION = 437.44 AC
HERBACEOUS WETLAND ENHANCEMENT & PRESERVATION = 27.24 AC
NATURAL HABITAT / NATIVE RANGELAND RESTORATION = 193.26 AC

TOTAL INDIGENOUS PRESERVATION AREA PROVIDED PRIOR TO MPO = 4703.09 AC
TOTAL INDIGENOUS PRESERVATION AREA PROVIDED POST MINING = 4237.94 AC
TOTAL INDIGENOUS PRESERVATION AREA PROVIDED = 8941.03 AC (54%)

PROJECT: TROYER BROTHERS MINE
ADDRESS: 14700 TROYER BROS. RD. FORT MYERS, FL 33913

CLIENT: TROYER BROTHERS FLORIDA, INC.

CONSULTANT: MORRIS DEPEW
ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS
FL. CH. NO. 8532 - FL. CERT. NO. LB5919 - FL. C200000333

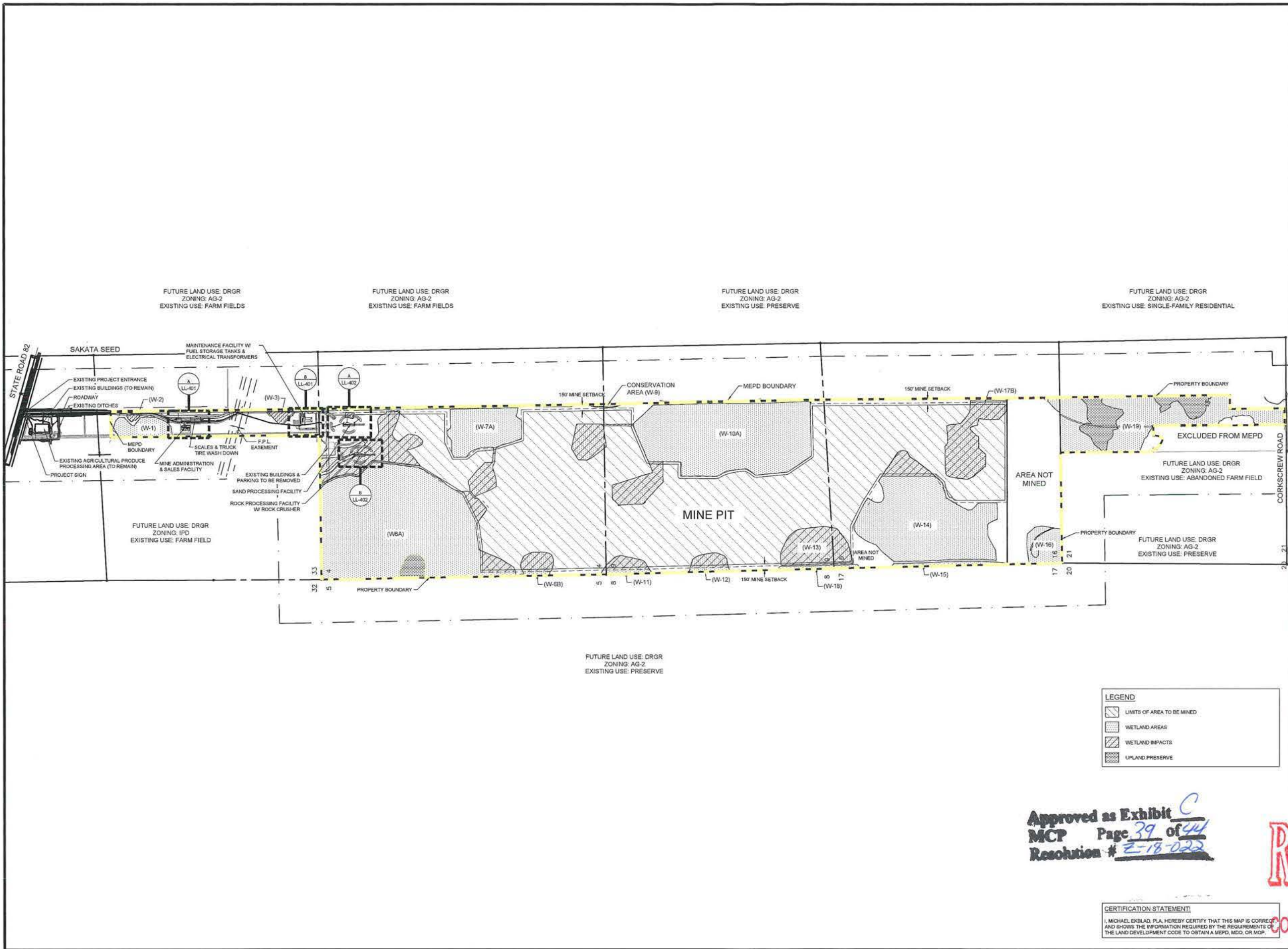
Fort Myers 2891 Center Pointe Drive
Tallahassee 113 South Monroe Street
Destin 499 Grand Boulevard

REVISIONS DATE
PROJECT MANAGER: RMS
DRAWING BY: DAL
JURISDICTION: LEE COUNTY
DATE: 10/4/2017
TITLE: LANDSCAPE SPECIFICATIONS
FL LIC. # LA 6667058
AUG 30 2019
JOB/FILE NUMBER: 15117-05
COMMUNITY DEVELOPMENT

Approved as Exhibit MCP Page 38 of 44 Resolution # E-18-032

RECEIVED SHEET NUMBER LP 601

DCI 2016-00025



LEGEND

- [Hatched Box] LIMITS OF AREA TO BE MINED
- [Dotted Box] WETLAND AREAS
- [Cross-hatched Box] WETLAND IMPACTS
- [Stippled Box] UPLAND PRESERVE

Approved as Exhibit C
 MCP Page 39 of 44
 Resolution # 2-18-022

CERTIFICATION STATEMENT
 I, MICHAEL EKBLAD, P.L.A. HEREBY CERTIFY THAT THIS MAP IS CORRECT AND SHOWS THE INFORMATION REQUIRED BY THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE TO OBTAIN A MEPD, MCO, OR MOP.

PROJECT:
 TROYER BROTHERS MINE

ADDRESS:
 14700 TROYER BROS. RD.
 FORT MYERS, FL. 33913

CLIENT:
 TROYER BROTHERS FLORIDA, INC.

CONSULTANT:
 MORRIS DEPEW
 ENGINEERS • PLANNERS • SURVEYORS
 LANDSCAPE ARCHITECTS
 FL. CA. NO. 6022 / FL. CERT. NO. 18099 / LC20000300

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 2391 Center Pointe Drive
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 (239) 337-5900
 Fax: (239) 337-5954
 Toll Free: 855-337-7341

Tallahassee:
 113 South Monica Street
 1st Floor
 Tallahassee, Florida 32301
 Toll Free: 855-337-7341

Destin:
 455 Grand Boulevard
 Suite 205
 Miramar Beach, FL 32550
 Toll Free: 855-337-7341

MICHAEL G. EKBLAD
 FL. LIC. # LA 6967058

DRAWING IS NOT VALID WITHOUT AN EMBOSSED SEAL WITH AN ORIGINAL SIGNATURE BY THE LANDSCAPE ARCHITECT OF RECORD

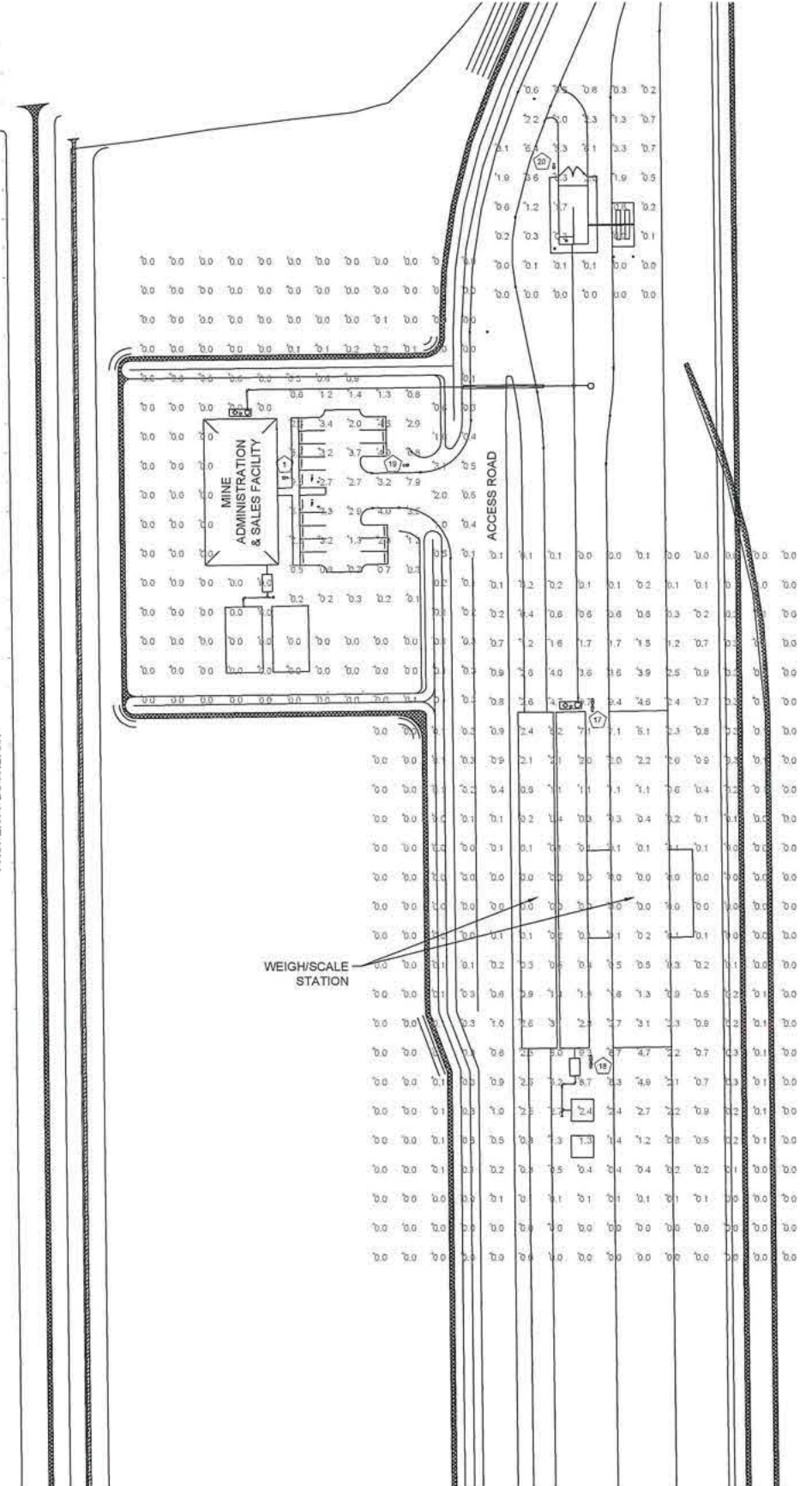
REVISIONS	DATE

PROJECT MANAGER: RMS
 DRAWING BY: DAL
 JURISDICTION: LEE COUNTY
 DATE: 9/21/2017
 TITLE: PHOTOMETRIC PLAN

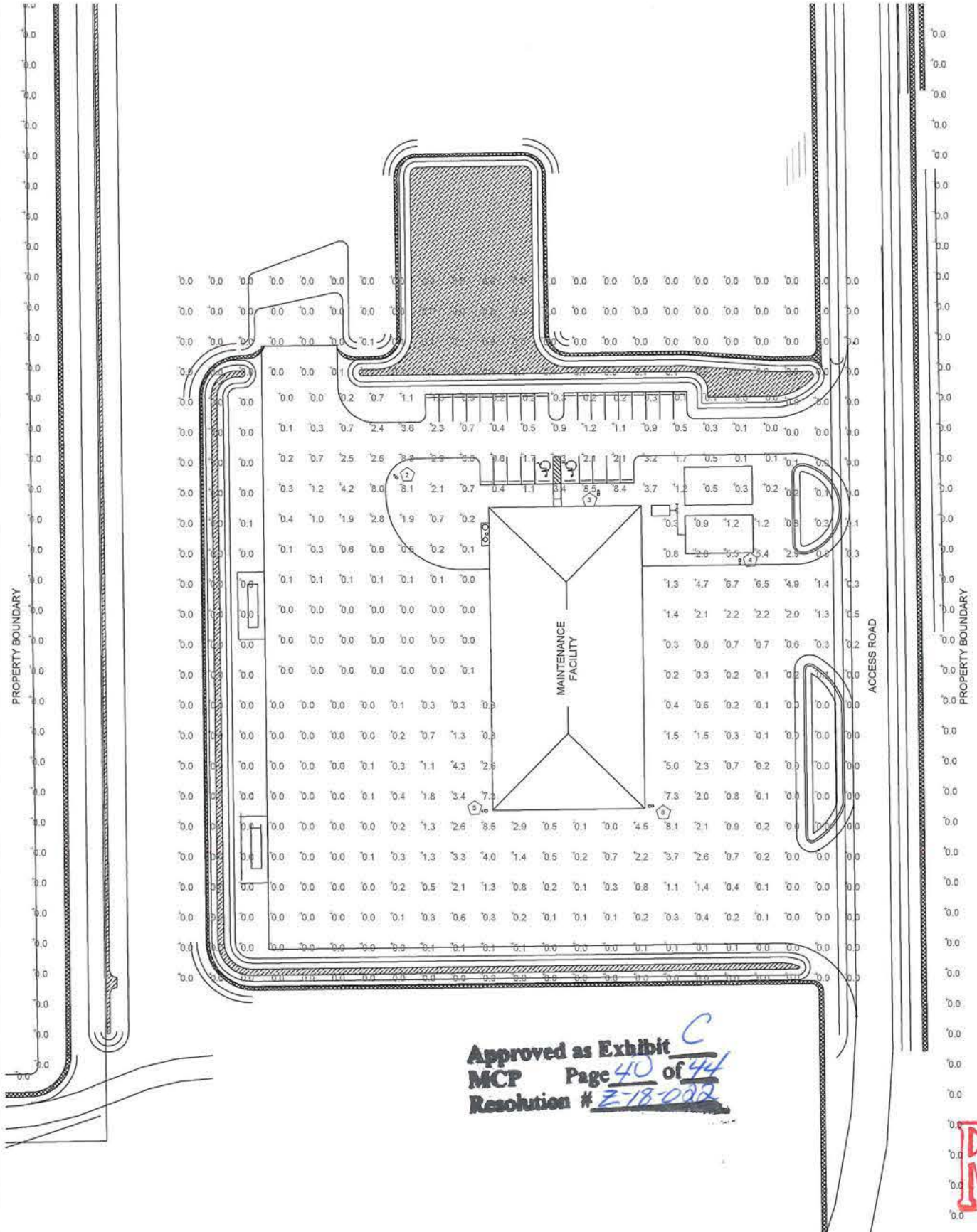
SHEET NUMBER: LL-101
 AUG 30 2019

SCALE 1"=1000'
 0 500 1000

COMMUNITY DEVELOPMENT
 JOB FILE NUMBER: 15117-05



A MINE ADMINISTRATION & SALES FACILITY AND WEIGH STATION
SCALE: 1"=50'



B MAINTENANCE FACILITY
SCALE: 1"=40'

Approved as Exhibit **C**
MCP Page **40** of **44**
Resolution # **Z-18-002**

PROJECT:
TROYER BROTHERS MINE
ADDRESS:
14700 TROYER BROS. RD.
FORT MYERS, FL. 33913

CLIENT:
TROYER BROTHERS FLORIDA, INC.

CONSULTANT:

Fort Myers
2851 Center Pointe Drive
Unit 100
Fort Myers, Florida 33916
(239) 937-0993
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499 Grand Boulevard
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Toll free: 866-337-7341

MICHAEL G. EKBLAD
FL LIC. # LA 6667056

DRAWING IS NOT VALID WITHOUT AN EMBOSSED SEAL WITH AN ORIGINAL SIGNATURE BY THE LANDSCAPE ARCHITECT OF RECORD.

REVISIONS	DATE

PROJECT MANAGER: RMS
DRAWING BY: DAL
JURISDICTION: LEE COUNTY
DATE: 9/21/2017

TITLE:
PHOTOMETRIC ENLARGEMENTS

SHEET NUMBER:
AUG 30 2019 LL-401

COMMUNITY DEVELOPMENT
JOB/FILE NUMBER: 15117-05

© COPYRIGHT MORRIS DEPEW ASSOCIATES, INC. ALL RIGHTS RESERVED. 9/21/2017 2:18:11 PM - HGS - Troyer Brothers - Rock Mine (DWG) 15117-05-MDO PLANS/Current Plans/15117-05 LL-401 PHOTOMETRIC ENLARGEMENTS.dwg

DCI 2016-00025

LUMINAIRE SCHEDULE

Table with 8 columns: SYM, LABEL, QTY, MANUFACTURER, MODEL NUMBER, DESCRIPTION, LAMP, LUMENS, LLF, WATTS. Contains two rows of luminaire specifications.

STATISTICS

Table with 5 columns: DESCRIPTION, SYM, AVG, MAX, MIN. Lists various site statistics such as parking lot, vicinity, and property boundary.

LUMINAIRE LOCATIONS

Table with 5 columns: SYM, LABEL, LOCATION (EASTING, NORTHING), MOUNTING HEIGHT (FT). Lists 20 luminaire locations with their respective coordinates and heights.

- NOTES: 1. SHEET LISTS PHOTOMETRIC ANALYSIS... 2. CHECK THE PLACE OF ALL LIGHTING FIXTURES... 3. ALL IES FILES PROVIDED BY MANUFACTURER... 4. REFER TO LIGHT FIXTURE ELECTRICAL... 5. ELECTRICAL WIRING SHALL BE DESIGNED... 6. REFER TO THE FINAL... 7. IF ANY OUTDOOR LIGHT FIXTURE... 8. ONLY ONCE LUMINAIRE... 9. ALL NON-RESIDENTIAL... 10. FINAL PLACEMENT...

Product information for The Archetype luminaire, including Type: Pole, Catalog number, Specifications, and a technical diagram showing dimensions and mounting details.

Product information for The Archetype luminaire, including Standard Features, Mounting options, Fixture details, Electrical Module, Lamp specifications, and Finish options.

Product information for The Archetype luminaire, including Optional Features like Wall Mounting, Photocell Receptacle, Mounting, Convex Glass Lens, and Polycarbonate Lens.

Product information for The Archetype luminaire, including Optional Features like House-side Shield, Neighbor Friendly Shield, Convex Glass Lens, and Horizontal Slipfit Mount.

Product information for The Archetype luminaire, including Optional Features like Special Options for Street Lighting, Vertical Slipfit Mounts, and Terminal Block.

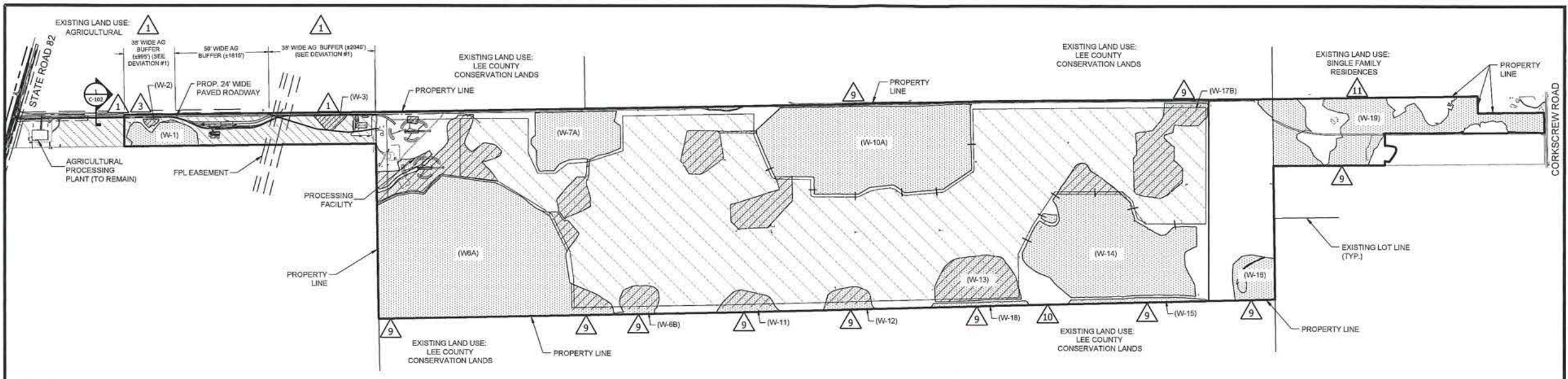
Project information for TROYER BROTHERS MINE, including Project name and Address: 14700 TROYER BROS. RD. FORT MYERS, FL 33913.

Client information for TROYER BROTHERS FLORIDA, INC., including Client name and address.

Consultant information for MORRIS DEPEW ENGINEERS PLANNERS & SURVEYORS, including Consultant name, address, and contact information.

Consultant signature block for MICHAEL G. EKBLAD, including name, title, and license information.

Revisions table and drawing title block, including a 'RECEIVED' stamp dated AUG 30 2019 and drawing title: PHOTOMETRIC DETAILS.



PROJECT:
TROYER BROTHERS MINE

ADDRESS:
 14700 TROYER BROS. RD.
 FORT MYERS, FL. 33913

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CONSULTANT:
MORRIS DEPEW
 ENGINEERS • PLANNERS • SURVEYORS
 LANDSCAPE ARCHITECTS
 FL DA NO. 5522 / FL CERT NO. L06891 / LC28000230

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 2861 Center Pointe Drive
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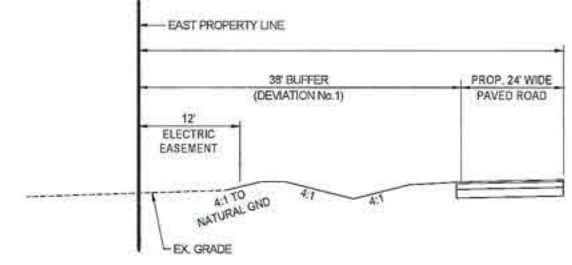
Tallahassee
 113 South Monroe Street
 1st Floor
 Tallahassee, Florida 32301
 Tallahassee: 904-337-7341

Destin
 496 Grand Boulevard
 Suite 205
 Miramar Beach, FL 32550
 Tallahassee: 866-337-7341

REVISIONS	DATE

PROJECT MANAGER: RMS
 DRAWING BY: DAL
 JURISDICTION: LEE COUNTY
 DATE: 9/21/2017
 TITLE:

DEVIATIONS DURING MINING
 SHEET NUMBER: C-102
 SCALE 1"=1000'
 AUG 30 2019
 COMMUNITY DEVELOPMENT



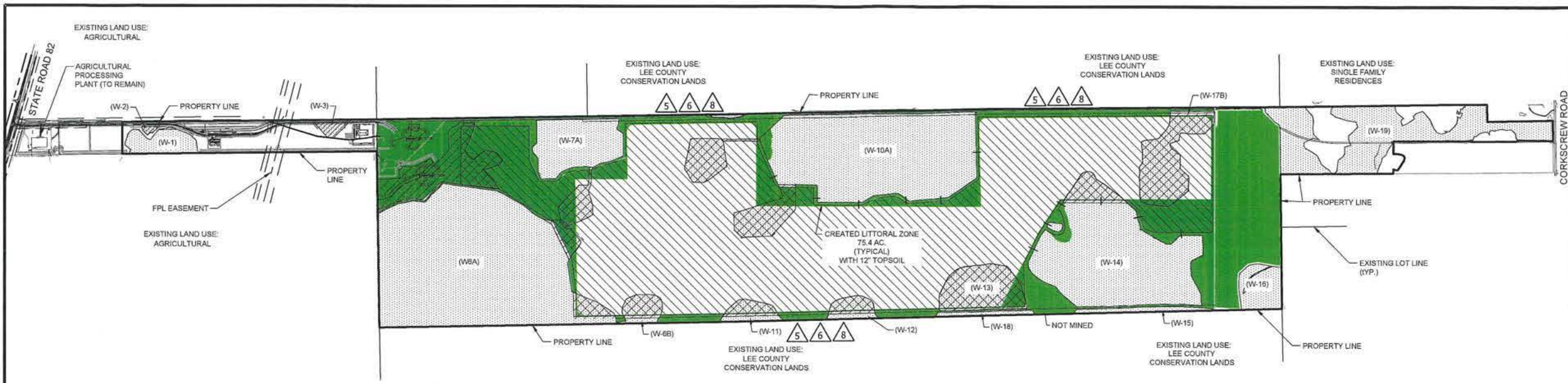
1 DEVIATION 1 - AGRICULTURAL BUFFER
 Scale: N.T.S.

Approved as Exhibit C
MCP Page 43 of 44
Resolution # 2-18-022

- DEVIATIONS:
- 1 AGRICULTURAL BUFFER
 - 3 MEANS OF INGRESS OR EGRESS
 - 9 NATIVE VEGETATION TO REMAIN
 - 10 RESTORATION IN LIEU OF BUFFER
 - 11 NATIVE VEGETATION TO REMAIN
- LEGEND
- [Hatched Box] LIMITS OF AREA TO BE MINED
 - [Dotted Box] WETLAND AREAS
 - [Cross-hatched Box] WETLAND IMPACTS



DCI 2016-00025



PROJECT:
TROYER BROTHERS MINE

ADDRESS:
14700 TROYER BROS. RD.
FORT MYERS, FL 33913

CLIENT:
TROYER BROTHERS FLORIDA, INC.

CONSULTANT:
MORRIS DEPEW
ENGINEERS • PLANNERS • SURVEYORS
LANDSCAPE ARCHITECTS
FL. CA. NO. 6532 / FL. CERT. NO. L08491 / LC28000030

Fort Myers
2891 Center Pointe Drive
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Fort Myers, Florida 33916
(239) 337-5883
Fax: (239) 337-3964
Toll free: 866-337-7341

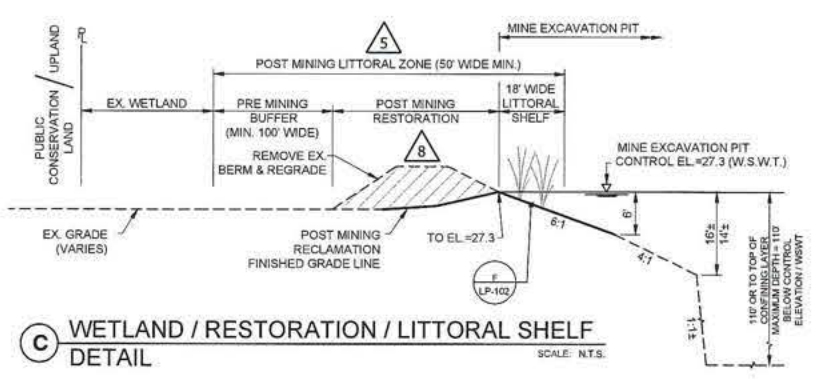
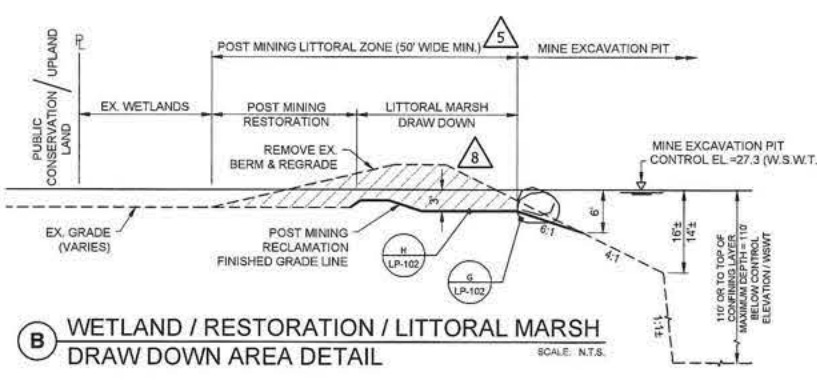
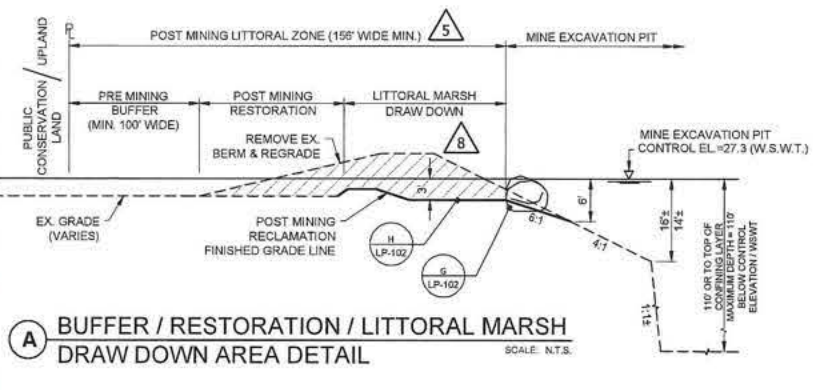
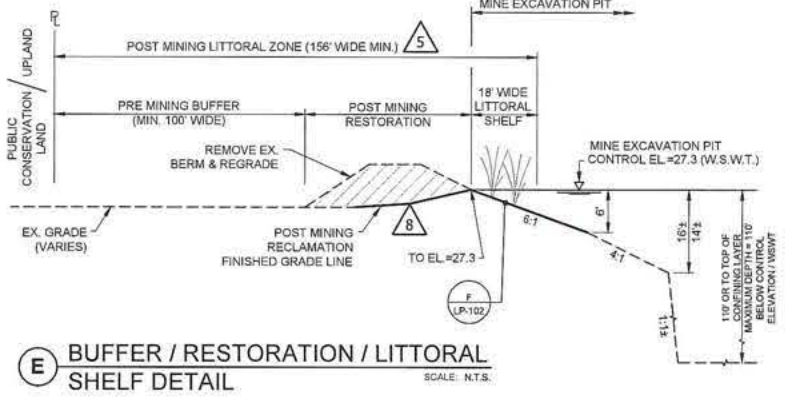
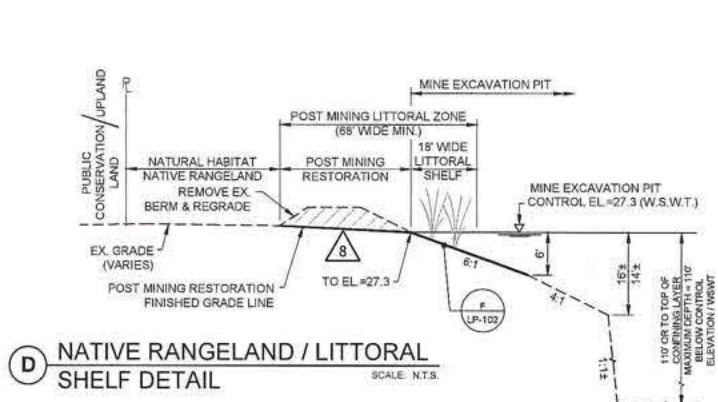
Tallahassee
113 South Moravia Street
1st Floor
Tallahassee, Florida 32301
Toll free: 866-337-7341

Destin
496 Grand Boulevard
Suite 205
Miramar Beach, FL 32550
Toll free: 866-337-7341

- DEVIATIONS:**
- 5 LOCATION OF LITTORAL ZONE
 - 6 COMPLETION OF RECLAMATION
 - 8 EXCAVATION FOR RECLAMATION

- LEGEND**
- [Hatched Box] LIMITS OF AREA TO BE MINED
 - [Dotted Box] WETLAND AREAS
 - [Cross-hatched Box] WETLAND IMPACTS
 - [Green Box] RECLAMATION (SEE LANDSCAPE PLANS FOR DETAILS)

Approved as Exhibit C
MCP Page 44 of 44
Resolution # Z-8-022



REVISIONS	DATE

PROJECT MANAGER: RMS
DRAWING BY: DAL
JURISDICTION: LEE COUNTY
DATE: 9/21/2017
TITLE: **DEVIATIONS POST MINING**

RECEIVED
AUG 30 2013
SCALE 1"=100'
SHEET NUMBER C-103
PROJECT NUMBER 15117-05
COMMUNITY DEVELOPMENT

DCI 2016-00025