

WILLBROOK PLANTATION DRAINAGE IMPROVEMENTS

PAWLEYS ISLAND, SOUTH CAROLINA 29585

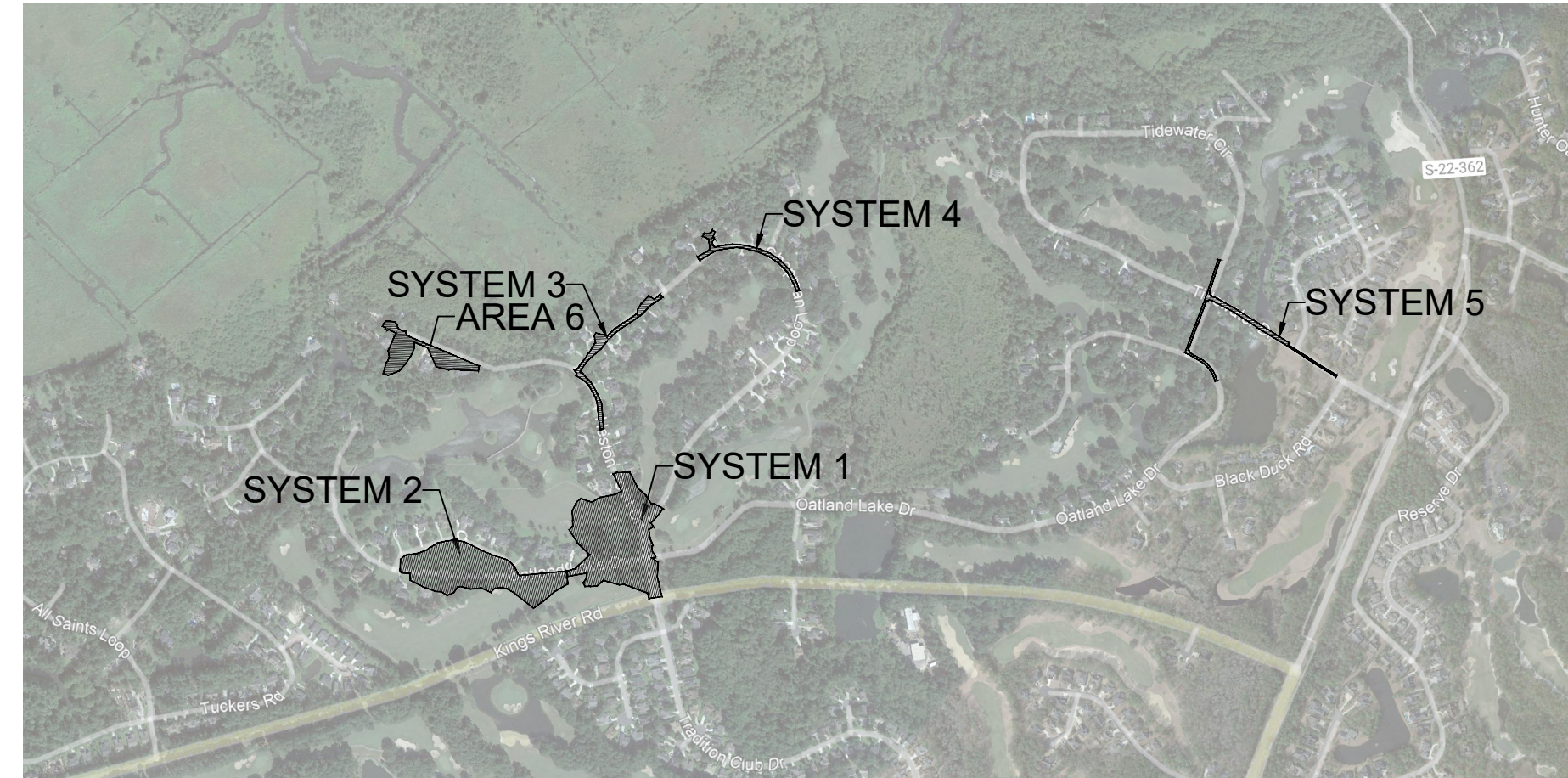
CONSTRUCTION PLAN

GENERAL NOTES

- UNLESS OTHERWISE NOTED IN THE PLANS OR SUPPLEMENTAL SPECIFICATIONS, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION".
- SURVEY HAS BEEN PROVIDED BY IPW CONSTRUCTION GROUP, LLC. THE DATE SURVEYED IS OCTOBER 2021.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF THE CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL DEMOLITION WASTE EXCAVATED SOIL AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL, FEDERAL, AND STATE CODES AND PERMIT REQUIREMENTS.
- CONTRACTOR SHALL PROTECT, AT ALL TIMES, ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
- SAWCUT NEAT, STRAIGHT, SHARP LINES WITH VERTICAL EDGES WHERE PROPOSED PAVEMENT GRADES MEET EXISTING PAVEMENT AND SIDEWALK GRADES.
- ALL EXISTING UNDERGROUND UTILITIES, UTILITY POLES, GUY WIRES, AND HYDRANTS UNLESS OTHERWISE NOTED SHALL NOT BE DISTURBED BY THE CONTRACTORS DEMOLITION EFFORTS.
- EXISTING CURB AND GUTTER AND CONCRETE SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT. NO PATCHING WILL BE PERMITTED.
- CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES AND ESPECIALLY EXISTING OVERHEAD POWER LINES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SAFETY AS MANDATED BY OSHA, THE MUNICIPALITY, OR THE OWNERS AUTHORIZED REPRESENTATIVE.
- CONTRACTOR TO INSTALL WASTOP NPS TIDAL CHECK VALVE AS MANUFACTURED BY WAPRO, OR APPROVED EQUAL PRODUCT, AT THE OUTFALL OF THE INDIVIDUAL STORM DRAIN SYSTEMS NOTED. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CHECK VALVE WITHIN THE OUTFALL PIPE WITH ENGINEER PRIOR TO INSTALLATION.
- MODIFICATIONS TO OUTFALL LOCATIONS MAY REQUIRE ADDITIONAL ENVIRONMENTAL PERMITTING EFFORTS. A WETLAND DELINEATION OF THESE AREAS WILL BE REQUIRED PRIOR TO FINAL DESIGN. DHEC AND USACE PERMITS MAY BE REQUIRED DEPENDING ON THE RESULTS OF THE AFOREMENTIONED DELINEATIONS.

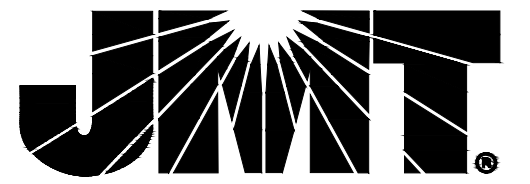
DRAWING SHEET INDEX

NO.	TITLE
C-001	COVER SHEET AND NOTES
C-100	OVERALL SITE KEYMAP
C-101	SITE PLAN - SYSTEM 1
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C-501	DETAILS



VICINITY MAP

SCALE: 1" = 1,000'



235 MAGRATH DARBY BLVD., SUITE 275 |
MT. PLEASANT, SC 29464
P: (843) 556-2624 | www.jmt.com

SEAL:

PREPARED FOR:

**WILLBROOK
PLANTATION HOA**
426 TIDEWATER CIRCLE
PAWLEYS ISLAND, SC 29585

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT:

**WILLBROOK
PLANTATION
DRAINAGE
IMPROVEMENTS**

PROJECT LOCATION:

PAWLEYS ISLAND
SOUTH CAROLINA 29585

PROJECT NUMBER:

21-00881-001

DATE:

06/27/2022

SCALE:

AS NOTED

PLAN SET:

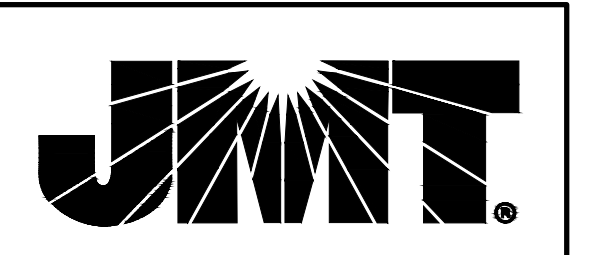
CONSTRUCTION PLAN

DRAWING TITLE:

COVER SHEET AND
NOTES

DRAWING NUMBER:

C-001



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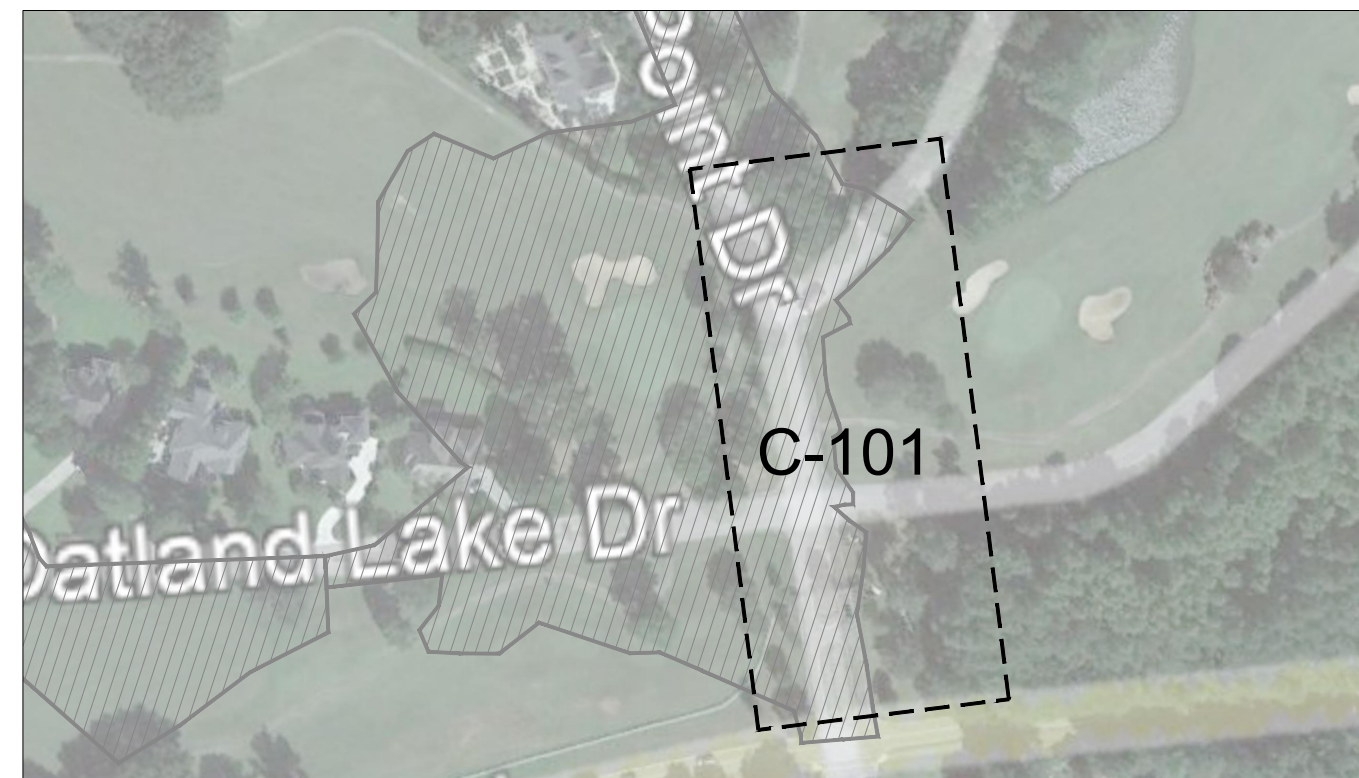
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 CONSTRUCTION PLAN

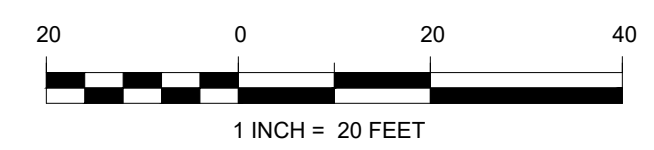
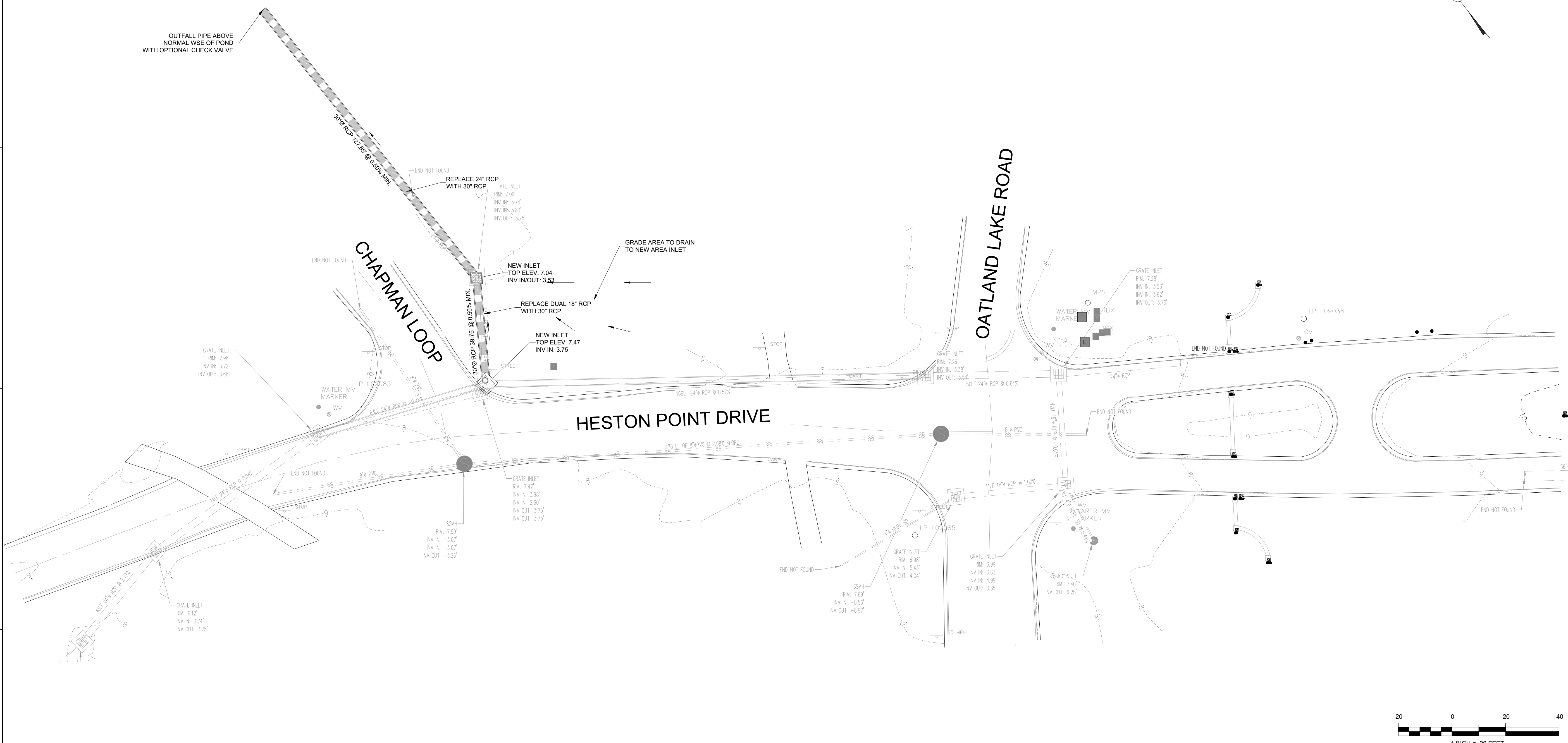
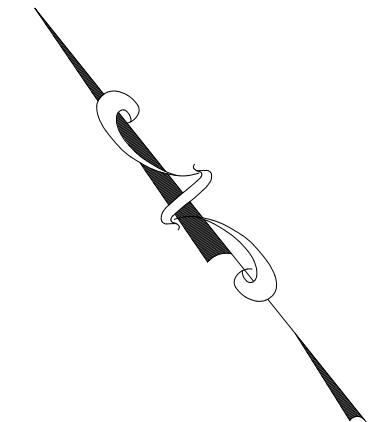
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**OVERALL SITE
 KEYMAP**

DRAWING NUMBER:
C-100

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KEYMAP



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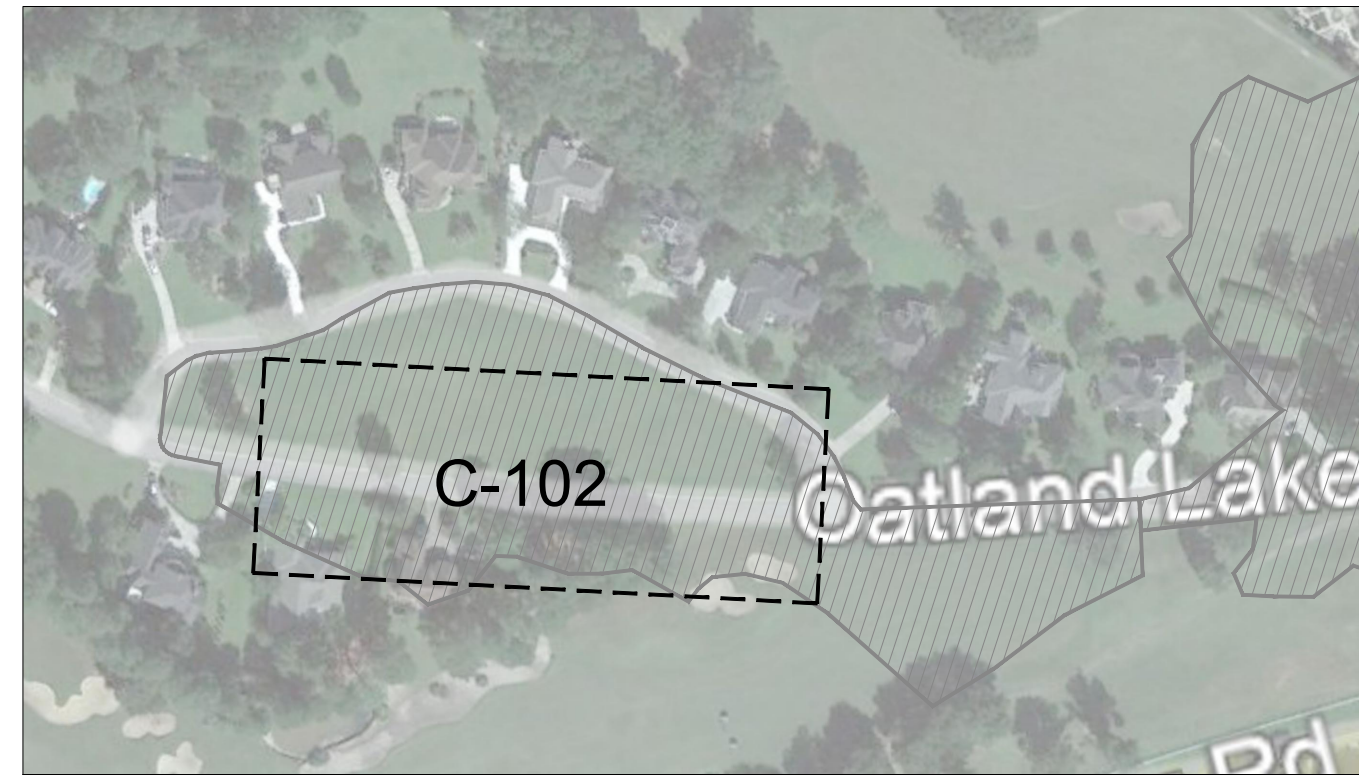
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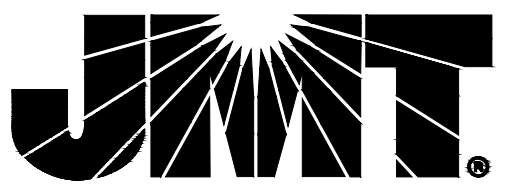
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DRAWING NUMBER:
C-101

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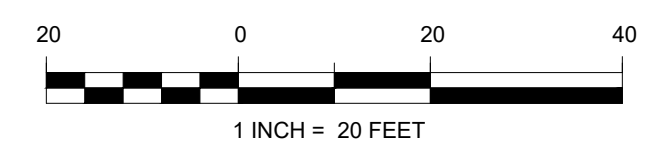
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PLAN SET:
 CONSTRUCTION PLAN

DRAWING TITLE:
 SITE PLAN - SYSTEM 2

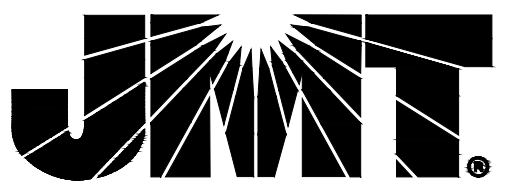
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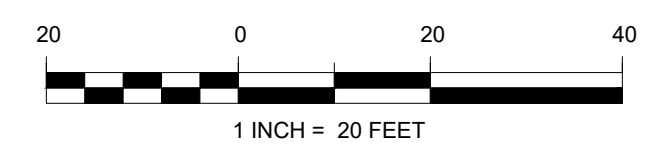
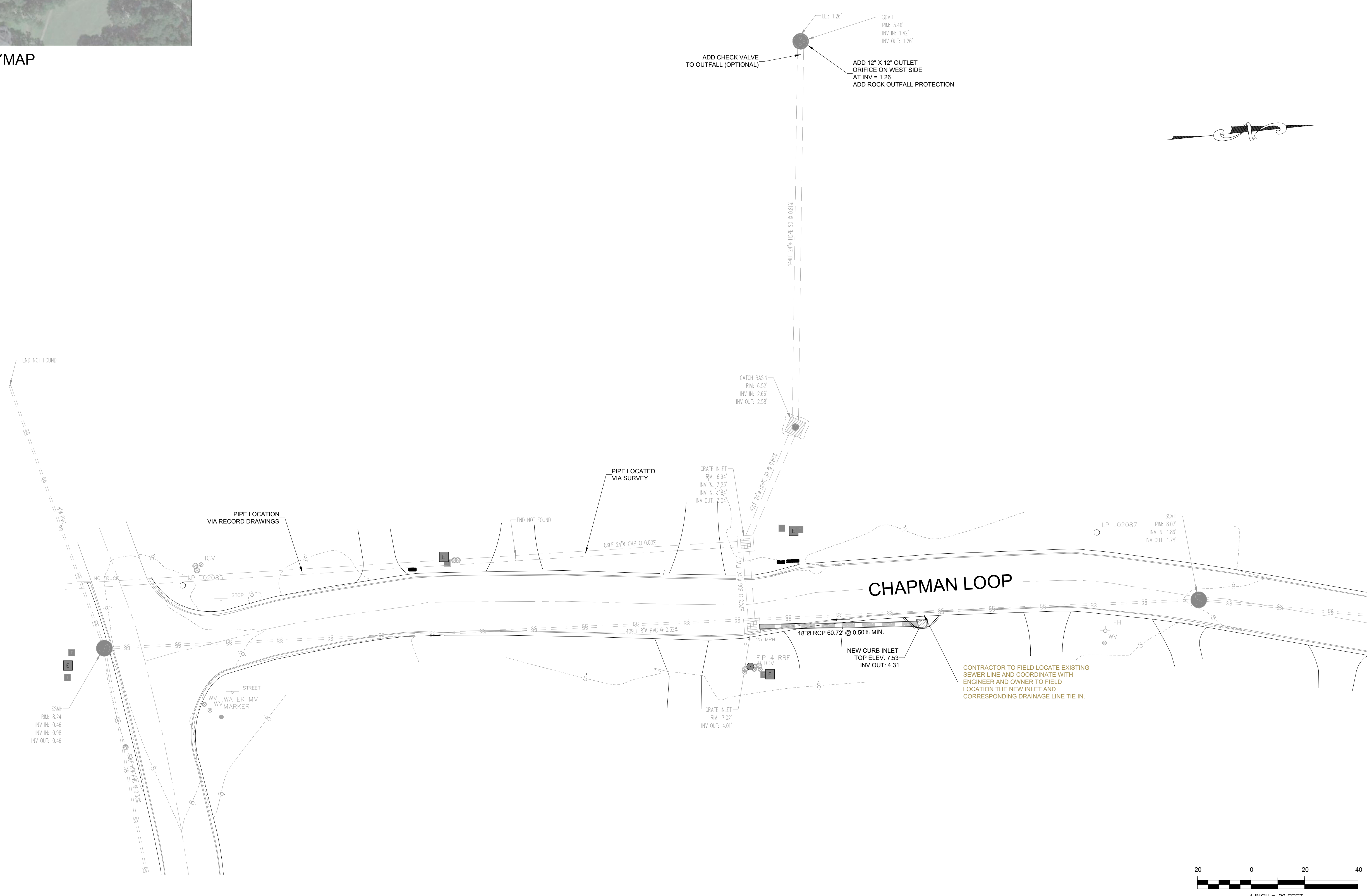
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06/27/2022

SCALE:
1" = 20'

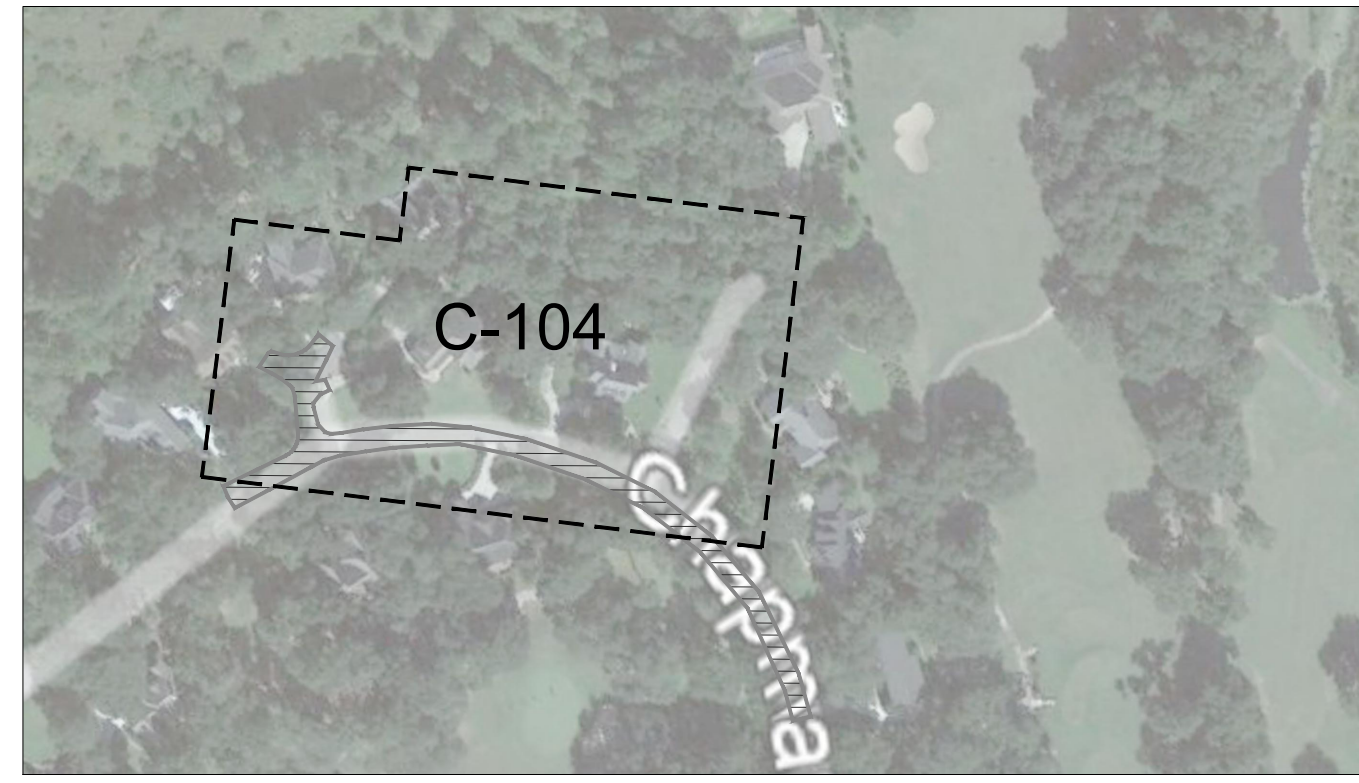
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CONSTRUCTION PLAN

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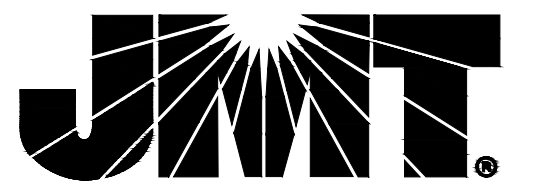
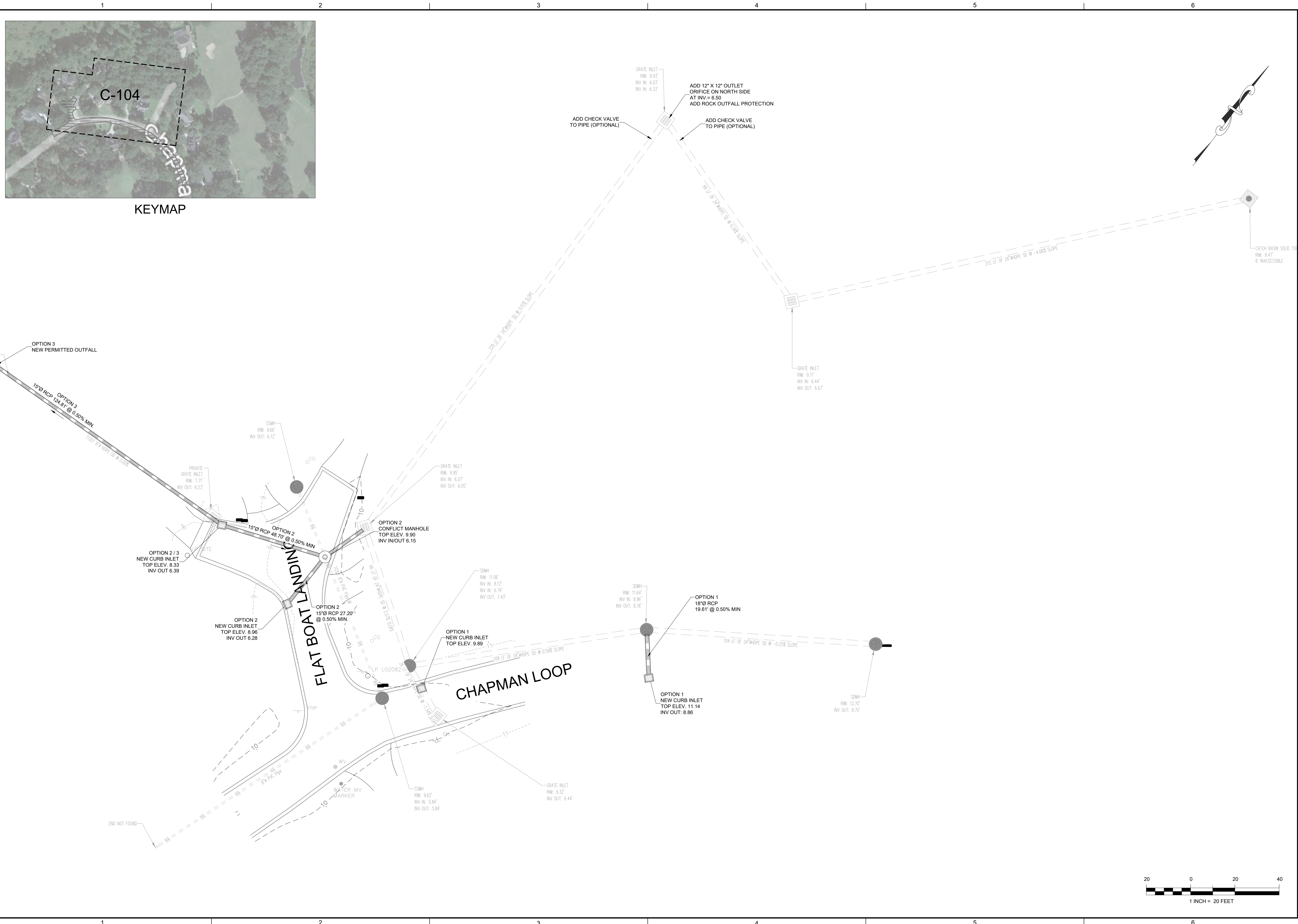
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REVISIONS

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WILLBROOK PLANTATION DRAINAGE IMPROVEMENTS

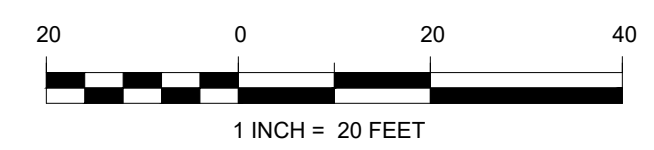
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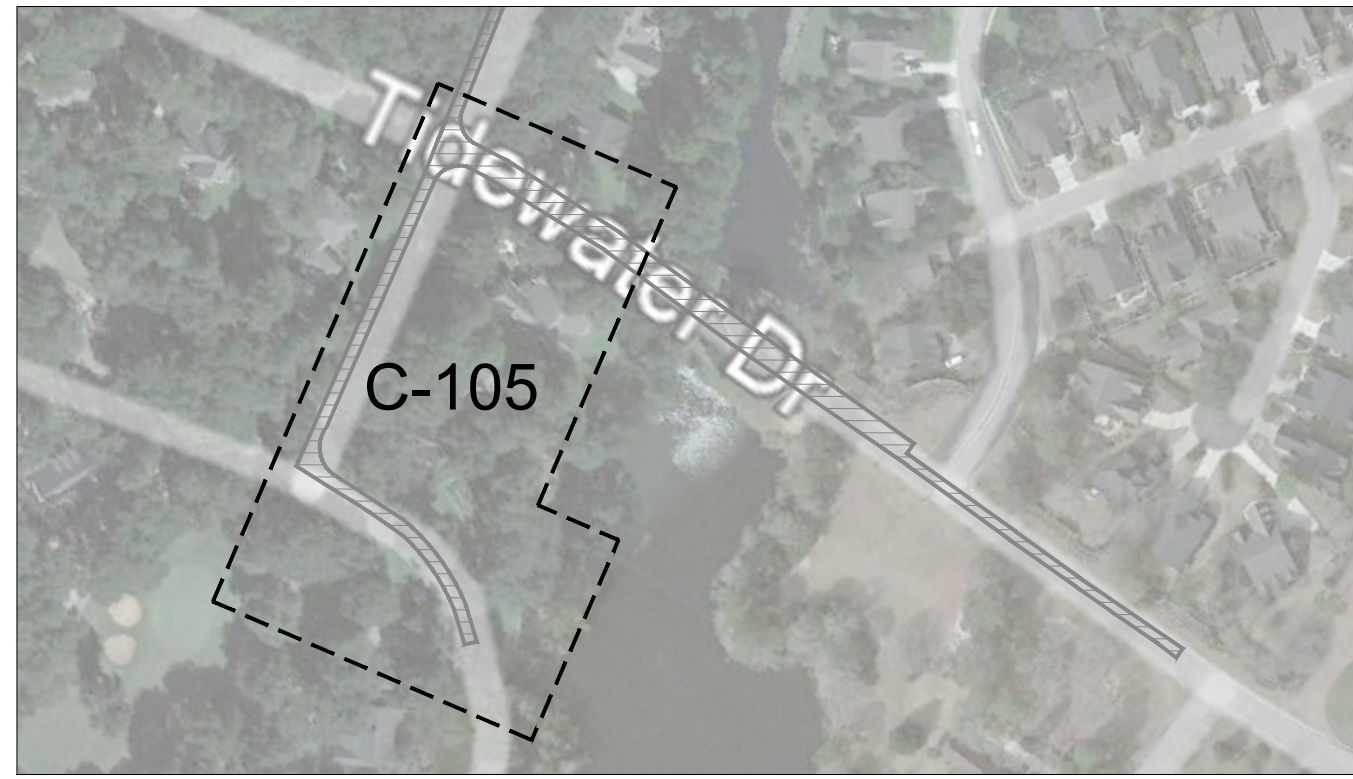
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 CONSTRUCTION PLAN

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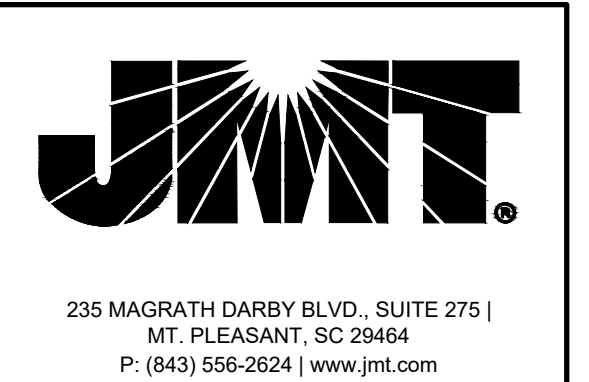
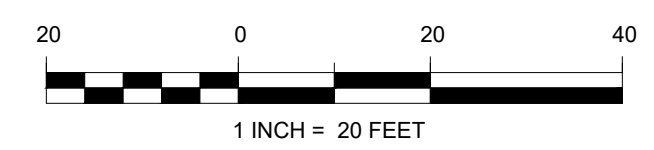
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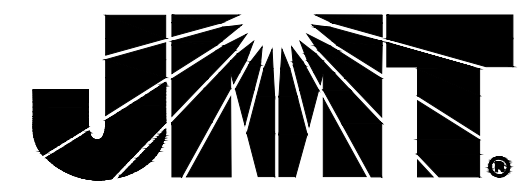
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PLAN SET:
CONSTRUCTION PLAN

DRAWING TITLE:
SITE PLAN - SYSTEM 5

DRAWING NUMBER:
C-105

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 21-00881-001

DATE: 06/27/2022 SCALE: 1" = 20'

PLAN SET:
 CONSTRUCTION PLAN

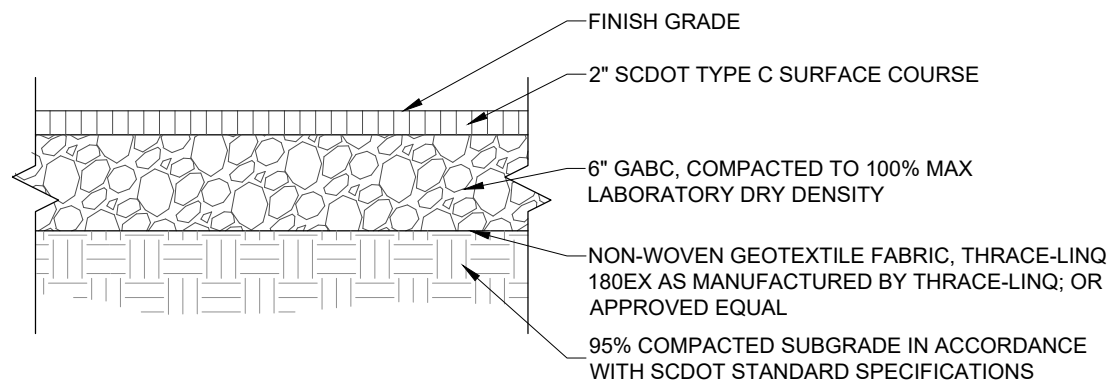
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 SITE PLAN - SYSTEM 6

DRAWING NUMBER:
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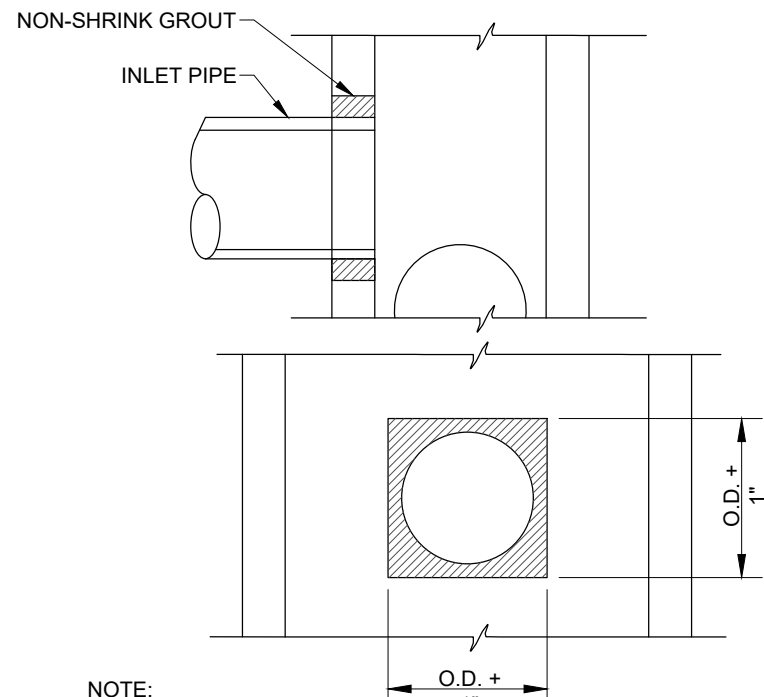
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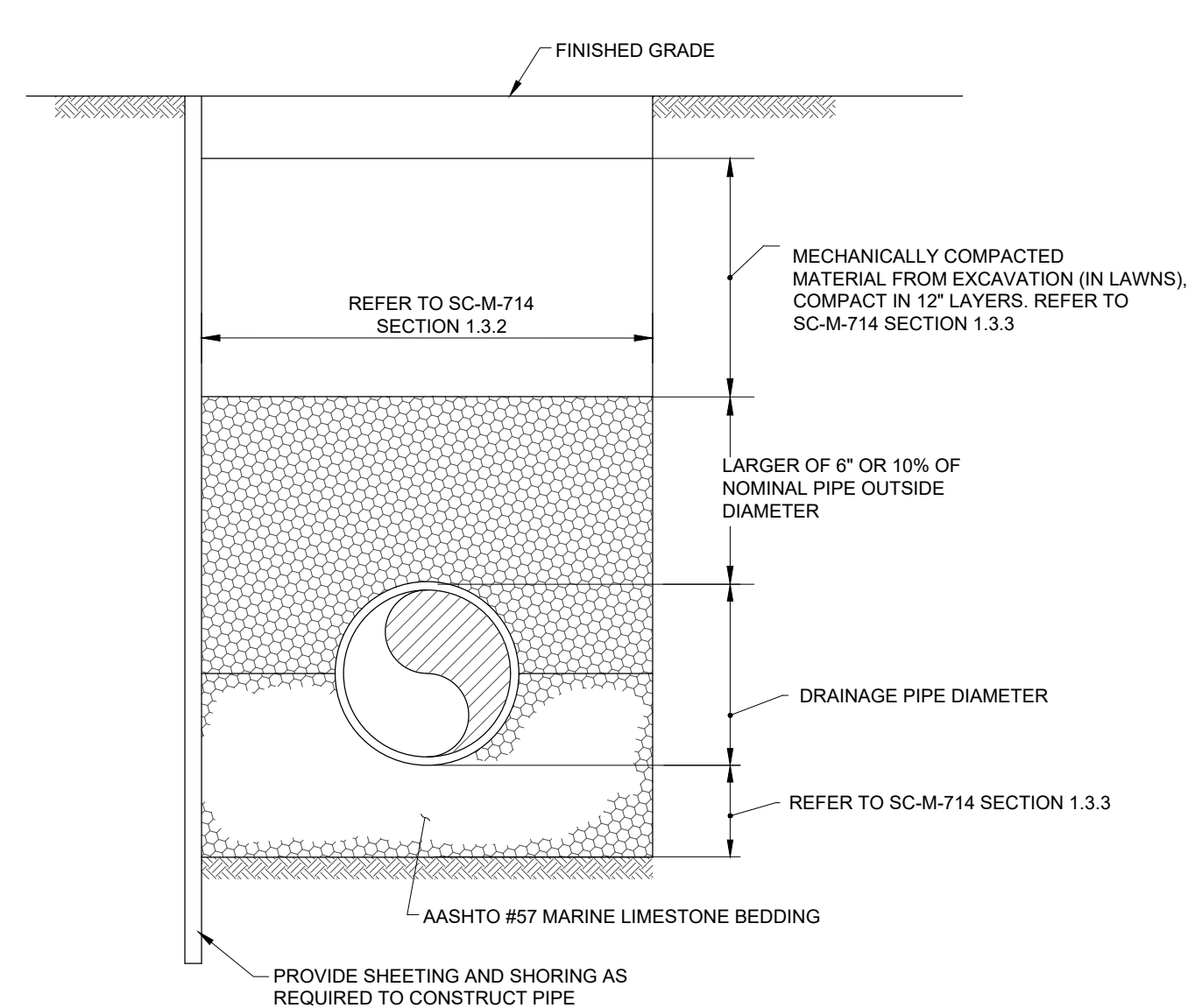
- NOTE:
- CONTRACTOR SHALL UTILIZE THIS SECTION FOR FULL DEPTH PAVEMENT REPAIR AND REPLACEMENT.
 - GRADED AGGREGATE BASE COURSE (GABC) SHALL BE IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 305.
 - PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATIONS SC-M-714. FOR EACH INLET STRUCTURE, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE TO SUITABLE SUBGRADE SOIL. THE CONTRACTOR WILL BE REQUIRED TO BACKFILL THE BOTTOM OF THE TRENCH WITH #57 MARINE LIMESTONE WRAPPED IN GEOTEXTILE.

01 BITUMINOUS ROADWAY
C-501 NOT TO SCALE



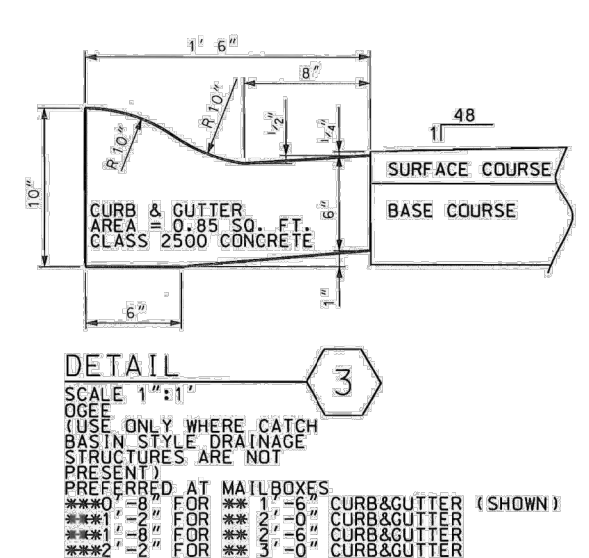
- NOTE:
- EXISTING INLET WALL TO BE SAWCUT NEAT AND SQUARE.

02 EXISTING INLET CONNECTION
C-501 NOT TO SCALE

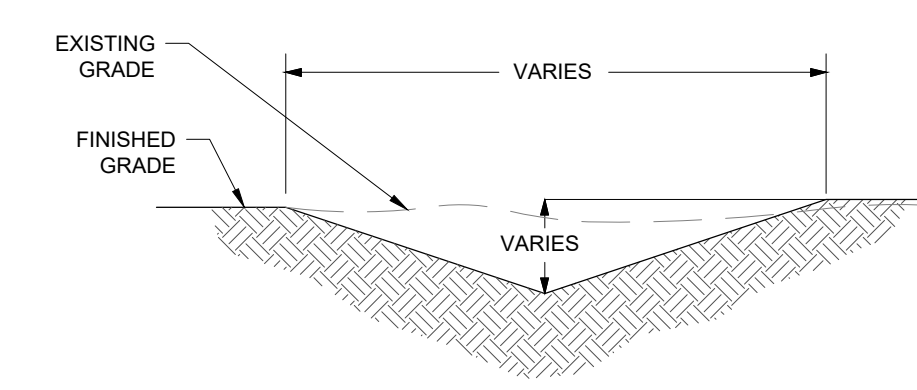


- NOTES:
- PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION SC-M-714. FOR EACH INLET STRUCTURE, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE TO SUITABLE SUBGRADE SOIL. THE CONTRACTOR WILL BE REQUIRED TO BACKFILL THE BOTTOM OF THE TRENCH WITH #57 MARINE LIMESTONE WRAPPED IN GEOTEXTILE.

03 STORM DRAINAGE PIPE TRENCH SECTION
C-501 NOT TO SCALE



04 ROLLED CURB
C-501 NOT TO SCALE



- NOTES:
- SWALE VEGETATION SHALL BE GRASS OR OTHER VEGETATION
 - MINIMUM DEPTH FOR VEGETATED SWALE SHALL BE 1 FOOT

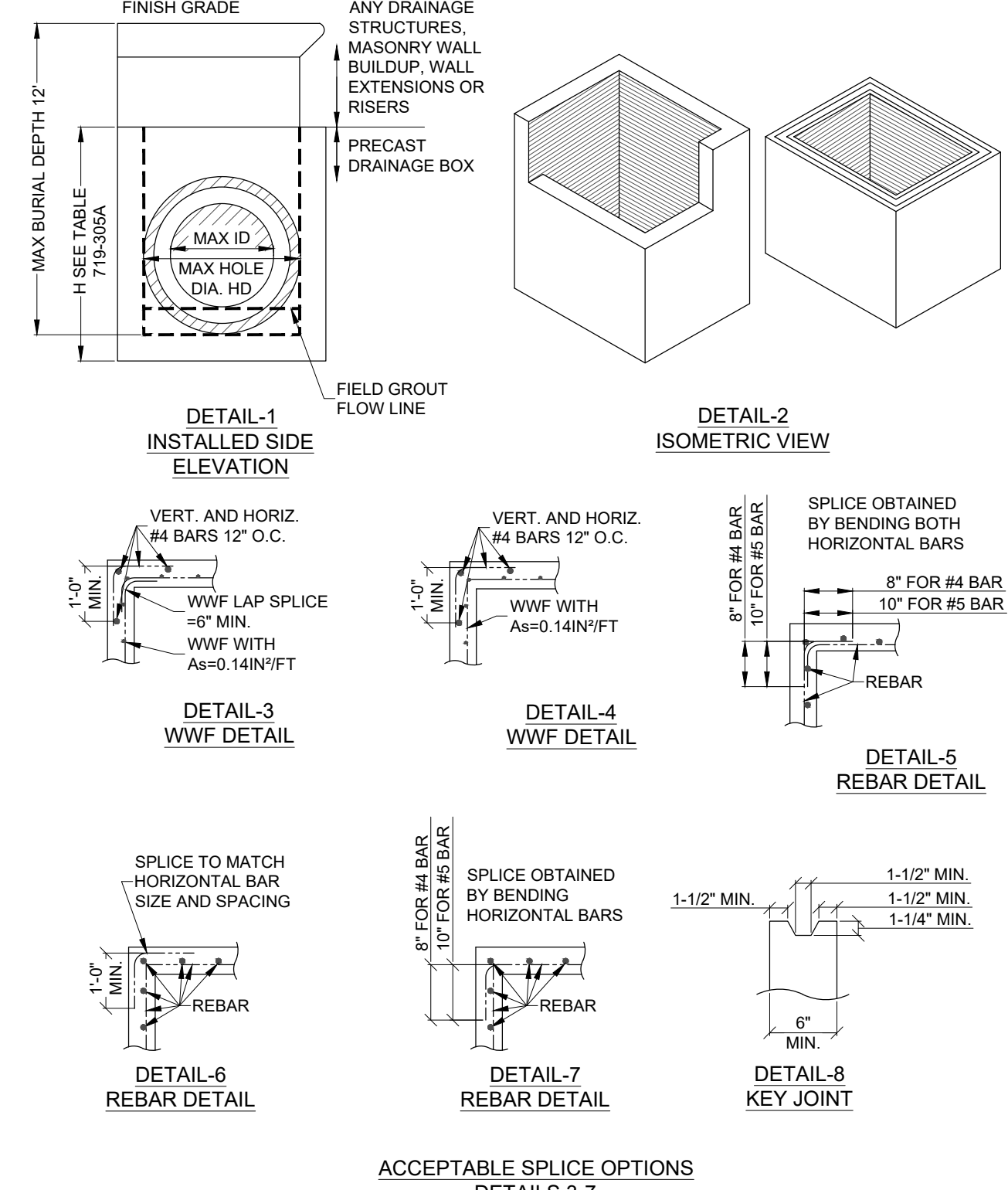
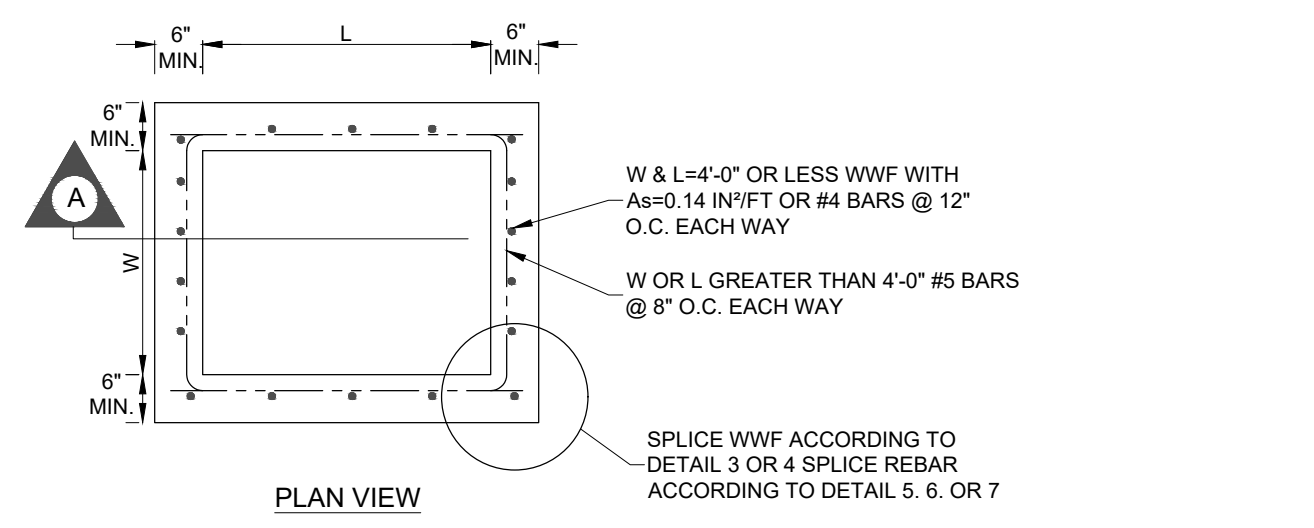
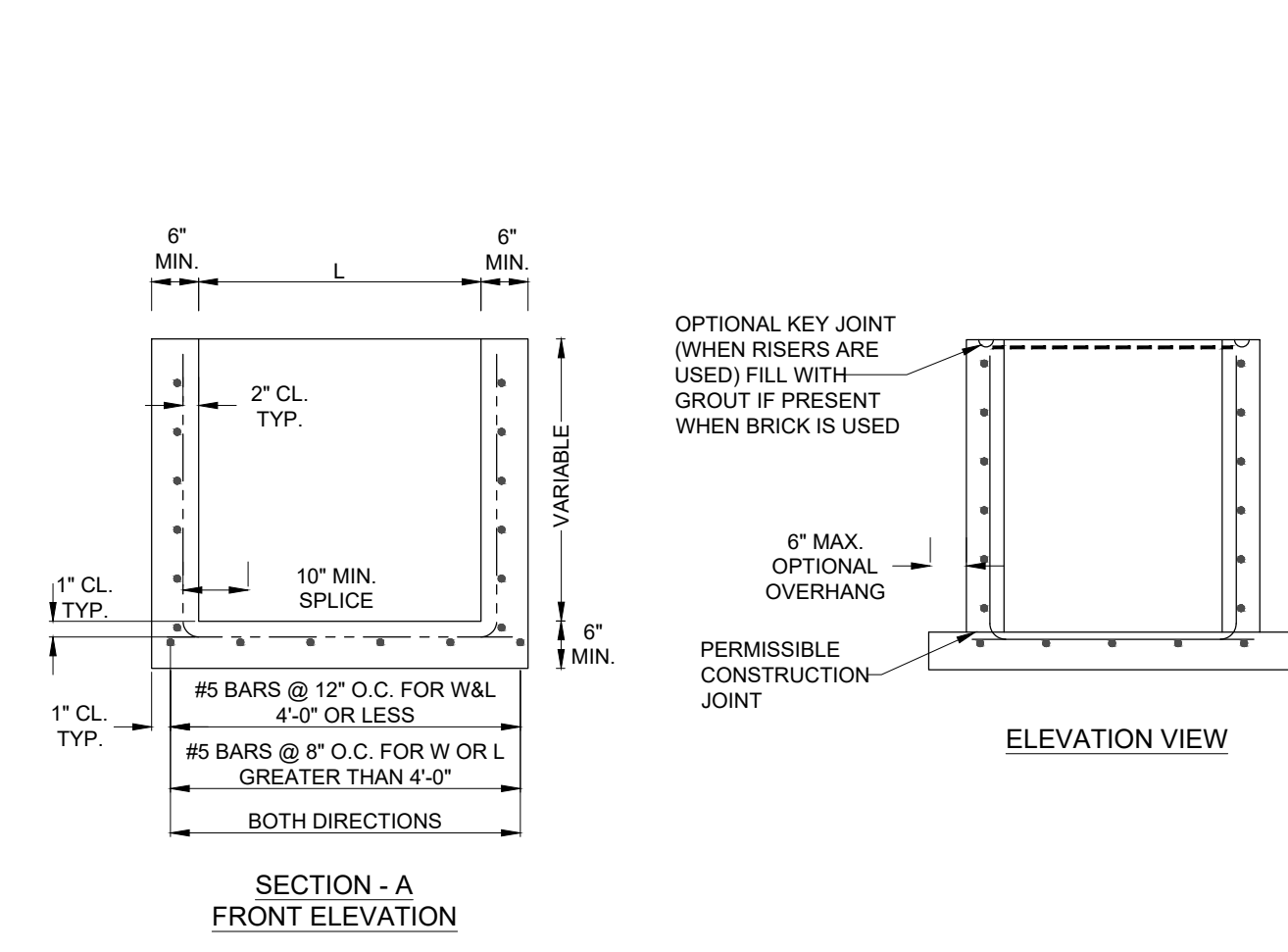
05 VEGETATED SWALE
C-501 NOT TO SCALE

TABLE 719-305A

STANDARD BOX SIZE* (WXLH)	SUGGESTED MAX. PIPE OUTSIDE DIA. (OD) SEE 714	MAX. HOLE DIA. IN (LONG SIDE OF BOX) (HD)
2'X2'X2'	23"	24"
2'X2'X3'	23"	24"
2'X2'X4'	23"	24"
2'X2'X5'	23"	24"
2'X2'X6'	23"	24"
2'X3'X2'	23"	24"
2'X3'X3'	35"	36"
2'X3'X4'	35"	36"
2'X3'X5'	35"	36"
2'X3'X6'	35"	36"
2'X4'X2'	23"	24"
2'X4'X3'	35"	36"
2'X4'X4'	47"	48"
2'X4'X5'	47"	48"
2'X4'X6'	47"	48"
3'X3'X2'	23"	24"
3'X3'X3'	35"	36"
3'X3'X4'	35"	36"
3'X3'X5'	35"	36"
3'X3'X6'	35"	36"
3'X4'X2'	23"	24"
3'X4'X3'	35"	36"
3'X4'X4'	47"	48"
3'X4'X5'	47"	48"
3'X4'X6'	47"	48"
3'X5'X2'	23"	24"
3'X5'X3'	35"	36"
3'X5'X4'	47"	48"
3'X5'X5'	58"	60"
3'X5'X6'	58"	60"
3'X6'X2'	23"	24"
3'X6'X3'	35"	36"
3'X6'X4'	47"	48"
3'X6'X5'	58"	60"
3'X6'X6'	72"	72"
4'X4'X2'	23"	24"
4'X4'X3'	35"	36"
4'X4'X4'	47"	48"
4'X4'X5'	47"	48"
4'X4'X6'	47"	48"
4'X5'X2'	23"	24"
4'X5'X3'	35"	36"
4'X5'X4'	47"	48"
4'X5'X5'	58"	60"
4'X5'X6'	58"	60"
4'X6'X2'	23"	24"
4'X6'X3'	35"	36"
4'X6'X4'	47"	48"
4'X6'X5'	58"	60"
4'X6'X6'	72"	72"
5'X5'X2'	23"	24"
5'X5'X3'	35"	36"
5'X5'X4'	47"	48"
5'X5'X5'	58"	60"
5'X5'X6'	58"	60"
5'X6'X2'	23"	24"
5'X6'X3'	35"	36"
5'X6'X4'	47"	48"
5'X6'X5'	58"	60"
5'X6'X6'	72"	72"
6'X6'X2'	23"	24"
6'X6'X3'	35"	36"
6'X6'X4'	47"	48"
6'X6'X5'	58"	60"
6'X6'X6'	72"	72"
6'X6'X7'	72"	72"

- GENERAL NOTES:
- PRECAST CONCRETE MANUFACTURER MUST HAVE THEIR BOX INCLUDED ON THE DEPARTMENT'S QUALIFIED PRODUCT LIST 14 PRIOR TO FABRICATION. DESIGN CALCULATION AND ENGINEERING DRAWINGS OF EACH SIZE BOX (W X L) MUST BE PREPARED. VARIABLE DEPTHS (H) MAY BE INCLUDED ON THE SAME DRAWING. ENGINEERING DRAWINGS SHOULD BE PROVIDED ON 11"x17" SHEET. DRAWING MUST INCLUDE ALL DIMENSIONS, CLEARANCES, STEEL LAYOUT DETAILS AND CONSTRUCTION NOTES. EACH ENGINEERING DRAWING MUST STATE THE ASTM SPECIFICATION THAT IT MEETS AND ALL MATERIAL SPECIFICATIONS. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA MUST SIGN AND SEAL ALL ENGINEERING DRAWINGS AND DESIGN CALCULATIONS. SUBMITTALS MUST INCLUDE ONE ORIGINAL AND TWO COPIES OF THE DESIGN CALCULATIONS WITH DRAWINGS AS SPECIFIED ABOVE.
 - PRECAST CONCRETE COMPONENTS FOR DRAINAGE ITEMS AT EACH LOCATION MUST BE SUPPLIED FROM A SINGLE SOURCE PRECAST MANUFACTURER THAT HAS BEEN INSPECTED AND APPROVED BY THE MATERIALS AND RESEARCH ENGINEER.
 - THE PRECAST CONCRETE DRAINAGE BOX MAY BE USED WITH THE FOLLOWING DRAINAGE STRUCTURES:

CATCH BASIN TYPE 1	CATCH BASIN TYPE 17
CATCH BASIN TYPE 1 (SPECIAL)	CATCH BASIN TYPE 18
CATCH BASIN TYPE 9 & TYPE 9 MH DROP INLETS	JUNCTION BOXES
CATCH BASIN TYPE 12	INCLUDING ALL INLET ADAPTORS
CATCH BASIN TYPE 16	
 - DESIGN FOR PRECAST DRAINAGE STRUCTURES MUST MEET OR EXCEED ASTM C 890 OF ASTM C 913 AND THE DESIGN REQUIREMENTS SHOWN ON THIS SHEET. ALL DESIGN COMPUTATIONS WILL BE PROVIDED FOR A DEPTH OF 12'-0". A JOINT DESIGN FOR RISERS AND TOP OF BOX MUST ALSO BE PROVIDED.
 - THE BURIAL DEPTH FROM THE TOP OF THE DRAINAGE BOX BOTTOM SLAB TO THE TOP OF THE GROUND SHALL NOT EXCEED 12'-0".
 - DRAWINGS OF PRECAST DRAINAGE BOX WITH SOLID WALLS SHALL INDICATE LOCATION OF CONSTRUCTION JOINTS & ADDITIONAL CONSTRUCTION DETAILS REQUIRED BY THE MANUFACTURER.
 - ONLY THOSE STRUCTURES SIZES (W X L X H) SHOWN IN TABLE 719-305A WILL BE SUBMITTED FOR DESIGN APPROVAL.
 - DURING MANUFACTURING, DRAINAGE BOX SIZES (W X L X H), MAY VARY BETWEEN THE APPROVED DESIGN BOX SIZES. WHEN DRAINAGE BOX SIZE HEIGHT 'H', WIDTH 'W' OR LENGTH 'L' FALLS BETWEEN THE APPROVED DESIGN SIZES, THE BOX WITH GREATER SIZES MUST BE USED FOR DESIGN OF THAT BOX. BOX HEIGHT 'H' GREATER THAN THE MAXIMUM APPROVED DESIGN SIZES WILL NOT BE STANDARD.
- MATERIAL NOTES:
- CONCRETE FOR PRECAST STRUCTURES SHALL BE CLASS 4000P MEETING THE REQUIREMENTS OF SECTION 701 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 - REINFORCEMENT STEEL SHALL BE ASTM A-706, LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55, OR M 221.
- DETAIL NOTES:
- BRICK MASONRY OR CLASS 4000 CONCRETE MAY BE USED TO FINISH THE PORTION ABOVE THE TOP OF THE BOX (2 FT. MAX.) TO BRING TO GRADE OR TO COMPLETE AN INLET STRUCTURE. THESE MATERIALS SHALL CONFORM TO SECTION 719 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 - LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES SHALL BE GROUTED PRIOR TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET OSHA REGULATIONS.
 - FORM OPENINGS FOR PIPE AS REQUIRED TO ACCOMMODATE PIPE SIZE AND LOCATION SPECIFIED. ORIENT PRECAST DRAINAGE STRUCTURE SO THAT PIPES ENTER THROUGH THE WALLS. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE TO THE TOP OF THE BOX OR TO ANOTHER OPENING.
 - DURING MANUFACTURING OF THE PRECAST DRAINAGE BOX, THE WALL (FULL THICKNESS) MAY BE EXTENDED A MAXIMUM OF 2 FEET ABOVE THE TOP OF THE BOX TO BRING TO GRADE OR TO COMPLETE AN INLET STRUCTURE. IF THIS OPTION IS TO BE USED, THE SHOP DRAWING SUBMITTAL MUST INCLUDE ALL DIMENSIONS AND DETAILS FOR THESE BOXES. CONTINUE REINFORCEMENT FROM BOX INTO THE EXTENDED HEIGHT.
 - TOP OF WALL SHALL BE CAST WITH A KEY JOINT WHEN PRECAST RISERS ARE USED.
 - THE HEIGHT OF PRECAST DRAINAGE BOX WITH SOLID WALLS CAN BE INCREASED BY USE OF RISERS TO THE REQUIRED DEPTH UP TO A MAXIMUM BURIAL DEPTH OF 12" (SEE STD. 719-315-00).
 - JOINTS SHALL BE SEALED WITH A FLEXIBLE BUTYL OR BITUMINOUS SEALANT CONFORMING TO AASHTO M 199.
 - WHEN BURIAL DEPTH EXCEEDS 4'-6", PLACE STEPS IN ACCORDANCE WITH STANDARD DRAWING NO. 719-550-00.
 - GROUT THE FLOW LINE FROM THE BASE TO THE OUTLET PIPE TO MAINTAIN A CONTINUOUS FLOW. GROUT SHALL BE TYPE M MORTAR MATERIAL IN ACCORDANCE WITH SECTION 718 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 - THE MINIMUM STEEL REINFORCEMENT REQUIRED FOR ALL BOX SIZES SHALL BE AS SHOWN ON THIS SHEET.
 - PRECAST CONCRETE CIRCULAR STRUCTURES (AS SHOWN ON 719-420-00) ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS.
 - ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 12 FEET.
 - ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR HIGHER THAN THE INSIDE TOP (SOFFIT) OF THE OUTLET PIPE.
 - AS REQUIRED BY THE PROJECT PLANS.

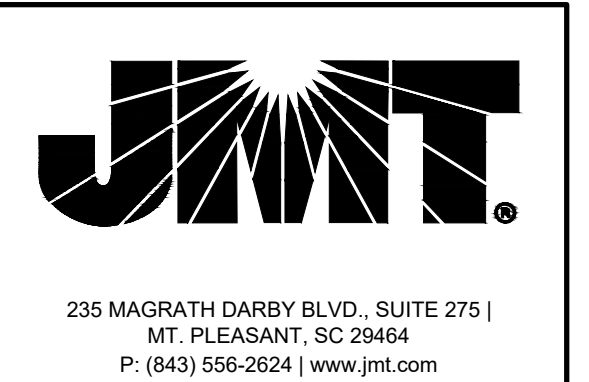


ACCEPTABLE SPLICE OPTIONS DETAILS 3-7

MAX PIPE OUTSIDE DIAMETER = HD-0.5" TO FIND MAX HOLE DIA. IN SHORT SIDE. FIND SQUARE BOX WITH SAME H. [IE: 3'X5'X5' BOX=>3'X3'X5=>HD=36" IN THE 3' SIDE] [IE: 4'X6'X5' BOX=>4'X4'X5=>HD=48" IN THE 4' SIDE]

* NOTE: ALL PROPOSED INLETS ARE TO HAVE A 1-FOOT SUMP AT THE BOTTOM OF THE STRUCTURE FOR SEDIMENT AND DEBRIS COMPLIANCE IN ACCORDANCE WITH SECTION 3.4.6.5.12 OF THE CHARLESTON STORMWATER DESIGN STANDARDS MANUAL.

06 CATCH BASIN (SCDOT STANDARD DETAIL 819-305-00 - DRAINAGE SUBSTRUCTURE RECTANGULAR)
C-501 NOT TO SCALE



PREPARED FOR:
WILLBROOK PLANTATION HOA
426 TIDEWATER CIRCLE
PAWLEYS ISLAND, SC 29585

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT:
WILLBROOK PLANTATION DRAINAGE IMPROVEMENTS

PROJECT LOCATION:
PAWLEYS ISLAND
SOUTH CAROLINA 29585

PROJECT NUMBER:
21-00881-001

DATE: 06/27/2022

SCALE: AS NOTED

PLAN SET:
CONSTRUCTION PLAN

DRAWING TITLE:
DETAILS

DRAWING NUMBER:
C-501

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