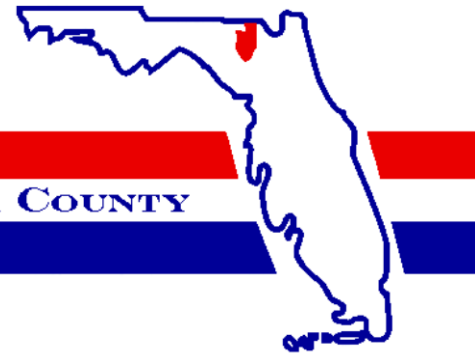


District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

August 31, 2020

VIA ELECTRONIC MAIL

Joshua Baxley, P.E.
Dewberry Engineers, Inc.
101 N. Monroe Street
Tallahassee, FL 32301

Re: Site and Development Plan 20 07 – Busy Bee
Planning and Zoning Board Determination Letter

Dear Mr. Baxley,

At the August 27, 2020 Planning and Zoning Board (“Board”) hearing, the Board approved your application for a Site and Development Plan for a proposed ±6,255 square foot canopy with four diesel fueling stations and ±97,539 square foot of additional impervious area for a self-service automotive station use as permitted in Section 4.5.2 of the County’s Land Development Regulations (“LDRs”) in accordance with Section 14.13 of the County’s LDRs.

Attached is a copy of the Board’s Resolution approving SDP 20 07.

If you have any questions, please do not hesitate to contact me at bstubbs@columbiacountyfla.com or (386) 754-7119.

Sincerely,

Brandon M. Stubbs
Community Development Director
Land Development Regulation Admin.

BOARD MEETS THE FIRST THURSDAY AT 5:30 P.M.
AND THIRD THURSDAY AT 5:30 P.M.

P.O. BOX 1529 ▼ LAKE CITY, FLORIDA 32056-1529 ▼ PHONE: (386) 755-4100

RESOLUTION NO. PZ SDP 20-07

A RESOLUTION OF THE PLANNING AND ZONING BOARD OF COLUMBIA COUNTY, FLORIDA, APPROVING A SITE AND DEVELOPMENT PLAN WITH APPROPRIATE CONDITIONS AND SAFEGUARDS FOR AN AUTOMOTIVE SELF-SERVICE USE LOCATED IN THE COMMERCIAL, HIGHWAY INTERCHANGE ("CHI") ZONING DISTRICT ON CERTAIN LANDS WITHIN THE UNINCORPORATED AREA OF COLUMBIA COUNTY, FLORIDA; REPEALING RESOLUTIONS IN CONFLICT; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, Ordinance No. 98-1, as amended, entitled Columbia County Land Development Regulations, hereinafter referred to as the Land Development Regulations, empowers the Planning and Zoning Board of Columbia County, Florida, hereinafter referred to as the Planning and Zoning Board, to approve, to approve with conditions, or to deny site and development plans in accordance with the Land Development Regulations;

WHEREAS, an application for a site development plan, as described below, has been filed with the County;

WHEREAS, the Planning and Zoning Board, has determined and found that approval of said site and development plan, as described below, would promote the public health, safety, morals, order, comfort, convenience, appearance, prosperity or general welfare; and

WHEREAS, the Planning and Zoning Board, has studied and considered the items enumerated in Section 14.13 of the Land Development Regulations and based upon said study and consideration has determined and found that:

1. A site and development plan was prepared and submitted to the County in accordance with the provisions of Section 14.13.1 of the Land Development Regulations;
2. Statements on ownership and control of the development and of conditions of ownership or control, use, and permanent maintenance of common open space, common facilities, or common lands to ensure preservation of such lands and facilities for their intended purpose and to ensure that such common facilities will not become a future liability for the Board of County Commissioners are sufficient;
3. Density and/or the intended use of the proposed development with particular attention to its relationship to adjacent and nearby properties and effect on those properties and relationship to the Comprehensive Plan are in accordance with the Comprehensive Plan and Land Development Regulations;
4. Ingress and egress to the development and proposed structures on the development provide for automotive and pedestrian safety, minimization of marginal friction with free movement of traffic on adjacent streets, separation of automotive traffic and pedestrian and other traffic, traffic flow and control, provision of services and servicing of utilities and refuse collection, and access in case of fire, catastrophe, or emergency;
5. Location and relationship of off-street parking and off-street loading facilities to thoroughfares and internal traffic patterns within the proposed development, with particular reference to automotive and pedestrian safety, traffic flow and control, access in case of fire or catastrophe, and screening and landscape are adequate;

6. Proposed screens and buffers sufficiently provide for the preservation of internal and external harmony and compatibility with uses inside and outside the proposed development;
7. Manner of stormwater management will not adversely affect the provisions for stormwater management on adjacent and nearby properties and overall public stormwater management capacities;
8. Provision for sanitary sewers is adequate in relationship to overall sanitary sewer availability and capacities;
9. Utilities, with reference to hook-in locations and availability and capacity for the uses projected are adequate;
10. Recreation facilities and open spaces, with attention to the size, location, and development of the areas as to adequacy, effect on privacy of adjacent and nearby properties and uses within the proposed development, and relationship to community open spaces and recreational facilities are adequate;
11. General amenities and convenience, with particular reference to appearance and general layout of the proposed development will be compatible and harmonious with properties in the general area and will not be in conflict with other development in the area as to cause substantial depreciation of property values; and
12. Said site and development plan conforms to all other standards imposed by the Land Development Regulations.

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING AND ZONING BOARD OF COLUMBIA COUNTY, FLORIDA, THAT:

Section 1. Pursuant to an application, SDP 20 07, an application by Joshua Baxley, P.E. of Dewberry Engineers, Inc., agent for The Kinjac Corporation, owner, for site and development plan approval for a proposed Automotive Self-Service use located in the Commercial, Highway Interchange ("CHI") Zone District in accordance with a site plan dated May 3, 2019, and submitted as part of an application dated July 30, 2020 to be located on property described, as follows:

A PART OF THE E1/2 OF THE NE1/4 OF SECTION 11 AND A PART OF THE W1/2 OF THE NW1/4 OF SECTION 12, ALL IN TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SW CORNER OF THE NE1/4 OF THE NE1/4 OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE RUN IN 1°47'49" WEST ALONG THE WEST LINE OF SAID NE1/4 OF THE NE1/4 A DISTANCE OF 200.03 FEET TO A POINT; THENCE RUN N 58°35'41" EAST A DISTANCE OF 1175.60 FEET TO THE WESTERLY RIGHT OF WAY LINE A DISTANCE OF 430 FEET TO A POINT; THENCE RUN S 57°35'41" WEST A DISTANCE OF 170 FEET ALONG THE NORTHERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL & REFINING COMPANY TO A POINT; THENCE S 37°35'53" EAST A DISTANCE OF 389.53 FEET ALONG THE WESTERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL AND REFINING COMPANY TO A POINT; THENCE RUN S 44°57'11" WEST ALONG THE NORTHERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY #10 A DISTANCE OF 233.30 FEET; THENCE RUN N 32°33'09" WEST A DISTANCE OF 185.30 FEET TO THE SOUTHERLY LINE OF SAID NE1/4 OF THE NE1/4 OF SECTION 11; THENCE RUNS S 87°48'01" WEST ALONG SAID SOUTHERLY LINE A DISTANCE OF 1057.53 FEET TO THE POINT OF BEGINNING.

Containing 15.69-acres, more or less.

Tax Parcel Numbers 11-3s-16-02063-000 and 11-3s-16-02063-001

Section 2. The Planning and Zoning Board, hereby approves the above referenced site and development plan subject to any conditions and safeguards, if any, hereinafter attached in Exhibit "A".

Section 3. A site and development plan made a part of this resolution by reference, shall govern the development of the above described property. Any deviation determined to be a major variation from the site and development plan submitted as part of this application shall be deemed a violation of the Land Development Regulations.

Section 4. The Land Development Regulation Administrator is hereby authorized to issue building permits pursuant to this resolution approving with conditions said site and development plan.

Section 5. The use of land approved by this site plan approval shall be in place, or a valid building permit shall be in force for the commencement of such land use within twelve (12) months of the granting of the site plan approval. If such land use is not in place or if a valid permit for the construction of such land use is not in effect, within twelve (12) months of the approval of the site plan, this resolution granting such site plan approval is thereby revoked and of no force and effect.

Section 6. All resolutions in conflict with this resolution are hereby repealed to the extent of such conflict.

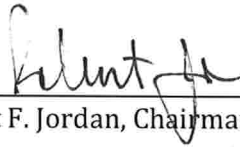
DULY ADOPTED in regular session with a quorum present and voting, by the Planning and Zoning Board, this 27th day of August 2020.

PLANNING AND ZONING BOARD OF
COLUMBIA COUNTY, FLORIDA,

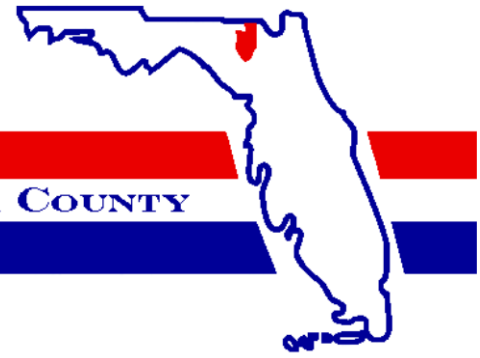
Attest:



Brandon M. Stubbs, Secretary to the
Planning and Zoning Board



Robert F. Jordan, Chairman



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Planning & Zoning Board Hearing Date:

August 27, 2020

SUBJECT: **SDP 20 07** - A request for Site Plan approval for a proposed ±6,255 square foot canopy with four diesel fueling stations and ±97,539 square foot of additional impervious area for a self-service automotive station use as permitted in accordance with Section 4.15.2 of the Land Development Regulations (“LDRs”). The subject property contains ±15.69-acre subject property.

APPLICANT/AGENT: Joshua Baxley, P.E., Senior Project Manager for Dewberry Engineers, Inc.

PROPERTY OWNER(S): The KINJAC Corporation

LOCATION: North of Interstate Highway-10 (I-10) and Vacant Commercial; South of Vacant Commercial and Quality Equipment & Parts; East of Vacant Commercial; West of U.S. Highway 41, NW Falling Creek Road, and Vacant Commercial; Columbia County, Florida.

PARCEL ID NUMBER(S): 11-3s-16-02063-000 & 11-3s-16-02063-001

ACREAGE: ±15.69 acres

EXISTING FLUM Highway Interchange

EXISTING ZONING Commercial, Highway Interchange (“CHI”)

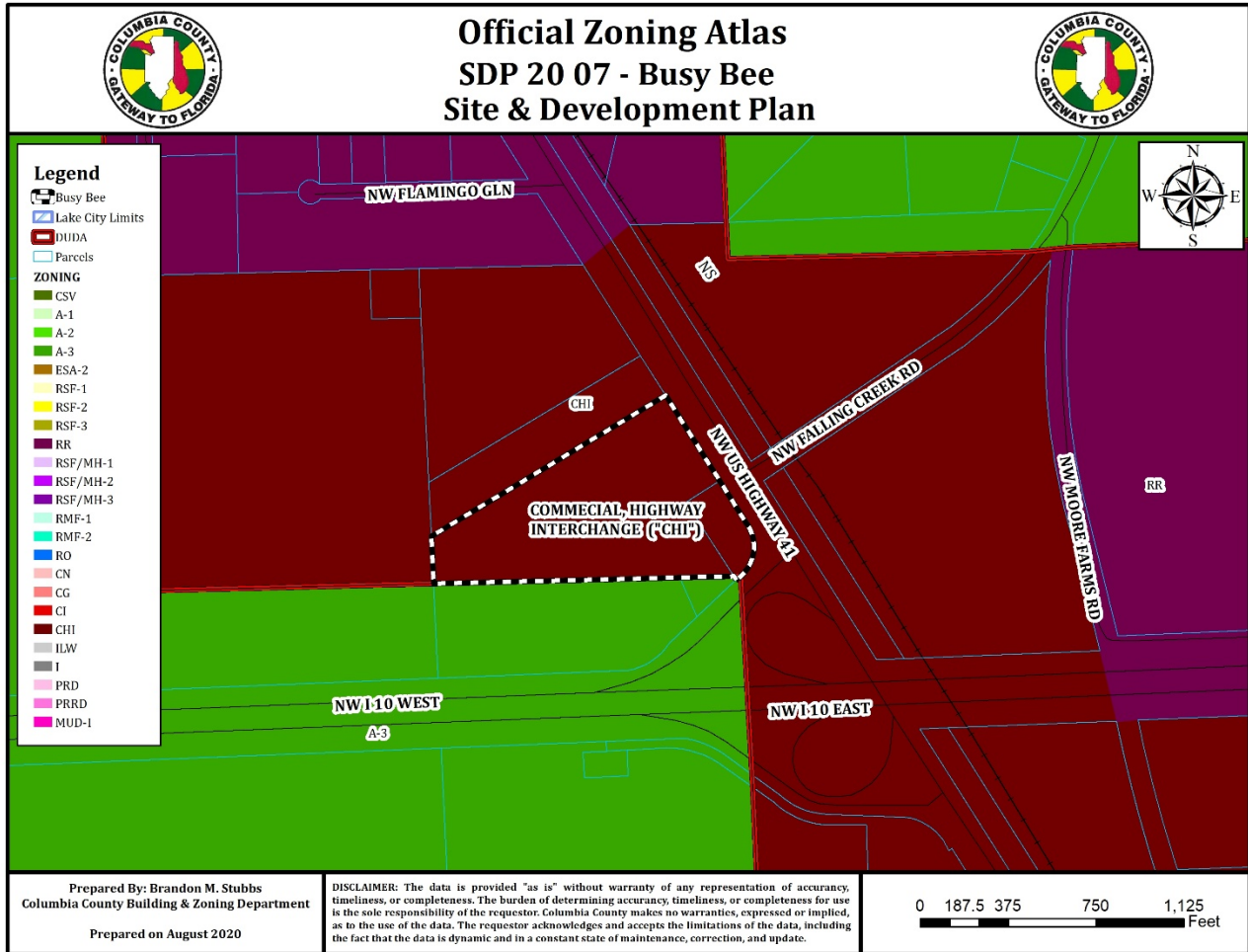
PROJECT PLANNER: Brandon M. Stubbs

BOARD MEETS THE FIRST THURSDAY AT 5:30 P.M.
AND THIRD THURSDAY AT 5:30 P.M.

SUMMARY

The subject property currently contains an automotive self-service station (Busy Bee); however, the applicant proposes an additional±6,255 square foot canopy with four diesel fueling stations and ±97,539 square foot of additional impervious area with associated parking, landscaping, stormwater, and other amenities. Access to the subject property is via State Road 41. The applicant proposes a new retention basin to contain stormwater runoff.

Map 1. Existing Official Zoning Atlas with Subject Property



The Commercial, Highway Interchange ("CHI") Zone District is described as follows in Section 4.15.1 of the Land Development Regulations ("LDRs"):

"The "CHI" Commercial, Highway Interchange category includes one zone district: CHI. This specialized district is intended for areas where adequate lot depth is available to provide development for vehicular-related uses primarily serving the traveling public. Uses in such district are subject to criteria and standards intended to preserve the character of the district and to minimize adverse impacts with abutting and nearby uses. This district shall only be applied to interstate highway interchange areas."

ZONING DISTRICT COMPARISON

Zoning District:	Commercial, Highway Interchange (“CHI”)
Max. Gross Density:	N/A
Minimum Lot Area	<p>Floor area of 10,000 sq. ft. or greater.</p> <ul style="list-style-type: none"> • Minimum site area: One acre. • Minimum lot width: 200 feet. <p>Floor area of 5,000 square feet but less than 10,000 square feet.</p> <ul style="list-style-type: none"> • Minimum site area: 20,000 square feet. • Minimum lot width: 125 feet. <p>Floor area of less than 5,000 square feet.</p> <ul style="list-style-type: none"> • Minimum site area: 10,000 square feet. • Minimum lot width: 100 feet.
Floor Area Ratio:	0.25
Typical Uses*:	Automotive Service and Self-Service Stations; Rental of Automotive Vehicles, Trailers, and Trucks; Restaurants; Motels; Retail Commercial Outlets; Churches and other Houses of Worship; Facilities for Storage and Distribution of Products, including Wholesale Activities; Warehousing (Including Yards); Business and Professional Offices

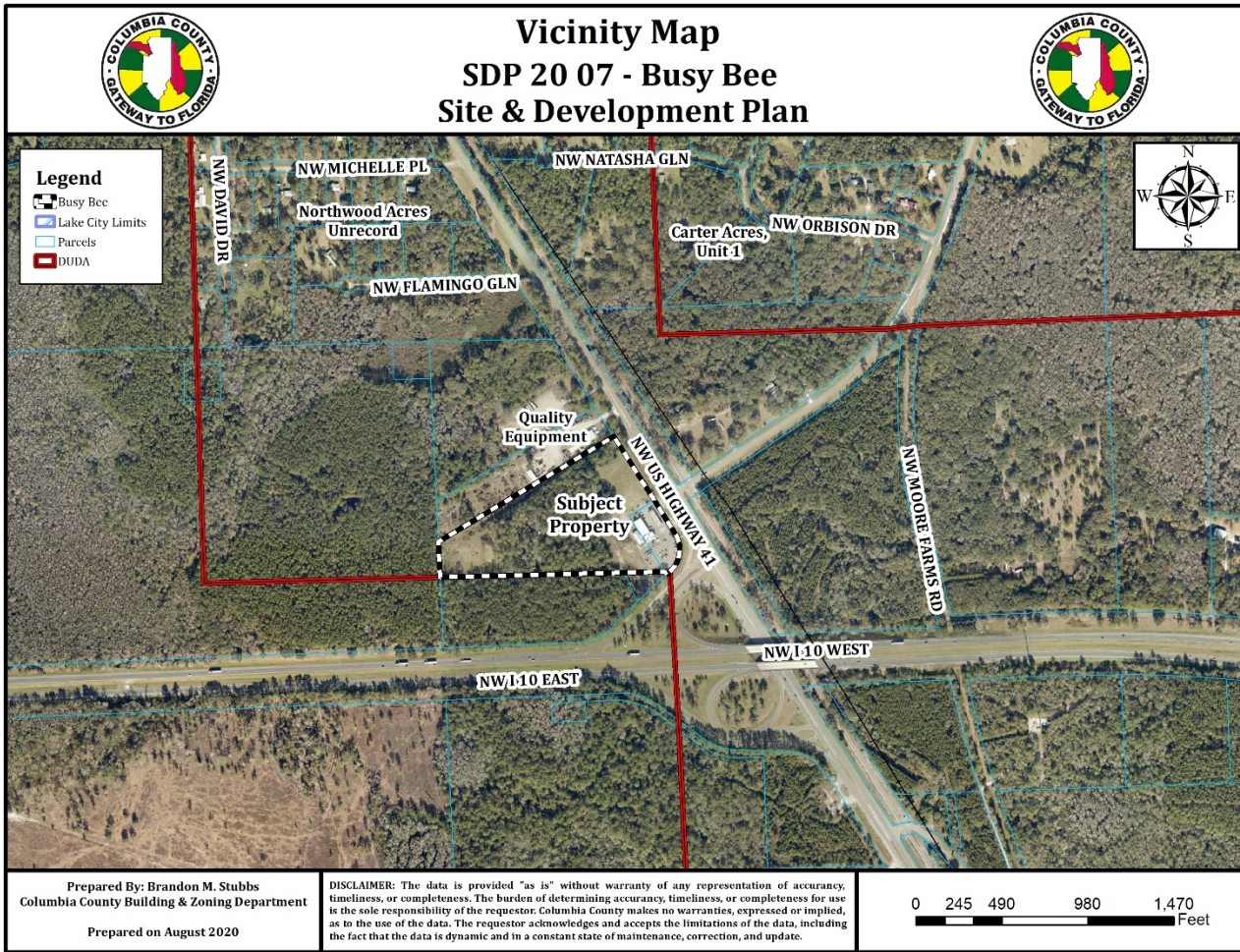
SURROUNDING USES

The existing uses, Future Land Use Map (“FLUM”) Designations, and zone districts of the surrounding area are identified in Table 1. Map 2 provides an overview of the vicinity of the subject property.

Table 1. Surrounding Land Uses

Direction	Existing Use(s)	FLUM Designation(s)	Zoning District(s)
North	Vacant Commercial/Quality Equipment	Highway Interchange	Commercial, Highway Interchange (“CHI”)
South	Vacant Commercial/Vacant Agriculture/ Interstate Highway-10 (“I-10”)	Highway Interchange/ Agriculture	Commercial, Highway Interchange (“CHI”)/ Agriculture-3 (“A-3”)
East	SW State Road 41/NW Falling Creek Rd/Vacant Commercial	Highway Interchange	Commercial, Highway Interchange (“CHI”)
West	Vacant Commercial	Highway Interchange	Commercial, Highway Interchange (“CHI”)

Map 2. Vicinity Map



CONSISTENCY WITH THE COMPREHENSIVE PLAN

The zoning designation is consistent with the underlying Future Land Use Map (“FLUM”) Designation. Below is a chart of the existing FLUM Designation and the existing zoning designation.

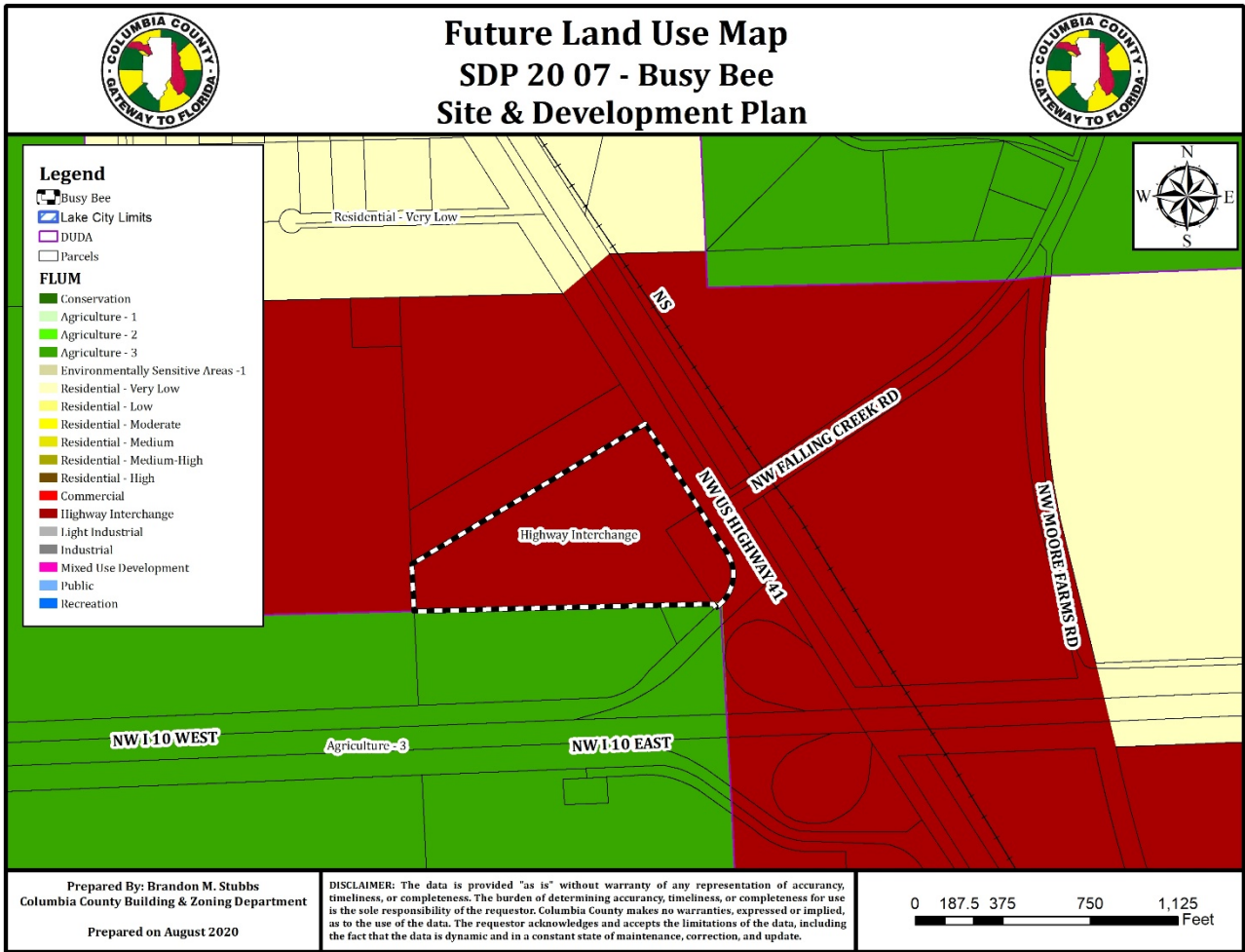
Table 2. Zoning Consistency with Underlying Future Land Use Map Designation

Existing FLUM Designation	Existing Zoning Designation	Consistent
Highway Interchange	Commercial, Highway Interchange (“CHI”)	✓

The following Comprehensive Plan Elements have Goals, Objectives, and Policies (GOPs) that support the proposed Site Specific Amendment to the Official Zoning Atlas:

- Future Land Use Element
- Transportation Element
- Sanitary Sewer, Solid Waste, Drainage, Potable Water, and Natural Groundwater Aquifer Recharge Element
- Capital Improvements Element

Map 3. Existing Future Land Use Map Designation



Staff has reviewed the application for Site Plan Approval for consistency with the Comprehensive Plan and finds the application consistent with the Comprehensive Plan and the Goals, Objectives, and Policies (GOPs) therein.

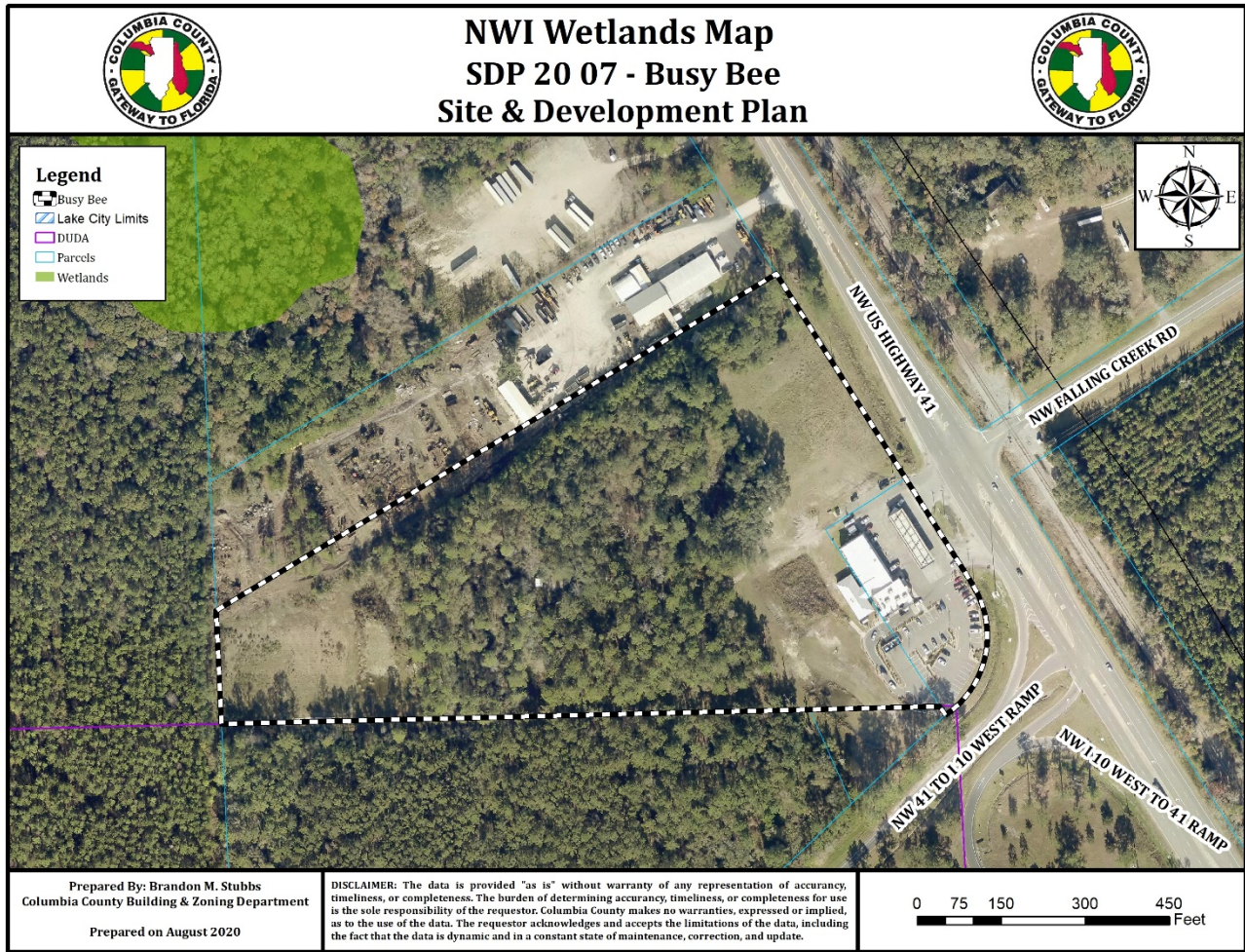
ENVIRONMENTAL CONDITIONS ANALYSIS

Wetlands

According to Illustration A-VI of the Comprehensive Plan, entitled Wetlands Areas, which is based upon the National Wetlands Inventory, dated 1987, and the National Wetlands Reconnaissance Survey, dated 1981, there are no wetlands located on the subject property.

Evaluation: Given no known wetlands are on the subject property, there are no issues related to wetland protection.

Map 4. Wetlands Map



Soil Survey

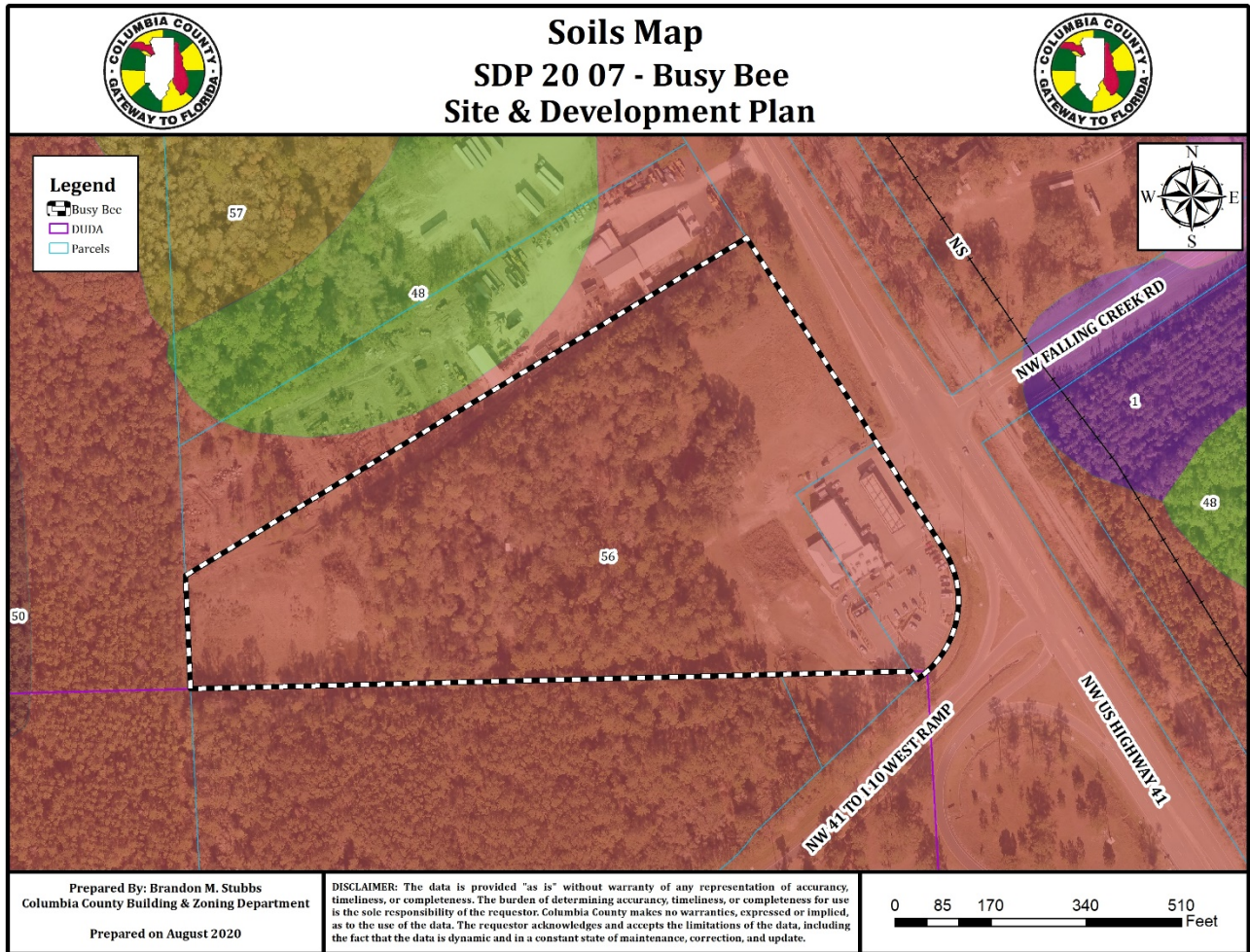
Each soil type found on the subject property is identified below. The hydrologic soil group is an indicator of potential soil limitations. The hydrologic soil group, as defined for each specific soil, refers to a group of soils which have been categorized according to their runoff-producing characteristics. These hydrologic groups are defined by the Soil Survey of Columbia County, Florida, dated October 1984. The chief consideration with respect to runoff potential is the capacity of each soil to permit infiltration (the slope and kind of plant cover are not considered, but are separate factors in predicting runoff). There are four hydrologic groups: A, B, C, and D. "Group A" soils have a higher infiltration rate when thoroughly wet and therefore have a lower runoff potential. "Group D" soils have very lower infiltration rates and therefore a higher runoff potential.

There is one (1) soil type found on the subject property:

- 1) Sapelo fine sand soils are poorly drained, nearly level soils in the flatwoods. The surface and subsurface layers are comprised of fine sand to a depth of 57 inches. The subsoil layer is comprised of sandy clay loam to a depth of 80 inches or more. Sapelo fine sand soils have moderate limitations for building site development and severe limitations for septic tank absorption fields.

Evaluation: The soil type on the subject property is Sapelo fine sand soils. Sapelo fine sand soils pose moderate limitations for building development and severe limitations for septic tank absorption field. The applicant shall be required to obtain a permit from the Florida Department of Environmental Health.

Map 5. Soils Map

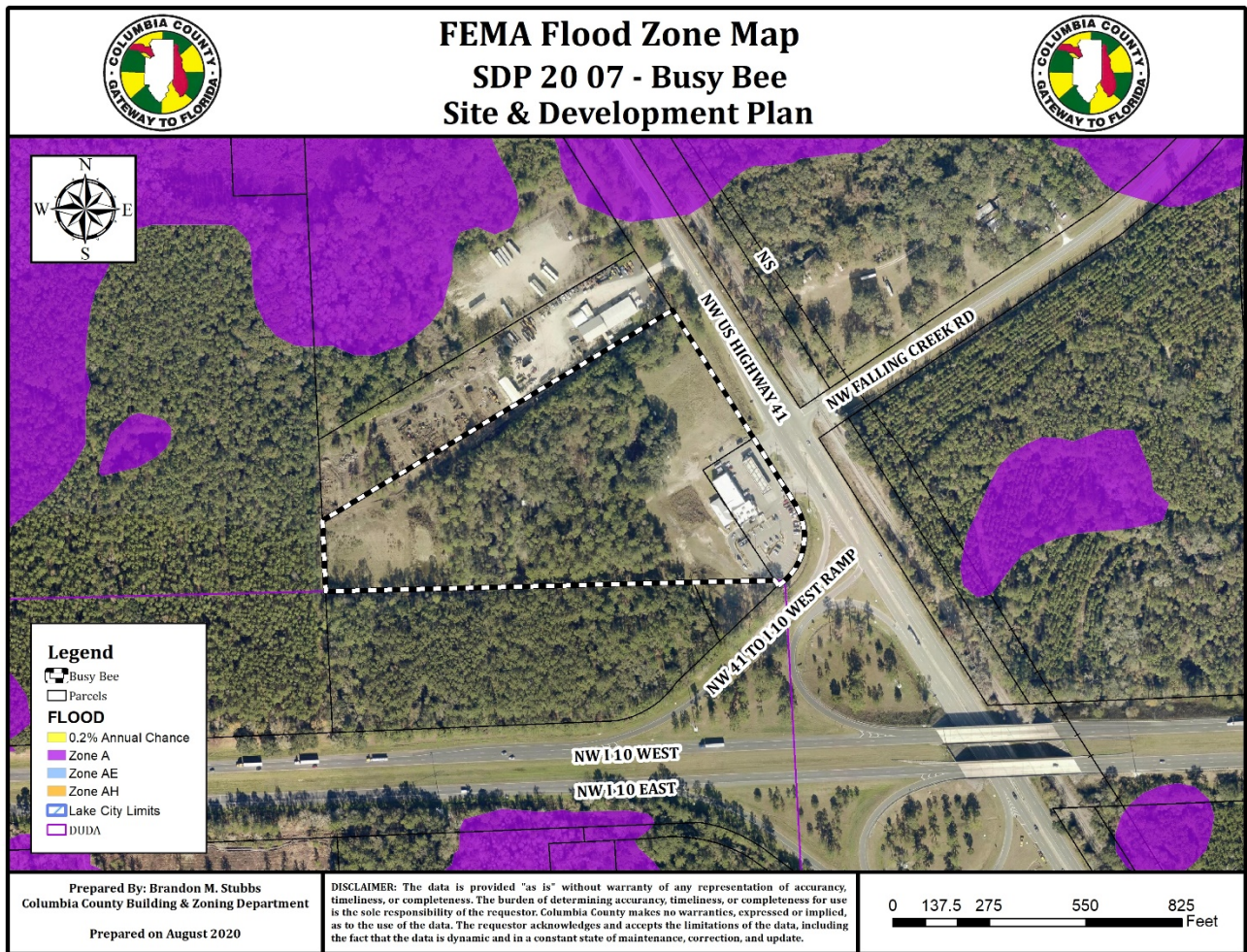


Flood Potential

Panel 0285D of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Series, dated November 2, 2018, indicates that the subject property is in Flood Zone "X" (areas determined to be outside of the 500-year floodplain).

Evaluation: Being the subject property is located in Flood Zone "X", there is no concern of flood on the subject property.

Map 6. FEMA FIRM Map (Flood Map)



Stream to Sink

According to the Stream to Sink Watersheds, prepared by the Suwannee River Water Management District and adopted by the Board of County Commissioners, dated June 2, 2001, the subject property is not located within a stream to sink area.

Evaluation: Section 4.2.38 of the County’s LDRs regulates Stream to Sink watershed areas; however, since the subject property is not located in a Stream to Sink Watershed, the requirements in Section 4.2.38 of the LDRs are not applicable.

Minerals

According to Illustration A-VII of the Comprehensive Plan, entitled Minerals, which is based upon Natural Resources, prepared by the Florida Department of Environmental Protection, 2012, the subject property is within an area known to contain Clayey Sand.

Evaluation: There are no issues related to minerals.

Historic Resources

According to Illustration A-II of the Comprehensive Plan, entitled Historic Resources, which is based upon the Florida Division of Historical Resources, Master Site File, dated 2013, there are no known historic

resources located on the subject property.

Evaluation: There are no issues related to historic Resources.

Aquifer Vulnerability

According to the Columbia County Floridan Aquifer System Protection Zone Map, prepared by the Advance GeoSpatial Inc., dated September 29, 2009, the subject property is located in a more vulnerable area.

Evaluation: While the subject property is located in a more vulnerable area, there is no issue related to aquifer vulnerability due to the additional requires for areas located in a Stream to Sink watershed area.

Vegetative Communities/Wildlife

According to Illustration V-I of the Data and Analysis Report, entitled Vegetative Communities, the subject property is located within a non-vegetative community.

Evaluation: There is no known wildlife habitats associated with a non-vegetative community; therefore, there is no issue related to vegetative communities or wildlife.

COMPLIANCE WITH THE LAND DEVELOPMENT REGULATIONS

Section 14.13 of the Land Development Regulations (“LDRs”) regulates Site and Development Plans. County Staff has reviewed the proposed Site Plan and has found the Site Plan to be in compliance with Section 14.13.

PUBLIC FACILITIES IMPACT

Traffic Impact

Table 3. Affected Comprehensive Plan Roadway Segments¹

Segment Number ²	Segment Description	Lanes	Functional Classification	Area Type	LOS
12(47)	U.S. Highway 41 (From County’s West Boundary to I-10)	2U	Principal Arterial	Highway Rural	D

1 Source: Columbia County Comprehensive Plan, Capital Improvements Element.
2 FDOT roadway segment number shown in parenthesis (when applicable.) For the purposes of concurrency management, Columbia County Comprehensive Plan segments that make up a portion of a larger FDOT roadway segment will be evaluated together when determining post development roadway capacity.

Table 4. Trip Generation¹

Land Use	AADT	PM Peak Hour
Trop Stop ² (ITE Code 950)	N/A	67
Total	N/A	67

1 Source: ITE Trip Generation, 8th Edition.
2 Formulas: AADT – ITE, 10th Edition: ADT – N/A trips per fueling station x 8 fueling stations; PM Peak Hour – 8.41 trips per fueling station x 8 fueling stations

Table 5. Projected Impact on Affected Comprehensive Plan Roadway Segments

Traffic System Category	U.S. 41 Segment 12 ¹
Maximum Service Volume ²	14,200
Existing Traffic ³	4,105
Reserved Trips ⁴	0
Available Capacity ⁴	10,095
Projected Daily Trips ⁵	N/A
Residual Capacity⁶	N/A
PM Peak Hour Traffic Analysis	U.S. 41 Segment 12 ¹
Maximum Service Volume ²	1,350
Existing Traffic ³	390
Reserved Trips ⁴	0
Available Capacity ⁴	960
Projected PM Peak Hour Trips ⁵	67
Residual Capacity⁶	893
¹ FDOT roadway segment number shown in parenthesis (when applicable.) For the purposes of concurrency management, Columbia County Comprehensive Plan segments that make up a portion of a larger FDOT roadway segment will be evaluated together when determining post development roadway capacity. ² Source: FDOT 2013 Quality/Level of Service Handbook, Generalized Annual Average Daily Volumes and Generalized Peak Hour Two-Way Volumes for Rural Undeveloped Areas. ³ Florida Department of Transportation, District II, 2014 Annual Average Daily Traffic Report. ⁴ Source: Columbia County September 2019 Concurrency Monitoring Report. ⁵ Trip Distributions ⁶ The application is for a Final Development Order. Facility capacity and concurrency will be reserved.	

Evaluation: The impacts generated by the development will not adversely affect the Level of Service (LOS) of the roadway segment identified above; therefore, the demand generated by the development is acceptable.

Potable Water Impacts

The subject property will be served potable water via private well. The proposed private well shall be size to meet or exceed the adopted level of service standard for potable water established within the Comprehensive Plan. *Note: Calculations are based upon Chapter 64E-6.008, F.S.*

Based upon the proposed use of Service Station, it is anticipated the proposed use will utilize a total of 4,750 Gallon Per Day (“GPD”).

An average Service Station use generates 250 gallon per day per water closet: 250GPD x 19 water closets = 4,750 Gallons Per Day.

Evaluation: The impacts generated by the development will not adversely affect the Level of Service (LOS) for potable water facilities; therefore, the demand generated by the development is acceptable.

Sanitary Sewer Impacts

The site is not located within a community centralized sanitary sewer system. The subject property will be served sanitary sewer via a private septic tank. The private septic tank shall be permitted by the Environmental Health Department based upon the anticipated flows. *Note: Calculations are based upon Chapter 64E-6.003, F.S.*

Based upon the proposed use of Service Station, it is anticipated the proposed use will generate a total of 4,750 Gallon Per Day (“GPD”).

An average Service Station use generates 250 gallon per day per water closet: 250GPD x 19 water closets = 4,750 Gallons Per Day.

Evaluation: The subject property is served via private septic tanks and shall be permitted by the Environmental Health Department. The applicant was issued a variance on June 6, 2016 by the Florida Department of Environmental Health subject to the applicant obtaining and maintaining an annual onsite sewer treatment and disposal system operating permit in accordance with Subsection 64e-6.003(5), Florida Administrative Code; therefore, the impacts generated by the development will not adversely affect the Level of Service (LOS) for sanitary sewer facilities; therefore, the demand generated by the development is acceptable.

Solid Waste Impacts

Solid waste facilities for uses to be located on the site are provided at the sanitary landfill. The level of service standard established within the Comprehensive Plan for the provision of solid waste disposal is currently being met or exceeded.

Based upon 5.5 pounds of solid waste per 1,000 square foot gross floor area per day:

$9.843 (9,843 \text{ square foot gross floor area}) \times 5.5 (\text{pounds of solid waste } 1,000 \text{ square foot gross floor area per day}) = 54.14 \text{ pounds of solid waste generated per day.}$

Total County average solid waste disposal per day (including municipalities) = 471,300 pounds per day.

Based upon the annual projections of solid waste disposal at the landfill for 2015, solid waste facilities are anticipated to continue to meet or exceed the adopted level of service standard for solid waste facilities, as provided in the Comprehensive Plan, after adding the solid waste demand generated by a charter public school.

Evaluation: The impacts generated by the development will not adversely affect the Level of Service (LOS) of solid waste facilities; therefore, the demand generated by the development is acceptable.

Recreation Facilities

The proposed development is nonresidential in nature; therefore, there are no impacts to recreation facilities. The development will have no impact to the Level of Service (LOS) of recreation facilities.

Public School Facilities

The proposed development is nonresidential in nature; therefore, there are no impacts to public school facilities. The development will have no impact to the Level of Service (LOS) of public school facilities.

RESOLUTION NO. PZ SDP 20-07

A RESOLUTION OF THE PLANNING AND ZONING BOARD OF COLUMBIA COUNTY, FLORIDA, APPROVING A SITE AND DEVELOPMENT PLAN WITH APPROPRIATE CONDITIONS AND SAFEGUARDS FOR AN AUTOMOTIVE SELF-SERVICE USE LOCATED IN THE COMMERCIAL, HIGHWAY INTERCHANGE (“CHI”) ZONING DISTRICT ON CERTAIN LANDS WITHIN THE UNINCORPORATED AREA OF COLUMBIA COUNTY, FLORIDA; REPEALING RESOLUTIONS IN CONFLICT; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, Ordinance No. 98-1, as amended, entitled Columbia County Land Development Regulations, hereinafter referred to as the Land Development Regulations, empowers the Planning and Zoning Board of Columbia County, Florida, hereinafter referred to as the Planning and Zoning Board, to approve, to approve with conditions, or to deny site and development plans in accordance with the Land Development Regulations;

WHEREAS, an application for a site development plan, as described below, has been filed with the County;

WHEREAS, the Planning and Zoning Board, has determined and found that approval of said site and development plan, as described below, would promote the public health, safety, morals, order, comfort, convenience, appearance, prosperity or general welfare; and

WHEREAS, the Planning and Zoning Board, has studied and considered the items enumerated in Section 14.13 of the Land Development Regulations and based upon said study and consideration has determined and found that:

1. A site and development plan was prepared and submitted to the County in accordance with the provisions of Section 14.13.1 of the Land Development Regulations;
2. Statements on ownership and control of the development and of conditions of ownership or control, use, and permanent maintenance of common open space, common facilities, or common lands to ensure preservation of such lands and facilities for their intended purpose and to ensure that such common facilities will not become a future liability for the Board of County Commissioners are sufficient;
3. Density and/or the intended use of the proposed development with particular attention to its relationship to adjacent and nearby properties and effect on those properties and relationship to the Comprehensive Plan are in accordance with the Comprehensive Plan and Land Development Regulations;
4. Ingress and egress to the development and proposed structures on the development provide for automotive and pedestrian safety, minimization of marginal friction with free movement of traffic on adjacent streets, separation of automotive traffic and pedestrian and other traffic, traffic flow and control, provision of services and servicing of utilities and refuse collection, and access in case of fire, catastrophe, or emergency;
5. Location and relationship of off-street parking and off-street loading facilities to thoroughfares and internal traffic patterns within the proposed development, with particular reference to automotive and pedestrian safety, traffic flow and control, access in case of fire or catastrophe, and screening and landscape are adequate;

6. Proposed screens and buffers sufficiently provide for the preservation of internal and external harmony and compatibility with uses inside and outside the proposed development;
7. Manner of stormwater management will not adversely affect the provisions for stormwater management on adjacent and nearby properties and overall public stormwater management capacities;
8. Provision for sanitary sewers is adequate in relationship to overall sanitary sewer availability and capacities;
9. Utilities, with reference to hook-in locations and availability and capacity for the uses projected are adequate;
10. Recreation facilities and open spaces, with attention to the size, location, and development of the areas as to adequacy, effect on privacy of adjacent and nearby properties and uses within the proposed development, and relationship to community open spaces and recreational facilities are adequate;
11. General amenities and convenience, with particular reference to appearance and general layout of the proposed development will be compatible and harmonious with properties in the general area and will not be in conflict with other development in the area as to cause substantial depreciation of property values; and
12. Said site and development plan conforms to all other standards imposed by the Land Development Regulations.

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING AND ZONING BOARD OF COLUMBIA COUNTY, FLORIDA, THAT:

Section 1. Pursuant to an application, SDP 20 07, an application by Joshua Baxley, P.E. of Dewberry Engineers, Inc., agent for The Kinjac Corporation, owner, for site and development plan approval for a proposed Automotive Self-Service use located in the Commercial, Highway Interchange ("CHI") Zone District in accordance with a site plan dated May 3, 2019, and submitted as part of an application dated July 30, 2020 to be located on property described, as follows:

A PART OF THE E1/2 OF THE NE1/4 OF SECTION 11 AND A PART OF THE W1/2 OF THE NW1/4 OF SECTION 12, ALL IN TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SW CORNER OF THE NE1/4 OF THE NE1/4 OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE RUN IN 1°47'49" WEST ALONG THE WEST LINE OF SAID NE1/4 OF THE NE1/4 A DISTANCE OF 200.03 FEET TO A POINT; THENCE RUN N 58°35'41" EAST A DISTANCE OF 1175.60 FEET TO THE WESTERLY RIGHT OF WAY LINE A DISTANCE OF 430 FEET TO A POINT; THENCE RUN S 57°35'41" WEST A DISTANCE OF 170 FEET ALONG THE NORTHERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL & REFINING COMPANY TO A POINT; THENCE S 37°35'53" EAST A DISTANCE OF 389.53 FEET ALONG THE WESTERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL AND REFINING COMPANY TO A POINT; THENCE RUN S 44°57'11" WEST ALONG THE NORTHERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY #10 A DISTANCE OF 233.30 FEET; THENCE RUN N 32°33'09" WEST A DISTANCE OF 185.30 FEET TO THE SOUTHERLY LINE OF SAID NE1/4 OF THE NE1/4 OF SECTION 11; THENCE RUNS S 87°48'01" WEST ALONG SAID SOUTHERLY LINE A DISTANCE OF 1057.53 FEET TO THE POINT OF BEGINNING.

Containing 15.69-acres, more or less.

Tax Parcel Numbers 11-3s-16-02063-000 and 11-3s-16-02063-001

Section 2. The Planning and Zoning Board, hereby approves the above referenced site and development plan subject to any conditions and safeguards, if any, hereinafter attached in Exhibit "A".

Section 3. A site and development plan made a part of this resolution by reference, shall govern the development of the above described property. Any deviation determined to be a major variation from the site and development plan submitted as part of this application shall be deemed a violation of the Land Development Regulations.

Section 4. The Land Development Regulation Administrator is hereby authorized to issue building permits pursuant to this resolution approving with conditions said site and development plan.

Section 5. The use of land approved by this site plan approval shall be in place, or a valid building permit shall be in force for the commencement of such land use within twelve (12) months of the granting of the site plan approval. If such land use is not in place or if a valid permit for the construction of such land use is not in effect, within twelve (12) months of the approval of the site plan, this resolution granting such site plan approval is thereby revoked and of no force and effect.

Section 6. All resolutions in conflict with this resolution are hereby repealed to the extent of such conflict.

DULY ADOPTED in regular session with a quorum present and voting, by the Planning and Zoning Board, this 27th day of August 2020.

PLANNING AND ZONING BOARD OF
COLUMBIA COUNTY, FLORIDA,

Attest:

Brandon M. Stubbs, Secretary to the
Planning and Zoning Board

Robert F. Jordan, Chairman



Columbia County Gateway to Florida

FOR PLANNING USE ONLY

Application # SPD 2007

Application Fee \$500.00

Receipt No. 751307

Filing Date 7-30-2020

Completeness Date _____

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Busy Bee #7
2. Address of Subject Property: 4772 NW US-41
3. Parcel ID Number(s): 11-3S-16-02063-001(LARGE PARCEL) , 11-3S-16-02063-000 (SMALL PARCEL)
4. Future Land Use Map Designation: A-3, CHI
5. Zoning Designation: CHI Commercial, Highway Interchange
6. Acreage: 15.69 Ac.
7. Existing Use of Property: Vacant
8. Proposed use of Property: Truck Parking and Fueling
9. Type of Development (Check All That Apply):
 - Increase of floor area to an existing structure: Total increase of square footage _____
 - New construction: Total square footage 5,528 SF
 - Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status Owner (title holder) Agent
2. Name of Applicant(s): Joshua Baxley, P.E Title: Senior Project Manager
 Company name (if applicable): Dewberry Engineers, Inc.
 Mailing Address: 101 N. Monroe Street Suite 710
 City: Tallahassee State: FL Zip: 32301
 Telephone: (850) 354-5181 Fax: () Email: jbaxley@dewberry.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

3. If the applicant is agent for the property owner*.
 Property Owner Name (title holder): Johnson & Johnson, Inc.
 Mailing Address: P.O Box 157
 City: Madison State: FL Zip: 32341
 Telephone: (850) 973-2277 Fax: () Email: _____

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

1. Is there any additional contract for the sale of, or options to purchase, the subject property?
If yes, list the names of all parties involved: NA
If yes, is the contract/option contingent or absolute: Contingent Absolute
2. Has a previous application been made on all or part of the subject property:
Future Land Use Map Amendment: Yes _____ No _____
Future Land Use Map Amendment Application No. CPA _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning): Yes _____ No _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. Z _____
Variance: Yes _____ No _____
Variance Application No. V _____
Special Exception: Yes _____ No _____
Special Exception Application No. SE _____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.
2. Site Plan – Including, but not limited to the following:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Present zoning for subject site.
 - c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
 - d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
 - e. Area and dimensions of site (Survey).
 - f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - g. Access to utilities and points of utility hook-up.
 - h. Location and dimensions of all existing and proposed parking areas and loading areas.
 - i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
 - j. Location and size of any lakes, ponds, canals, or other waters and waterways.
 - k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
 - l. Location of trash receptacles.
 - m. For multiple-family, hotel, motel, and mobile home park site plans:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Percent of lot covered by buildings.

- vi. Floor area of dwelling units.
 - vii. Number of proposed parking spaces.
 - viii. Street layout.
 - ix. Layout of mobile home stands (for mobile home parks only).
3. Stormwater Management Plan—including the following:
 - a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
 - b. Proposed finished elevation of each building site and first floor level.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water management district surface water management permit.
 4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (“ISO”) and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.
 5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.
 6. Comprehensive Plan Consistency Analysis: An analysis of the application’s consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).
 7. Legal Description with Tax Parcel Number (In Word Format).
 8. Proof of Ownership (i.e. deed).
 9. Agent Authorization Form (signed and notarized).
 10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector’s Office).
 11. Fee. The application fee for a Site and Development Plan Application is \$500. No application shall be accepted or processed until the required application fee has been paid.

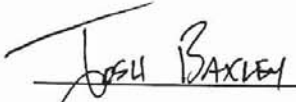
NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See Columbia County submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORE THE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES, OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.



Applicant/Agent Name (Type or Print)



Applicant/Agent Signature



Date

May 7, 2019

Brandon Stubbs, County Planner
City of Lake City
P.O Box 1529
Lake City, FL 32056-1529

RE: Lake City – Busy Bee No.7 Service Expansion

Dear Mr. Stubbs,

For the Site Plan Application of the above referenced project we are submitting the following:

- 10 Sets of plans from Dewberry (3 sets signed & sealed) for site work showing additional parking area, fueling stations, and stormwater management facilities.

Also, addressed are the 11 items in the application labeled, SUBMITTAL REQUIREMENTS

1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.

See attached Vicinity Map.

2. Site Plan – Including, but not limited to the following:

a. Name, location, owner, and designer of the proposed development.

Johnson & Johnson, Inc. or KINJAC, is the owner and address is as appear in the application information.

b. Present zoning for subject site.

Commercial Highway Interchange (CHI)

c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.

See the attached plans for ingress and egress information for the proposed site. Additionally, no surrounding properties are affected by the proposed improvements.

d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.

Information is provided on each plan sheet.

e. Area and dimensions of site (Survey).

See attached Survey.

f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.

See attached Survey.

g. Access to utilities and points of utility hook-up.

See Plans.

h. Location and dimensions of all existing and proposed parking areas and loading areas.

See Plans.

i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).

See landscape plan.

j. Location and size of any lakes, ponds, canals, or other waters and waterways.

See Plans.

k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.

See Plans.

l. Location of trash receptacles.

See attached plans.

m. For multiple-family, hotel, motel, and mobile home park site plans:

N/A

3. Stormwater Management Plan—including the following:

- a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
See attached Survey.
- b. Proposed finished elevation of each building site and first floor level.
See Plans.
- c. Existing and proposed stormwater management facilities with size and grades.
See Plans.
- d. Proposed orderly disposal of surface water runoff.
See Stormwater Management Plan.
- e. Centerline elevations along adjacent streets.
See Plans.
- f. Water management district surface water management permit.
Permit has been applied for.

4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (“ISO”) and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.

***See attached Swept Path Plan.
Chemical Fire Suppressive System to be installed by contractor.***

5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.

Please see the attached Concurrency worksheet.

6. Comprehensive Plan Consistency Analysis: An analysis of the application’s consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).

See attached Comprehensive Plan Consistency Analysis.

7. Legal Description with Tax Parcel Number (In Word Format).

Please see attached Legal Description.

8. Proof of Ownership (i.e. deed).

Please see the attached deed.

Mr. Stubbs
Busy Bee No.7 Service Area Expansion
Dewberry PN 50093979
April 11, 2019

9. Agent Authorization Form (signed and notarized).

Please see the attached Agent Authorization Form.

10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector's Office).

Please see the attached Tax Receipts from Tax Collector.

If you have any questions or comments, please give me a call at 850.354.5187. We look forward to the opportunity of working with you.

Sincerely,

DEWBERRY

Josh Baxley, P.E.
Sr. Project Manager

Name, Title, and Date

Attachment 1

Vicinity Map



LEGAL DESCRIPTION

PARCEL ID: 11-3S-16-02063-001

A PART OF THE E $\frac{1}{2}$ OF THE NE $\frac{1}{4}$ OF SECTION 11 AND A PART OF THE W $\frac{1}{2}$ OF THE NW $\frac{1}{4}$ OF SECTION 12, ALL IN TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SW CORNER OF THE NE $\frac{1}{4}$ OF THE NE $\frac{1}{4}$ OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE RUN IN 1°47'49" WEST ALONG THE WEST LINE OF SAID NE $\frac{1}{4}$ OF THE NE $\frac{1}{4}$ A DISTANCE OF 200.03 FEET TO A POINT; THENCE RUN N 58°35'41" EAST A DISTANCE OF 1175.60 FEET TO THE WESTERLY RIGHT OF WAY LINE A DISTANCE OF 430 FEET TO A POINT; THENCE RUN S 57°35'41" WEST A DISTANCE OF 170 FEET ALONG THE NORTHERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL & REFINING COMPANY TO A POINT; THENCE S 37°35'53" EAST A DISTANCE OF 389.53 FEET ALONG THE WESTERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL AND REFINING COMPANY TO A POINT; THENCE RUN S 44°57'11" WEST ALONG THE NORTHERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY #10 A DISTANCE OF 233.30 FEET; THENCE RUN N 32°33'09" WEST A DISTANCE OF 185.30 FEET TO THE SOUTHERLY LINE OF SAID NE $\frac{1}{4}$ OF THE NE $\frac{1}{4}$ OF SECTION 11; THENCE RUNS S 87°48'01" WEST ALONG SAID SOUTHERLY LINE A DISTANCE OF 1057.53 FEET TO THE POINT OF BEGINNING. THIS DESCRIBED PROPERTY IS SUBJECT TO ALL UTILITY EASEMENTS.

Dewberry
 Dewberry Engineers Inc.
 101 N. MONROE STREET
 SUITE 710
 TALLAHASSEE, FL 32301
 850.354.5181
 CA# 8794

TITLE	DATE	REVISION	SHEET NO.
VICINITY MAP	4-19	NA	S1
PROJECT	PROJ. NO.	DRAWING NO.	
BUSY BEE NO. 7 SERVICE AREA EXPANSION	50093979	NA	

Attachment 2

Site Plan



Know what's below.
Call before you dig.

sunshine state



CONSTRUCTION PLANS FOR BUSY BEE NO. 7 SERVICE AREA EXPANSION

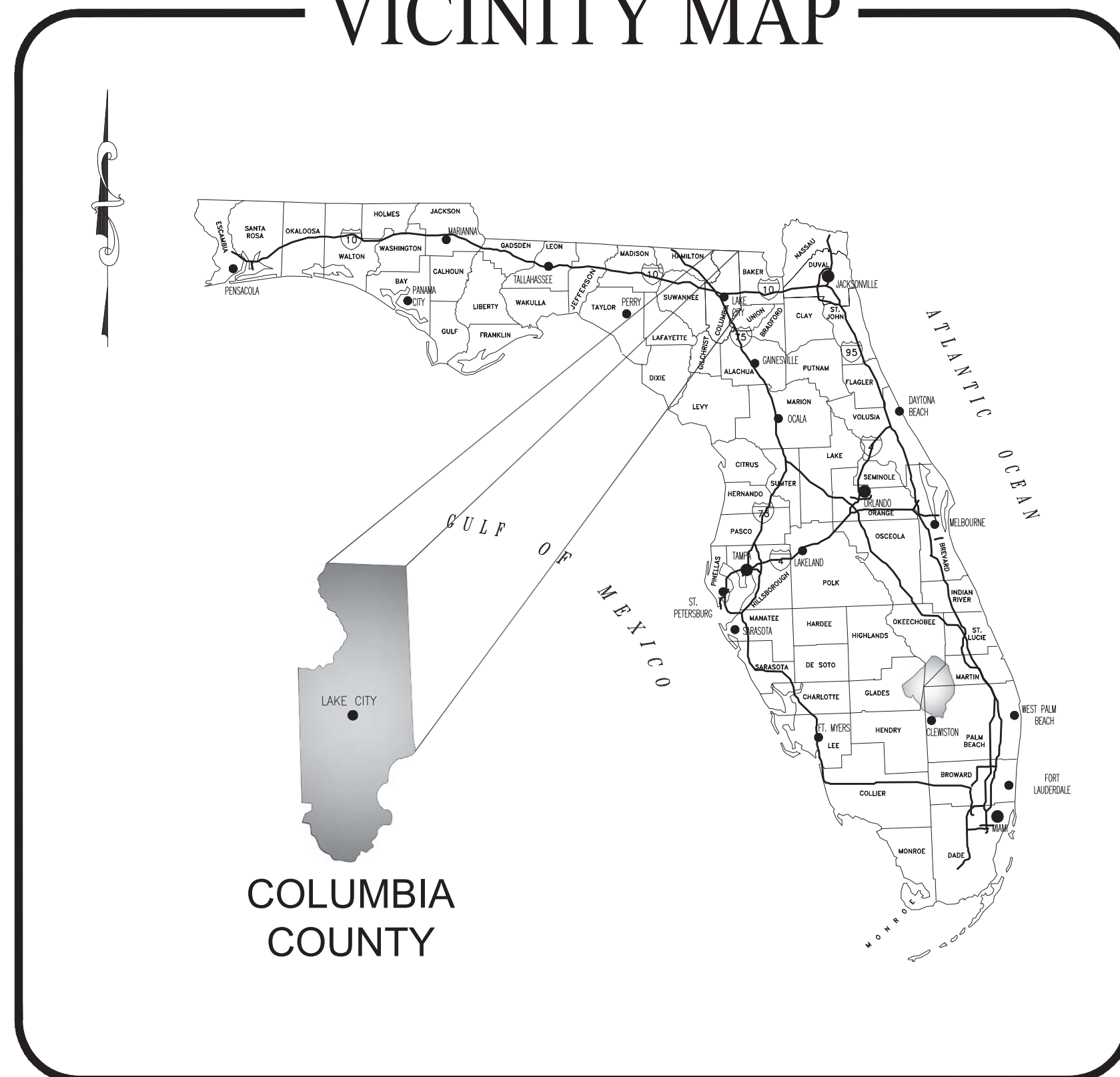
PREPARED FOR:

JOHNSON & JOHNSON, INC. COLUMBIA COUNTY, FLORIDA



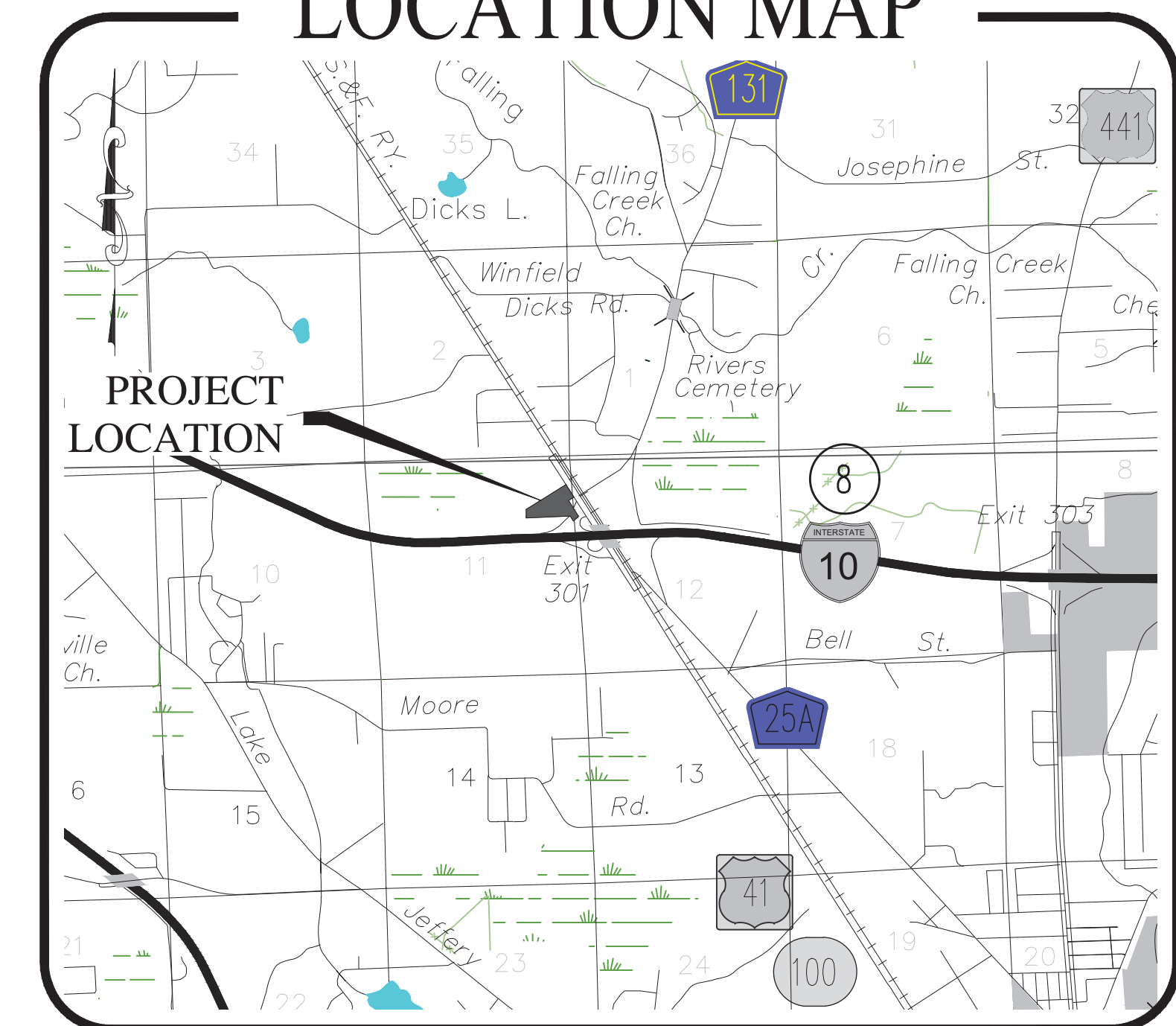
PRELIMINARY DOCUMENTS
NOT FOR CONSTRUCTION

VICINITY MAP



SHEET NO.	SHEET DESCRIPTION:
C1	COVER SHEET
C2	GENERAL NOTES
C3	STORMWATER POLLUTION PREVENTION PLAN
C4	DEMOLITION AND EROSION CONTROL PLAN
C5	SITE LAYOUT, SIGNING AND PAVING PLAN
C6	GRADING PLAN
C7	UTILITY PLAN
C8	FDOT DRIVEWAY CONNECTION PLAN VIEW
C9	DRIVEWAY CONNECTION PLAN AND PROFILES
C10	DRIVEWAY CONNECTION CROSS SECTIONS
C11	TURN LANE DEMOLITION & EROSION CONTROL
C12	TURN LANE PLAN VIEW
C13-C14	CROSS SECTIONS
C15	BASIN MAP
C16	AUTO TURN ANALYSIS
D1	MISCELLANEOUS DETAILS
D2	SITE DETAILS
L1	LANDSCAPE PLAN

LOCATION MAP



ERRORS AND OMISSIONS, IF ANY, IN THESE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

GENERAL CONTRACTOR TO THOROUGHLY INSPECT EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS SHALL BE NOTED AT ONCE AND CALLED TO THE ENGINEER'S ATTENTION 48 HOURS PRIOR TO SUBMITTING BIDS.

ALL CORRESPONDENCE IN REGARDS TO THESE CONSTRUCTION / BID DOCUMENTS SHALL BE DIRECTED TO JOSHUA BAXLEY, P.E. AT DEWBERRY ENGINEERS, INC. 654 SOUTHEAST BAYA DR. LAKE CITY, FLORIDA 32025

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS LATEST EDITION, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, AS AMENDED BY CONTRACT DOCUMENTS. For Design Standards Modifications click on "Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>



JOSHUA BRYAN BAXLEY, P.E.
NO. 67529

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA BRYAN BAXLEY, PE. ON THE DATE NOTED ON THE ELECTRONIC SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

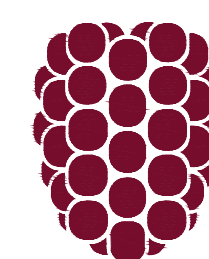
DATE:

OWNER, DEVELOPER, AGENT

OWNER/DEVELOPER: JOHNSON & JOHNSON, INC.
P.O. BOX 157
MADISON, FLORIDA 32341
(850) 973-2277

ENGINEER/AGENT: DEWBERRY ENGINEERS, INC.
101 N. MONROE ST., SUITE 710
TALLAHASSEE, FL 32301
PHONE 850.523.0062

SITE ADDRESS: 4772 NW US HIGHWAY 41
LAKE CITY, FL 32055



PREPARED BY:
Dewberry[®]

101 N. MONROE ST., SUITE 710, TALLAHASSEE, FL 32301
850.523.0062

PROJECT NUMBER - 50093979

MAY 03, 2019

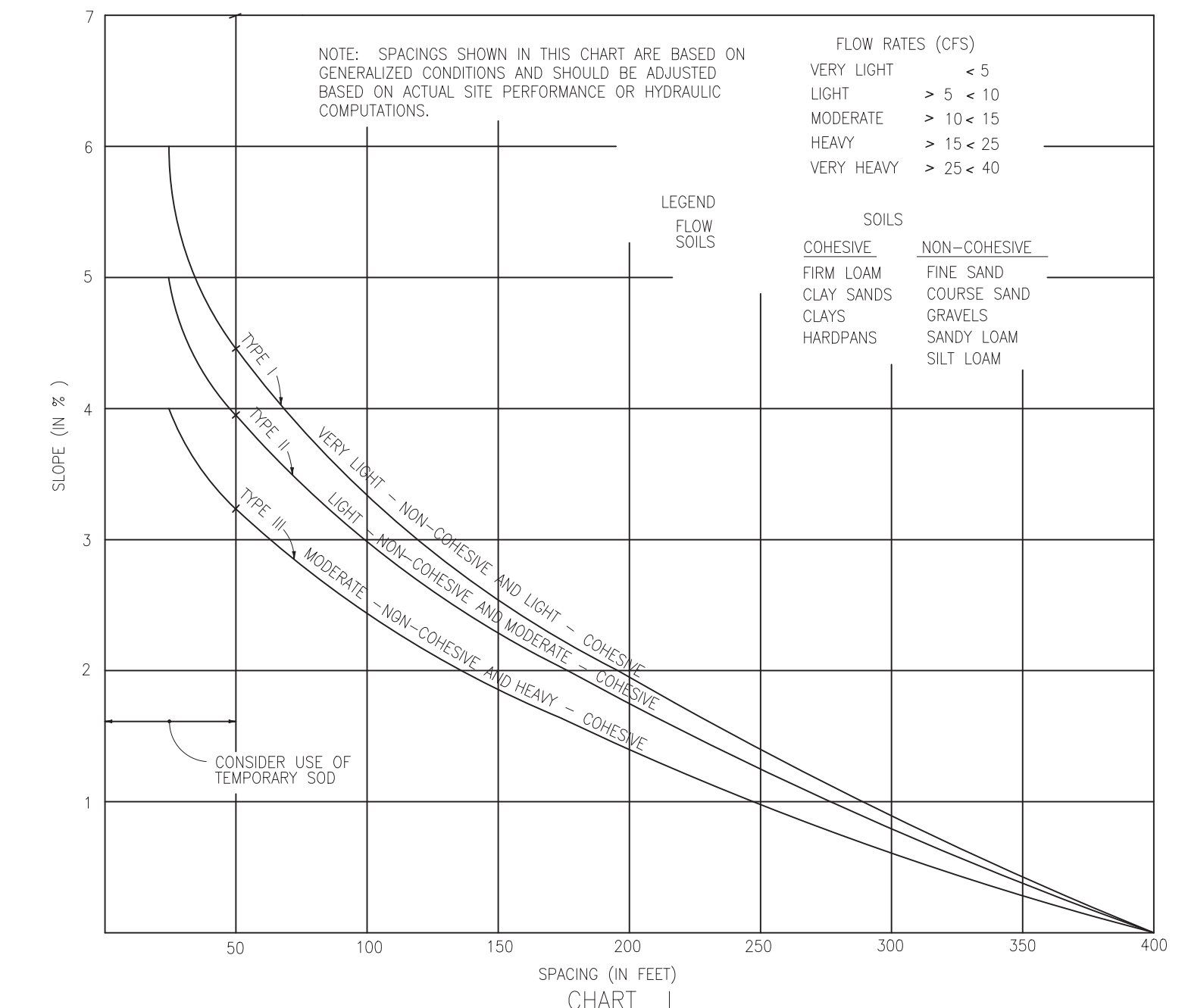
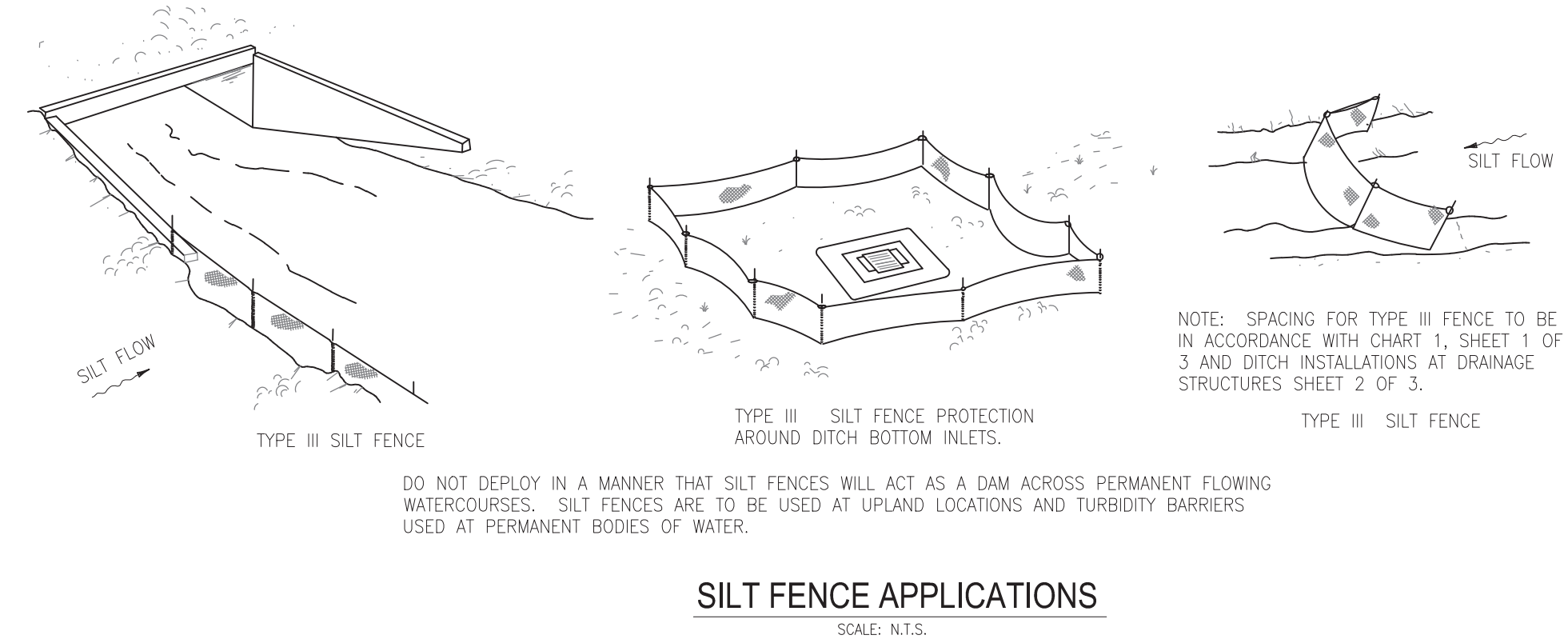
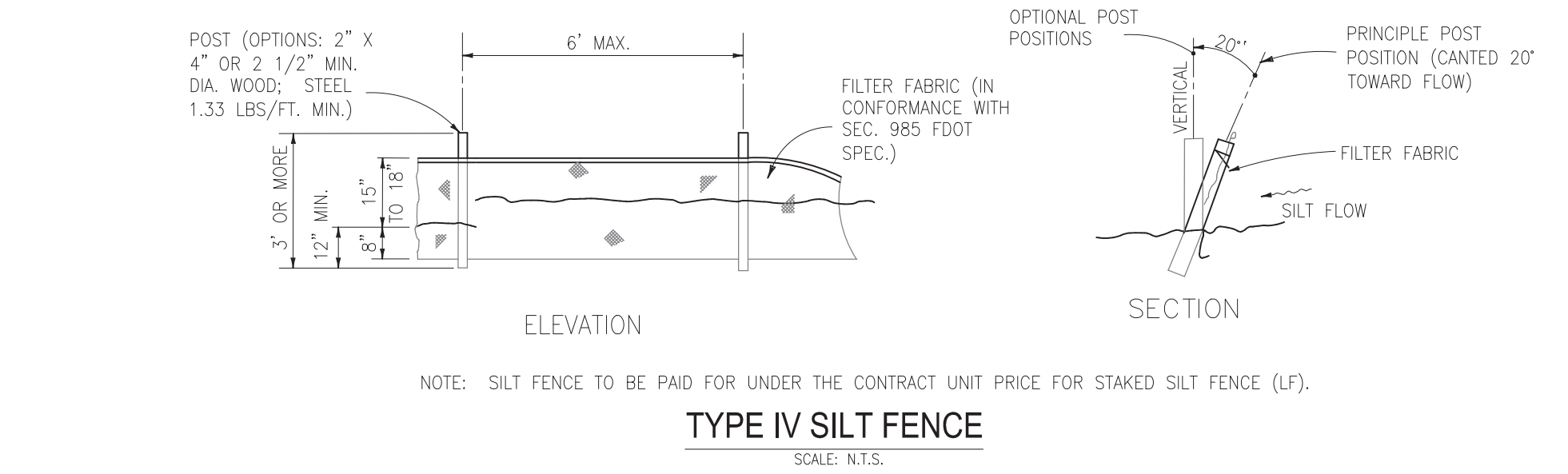
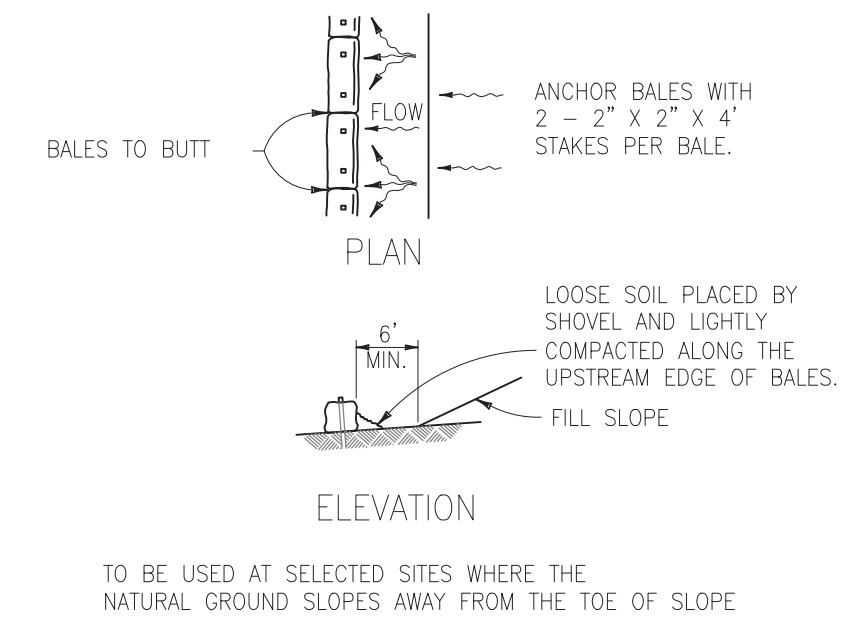
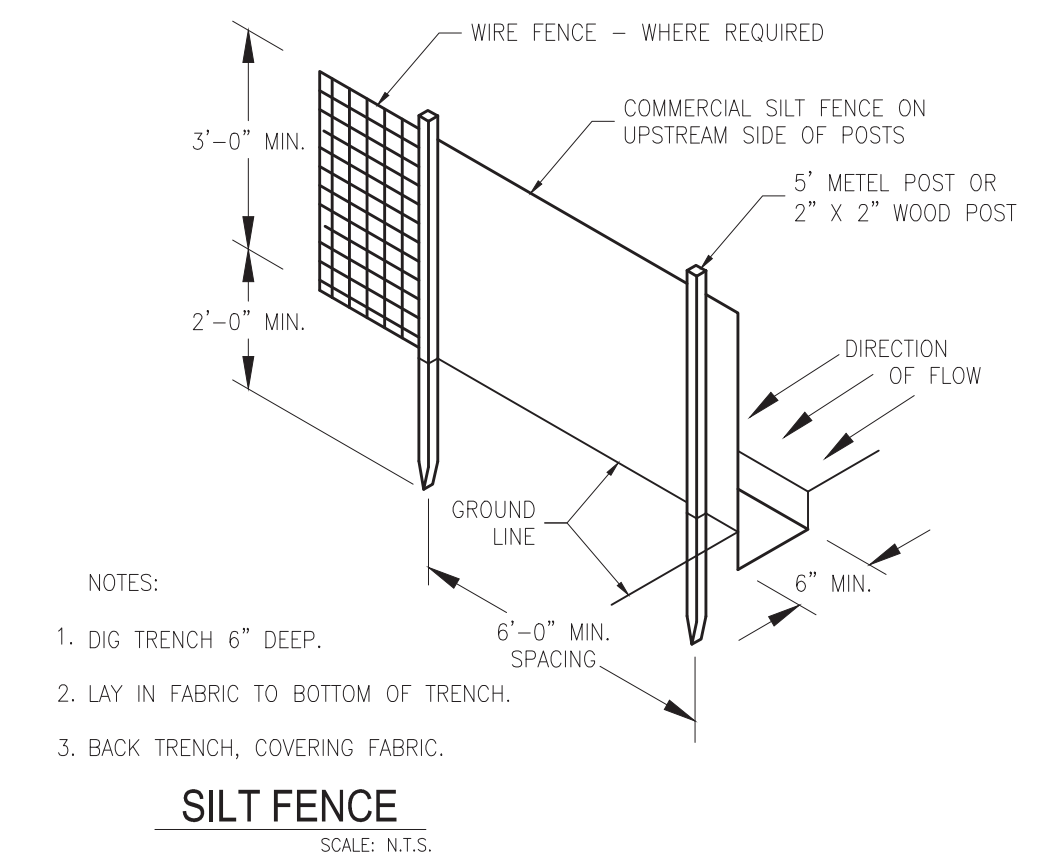
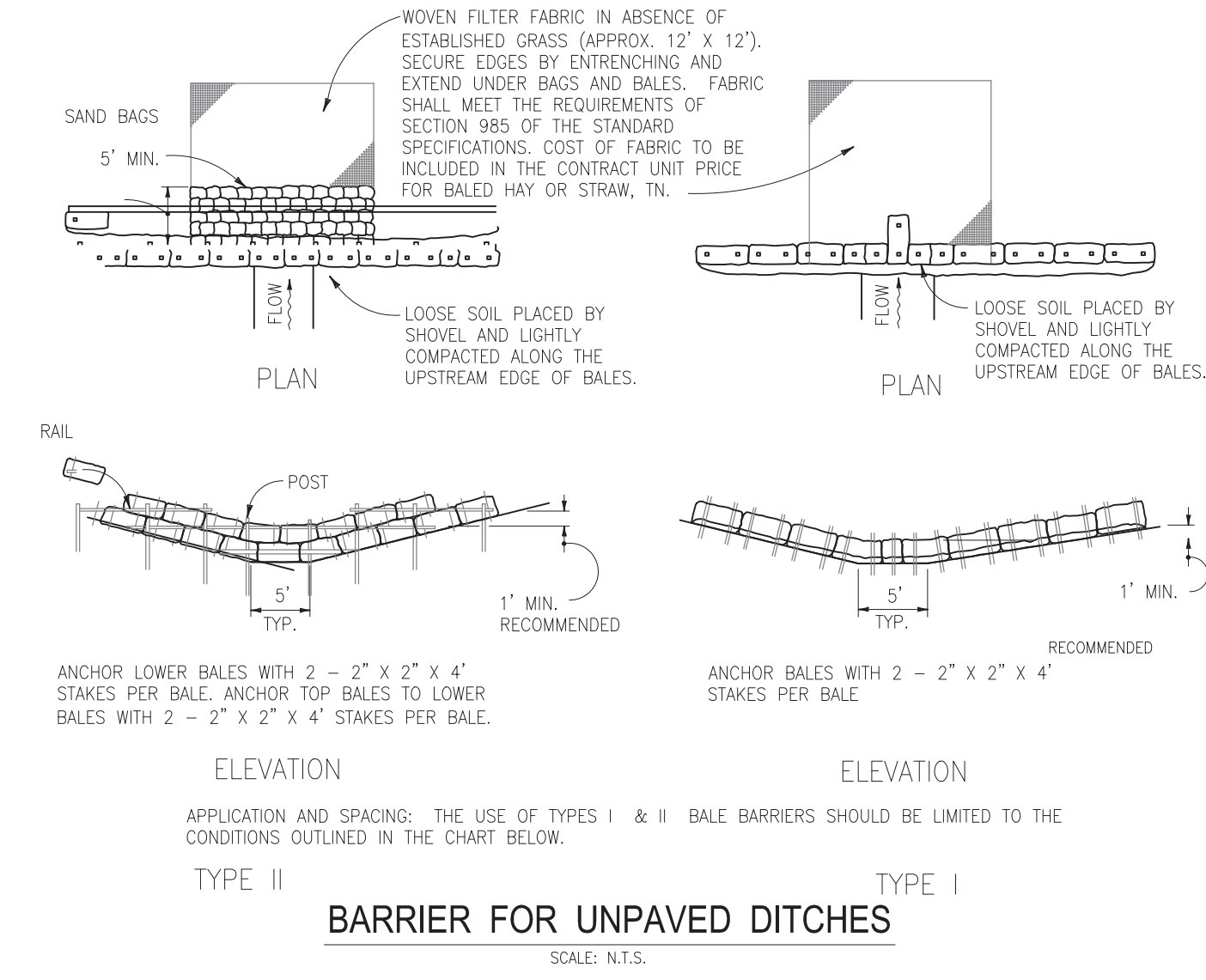
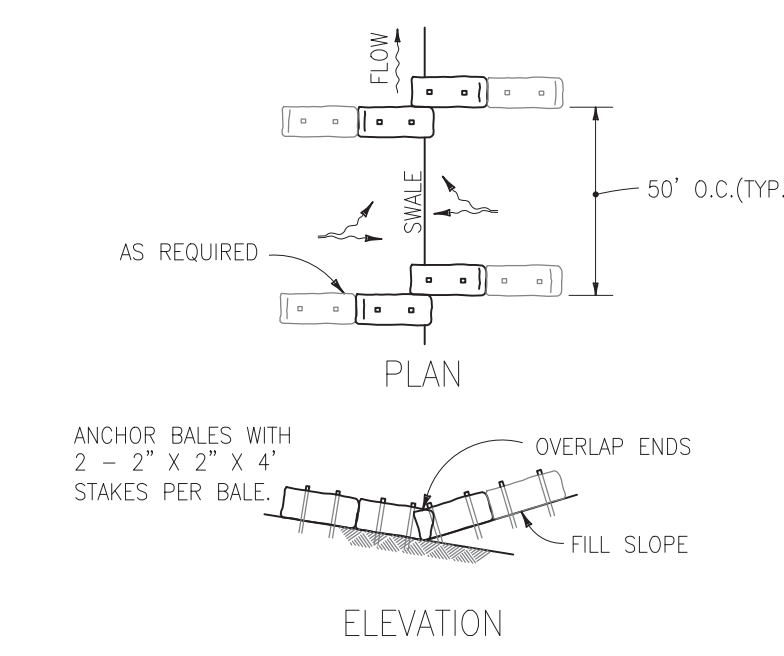
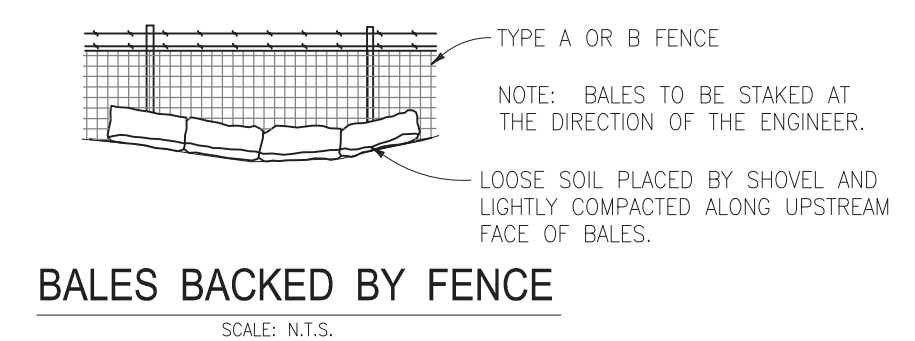
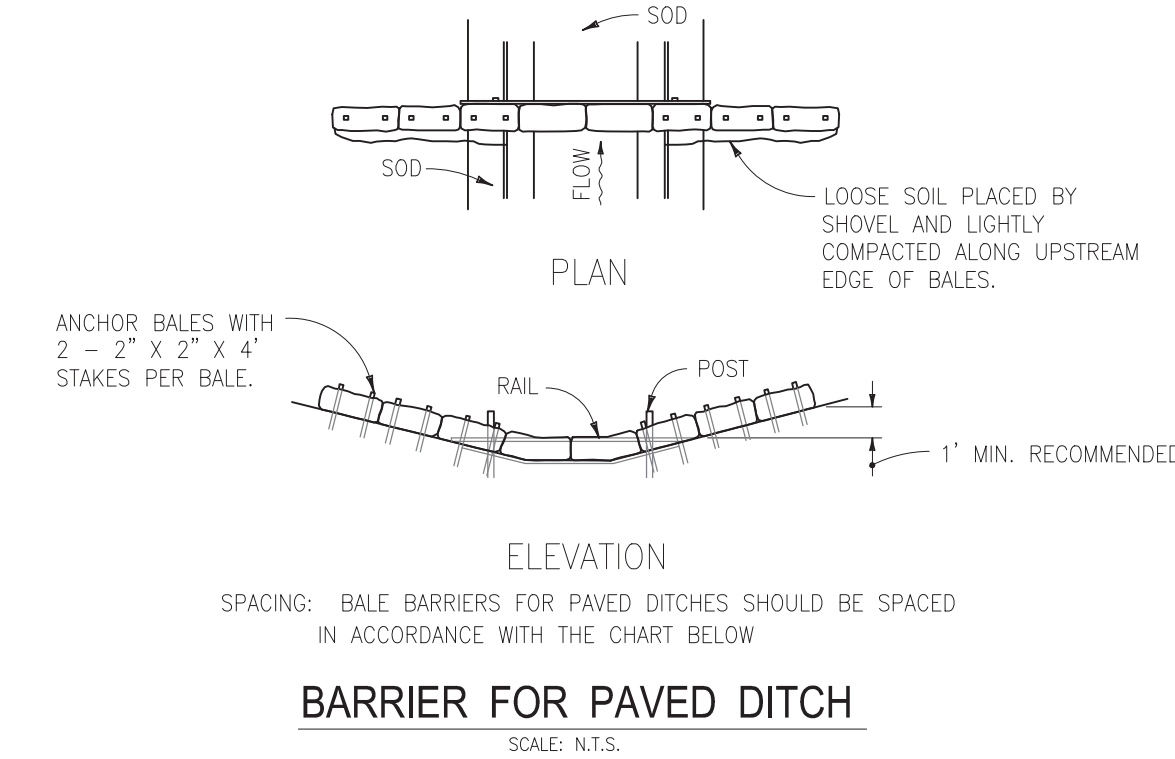
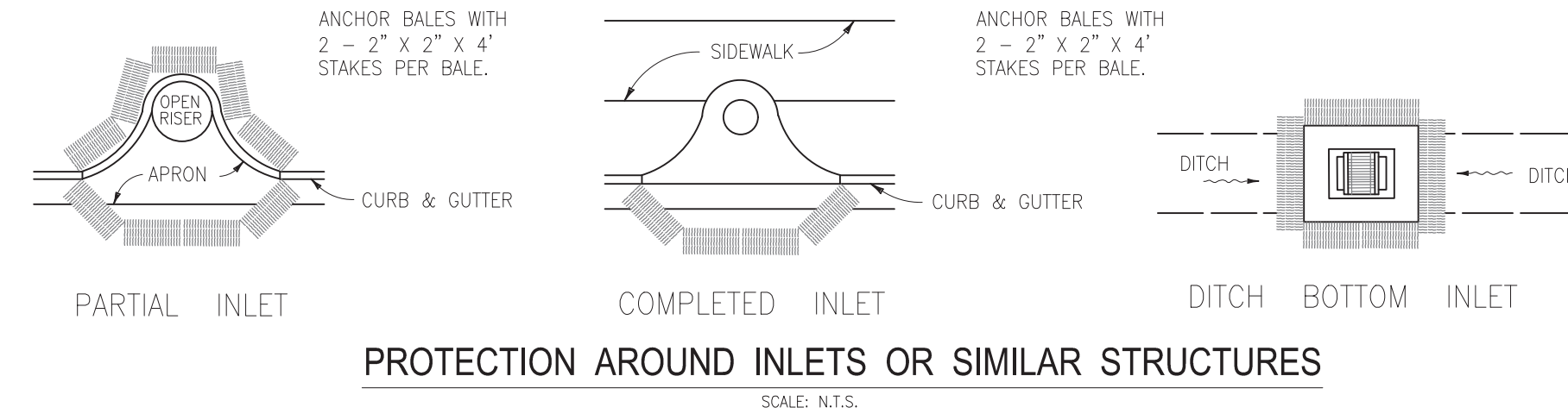
STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

1. SITE DESCRIPTION:
- A. CONSTRUCTION ACTIVITY: INSTALLATION OF GAS/DIESEL PUMPS, CAR/TRUCK PARKING, ASPHALT PAVEMENT AND STORMWATER MANAGEMENT FACILITY.
PROJECT LIMITS: SEE SHEET C4 AND C5.
- MAJOR SOIL DISTURBING ACTIVITIES: INSTALLATION OF GAS/DIESEL PUMPS, CAR/TRUCK PARKING, ASPHALT PAVEMENT AND STORMWATER MANAGEMENT FACILITY.
- B. TOTAL PROJECT AREA: 116,041 S.F. OR 2.66 AC
TOTAL SOIL AREA TO BE DISTURBED: 85,449 SF OR 1.96 AC
- C. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: BEFORE: 0.2, DURING: 0.2, AFTER: 0.73
(2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: SEE GEOTECHNICAL REPORT
(3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR OUTFALL: 2.66 ACRES
D. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS:
E. (1) NAME OF RECEIVING WATERS: FDOT RIGHT OF WAY DITCH
(2) WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED.

2. CONTROLS:
- NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SILT FENCE AND TURBIDITY BARRIERS WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SILT FENCE SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS. EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

- A. EROSION AND SEDIMENT CONTROLS:
- (1) STABILIZATION PRACTICES:
- TEMPORARY SODDING
 - X TEMPORARY GRASSING
 - X PERMANENT PLANTING, SODDING, OR SEEDING
 - TEMPORARY MULCHING
 - ARTIFICIAL COVERING
 - BUFFER ZONES
 - X PRESERVATION OF NATURAL RESOURCES
- (2) STRUCTURAL PRACTICES:
- SAND BAGGING
 - X SILT FENCES
 - X HAY BALES
 - BERMS
 - DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
 - PIPE SLOPE DRAINS
 - X FLUMES
 - X ROCK BEDDING AT CONSTRUCTION EXIT
 - TIMBER BEDDING AT CONSTRUCTION EXIT
 - DITCH LINER
- SEDIMENT TRAPS
 - SEDIMENT BASINS
 - STORM INLET SEDIMENT TRAP (ROCK BAGS)
 - STONE OUTLET STRUCTURES
 - X CURBS AND GUTTERS
 - X STORM SEWERS
 - VELOCITY CONTROL DEVICES
 - TURBIDITY BARRIER
 - X RIP RAP

- B. DESCRIPTION OF STORMWATER MANAGEMENT: ONSITE DRY POND
- C. OTHER CONTROLS:
- (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
- (2) OFFSITE VEHICLE TRACKING:
- HAUL ROADS DAMPENED FOR DUST CONTROL
 - X LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
 - X EXCESS DIRT ON ROAD REMOVED DAILY
 - X STABILIZED CONSTRUCTION ENTRANCE
- (3) SANITARY WASTE: N/A
- (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
- (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): TO BE USED DURING DEWATERING PROPER BMPs
- D. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: FDOT CONSTRUCTION IN RIGHT OF WAY PERMIT, COLUMBIA COUNTY DEVELOPMENT ORDER, AND FDEP/SRWD ENVIRONMENTAL RESOURCE PERMIT
3. MAINTENANCE:
- ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
4. INSPECTION:
- ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER ONE HALF INCH (0.50") OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
5. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE COUNTY PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.
6. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE COUNTY MUNICIPAL CODES "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE," WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.
7. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT AS REQUIRED.



Dewberry Engineers Inc.
101 N. Monroe St.
Suite 710
Tallahassee, FL 32301
850.523.0065

BUSY BEE #7

SERVICE AREA EXPANSION
JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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JOSHUA BRYAN BAXLEY, P.E. 67529
COA# 8794

PRELIMINARY DOCUMENTS
NOT FOR CONSTRUCTION

SCALE
NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JAL
APPROVED BY: JBB
CHECKED BY: AOA
DATE: MAY 03, 2019

TITLE
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO. 50093979

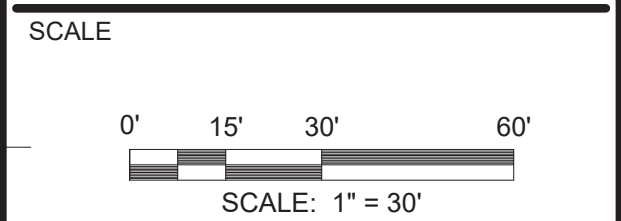
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SHEET NO.

P:\50093979 Busy Bee #7 Svc Area Expansion\Civil3d\Folder\Production\50093979 Cvr_Details.dwg, 4/3/2019 8:36:16 AM, FDOTPDF.p3

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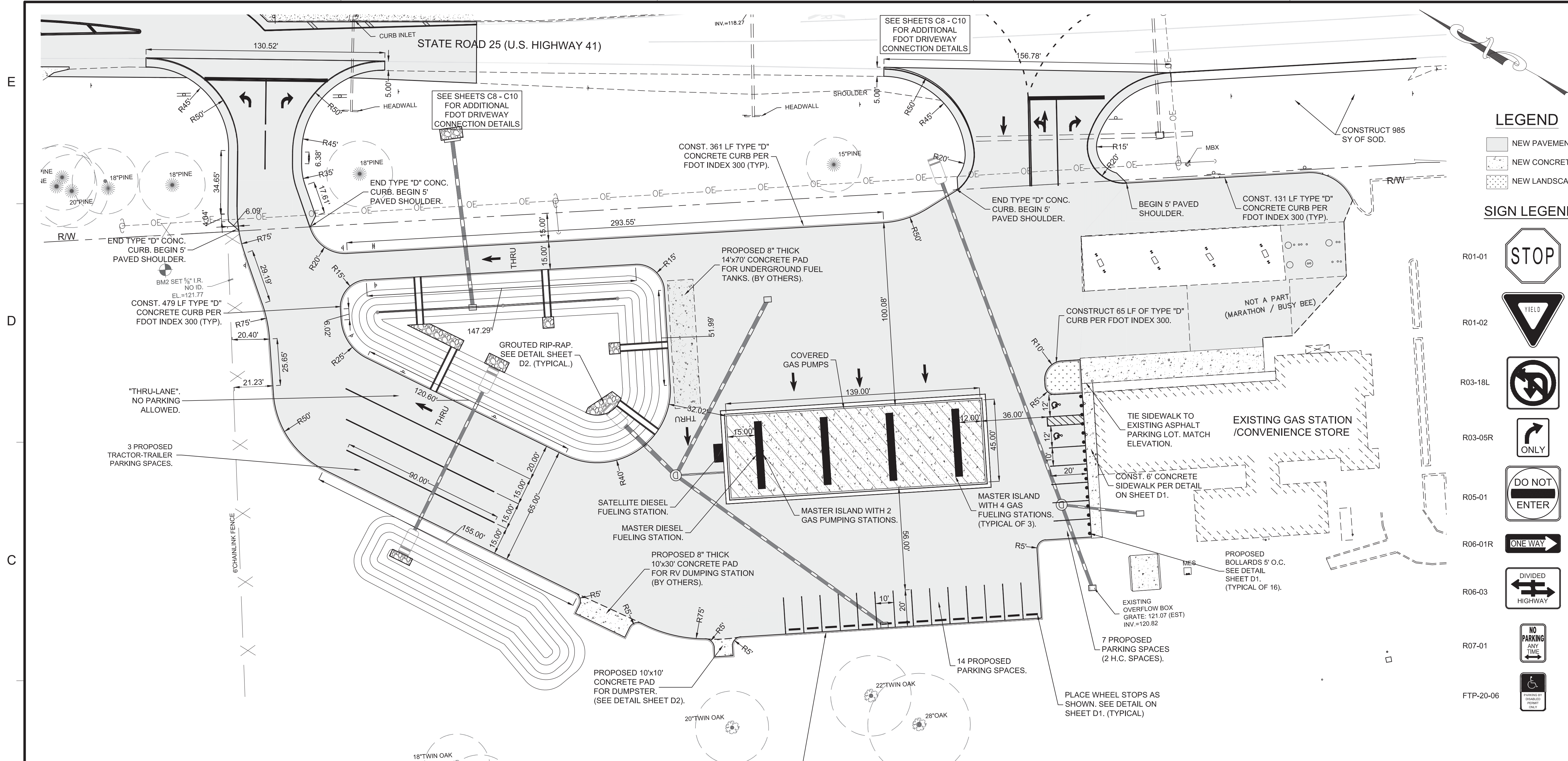
DRAWN BY _____ JAL
APPROVED BY _____ JBB
CHECKED BY _____ AOA
DATE _____ MAY 03, 2019

TITLE
**SITE LAYOUT,
SIGNING AND
PAVING PLAN**

PROJECT NO. 50093979

C5

SHEET NO.



LEGEND

- NEW PAVEMENT
- NEW CONCRETE
- NEW LANDSCAPING

SIGN LEGEND

- R01-01 STOP
- R01-02 YIELD
- R03-18L NO LEFT TURN
- R03-05R RIGHT TURN ONLY
- R05-01 DO NOT ENTER
- R06-01R ONE WAY
- R06-03 DIVIDED HIGHWAY
- R07-01 NO PARKING ANY TIME
- FTP-20-06 PARKING FOR DISABLED PEOPLE ONLY

SITE DATA

General Information

Property Tax ID #s): 11-35-16-02063-001 (LARGE PARCEL)
11-35-16-02063-000 (SMALL PARCEL)
Site Address: 4772 NW US HIGHWAY 41
Zoning: CHI Commercial, Highway Interchange
Overlay / Transect (if any):
Site Density: N/A
Setbacks:
Front: 20 FT
Rear: 15 FT
Side: 5 FT
Corner: 5 FT
Building Maximum Height (FT): 70 FT
Existing Use(s): VACANT
Proposed Use(s): TRUCK PARKING AND FUELING

Area Data

Category	Area (SF)	%
Total Site Area (both parcels)	680,363.64	15.62
Existing Impervious Areas	62,536.00	9.19 %
Building Footprint	9,840.00	1.45 %
Existing Asphalt	37,886.00	5.57 %
Existing Conc.	14,806.00	2.18 %
Existing Pervious Area	617,827.64	90.81 %
Additional Construction Areas	116,063.00	17.14 %
Proposed Asphalt	84,599.00	12.43 %
Proposed Concrete	12,940.00	1.90 %
Proposed Stormwater Management Facility	19,064.00	2.80 %
Proposed Building		0.00 %
Proposed Pervious Area (Both Parcels)	501,224.64	73.67 %

Utility Providers

Possible Water: On-site Well
Natural Gas: None
Sanitary: On-site Sewer
Electric: Suwannee Valley Electric

Parking

Category	Count
Existing Spaces (Per Development)	59 Reg. & 4 ADA
Proposed parking	19 Reg. & 2 ADA
Proposed truck parking	3
Total Provided	78 Reg., 6 ADA, 3 Truck

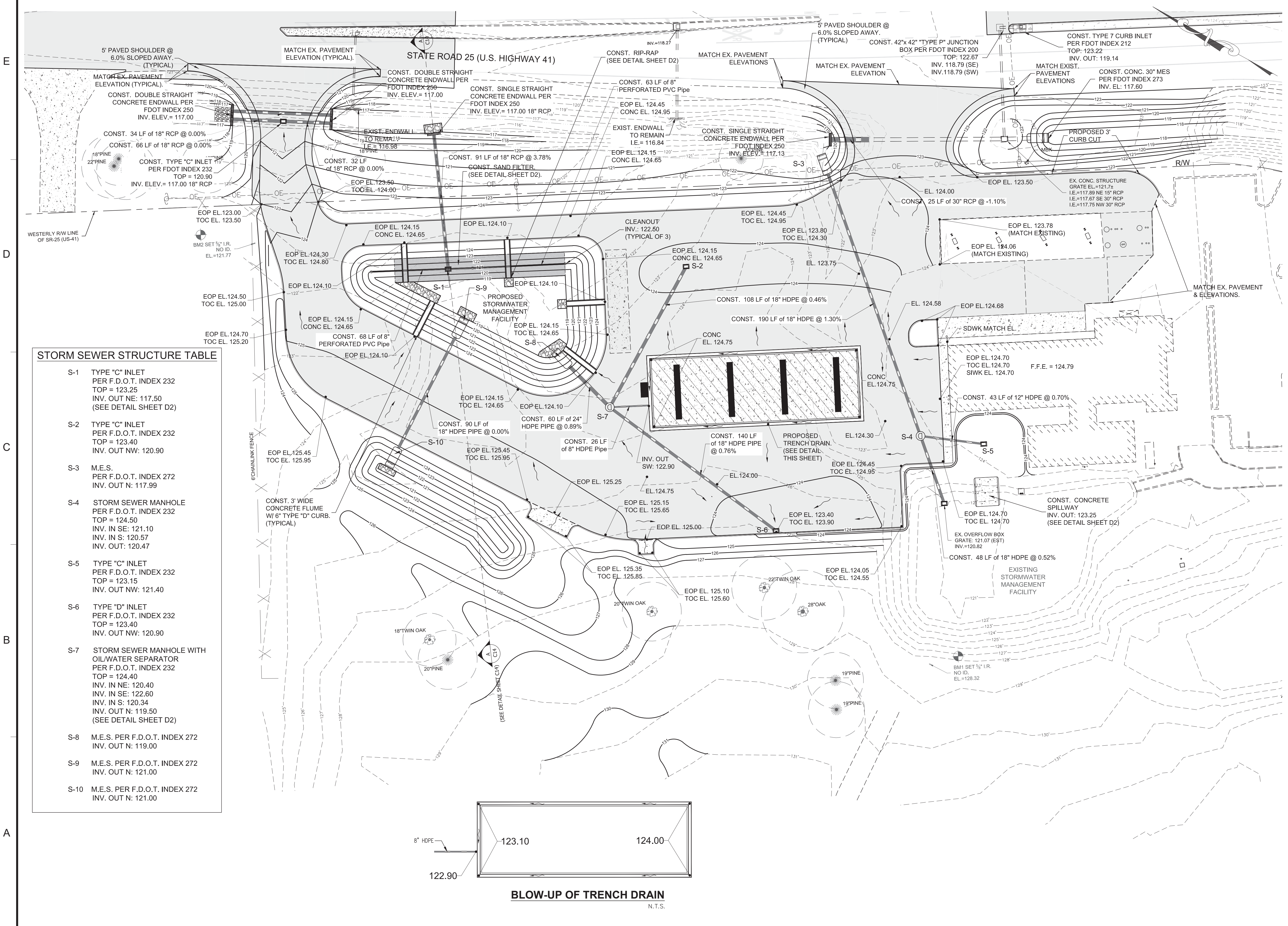
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Building Maximum Height (FT): 70 FT
Existing Use(s): VACANT
Proposed Use(s): TRUCK PARKING AND FUELING

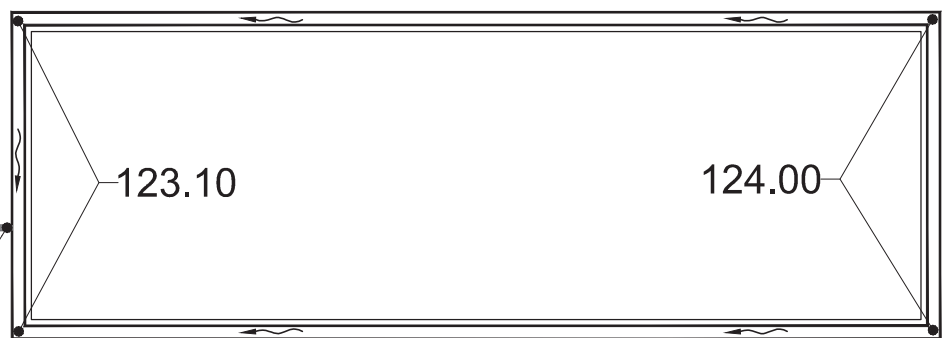
NOTE:
ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

P:\50093979 Busy Bee #7 Svc Area Expansion\Civil\3d\Folder_Production\50093979 Design rev 4-25-19.dwg, 5/17/2019 11:42:09 AM, FOOTDFE.p3



STORM SEWER STRUCTURE TABLE

S-1	TYPE "C" INLET PER F.D.O.T. INDEX 232 TOP = 123.25 INV. OUT NE: 117.50 (SEE DETAIL SHEET D2)
S-2	TYPE "C" INLET PER F.D.O.T. INDEX 232 TOP = 123.40 INV. OUT NW: 120.90
S-3	M.E.S. PER F.D.O.T. INDEX 272 INV. OUT N: 117.99
S-4	STORM SEWER MANHOLE PER F.D.O.T. INDEX 232 TOP = 124.50 INV. IN SE: 121.10 INV. IN S: 120.57 INV. OUT: 120.47
S-5	TYPE "C" INLET PER F.D.O.T. INDEX 232 TOP = 123.15 INV. OUT NW: 121.40
S-6	TYPE "D" INLET PER F.D.O.T. INDEX 232 TOP = 123.40 INV. OUT NW: 120.90
S-7	STORM SEWER MANHOLE WITH OIL/WATER SEPARATOR PER F.D.O.T. INDEX 232 TOP = 124.40 INV. IN NE: 120.40 INV. IN SE: 122.60 INV. IN S: 120.34 INV. OUT N: 119.50 (SEE DETAIL SHEET D2)
S-8	M.E.S. PER F.D.O.T. INDEX 272 INV. OUT N: 119.00
S-9	M.E.S. PER F.D.O.T. INDEX 272 INV. OUT N: 121.00
S-10	M.E.S. PER F.D.O.T. INDEX 272 INV. OUT N: 121.00



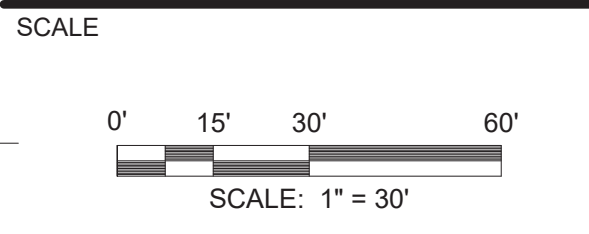
BLOW-UP OF TRENCH DRAIN
N.T.S.

BUSY BEE #7

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TITLE

GRADING PLAN

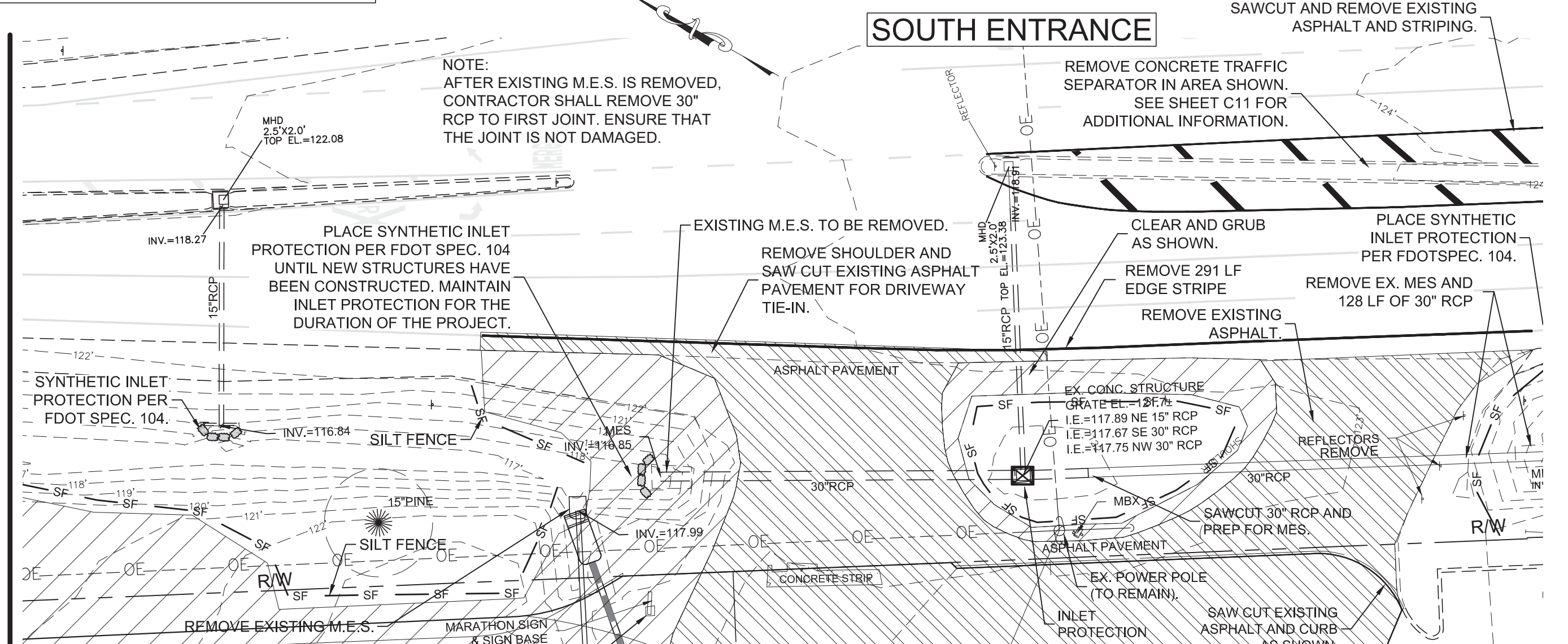
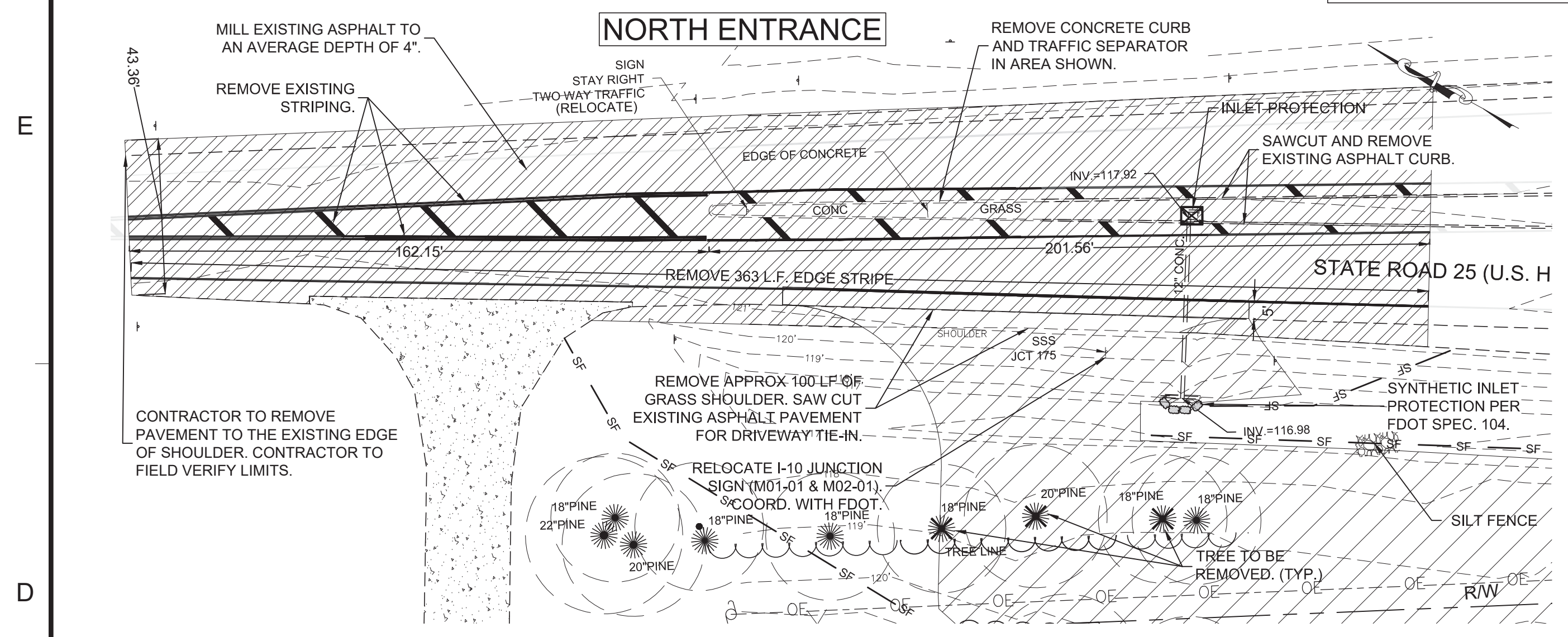
PROJECT NO. 50093979

C6

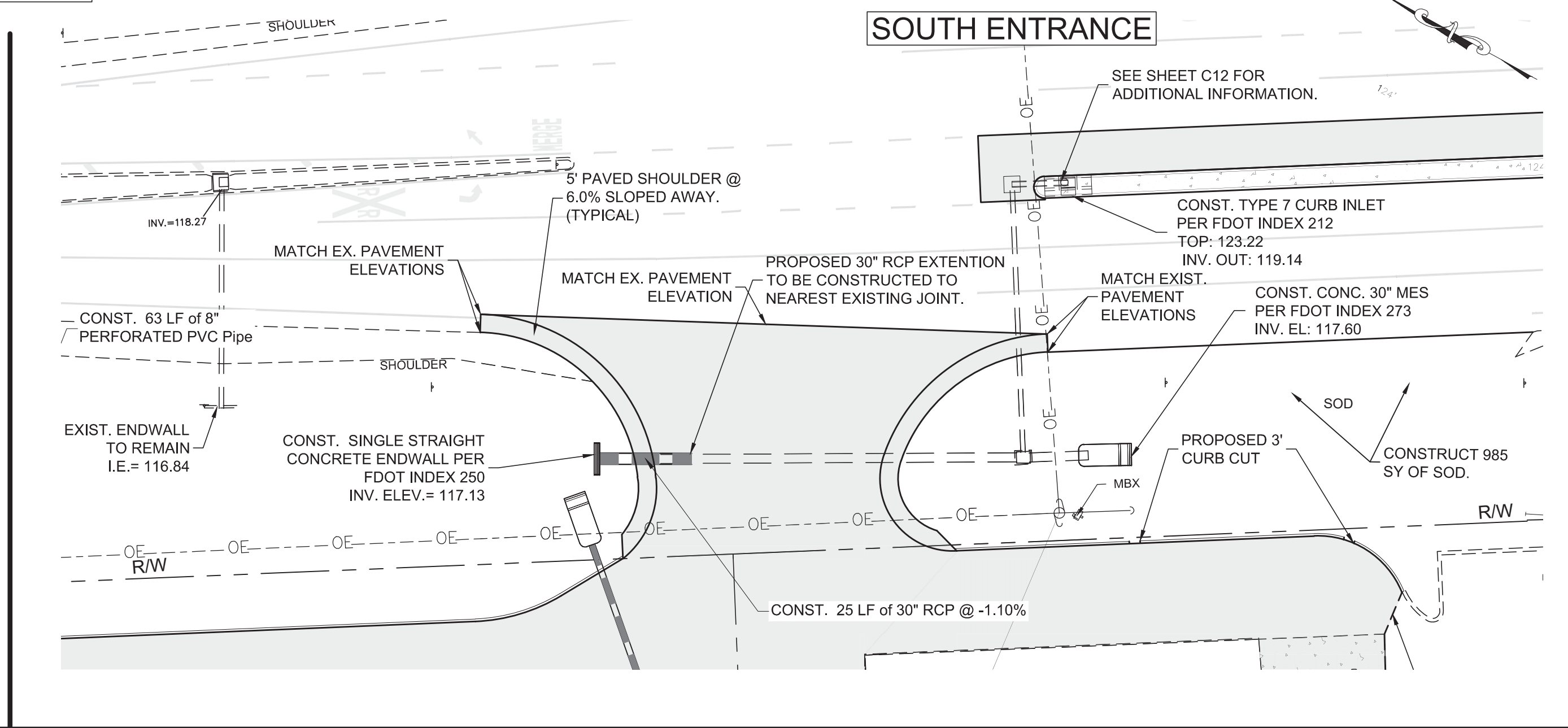
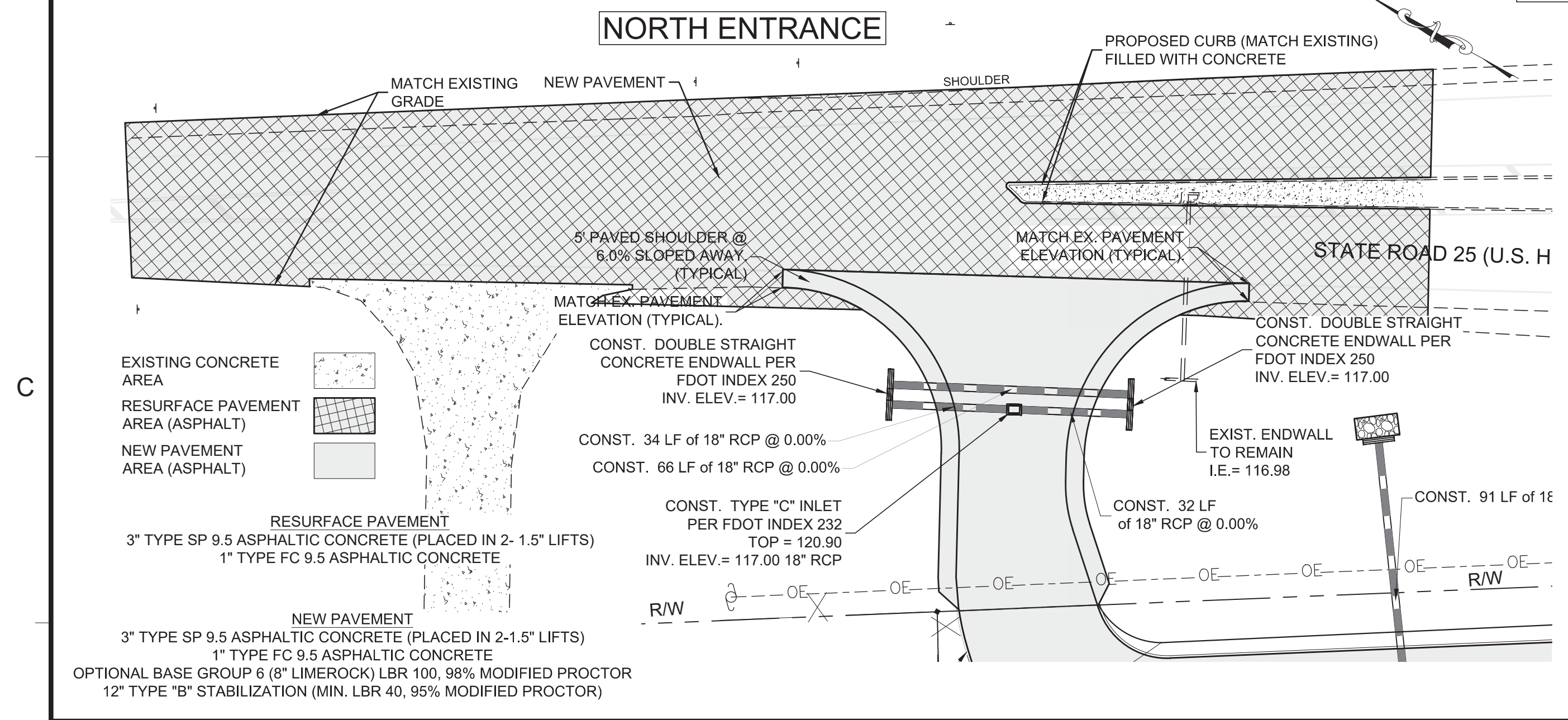
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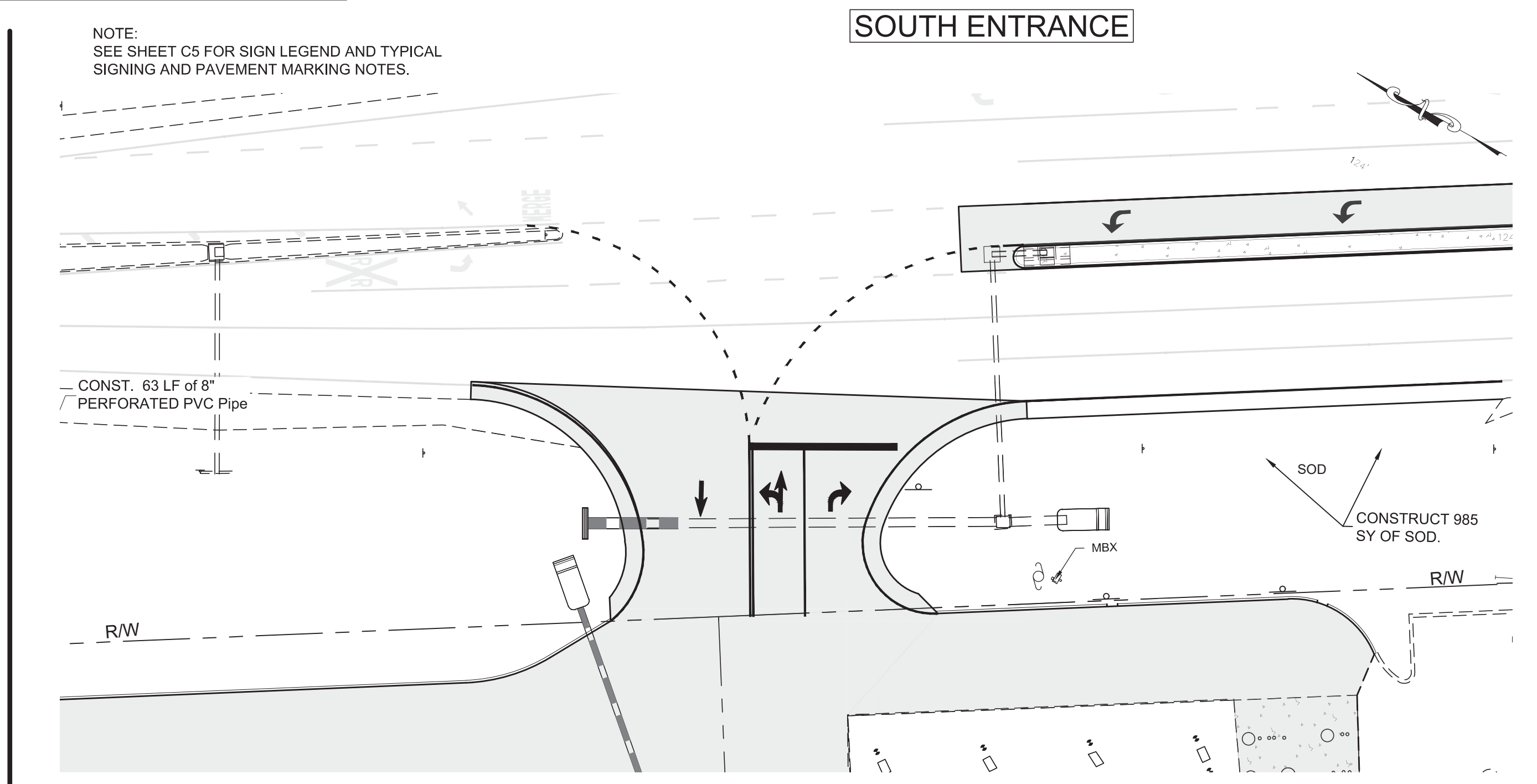
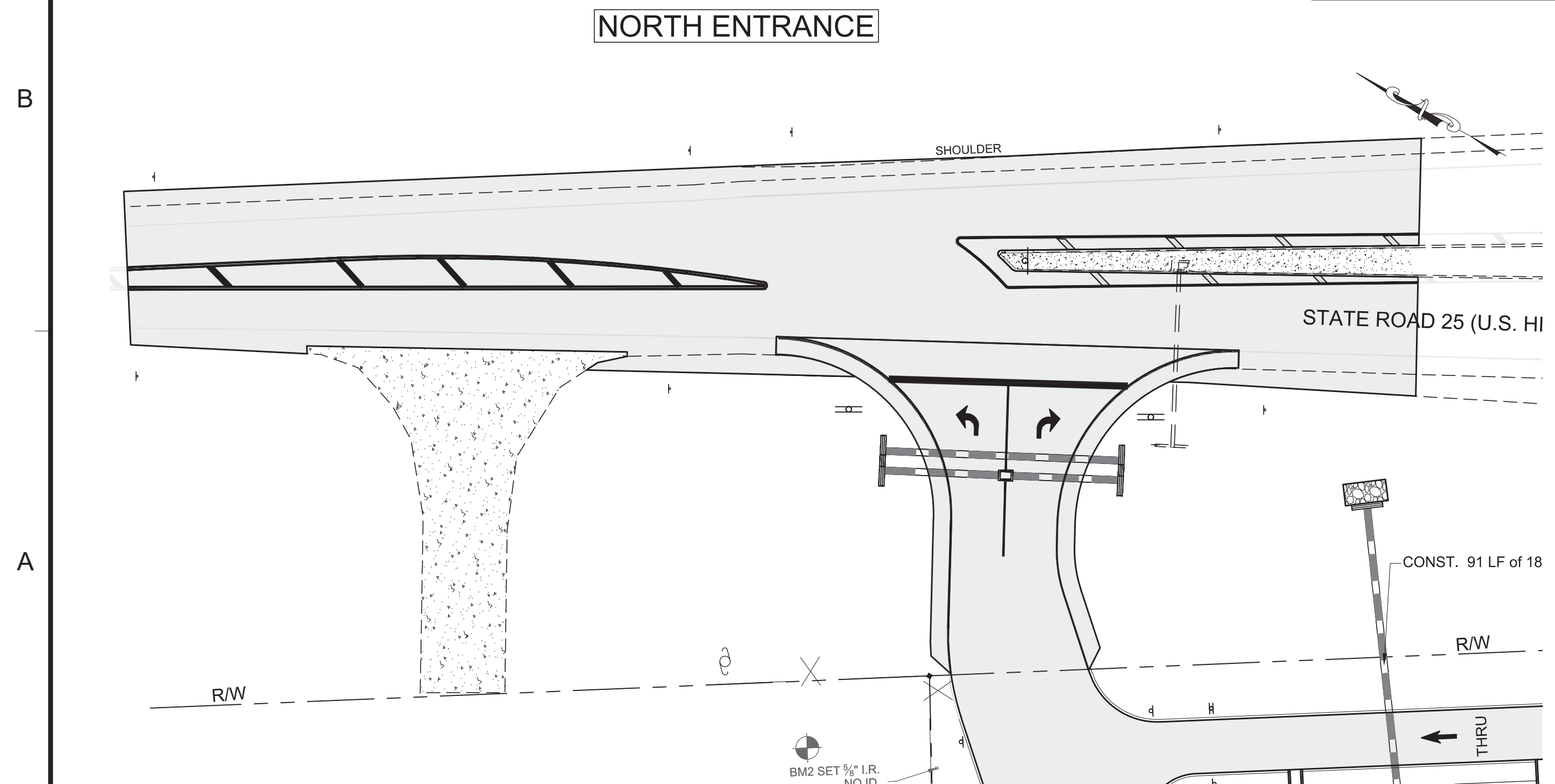
DEMOLITION AND EROSION CONTROL



SITE PLAN



SIGNING AND PAVEMENT MARKING PLAN



Dewberry Engineers Inc.
101 N. Monroe St.
Suite 710
Tallahassee, FL 32301
850.523.0062

BUSY BEE #7

SERVICE AREA EXPANSION
JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

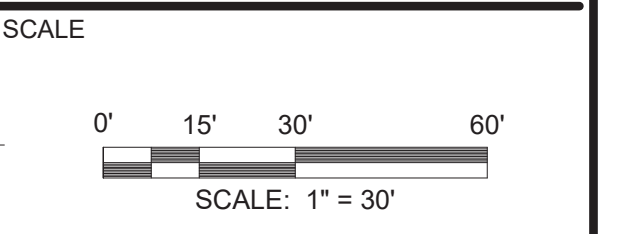
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TITLE

FDOT DRIVEWAY CONNECTION PLAN VIEW

PROJECT NO. 50093979

C8

SHEET NO.

P:\50093979 Busy Bee #7 - Svc Area Expansion\Civil\BdFolder_Production\50093979 Design rev 4-25-19.dwg, 5/3/2019 9:31:50 AM, FDOTPDF.pc3



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101 N. Monroe St.
Suite 710
Tallahassee, FL 32301
850.523.0062

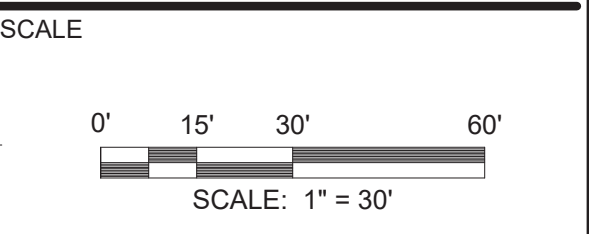
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SERVICE AREA EXPANSION
JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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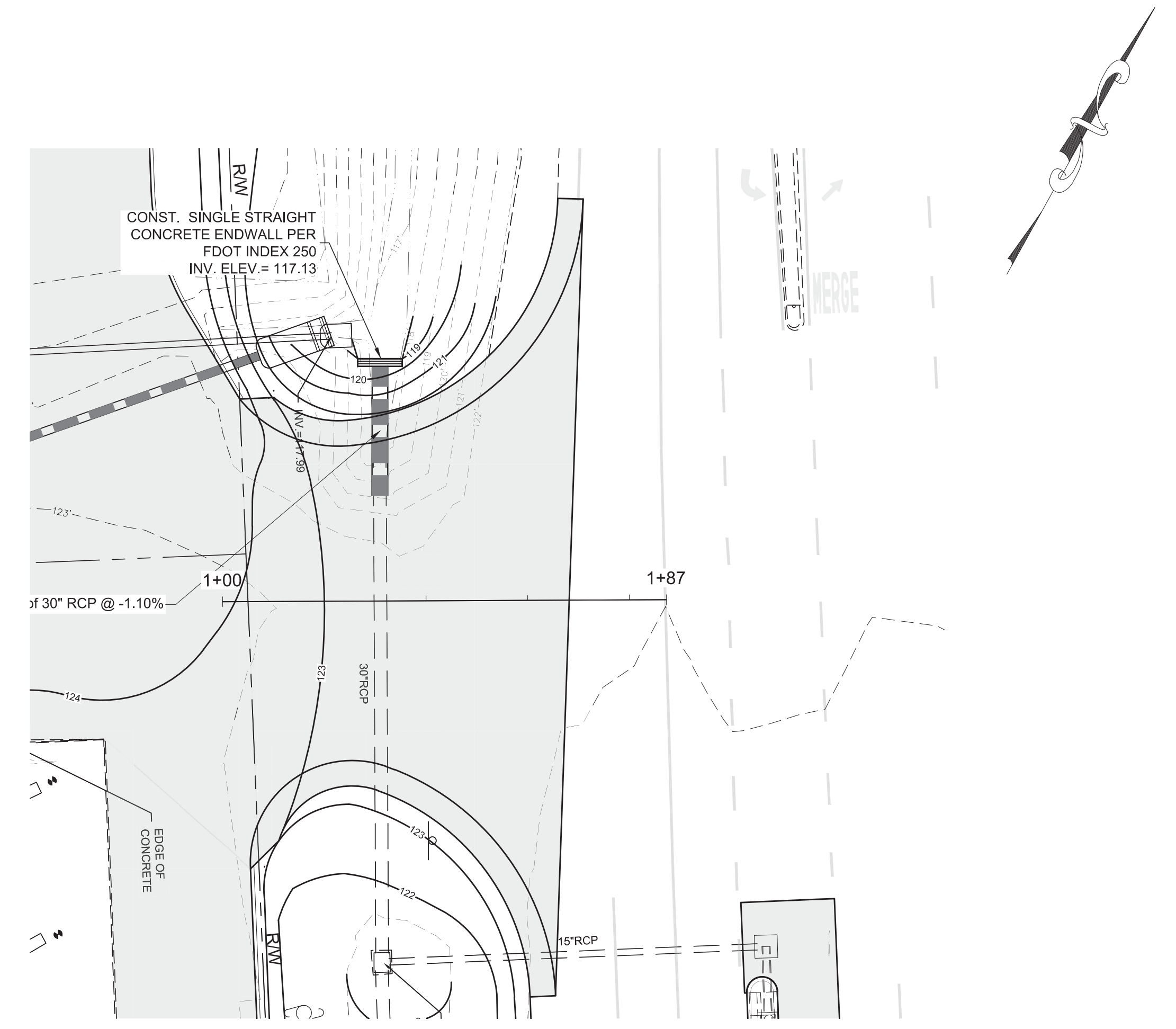
DRAWN BY JAL
APPROVED BY JBB
CHECKED BY AOA
DATE MAY 03, 2019

TITLE
DRIVEWAY CONNECTION PLAN AND PROFILES

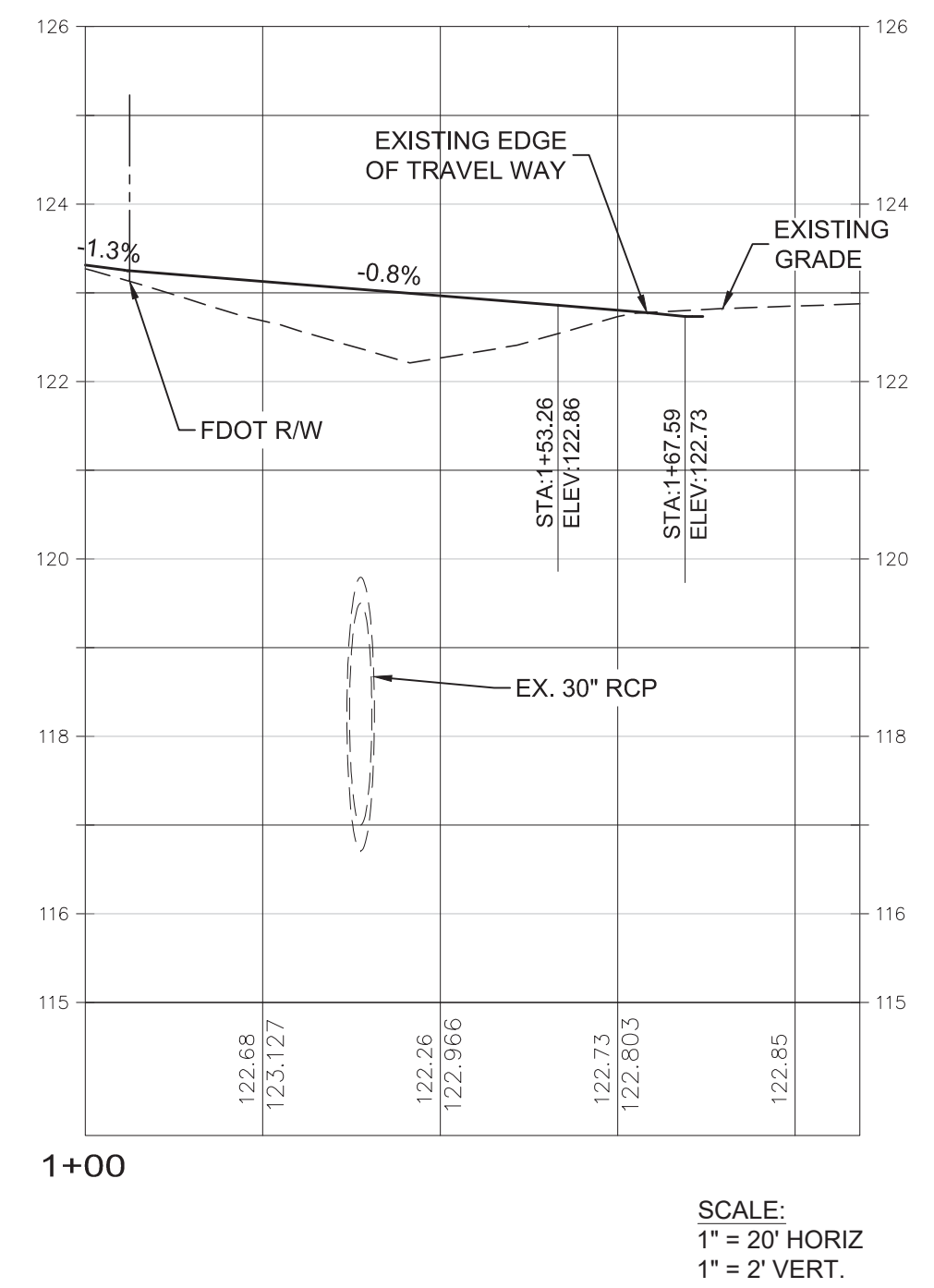
PROJECT NO. 50093979

C9

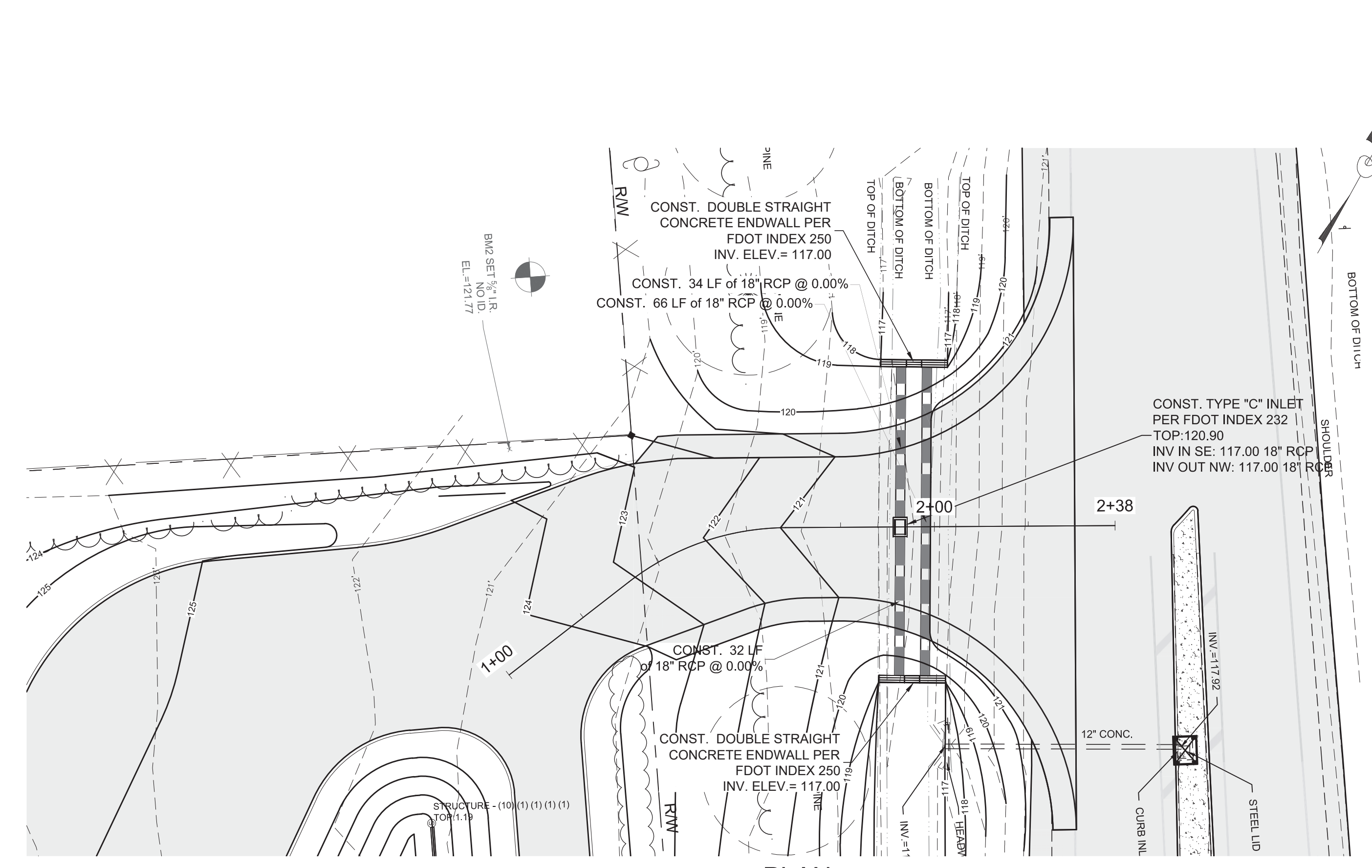
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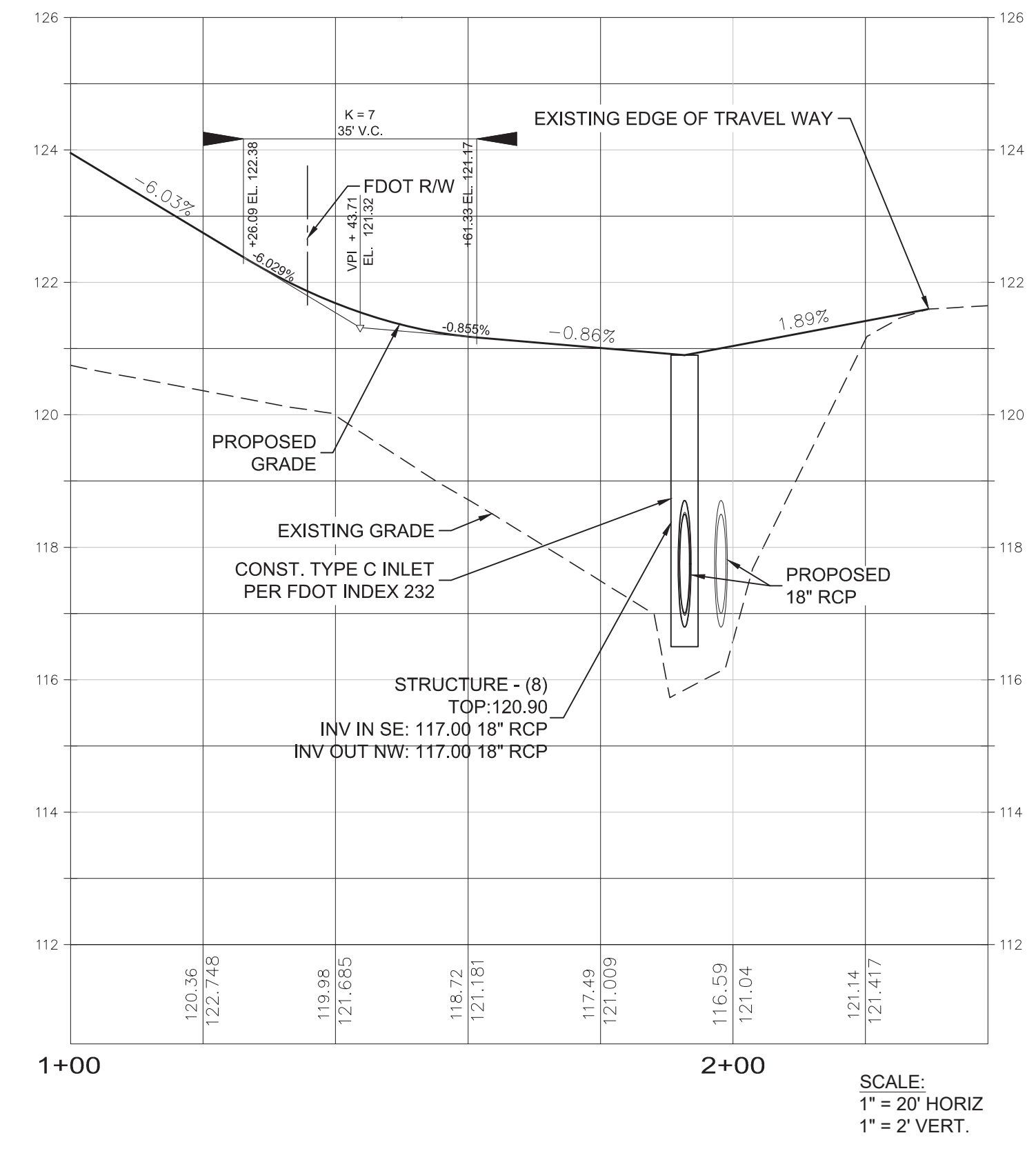
PLAN
SOUTHERN DRIVEWAY CONNECTION
SCALE: 1" = 30'



PROFILE
SOUTHERN DRIVEWAY CONNECTION
SCALE:
1" = 20' HORIZ
1" = 2' VERT.



PLAN
NORTHERN DRIVEWAY CONNECTION
SCALE: 1" = 30'



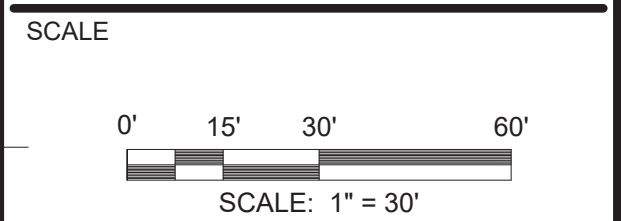
PROFILE
NORTHERN DRIVEWAY CONNECTION
SCALE:
1" = 20' HORIZ
1" = 2' VERT.

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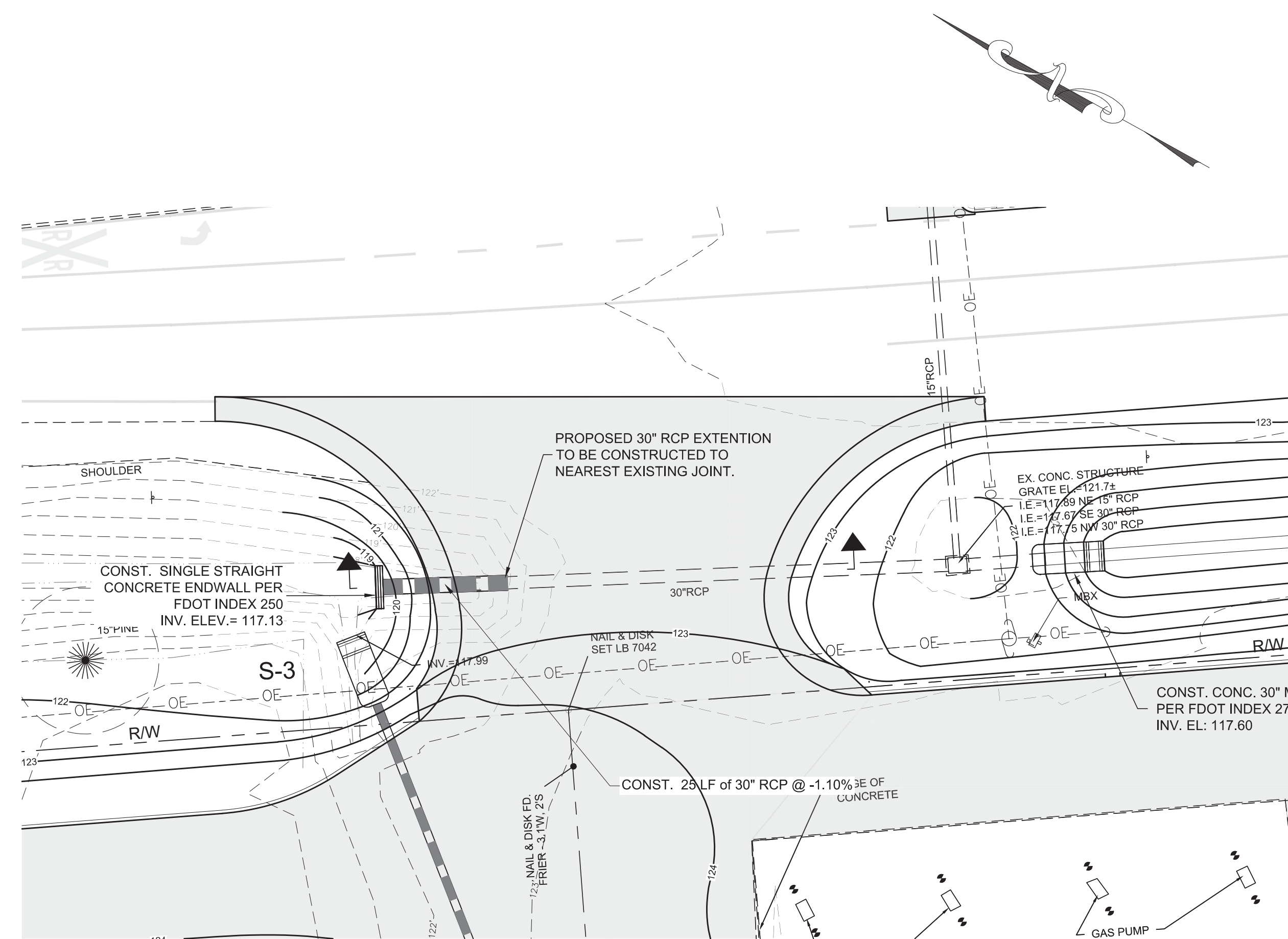
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DRIVEWAY CONNECTION CROSS SECTIONS

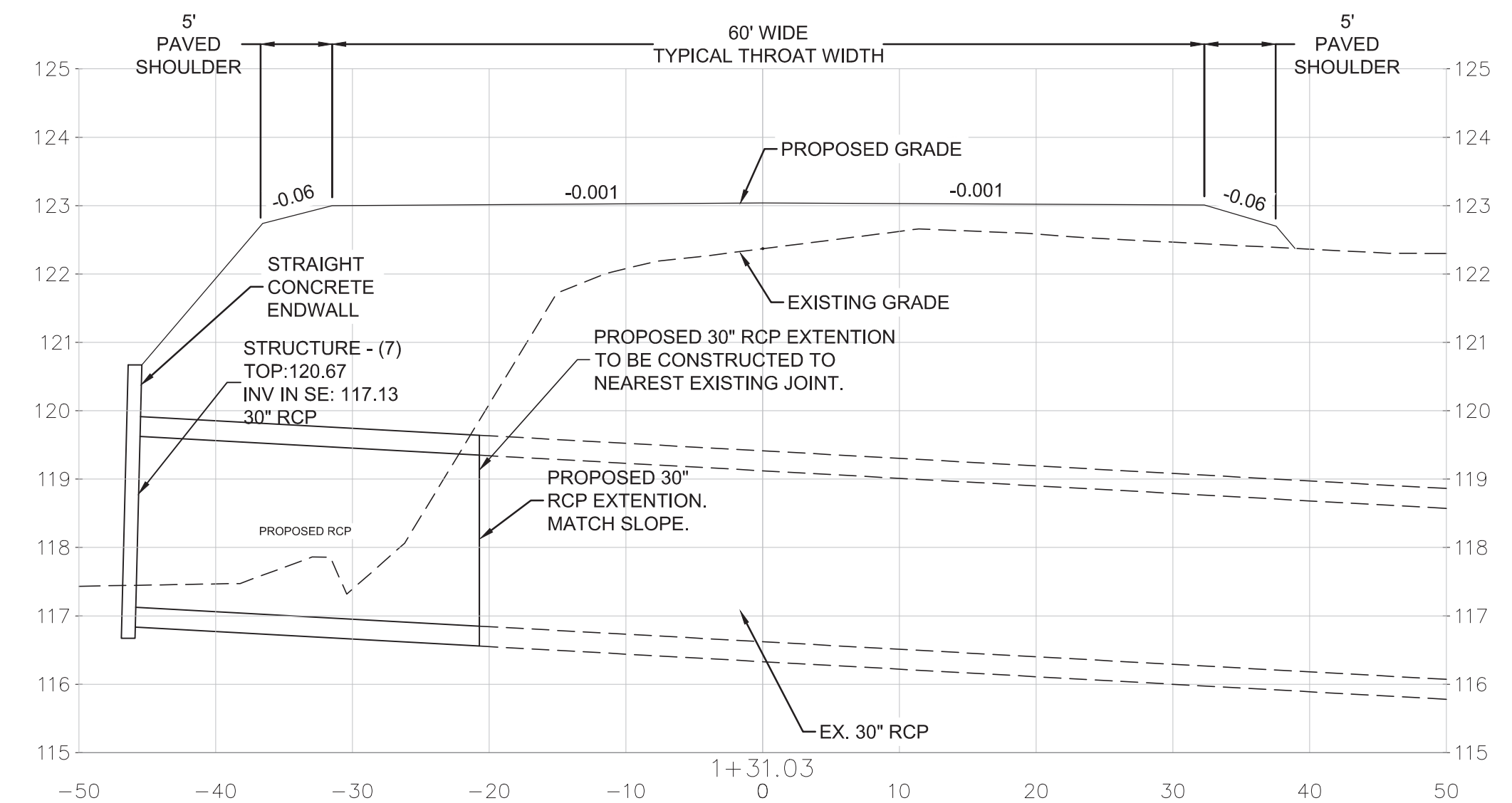
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C10

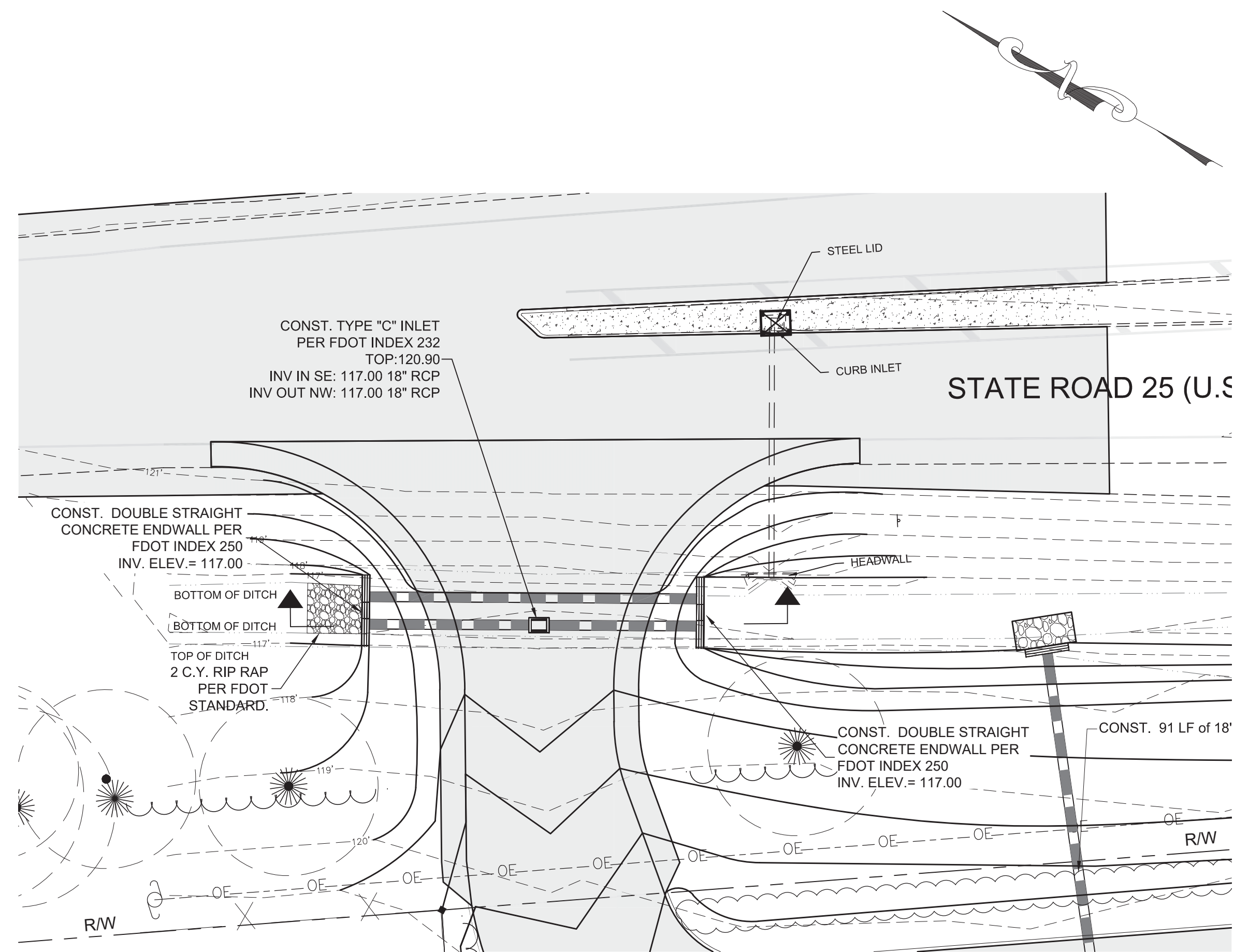
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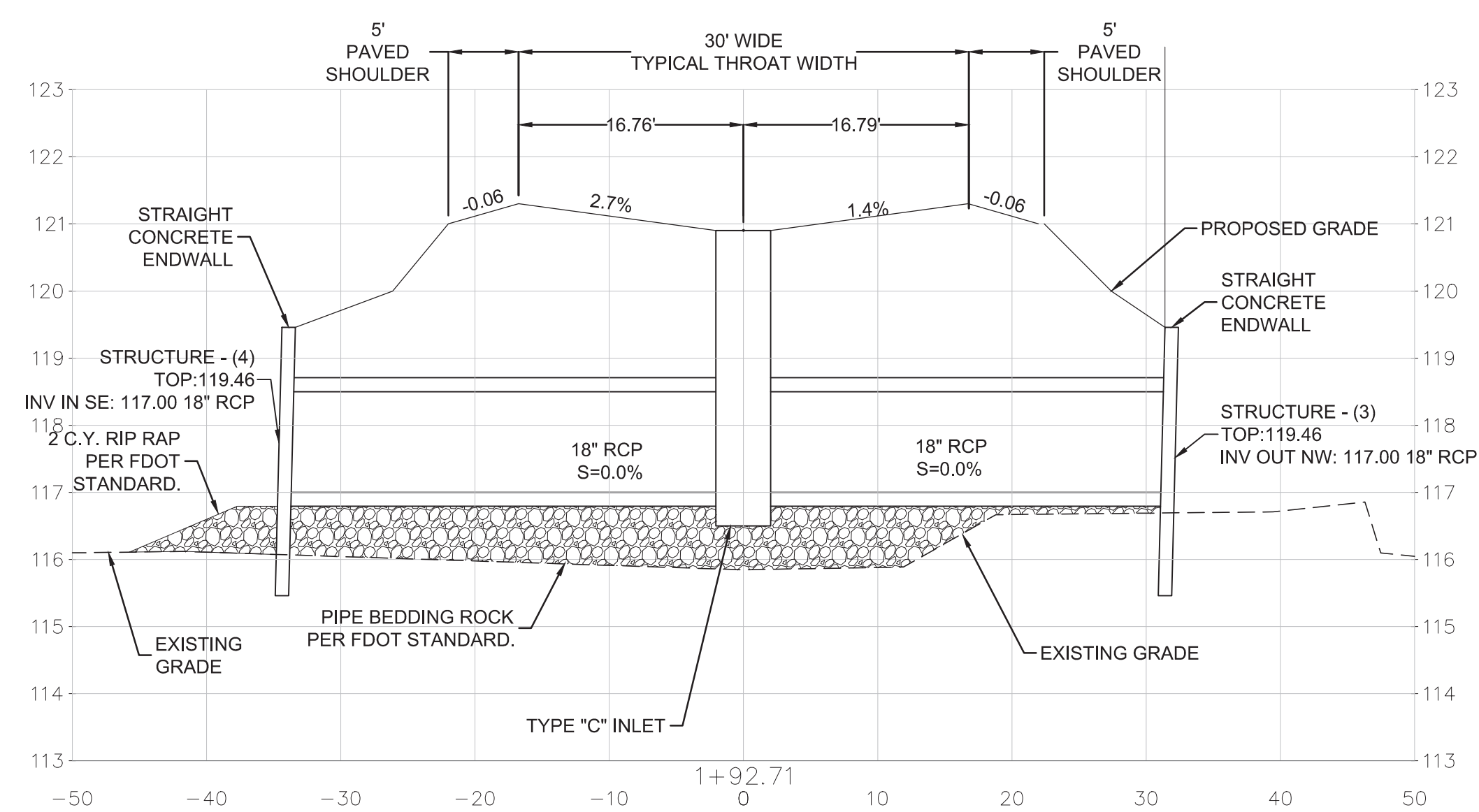
PLAN
SOUTHERN DRIVEWAY CONNECTION
SCALE: 1" = 20'



SECTION
SOUTHERN DRIVEWAY CONNECTION
SCALE: 1" = 10' HORIZ
1" = 2' VERT.



PLAN
NORTHERN DRIVEWAY CONNECTION
SCALE: 1" = 20'



SECTION
NORTHERN DRIVEWAY CONNECTION
SCALE: 1" = 10' HORIZ
1" = 2' VERT.

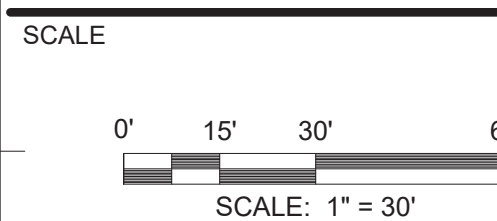
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JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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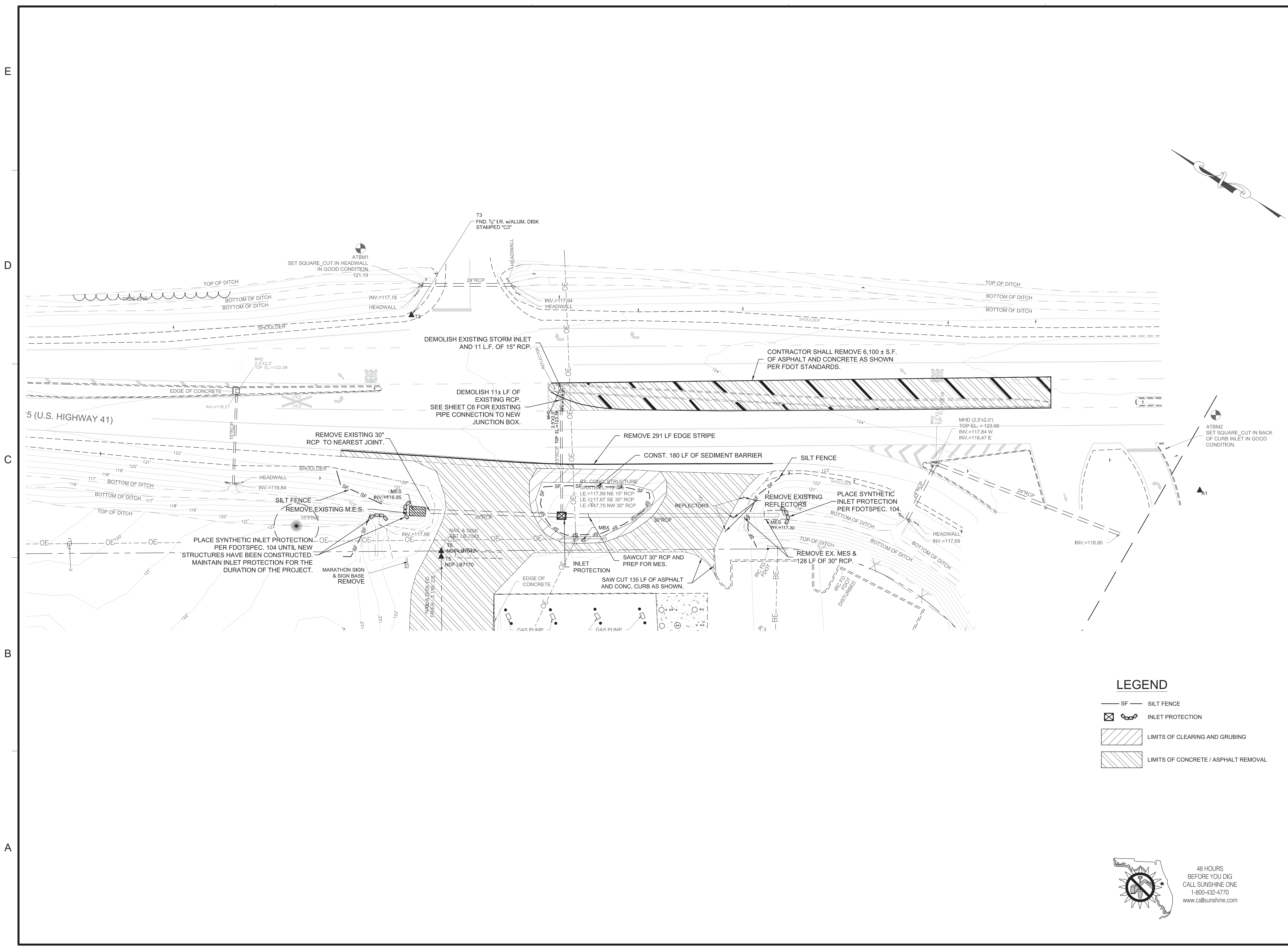
DRAWN BY _____ JAL
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CHECKED BY _____ AOA
DATE _____ MAY 03, 2019

TITLE
TURN LANE DEMOLITION & EROSION CONTROL

PROJECT NO. 50093979

C11

SHEET NO.

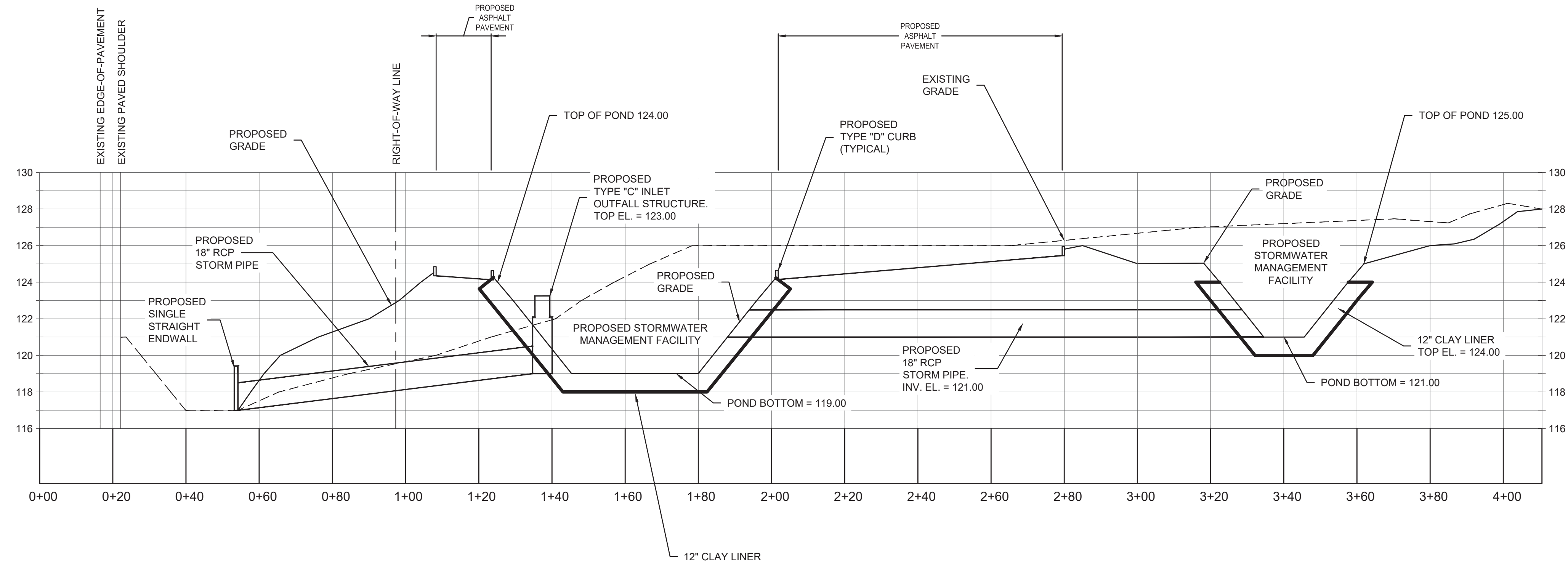


LEGEND

- SILT FENCE
- INLET PROTECTION
- LIMITS OF CLEARING AND GRUBING
- LIMITS OF CONCRETE / ASPHALT REMOVAL

48 HOURS BEFORE YOU DIG
CALL SUNSHINE ONE
1-800-432-4770
www.callsunshine.com

P:\50093979 Busy Bee #7 Svc Area Expansion\Civil3d\Folder_Production\SITEPLAN-Turnlane.dwg, 5/3/2019 9:40:14 AM, FDOT.DWG.p3

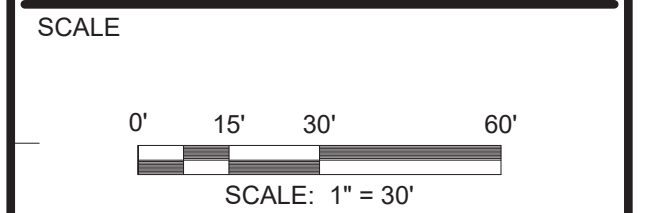


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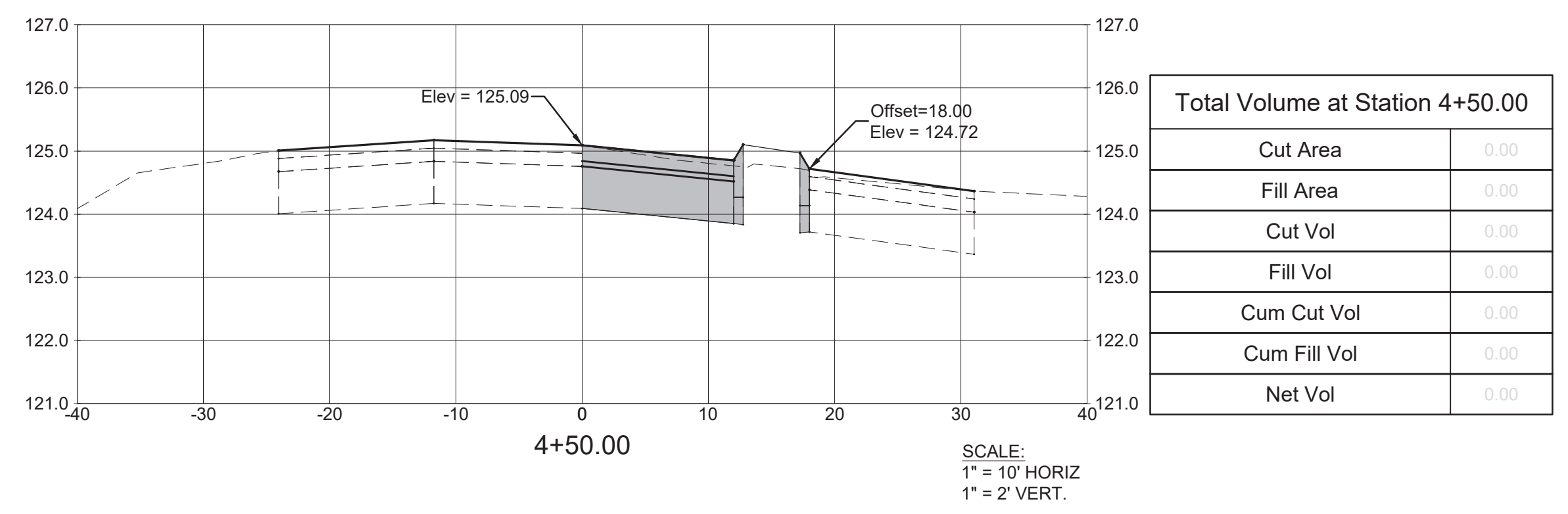
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CROSS SECTIONS

PROJECT NO. 50093979

C14

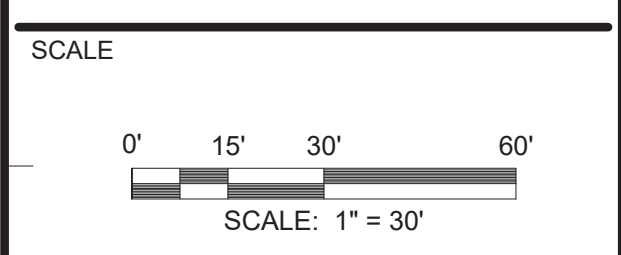
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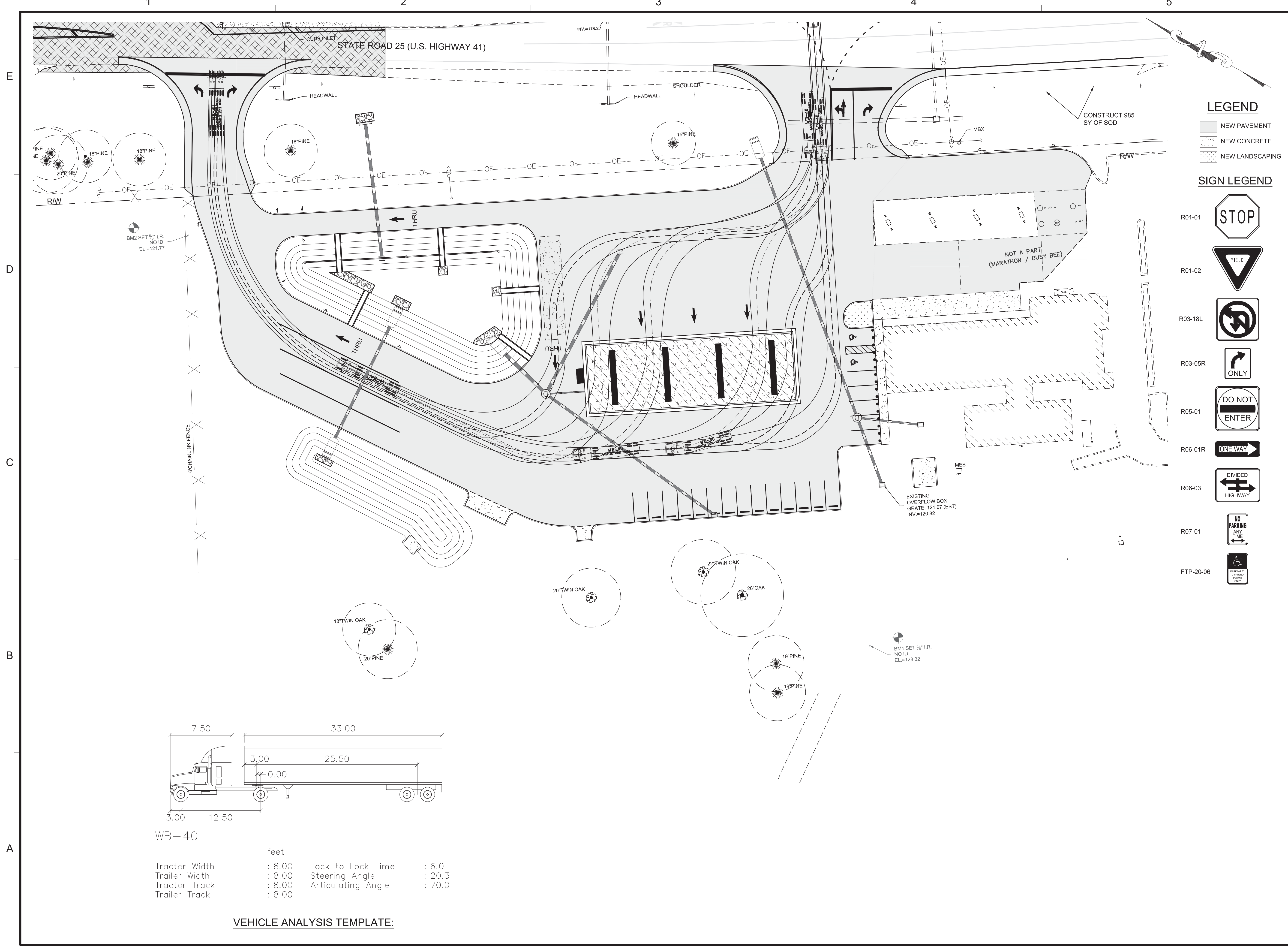
TITLE

**AUTO
TURN
ANALYSIS**

PROJECT NO. 50093979

C16

SHEET NO.

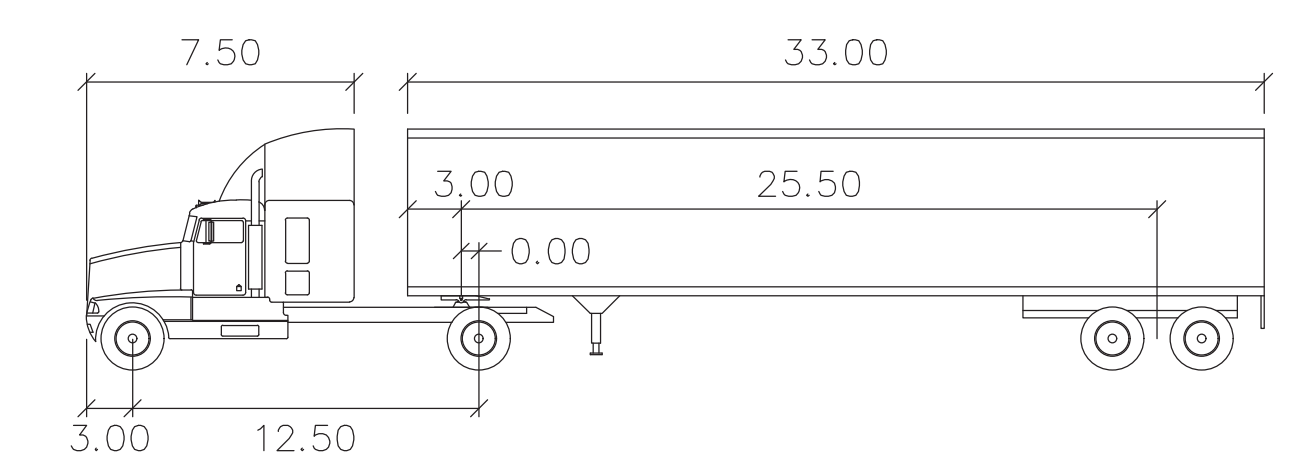


LEGEND

- NEW PAVEMENT
- NEW CONCRETE
- NEW LANDSCAPING

SIGN LEGEND

- R01-01
- R01-02
- R03-18L
- R03-05R
- R05-01
- R06-01R
- R06-03
- R07-01
- FTP-20-06



WB-40

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		

VEHICLE ANALYSIS TEMPLATE:

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COA# 8794

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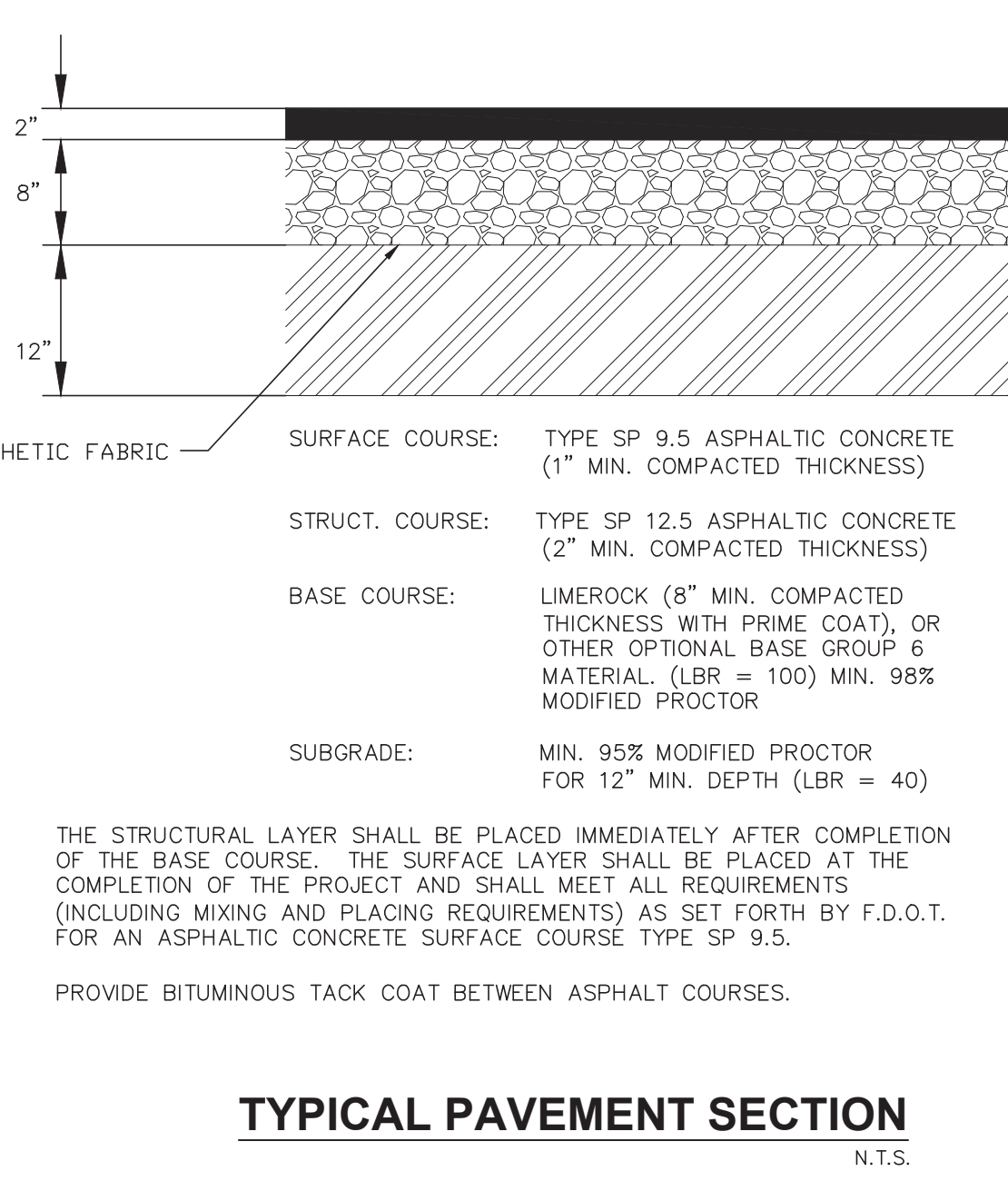
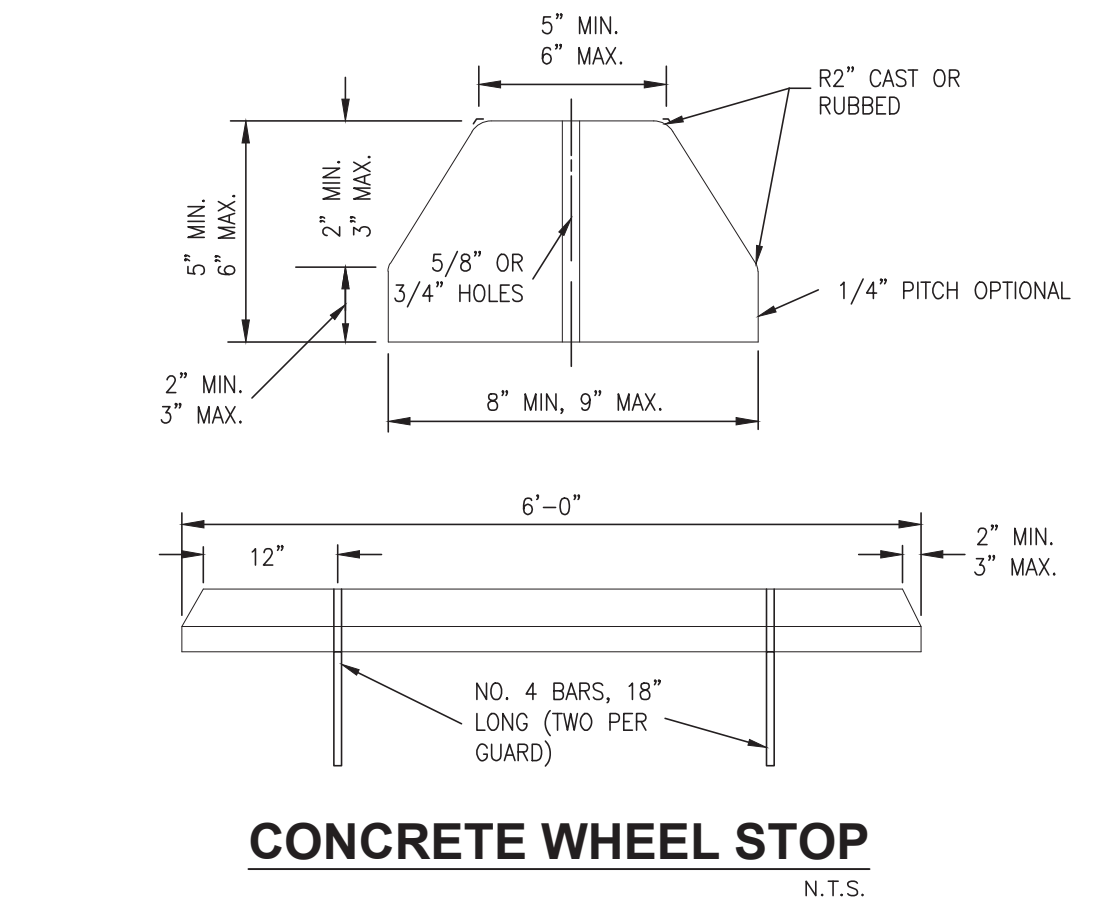
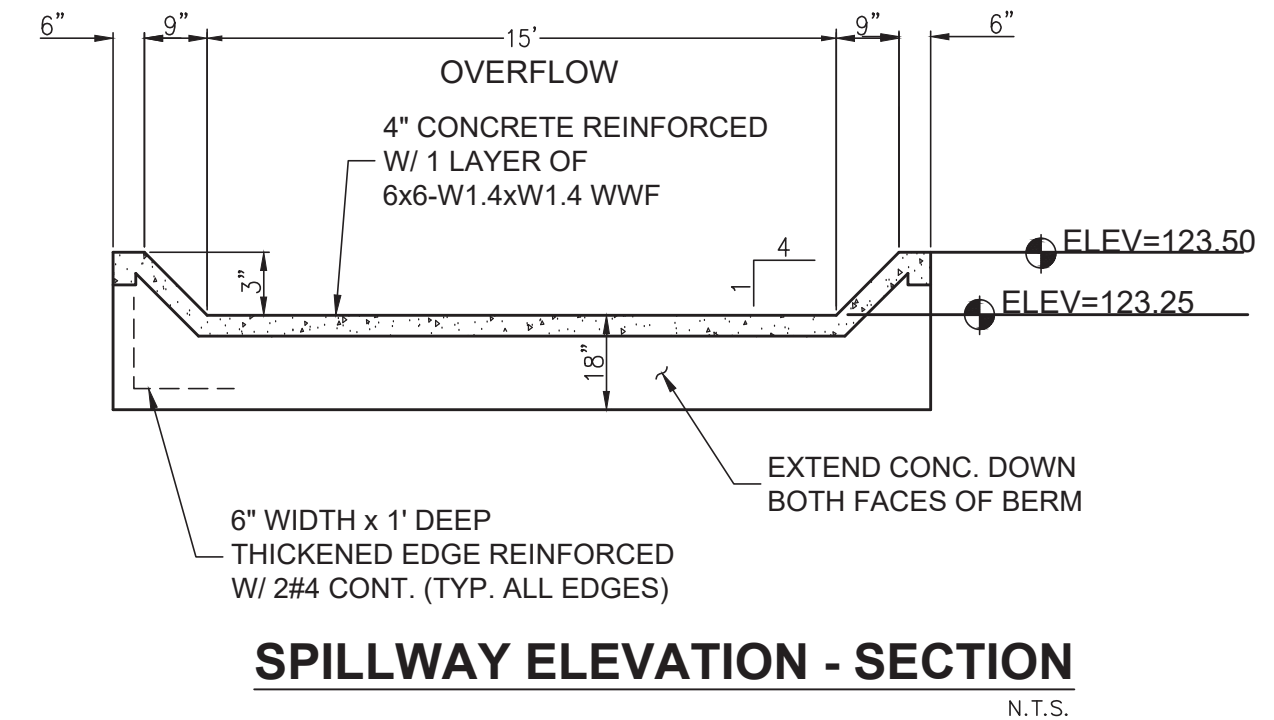
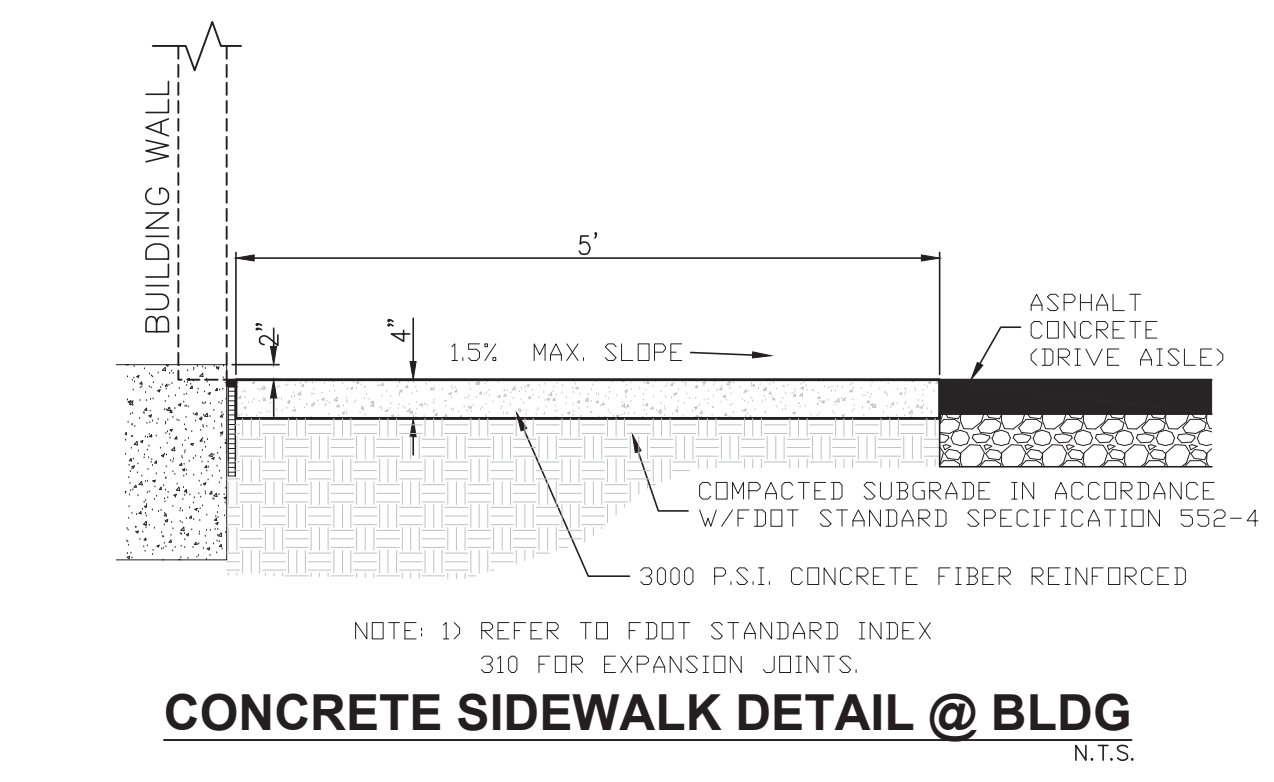
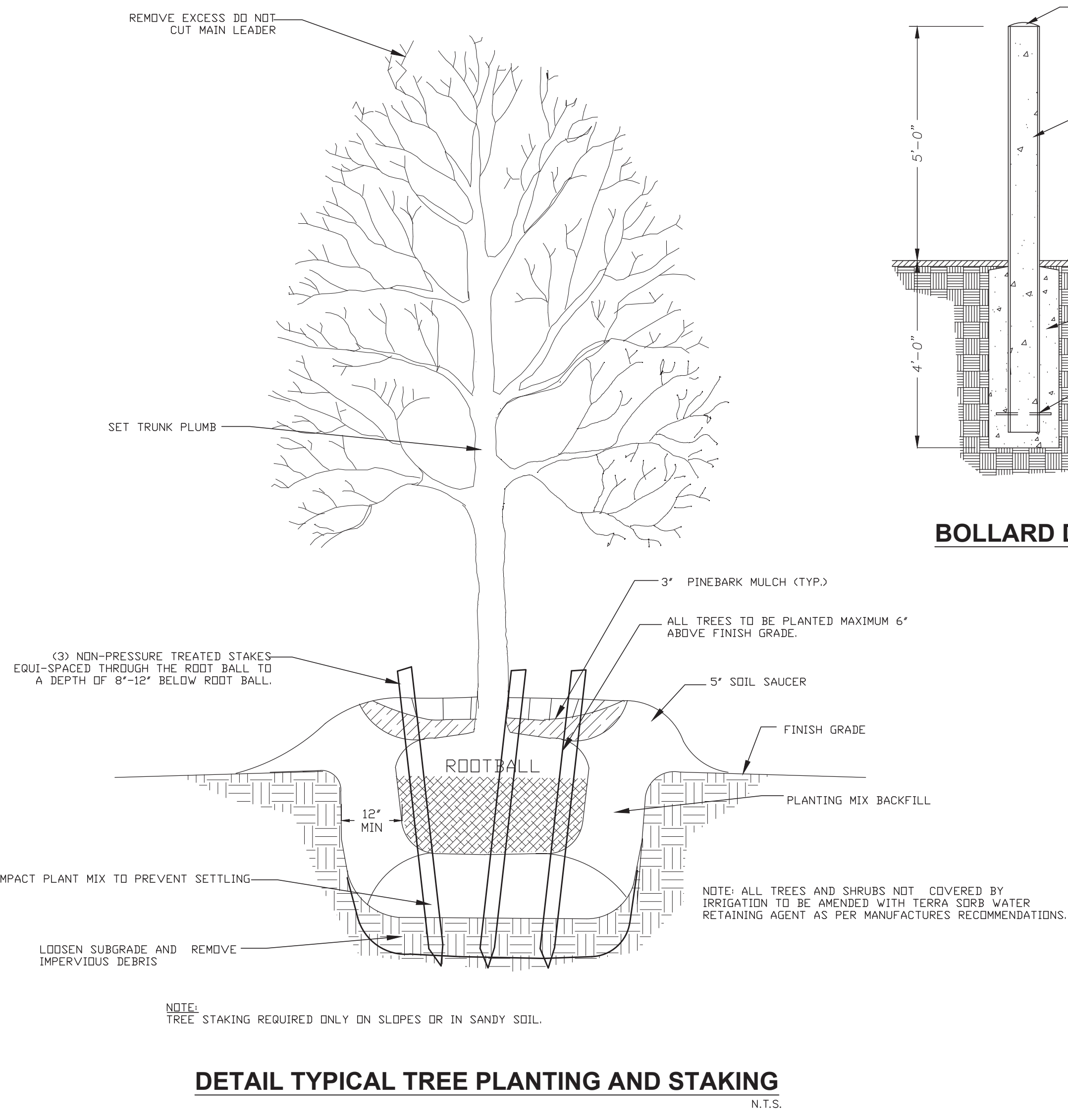
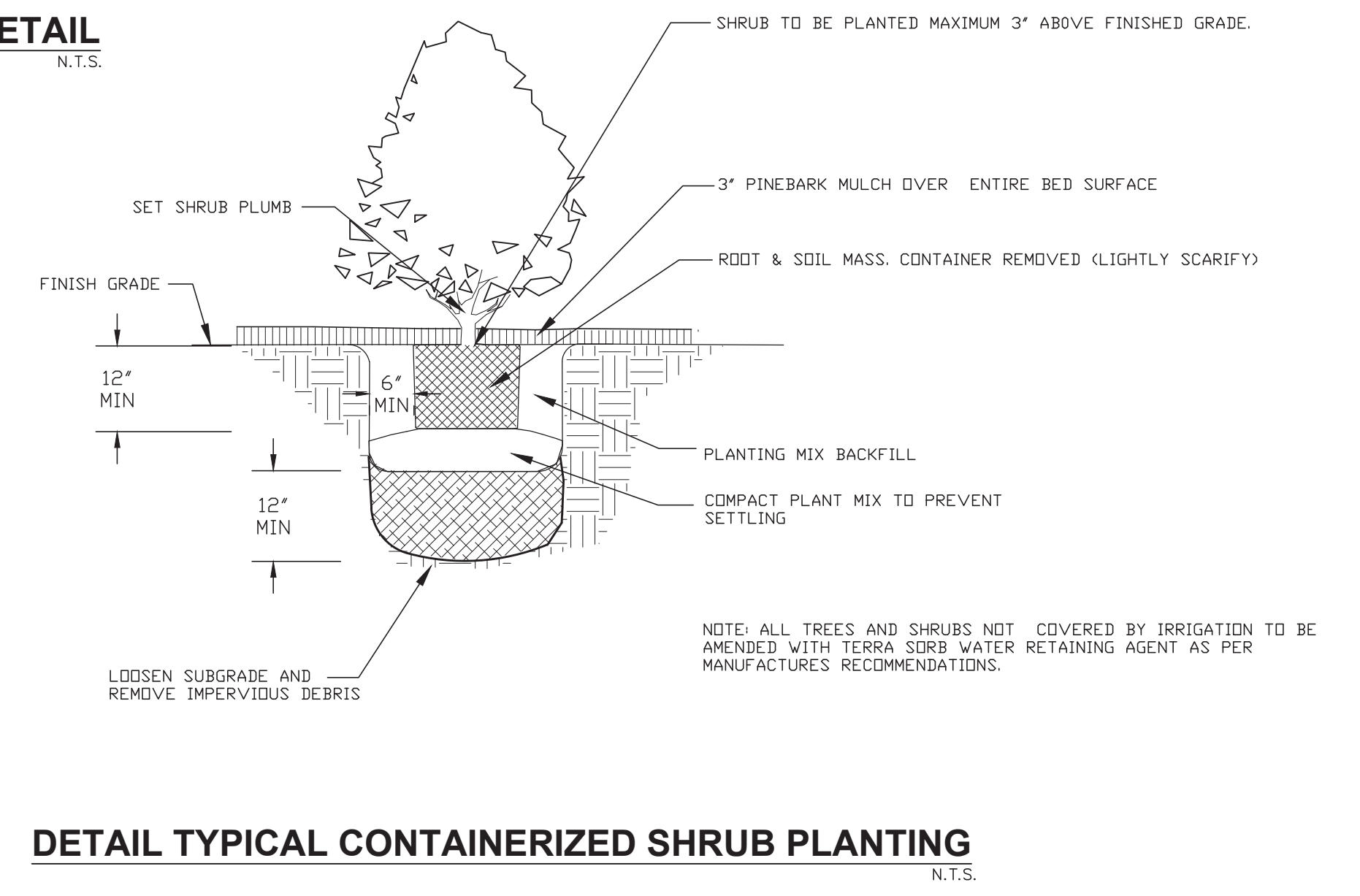
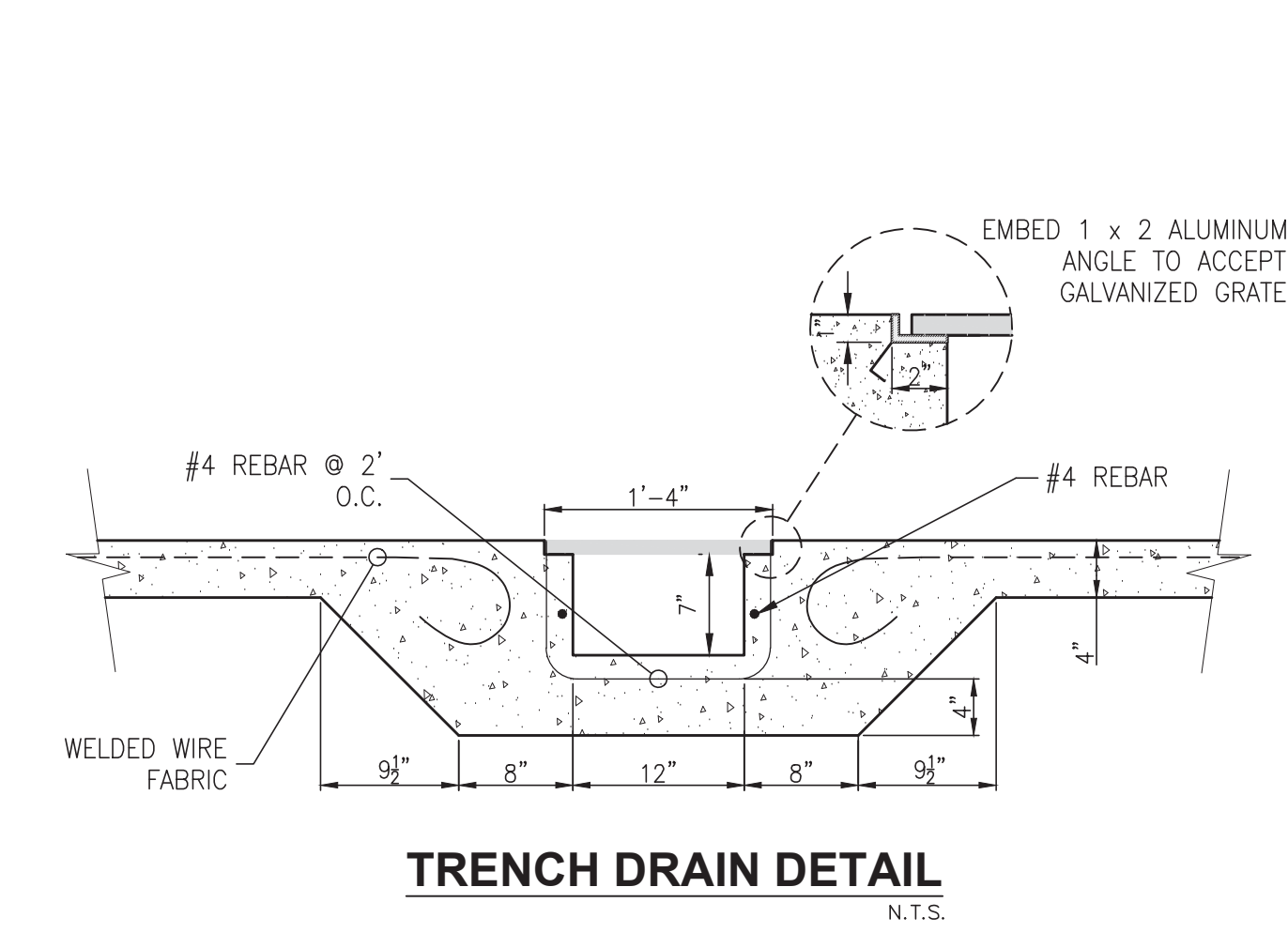
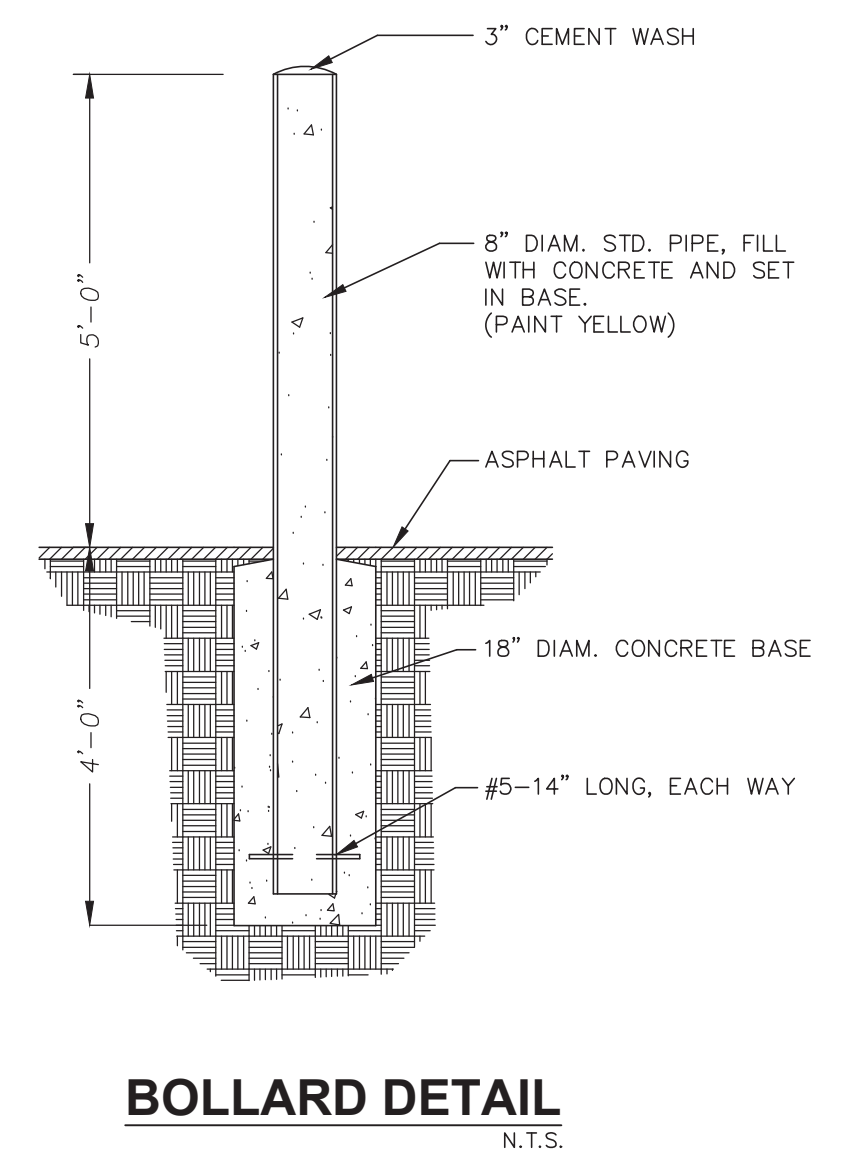
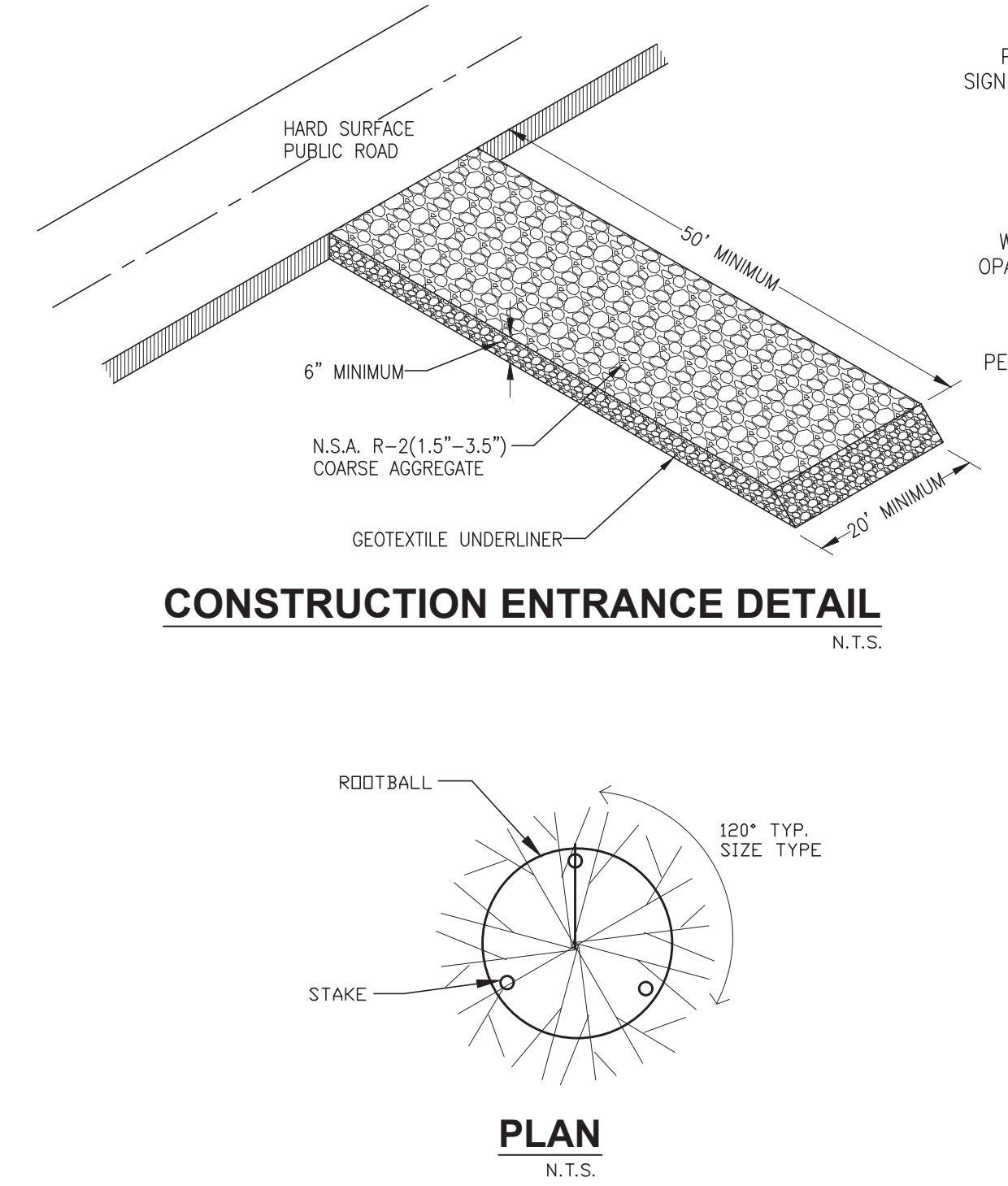
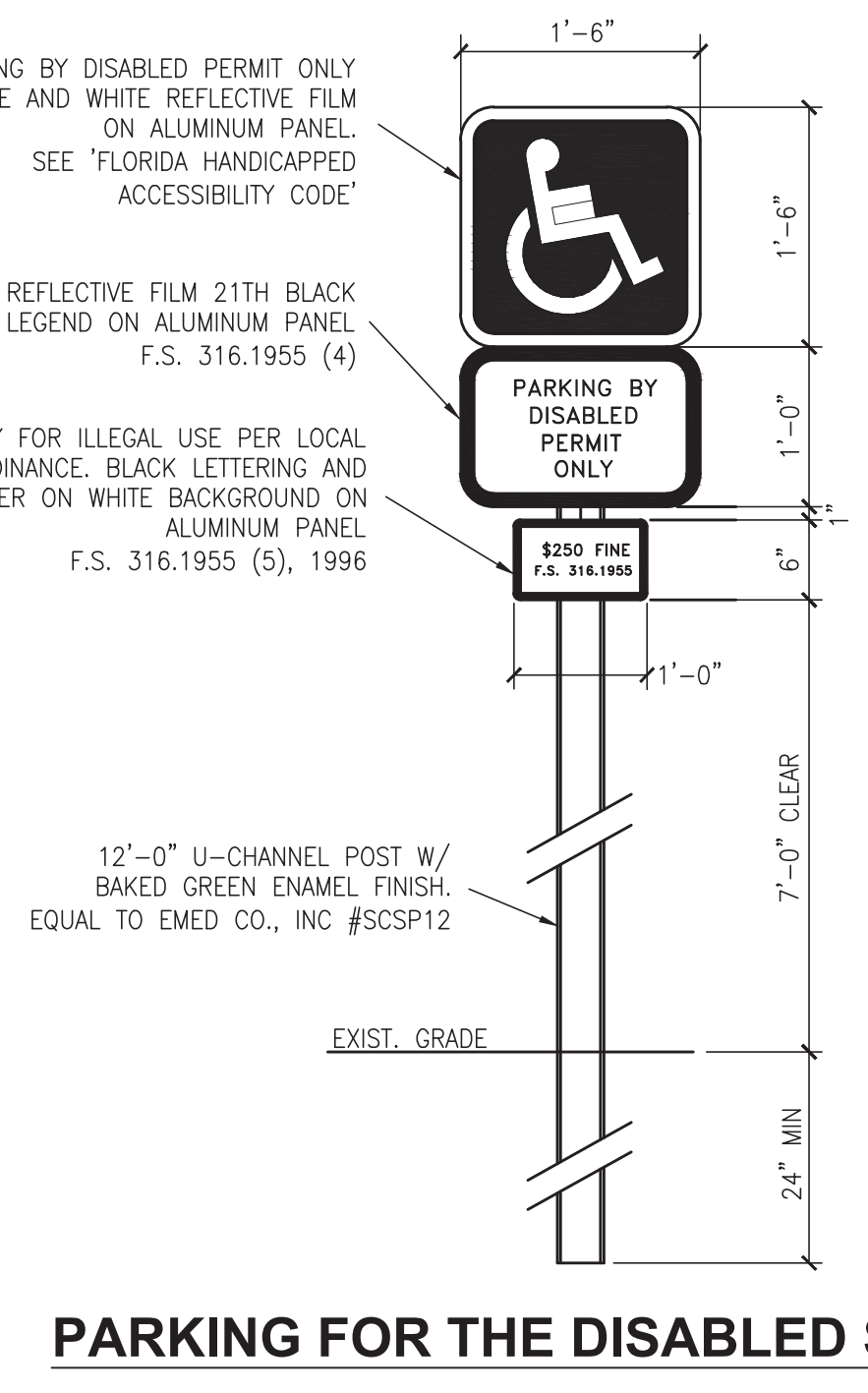
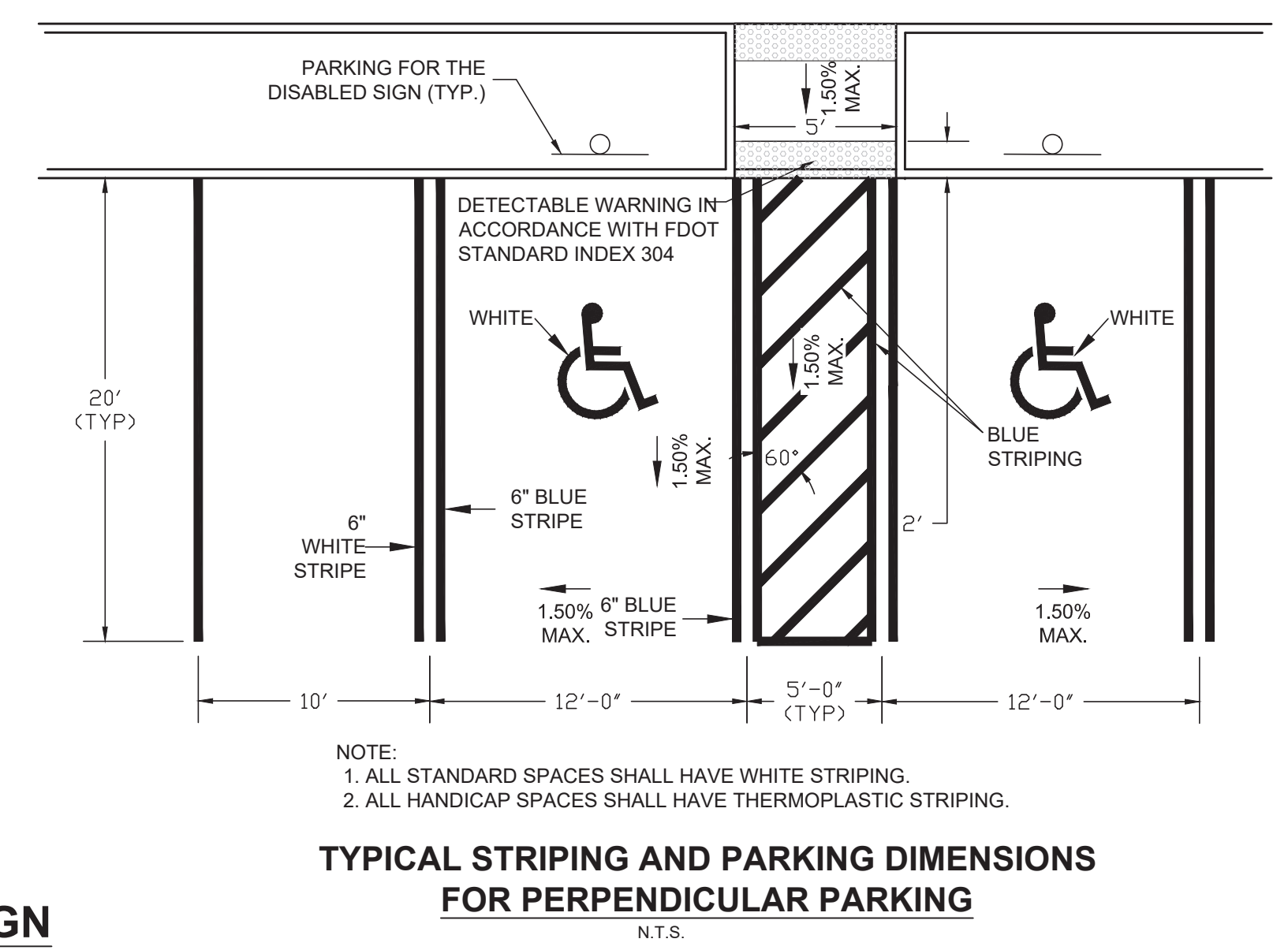
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APPROVED BY: JBB
CHECKED BY: AOA
DATE: MAY 03, 2019

TITLE
MISCELLANEOUS DETAILS

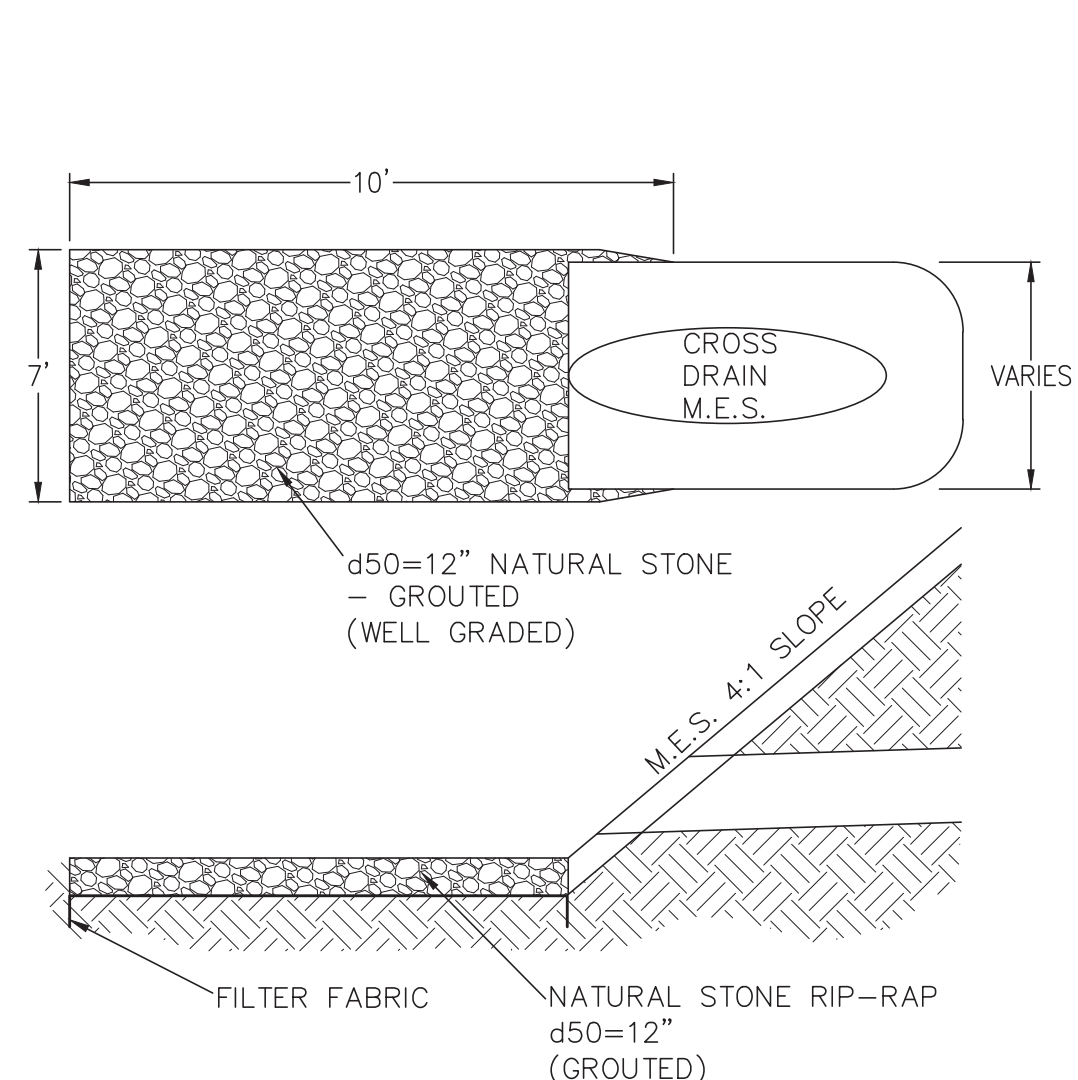
PROJECT NO. 50093979

D1

SHEET NO. SHEET NO.

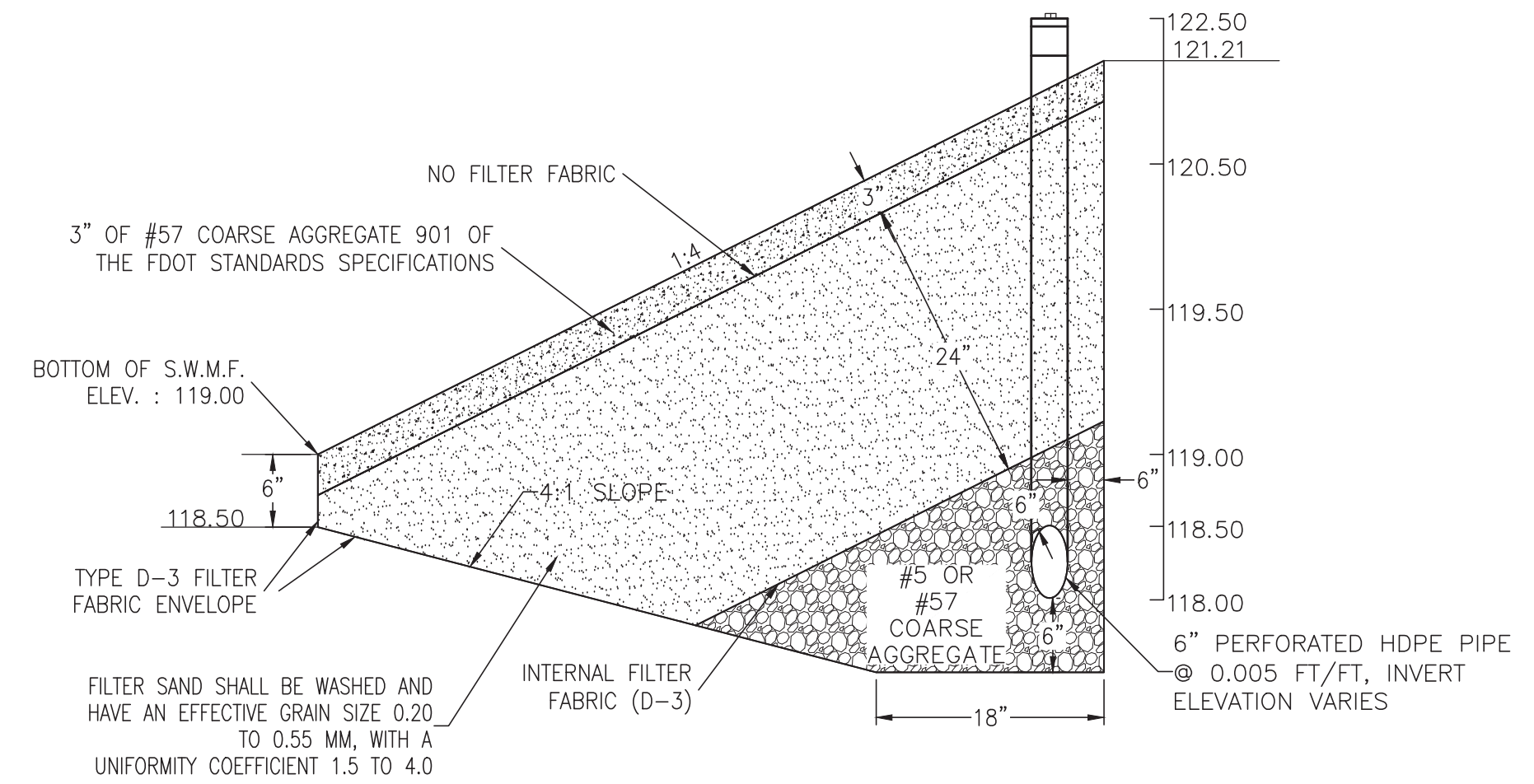


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- NOTES:**
1. RIP-RAP WILL REMAIN AFTER CONSTRUCTION IS COMPLETE FOR ENERGY DISSIPATION.
 2. ALL SEDIMENT SHALL BE REMOVED FROM RIP-RAP AFTER CONSTRUCTION IS COMPLETE.
 3. OTHER AREA DISTURBED BY CONSTRUCTION SHALL BE SODDED.

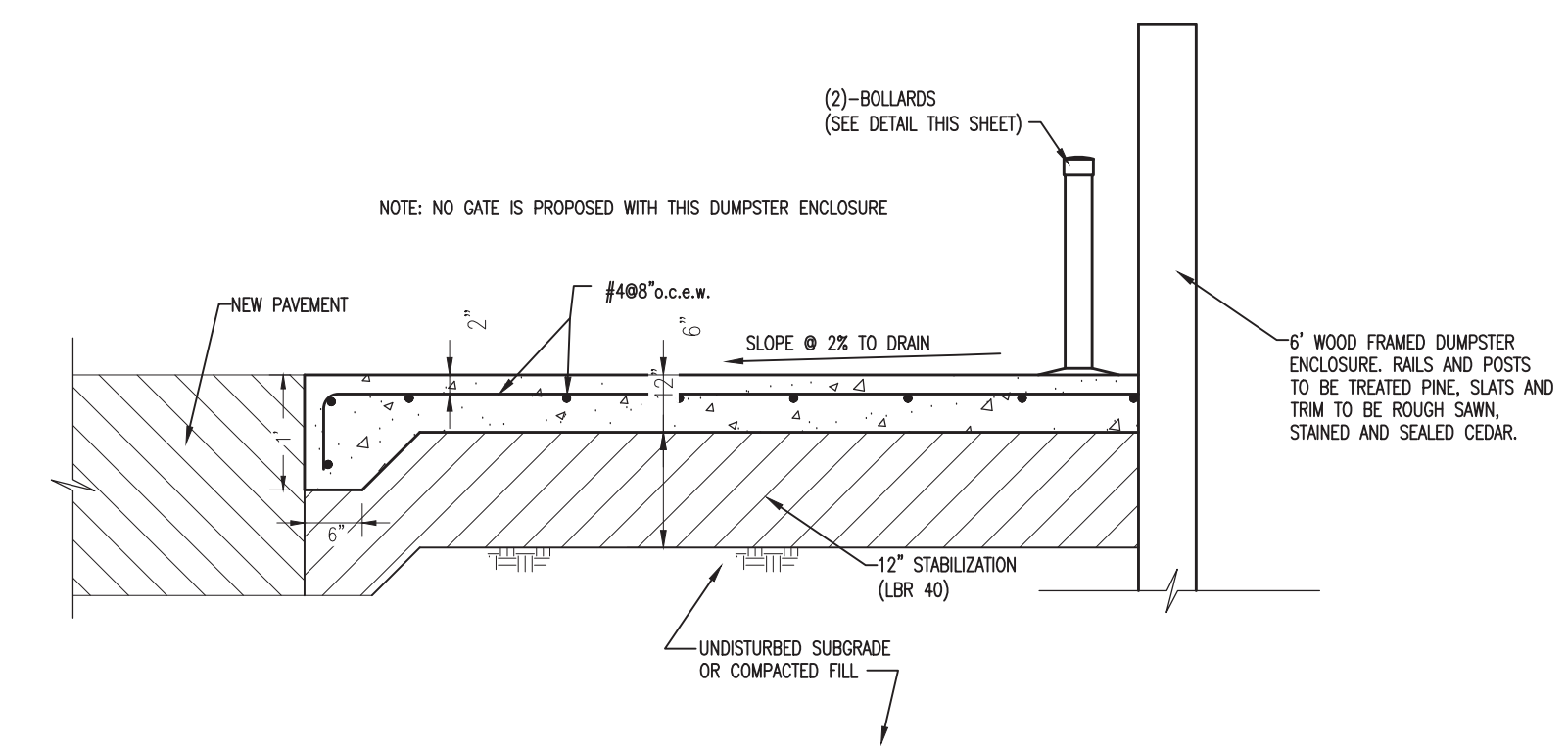
RIPRAP ENERGY DISSIPATOR DETAIL
N.T.S.



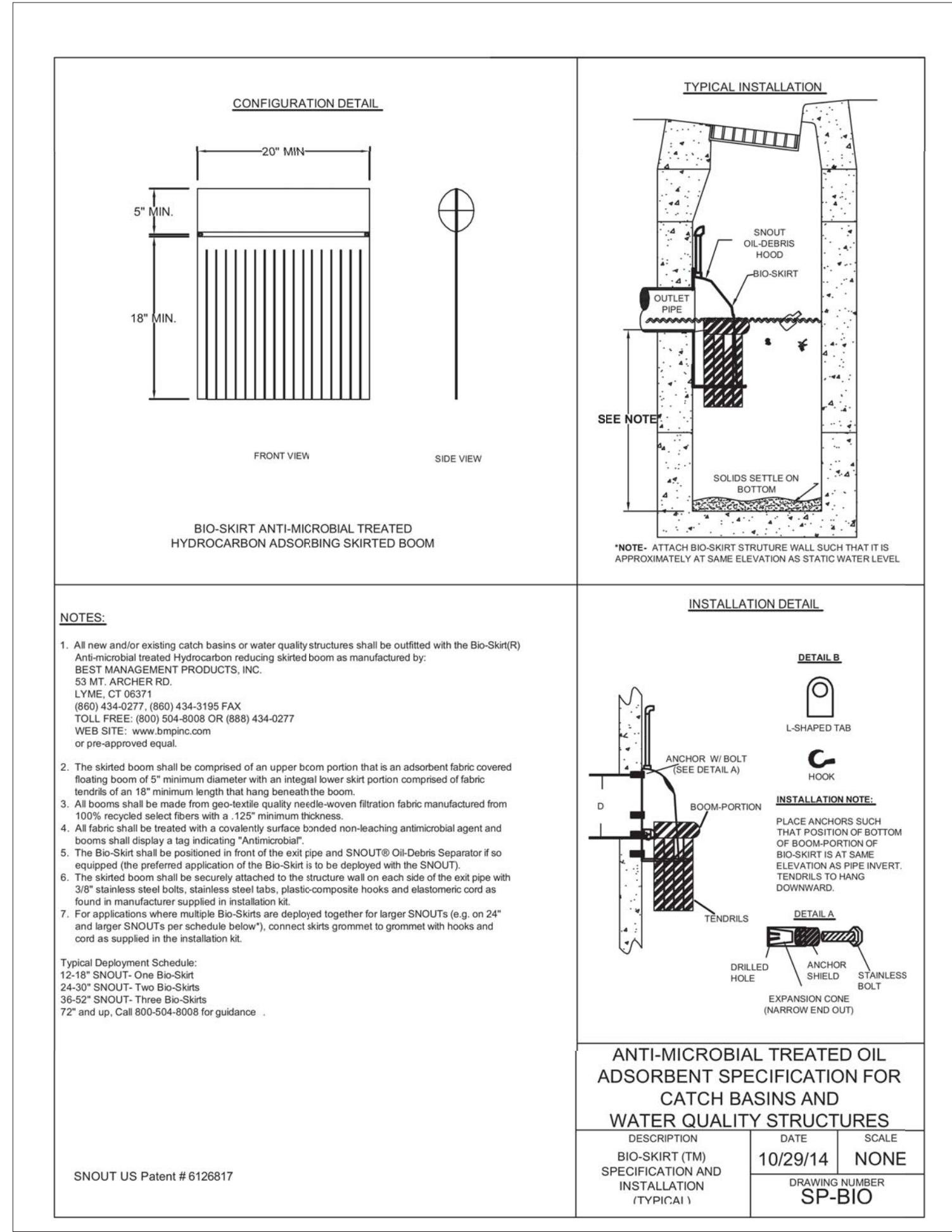
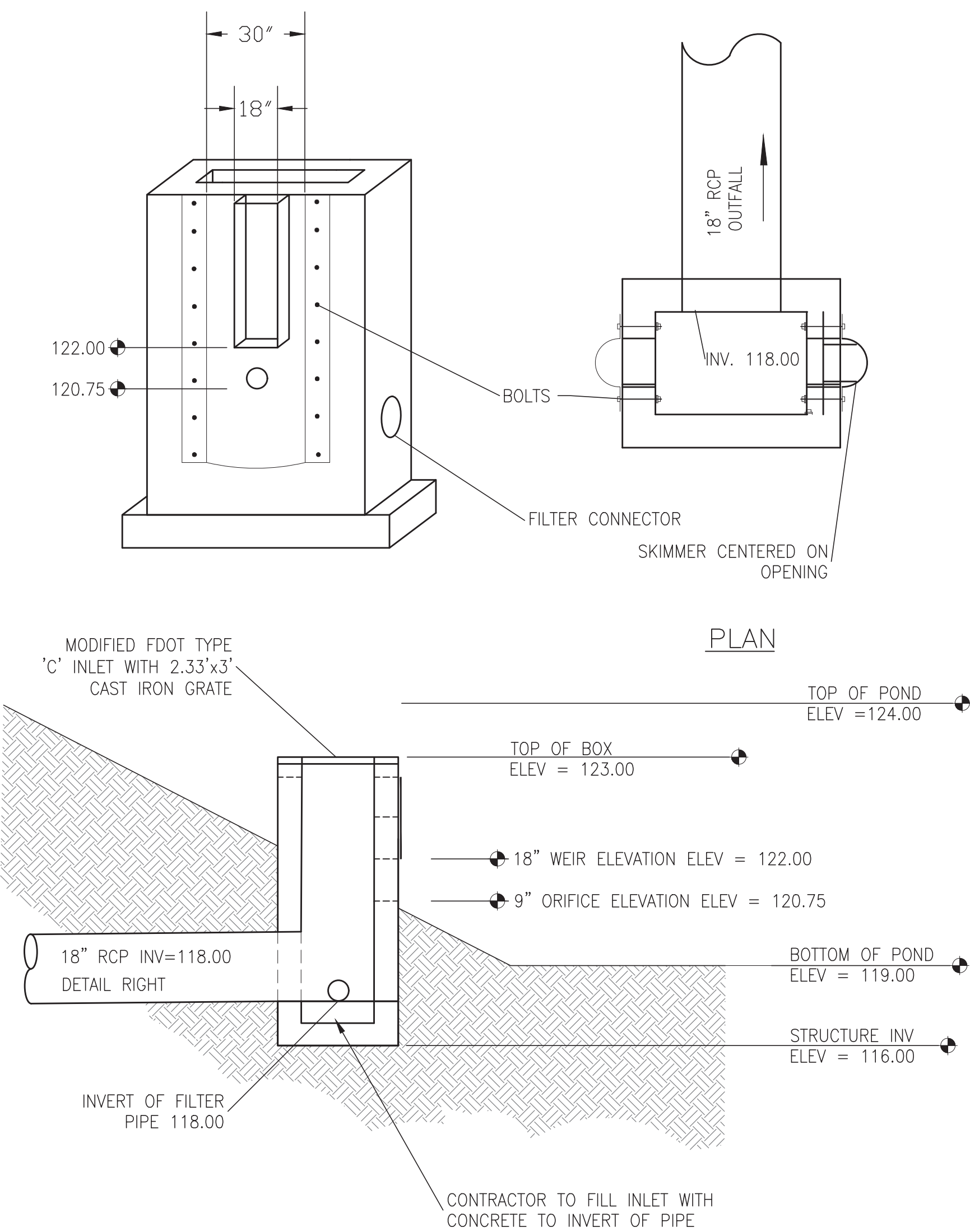
NOTES:

1. THE CONTRACTOR SHALL PROVIDE THE GRAIN-SIZE ANALYSIS OF THE SELECTED FILTER SAND TO THE REGISTERED PROFESSIONAL.
2. PROVIDING A SILT FENCE AROUND THE PERIMETER OF SAND FILTER UNTIL THE DRAINAGE BASIN IS STABILIZED, WITH SUBSEQUENT REMOVAL, OR; PROVIDING AN OVERBURDEN OF CLEAN FILTER SAND (SIX INCHES MINIMUM) ABOVE THE FILTER UNTIL ALL UPSTREAM AREAS ARE STABILIZED, WITH SUBSEQUENT REMOVAL.

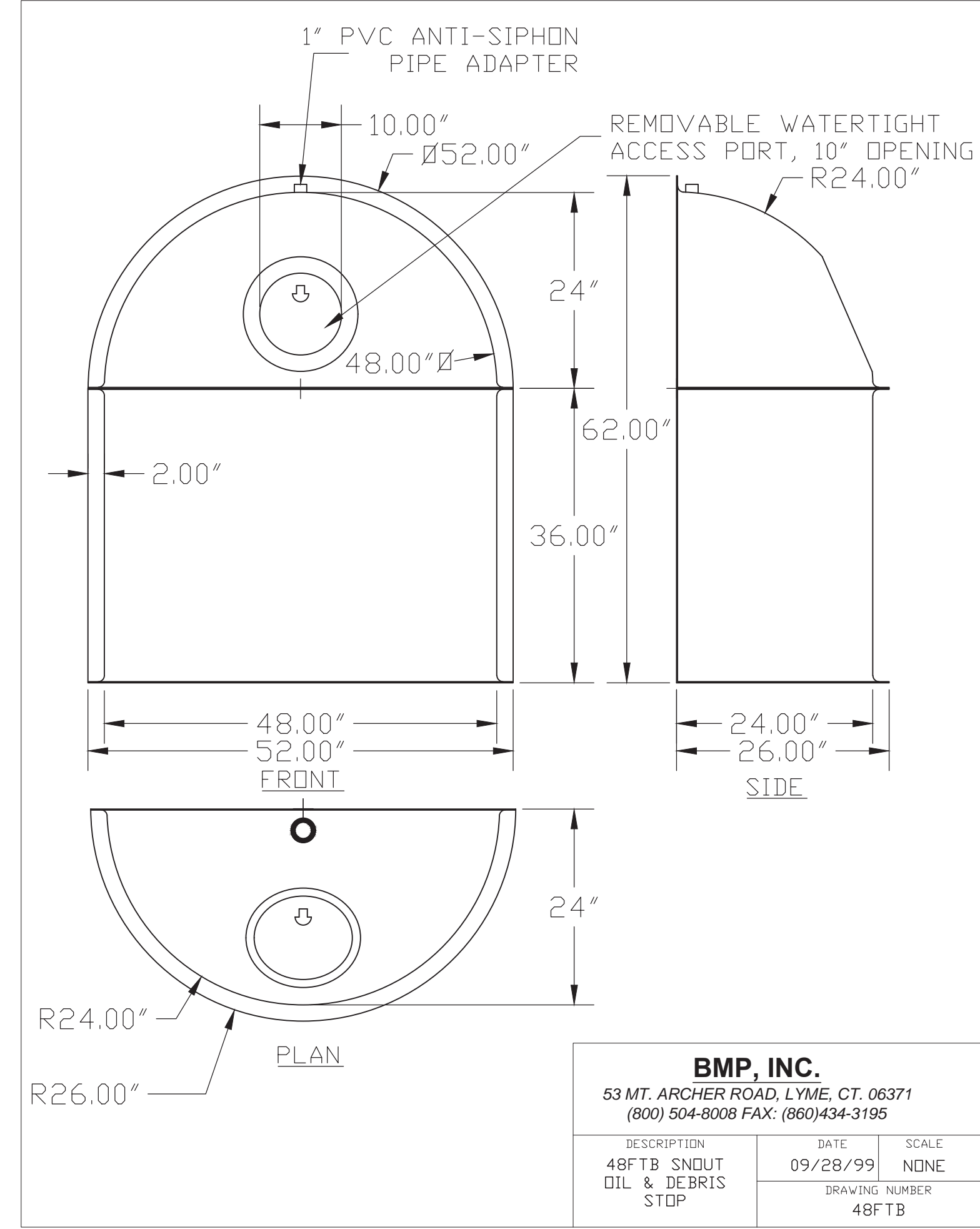
SAND FILTER DETAIL
N.T.S.



DUMPSTER PAD DETAIL
N.T.S.



OUTFALL CONTROL STRUCTURE DETAIL WITH OIL/WATER SEPARATOR
N.T.S.



BMP, INC.		
53 MT. ARCHER ROAD, LYME, CT. 06371 (800) 504-8008 FAX: (860)434-3195		
DESCRIPTION	DATE	SCALE
48FTB SNOUT OIL & DEBRIS STOP	09/28/99	ND/NE
DRAWING NUMBER		
48FTB		

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CHECKED BY AOA
DATE MAY 03, 2019

TITLE
SITE DETAILS

PROJECT NO. 50093979

D2

SHEET NO. SHEET NO.

E
D
C
B
A
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LEGEND

- NEW PAVEMENT
- NEW CONCRETE
- NEW LANDSCAPING

SIGN LEGEND

SEAL

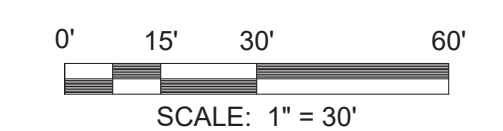
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DATE _____ MAY 03, 2019

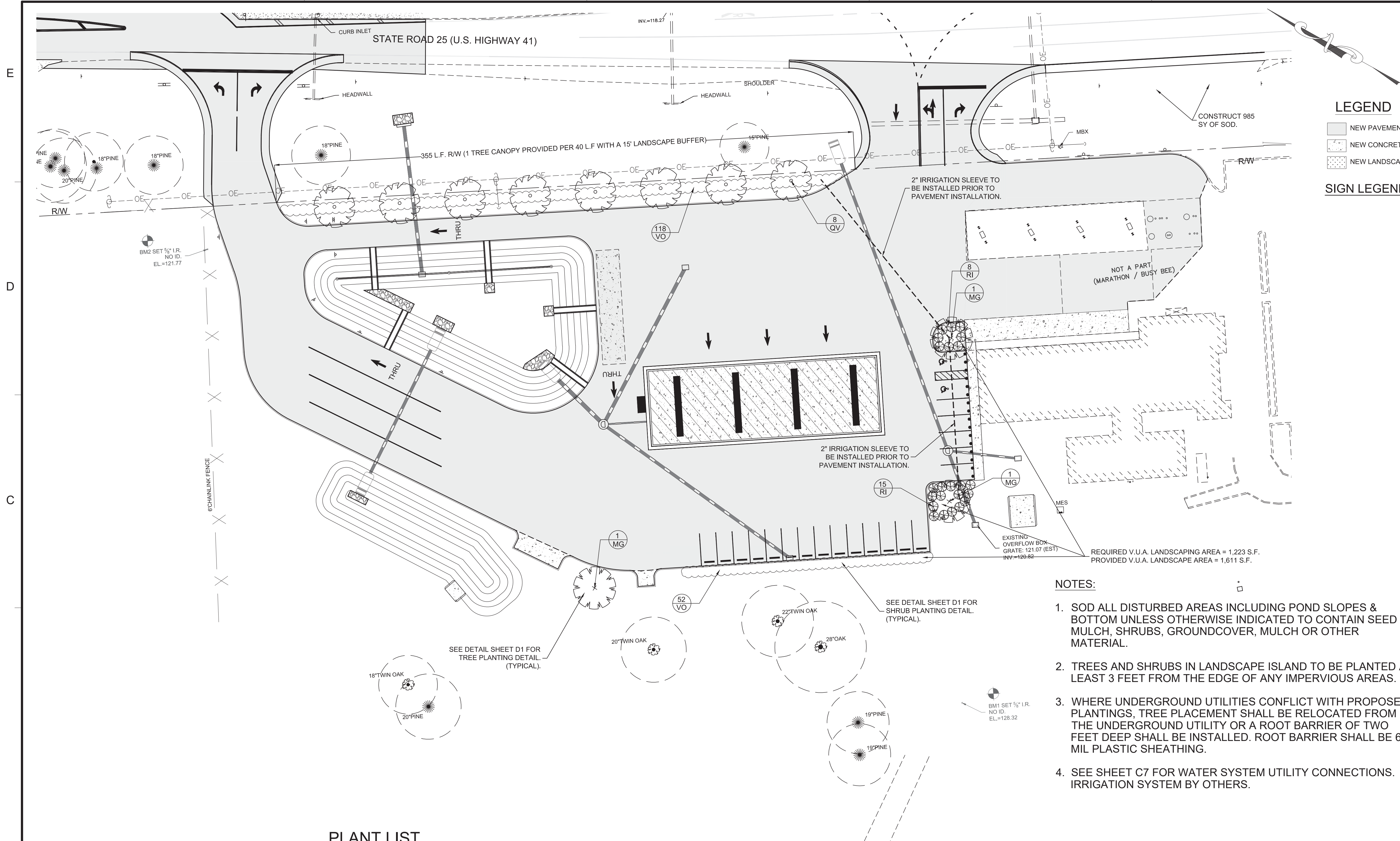
TITLE

LANDSCAPE PLAN

PROJECT NO. 50093979

L1

SHEET NO.



PLANT LIST

	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS
8	LIVE OAK	QUERCUS VIRGINIANA	8' HT. x 4'-5' SPR. - 3" CAL. - 25 GAL.
3	SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA	8' HT. x 4'-5' SPR. - 3" CAL. - 25 GAL.
23	INDIAN HAWTHORN	RHAPHIOLEPSIS INDICA	24" HT. x 12" SPR. - 3 GAL., 2' O.C.
170	SWEET VIBURNUM	VIBURNUM ODORATISSIMUM	24" HT. x 12" SPR. - 3 GAL., 3' O.C.

NOTES:

- SOD ALL DISTURBED AREAS INCLUDING POND SLOPES & BOTTOM UNLESS OTHERWISE INDICATED TO CONTAIN SEED & MULCH, SHRUBS, GROUNDCOVER, MULCH OR OTHER MATERIAL.
- TREES AND SHRUBS IN LANDSCAPE ISLAND TO BE PLANTED AT LEAST 3 FEET FROM THE EDGE OF ANY IMPERVIOUS AREAS.
- WHERE UNDERGROUND UTILITIES CONFLICT WITH PROPOSED PLANTINGS, TREE PLACEMENT SHALL BE RELOCATED FROM THE UNDERGROUND UTILITY OR A ROOT BARRIER OF TWO FEET DEEP SHALL BE INSTALLED. ROOT BARRIER SHALL BE 6 MIL PLASTIC SHEATHING.
- SEE SHEET C7 FOR WATER SYSTEM UTILITY CONNECTIONS. IRRIGATION SYSTEM BY OTHERS.

LEGEND:

- SOUTHERN MAGNOLIA (MG)
- INDIAN HAWTHORN (RI)
- SWEET VIBURNUM (VO)
- LIVE OAK (QV)

Attachment 3

Stormwater Management Plan

Busy Bee #7 Service Area Expansion Stormwater Report



Digitally signed by
Joshua Bryan Baxley
DN: C=US,
E=jbaxley@dewberry.com,
CN=Joshua Bryan Baxley
Date: 2019.05.07
13:23:29-04'00'

JOSHUA BRYAN BAXLEY, P.E.
FL. P.E. #67529

DEWBERRY | 101 N. MONROE STREET, SUITE 710. TALLAHASSEE, FL. 32301 PH. #850.523.0062
CA #: 0008794
PROJECT #50093979



Table of Contents

Introduction	1
Existing Conditions	2
Proposed Conditions.....	4
Calculations.....	4
Conclusions	6

Attachment A: Location Map

Attachment B: Drainage Basin Map

Attachment C USDA Soil Maps

Attachment D: ICPR Stormwater Summary

Attachment E: Side Bank Filter Design

Attachment F: ICPR Node Diagram

Attachment G: ICPR Report (Proposed Condition)

Simulation

Basin

Curve Numbers

Impervious Sets

Node

Drop Structure Link

Rating Link

Pipe Link

Rating Curve

Attachment H: FEMA Map

Attachment I: Geotechnical Report

Attachment J: ICPR Report (Existing Conditions)

Basin

Curve Numbers

Impervious Sets

Node

Attachment K: SWMF O&M Plan

Attachment L: Drawdown Report

Busy Bee No. 7 – Service Area Expansion

Tax ID: 11-3S-16-02063-000 & 11-3S-16-02063-001

Address: 4772 NW US Highway 41, Lake City, FL

Introduction

The subject property is located in Lake City, Florida, approximately 0.25 miles North of I-10 off US Highway 41. Parcel ID 11-3S-16-02063-000 contains a Marathon gas station, convenience store, and a Burger King fast food restaurant. Parcel 11-3S-16-02063-001 is undeveloped. The owner proposes to develop the property in order to expand the existing Marathon station. Improvements include asphalt paving/parking and fuel pumps which will provide 15 service points, concrete sidewalk, and a storm water management facility (SWMF). No building additions are proposed as part of this project. Below is an aerial image of the property (see Figure 1). The property is zoned CHI (commercial, highway interchange).

Currently, Parcel ID 11-3S-16-02063-000 has two (2) driveway accesses. The southernmost driveway will be demolished and the other existing access will be improved as shown on sheet C5 of the plans. Additionally, a northern “Exit Only” driveway will be constructed. See sheet C5 of the plans.

Both parcels are located in FEMA designated flood zone X, per FEMA map 12023C0285D dated 11/2/2018. There are no Karst features on the property.

The stormwater design will deal with the treatment of the new impervious area on site. The SWMF will be designed for a water quality volume calculated from the runoff coefficient multiplied by 1 inch of rainfall over the site drainage basin area or **116,198 square feet**.



Figure 1

Existing Conditions

Parcel 11-3S-16-02063-000 currently drains to an on-site stormwater management facility. The stormwater is discharged into the existing ditch on State Road 25 via a storm sewer pipe. Parcel 11-3S-16-02063-001 is vacant and sheet flows to the existing ditch on State Road 25. The soil composition, based on the NRCS information (see Attachment C), is as follows: Sapelo fine sand, 0 to 2 percent slopes. The geotechnical report in Attachment I gives a more detailed report of the soils on the site.



Proposed Conditions

As part of the design of this project, we will be adding an asphalt paving/parking concrete slab for the fuel pumping stations, concrete pads for the underground fuel storage tanks, a concrete pad for an RV dumping station, and a concrete sidewalk. The stormwater will be directed to the new SWMF via sheet flow and storm sewer piping. The stormwater will be discharged into the existing ditch on State Road 25. The proposed design will provide rate control for the project, while providing enough pre/post volume using the SCS method. A sand filter will be utilized as part of the design to assist in drawing down the treatment volume. A second, smaller stormwater management facility will be utilized for stage control and is connected to the proposed SWMF via 18" HDPE. All storm events up to the 100 year – 240 hour event were accounted for as part of the design. The stormwater summary in Attachment D shows the results of the project on the overall basin.

Calculations

Ex Basin (Onsite)

Pre-Construction CN#: 84

Post Basin

Post Site Construction CN#: 96

Treatment Volume:

The stormwater management facility has been designed to treat the first inch of runoff from the **116,198 square feet** basin area which provide a volume of **7,622 cubic feet** at an elevation of **120.62 feet**. We are providing a treatment volume elevation of **120.75 feet** for this project which provides additional treatment volume for this SWMF.

Treatment Calculations:

Treatment from 1 inch of run-off

Treatment Volume=Cx1.0"*Area

C=0.79

A=116,198 square feet

Treatment Volume= (0.79) x (1-inch) x (116,198 square feet) x (1ft/12inches) =**7,622 cf**

Treatment from 0.5 inches of run-off

Treatment Volume=0.5"*Area

A=116,198 square feet

Treatment Volume= (0.5-inch) x (116,198 square feet) x (1ft/12inches) =**4,842 cf**

The Treatment elevation of the project is **120.62 feet**

Based on Attachment E (Side Bank Filter Calculation), the pond draws down the water quality volume in **35.08 hours**, which is less than the 36 hours required by the water management district.

The pre/post condition rates are analyzed at the BNDY node, which is located at the ditch in the right-of-way on SR 25.

The table in Attachment D compares inflows and outflows at the BNDY node for each storm event. This maximum rate (100 year - 1 hour) at the BNDY node is **6.91 cubic feet per second** in the post condition and **11.32 cubic feet per second** in the pre-condition. The pre-development rates are equal to or exceed the post-development rates at the BNDY node for all 100 year storm events.

A brief description of the attachments is as follows:

Attachment A: Location Map - The Location Map identifies the project location.

Attachment B: Drainage Basin Map - The Drainage Basin Map identifies all areas that contribute stormwater flow to the Facilities. Also include the offsite basins contributing to the projects area.

Attachment C: USDA Soil Maps - This attachment show the soil types located within the project area.

Attachment D: ICPR Stormwater Summary - This report provides summary ICPR output for the design of the pond and maximum rates and stages for the SITE-POND-POST, OUTFALL and BNDY nodes.

Attachment E: Side Bank Filter Design -Design of the side bank filter

Attachment F: ICPR Node Diagram - This report shows the locations of nodes, basins and links in the ICPR model.

Attachment G: ICPR Report (Proposed Conditions) - This report provides post-condition ICPR output for all nodes, including rates and stages for each design storm.

Attachment H: FEMA Map - This Map is to show the project relation to the current flood zones.

Attachment I: Geotechnical Report - This report provides information on the soil tests and borings conducted on-site.

Attachment J: ICPR Report (Existing Conditions) - This report provides pre-condition ICPR output for all nodes, including rates and stages for each design storm.

Attachment K: SWMF O&M Plan - Includes the proposed operation and maintenance plan for the new SWMF.

Attachment L: Drawdown Report - Includes ICPR output report showing stage summary chart over time to confirm pond draws down half of design volume within 7 days and the total volume within 30 days.


Conclusions

The proposed SWMF's are designed to meet the current code requirements for Columbia County and SRWMD for the existing basin and should function properly for all design storms mentioned in this report.

Attachment A

Location Map




Dewberry
 Dewberry Engineers Inc.
 101 N. MONROE STREET
 SUITE 710
 TALLAHASSEE, FL 32301
 850.354.5181
 CA# 8794

TITLE	DATE	REVISION	SHEET NO.
VICINITY MAP	12/20/2018	NA	S1
PROJECT	PROJ. NO.	DRAWING NO.	
BUSY BEE NO. 7 SERVICE AREA EXPANSION	50093979	NA	

Attachment B

Drainage Basin Map



Dewberry Engineers Inc.
101 N. Monroe St.
Suite 710
Tallahassee, FL 32301
850.523.0062

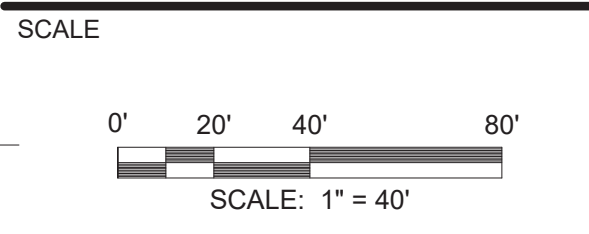
BUSY BEE #7
SERVICE AREA EXPANSION
JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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CHECKED BY _____ AOA

DATE _____ APRIL 30, 2019

TITLE
**PRE & POST
BASIN
MAPS**

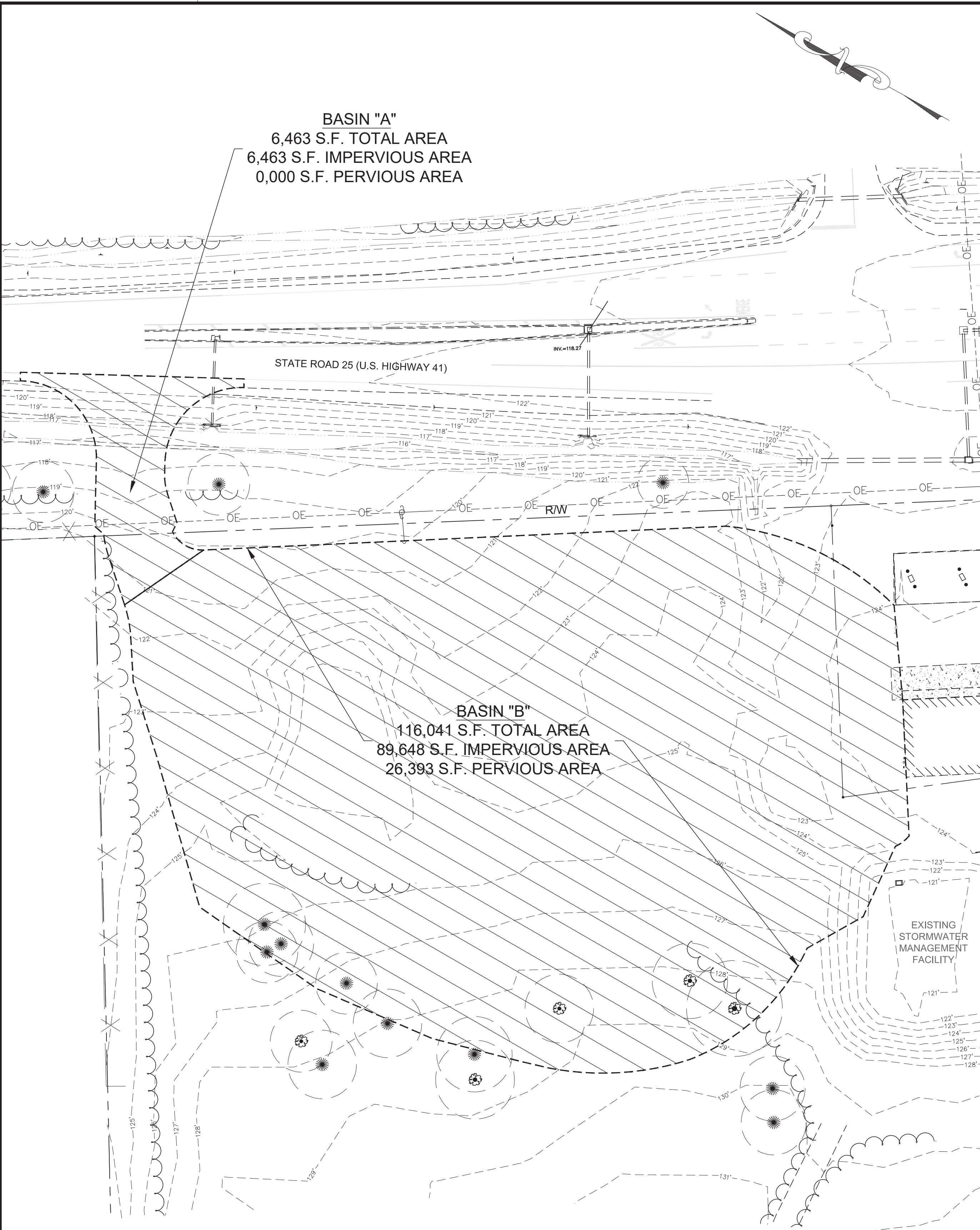
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C15

SHEET NO.



PRE BASIN MAP



POST BASIN MAP

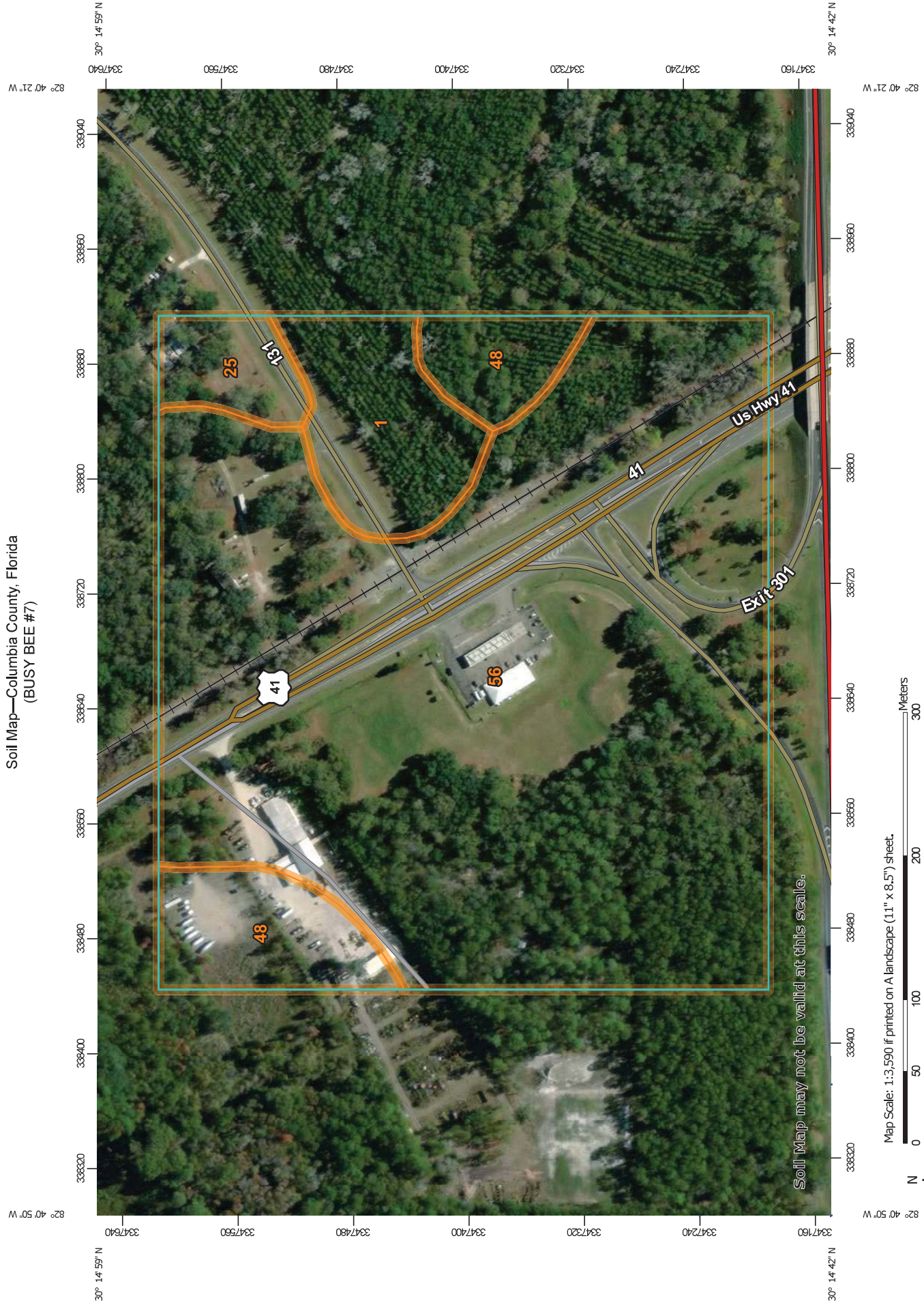
BASIN "A"
6,463 S.F. TOTAL AREA
6,463 S.F. IMPERVIOUS AREA
0,000 S.F. PERVIOUS AREA

BASIN "B"
116,041 S.F. TOTAL AREA
89,648 S.F. IMPERVIOUS AREA
26,393 S.F. PERVIOUS AREA

Attachment C

USDA Soil Maps







































Soil Map—Columbia County, Florida
(BUSY BEE #7)



Map Scale: 1:3,590 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
-  Soils
-  Soil Map Unit Polygons
-  Soil Map Unit Lines
-  Soil Map Unit Points
- Special Point Features**
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads
- Background**
-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Columbia County, Florida
Survey Area Data: Version 14, Sep 10, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 26, 2014—Dec 9, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Albany fine sand, 0 to 5 percent slopes	3.7	7.6%
25	Goldsboro loamy fine sand, 2 to 5 percent slopes	1.6	3.3%
48	Pelham fine sand, 0 to 2 percent slopes	4.5	9.2%
56	Sapelo fine sand, 0 to 2 percent slopes	39.3	79.9%
Totals for Area of Interest		49.2	100.0%

Attachment D

ICPR Stormwater Summary

ICPR Stormwater Calculation Summary for

Busy Bee #7

Rainfall Depth for Each Storm (inches)

Duration (hours)	Return Frequency (years)			
	3	10	25	100
1	2.5	3.1	3.5	4.2
2	2.6	3.7	4.3	5.1
4	3.1	4.4	5.1	5.1
8	3.5	5.1	6.0	7.4
24	4.6	6.7	7.9	9.8
72	5.8	8.3	10.0	12.4
168	7.3	10.1	12.3	14.0
240	8.0	11.8	14.0	16.1

Existing Conditions Site Discharge

Duration (hours)	Runoff Rates (cfs)					
	Return Frequency (years)					
	3	10	25	100	50	100
1	5.080	5.770	7.020	8.480	9.610	11.320
2	3.500	5.070	6.060	7.580	8.610	9.650
4	2.500	3.380	4.160	5.120	5.510	6.440
8	2.720	3.860	4.580	5.610	6.200	7.200
24	0.920	1.190	1.530	1.280	2.070	2.410
72	0.700	0.870	1.050	1.870	1.450	1.610
168	0.550	0.690	0.780	0.950	1.090	1.090
240	0.700	0.890	1.060	1.270	1.360	1.470

5.080 5.770 7.020 8.480 9.610 11.320

- Notes:**
1. The critical duration storms are shown in bold.
 2. Rates are max inflow to node Pre Node

Proposed Rate Control Facility Design						
Stage vs. Area/Volume for Treatment						
Elev.	Area (S.F.)	Area (Ac.)	Inc. Vol.	Sum. Vol.	Vol. Ac-ft	Infil (cfs)
119	3,618	0.08306	0	0	0.000	0.01256
120	4,886	0.11217	4,194	4,194	0.096	0.01697
121	6,296	0.14454	5,520	9,714	0.223	0.02186
122	7,808	0.17925	6,968	16,682	0.383	0.02711
123	9,420	0.21625	8,515	25,198	0.578	0.03271
124	11,133	0.25558	10,162	35,360	0.812	0.03866

1. Treatment Ele.= 120.62 ft
2. Treatment Volume = 7,621.59 cf
3. Estimated Infiltration rate 0.1500 in/hr

Drainage Area: 2.668 Ac.

This is for treatment of the new area.

Treatment Volume Calculation (1.0" of Treatment)

Treatment Volume= Cx1inchx Contributing Area C= 0.79
 Area Draining to Pond = 116,198 square feet
 Treatment Vol. Rqd. = 7,622 cubic feet
 Treatment Vol provided at El = 120.62 feet

Treatment Volume Calculation (0.5" of Treatment)

Treatment Volume= 0.5 inx Contributing Area
 Area Draining to Pond = 116,198 square feet
 Treatment Vol. Rqd. = 4,842 cubic feet
 Treatment Vol provided at El = 120.15 feet

Post-development - Pond Stages (Elevation, ft)					
Duration (hours)	Return Frequency (years)				
	3	5	10	25	100
1	121.94	122.09	122.32	122.54	122.90
2	121.71	122.10	122.29	122.53	122.82
4	121.86	122.18	122.36	122.55	122.76
8	121.81	122.21	122.40	122.61	122.87
24	121.39	121.51	121.64	121.54	122.03

121.940 122.210 122.400 122.610 122.900

- Notes:**
1. The maximum elevations are shown in bold.
 2. Elevations are from node Site-Pond-Post.
 3. Maximum Pond Elevation occurs at El 122.90

Post Conditions Site Discharge						
Runoff Rates (cfs)						
Duration (hours)	Return Frequency (years)					
	3	5	10	25	50	100
1	1.920	2.220	3.170	4.420	5.400	6.910
2	1.630	2.260	3.030	4.380	5.330	6.300
4	1.830	2.560	3.390	4.500	4.910	5.880
8	1.760	2.690	3.630	4.900	5.580	6.690
24	0.970	1.190	1.510	1.270	1.840	2.050
72	0.720	0.880	1.050	1.720	1.440	1.580
168	0.550	0.680	0.770	0.940	1.080	1.080
240	0.710	0.890	1.060	1.270	1.360	1.460

1.920 2.690 3.630 4.900 5.580 6.910

- Notes:**
1. The critical duration storms are shown in bold.
 2. Rates are max total outflow from Node Site-Pond-Post

Pre/Post-Development Site Comparison						
Site Discharge (cfs)						
Duration	Return Frequency (years)					
(hours)	3	5	10	25	50	100
1 - Pre	5.080	5.770	7.020	8.480	9.610	11.320
1 - Post	1.920	2.220	3.170	4.420	5.400	6.910
+ / (-)	(3.16)	(3.55)	(3.85)	(4.06)	(4.21)	(4.41)
2 - Pre	3.500	5.070	6.060	7.580	8.610	9.650
2 - Post	1.630	2.260	3.030	4.380	5.330	6.300
+ / (-)	(1.87)	(2.81)	(3.03)	(3.20)	(3.28)	(3.35)
4 - Pre	2.500	3.380	4.160	5.120	5.510	6.440
4 - Post	1.830	2.560	3.390	4.500	4.910	5.880
+ / (-)	(0.67)	(0.82)	(0.77)	(0.62)	(0.60)	(0.56)
8 - Pre	2.720	3.860	4.580	5.610	6.200	7.200
8 - Post	1.760	2.690	3.630	4.900	5.580	6.690
+ / (-)	(0.96)	(1.17)	(0.95)	(0.71)	(0.62)	(0.51)
24 - Pre	0.920	1.190	1.530	1.280	2.070	2.410
24 - Post	0.970	1.190	1.510	1.270	1.840	2.050
+ / (-)	0.05	0.00	(0.02)	(0.01)	(0.23)	(0.36)
72 - Pre	0.700	0.870	1.050	1.870	1.450	1.610
72 - Post	0.720	0.880	1.050	1.720	1.440	1.580
+ / (-)	0.02	0.01	0.00	(0.15)	(0.01)	(0.03)
168 - Pre	0.550	0.690	0.780	0.950	1.090	1.090
168 - Post	0.550	0.680	0.770	0.940	1.080	1.080
+ / (-)	0.00	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
240 - Pre	0.700	0.890	1.060	1.270	1.360	1.470
240 - Post	0.710	0.890	1.060	1.270	1.360	1.460
+ / (-)	0.01	0.00	0.00	0.00	0.00	(0.01)

Notes: 1. Peak discharge for each return frequency is shown in bold.

Runoff Curve Number and Runoff					
Project	Busy Bee #7		Designed By	J.B.B	
Locations	Columbia County, FL		Checked	A.O.A	
Pre Development					
Post Development					
Soil Name*	Hydraylic Group	Decription	CN	Area (Ac.)	Product CNxArea
		Pervious	0.2	0.47	0.0944
		Impervious Area	0.9	1.90	1.71
		POND	1	0.29	0.294
					0
					0
					0
					0
					0
					0
					0
Total				2.67	2.0984

$$C \text{ Number} = \frac{\text{total Product}}{\text{Total Area}} = \boxed{0.79}$$

*33= Orangeburg

Runoff Curve Number and Runoff

Project	Busy Bee #7	Designed	J.B.B		
Locations	Columbia County, FL	Checked	A.O.A		
Pre Development	x				
Post Development					
Soil Name*	Hydraylic Group	Decription	CN	Area (Ac.)	Product CNxArea
	A	Pervious	84	2.67	224.28
					0
					0
					0
					0
					0
Total				2.67	224.28

Curve Number= $\frac{\text{total Product}}{\text{Total Area}}$ = 84.00

Use CN 84

Runoff Curve Number and Runoff

Project	Busy Bee #7	Designed By	J.B.B		
Locations	Columbia County, FL	Checked	A.O.A		
Pre Development					
Post Development	x				
Soil Name*	Hydraylic Group	Decription	CN	Area (Ac.)	Product CNxArea
	B	Pervious	84	0.47	39.648
	B	Impervious Area	98	1.90	186.2
	B	POND	100	0.29	29.4
					0
					0
					0
					0
					0
					0
					0
			Total	2.67	255.248

116,130.96

Curve Number= $\frac{\text{total Product}}{\text{Total Area}}$ = 95.74

Use CN 96.00

*33= Orangeburg

- 247
- 248
- 249
- 250
- 251

Attachment E

Side Bank Filter Design

Side Bank Filter Design

Busy Bee #7

Pond Data

Hyd. Con. "K" Value: 2.50 ft/hr
 Top of Treatment Elev: 124.00 ft
 Pond Bottom Elev: 119.00 ft
 Underdrain Invert Elev: 118.00 ft
 Pond Side Slope (h/v): 4

Pipe Data

Underdrain Length: 120 ft 36.576 m
 Pipe Diameter: 6.00 in
 Pipe Slope: 0.005 ft/ft
 Max Allowable Flow: 0.51 cfs
 Max Underdrain Flow: 0.25 cfs
 Pipe F.S.: 2.05

*Underdrain invert elevation must be below Pond Bottom

* Max allowable flow calculated using Manning's equation with n= 0.010

Stage	Depth	Incr. Head	Surface Area	Incr. Vol.	y	x	L	Flow length Thru Filter	Hydraulic Gradient	Area of Filter	Flow	Average Flow	Incr. Time	Total Time
(ft)	(ft)	(ft)	(sf)	(cf)	(ft)	(ft)		(ft)	(ft/ft)	(sf)	(cfs)	(cfs)	(hr)	(hr)
124	5.00		11133.00		6.00	0.01	6.000	2.00	1.0	360.0	0.250			
		1		10162								0.229	12.32	12.32
123	4.00		9420.00		5.00	0.01	5.000	2.00	1.0	300.0	0.208			
		1		8515								0.188	12.62	24.93
122	3.00		7808.00		4.00	0.01	4.000	2.00	1.0	240.0	0.167			
		1		6968								0.146	13.27	38.21
121	2.00		6296.00		3.00	0.01	3.000	2.00	1.0	180.0	0.125			
		1		5520								0.104	14.72	52.93
120	1.00		4886.00		2.00	1.28	2.373	2.00	1.0	120.0	0.083			
		1		4252								0.046	25.89	78.82
119	0.00		3618.00		1.00	5.28	5.371	5.37	0.2	60.0	0.008			
				0								0.000	0.00	0.00
	0.00				0.00	0.00	0.000	0.00	0.0	0.0	0.000			

Drawdown time: 78.82 hrs

bankfilter3
Pond Filter

Busy Bee #7

Pond Data

Hyd. Con. "K" Value: 2.50 ft/hr
 Top of Treatment Elev: 120.62 ft
 Pond Bottom Elev: 119.00 ft
 Underdrain Invert Elev: 118.00 ft
 Pond Side Slope (h/v): 4

Pipe Data

Underdrain Length: 120 ft 36.576 m
 Pipe Diameter: 6.00 in
 Pipe Slope: 0.005 ft/ft
 Max Allowable Flow: 0.51 cfs
 Max Underdrain Flow: 0.11 cfs
 Pipe F.S.: 4.69

*Underdrain invert elevation must be below Pond Bottom

* Max allowable flow calculated using Manning's equation with n= 0.010

Stage	Depth	Incr. Head	Surface Area	Incr. Vol.	y	x	L	Flow length Thru Filter	Hydraulic Gradient	Area of Filter	Flow	Average Flow	Incr. Time	Total Time
(ft)	(ft)	(ft)	(sf)	(cf)	(ft)	(ft)		(ft)	(ft/ft)	(sf)	(cfs)	(cfs)	(hr)	(hr)
120.62	1.62		5768.00		2.62	0.01	2.620	2.00	1.0	157.2	0.109			
		0.62		3266								0.096	9.43	9.43
120	1.00		4886.00		2.00	1.28	2.373	2.00	1.0	120.0	0.083			
		1		4194								0.046	25.54	34.96
119	0.00		3618.00		1.00	5.28	5.371	5.37	0.2	60.0	0.008			
				0								0.000	0.00	0.00
	0.00				0.00	0.00	0.000	0.00	0.0	0.0	0.000			
				0								0.000	0.00	0.00
	0.00				0.00	0.00	0.000	0.00	0.0	0.0	0.000			
				0								0.000	0.00	0.00
	0.00				0.00	0.00	0.000	0.00	0.0	0.0	0.000			
				0								0.000	0.00	0.00
	0.00				0.00	0.00	0.000	0.00	0.0	0.0	0.000			

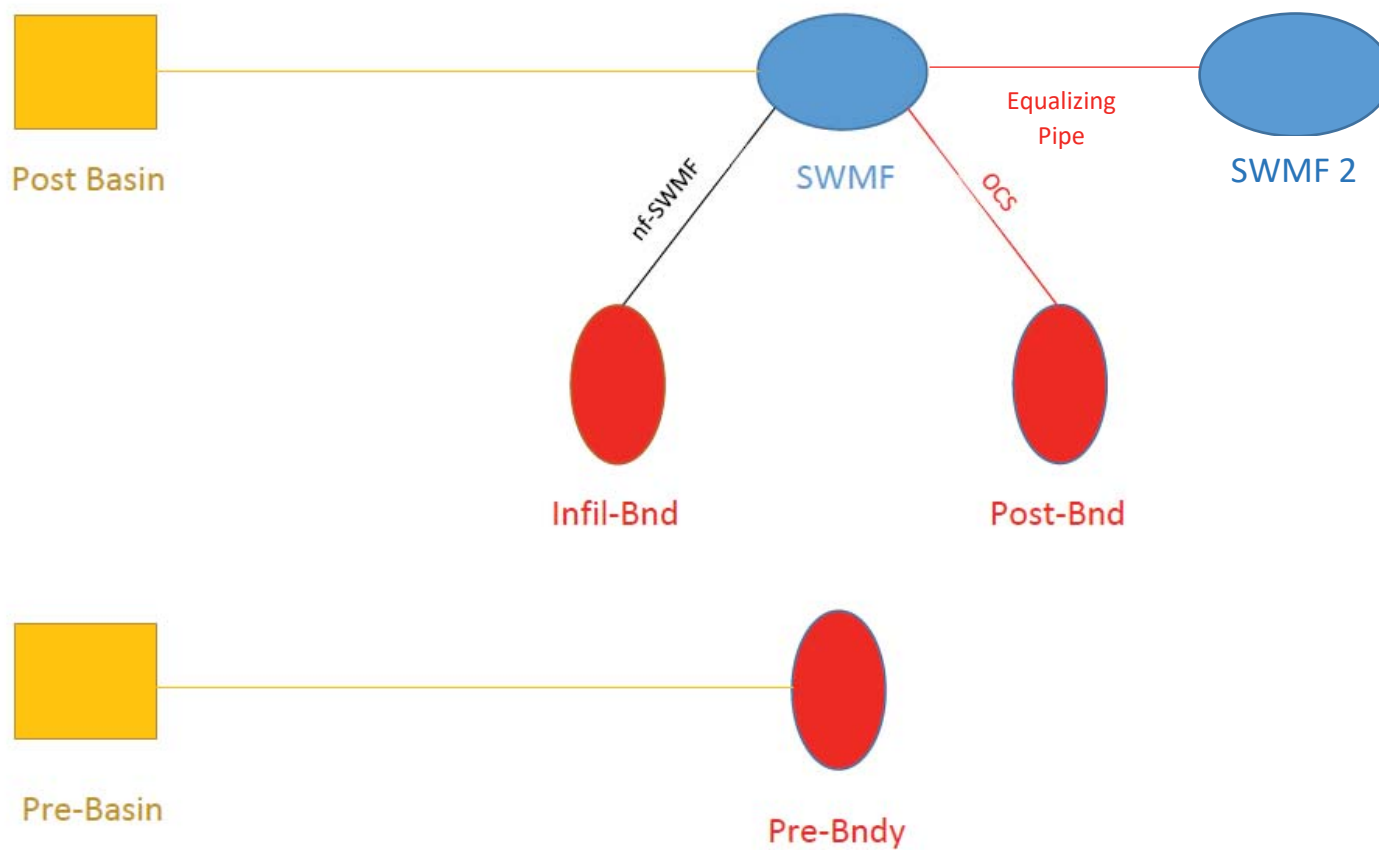
Drawdown time: 34.96 hrs

Less than 36 hours requirement

Attachment F

ICPR Node Diagram

ICPR NODAL DIAGRAM



Attachment G

ICPR Report (Proposed Conditions)

Simulation: 003Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:00:35 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 2.50 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:00:37 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 2.64 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 003Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:00:40 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 3.08 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:00:45 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 3.52 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 003Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:00:54 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 4.56 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:01:17 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 5.80 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 003Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:02:04 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 7.30 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:03:52 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 8.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:06:18 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 2.70 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy
Energy Switch (2D): Energy	

Comment:

Simulation: 005Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:06:20 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 3.30 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:06:23 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 3.80 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 005Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:06:30 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 4.50 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:06:39 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 5.52 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 005Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:07:02 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 7.00 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:07:51 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 9.00 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 005Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:09:58 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 10.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:12:24 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 3.05 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:12:26 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 3.70 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:12:30 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 4.40 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:12:35 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 5.12 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:12:45 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 6.72 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy
Energy Switch (2D): Energy	

Comment:

Simulation: 010Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:13:26 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 8.30 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:14:17 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 10.10 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:16:03 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 11.80 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:18:37 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 3.45 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy
Energy Switch (2D): Energy	

Comment:

Simulation: 025Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:18:40 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 4.30 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:18:43 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 5.12 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:18:49 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 6.00 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y0172H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:18:59 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-72
	Rainfall Amount: 10.00 in
Edge Length Option: Automatic	Storm Duration: 72.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y024H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:19:49 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-24
 Rainfall Amount: 7.92 in
 Storm Duration: 24.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:20:14 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 12.30 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:22:05 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 14.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:24:43 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 3.75 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:24:46 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 4.70 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:24:49 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 5.40 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:24:55 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 6.50 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:25:05 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	50.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 8.64 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:25:31 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 11.25 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:26:25 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 14.00 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy
Energy Switch (2D): Energy	

Comment:

Simulation: 050Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:28:08 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 15.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y001H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:31:13 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 4.20 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:31:15 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight: 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 5.10 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y004H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:31:19 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 6.08 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:31:24 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	16.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 7.36 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y024H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:31:33 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 9.84 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy
Energy Switch (2D): Energy	

Comment:

Simulation: 100Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:31:58 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 12.40 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y168H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:32:50 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 14.00 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:34:34 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 16.10 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Manual Basin: Post Basin

Scenario: Icp3
 Node: SWMF
 Hydrograph Method: NRCS Unit Hydrograph
 Infiltration Method: Curve Number
 Time of Concentration: 10.0000 min
 Max Allowable Q: 999999.00 cfs
 Time Shift: 0.0000 hr
 Unit Hydrograph: UH484
 Peaking Factor: 484.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
0.4720	PERVIOUS	D			
1.9000	IMPERVIOUS	D			
0.2900	POND	D			

Comment:

Curve Number: Icp3 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
IMPERVIOUS	D	98.0
PERVIOUS	D	84.0
POND	D	100.0

Impervious: Icp3 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia Impervious [in]	Ia Pervious [in]
IMPERVIOUS	0.00	0.00	0.00	0.000	0.000
PERVIOUS	0.00	0.00	0.00	0.000	0.000
POND	0.00	0.00	0.00	0.000	0.000

Node: Post-Bnd

Scenario: Icp3
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 117.00 ft
 Warning Stage: 120.00 ft
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	117.00

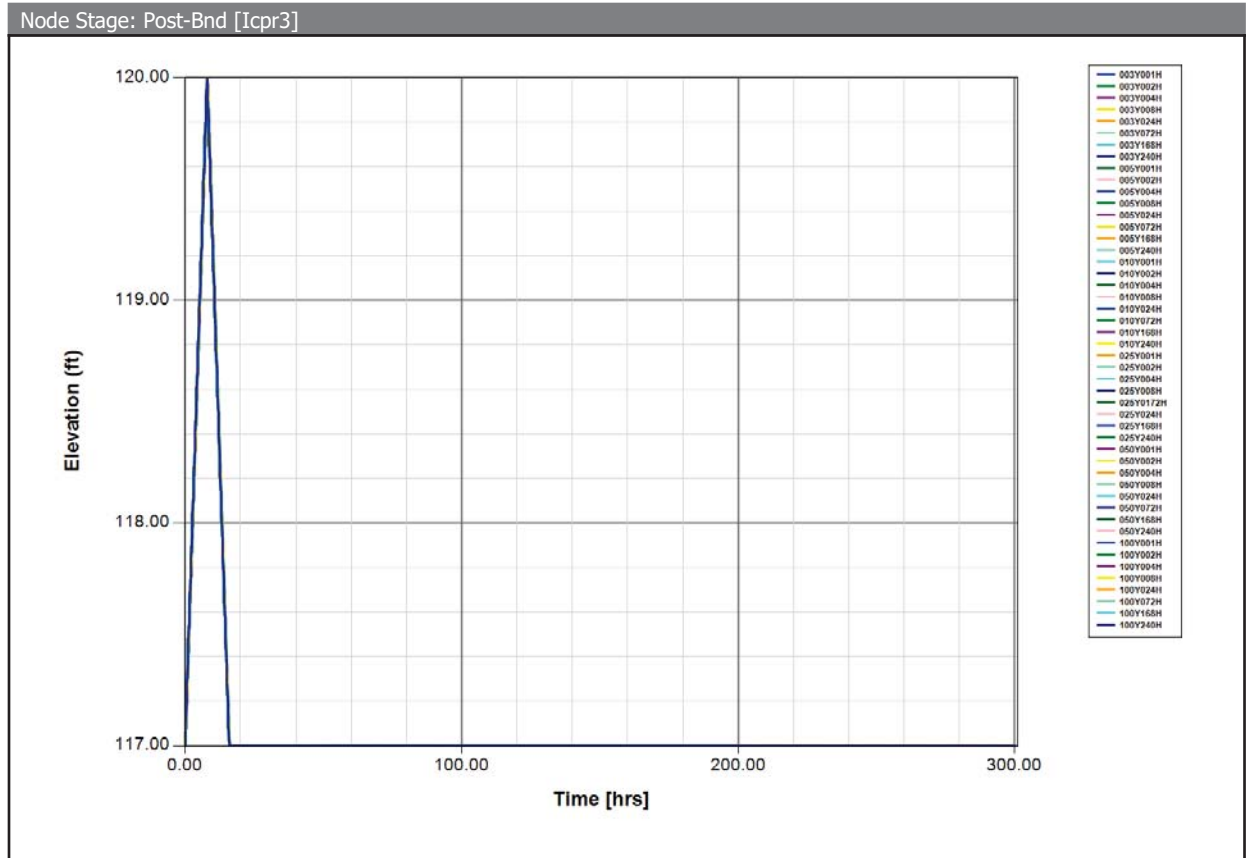
Year	Month	Day	Hour	Stage [ft]
0	0	0	8.0000	120.00
0	0	0	16.0000	117.00

Comment:

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Post-Bnd	003Y001H	120.00	118.13	0.0019	1.94	0.00	0
Post-Bnd	003Y002H	120.00	118.88	0.0051	1.65	0.00	0
Post-Bnd	003Y004H	120.00	120.00	0.0063	1.85	0.00	0
Post-Bnd	003Y008H	120.00	120.00	0.0063	1.79	0.00	0
Post-Bnd	003Y024H	120.00	120.00	0.0063	1.00	0.00	0
Post-Bnd	003Y072H	120.00	120.00	0.0063	0.75	0.00	0
Post-Bnd	003Y168H	120.00	120.00	0.0063	0.57	0.00	0
Post-Bnd	003Y240H	120.00	120.00	0.0063	0.73	0.00	0
Post-Bnd	005Y001H	120.00	118.13	0.0016	2.24	0.00	0
Post-Bnd	005Y002H	120.00	118.88	0.0037	2.29	0.00	0
Post-Bnd	005Y004H	120.00	120.00	0.0063	2.58	0.00	0
Post-Bnd	005Y008H	120.00	120.00	0.0063	2.72	0.00	0
Post-Bnd	005Y024H	120.00	120.00	0.0063	1.21	0.00	0
Post-Bnd	005Y072H	120.00	120.00	0.0063	0.91	0.00	0
Post-Bnd	005Y168H	120.00	120.00	0.0063	0.71	0.00	0
Post-Bnd	005Y240H	120.00	120.00	0.0063	0.92	0.00	0
Post-Bnd	010Y001H	120.00	118.13	0.0013	3.19	0.00	0
Post-Bnd	010Y002H	120.00	118.88	0.0034	3.05	0.00	0
Post-Bnd	010Y004H	120.00	120.00	0.0063	3.41	0.00	0
Post-Bnd	010Y008H	120.00	120.00	0.0063	3.66	0.00	0
Post-Bnd	010Y024H	120.00	120.00	0.0063	1.54	0.00	0
Post-Bnd	010Y072H	120.00	120.00	0.0063	1.07	0.00	0
Post-Bnd	010Y168H	120.00	120.00	0.0063	0.79	0.00	0
Post-Bnd	010Y240H	120.00	120.00	0.0063	1.09	0.00	0
Post-Bnd	025Y001H	120.00	118.13	0.0011	4.45	0.00	0
Post-Bnd	025Y002H	120.00	118.88	0.0034	4.40	0.00	0
Post-Bnd	025Y004H	120.00	120.00	0.0063	4.52	0.00	0
Post-Bnd	025Y008H	120.00	120.00	0.0063	4.92	0.00	0
Post-Bnd	025Y0172H	120.00	120.00	0.0063	1.30	0.00	0
Post-Bnd	025Y024H	120.00	120.00	0.0063	1.74	0.00	0
Post-Bnd	025Y168H	120.00	120.00	0.0063	0.97	0.00	0
Post-Bnd	025Y240H	120.00	120.00	0.0063	1.29	0.00	0
Post-Bnd	050Y001H	120.00	118.13	0.0011	5.43	0.00	0
Post-Bnd	050Y002H	120.00	118.88	0.0029	5.35	0.00	0
Post-Bnd	050Y004H	120.00	120.00	0.0063	4.93	0.00	0
Post-Bnd	050Y008H	120.00	120.00	0.0063	5.60	0.00	0
Post-Bnd	050Y024H	120.00	120.00	0.0063	1.86	0.00	0

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Post-Bnd	050Y072H	120.00	120.00	0.0063	1.47	0.00	0
Post-Bnd	050Y168H	120.00	120.00	0.0063	1.10	0.00	0
Post-Bnd	050Y240H	120.00	120.00	0.0063	1.38	0.00	0
Post-Bnd	100Y001H	120.00	118.13	0.0010	6.93	0.00	0
Post-Bnd	100Y002H	120.00	118.88	0.0028	6.32	0.00	0
Post-Bnd	100Y004H	120.00	120.00	0.0063	5.91	0.00	0
Post-Bnd	100Y008H	120.00	120.00	0.0063	6.71	0.00	0
Post-Bnd	100Y024H	120.00	120.00	0.0063	2.08	0.00	0
Post-Bnd	100Y072H	120.00	120.00	0.0063	1.60	0.00	0
Post-Bnd	100Y168H	120.00	120.00	0.0063	1.10	0.00	0
Post-Bnd	100Y240H	120.00	120.00	0.0063	1.49	0.00	0



Node: SWMF
 Scenario: Icpr3

Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 119.00 ft
 Warning Stage: 123.00 ft

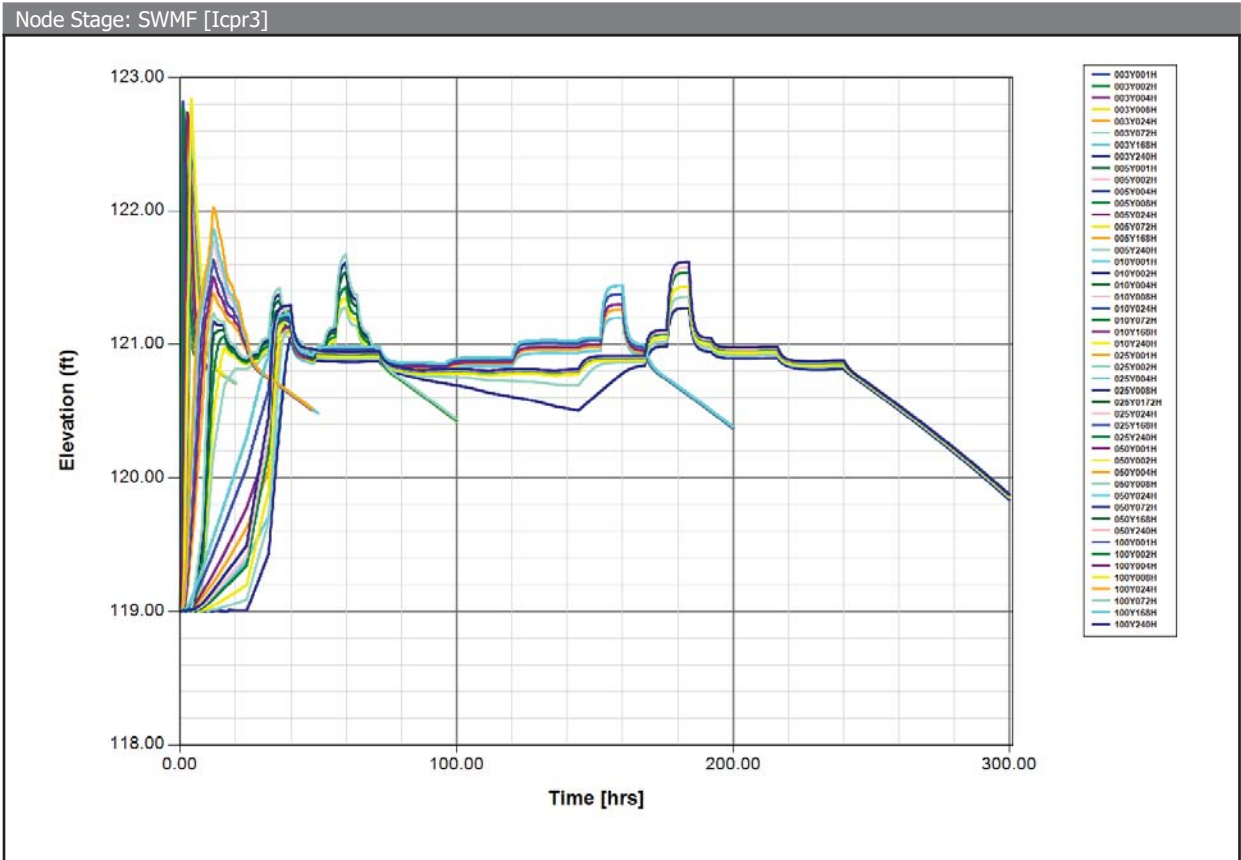
Stage [ft]	Area [ac]	Area [ft2]
119.00	0.0830	3616
120.00	0.1121	4885
121.00	0.1442	6280
122.00	0.1813	7897
123.00	0.2157	9395
124.00	0.2551	11113

Comment: PROPOSED POND

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
SWMF	003Y001H	123.00	121.94	0.0010	12.05	3.64	7871
SWMF	003Y002H	123.00	121.71	0.0010	7.64	2.43	7503
SWMF	003Y004H	123.00	121.86	0.0010	3.98	1.93	7749
SWMF	003Y008H	123.00	121.81	0.0010	3.78	2.03	7669
SWMF	003Y024H	123.00	121.39	0.0010	1.17	1.02	6978
SWMF	003Y072H	123.00	121.28	0.0010	0.76	0.75	6790
SWMF	003Y168H	123.00	121.20	0.0010	0.57	0.57	6655
SWMF	003Y240H	123.00	121.27	0.0010	0.73	0.73	6779
SWMF	005Y001H	123.00	122.09	0.0010	13.13	4.16	8098
SWMF	005Y002H	123.00	122.10	0.0010	9.75	3.79	8119
SWMF	005Y004H	123.00	122.18	0.0010	4.99	2.61	8232
SWMF	005Y008H	123.00	122.21	0.0010	4.90	2.94	8277
SWMF	005Y024H	123.00	121.51	0.0010	1.43	1.24	7173
SWMF	005Y072H	123.00	121.35	0.0010	0.92	0.91	6908
SWMF	005Y168H	123.00	121.26	0.0010	0.71	0.71	6760
SWMF	005Y240H	123.00	121.35	0.0010	0.92	0.92	6918
SWMF	010Y001H	123.00	122.32	0.0010	15.03	5.10	8418
SWMF	010Y002H	123.00	122.29	0.0010	11.04	4.44	8379
SWMF	010Y004H	123.00	122.36	0.0010	5.84	3.53	8478
SWMF	010Y008H	123.00	122.40	0.0010	5.61	3.87	8538
SWMF	010Y024H	123.00	121.64	0.0010	1.76	1.56	7389
SWMF	010Y072H	123.00	121.43	0.0010	1.10	1.08	7039
SWMF	010Y168H	123.00	121.30	0.0010	0.79	0.79	6825
SWMF	010Y240H	123.00	121.43	0.0010	1.09	1.09	7049
SWMF	025Y001H	123.00	122.54	0.0010	17.20	6.35	8704
SWMF	025Y002H	123.00	122.53	0.0010	12.96	5.29	8693
SWMF	025Y004H	123.00	122.55	0.0010	6.86	4.64	8722
SWMF	025Y008H	123.00	122.61	0.0010	6.62	5.13	8818

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft ²]
SWMF	025Y0172H	123.00	121.54	0.0010	1.32	1.30	7229
SWMF	025Y024H	123.00	121.78	0.0010	2.08	1.79	7614
SWMF	025Y168H	123.00	121.38	0.0010	0.97	0.97	6954
SWMF	025Y240H	123.00	121.54	0.0010	1.29	1.29	7224
SWMF	050Y001H	123.00	122.69	0.0010	18.84	7.28	8931
SWMF	050Y002H	123.00	122.68	0.0010	14.25	5.79	8914
SWMF	050Y004H	123.00	122.62	0.0010	7.26	5.05	8820
SWMF	050Y008H	123.00	122.71	0.0010	7.19	5.81	8968
SWMF	050Y024H	123.00	121.87	0.0010	2.28	1.92	7762
SWMF	050Y072H	123.00	121.61	0.0010	1.49	1.47	7341
SWMF	050Y168H	123.00	121.44	0.0010	1.10	1.10	7063
SWMF	050Y240H	123.00	121.58	0.0010	1.38	1.38	7286
SWMF	100Y001H	123.00	122.90	0.0010	21.29	8.58	9242
SWMF	100Y002H	123.00	122.82	0.0010	15.54	6.86	9120
SWMF	100Y004H	123.00	122.76	0.0010	8.22	6.02	9034
SWMF	100Y008H	123.00	122.87	0.0010	8.17	6.92	9199
SWMF	100Y024H	123.00	122.03	0.0010	2.60	2.14	8016
SWMF	100Y072H	123.00	121.68	0.0010	1.64	1.61	7449
SWMF	100Y168H	123.00	121.44	0.0010	1.10	1.10	7063
SWMF	100Y240H	123.00	121.62	0.0010	1.49	1.49	7354



Node: SWMF 2

Scenario: Icpr3
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 121.00 ft
 Warning Stage: 125.00 ft

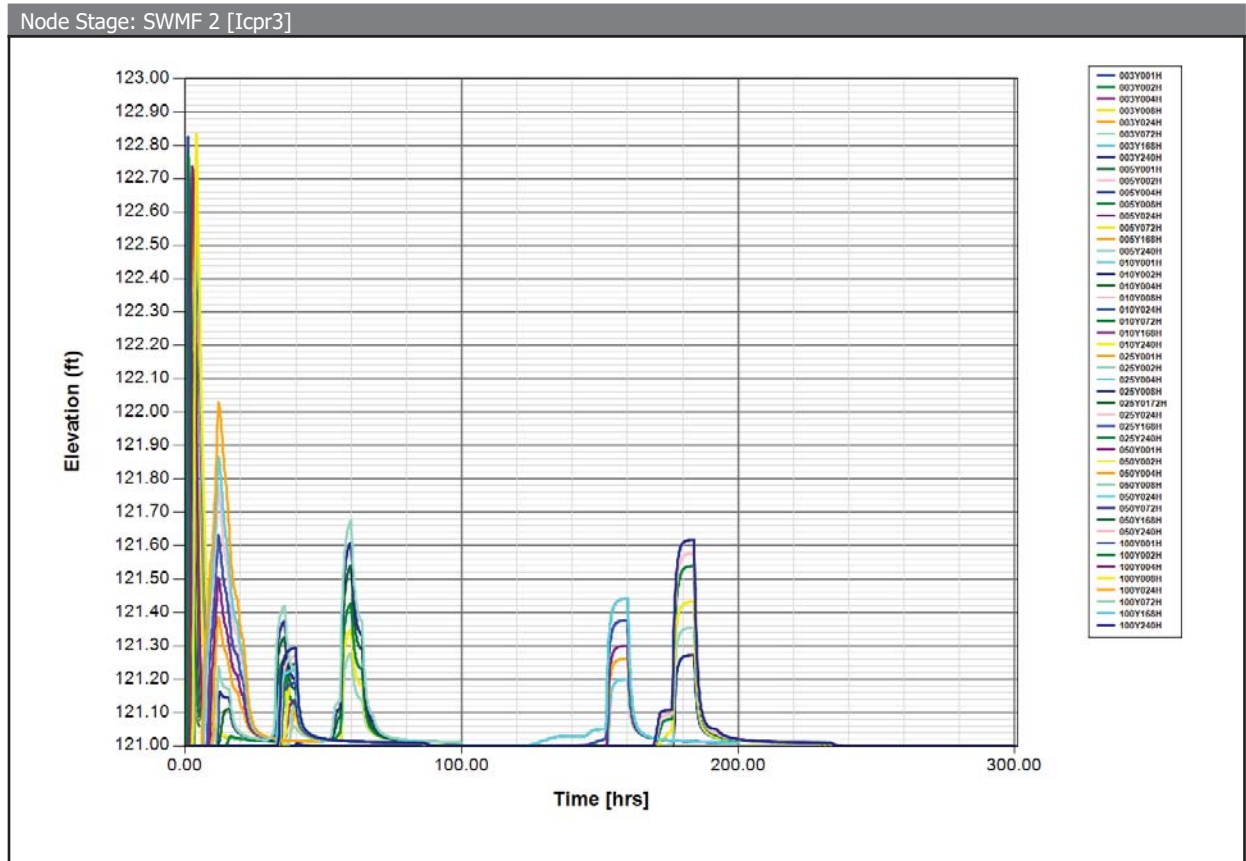
Stage [ft]	Area [ac]	Area [ft2]
121.00	0.0145	632
122.00	0.0362	1579
123.00	0.0606	2641
124.00	0.0870	3788
125.00	0.1170	5098

Comment:

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
SWMF 2	003Y001H	125.00	121.94	0.0010	1.84	0.28	1593
SWMF 2	003Y002H	125.00	121.71	0.0010	0.97	0.17	1379
SWMF 2	003Y004H	125.00	121.86	0.0010	0.65	0.18	1523
SWMF 2	003Y008H	125.00	121.81	0.0010	0.69	0.15	1476
SWMF 2	003Y024H	125.00	121.39	0.0010	0.08	0.02	1068
SWMF 2	003Y072H	125.00	121.28	0.0010	0.06	0.03	954
SWMF 2	003Y168H	125.00	121.20	0.0010	0.03	0.03	872
SWMF 2	003Y240H	125.00	121.27	0.0010	0.06	0.05	948
SWMF 2	005Y001H	125.00	122.09	0.0010	2.26	0.32	1740
SWMF 2	005Y002H	125.00	122.10	0.0010	1.96	0.28	1755
SWMF 2	005Y004H	125.00	122.18	0.0010	1.00	0.24	1834
SWMF 2	005Y008H	125.00	122.21	0.0010	0.94	0.21	1865
SWMF 2	005Y024H	125.00	121.51	0.0010	0.07	0.03	1184
SWMF 2	005Y072H	125.00	121.35	0.0010	0.08	0.04	1026
SWMF 2	005Y168H	125.00	121.26	0.0010	0.05	0.05	936
SWMF 2	005Y240H	125.00	121.35	0.0010	0.09	0.07	1032
SWMF 2	010Y001H	125.00	122.31	0.0010	2.98	0.43	1962
SWMF 2	010Y002H	125.00	122.29	0.0010	2.47	0.32	1936
SWMF 2	010Y004H	125.00	122.36	0.0010	1.19	0.30	2003
SWMF 2	010Y008H	125.00	122.40	0.0010	1.09	0.24	2044
SWMF 2	010Y024H	125.00	121.64	0.0010	0.10	0.04	1312
SWMF 2	010Y072H	125.00	121.43	0.0010	0.10	0.05	1104
SWMF 2	010Y168H	125.00	121.30	0.0010	0.07	0.06	976
SWMF 2	010Y240H	125.00	121.43	0.0010	0.10	0.09	1110
SWMF 2	025Y001H	125.00	122.54	0.0010	3.73	0.60	2151
SWMF 2	025Y002H	125.00	122.53	0.0010	3.03	0.36	2144
SWMF 2	025Y004H	125.00	122.55	0.0010	1.38	0.39	2164
SWMF 2	025Y008H	125.00	122.61	0.0010	1.16	0.34	2231
SWMF 2	025Y0172H	125.00	121.54	0.0010	0.12	0.06	1217
SWMF 2	025Y024H	125.00	121.78	0.0010	0.08	0.05	1444
SWMF 2	025Y168H	125.00	121.38	0.0010	0.09	0.08	1054
SWMF 2	025Y240H	125.00	121.54	0.0010	0.12	0.12	1215
SWMF 2	050Y001H	125.00	122.69	0.0010	4.23	0.73	2311
SWMF 2	050Y002H	125.00	122.68	0.0010	3.29	0.39	2300
SWMF 2	050Y004H	125.00	122.61	0.0010	1.43	0.42	2233
SWMF 2	050Y008H	125.00	122.71	0.0010	1.03	0.42	2338
SWMF 2	050Y024H	125.00	121.87	0.0010	0.09	0.06	1530
SWMF 2	050Y072H	125.00	121.61	0.0010	0.14	0.07	1283
SWMF 2	050Y168H	125.00	121.44	0.0010	0.10	0.10	1119
SWMF 2	050Y240H	125.00	121.58	0.0010	0.13	0.13	1251
SWMF 2	100Y001H	125.00	122.90	0.0010	4.87	0.95	2532
SWMF 2	100Y002H	125.00	122.82	0.0010	3.48	0.43	2446
SWMF 2	100Y004H	125.00	122.76	0.0010	1.47	0.49	2385
SWMF 2	100Y008H	125.00	122.87	0.0010	1.03	0.53	2502
SWMF 2	100Y024H	125.00	122.03	0.0010	0.12	0.06	1683
SWMF 2	100Y072H	125.00	121.68	0.0010	0.15	0.09	1347
SWMF 2	100Y168H	125.00	121.44	0.0010	0.10	0.10	1119

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
SWMF 2	100Y240H	125.00	121.62	0.0010	0.14	0.14	1291



Drop Structure Link: OCS	Upstream Pipe	Downstream Pipe
Scenario: Icpr3	Invert: 118.00 ft	Invert: 118.00 ft
From Node: SWMF	Manning's N: 0.0130	Manning's N: 0.0130
To Node: Post-Bnd	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 1.50 ft	Max Depth: 1.50 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length: 168.00 ft	Top Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft

Entr Loss Coef: 0.00	Op Table:	Op Table:
Exit Loss Coef: 0.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 120.75 ft	Op Table:
Control Elevation: 120.75 ft	Ref Node:
Max Depth: 0.75 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 122.00 ft	Op Table:
Control Elevation: 122.00 ft	Ref Node:
Max Depth: 999.00 ft	Discharge Coefficients
Max Width: 1.50 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 123.00 ft	Op Table:
Control Elevation: 123.00 ft	Ref Node:
Max Depth: 2.00 ft	Discharge Coefficients
Max Width: 3.00 ft	Weir Default: 3.200

Fillet: 0.00 ft

Weir Table:
Orifice Default: 0.600
Orifice Table:

Weir Comment:

Drop Structure Comment:

Link Min/Max Conditions [Icpr3]

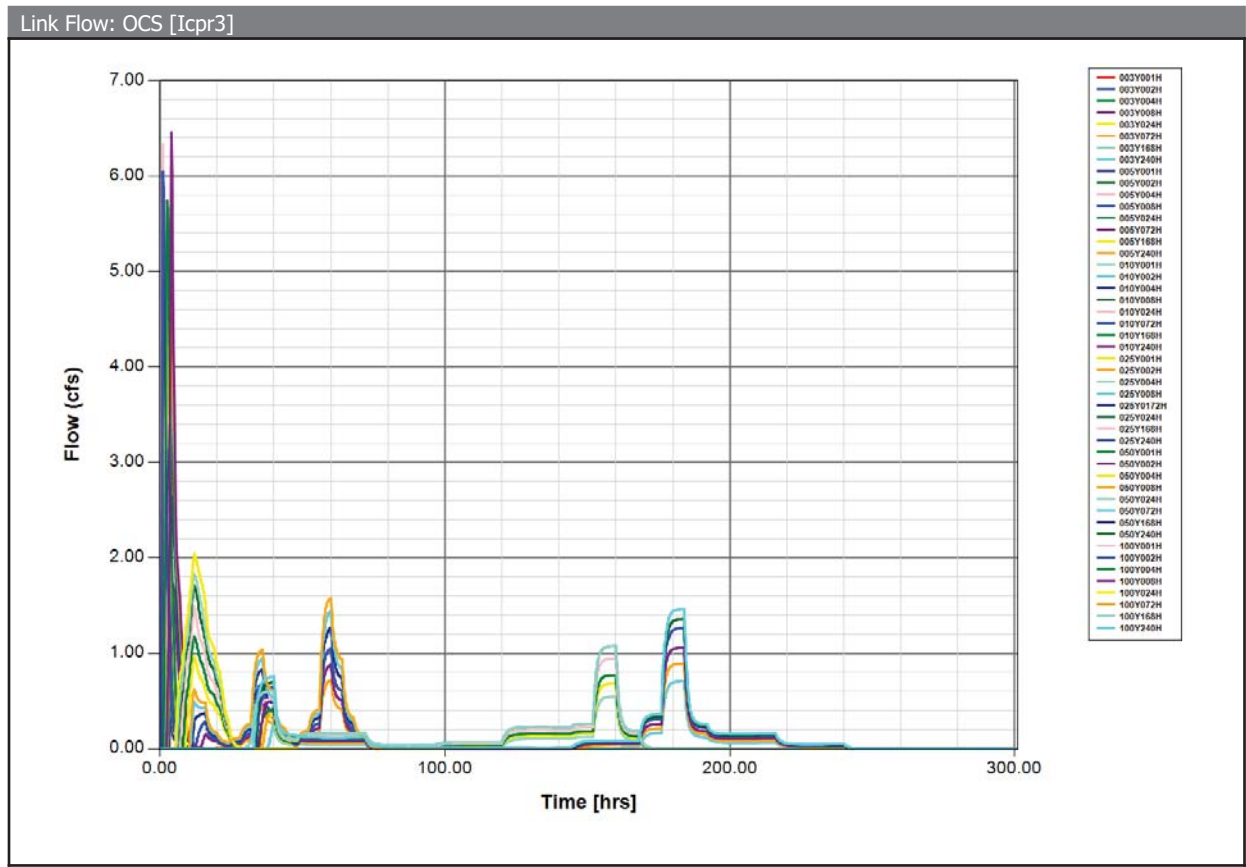
Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OCS - Pipe	003Y001H	1.92	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y001H	1.92	0.00	0.00	4.34	4.34	4.34
OCS - Weir: 2	003Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y002H	1.63	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y002H	1.63	0.00	0.00	3.68	3.68	3.68
OCS - Weir: 2	003Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y004H	1.83	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y004H	1.83	0.00	0.00	4.13	4.13	4.13
OCS - Weir: 2	003Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y008H	1.76	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y008H	1.76	0.00	0.00	3.99	3.99	3.99
OCS - Weir: 2	003Y008H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y008H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y024H	0.97	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y024H	0.97	0.00	0.00	2.42	2.42	2.42
OCS - Weir: 2	003Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y072H	0.72	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y072H	0.72	0.00	0.00	2.17	2.17	2.17
OCS - Weir: 2	003Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y168H	0.55	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y168H	0.55	0.00	0.00	1.98	1.98	1.98
OCS - Weir: 2	003Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	003Y240H	0.71	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	003Y240H	0.71	0.00	0.00	2.15	2.15	2.15
OCS - Weir: 2	003Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	003Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y001H	2.22	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	005Y001H	2.09	0.00	0.00	4.73	4.73	4.73
OCS - Weir: 2	005Y001H	0.13	0.00	0.00	0.96	0.96	0.96

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OCS - Weir: 3	005Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y002H	2.26	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	005Y002H	2.10	0.00	0.00	4.76	4.76	4.76
OCS - Weir: 2	005Y002H	0.16	0.00	0.00	1.03	1.03	1.03
OCS - Weir: 3	005Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y004H	2.56	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	005Y004H	2.19	0.00	0.00	4.95	4.95	4.95
OCS - Weir: 2	005Y004H	0.37	0.00	0.00	1.37	1.37	1.37
OCS - Weir: 3	005Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y008H	2.69	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	005Y008H	2.22	0.00	0.00	5.02	5.02	5.02
OCS - Weir: 2	005Y008H	0.48	0.00	0.00	1.48	1.48	1.48
OCS - Weir: 3	005Y008H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y024H	1.19	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	005Y024H	1.19	0.00	0.00	2.69	2.69	2.69
OCS - Weir: 2	005Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	005Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y072H	0.88	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	005Y072H	0.88	0.00	0.00	2.33	2.33	2.33
OCS - Weir: 2	005Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	005Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y168H	0.68	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	005Y168H	0.68	0.00	0.00	2.13	2.13	2.13
OCS - Weir: 2	005Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	005Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	005Y240H	0.89	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	005Y240H	0.89	0.00	0.00	2.34	2.34	2.34
OCS - Weir: 2	005Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	005Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y001H	3.17	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	010Y001H	2.32	0.00	0.00	5.25	5.25	5.25
OCS - Weir: 2	010Y001H	0.85	0.00	0.00	1.80	1.80	1.80
OCS - Weir: 3	010Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y002H	3.03	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	010Y002H	2.29	0.00	0.00	5.19	5.19	5.19
OCS - Weir: 2	010Y002H	0.74	0.00	0.00	1.71	1.71	1.71
OCS - Weir: 3	010Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y004H	3.39	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	010Y004H	2.36	0.00	0.00	5.34	5.34	5.34
OCS - Weir: 2	010Y004H	1.03	0.00	0.00	1.92	1.92	1.92
OCS - Weir: 3	010Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y008H	3.63	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	010Y008H	2.40	0.00	0.00	5.44	5.44	5.44
OCS - Weir: 2	010Y008H	1.23	0.00	0.00	2.03	2.03	2.03
OCS - Weir: 3	010Y008H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y024H	1.51	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	010Y024H	1.51	0.00	0.00	3.43	3.43	3.43

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OCS - Weir: 2	010Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	010Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y072H	1.05	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	010Y072H	1.05	0.00	0.00	2.50	2.50	2.50
OCS - Weir: 2	010Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	010Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y168H	0.77	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	010Y168H	0.77	0.00	0.00	2.22	2.22	2.22
OCS - Weir: 2	010Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	010Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	010Y240H	1.06	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	010Y240H	1.06	0.00	0.00	2.51	2.51	2.51
OCS - Weir: 2	010Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	010Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y001H	4.42	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	025Y001H	2.53	0.00	0.00	5.72	5.72	5.72
OCS - Weir: 2	025Y001H	1.89	0.00	-0.01	2.35	2.35	2.35
OCS - Weir: 3	025Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y002H	4.38	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	025Y002H	2.52	0.00	0.00	5.71	5.71	5.71
OCS - Weir: 2	025Y002H	1.86	0.00	-0.01	2.33	2.33	2.33
OCS - Weir: 3	025Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y004H	4.50	0.00	0.01	0.00	0.00	0.00
OCS - Weir: 1	025Y004H	2.54	0.00	0.00	5.74	5.74	5.74
OCS - Weir: 2	025Y004H	1.96	0.00	0.01	2.37	2.37	2.37
OCS - Weir: 3	025Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y008H	4.90	0.00	0.01	0.00	0.00	0.00
OCS - Weir: 1	025Y008H	2.59	0.00	0.00	5.87	5.87	5.87
OCS - Weir: 2	025Y008H	2.31	0.00	-0.01	2.51	2.51	2.51
OCS - Weir: 3	025Y008H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y0172H	1.27	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	025Y0172H	1.27	0.00	0.00	2.88	2.88	2.88
OCS - Weir: 2	025Y0172H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	025Y0172H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y024H	1.72	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	025Y024H	1.72	0.00	0.00	3.89	3.89	3.89
OCS - Weir: 2	025Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	025Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y168H	0.94	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	025Y168H	0.94	0.00	0.00	2.39	2.39	2.39
OCS - Weir: 2	025Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	025Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	025Y240H	1.27	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	025Y240H	1.27	0.00	0.00	2.87	2.87	2.87
OCS - Weir: 2	025Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	025Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y001H	5.40	0.00	-0.01	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OCS - Weir: 1	050Y001H	2.66	0.00	0.00	6.02	6.02	6.02
OCS - Weir: 2	050Y001H	2.74	0.00	-0.01	2.66	2.66	2.66
OCS - Weir: 3	050Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y002H	5.33	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	050Y002H	2.65	0.00	0.00	6.00	6.00	6.00
OCS - Weir: 2	050Y002H	2.68	0.00	-0.01	2.64	2.64	2.64
OCS - Weir: 3	050Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y004H	4.91	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	050Y004H	2.60	0.00	0.00	5.87	5.87	5.87
OCS - Weir: 2	050Y004H	2.32	0.00	-0.01	2.51	2.51	2.51
OCS - Weir: 3	050Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y008H	5.58	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	050Y008H	2.68	0.00	0.00	6.07	6.07	6.07
OCS - Weir: 2	050Y008H	2.90	0.00	-0.01	2.70	2.70	2.70
OCS - Weir: 3	050Y008H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y024H	1.84	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	050Y024H	1.84	0.00	0.00	4.16	4.16	4.16
OCS - Weir: 2	050Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	050Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y072H	1.44	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	050Y072H	1.44	0.00	0.00	3.26	3.26	3.26
OCS - Weir: 2	050Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	050Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y168H	1.08	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	050Y168H	1.08	0.00	0.00	2.53	2.53	2.53
OCS - Weir: 2	050Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	050Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	050Y240H	1.36	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	050Y240H	1.36	0.00	0.00	3.08	3.08	3.08
OCS - Weir: 2	050Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	050Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y001H	6.91	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	100Y001H	2.83	0.00	0.00	6.41	6.41	6.41
OCS - Weir: 2	100Y001H	4.08	0.00	-0.01	3.03	3.03	3.03
OCS - Weir: 3	100Y001H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y002H	6.30	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	100Y002H	2.76	0.00	0.00	6.26	6.26	6.26
OCS - Weir: 2	100Y002H	3.54	0.00	-0.01	2.89	2.89	2.89
OCS - Weir: 3	100Y002H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y004H	5.88	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	100Y004H	2.72	0.00	0.00	6.15	6.15	6.15
OCS - Weir: 2	100Y004H	3.17	0.00	-0.01	2.79	2.79	2.79
OCS - Weir: 3	100Y004H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y008H	6.69	0.00	-0.01	0.00	0.00	0.00
OCS - Weir: 1	100Y008H	2.81	0.00	0.00	6.35	6.35	6.35
OCS - Weir: 2	100Y008H	3.88	0.00	-0.01	2.98	2.98	2.98
OCS - Weir: 3	100Y008H	0.00	0.00	0.00	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
OCS - Pipe	100Y024H	2.05	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	100Y024H	2.03	0.00	0.00	4.58	4.58	4.58
OCS - Weir: 2	100Y024H	0.03	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	100Y024H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y072H	1.58	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	100Y072H	1.58	0.00	0.00	3.57	3.57	3.57
OCS - Weir: 2	100Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	100Y072H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y168H	1.08	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	100Y168H	1.08	0.00	0.00	2.53	2.53	2.53
OCS - Weir: 2	100Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	100Y168H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Pipe	100Y240H	1.46	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 1	100Y240H	1.46	0.00	0.00	3.31	3.31	3.31
OCS - Weir: 2	100Y240H	0.00	0.00	0.00	0.00	0.00	0.00
OCS - Weir: 3	100Y240H	0.00	0.00	0.00	0.00	0.00	0.00



Rating Curve Link: Filter-SWMF

Scenario: Icpr3
 From Node: SWMF
 To Node: Post-Bnd
 Link Count: 1
 Flow Direction: Both

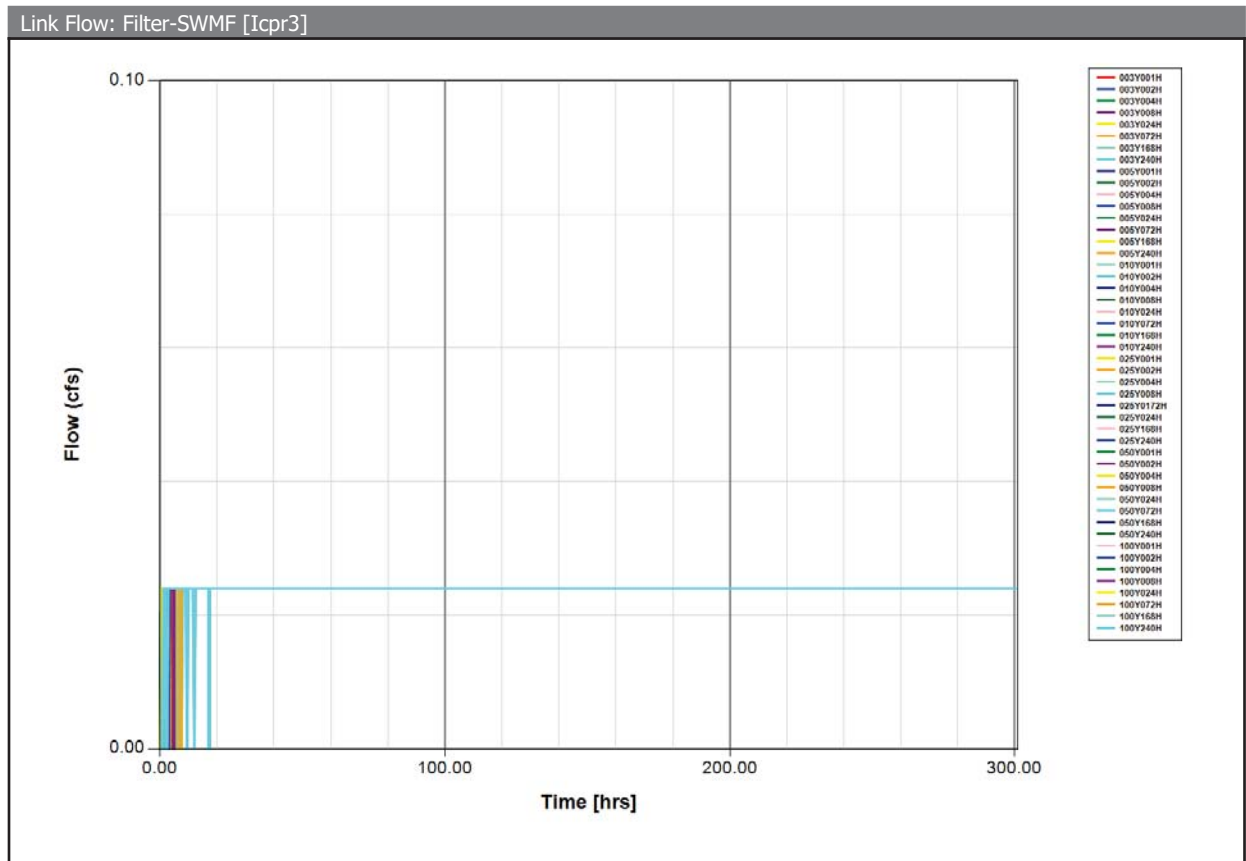
Table	Elev On [ft]	Elev On Node	Elev Off [ft]	Elev Off Node
Sand Filter	119.01	SWMF	119.00	SWMF

Comment:

Link Min/Max Conditions [Icpr3]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
Filter-SWMF	003Y001H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	003Y002H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	003Y004H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	003Y008H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	003Y024H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	003Y072H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	003Y168H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	003Y240H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	005Y001H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	005Y002H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	005Y004H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	005Y008H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	005Y024H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	005Y072H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	005Y168H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	005Y240H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	010Y001H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	010Y002H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	010Y004H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	010Y008H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	010Y024H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	010Y072H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	010Y168H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	010Y240H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	025Y001H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	025Y002H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	025Y004H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	025Y008H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	025Y0172H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	025Y024H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	025Y168H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	025Y240H	0.02	0.00	-0.02	0.00	0.00	0.00

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
Filter-SWMF	050Y001H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	050Y002H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	050Y004H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	050Y008H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	050Y024H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	050Y072H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	050Y168H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	050Y240H	0.02	0.00	-0.02	0.00	0.00	0.00
Filter-SWMF	100Y001H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y002H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y004H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y008H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y024H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y072H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y168H	0.02	0.00	0.01	0.00	0.00	0.00
Filter-SWMF	100Y240H	0.02	0.00	-0.02	0.00	0.00	0.00



Rating Curve: Sand Filter

Scenario: Icp3

Type: Head

Head [ft]	Discharge [cfs]
119.00	0.02
120.00	0.09
121.00	0.12
122.00	0.16
123.00	0.19
124.00	0.23

Comment:

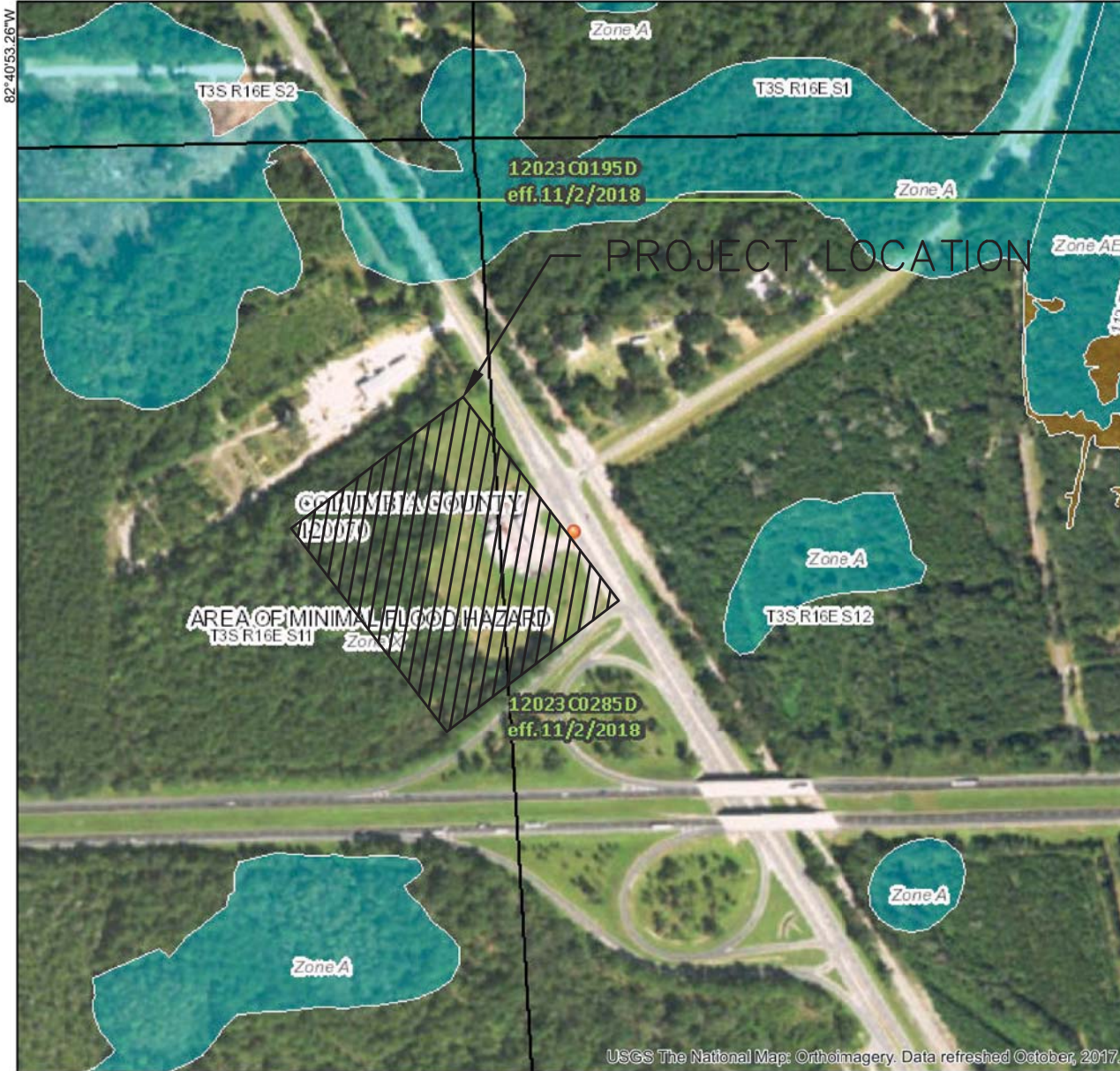
Attachment H

FEMA Map

National Flood Hazard Layer FIRMette



30°15'5.74"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | |
|------------------------------------|---|
| SPECIAL FLOOD HAZARD AREAS | <ul style="list-style-type: none"> Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | <ul style="list-style-type: none"> NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> Effective LOMRs Area of Undetermined Flood Hazard <i>Zone D</i> |
| GENERAL STRUCTURES | <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall |
| OTHER FEATURES | <ul style="list-style-type: none"> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature |
| MAP PANELS | <ul style="list-style-type: none"> Digital Data Available No Digital Data Available Unmapped |
- N
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/14/2019 at 1:21:09 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

USGS The National Map: Orthoimagery. Data refreshed October, 2017.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

30°14'34.66"N

82°40'15.80"W

Attachment I

Geotechnical Report



Cal -Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056
Tel. (386) 755-3633 • Fax (386) 752-5456

450 SR 13N, Suite 106-308, Jacksonville, FL 32259
Tel. (904) 381-8901 • Fax (904) 381-8902

August 4, 2017

Mr. John W. O'Neal
O'Neal Contracting, Inc.
P.O. Box 3505
Lake City, Florida 32056

**RE: Geotechnical Engineering Study Report
Busy Bee #7-Service Area Expansion
Lake City, Florida
Cal-Tech Testing, Inc. Project No. 17-001463-01**

Dear Mr. John W. O'Neal,

This report presents the results of our geotechnical engineering study performed for the proposed Busy Bee #7 Service Area Expansion in Lake City, Florida. Our geotechnical engineering study was performed in accordance with our proposal dated June 26, 2017 and your subsequent authorization.

The purposes of our geotechnical engineering study were to obtain subsurface soil information, perform analyzes and evaluations and provide site preparation and foundation recommendations in regards to the construction of the proposed service area expansion.

SITE AND PROJECT INFORMATION

Based on our observations during our field work, the site consists of a vacant piece of land facing the US Highway 41 southbound with low lying vegetation by the front half and heavy vegetation with tall trees by the rear half.

Based on our review of the Request for Proposal (RFP) for Geotechnical Engineering Services by Dewberry/Preble-Rish, dated June 12, 2017, you provide to us, the proposed project consists of the expansion of the service area including the construction of paved driveways, gas pump canopy structure and the storm water management facility.

Information included in the request for proposal indicates the proposed driveway pavement should consist of a Heavy Pavement with an estimated traffic volume similar to FDOT Rural Collector with 95% semi-trailer truck traffic and a design speed of 40 MPH. A preliminary maximum column load of 30 kip for the canopy structure is also provided in the RFP.

FIELD INVESTIGATION

Our field investigation consisted of drilling 12 Standard Penetration Test (SPT) borings to a depth of 6 ft. (P1 through P12), three (3) SPT borings to a depth of 16 ft. (S1 through S3) and two (2) continuous-auger borings to a depth of 20 ft. (SWMF1 and SWMF2). In addition to the borings, we performed two field soil permeability tests in proximity to the SWMF1 and SWMF2 boring locations. The borings and field soil permeability tests were performed between July 18 and 21, 2017 at the locations indicated in your RFP and laid out by our field personal using a hand-held Global Positioning System (GPS) device. Refer to the enclosed Boring Location Plan.

We contacted Sunshine State One Call of Florida to mark out existing, known underground utilities prior to the beginning of our field investigation.

The sampling and penetration procedures of the SPT borings were in general accordance with ASTM D 1586 Penetration Test and Split-Barrel Sampling of Soil, using a power rotary drill rig. The standard penetration tests were performed continuously to the boring termination depths by driving a standard 1³/₈ inch I.D. and 2 inches O.D. split-spoon sampler with a manual 140-lb hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches in 6-inch increments were recorded in the boring logs. The penetration resistance, N-values, is the summation of the second and third 6-inch increments. The penetration resistance is used as an index to derive soil parameters from various empirical correlations.

The auger borings were performed by drilling a continuous-flight auger in general accordance with ASTM D 1452 Soil Investigation and Sampling by Auger Borings.

The field soil permeability tests were performed by recording the volume per minute required to maintain water at the top of a non-perforated casing extended to a depth of 3 ft. and 7 ft. for the test location by boring SWMF1 and SWMF2, respectively.

All soil samples obtained from the SPT and auger borings were delivered to our soil laboratory for review by our engineer and additional testing as required for classification.

SUBSURFACE SOIL CONDITIONS

GENERALIZED SOIL PROFILE

Based on the results of our field investigation the generalized subsurface soil profile for the proposed service area expansion driveway (i.e. borings P1 through P12) and the gas pump canopy structure (i.e. borings S1 through S3) are described below. Detailed subsurface soil conditions including results of laboratory tests are shown in the boring logs enclosed to this report.

Gas Pump Canopy Structure

The field investigation within the proposed Gas Pump Canopy Structure revealed the presence of 3-4 inches of topsoil underlain by a loose to medium dense SILTY SAND with limestone fragments stratum to a depth of 5 ft. to 7 ft. and a CLAY/SANDY SILT stratum the termination depth of the borings (S1, S2 and S3) at 16 ft. Detailed subsurface

soil conditions including results of laboratory tests are shown in the boring logs enclosed to this report.

Driveway

The samples obtained from the boring locations indicate the driveway area subsurface soils consist of a 3-4 inches of topsoil underlain by a very loose to dense SAND and SILTY SAND strata to the termination depth of the borings at 6 ft. A CLAYEY SAND stratum was encountered at a depth of 4 ft. and to the termination depth of the boring at 6 ft. Detailed subsurface soil conditions including results of laboratory tests are shown in the boring logs enclosed to this report.

GROUNDWATER

The groundwater was encountered first at a depth varying from 3.8 ft. to 5.8 ft. while drilling the borings. The groundwater level at each boring location is shown in the enclosed Boring Logs. Groundwater should be expected to fluctuate subject to seasonal variations.

The USDA NRCS indicates the groundwater at depths of 6 inches to 18 inches below the natural ground elevations in the soil map units covering the site.

SOIL PERMEABILITY

Analyses of the data obtained during the field permeability tests indicate soil vertical unsaturated hydraulic conductivities varying from 0.13 ft/day to 0.60 ft/day and suggest a soil horizontal hydraulic conductivity varying from 0.30 ft/day to 1.35 ft/day. The following table summarizes the field permeability test results:

Test Location	Vertical Unsaturated Soil Hydraulic Conductivity (K_{vu}) (ft/day)	Horizontal Soil Hydraulic Conductivity (K_h) (ft/day)
SWMF1	0.60	1.35
SWMF2	0.13	0.30

The associated auger borings revealed a confining CLAY stratum was encountered at a depth of 5 ft. and extended to the termination depth of the borings at 20 ft. Refer to the logs of borings SWMF1 and SWMF2.

GEOTECHNICAL EVALUATIONS & RECOMMENDATIONS

Gas Pump Canopy Structure

The primary geotechnical considerations for support of the proposed Gas Pump Canopy Structure are the loose relative density in the silty sand stratum upper 24 inches and the compressibility of the clay stratum encountered at a depth of 5 ft. to 7 ft.

Based on a preliminary maximum column load of 30 kips and the mentioned geotechnical considerations, the proposed structure would undergo post-construction settlement in the order of 1.5 to 2 inches as a results of the long-term compression of the clay stratum. Additional post-construction settlements might occur as a result of the long-term compression of the clay stratum under structural fill, if required to establish the design finished floor elevations.

Therefore, we recommend the pre-compression of the underlain clay stratum by raising the existing ground elevations to 2 ft. in excess of the design finished floor elevations. This additional fill should be allowed to pre-compress the clay stratum by remaining in place for a minimum of four (4) weeks so that post-construction settlements are reduced to tolerable levels.

Removal of the topsoil and densification of the loose silty sand stratum upper 24 inches should be performed prior to the placement of fill by compaction with a minimum of 20 overlapping (12 inches) passes of a large vibratory roller operated at the highest vibration levels and at 1.5 mph (i.e. 2.2 ft/sec).

Any soft, subsiding material observed on the ground surface during densification should be removed and replaced with suitable approved fill material.

Structural fill, if required, should approved material consisting of relatively clean sand with fine contents not to exceed 12%.

The proposed Gas Pump Canopy structure and other miscellaneous lightly loaded site features could be supported on footings designed with a safe soil contact pressure of 2,000 lb/ft² subject to performance of the densification and pre-compression work.

An allowable sliding resistance coefficient of 0.25 could be used for footings cast on soil after the upper 12 inches of subgrade are compacted to at least 95% of the Material's Maximum Dry Density ASTM D 1557.

Driveway

Based on the results of our field investigation, the encountered subsurface soil conditions are suitable to support the proposed driveway asphalt pavement after removal of the topsoil and densification of the very loose and loose zones encountered within the sand and silty sand strata upper layers; however, potential long term maintenance might be required on pavement surface slight depressions and cracks associated with long term settlements occurring as a result of compression of the clayey sand (boring P8) and clay (boring S1) strata under fill and pavement loads.

The potential appearance of slight depressions and cracks on the surface of the asphalt pavement could be minimized by allowing subgrade leveling fill and pavement base materials to compress the underlain strata for a minimum of four weeks prior to placing the pavement asphalt concrete.

Densification of the very loose and loose zones within the upper layers of the sand and silty sand strata should be accomplished in accordance with the recommendations provided in the precedent section of this report.

Asphalt Pavement

Based on the guidelines in the Florida Department of Transportation (FDOT) Flexible Pavement Design Manual, September 2016, an Annual Average Daily Traffic (AADT) of 2.0×10^3 , an 80% Reliability, and a 30% Growth Factor for 20 years, the proposed asphalt pavement should consists of any of the base course options given by the Base Group 9 in the manual's Table 5.6- General Use Optional Base Groups and Structural Numbers

overlaid by a 2-inch thick Super Pave SP-12.5 structural course and 1¹/₂-inch thick FC-12.5f friction course. The asphalt binder should be PG 76-22 or higher.

In addition to the driveway densification mentioned above, the asphalt pavement design recommendations are based on the subgrade upper 12 inches stabilization to a minimum Limerock Bearing Ratio (LBR) of 40 as specified by FDOT requirements for Type B Stabilized Subgrade. The subgrade should be compacted to at least 98% of the material's Maximum Dry Density (ASTM D 1557).

The stabilized subgrade can be a blend of existing soil and imported material such as limerock. If a blend is proposed, we recommend that the contractor perform a mix design to find the optimum mix proportions.

The primary function of the stabilized subgrade beneath the base course is to provide a stable surface so that the base can be properly and uniformly placed and compacted. Sands with silts or clay should generally have sufficient stability and may not require additional stabilizing material. Conversely, relatively clean sands will not provide sufficient stability to adequately construct the base course.

LIMITATIONS

Information on subsurface strata and groundwater levels shown on the logs represent conditions encountered only at the locations indicated and at the time of the investigation. If different conditions are encountered during construction, they should be immediately brought to our attention for evaluation as they may affect our recommendations.

Environmental issues (such as potentially contaminated soil and groundwater) are outside the scope of this study and should be addressed in a separate study.

CLOSURE

It has been a pleasure working with you and we look forward to continuing our work on this and future projects.

Sincerely,

Cal-Tech Testing, Inc.

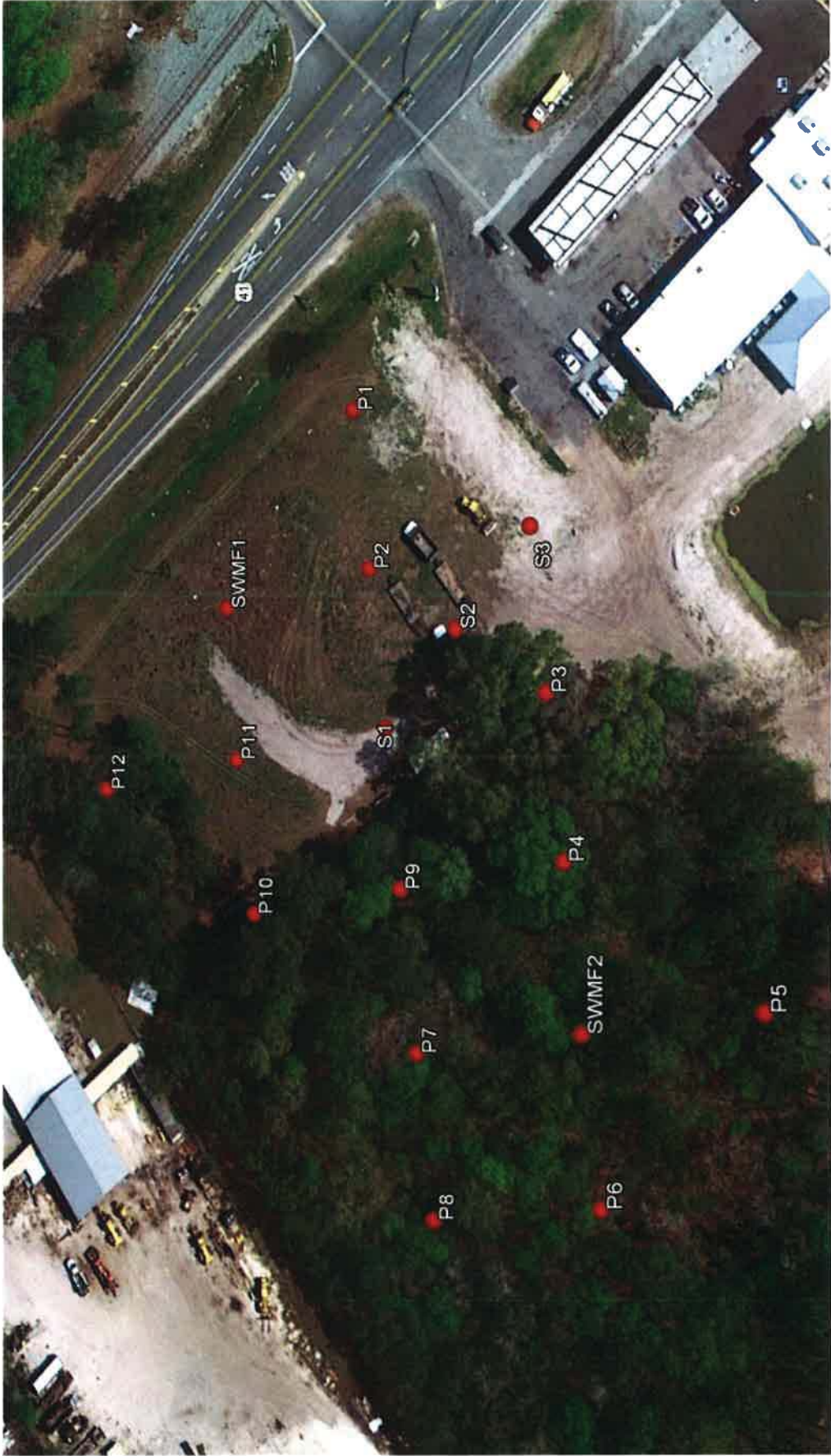


*Ivan E. Marciano, M.S., P.E.
Sr. Geotechnical Engineer

Enclosures:

Boring Locations Plan
Boring Logs

Mike Stalvey, Jr.
Vice-President



CAL-TECH TESTING, INC.
P.O. BOX 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

BORING LOCATION PLAN
Busy Bee #7-Service Area Expansion
Lake City, Florida



Cal-Tech Testing, Inc.
 3309 SR 247
 Lake City, FL 32024
 Telephone: 386-755-3633
 Fax: 386-755-3633

CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/18/17 **COMPLETED** 7/18/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 16 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD SPT **▽ AT TIME OF DRILLING** 3.80 ft / Elev -3.80 ft
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/31/17 12:48 - C:\PROGRAM FILES (X86)\GIN\PROJECTS\BUSY BEE #7.GPJ

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	
	TOPSOIL							
	Very dark gray SILTY SAND (SM)		1	SS	79	4-4-3-3 (7)	Boring Location Coordinates: N30°14'52" W82°40'39"	
	Light brownish gray SILTY SAND with limestone fragments (SM)		2	SS	83	6-7-9-10 (16)	SS=Split Spoon SS-1 Laboratory Test Results: -200=16.9%	
▽	Light brownish gray SILTY SAND with limestone fragments (SM)		4					
-5	Light brownish gray SILTY SAND with limestone fragments (SM)		3	SS	88	11-12-7-6 (19)	SS-3 Laboratory Test Results: -200=27.9%	
	Light brownish gray SILTY SAND with limestone fragments (SM)		6					
	Light greenish gray CLAY (CL)		4	SS	88	3-3-4-7 (7)	SS-4 Laboratory Test Results: w=28.4%	
	Light olive gray SANDY SILT (MLS)		8					
-10	Light olive gray SANDY SILT (MLS)		5	SS	83	4-4-4-5 (8)		
	Light olive gray SANDY SILT (MLS)		10					
	Light olive gray SANDY SILT (MLS)		6	SS	79	9-9-11-14 (20)	SS-6 Laboratory Test Results: w=61.6% -200=87.5%	
	Light olive gray SANDY SILT (MLS)		12					
	Light olive gray SANDY SILT (MLS)		7	SS	17	7-12-12-17 (24)	SS-7 Laboratory Test Results: -200=85.6%	
	Light olive gray SANDY SILT (MLS)		14					
-15	Light olive gray SANDY SILT (MLS)		8	SS	50	9-15-18-28 (33)		
	Bottom of borehole at 16.0 feet.		16					



Cal-Tech Testing, Inc.
 3309 SR 247
 Lake City, FL 32024
 Telephone: 386-755-3633
 Fax: 386-755-3633

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT AT TIME OF DRILLING --- Not Encountered
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/31/17 12:48 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	
	TOPSOIL							Boring Location Coordinates: N30°14'51" W82°42'39" SS=Split Spoon
	Very dark gray SILTY SAND (SM)			1	SS	83	4-6-4-16 (10)	
			2					
	Light brownish gray SILTY SAND with limestone fragments (SM)			2	SS	88	13-9-5-6 (14)	
			4					
-5				3	SS	83	8-5-5-5 (10)	
	Light greenish gray CLAY (CL)		6					
	Light greenish gray CLAY (CL)			4	SS	88	6-5-6-7 (11)	
			8					
	Light greenish gray CLAY (CL)			5	SS	88	7-8-8-8 (16)	
-10			10					
	Light greenish gray CLAY (CL)			6	SS	83	10-11-9-9 (20)	
			12					
	Light greenish gray and brownish yellow CLAY (CL)			7	SS	88	10-10-12-16 (22)	
			14					
-15	Light olive gray SANDY SILT (MLS)			8	SS	83	12-13-14-14 (27)	
			16					
	Bottom of borehole at 16.0 feet.							



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CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/18/17 **COMPLETED** 7/18/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 15.5 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD SPT **▽ AT TIME OF DRILLING** 4.50 ft / Elev -4.50 ft
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

G:\GEO\TECH\BH COLUMNS - DATA ENTRY\LATEST UPDATE\GDT - 7/31/17 13:01 - C:\PROGRAM FILES (X86)\GINT\PROJ\ECTS\BUSY BEE #7.GPJ

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	
	TOPSOIL							Boring Location Coordinates: N30°14'51" W82°42'38" SS=Split Spoon
	Very dark gray SILTY SAND (SM)		1	SS	83	3-4-4-5 (8)		
	Grayish brown SILTY SAND with limestone fragments (SM)		2					
			2	SS	79	6-4-6-23 (10)		
	Light brownish gray SILTY SAND with limestone fragments (SM)		4					
-5			3	SS	88	38-45-41-38 (86)		
	Light brownish gray SILTY SAND with limestone fragments (SM)		6					
	Light greenish gray CLAY (CL)		4	SS	83	16-15-11-8 (26)		
	Light greenish gray CLAY (CL)		8					
	Light greenish gray CLAY (CL)		5	SS	88	1-2-1-2 (3)		
-10	Light greenish gray CLAY (CL)		10					
	Light greenish gray CLAY (CL)		6	SS	89	2-4-5 (9)		
	Light greenish gray CLAY (CL)		12					
	Light greenish gray CLAY (CL)		7	SS	83	6-6-7 (13)		
	Light greenish gray CLAY (CL)		14					
-15	Light greenish gray CLAY (CL)		8	SS	72	5-6-6 (12)		
	Bottom of borehole at 15.5 feet.							



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BORING NUMBER SWMF1
 PAGE 1 OF 1

CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/19/17 **COMPLETED** 7/19/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 16 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Continuous Flight Auger **AT TIME OF DRILLING** --- Not Encountered
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE: GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (RQD) %	
	Dark gray SILTY SAND (SM)		1	AU	100		Boring Location Coordinates: N30°14'53" W82°42'36" AU=Continuous Auger
	Light gray SILTY SAND (SM)		2	AU	100		
			3	AU	100		
	Light gray SANDY CLAY with limestone fragments (CLS)		4	AU	100		
-5			4	AU	100		
	Light greenish gray CLAY (CL)		6				
	Light greenish gray CLAY (CL)		8				
-10	Light greenish gray CLAY (CL)		10				
	Light greenish gray CLAY (CL)		12				
	Light greenish gray CLAY (CL)		14	5	AU	100	
-15	Light greenish gray CLAY (CL)		16				
	Light greenish gray CLAY (CL)		18				
	Light greenish gray CLAY (CL)		20				

Bottom of borehole at 20.0 feet.



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BORING NUMBER SWFM2
 PAGE 1 OF 1

CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/19/17 **COMPLETED** 7/19/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 16 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Continuous Flight Auger **AT TIME OF DRILLING** --- Not Encountered
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE: GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	
	Dark gray SAND (SP)		1	AU	100		Boring Location Coordinates: N30°14'51" W82°42'41" AU=Continuous Auger	
	Light gray SILTY SAND (SM)		2					
	Light gray SILTY SAND (SM)		2	AU	100			
	Light gray SILTY SAND (SM)		4					
-5	Ligth greenish gray CLAY (CL)		6					
	Ligth greenish gray CLAY (CL)		8					
	Ligth greenish gray CLAY (CL)		10					
-10	Ligth greenish gray CLAY (CL)		12					
	Ligth greenish gray CLAY (CL)		14					
-15	Ligth greenish gray CLAY (CL)		16					
	Ligth greenish gray CLAY (CL)		18					
	Ligth greenish gray CLAY (CL)		20	3	AU	100		

Bottom of borehole at 20.0 feet.



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BORING NUMBER P1

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT ∇ AT TIME OF DRILLING 4.90 ft / Elev -4.90 ft
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (Rod) %	BLOW COUNTS (N VALUE)	
	TOPSOIL							Boring Location Coordinates: N30°14'52" W82°40'37" SS=Split Spoon
	Very dark gray SILTY SAND (SM)		1	SS	88	2-4-5-2 (9)		
	Grayish brown SILTY SAND (SM)		2					
	Very dark gray SILTY SAND (SM)		2	SS	87	7-8-29- 50/5"		
	Light brownish gray SILTY SAND with limestone fragments (SM)		4					
	Light gray SILTY SAND with limestone fragments (SM)							
-5	∇			3	SS	88	25-15-13- 11 (28)	
	Bottom of borehole at 6.0 feet.		6					

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/31/17 12:48 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/18/17 **COMPLETED** 7/18/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 16 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD SPT **AT TIME OF DRILLING** --- Not Encountered
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (R ₆₀) %	
	TOPSOIL						
	Very dark gray SILTY SAND (SM)		1	1	SS	83	Boring Location Coordinates: N30°14'51" W82°40'39" SS=Split Spoon
	Light gray SILTY SAND (SM)		2				
	Light gray SILTY SAND (SM)		4	2	SS	88	SS-2 Laboratory Test Results: -200=30.3%
	Light gray SILTY SAND (SM)						
-5	Light brownish gray SAND with silt (SP-SM)		6	3	SS	83	
	Bottom of borohole at 6.0 feet.						

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/31/17 12:48 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P4
 PAGE 1 OF 1

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT AT TIME OF DRILLING 5.00 ft / Elev -5.00 ft
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (RQD) %	BLOW COUNTS (N VALUE)	
	TOPSOIL							Boring Location Coordinates: N30°14'51" W82°40'40" SS=Split Spoon
	Light brownish gray SAND (SP)		1	SS	88	1-1-1-2 (2)		
	Gray SILTY SAND (SM)		2	SS	13	1-2-3-4 (5)		
-5			4					
	Light gray SAND with limestone fragments (SP)		3	SS	25	4-6-21-45 (27)		
	Bottom of borehole at 6.0 feet.		6					

GEOTECH.BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P5
 PAGE 1 OF 1

CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/18/17 **COMPLETED** 7/18/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 16 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD SPT **AT TIME OF DRILLING** 3.00 ft / Elev -3.00 ft
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (Rqd) %	BLOW COUNTS (N VALUE)	
	Gray SAND (SP)		1	SS	83	1-1-4-8 (5)	Boring Location Coordinates: N30°14'50" W82°40'41" SS=Split Spoon	
	Light brownish gray SAND with limestone fragments (SP)		2					
	Gray SILTY SAND with limestone fragments (SM)		2	SS	75	6-8-8-11 (16)		
	Gray SILTY SAND with limestone fragments (SM)		3	SS	83	3-3-4-6 (7)		
	Bottom of borehole at 6.0 feet.		6					

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P6

CLIENT O'Neal Contracting, Inc. **PROJECT NAME** Busy Bee #7-Service Area Expansion
PROJECT NUMBER 17-00463-01 **PROJECT LOCATION** Lake City, Florida
DATE STARTED 7/20/17 **COMPLETED** 7/20/17 **GROUND ELEVATION** 0 ft **HOLE SIZE** 3-in dia. x 16 ft. depth
DRILLING CONTRACTOR Cal-Tech Testing, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD SPT **AT TIME OF DRILLING** 5.00 ft / Elev -5.00 ft
LOGGED BY E.J. **CHECKED BY** I.M. **AT END OF DRILLING** ---
NOTES Elev. referred to ground surface **AFTER DRILLING** ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (Rqd) %	
	TOPSOIL						Boring Location Coordinates: N30°14'52" W82°40'39" SS=Split Spoon
	Dark gray SAND (SP)		1	SS	50	1-1-1-1 (2)	
	Grayish brown SILTY SAND (SM)		2	SS	75	1-1-2-1 (3)	
-5	Light gray SILTY SAND with limestone fragments (SM)		3	SS	79	5-11-12-13 (23)	
	Bottom of borhole at 6.0 feet.		6				

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P7
 PAGE 1 OF 1

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT ∇ AT TIME OF DRILLING 5.50 ft / Elev -5.50 ft
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) <small>(RQD)%</small>	BLOW COUNTS <small>(N VALUE)</small>	
	TOPSOIL							Boring Location Coordinates: N30°14'52" W82°40'41" SS=Split Spoon
	Light brownish gray SAND with silt and limestone fragments (SP-SM)		1	SS	75	2-3-5-4 (8)		
	Light brownish gray SAND with silt and limestone fragments (SP-SM)		2	SS	79	3-3-4-7 (7)		
	Light gray SILTY SAND with limestone fragments (SM)		4					
-5	∇		3	SS	83	7-7-7-7 (14)		
	Bottom of borehole at 6.0 feet.		6					

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/20/17 COMPLETED 7/20/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT AT TIME OF DRILLING 3.00 ft / Elev -3.00 ft
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (ROD) %	
	TOPSOIL						
	Dark gray SAND (SP)		1	SS	75	1-1-1-2 (2)	Boring Location Coordinates: N30°14'52" W82°40'42" SS=Split Spoon SS-3 Laboratory Test Results: W=29.1% -200=45.7%
	Grayish brown SILTY SAND (SM)		2	SS	83	2-3-3-3 (6)	
-5	Light brownish gray and yellowish brown CLAYEY SAND (SC)		3	SS	79	5-8-8-10 (16)	
	Bottom of borehole at 6.0 feet.						

GEOTECH.BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/31/17 12:48 - C:\PROGRAM FILES (X86)\GINT\PROJECT\SIBUSY BEE #7.GPJ



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BORING NUMBER P9

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/20/17 COMPLETED 7/20/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT ∇ AT TIME OF DRILLING 5.80 ft / Elev -5.80 ft
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (Rqd) %	
	TOPSOIL						Boring Location Coordinates: N30°14'52" W82°40'40" SS=Split Spoon
	Dark gray SAND with silt (SP-SM)		1	SS	75	1-2-2-3 (4)	
	Dark yellowish brown SILTY SAND (SM)		2	SS	88	3-4-5-6 (9)	
	Dark yellowish brown SILTY SAND (SM)		3	SS	79	4-6-6-8 (12)	
-5			4				
			6				
	Bottom of borehole at 6.0 feet.						

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P10

PAGE 1 OF 1

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT ∇ AT TIME OF DRILLING 5.80 ft / Elev -5.80 ft
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (RQD) %	
	TOPSOIL						Boring Location Coordinates: N30°14'53" W82°40'40" SS=Split Spoon
	Very dark gray SILTY SAND (SM)		1	SS	88	1-2-3-3 (5)	
	Grayish brown SAND with silt (SP-SM)		2				
	Dark gray SILTY SAND (SM)		2	SS	83	3-3-3-6 (6)	
-5	Dark gray SILTY SAND with limestone fragments (SM)		4				
			3	SS	83	7-6-6-5 (12)	
	Bottom of borehole at 6.0 feet.		6				

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE: GDT - 7/31/17 12:48 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P11

CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT AT TIME OF DRILLING --- Not Encountered
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)</small>
				NUMBER	TYPE	RECOVERY (%) (RQD) %	
	TOPSOIL						Boring Location Coordinates: N30°14'53" W82°40'38" SS=Split Spoon
	Gray SAND with silt (SP-SM)		1	SS	79	3-4-3-5 (7)	
	Light greenish gray CLAY (CL)		2				
	Dark gray CLAYEY SAND (SC)		4	SS	83	3-3-5-5 (8)	
-5	Dark gray SAND (SP)		3	SS	83	7-7-7-5 (14)	
	Gray SILTY SAND (SM)		6				
	Bottom of borehole at 6.0 feet.						

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ



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BORING NUMBER P12

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CLIENT O'Neal Contracting, Inc. PROJECT NAME Busy Bee #7-Service Area Expansion
 PROJECT NUMBER 17-00463-01 PROJECT LOCATION Lake City, Florida
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION 0 ft HOLE SIZE 3-in dia. x 16 ft. depth
 DRILLING CONTRACTOR Cal-Tech Testing, Inc. GROUND WATER LEVELS:
 DRILLING METHOD SPT AT TIME OF DRILLING --- Not Encountered
 LOGGED BY E.J. CHECKED BY I.M. AT END OF DRILLING ---
 NOTES Elev. referred to ground surface AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (RQD) %	
	TOPSOIL						Boring Location Coordinates: N30°14'54" W82°40'39" SS=Split Spoon
	Gray SAND (SP)		1	SS	88	1-1-2-1 (3)	
	Light gray SILTY SAND (SM)		2				
	Light gray SILTY SAND (SM)		2	SS	88	1-1-1-1 (2)	
	Light gray SILTY SAND (SM)		4				
-5	Dark gray SILTY SAND (SM)		3	SS	88	6-5-5-9 (10)	
	Bottom of borehole at 6.0 feet.						

GEO TECH BH COLUMNS - DATA ENTRY LATEST UPDATE GDT - 7/25/17 10:23 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BUSY BEE #7.GPJ

Attachment J

ICPR Report (Existing Conditions)

Simulation: 003Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:00:35 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 2.50 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:00:37 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 2.64 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 003Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:00:40 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 3.08 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:00:45 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 3.52 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 003Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:00:54 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 4.56 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:01:17 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 5.80 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 003Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:02:04 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 7.30 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 003Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:03:52 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 8.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:06:18 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 2.70 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
	Energy Switch (1D): Energy
Energy Switch (2D): Energy	

Comment:

Simulation: 005Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:06:20 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 3.30 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:06:23 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 3.80 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 005Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:06:30 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 4.50 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:06:39 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 5.52 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 005Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:07:02 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 7.00 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 005Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:07:51 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 9.00 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 005Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:09:58 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 10.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:12:24 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 3.05 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:12:26 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 3.70 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:12:30 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 4.40 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:12:35 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 5.12 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:12:45 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 6.72 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:13:26 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 8.30 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 010Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:14:17 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 10.10 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 010Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:16:03 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 11.80 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:18:37 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 3.45 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:18:40 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 4.30 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:18:43 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 5.12 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:18:49 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 6.00 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y0172H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:18:59 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-72
	Rainfall Amount: 10.00 in
Edge Length Option: Automatic	Storm Duration: 72.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y024H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:19:49 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-24
 Rainfall Amount: 7.92 in
 Storm Duration: 24.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 025Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:20:14 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 12.30 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 025Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:22:05 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 14.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y001H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:24:43 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 3.75 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:24:46 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 4.70 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y004H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:24:49 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 5.40 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:24:55 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	20.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 6.50 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y024H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:25:05 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	50.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 8.64 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:25:31 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 11.25 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 050Y168H

Scenario: IcpR3
 Run Date/Time: 5/2/2019 1:26:25 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 14.00 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 050Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:28:08 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph ICPR3
 Folder:

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: ICPR3

 Green-Ampt Set: ICPR3
 Vertical Layers Set:
 Impervious Set: ICPR3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight 0.5 dec
 Fact:
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area 1 ft2
 (2D):
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 15.00 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area 113 ft2
 (1D):
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y001H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:31:13 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	3.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
 Reference ET Folder:
 Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-1
	Rainfall Amount: 4.20 in
Edge Length Option: Automatic	Storm Duration: 1.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y002H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:31:15 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	5.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-2
 Rainfall Amount: 5.10 in
 Storm Duration: 2.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y004H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:31:19 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	10.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-4
	Rainfall Amount: 6.08 in
Edge Length Option: Automatic	Storm Duration: 4.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 ft2	Min Node Srf Area 113 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y008H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:31:24 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	16.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-8
 Rainfall Amount: 7.36 in
 Storm Duration: 8.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y024H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:31:33 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-24
	Rainfall Amount: 9.84 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y072H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:31:58 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-72
 Rainfall Amount: 12.40 in
 Storm Duration: 72.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Simulation: 100Y168H

Scenario: Icpr3
 Run Date/Time: 5/2/2019 1:32:50 PM
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	200.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:

Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: Fdot-168
	Rainfall Amount: 14.00 in
Edge Length Option: Automatic	Storm Duration: 168.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 1 ft2	Min Node Srf Area (1D): 113 ft2
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: 100Y240H

Scenario: Icp3
Run Date/Time: 5/2/2019 1:34:34 PM
Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	300.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		60.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Icpr3
 Reference ET Folder:
 Unit Hydrograph Folder: Icpr3

Lookup Tables

Boundary Stage Set:
 Extern Hydrograph Set:
 Curve Number Set: Icpr3

 Green-Ampt Set:
 Vertical Layers Set:
 Impervious Set: Icpr3
 Roughness Set:
 Crop Coef Set:
 Fillable Porosity Set:
 Conductivity Set:
 Leakage Set:

Tolerances & Options

Time Marching: SAOR
 Max Iterations: 6
 Over-Relax Weight Fact: 0.5 dec
 dZ Tolerance: 0.0010 ft
 Max dZ: 1.0000 ft
 Link Optimizer Tol: 0.0001 ft

 Edge Length Option: Automatic

 Dflt Damping (2D): 0.0050 ft
 Min Node Srf Area (2D): 1 ft2
 Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
 ET for Manual Basins: False

 Manual Basin Rain Opt: Global
 OF Region Rain Opt: Global
 Rainfall Name: Fdot-240
 Rainfall Amount: 16.10 in
 Storm Duration: 240.0000 hr

 Dflt Damping (1D): 0.0050 ft
 Min Node Srf Area (1D): 113 ft2
 Energy Switch (1D): Energy

Comment:

Manual Basin: Pre-Basin

Scenario: Icp3
 Node: Pre-Bnd
 Hydrograph Method: NRCS Unit Hydrograph
 Infiltration Method: Curve Number
 Time of Concentration: 30.0000 min
 Max Allowable Q: 999999.00 cfs
 Time Shift: 0.0000 hr
 Unit Hydrograph: UH484
 Peaking Factor: 484.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
2.6660	PERVIOUS	D			

Comment:

Curve Number: Icp3 [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
IMPERVIOUS	D	98.0
PERVIOUS	D	84.0
POND	D	100.0

Impervious: Icp3 [Set]

Land Cover Zone	% Impervious	% DCIA	% Direct	Ia Impervious [in]	Ia Pervious [in]
IMPERVIOUS	0.00	0.00	0.00	0.000	0.000
PERVIOUS	0.00	0.00	0.00	0.000	0.000
POND	0.00	0.00	0.00	0.000	0.000

Node: Pre-Bnd

Scenario: Icp3
 Type: Time/Stage
 Base Flow: 0.00 cfs
 Initial Stage: 121.00 ft
 Warning Stage: 122.00 ft
 Boundary Stage:

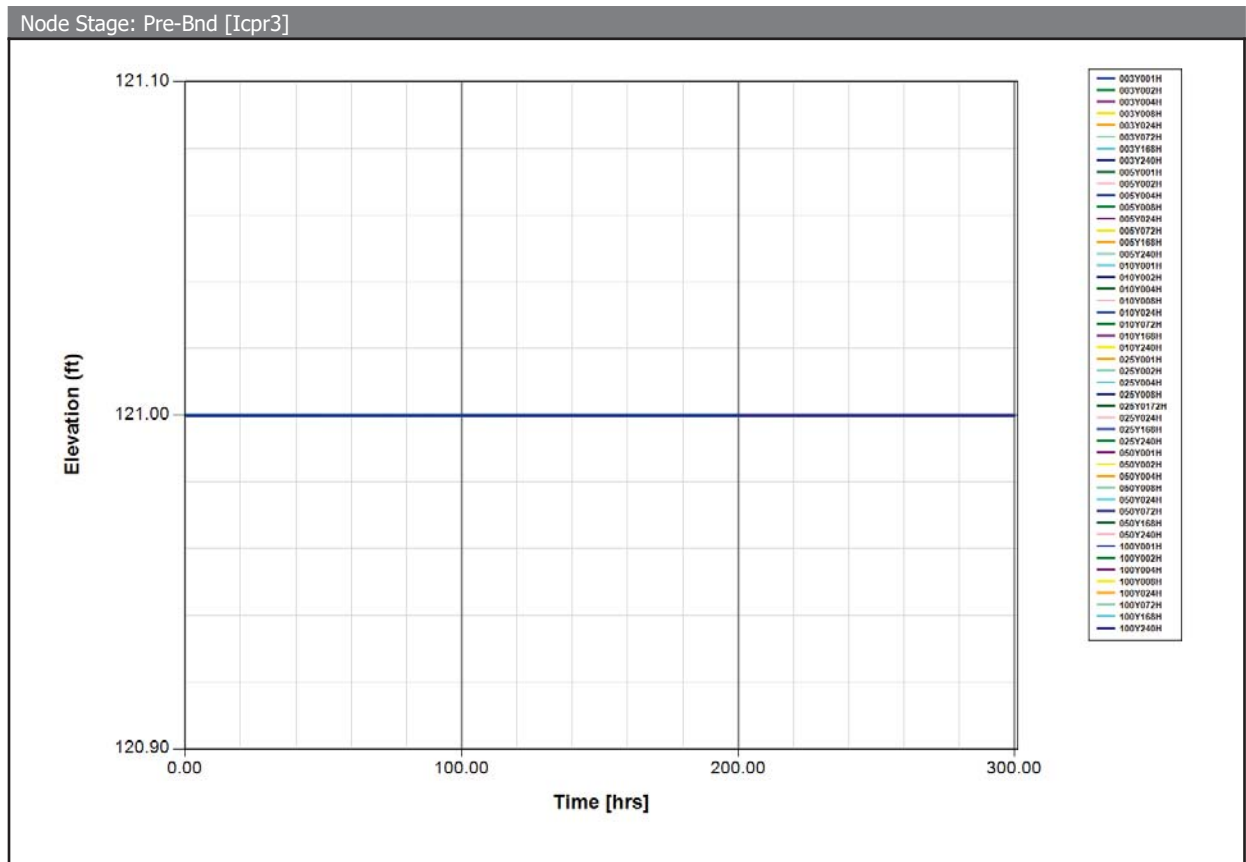
Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	121.00
0	0	0	999.0000	121.00

Comment:

Node Max Conditions [Icpr3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Pre-Bnd	003Y001H	122.00	121.00	0.0000	5.08	0.00	0
Pre-Bnd	003Y002H	122.00	121.00	0.0000	3.50	0.00	0
Pre-Bnd	003Y004H	122.00	121.00	0.0000	2.50	0.00	0
Pre-Bnd	003Y008H	122.00	121.00	0.0000	2.72	0.00	0
Pre-Bnd	003Y024H	122.00	121.00	0.0000	0.92	0.00	0
Pre-Bnd	003Y072H	122.00	121.00	0.0000	0.70	0.00	0
Pre-Bnd	003Y168H	122.00	121.00	0.0000	0.55	0.00	0
Pre-Bnd	003Y240H	122.00	121.00	0.0000	0.70	0.00	0
Pre-Bnd	005Y001H	122.00	121.00	0.0000	5.77	0.00	0
Pre-Bnd	005Y002H	122.00	121.00	0.0000	5.07	0.00	0
Pre-Bnd	005Y004H	122.00	121.00	0.0000	3.38	0.00	0
Pre-Bnd	005Y008H	122.00	121.00	0.0000	3.86	0.00	0
Pre-Bnd	005Y024H	122.00	121.00	0.0000	1.19	0.00	0
Pre-Bnd	005Y072H	122.00	121.00	0.0000	0.87	0.00	0
Pre-Bnd	005Y168H	122.00	121.00	0.0000	0.69	0.00	0
Pre-Bnd	005Y240H	122.00	121.00	0.0000	0.89	0.00	0
Pre-Bnd	010Y001H	122.00	121.00	0.0000	7.02	0.00	0
Pre-Bnd	010Y002H	122.00	121.00	0.0000	6.06	0.00	0
Pre-Bnd	010Y004H	122.00	121.00	0.0000	4.16	0.00	0
Pre-Bnd	010Y008H	122.00	121.00	0.0000	4.58	0.00	0
Pre-Bnd	010Y024H	122.00	121.00	0.0000	1.53	0.00	0
Pre-Bnd	010Y072H	122.00	121.00	0.0000	1.05	0.00	0
Pre-Bnd	010Y168H	122.00	121.00	0.0000	0.78	0.00	0
Pre-Bnd	010Y240H	122.00	121.00	0.0000	1.06	0.00	0
Pre-Bnd	025Y001H	122.00	121.00	0.0000	8.48	0.00	0
Pre-Bnd	025Y002H	122.00	121.00	0.0000	7.58	0.00	0
Pre-Bnd	025Y004H	122.00	121.00	0.0000	5.12	0.00	0
Pre-Bnd	025Y008H	122.00	121.00	0.0000	5.61	0.00	0
Pre-Bnd	025Y0172H	122.00	121.00	0.0000	1.28	0.00	0
Pre-Bnd	025Y024H	122.00	121.00	0.0000	1.87	0.00	0
Pre-Bnd	025Y168H	122.00	121.00	0.0000	0.95	0.00	0
Pre-Bnd	025Y240H	122.00	121.00	0.0000	1.27	0.00	0
Pre-Bnd	050Y001H	122.00	121.00	0.0000	9.61	0.00	0
Pre-Bnd	050Y002H	122.00	121.00	0.0000	8.61	0.00	0
Pre-Bnd	050Y004H	122.00	121.00	0.0000	5.51	0.00	0
Pre-Bnd	050Y008H	122.00	121.00	0.0000	6.20	0.00	0
Pre-Bnd	050Y024H	122.00	121.00	0.0000	2.07	0.00	0
Pre-Bnd	050Y072H	122.00	121.00	0.0000	1.45	0.00	0
Pre-Bnd	050Y168H	122.00	121.00	0.0000	1.09	0.00	0
Pre-Bnd	050Y240H	122.00	121.00	0.0000	1.36	0.00	0
Pre-Bnd	100Y001H	122.00	121.00	0.0000	11.32	0.00	0

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Pre-Bnd	100Y002H	122.00	121.00	0.0000	9.65	0.00	0
Pre-Bnd	100Y004H	122.00	121.00	0.0000	6.44	0.00	0
Pre-Bnd	100Y008H	122.00	121.00	0.0000	7.20	0.00	0
Pre-Bnd	100Y024H	122.00	121.00	0.0000	2.41	0.00	0
Pre-Bnd	100Y072H	122.00	121.00	0.0000	1.61	0.00	0
Pre-Bnd	100Y168H	122.00	121.00	0.0000	1.09	0.00	0
Pre-Bnd	100Y240H	122.00	121.00	0.0000	1.47	0.00	0



Attachment K

SWMF O&M Plan

Busy Bee #7 - Service Area Expansion Stormwater Management Facility Operation & Maintenance Plan

General Maintenance

The system shall be kept free of grass, leaves, limbs, trash, or other debris that can impede the free flow of water through the system. Through the months of October through March, inspect the pond bottom bi-monthly at a minimum for signs of high growing vegetation. Trim or mow vegetation as needed. During the months of April through September inspect the pond bottom monthly and trim or mow high growing vegetation. The following items shall be completed weekly or within three days of a significant (> 0.5") rainfall event:

1. Examine the stormwater management facility bottom looking for evidence of erosion. Repair any bare spots greater than five (5) square feet in area with sod to replace the grass cover.
2. In case of erosion or damage where underlying soil is missing, the missing soil shall be replaced and the area brought back to grade with sodding as required.
3. Debris and litter shall be removed from the stormwater management facility on a regular basis.

Annual General Maintenance

In addition to the General Maintenance, the system shall be thoroughly inspected at least once a year. The annual inspection should include inspection of the following items:

1. Sidelopes - Look for erosion of sideslopes creating channelization and deposits of sediment in pond bottom. Repair sideslopes, compact and provide stabilization with permanent grassing. Remove sediment from pond bottom.
2. Structures – Check concrete outfall structures for cracking and clogging of weirs. Check attachment of skimmer and repair as necessary.
3. Sand Filter – Using stormwater cleanouts clear the underdrain pipe of any clogs. Check underdrain pipe connection to concrete outfall structure for clogging. Look for and remove any buildup of sediment on top of sand filter.

Cost and Equipment

It is not anticipated that inspections will be necessary for the stormwater pond. If cleaning or mowing is needed the Owner of Busy Bee will be responsible for maintenance.

Maintenance and inspection cost is anticipated to be minimal, demanding 16 man-hours per year for maintenance at a cost of approximately \$2,400.00. Additional cost may be incurred if repairs have to be made on the sideslopes and sand filter, and may vary depending on the extent of the repairs. This cost does not include the landscaping associated with the stormwater that will be part of the properties regular landscaping schedule.

Attachment L

Drawdown Report

Node: SWMF

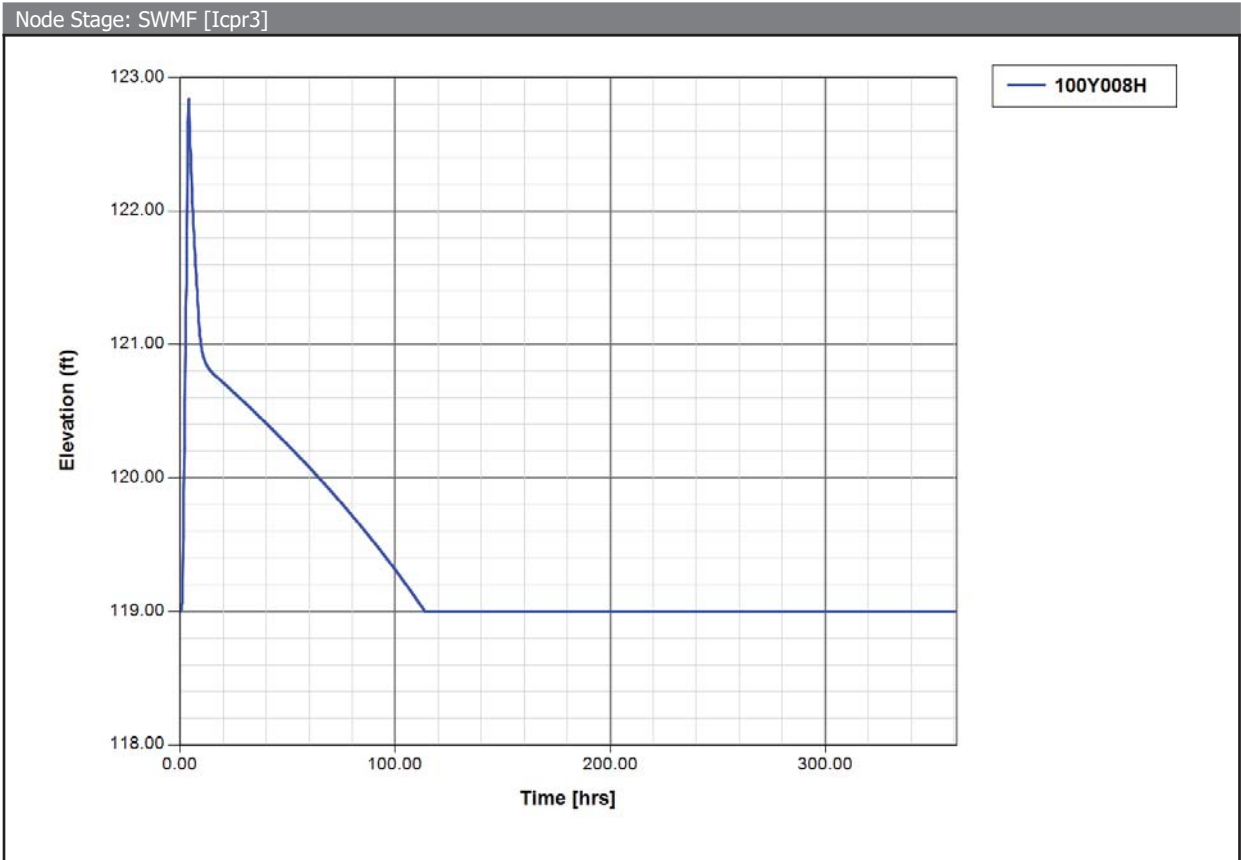
Scenario: Icp3
 Type: Stage/Area
 Base Flow: 0.00 cfs
 Initial Stage: 119.00 ft
 Warning Stage: 123.00 ft

Stage [ft]	Area [ac]	Area [ft2]
119.00	0.0830	3616
120.00	0.1121	4885
121.00	0.1442	6280
122.00	0.1813	7897
123.00	0.2157	9395
124.00	0.2551	11113

Comment: PROPOSED POND

Node Max Conditions [Icp3]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
SWMF	100Y008H	123.00	122.87	0.0010	8.17	6.92	9199



Attachment 4

Fire Department Access and Water Supply Plan

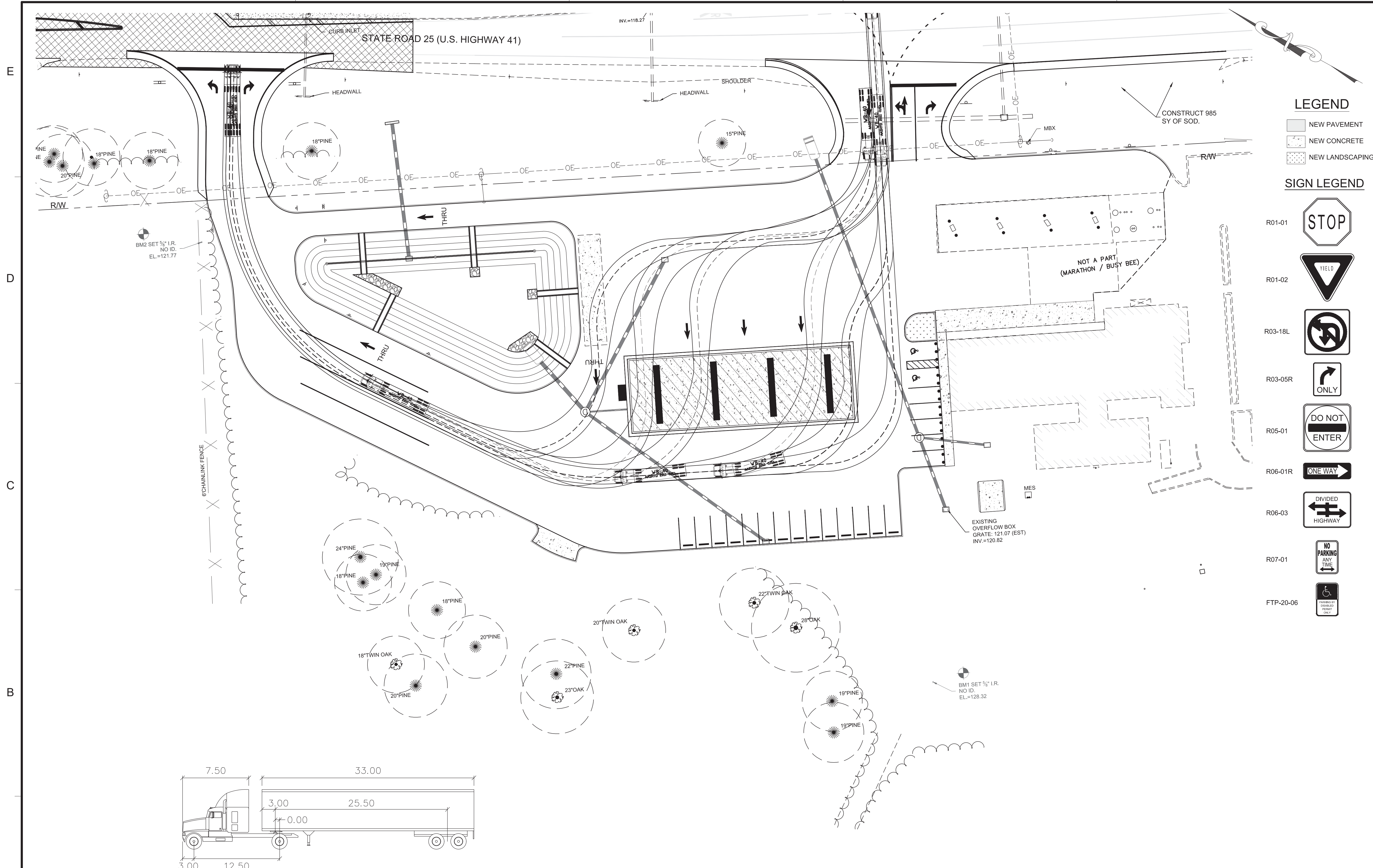
1

2

3

4

5

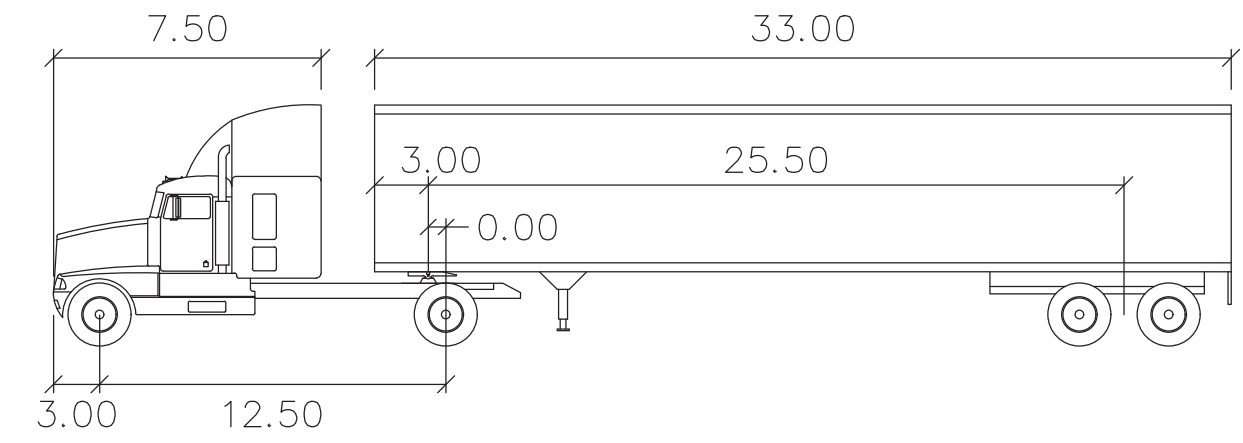


LEGEND

- NEW PAVEMENT
- NEW CONCRETE
- NEW LANDSCAPING

SIGN LEGEND

- R01-01 STOP
- R01-02 YIELD
- R03-18L NO LEFT TURN
- R03-05R RIGHT TURN ONLY
- R05-01 DO NOT ENTER
- R06-01R ONE WAY
- R06-03 DIVIDED HIGHWAY
- R07-01 NO PARKING ANY TIME
- FTP-20-06 DISABLED PARKING ONLY



WB-40

VEHICLE ANALYSIS TEMPLATE:			
feet			
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		



Dewberry Engineers Inc.
101 N. Monroe St.
Suite 710
Tallahassee, FL 32301
850.354.5183

BUSY BEE #7

SERVICE AREA EXPANSION
JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

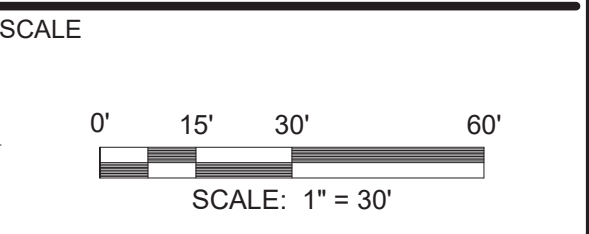
SEAL

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA BRYAN BAXLEY, PE. ON THE DATE NOTED ON THE ELECTRONIC SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

JOSHUA BRYAN BAXLEY, P.E. 67529
COA# 8794

PRELIMINARY DOCUMENTS
NOT FOR CONSTRUCTION



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JAL
APPROVED BY: JBB
CHECKED BY: AOA
DATE: APRIL 03, 2019

TITLE

AUTO TURN ANALYSIS

PROJECT NO. 50093979

C16

SHEET NO.

P:\50093979 Busy Bee #7 Svc Area Expansion\Civil3d\Folder\Production\50093979 Design.dwg, 4/3/2019 1:20:28 PM, FDOTPDF.p3

Attachment 5

Concurrency Impact Analysis

**CONCURRENCY
WORKSHEET**

Trip Generation Analysis

ITE Code	ITE Use	ADT Multiplier	PM Peak Multiplier	Unit*	Total ADT	Total PM Peak
944	Gasoline/Service Station	168.56	13.87	16.00	2696.96	221.92

*Per fueling station (16 proposed for construction)

Potable Water Analysis

Ch. 64E-6.008, F.A.C. Use	Ch. 64E-6.008, F.A.C. Gallons Per Day (GPD)	Ch. 64E-6.008, F.A.C. Multiplier*	Total (Gallons Per Day)
Service Stations (per water closet)	250.00	3.00	750.00

No new water closets proposed, GPD shown is existing.

* Multiplier is based upon Ch. 64E.6008, Florida Administrative Code and can vary from square footage, number of employees, number of seats, or etc. See Ch. 64E-6.008, F.A.C. to determine multiplier.

Sanitary Sewer Analysis

Ch. 64E-6.008, F.A.C. Use	Ch. 64E-6.008, F.A.C. Gallons Per Day (GPD)	Ch. 64E-6.008, F.A.C. Multiplier*	Total (Gallons Per Day)
Service Stations (per water closet)	250.00	3.00	750.00

No new water closets proposed, GPD shown is existing.

* Multiplier is based upon Ch. 64E.6008, F.A.C. and can vary from square footage, number of employees, number of seats, or etc. See Ch. 64E-6.008, F.A.C. to determine multiplier.

Solid Waste Analysis

Use	Pounds Per Thousand Sq Ft	Total Floor Area*	Total (Lbs Per Day)
Gasoline/Service Station	5.50	5.58	30.66

No new floor area proposed, lbs/day shown is existing.

*Per thousand square feet (i.e. 3,560 sq ft / 1,000 = 3.56)

Attachment 6

Comprehensive Plan Consistency Analysis

Comprehensive Plan Analysis

Busy Bee No. 7 Expansion

The proposed parcel lies within the FLUM (Future Land Use Map) designation Highway Interchange and Zoning designation of Commercial, Highway Interchange (CHI). The proposed construction of the Busy Bee #7 expansion will support the comprehensive plan Goals, Objectives, and Policies (GPO).

- Future Land Use Element
 - The Comprehensive plan denotes that sites zoned in Highway Interchange classification shall be located around interstates 10 and 75 and one of the limited uses stations. The proposed development of additional parking and fuel pumps is located adjacent to I-10 is therefore consistent with Columbia County Comprehensive Plan.
- Transportation Element

Segment Number ²	Segment Description	Lanes	Functional Classification	Area Type	LOS
12(47)	U.S. Highway 41 (From County's West Boundary to I-10)	2U	Principal Arterial	Highway Rural	D
<small> ¹ Source: Columbia County Comprehensive Plan, Capital Improvements Element. ² FDOT roadway segment number shown in parenthesis (when applicable.) For the purposes of concurrency management, Columbia County Comprehensive Plan segments that make up a portion of a larger FDOT roadway segment will be evaluated together when determining post development roadway capacity. </small>					

- The proposed 2697 AADT trips and 222 PM trips will not exceed above roadways capacity, the proposed construction will not encroach on Columbia County Right of Way and is therefore consistent with Columbia County's Comprehensive Plan
- Sanitary Sewer, Solid Waste, Drainage, Potable Water, and Natural Groundwater Aquifer Recharge Element
 - Potable Water – The development will not propose any additional water closets therefore there is no change in Potable Water usage.
 - Sanitary Sewer - The development will not propose any additional water closets therefore there is no change in Sanitary Sewer usage.
 - Solid Waste – The development will not propose any additional Gross Floor Area (GFA) therefore there is no change in Solid Waste usage.
 - Aquifer Recharge Element – The project site was previously determined to have no aquifer issues.
- Capital Improvements Element
 - No level of services standards will be breached.
- Recreation Facilities

- N/A
- Public School Facilities
 - N/A

Attachment 7

Legal Description

LEGAL DESCRIPTION

PARCEL ID: 11-3S-16-02063-001

A PART OF THE E_{1/2} OF THE NE_{1/4} OF SECTION 11 AND A PART OF THE W_{1/2} OF THE NW_{1/4} OF SECTION 12, ALL IN TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SW CORNER OF THE NE_{1/4} OF THE NE_{1/4} OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE RUN IN 1°47'49" WEST ALONG THE WEST LINE OF SAID NE_{1/4} OF THE NE_{1/4} A DISTANCE OF 200.03 FEET TO A POINT; THENCE RUN N 58°35'41" EAST A DISTANCE OF 1175.60 FEET TO THE WESTERLY RIGHT OF WAY LINE A DISTANCE OF 430 FEET TO A POINT; THENCE RUN S 57°35'41" WEST A DISTANCE OF 170 FEET ALONG THE NORTHERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL & REFINING COMPANY TO A POINT; THENCE S 37°35'53" EAST A DISTANCE OF 389.53 FEET ALONG THE WESTERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL AND REFINING COMPANY TO A POINT; THENCE RUN S 44°57'11" WEST ALONG THE NORTHERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY #10 A DISTANCE OF 233.30 FEET; THENCE RUN N 32°33'09" WEST A DISTANCE OF 185.30 FEET TO THE SOUTHERLY LINE OF SAID NE_{1/4} OF THE NE_{1/4} OF SECTION 11; THENCE RUNS S 87°48'01" WEST ALONG SAID SOUTHERLY LINE A DISTANCE OF 1057.53 FEET TO THE POINT OF BEGINNING. THIS DESCRIBED PROPERTY IS SUBJECT TO ALL UTILITY EASEMENTS.

Attachment 8

Deed

Prepared by and Return to
SOUTHEAST TITLE GROUP, LLP
Address: 2015 So. First Street
Lake City, FL 32056
St. File #99Y-08100111

FILED AND RECORDED IN PUBLIC
RECORDS OF COLUMBIA COUNTY, FL

Property Appraisers Parcel I.D. Number **09 - 15262**
11- [REDACTED]

1999 SEP -7 PM 3:59

Grantee(s) S.S.#(s): _____

WARRANTY DEED

THIS WARRANTY DEED made and executed the 31st day of August, 1999, by EIGHT HUNDRED ORANGE AVENUE, INC., a corporation existing under the laws of Florida, and having its principal place of business at P. O. BOX 5631, DAYTONA BEACH, FL 32118, hereinafter called the Grantor, to THE KINJAC CORPORATION, a corporation existing under the laws of Florida, with its permanent post office address at: P. O. BOX 157, MADISON, FL 32341, hereinafter called the Grantee:

(Wherever used herein the terms "first party" and "second party" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN DOLLARS (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

**EXHIBIT "A" ATTACHED HERETO
AND BY REFERENCE MADE A PART HEREOF**

Subject to Restrictions, Reservations and Easements of Record.
TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except for taxes accruing subsequent to December 31, 1998.

CORPORATE
SEAL

IN WITNESS WHEREOF, the party of the first part has caused these presents to be executed in its name, and its corporate seal to be hereunto affixed, by its proper officers thereunto duly authorized the 31 day of August, A.D., 19 99.

EX 0887 PG 1565

ATTEST: _____

Secretary

OFFICIAL RECORDS

Signed, sealed and delivered
in the presence of:

**EIGHT HUNDRED ORANGE AVENUE,
INC.**

Witness Signature: [Signature]
Printed Name: Elizabeth Orzco
Witness Signature: [Signature]
Printed Name: Elizabeth Orzco

BY: [Signature] President
Addr: P. O. BOX 5631
DAYTONA BEACH, FL 32118

Documentary Stamp \$ 875.00
Intangible Tax 6
P. DeWitt Cason
Clerk of Court
D.E.

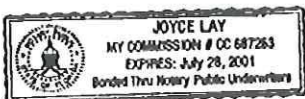
BK 0887 PG 1566

STATE OF Florida
COUNTY OF Volusia

OFFICIAL RECORDS

I hereby certify that on this day, before me, an officer duly authorized in the state aforesaid and in the county aforesaid to take acknowledgements, personally appeared Herman M Weisser and _____ well known to me to be the _____ President and _____ respectively of the corporation named as Grantor in the foregoing deed, who are personally known to me and who took an oath that they severally acknowledged executing the same in the presence of two subscribing witnesses freely and voluntarily under authority duly vested in them by said corporation, and that the seal affixed thereto is the true corporate seal of said corporation.

Witness my hand and official seal in the county and state aforesaid this 3/ day of August, 1999.



Joyce Lay
Notary Public Sign Above
Print Name: Joyce Lay
My Commission #: CC 667263
My Commission expires: 7/28/2001

EXHIBIT "A"

OFFICIAL RECORDS

A PART OF THE E½ OF THE NE¼ OF SECTION 11 AND A PART OF THE W¼ OF THE NW¼ OF SECTION 12, ALL IN TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SW CORNER OF THE NE¼ OF THE NE¼ OF SECTION 11, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE RUN N 1°47'49"WEST ALONG THE WEST LINE OF SAID NE¼ OF THE NE¼ A DISTANCE OF 200.30 FEET TO A POINT; THENCE RUN N 58°35'41" EAST A DISTANCE OF 1175.60 FEET TO THE WESTERLY RIGHT OF WAY LINE OF STATE ROAD NO. 25 (U.S. HIGHWAY 41); THENCE RUN SOUTH 32°24'19"EAST ALONG SAID WESTERLY RIGHT OF WAY LINE A DISTANCE OF 430 FEET TO A POINT; THENCE RUN S 57°35'41"WEST A DISTANCE OF 170 FEET ALONG THE NORTHERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL & REFINING COMPANY TO A POINT; THENCE S 37°35'53"EAST A DISTANCE OF 389.53 FEET ALONG THE WESTERLY LINE OF PROPERTY RETAINED BY HUMBLE OIL AND REFINING COMPANY TO A POINT; THENCE RUN S 44°57'11"WEST ALONG THE NORTHERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY #10 A DISTANCE OF 233.30 FEET; THENCE RUN N 32°33'09"WEST A DISTANCE OF 185.30 FEET TO THE SOUTHERLY LINE OF SAID NE¼ OF THE NE¼ OF SECTION 11; THENCE RUN S 87°48'01"WEST ALONG SAID SOUTHERLY LINE A DISTANCE OF 1057.53 FEET TO THE POINT OF BEGINNING. THIS DESCRIBED PROPERTY IS SUBJECT TO ALL UTILITY EASEMENTS.

Attachment 9

Agent Authorization Form

APPLICATION AGENT AUTHORIZATION FORM

TO: Florida Department of Transportation
Attn: Dan Morgan, Permits Inspector
710 NW Lake Jeffrey Rd., Suite 101
Lake City, FL 32055-2621

Authority to Act as Agent

On my/our behalf, I appoint Josh Baxley, P.E. Dewberry
(Name of Person as Agent) (Company Agent is representing, if applicable)

to act as my/our agent in the preparation and submittal of this application for
Busy Bee #7 - Service Area Expansion
(Type Application)

I acknowledge that all responsibility for complying with the terms and conditions
for approval of this application, still resides with me as the Applicant.

Applicant Title: Elizabeth Waring

On Behalf of: The Kinjac Corporation
(Company Name, if applicable)

Telephone: 850-973-7772 Date: 8/24/18

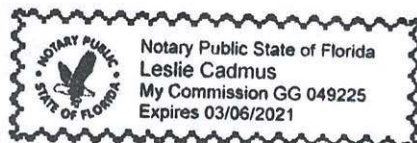
Applicant Signature: Elizabeth Waring

STATE OF FLORIDA
COUNTY OF Columbia

The Foregoing instrument was acknowledged before me this 24 day of Aug, 2018,
by Elizabeth Waring, whom is personally known by me OR
produced identification _____. Type of Identification Produced _____

Leslie Cadmus
Notary Signature

(SEAL)



2016 FLORIDA PROFIT CORPORATION ANNUAL REPORT

**FILED
Apr 25, 2016
Secretary of State
CC9601474651**

DOCUMENT# H14215

Entity Name: THE KINJAC CORPORATION

Current Principal Place of Business:

1607 US HWY 90 EAST
MADISON, FL 32340

Current Mailing Address:

PO BOX 157
MADISON, FL 32341 US

FEI Number: 59-2475169

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

JOHNSON, JACOB KSR
1607 US HWY 90 EAST
MADISON, FL 32340 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent

Date

Officer/Director Detail :

Title VP
Name JOHNSON, JACOB KSR
Address 437 NE FRALEIGH DRIVE
City-State-Zip: MADISON FL 32340

Title P
Name JOHNSON, JACQUELINE P
Address 437 NE FRALEIGH DR
City-State-Zip: MADISON FL 32340

Title S
Name WARING, ELIZABETH J
Address 2830 NE COLIN KELLY HWY
City-State-Zip: MADISON FL 32340

Title T
Name ESTATE OF JACOB K JOHNSON, JR
Address 4773 US HWY 90 W
City-State-Zip: MADISON FL 32340

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: JACOB K JOHNSON, SR

VP

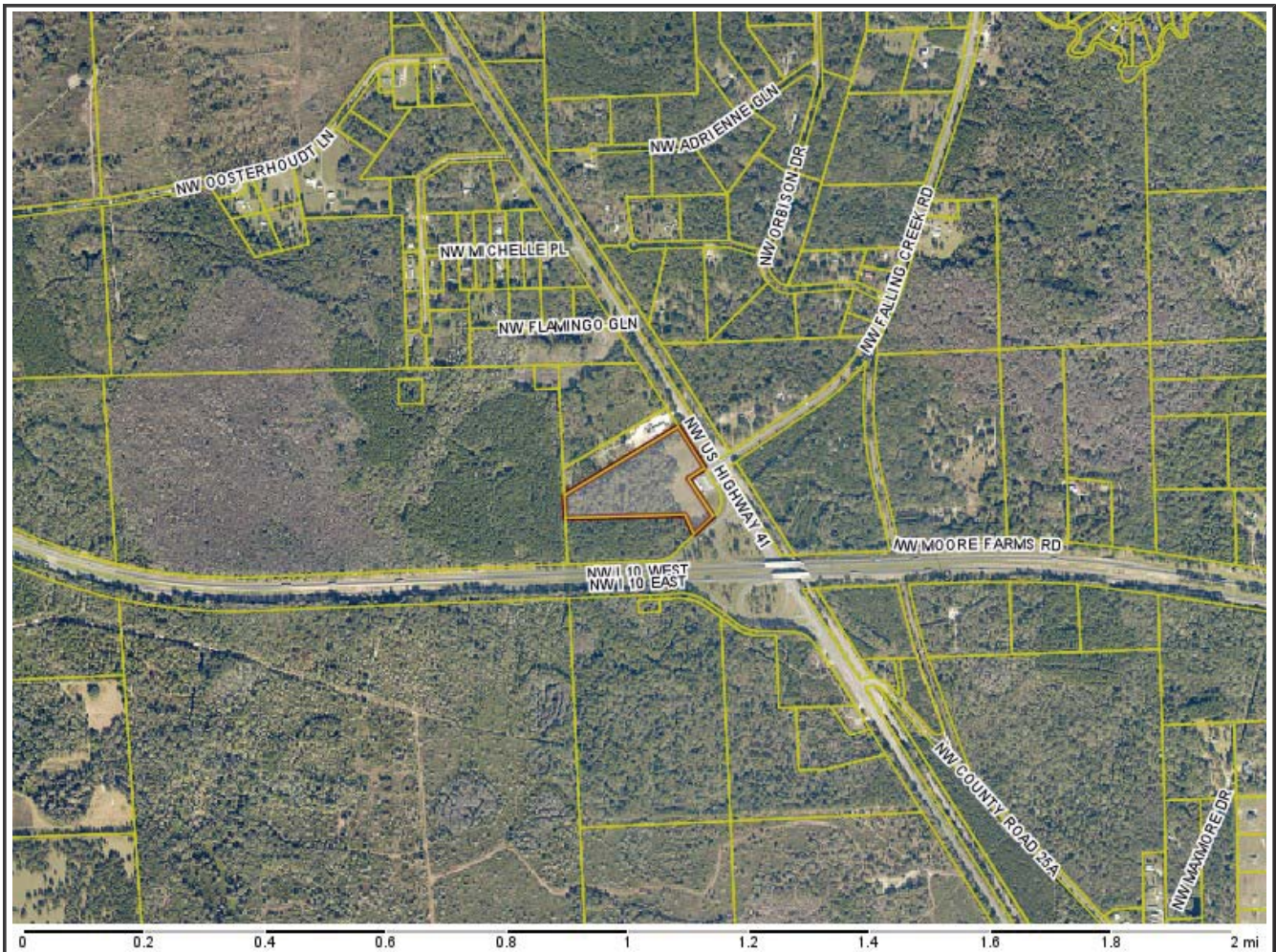
04/25/2016

Electronic Signature of Signing Officer/Director Detail

Date

Attachment 10

Proof of Payment of Taxes



Columbia County Property Appraiser Jeff Hampton | Lake City, Florida | 386-758-1083

PARCEL: 11-3S-16-02063-001 | VACANT COM (001000) | 14.24 AC
 BEG SW COR OF NE1/4 OF NE1/4, RUN N 200.3 FT, NE 1175.6 FT TO W R/W US-41, SE ALONG R/W 430 FT, SW 170 FT, SE 389.53 FT TO R/W I-75, SW ALONG R/W 233.

NOTES:



KINJAC CORPORATION THE		2018 Certified Values			
Owner:	P O BOX 157	Mkt Lnd	\$161,004	Appraised	\$161,004
	MADISON, FL 323410157	Ag Lnd	\$0	Assessed	\$161,004
Site:		Bldg	\$0	Exempt	\$0
Sales Info	8/31/1999 \$125,000 V(Q)	XFOB	\$0	Total county:	\$161,004
		Just	\$161,004	city:	\$161,004
				other:	\$161,004
				school:	\$161,004

This information was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, its use, or its interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office.

GrizzlyLogic.com



11-3S-16-02063-001
 KINJAC CORPORATION THE
 P O BOX 157
 11/3S/16 (VACANT COM) 14.24AC
 Txbt:\$161,004.00 Sale:8/31/1999 - \$125,000 - V/Q

Columbia County Property Appraiser Jeff Hampton | Lake City, Florida | 386-758-1083

PARCEL: 11-3S-16-02063-001 | VACANT COM (001000) | 14.24 AC
 BEG SW COR OF NE1/4 OF NE1/4, RUN N 200.3 FT, NE 1175.6 FT TO W R/W US-41, SE ALONG R/W 430 FT, SW 170 FT, SE 389.53 FT TO R/W I-75, SW ALONG R/W 233.

KINJAC CORPORATION THE		2018 Certified Values			
Owner: P O BOX 157		Mkt Lnd	\$161,004	Appraised	\$161,004
MADISON, FL 323410157		Ag Lnd	\$0	Assessed	\$161,004
Site:		Bldg	\$0	Exempt	\$0
Sales Info	8/31/1999 \$125,000 V(Q)	XFOB	\$0		
		Just	\$161,004	Total Taxable	county:\$161,004
					city:\$161,004
					other:\$161,004
					school:\$161,004

NOTES:



Columbia County, FL

This information, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office.

GrizzlyLogic.com

Columbia County Tax Collector

generated on 12/20/2018 11:20:54 AM EST

Tax Record

Last Update: 12/20/2018 11:20:34 AM EST

Register for eBill

Ad Valorem Taxes and Non-Ad Valorem Assessments

The information contained herein does not constitute a title search and should not be relied on as such.

Account Number	Tax Type	Tax Year		
R02063-001	REAL ESTATE	2018		
Mailing Address KINJAC CORPORATION THE P O BOX 157 MADISON FL 32341-0157		Property Address GEO Number 113S16-02063-001		
Exempt Amount	Taxable Value			
See Below	See Below			
Exemption Detail	Millage Code	Escrow Code		
NO EXEMPTIONS	003			
Legal Description (click for full description)				
11-3S-16 1000/1000 14.24 Acres BEG SW COR OF NE1/4 OF NE1/4, RUN N 200.3 FT, NE 1175.6 FT TO W R/W US-41, SE ALONG R/W 430 FT, SW 170 FT, SE 389.53 FT TO R/W I-75, SW ALONG R/W 233.3 FT, NW 185.3 FT TO S LINE OF NE1/4 OF NE1/4, CONT W 1057.53 FT TO POB. ORB 306-373, 887-165,				
Ad Valorem Taxes				
Taxing Authority	Rate	Assessed Exemption Value Amount	Taxable Value	Taxes Levied
BOARD OF COUNTY COMMISSIONERS	8.0150	161,004 0	\$161,004	\$1,290.45
COLUMBIA COUNTY SCHOOL BOARD				
DISCRETIONARY	0.7480	161,004 0	\$161,004	\$120.43
LOCAL	4.2010	161,004 0	\$161,004	\$676.38
CAPITAL OUTLAY	1.5000	161,004 0	\$161,004	\$241.51
SUWANNEE RIVER WATER MGT DIST	0.3948	161,004 0	\$161,004	\$63.56
LAKE SHORE HOSPITAL AUTHORITY	0.9620	161,004 0	\$161,004	\$154.89
Total Millage		15.8208	Total Taxes	\$2,547.22
Non-Ad Valorem Assessments				
Code	Levying Authority			Amount
FFIR	FIRE ASSESSMENTS			\$60.78
Total Assessments				\$60.78
Taxes & Assessments				\$2,608.00
If Paid By			Amount Due	
			\$0.00	

Date Paid	Transaction	Receipt	Item	Amount Paid
11/26/2018	PAYMENT	3501589.0001	2018	\$2,503.68

Prior Years Payment History

Prior Year Taxes Due
NO DELINQUENT TAXES

Columbia County Tax Collector

generated on 12/20/2018 11:21:36 AM EST

Tax Record

Last Update: 12/20/2018 11:21:16 AM EST

Register for eBill

Ad Valorem Taxes and Non-Ad Valorem Assessments

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Account Number	Tax Type	Tax Year		
R02063-000	REAL ESTATE	2018		
Mailing Address KINJAC CORPORATION THE P O BOX 157 MADISON FL 32341-0157		Property Address 4772 US HIGHWAY 41 NW LAKE CITY GEO Number 113S16-02063-000		
Exempt Amount	Taxable Value			
See Below	See Below			
Exemption Detail	Millage Code	Escrow Code		
NO EXEMPTIONS	003			
Legal Description (click for full description)				
11-3S-16 1126/1126 1.38 Acres COMM SW COR OF NE1/4 OF NE1/4, RUN N 200.30 FT, NE 1175.60 FT TO W R/W US-41, SE ALONG R/W 430 FT FOR POB, RUN SE 220 FT, SW ALONG CURVE 215.32 FT, NW NW 389.53 FT, NE 170 FT TO POB. (PART IN SEC 12-3S-16). 420-312, 546-390,				
Ad Valorem Taxes				
Taxing Authority	Rate	Assessed Exemption Value Amount	Taxable Value	Taxes Levied
BOARD OF COUNTY COMMISSIONERS	8.0150	830,840 0	\$830,840	\$6,659.18
COLUMBIA COUNTY SCHOOL BOARD				
DISCRETIONARY	0.7480	830,840 0	\$830,840	\$621.47
LOCAL	4.2010	830,840 0	\$830,840	\$3,490.36
CAPITAL OUTLAY	1.5000	830,840 0	\$830,840	\$1,246.26
SUWANNEE RIVER WATER MGT DIST	0.3948	830,840 0	\$830,840	\$328.02
LAKE SHORE HOSPITAL AUTHORITY	0.9620	830,840 0	\$830,840	\$799.27
Total Millage	15.8208	Total Taxes	\$13,144.56	
Non-Ad Valorem Assessments				
Code	Levying Authority			Amount
FFIR	FIRE ASSESSMENTS			\$1,072.44
Total Assessments				\$1,072.44
Taxes & Assessments				\$14,217.00
If Paid By			Amount Due	
			\$0.00	

Date Paid	Transaction	Receipt	Item	Amount Paid
11/26/2018	PAYMENT	3501589.0008	2018	\$13,648.32

Prior Years Payment History

Prior Year Taxes Due
NO DELINQUENT TAXES