# DREDGED MATERIAL MANAGEMENT AREA M-8 CONSTRUCTION

## ST. LUCIE COUNTY, FLORIDA

# APPENDIX A

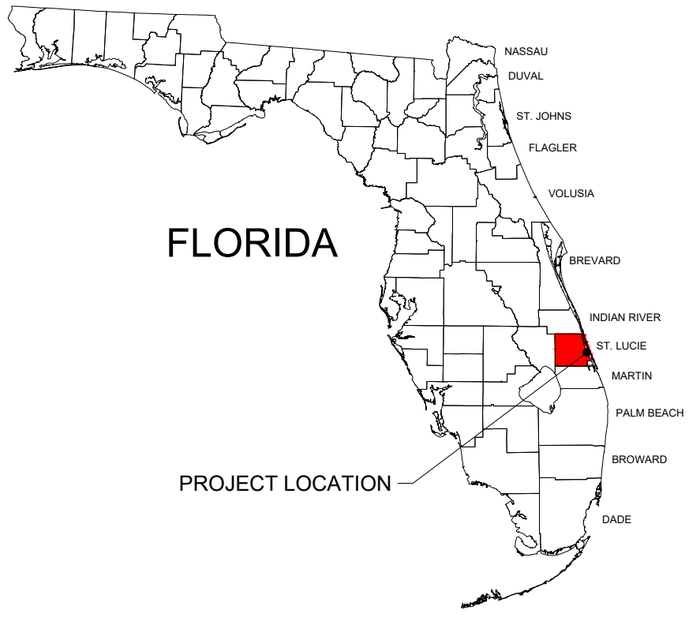
## Project Drawings


**10151 Deerwood Park Blvd**
**Bldg 300, Suite 300**
**Jacksonville, Florida 32256**
**Certificate of Authorization #4815**
**Phone: (904) 731-7040**
**Fax: (904) 731-9847**
**www.TaylorEngineering.com**


**(Taylor Engineering Contract No. C2016-053)**

# F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA
# CONSTRUCTION DRAWINGS
## ST. LUCIE COUNTY, FLORIDA

PROJECT LOCATION

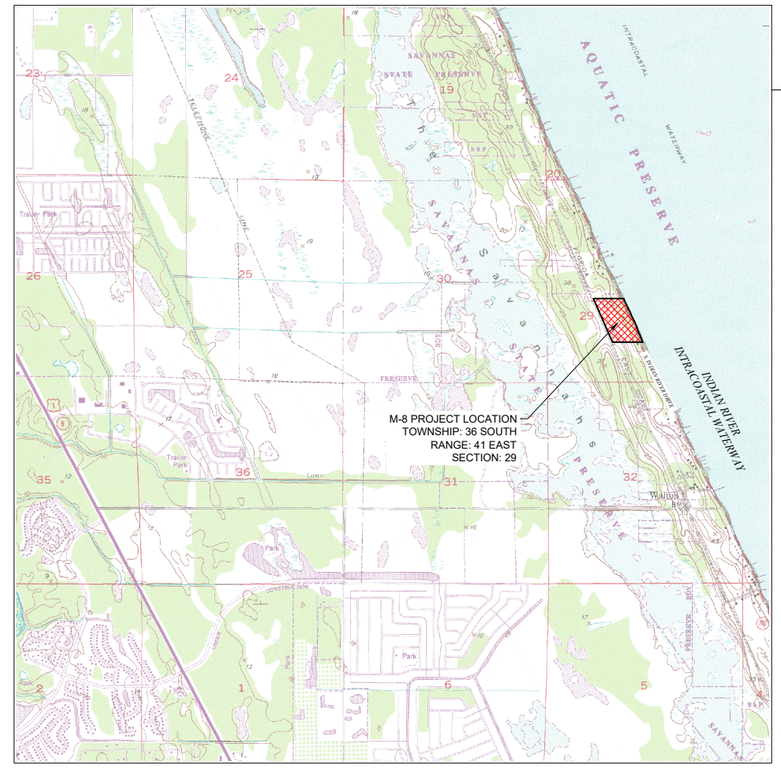



## LOCATION MAP
N.T.S.

SUNSHINE STATE ONE CALL OF FLORIDA
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## DRAWING INDEX


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## VICINITY MAP
1"= 2,000' (22"x34")
1"= 4,000' (11"x17")

REFERENCE:
USGS 7.5' QUADRANGLE MAP,
ANKONA, FLORIDA 1983


TAYLOR ENGINEERING INC.
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JACKSONVILLE, FLORIDA 32256
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815


PROJECT TITLE
F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA
CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

| | |
|---|---|
| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |

SEAL

KEITH A. KNIGHT P.E.# 58084

C-01

SHEET 1 OF 37


REBECCA JOHNSON, 4/4/2018 11:52:43 AM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\C2016-053-C-Title.dwg

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE EOR, ENGINEER, AND OWNER.

2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE EOR AND THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE EOR AND THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR THE ENGINEER TO OBSERVE AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMEN, LABORERS, LADDERS, HARD HATS, BOATS, LIFE JACKETS, LIFTS, SCAFFOLDING, MEASURING DEVICES, SURVEY EQUIPMENT, ETC.

4. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS. ALL SUBMITTALS USING METRIC UNITS WILL BE REJECTED AND RETURNED WITHOUT COMMENT.

5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

6. THE CONTRACTOR SHALL LOCATE ALL ABOVE-GROUND AND BELOW-GROUND UTILITIES BEFORE BEGINNING WORK.

7. IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ENGINEER'S INTERPRETATION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO COSTS TO THE OWNER.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING AND DEWATERING OF ALL OPEN EXCAVATIONS. SHORING AND TRENCHING SHALL COMPLY WITH OSHA STANDARDS AND THE FLORIDA SAFE TRENCH ACT.

10. DRAINAGE FROM STORMWATER, GROUND WATER, OR DE-WATERING SHALL BE CONTROLLED ONSITE. DRAINAGE NOT PREVIOUSLY DISCHARGED OFFSITE SHALL NOT BE DISCHARGED TO ADJACENT PROPERTIES DURING THE COURSE OF THE WORK.

11. ONSITE SOILS SHALL NOT BE ALLOWED TO ERODE OR OTHERWISE MOVE TO ADJACENT PROPERTIES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS AND SIGNS ADEQUATE TO PREVENT NORMAL PUBLIC ACCESS.

13. THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS AND SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. THE RECORD DRAWINGS SHALL BE KEPT ONSITE AND SHALL BE AVAILABLE FOR OBSERVATION BY THE ENGINEER.

14. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE THE STRUCTURE UNTIL COMPLETED WITH ALL COMPONENTS INSTALLED. UNLESS SPECIFICALLY STATED IN THE DRAWINGS, THE CONTRACTOR SHALL ASSUME THE EOR HAS ONLY DESIGNED THE STRUCTURE(S) FOR THE FINAL CONSTRUCTED AND ASSEMBLED STATE AS SHOWN ON THE DRAWINGS.

15. ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER IN WRITING.

16. ALL STORAGE OR STOCKPILING OF TOOLS AND MATERIAL, AND OPERATION OF HEAVY EQUIPMENT ASSOCIATED WITH CONSTRUCTION SHALL BE LIMITED TO AREAS AUTHORIZED BY THE ENGINEER.

17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, COUNTY, AND MUNICIPAL RULES AND REGULATIONS.

PERMITS AND PERMIT CONDITIONS

1. THE OWNER WILL SUPPLY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT CONDITIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY OR COUNTY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC.

3. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. ALL WETLAND AREAS AND WATER BODIES OUTSIDE THE SPECIFIC LIMITS OF CONSTRUCTION AUTHORIZED BY THIS PERMIT SHALL BE PROTECTED FROM EROSION, SILTATION, SCOURING, AND/OR DEWATERING. WITHIN 7 DAYS OF ANY CONSTRUCTION ACTIVITY, EROSION BARRIERS SHALL BE INSTALLED PRIOR TO ANY EXCAVATION OR PLACEMENT OF FILL MATERIAL. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED AREAS ARE STABILIZED.

4. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.

5. IF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS ARE DISCOVERED AT ANY TIME ON THE PROJECT SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD AND CEASE WORK IN THE AREA THE ARTIFACTS WERE IDENTIFIED.

SURVEY INFORMATION

1. BEARINGS, DISTANCES, AND HORIZONTAL COORDINATES IN DRAWINGS ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 1983 (NAD 83).

2. VERTICAL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

AS-BUILT SURVEYS

1. THE CONTRACTOR SHALL INCLUDE THE COST OF AN AS-BUILT SURVEY IN THE BID PRICE. THE AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEY LICENSED IN THE STATE THE PROJECT IS IN AND SHALL SHOW THE LOCATION AND ELEVATION OF ALL CONSTRUCTED FEATURES.

SITE CONDITIONS

1. ALL FILL DIRT SHALL COME FROM ON-SITE.
2. ALL TOP SOIL SHALL COME FROM ON-SITE.

WORK SEQUENCE

1. THE ENTIRE DIKE FOUNDATION SHALL BE GRADED AND COMPACTED.

2. THE DIKE SHALL BE CONSTRUCTED IN LIFTS PLACED AT THE SAME ELEVATION.

ESTIMATED DMMA STORAGE CAPACITY

1. THE ESTIMATED DMMA STORAGE CAPACITY, MEASURED FROM THE ESTIMATED BASIN BOTTOM ELEVATION OF 25.80 TO A MAXIMUM SEDIMENT ELEVATION OF +34.60, IS 79,552 CY.

ESTIMATED DMMA EARTHWORK VOLUMES

1. PAYMENT SURVEYS AND AS-BUILT SURVEYS WILL BE THE BASIS OF PAYMENT FOR ALL DMMA EARTHWORK VOLUMES (UNIT COST ITEMS). THE CONTRACTOR SHALL REFER TO THE BID SCHEDULE AND THE SPECIFICATION SECTION 01 29 00 - MEASUREMENT AND PAYMENT FOR FURTHER DETAILS. THE TERM DIKE CONSTRUCTION FILL VOLUME REFERS TO THE TOTAL EARTHWORK FILL VOLUME NECESSARY TO CONSTRUCT THE DIKE, RAMPS, INTERIOR SHELF, PERIMETER ROADS, PERIMETER DITCH BERMS, AND ANCILLARY EARTHWORK ITEMS.

2. THE CONTRACTOR SHALL REMOVE AND SEPARATE ALL UNSUITABLE DIKE CONSTRUCTION MATERIAL INTO STOCKPILES BEFORE BEGINNING THE FOUNDATION PREPARATION WORK. THIS WORK MAY OCCUR SIMULTANEOUSLY WITH CLEARING AND GRUBBING WORK.

3. THE CONTRACTOR SHALL PLACE UNSUITABLE MATERIAL AS DESCRIBED IN THE SPECIFICATIONS FOR TEMPORARY STORAGE DURING DIKE CONSTRUCTION. THIS REQUIRES THE CONTRACTOR TO HANDLE UNSUITABLE MATERIAL MULTIPLE TIMES AND THE CONTRACTOR'S BID SHOULD REFLECT MULTIPLE HANDLING OF THIS MATERIAL.

8. UPON COMPLETING THE FOUNDATION PREPARATION WORK AS DESCRIBED IN THE SPECIFICATIONS, THE CONTRACTOR SHALL SURVEY THE DIKE FOOTPRINT TO ESTABLISH THE TOPOGRAPHIC BASELINE SURVEY TO DETERMINE FUTURE PROJECT EARTHWORK QUANTITIES. THE ENGINEER'S ESTIMATE OF THE AVAILABLE CUT VOLUME PROVIDING SUITABLE DIKE MATERIAL IS:

ESTIMATED DIKE CONSTRUCTION CUT VOLUME AVAILABLE = 43,686 CY (TO BASIN ELEVATION -2.00 FT NAVD88)

9. PAYMENT FOR DIKE CONSTRUCTION FILL SHALL BE BASED ON THE AMOUNT OF MATERIAL PLACED AND COMPACTED AFTER FOUNDATION PREPARATION IS COMPLETE. THE ENGINEER HAS ASSUMED THAT THE IN-SITU MATERIAL VOLUME WILL SHRINK WHEN CUT, PLACED, AND COMPACTED AS REQUIRED BY THE SPECIFICATIONS. THE ESTIMATED AVERAGE SHRINKAGE AS DETERMINED BY THE ENGINEER IS APPROXIMATELY 15%, MEANING THE REQUIRED CUT VOLUME IS 115% OF THE PLACED AND COMPACTED VOLUME. FOR BID PURPOSES THE CONTRACTOR SHALL MAKE HIS/HER OWN ESTIMATE OF SHRINKAGE AND BID ACCORDINGLY. THE IN-PLACE VOLUME OF COMPACTED MATERIAL REQUIRED TO CONSTRUCT THE SITE TO THE LINES AND GRADES SHOWN IN THE DRAWINGS IS:

ESTIMATED SUITABLE DIKE CONSTRUCTION FILL = 39,941 CY PLACED AND COMPACTED TO CREST ELEVATION +38.60 FT NAVD88

BID QUANTITY FOR DIKE CONSTRUCTION FILL SHALL BE 42,000 CY.

ROADWAY OPEN CUT FOR PIPELINE INSTALLATION

1. CONTRACTOR WILL PROVIDE MAINTENANCE OF TRAFFIC DURING THE PIPE INSTALLATION UNDER S. INDIAN RIVER DRIVE. MAINTENANCE OF TRAFFIC WILL CONFORM TO ALL FDOT STANDARDS AND LOCAL LAWS.

2. FLOW OF TRAFFIC WILL BE MAINTAINED IN BOTH DIRECTIONS AT ALL TIME.

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SEAL

KEITH A. KNIGHT P.E.# 58084

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CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

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| NO | ZONE | REVISIONS / SUBMISSIONS | DATE |
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|---|---|
| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

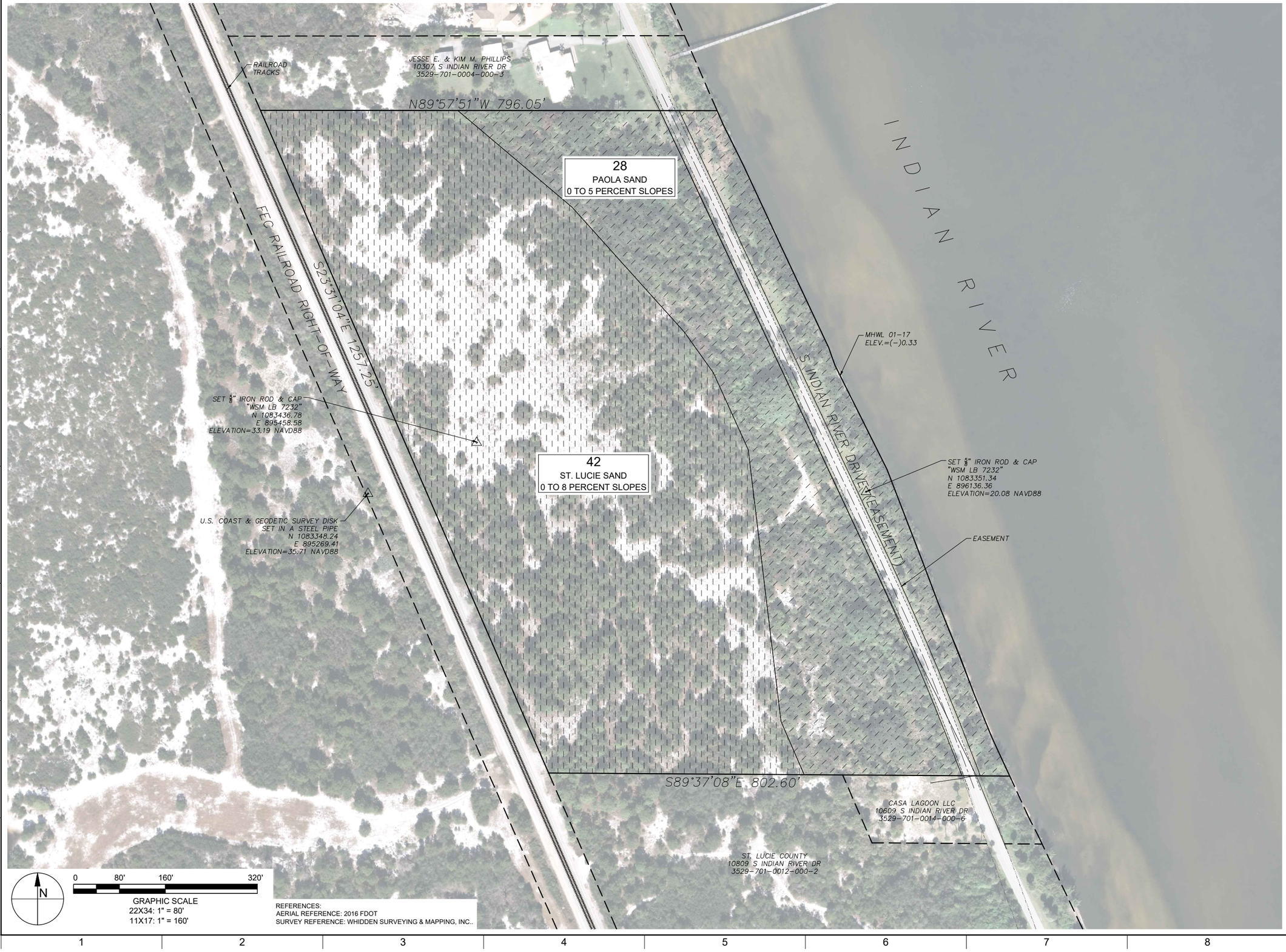
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PROJECT NOTES

C-02

SHEET 2 OF 37

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REFERENCES:
AERIAL REFERENCE: 2016 FDOT
SURVEY REFERENCE: WHIDDEN SURVEYING & MAPPING, INC..

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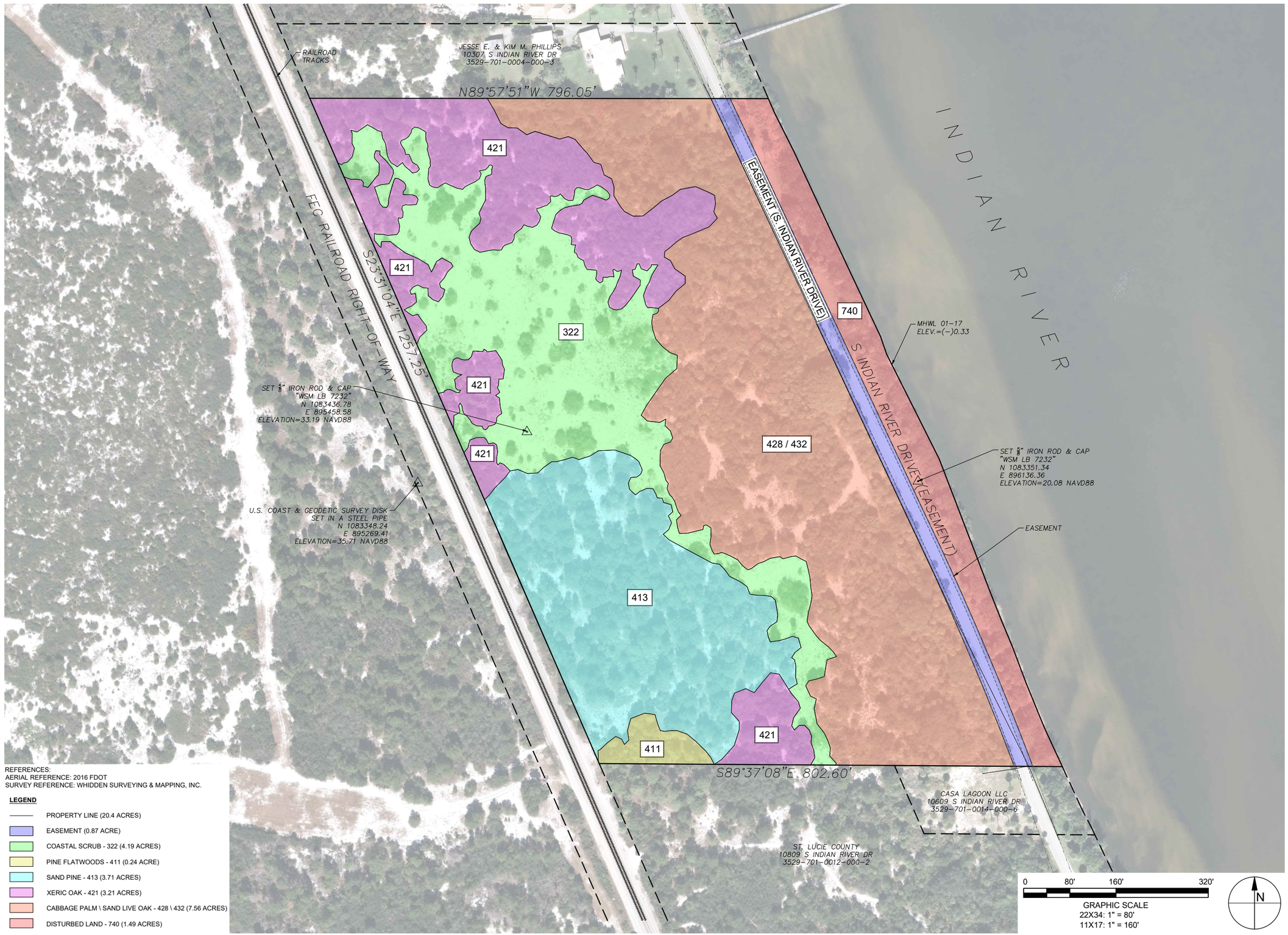
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EXISTING NCRS MAP

C-03

SHEET 3 OF 37

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REFERENCES:
AERIAL REFERENCE: 2016 FDOT
SURVEY REFERENCE: WHIDDEN SURVEYING & MAPPING, INC.

**LEGEND**

- PROPERTY LINE (20.4 ACRES)
- EASEMENT (0.87 ACRE)
- COASTAL SCRUB - 322 (4.19 ACRES)
- PINE FLATWOODS - 411 (0.24 ACRE)
- SAND PINE - 413 (3.71 ACRES)
- XERIC OAK - 421 (3.21 ACRES)
- CABBAGE PALM \ SAND LIVE OAK - 428 \ 432 (7.56 ACRES)
- DISTURBED LAND - 740 (1.49 ACRES)


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| DATE | APRIL 2018 |
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| REVIEWED | KAK/WA |
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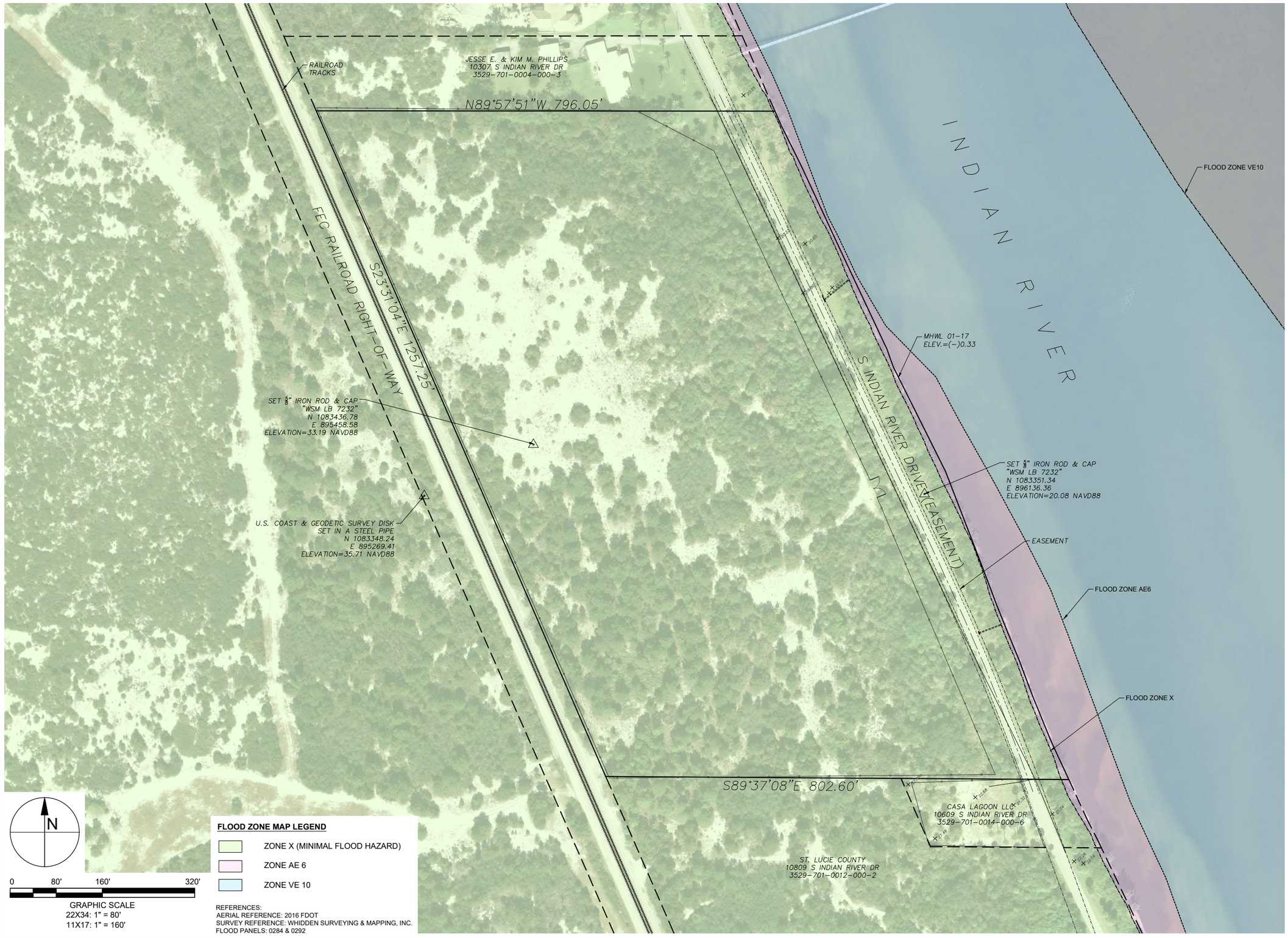
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FLUCCS SOILS MAP

C-04

SHEET 4 OF 37

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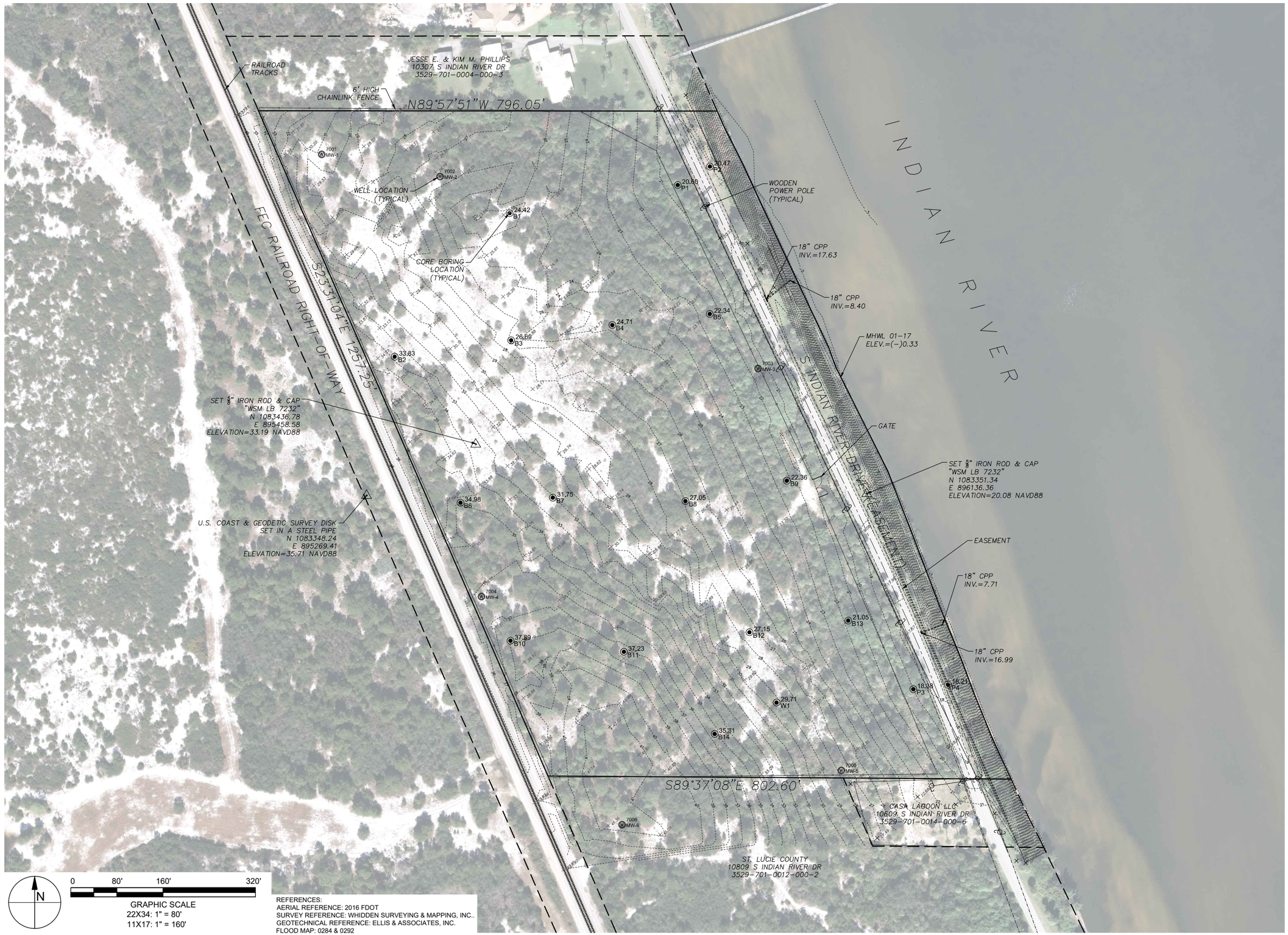
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FLOOD ZONE MAP

C-05

SHEET 5 OF 37

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N

0 80' 160' 320'

GRAPHIC SCALE
22X34: 1" = 80'
11X17: 1" = 160'

REFERENCES:
AERIAL REFERENCE: 2016 FDOT
SURVEY REFERENCE: WHIDDEN SURVEYING & MAPPING, INC..
GEOTECHNICAL REFERENCE: ELLIS & ASSOCIATES, INC.
FLOOD MAP: 0284 & 0292


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| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

DRAWING TITLE

EXISTING CONDITIONS

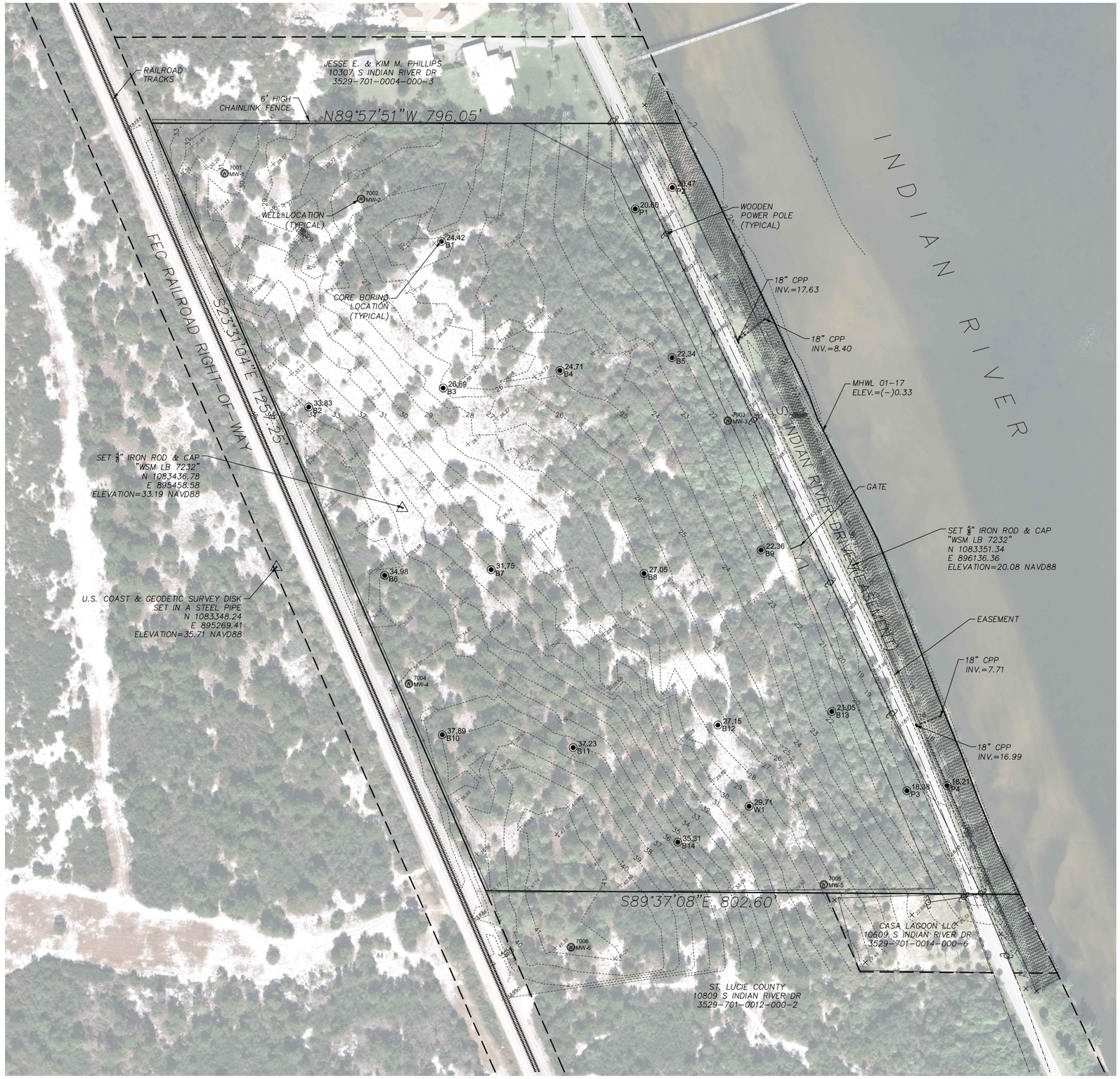
C-06

SHEET 6 OF 37

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| GEOTECHNICAL BORING LOCATIONS | | | | |
|---|---|---|---|---|
| POINT | EASTING | NORTHING | ELEVATION | ID |
| 6001 | 895517.27 | 1083837.35 | 24.42 | B1 |
| 6002 | 895318.00 | 1083588.72 | 33.83 | B2 |
| 6003 | 895519.93 | 1083617.26 | 26.69 | B3 |
| 6004 | 895695.36 | 1083643.52 | 24.71 | B4 |
| 6005 | 895864.02 | 1083662.76 | 22.34 | B5 |
| 6006 | 895432.13 | 1083335.77 | 34.98 | B6 |
| 6007 | 895592.12 | 1083344.37 | 31.75 | B7 |
| 6008 | 895821.85 | 1083338.66 | 27.05 | B8 |
| 6009 | 895997.67 | 1083373.81 | 22.36 | B9 |
| 6010 | 895518.66 | 1083096.48 | 37.89 | B10 |
| 6011 | 895715.24 | 1083077.18 | 37.23 | B11 |
| 6012 | 895932.92 | 1083111.07 | 27.15 | B12 |
| 6013 | 896104.08 | 1083131.46 | 21.05 | B13 |
| 6014 | 895872.54 | 1082935.00 | 35.31 | B14 |
| 6101 | 895808.49 | 1083886.24 | 20.60 | P1 |
| 6102 | 895864.24 | 1083918.30 | 20.47 | P2 |
| 6103 | 896216.76 | 1083012.43 | 18.38 | P3 |
| 6104 | 896276.94 | 1083020.15 | 18.21 | P4 |
| 6201 | 895979.84 | 1082989.28 | 29.71 | W1 |

| MONITORING WELL LOCATIONS | | | |
|---|---|---|---|
| POINT | EASTING | NORTHING | ID |
| 7001 | 895191.47 | 1083939.40 | MW-1 |
| 7002 | 895396.54 | 1083901.04 | MW-2 |
| 7003 | 895947.70 | 1083568.04 | MW-3 |
| 7004 | 895468.32 | 1083172.94 | MW-4 |
| 7005 | 896091.93 | 1082871.66 | MW-5 |
| 7006 | 895712.03 | 1082777.60 | MW-6 |




REFERENCES:
AERIAL REFERENCE: 2016 FDOT
SURVEY REFERENCE: WHIDDEN SURVEYING & MAPPING, INC..
GEOTECHNICAL REFERENCE: ELLIS & ASSOCIATES, INC.

NOTE: SEE FINAL GEOTECHNICAL REPORT BY ELLIS & ASSOCIATES, INC. FOR SOIL PROFILES AT LOCATIONS SHOWN ON THIS PLAN.

N

0 80' 160' 320'

GRAPHIC SCALE
22X34: 1" = 80'
11X17: 1" = 160'


TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815


SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811 BEFORE YOU DIG
1-800-638-4097

| NO | ZONE | REVISIONS / SUBMISSIONS | DATE |
|---|---|---|---|

| | |
|---|---|
| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

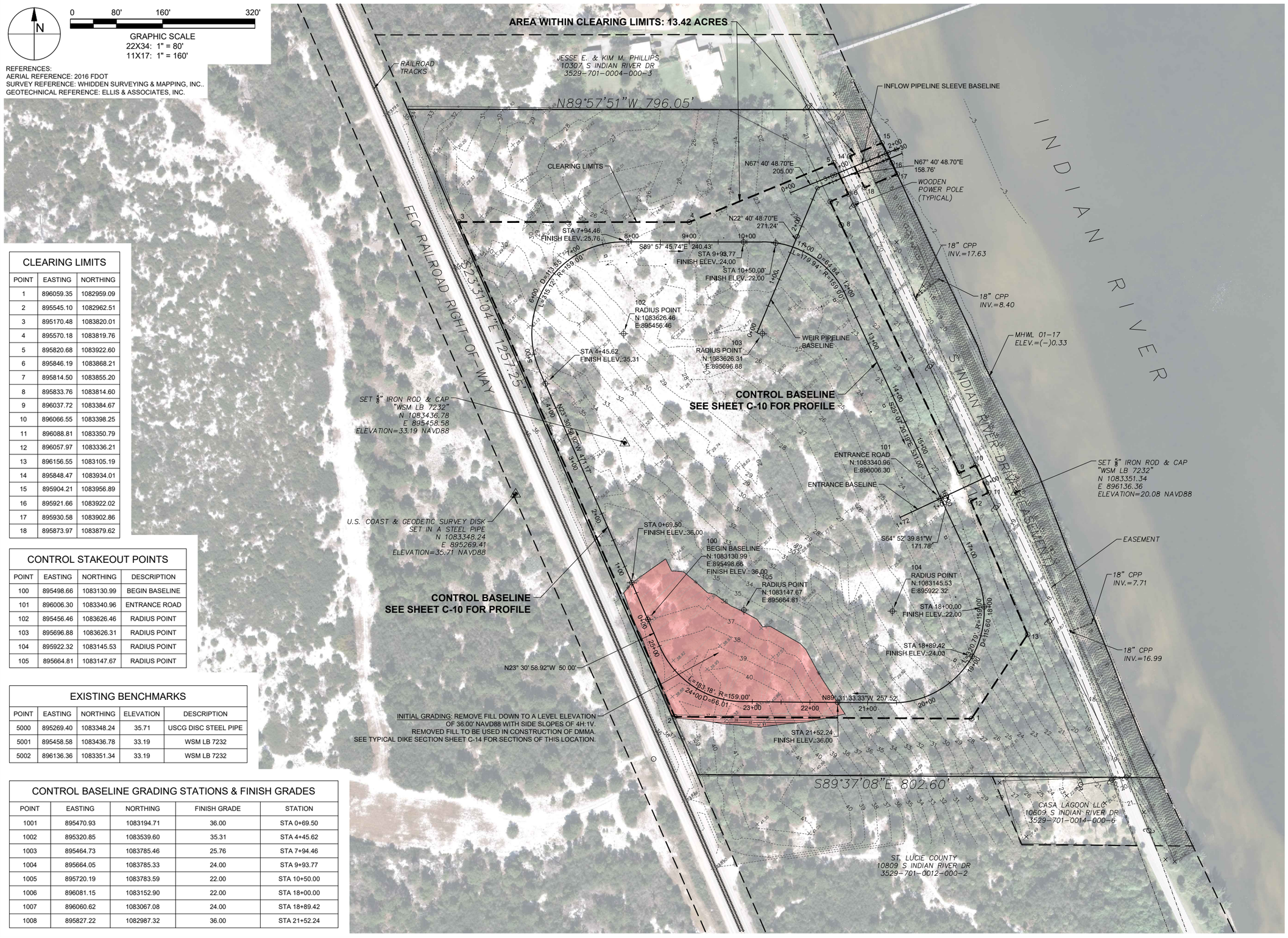
DRAWING TITLE

GEOTECHNICAL LOCATION PLAN

C-07

SHEET 7 OF 37

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0 80' 160' 320'

GRAPHIC SCALE
22X34: 1" = 80'
11X17: 1" = 160'

REFERENCES:
AERIAL REFERENCE: 2016 FDOT
SURVEY REFERENCE: WHIDDEN SURVEYING & MAPPING, INC..
GEOTECHNICAL REFERENCE: ELLIS & ASSOCIATES, INC.

## CLEARING LIMITS

| POINT | EASTING | NORTHING |
|---|---|---|
| 1 | 896059.35 | 1082959.09 |
| 2 | 895545.10 | 1082962.51 |
| 3 | 895170.48 | 1083820.01 |
| 4 | 895570.18 | 1083819.76 |
| 5 | 895820.68 | 1083922.60 |
| 6 | 895846.19 | 1083868.21 |
| 7 | 895814.50 | 1083855.20 |
| 8 | 895833.76 | 1083814.60 |
| 9 | 896037.72 | 1083384.67 |
| 10 | 896066.55 | 1083398.25 |
| 11 | 896088.81 | 1083350.79 |
| 12 | 896057.97 | 1083336.21 |
| 13 | 896156.55 | 1083105.19 |
| 14 | 895848.47 | 1083934.01 |
| 15 | 895904.21 | 1083956.89 |
| 16 | 895921.66 | 1083922.02 |
| 17 | 895930.58 | 1083902.86 |
| 18 | 895873.97 | 1083879.62 |

## CONTROL STAKEOUT POINTS

| POINT | EASTING | NORTHING | DESCRIPTION |
|---|---|---|---|
| 100 | 895498.66 | 1083130.99 | BEGIN BASELINE |
| 101 | 896006.30 | 1083340.96 | ENTRANCE ROAD |
| 102 | 895456.46 | 1083626.46 | RADIUS POINT |
| 103 | 895696.88 | 1083626.31 | RADIUS POINT |
| 104 | 895922.32 | 1083145.53 | RADIUS POINT |
| 105 | 895664.81 | 1083147.67 | RADIUS POINT |

## EXISTING BENCHMARKS

| POINT | EASTING | NORTHING | ELEVATION | DESCRIPTION |
|---|---|---|---|---|
| 5000 | 895269.40 | 1083348.24 | 35.71 | USCG DISC STEEL PIPE |
| 5001 | 895458.58 | 1083436.78 | 33.19 | WSM LB 7232 |
| 5002 | 896136.36 | 1083351.34 | 33.19 | WSM LB 7232 |

## CONTROL BASELINE GRADING STATIONS & FINISH GRADES

| POINT | EASTING | NORTHING | FINISH GRADE | STATION |
|---|---|---|---|---|
| 1001 | 895470.93 | 1083194.71 | 36.00 | STA 0+69.50 |
| 1002 | 895320.85 | 1083539.60 | 35.31 | STA 4+45.62 |
| 1003 | 895464.73 | 1083785.46 | 25.76 | STA 7+94.46 |
| 1004 | 895664.05 | 1083785.33 | 24.00 | STA 9+93.77 |
| 1005 | 895720.19 | 1083783.59 | 22.00 | STA 10+50.00 |
| 1006 | 896081.15 | 1083152.90 | 22.00 | STA 18+00.00 |
| 1007 | 896060.62 | 1083067.08 | 24.00 | STA 18+89.42 |
| 1008 | 895827.22 | 1082987.32 | 36.00 | STA 21+52.24 |


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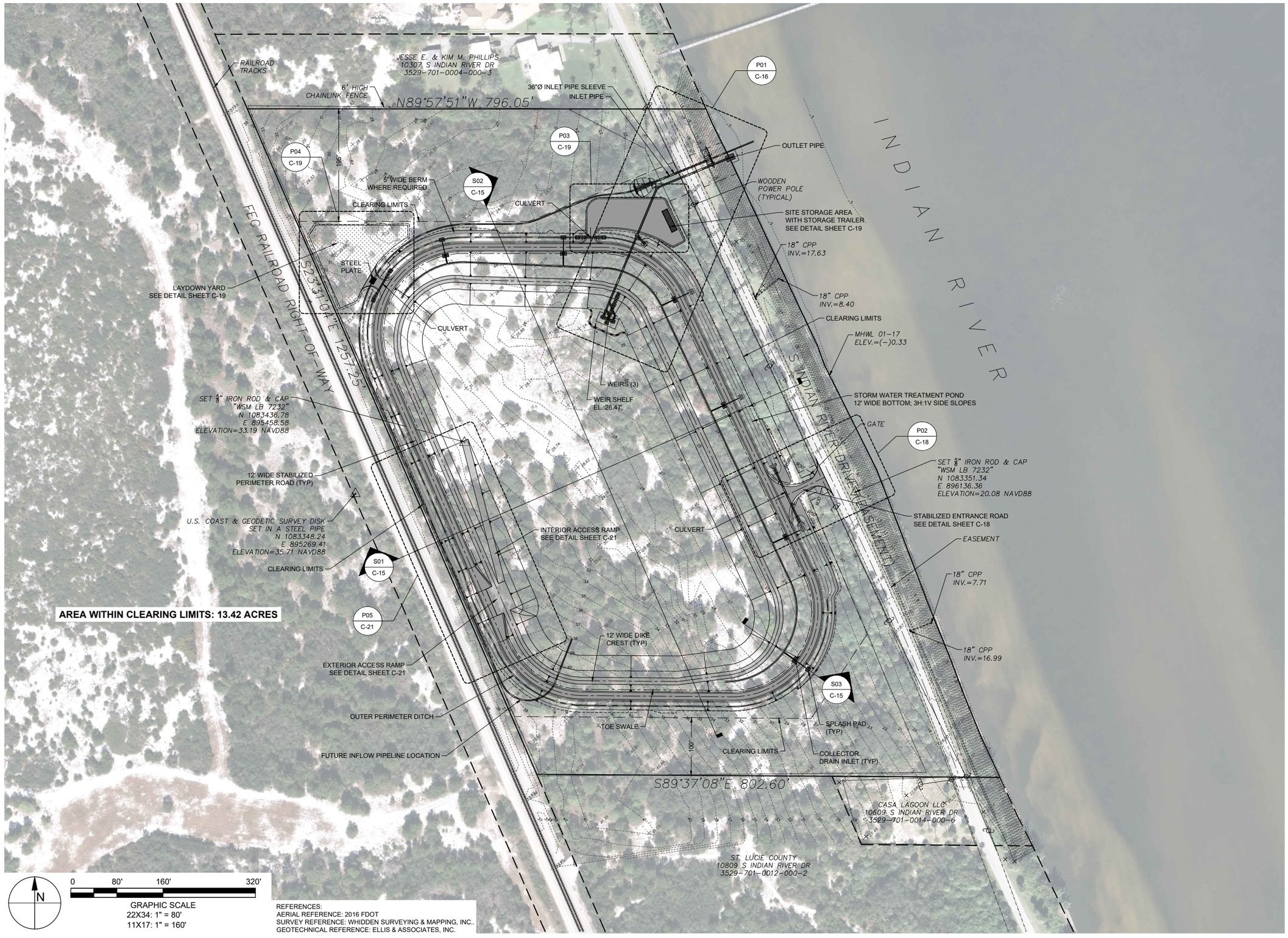
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DMMA SITE PREPARATION & STAKEOUT

C-08

SHEET 8 OF 37

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REFERENCES:
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SURVEY REFERENCE: WHIDDEN SURVEYING & MAPPING, INC..
GEOTECHNICAL REFERENCE: ELLIS & ASSOCIATES, INC.


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| SCALE | AS SHOWN |

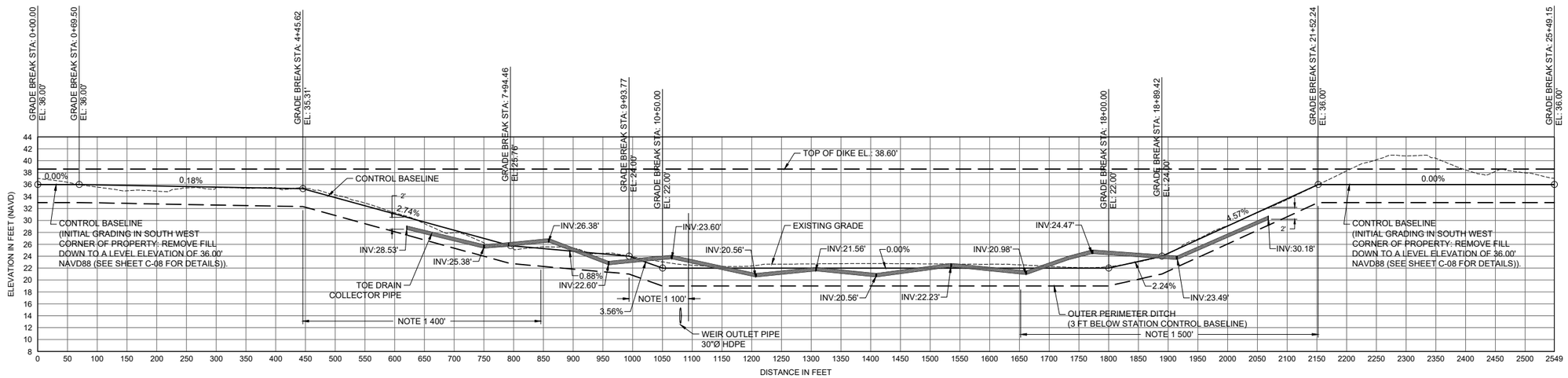
DRAWING TITLE

SITE PLAN

C-09

SHEET 9 OF 37


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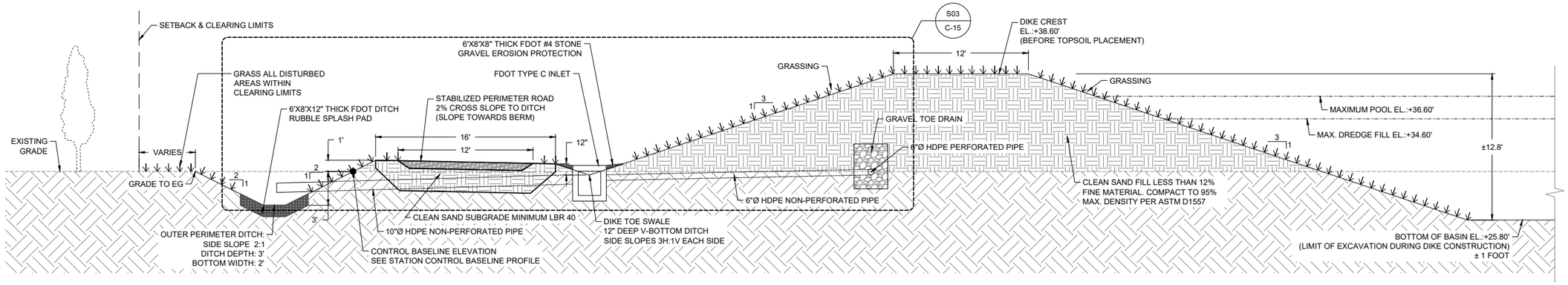



NOTE 1: PROVIDE FDOT DITCH RUBBLE FOR ALL PORTIONS OF OUTER PERIMETER DITCH SLOPING GREATER THAN 1%. SEE DETAIL SHEET C-15.

## STATION CONTROL BASELINE PROFILE

22X34: 1" = 100'
11X17: 1" = 200'
VERT. SCALE: 1" = 10' (22x34)
VERT. SCALE: 1" = 20' (11x17)

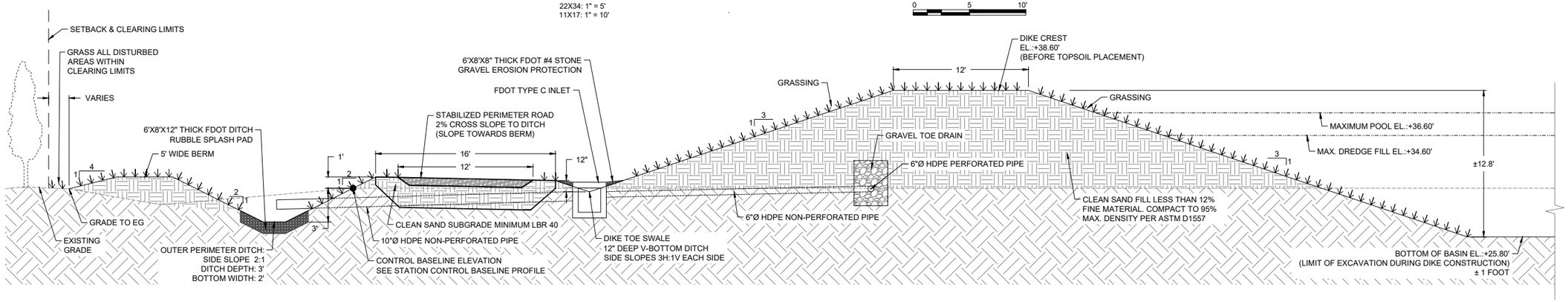
0 1 2'




## TYPICAL DIKE SECTION (NO BERM REQUIRED)

22X34: 1" = 5'
11X17: 1" = 10'

0 5 10'




## TYPICAL DIKE SECTION (BERM REQUIRED)

22X34: 1" = 5'
11X17: 1" = 10'

0 5 10'

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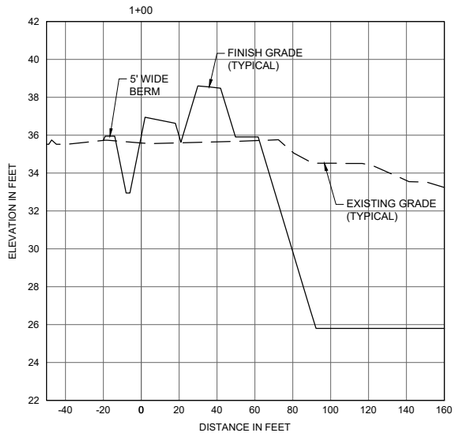
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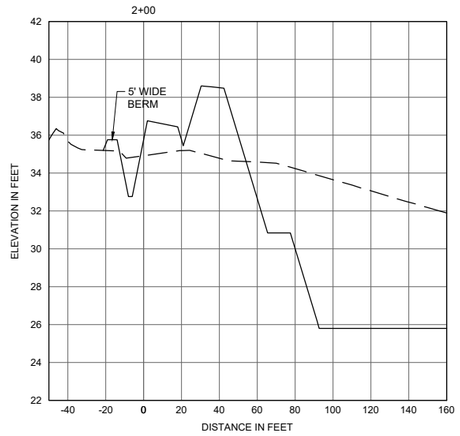
CONTROL BASELINE & DETAILS

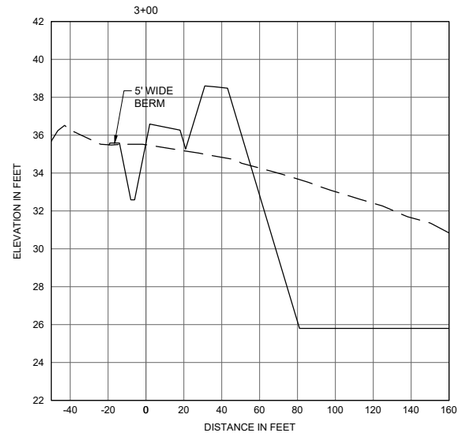
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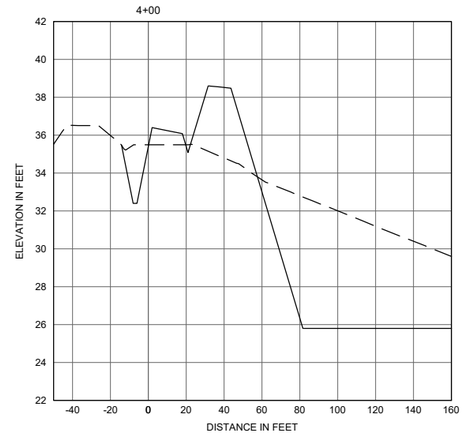
SHEET 10 OF 37

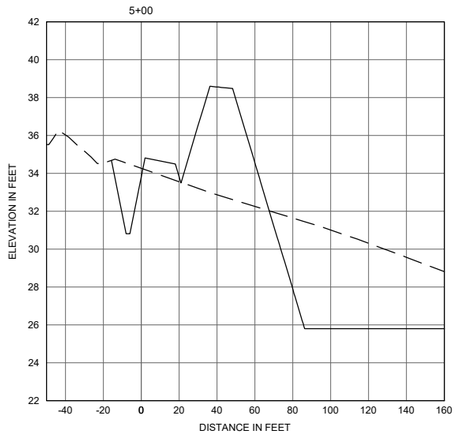
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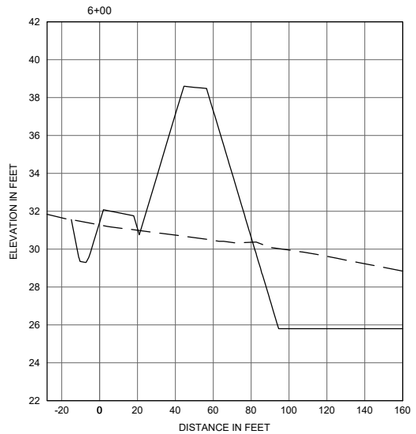


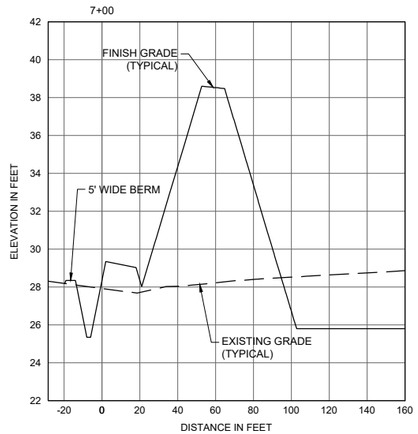



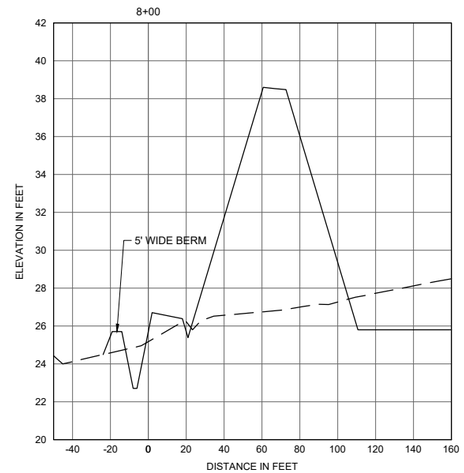




LEGEND

FINISH GRADE

EXISTING GRADE

# TYPICAL DIKE SECTIONS

22X34: 1" = 40'
11X17: 1" = 80'
VERT. SCALE: 1" = 4' (22x34)
VERT. SCALE: 1" = 8' (11x17)

0 40' 80'

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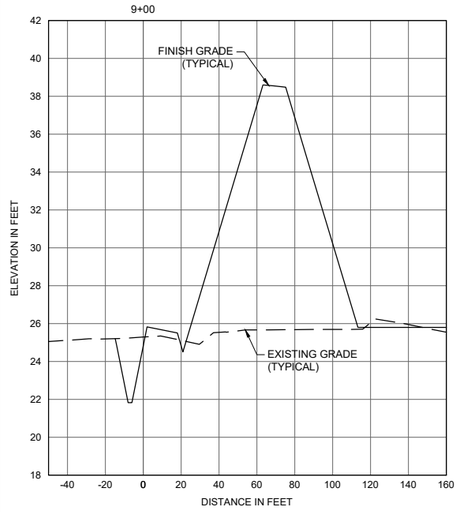
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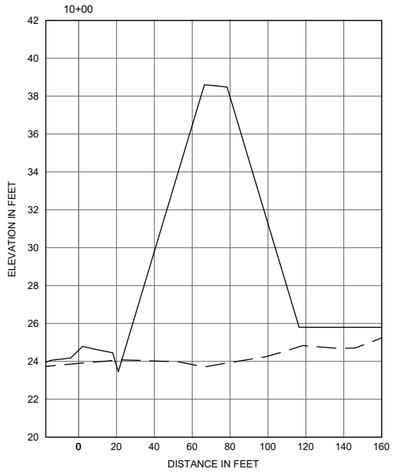
TYPICAL DIKE SECTIONS

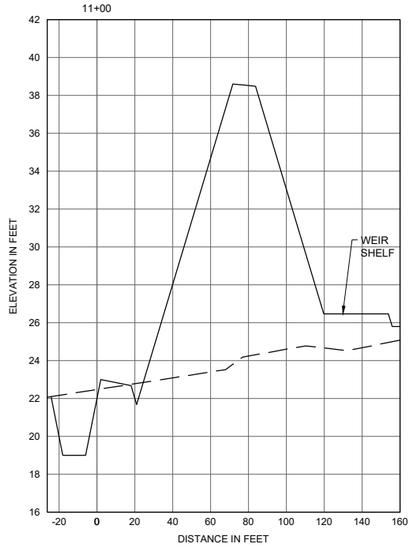
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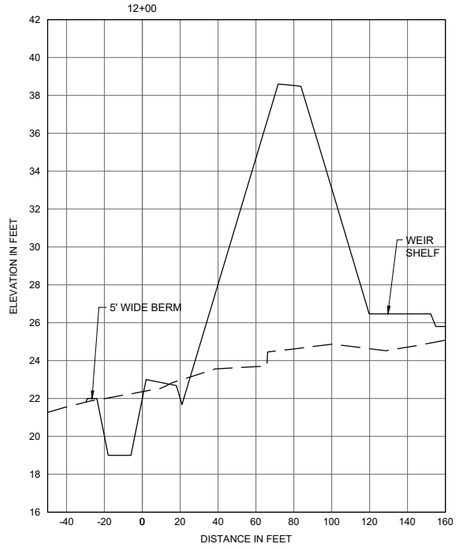
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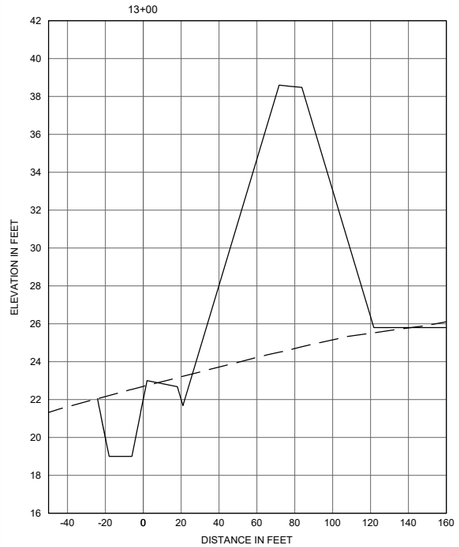
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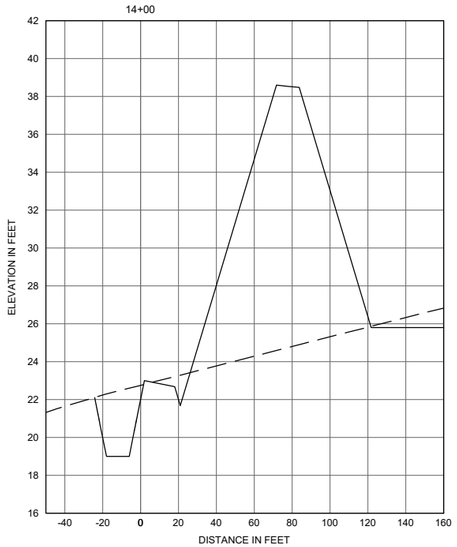


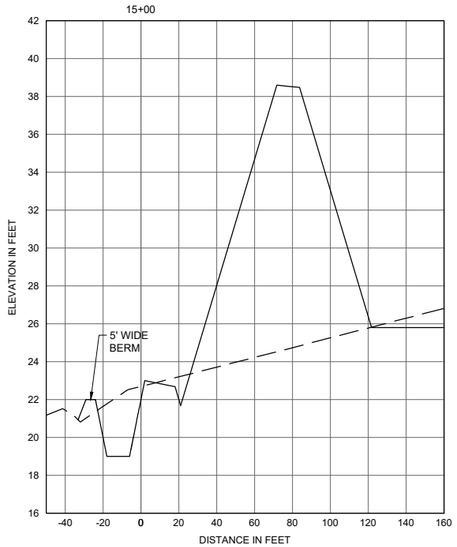




LEGEND

FINISH GRADE

EXISTING GRADE

# TYPICAL DIKE SECTIONS

22X34: 1" = 40'
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VERT. SCALE: 1" = 4' (22x34)
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0 40' 80'

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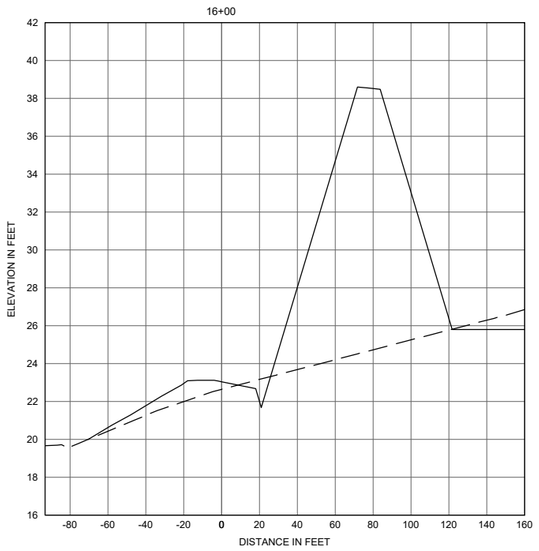
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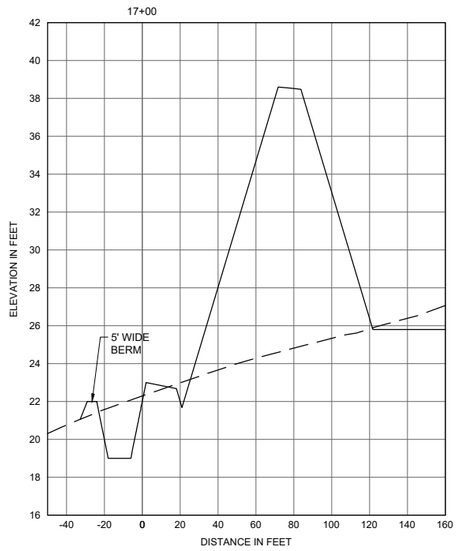
TYPICAL DIKE SECTIONS

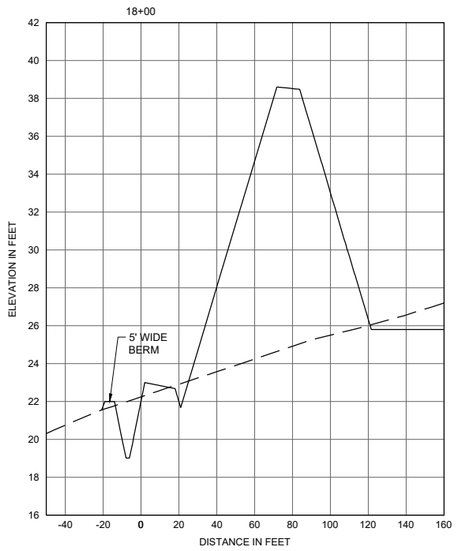
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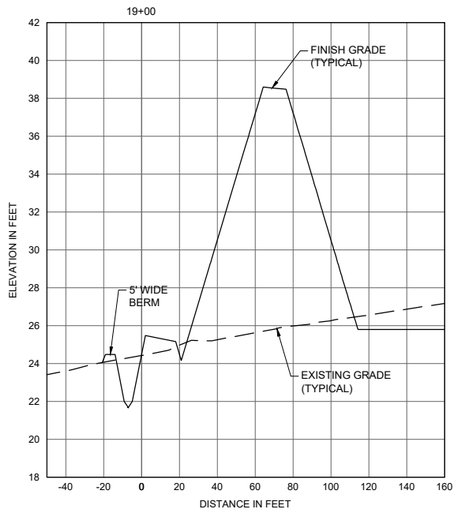
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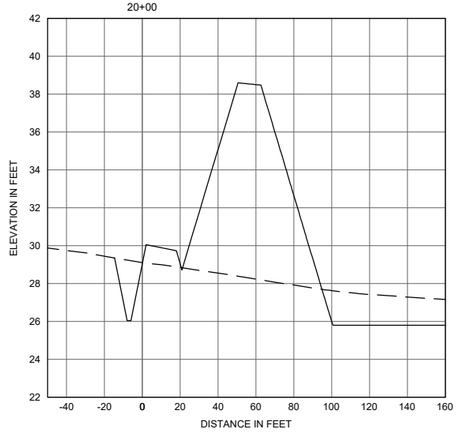
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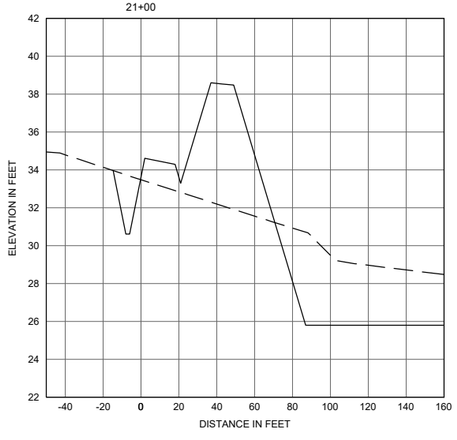



LEGEND

FINISH GRADE

EXISTING GRADE

# TYPICAL DIKE SECTIONS

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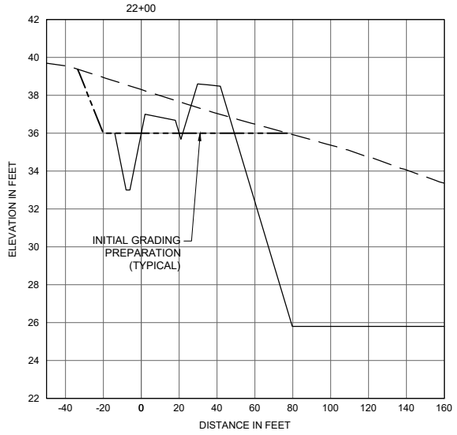
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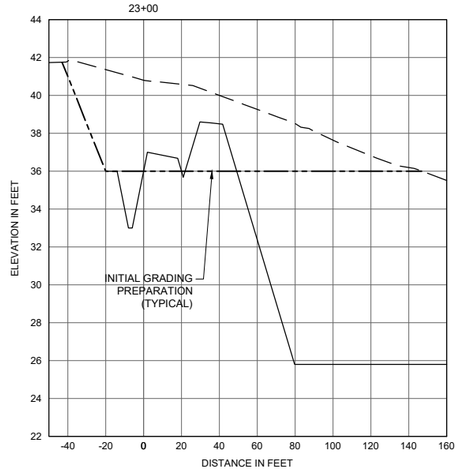
TYPICAL DIKE SECTIONS

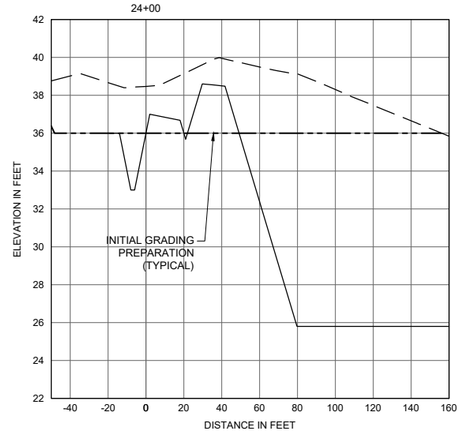
C-13

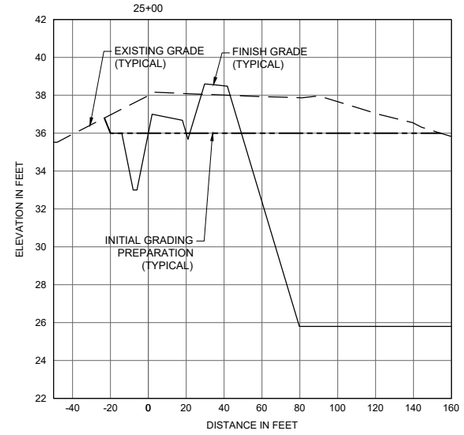
SHEET 13 OF 37

REBECCA JOHNSON, 4/4/2018 11:54:29 AM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\C2016-053-C-Sections.dwg




INITIAL GRADING NOTE: SEE DMMA SITE PREPARATION & STAKEOUT SHEET C-08 FOR LOCATION OF INITIAL GRADING (LIGHT RED SHADE). REMOVE FILL DOWN TO A LEVEL ELEVATION OF 36.00' NAVD88 WITH SIDE SLOPES OF 4H:1V. REMOVED FILL TO BE USED IN THE CONSTRUCTION OF THE DMMA.

LEGEND

- INITIAL SITE PREPARATION GRADE
- FINISH GRADE
- EXISTING GRADE

## TYPICAL DIKE SECTIONS

22X34: 1" = 40'
11X17: 1" = 80'
VERT. SCALE: 1" = 4' (22x34)
VERT. SCALE: 1" = 8' (11x17)

0 40' 80'

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA
CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811
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| NO | ZONE | REVISIONS / SUBMISSIONS | DATE |
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| | |
|---|---|
| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

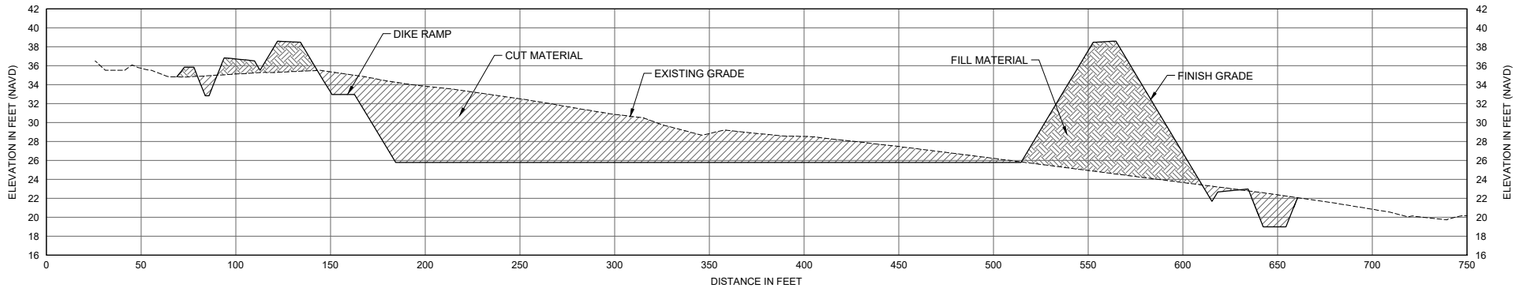
DRAWING TITLE

TYPICAL DIKE SECTIONS

C-14

SHEET 14 OF 37

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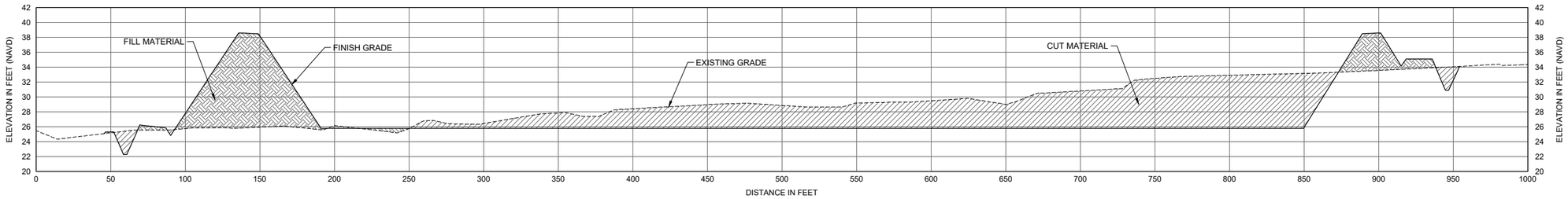



S01 / C-09

## SECTION THRU DMMA - EAST TO WEST

22x34: 1" = 40'
11x17: 1" = 80'
V-SCALE: 1" = 8' (22X34)
V-SCALE: 1" = 16' (11X17)

0 40' 80'

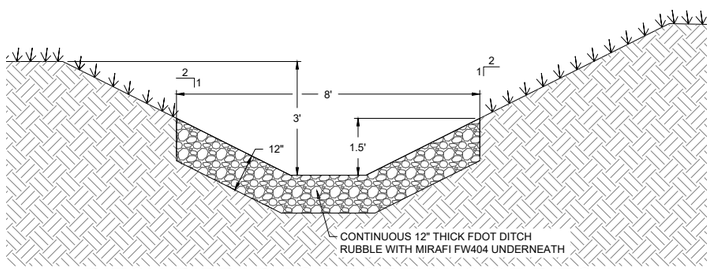



S02 / C-09

## SECTION THRU DMMA - NORTH TO SOUTH

22x34: 1" = 40'
11x17: 1" = 80'
V-SCALE: 1" = 8' (22X34)
V-SCALE: 1" = 16' (11X17)

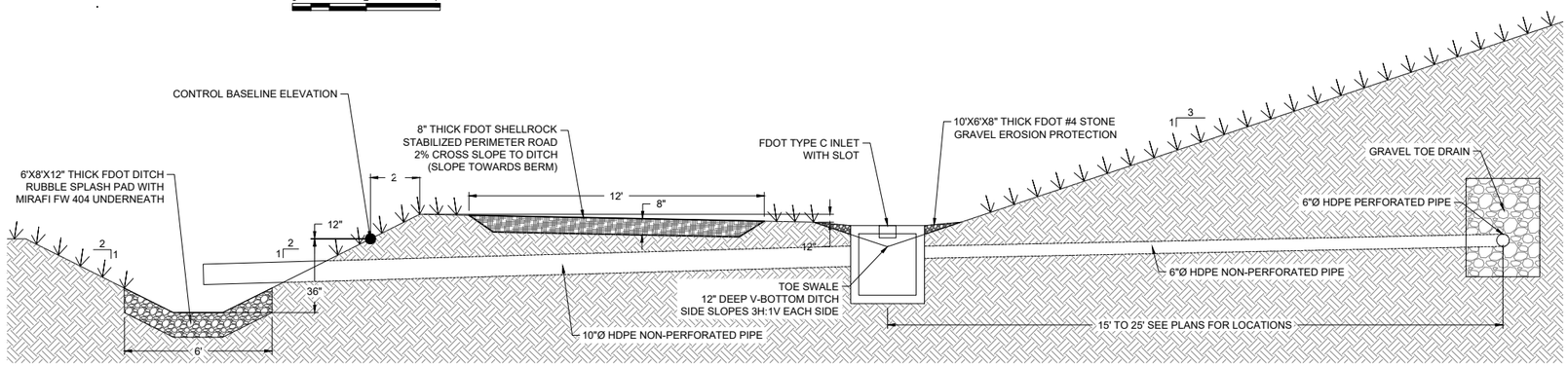
0 40' 80'




## DITCH RIPRAP FOR PORTIONS OF DITCH SLOPING GREATER THAN 1.0% (0.01 FT/FT)

22X34: 1" = 2'
11X17: 1" = 4'

0 2 4'




S03 / C-10

## DMMA CONTROL BASELINE POINT DETAIL SECTION

22x34: 1" = 3'
11x17: 1" = 6'

0 3' 6'

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| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

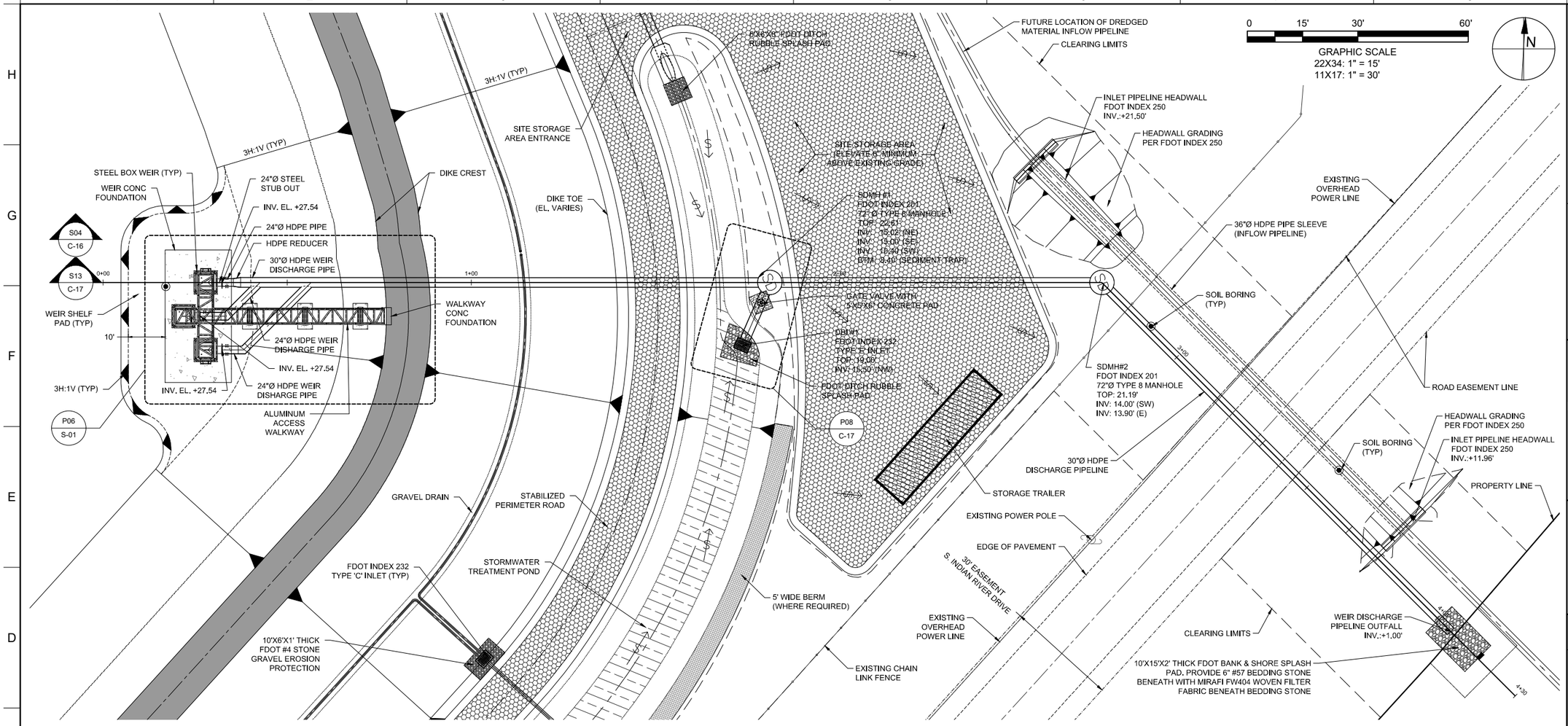
DRAWING TITLE

DIKE CROSS SECTIONS

C-15

SHEET 15 OF 37

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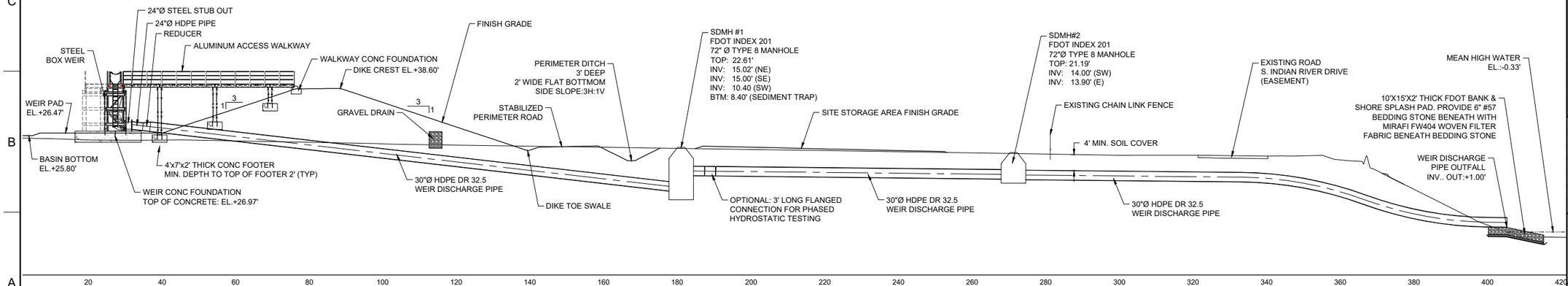

P01 C-09

## WEIR DISCHARGE DETAIL PLAN

22x34: 1" = 15'
11x17: 1" = 30'

0 15' 30'

**NOTE: ALL MANHOLES AND MANHOLE COVERS SHALL BE PRESSURE RATED. SEE SPECIFICATIONS.**




S04 C-16

## WEIR AND WALKWAY PROFILE OVERVIEW

22x34: 1" = 15'
11x17: 1" = 30'

0 15' 30'


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| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

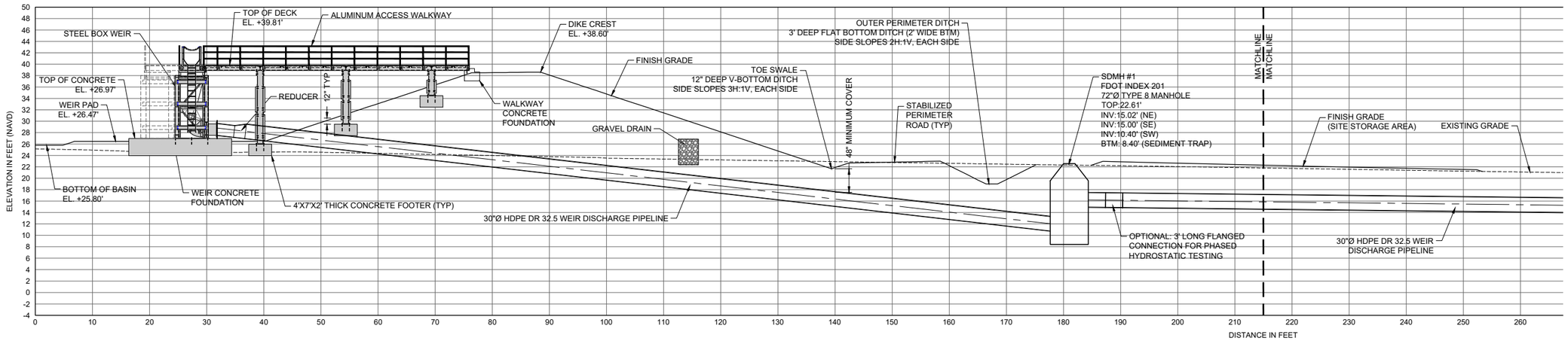
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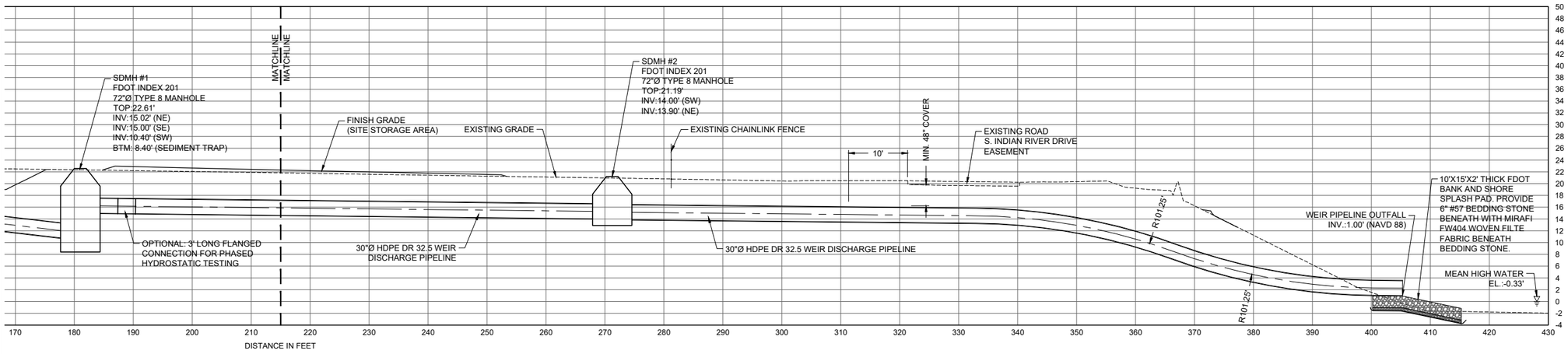
WEIR DISCHARGE PIPELINE

C-16

SHEET 16 OF 37

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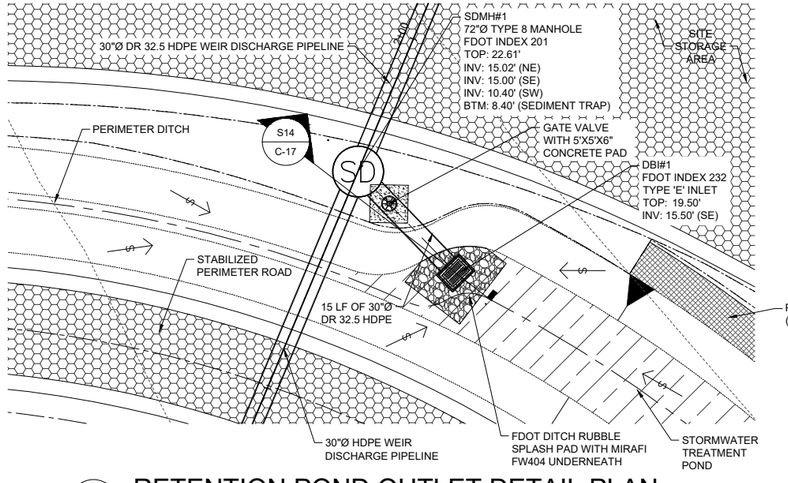




## WEIR DISCHARGE PIPELINE PROFILE DETAIL

S13 / C-16

22x34: 1" = 10'
11x17: 1" = 20'
V-SCALE: 1" = 10' (22X34)
V-SCALE: 1" = 20' (11X17)

0 10' 20'

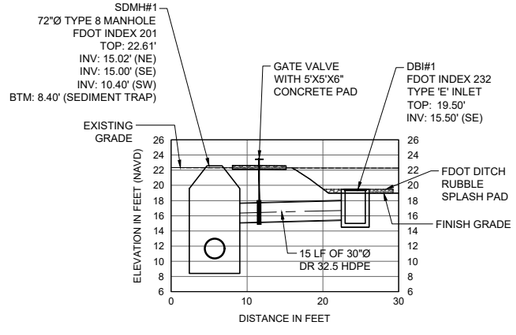



## RETENTION POND OUTLET DETAIL PLAN

P08 / C-17

22x34: 1" = 10'
11x17: 1" = 20'

0 10' 20'




## RETENTION POND OUTLET SECTION

S14 / C-17

22x34: 1" = 10'
11x17: 1" = 20'

0 10' 20'

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| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

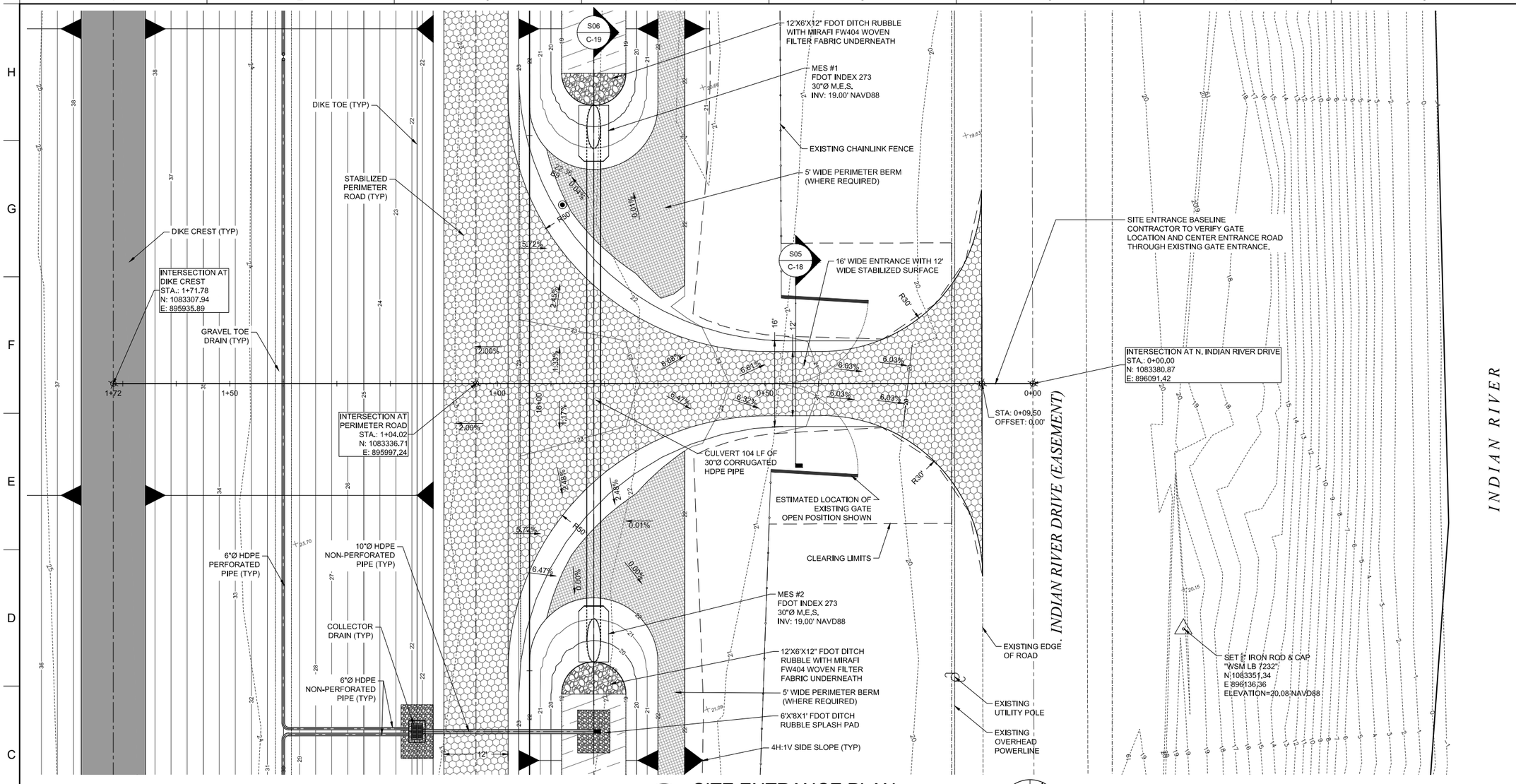
DRAWING TITLE

WEIR DISCHARGE PIPELINE

C-17

SHEET 17 OF 37

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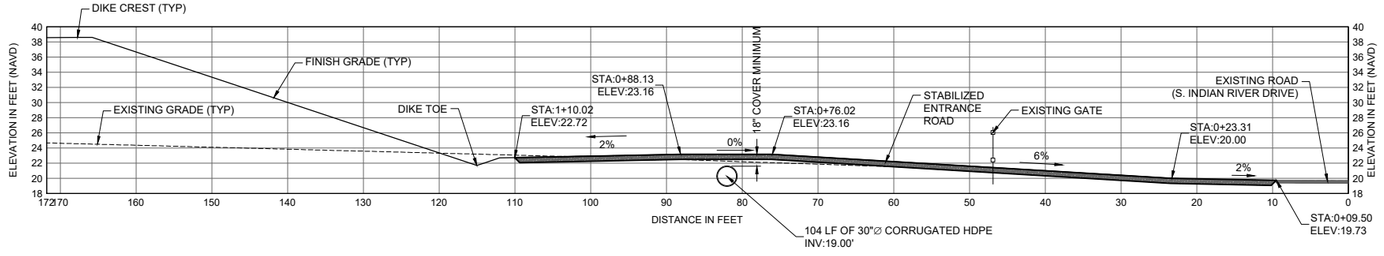



P02
C-09

## SITE ENTRANCE PLAN

22x34: 1" = 10'
11x17: 1" = 20'

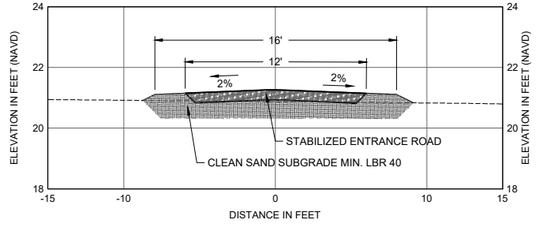
0 10' 20'




## SITE ENTRANCE BASELINE PROFILE DETAIL

22X34: 1" = 10'
11X17: 1" = 20'

0 10' 20'




S05
C-18

## SITE ENTRANCE AT GATE SECTION

22x34: 1" = 5'
11x17: 1" = 10'
V-SCALE: 1" = 2.5 (22X34)
V-SCALE: 1" = 5' (11X17)

0 5' 10'

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SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

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ST. LUCIE COUNTY, FLORIDA

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| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

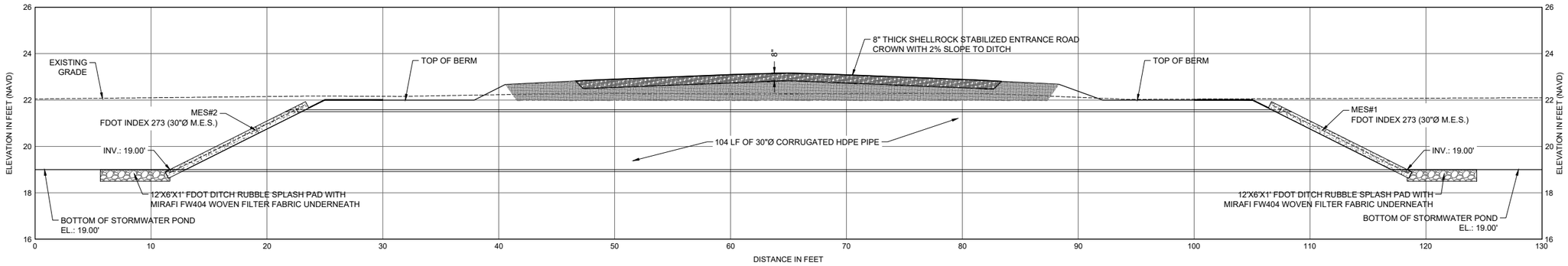
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SITE ENTRANCE

C-18

SHEET 18 OF 37

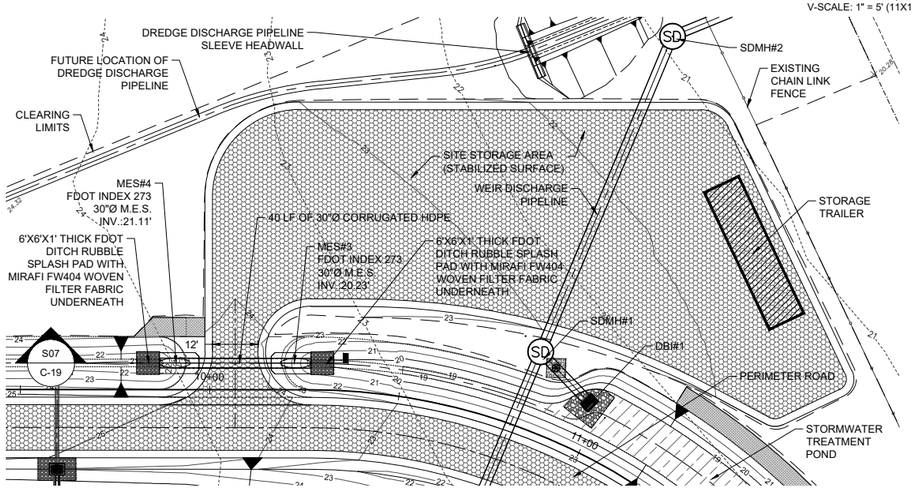
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S06 / C-18

# SITE ENTRANCE CULVERT SECTION

22x34: 1" = 5'
11x17: 1" = 10'
V-SCALE: 1" = 2.5' (22X34)
V-SCALE: 1" = 5' (11X17)

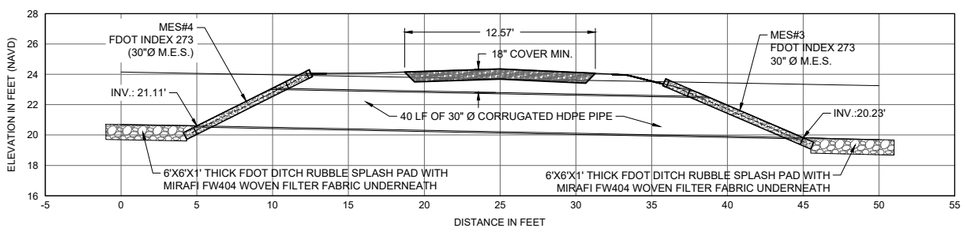



P03 / C-09

# SITE STORAGE AREA DETAIL PLAN

22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40'

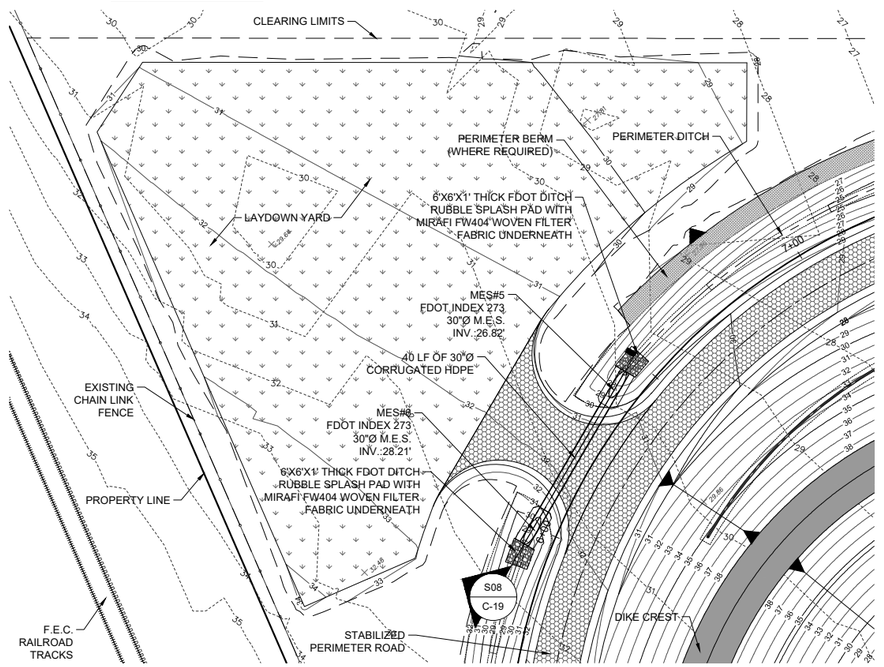



S07 / C-19

# SITE STORAGE AREA CULVERT SECTION

22x34: 1" = 5'
11x17: 1" = 10'
V-SCALE: 1" = 2.5' (22X34)
V-SCALE: 1" = 5' (11X17)

0 5' 10'

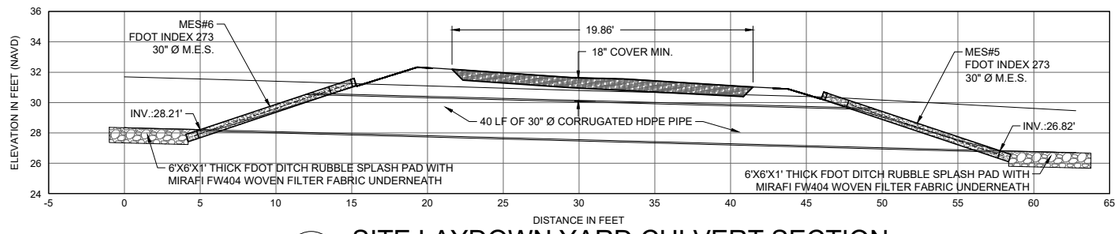



P04 / C-19

# SITE LAYDOWN YARD DETAIL PLAN

22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40'




S08 / C-19

# SITE LAYDOWN YARD CULVERT SECTION

22x34: 1" = 5'
11x17: 1" = 10'
V-SCALE: 1" = 2.5' (22X34)
V-SCALE: 1" = 5' (11X17)

0 5' 10'

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SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

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| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

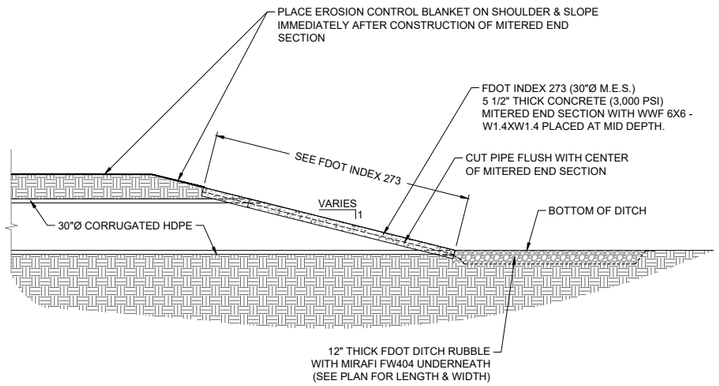
DRAWING TITLE

MAINTENACE & LAYDOWN AREA DETAILS

C-19

SHEET 19 OF 37

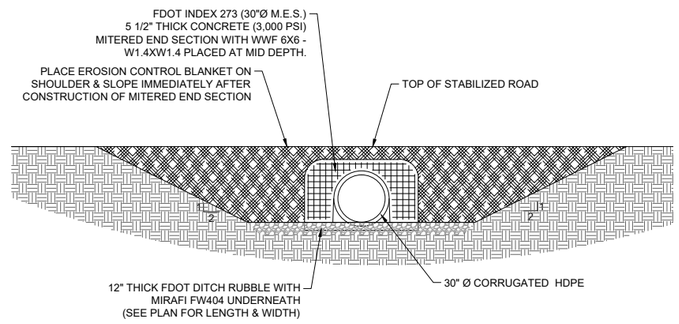
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## MITERED END SECTION TYPICAL SECTION DETAIL

22X34: 1" = 4'
11X17: 1" = 8'

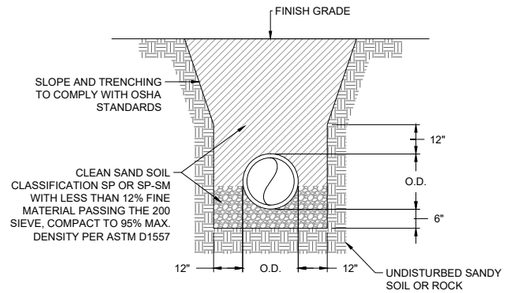
0 4 8'




## MITERED END SECTION TYPICAL ELEVATION DETAIL

22X34: 1" = 4'
11X17: 1" = 8'

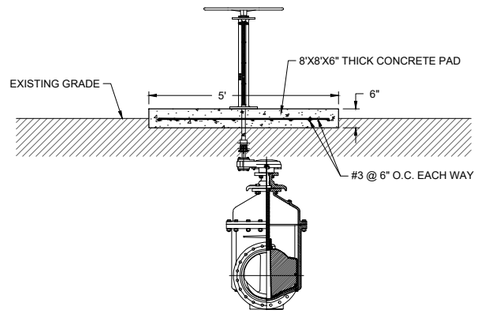
0 4 8'




## TYPICAL TRENCH DETAIL FOR PIPE INSTALLATION

22X34: 1" = 4'
11X17: 1" = 8'

0 4 8'




## TYPICAL RESILIENT WEDGE GATE VALVE

NOT TO SCALE

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| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

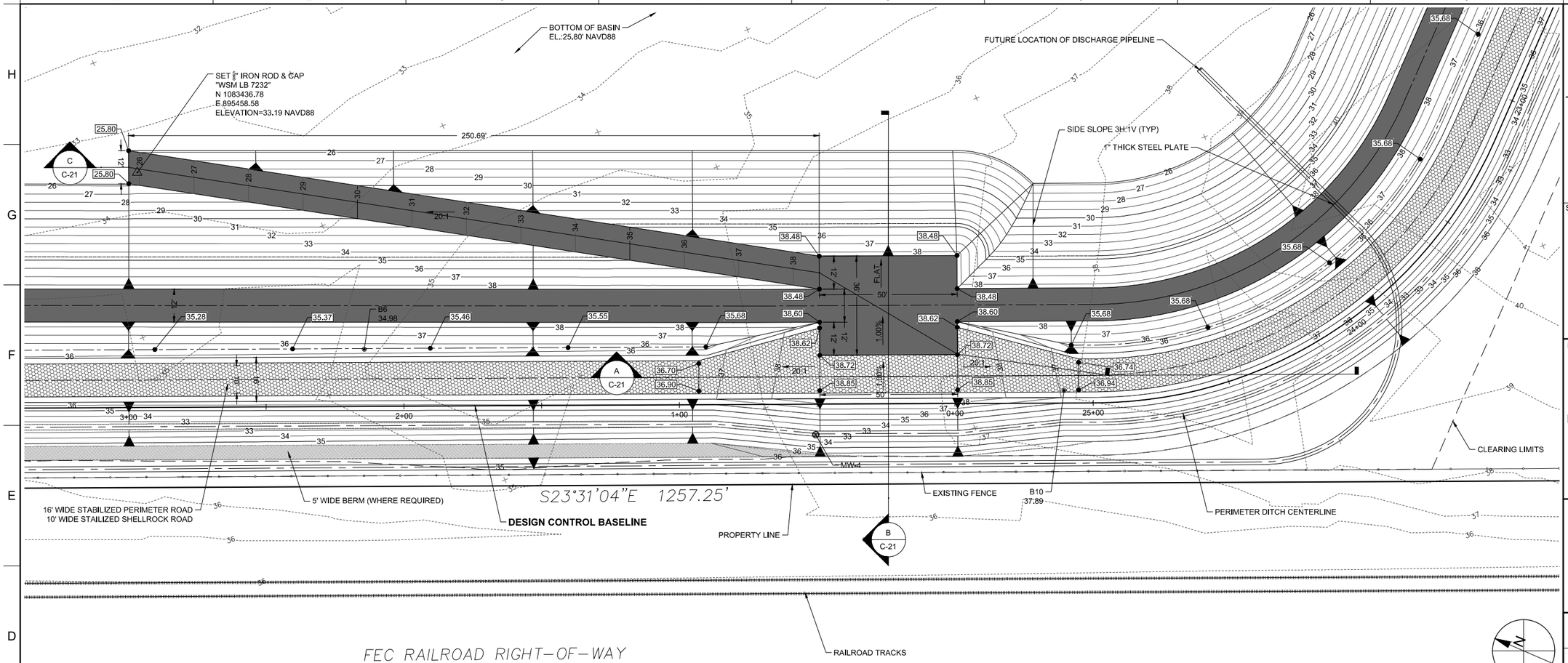
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MITERED END SECTION DETAILS

C-20

SHEET 20 OF 37

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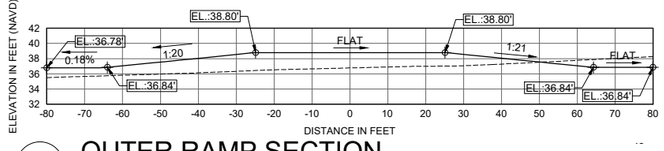



## DMMA RAMP DETAIL PLAN

P05 / C-09

22x34: 1" = 20'
11x17: 1" = 40'

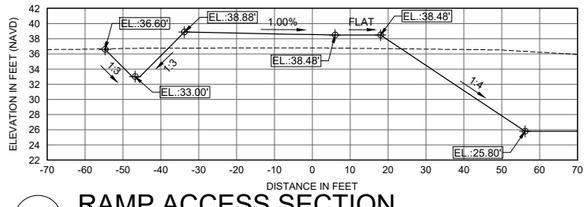
0 20' 40'




## A OUTER RAMP SECTION

22X34: 1" = 20'
11X17: 1" = 40'
VERT. SCALE: 1" = 10' (22x34)
VERT. SCALE: 1" = 20' (11x17)

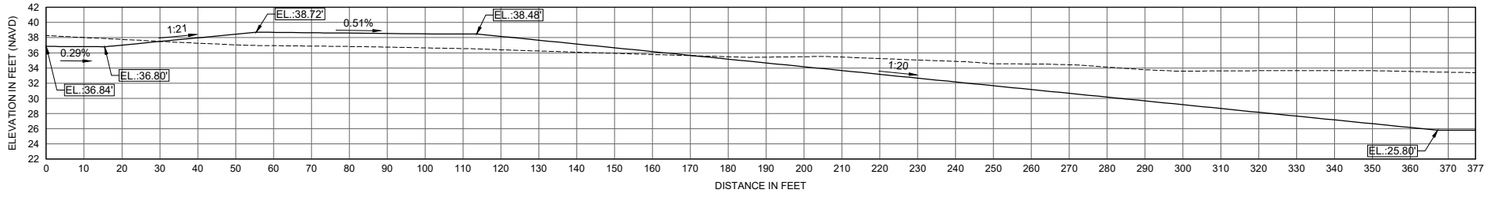
0 20' 40'




## B RAMP ACCESS SECTION

22X34: 1" = 20'
11X17: 1" = 40'
VERT. SCALE: 1" = 10' (22x34)
VERT. SCALE: 1" = 20' (11x17)

0 20' 40'




## C DIKE ACCESS RAMP PROFILE

22X34: 1" = 20'
11X17: 1" = 40'
VERT. SCALE: 1" = 10' (22x34)
VERT. SCALE: 1" = 20' (11x17)

0 20' 40'

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BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811 BEFORE YOU DIG
1-800-638-4097

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|---|---|---|---|

| | |
|---|---|
| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

DRAWING TITLE

DMMA RAMP DETAILS

C-21

SHEET 21 OF 37

REBECCA JOHNSON, 4/4/2018 12:00:03 PM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\C2016-053-C-SiteRamp.dwg

SITE STORAGE AREA
WITH STORAGE TRAILER

COLLECTOR PIPE TERMINUS
STA.:10+66.05
OFFSET:46.00' R
INVERT:23.60'

COLLECTOR PIPE TERMINUS
STA.:10+64.64
OFFSET:46.00' R
INVERT:23.60'

COLLECTOR INLET #2
DITCH BOTTOM INLET
FDOT INDEX 232 TYPE C
STA.:9+59.72
OFFSET:21.00' R
INLET TOP:24.31'
INVERT:22.28' 10" ∅ HDPE
INVERT:22.38' 6" ∅ HDPE
INVERT:22.38' 6" ∅ HDPE

CULVERT

DRAIN OUTLET
STA.:9+59.72
OFFSET:7.00' L
INVERT:22.00'

6'X8'X12" THICK RIP
RAP SPLASH PAD
(TYPICAL)

TOE OF DIKE

DITCH CENTERLINE

DRAIN OUTLET
STA.:12+07.19
OFFSET:12.00' L
INVERT:19.88'

COLLECTOR INLET #3
DITCH BOTTOM INLET
FDOT INDEX 232 TYPE C
STA.:12+07.19
OFFSET:21.00' R
INLET TOP:22.01'
INVERT:20.21' 10" ∅ HDPE
INVERT:20.31' 6" ∅ HDPE
INVERT:20.31' 6" ∅ HDPE

DRAIN OUTLET
STA.:14+09.28
OFFSET:12.00' L
INVERT:19.88'

COLLECTOR INLET #4
DITCH BOTTOM INLET
FDOT INDEX 232 TYPE C
STA.:14+09.28
OFFSET:21.00' R
INLET TOP:22.01'
INVERT:20.21' 10" ∅ HDPE
INVERT:20.31' 6" ∅ HDPE
INVERT:20.31' 6" ∅ HDPE

SITE ENTRANCE

CULVERT

DRAIN OUTLET
STA.:16+61.36
OFFSET:12.00' L
INVERT:19.88'

COLLECTOR INLET #5
DITCH BOTTOM INLET
FDOT INDEX 232 TYPE C
STA.:16+61.36
OFFSET:21.00' R
INLET TOP:22.01'
INVERT:20.21' 10" ∅ HDPE
INVERT:20.73' 6" ∅ HDPE
INVERT:20.73' 6" ∅ HDPE

COLLECTOR INLET #6
DITCH BOTTOM INLET
FDOT INDEX 232 TYPE C
STA.:19+13.08
OFFSET:21.00' R
INLET TOP:25.10'
INVERT:23.15' 10" ∅ HDPE
INVERT:23.25' 6" ∅ HDPE
INVERT:23.25' 6" ∅ HDPE

DRAIN OUTLET
STA.:19+11.85
OFFSET:7.00' L
INVERT:22.87'

12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00

100' (TYP)

125' 125'

25' 25' 25' 25'

INV.:20.56' INV.:20.56' INV.:20.98'

25.82' 25.84'

COLLECTOR PIPE TERMINUS
STA.:13+07.73
OFFSET:46.00' R
INVERT:21.56'

COLLECTOR PIPE TERMINUS
STA.:13+08.73
OFFSET:46.00' R
INVERT:21.56'

COLLECTOR PIPE TERMINUS
STA.:15+34.82
OFFSET:46.00' R
INVERT:22.23'

COLLECTOR PIPE TERMINUS
STA.:15+35.82
OFFSET:46.00' R
INVERT:22.23'

COLLECTOR PIPE TERMINUS
STA.:17+71.91
OFFSET:46.82' R
INVERT:24.47'

COLLECTOR PIPE TERMINUS
STA.:17+73.33
OFFSET:46.84' R
INVERT:24.47'

P07
C-23

DIKE CREST (TYP)

8"X6'X10' RIP RAP SPLASH PAD
(TYPICAL)

INV.:23.49'

LOCATE COLLECTOR PIPE TERMINUS EXACTLY 100
LF FROM COLLECTOR DRAIN INLET, EXCEPT WHERE
NOTED NEAR SITE ENTRANCE AS INDICATED.

(3) STEEL WEIR BOX

30" Ø WEIR OUTLET

INV.:22.60'

GRAVEL TOE DRAIN WITH 6" HDPE PERFORATED
COLLECTOR PIPE 25' TO 15' FROM TOE OF DIKE

COLLECTOR PIPE TERMINUS
STA.:8+59.52
OFFSET:38.94' R
INVERT:26.38'

COLLECTOR PIPE TERMINUS
STA.:8+58.52
OFFSET:38.90' R
INVERT:26.38'

COLLECTOR PIPE TERMINUS
STA.:20+68.46
OFFSET:36.00' R
INVERT:30.18'

17.94' 17.9'

15'

DRAIN OUTLET
STA.:7+50.15
OFFSET:7.00' L
INVERT:24.85'

INV.:25.38'

COLLECTOR INLET #1
DITCH BOTTOM INLET
FDOT INDEX 232 TYPE C
STA.:7+50.15
OFFSET:21.00' R
INLET TOP:26.98'
INVERT:25.13' 10" ∅ HDPE
INVERT:25.23' 6" ∅ HDPE
INVERT:25.23' 6" ∅ HDPE

COLLECTOR PIPE TERMINUS
STA.:6+20.23
OFFSET:36.00' R
INVERT:28.53'

INTERIOR RAMP

STA.: 0+00.00
N: 1083130.99
E: 895498.66

CENTERLINE OF STABILIZED ROAD

CULVERT

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 20+00 21+00 22+00 23+00 24+00 25+00

LAYDOWN YARD

EXTERIOR RAMP

FUTURE LOCATION OF DREDGE DISCHARGE PIPE

N

0 40' 80' 160'

GRAPHIC SCALE
22X34: 1" = 40'
11X17: 1" = 80'

REBECCA JOHNSON, 4/4/2018 12:00:27 PM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\C2016-053-C-ICD Plan.dwg


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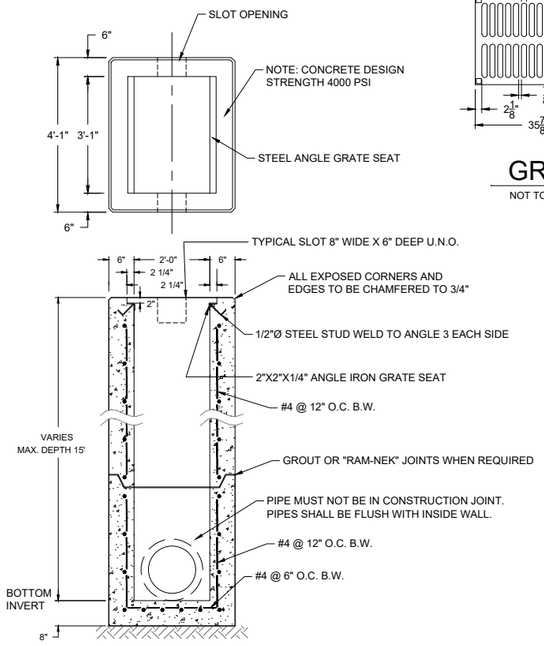
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|---|---|
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| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

DRAWING TITLE
GRAVEL TOE DRAIN & INTERNAL COLLECTOR DRAIN PLAN

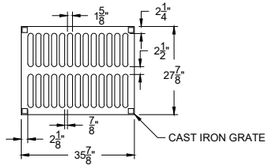
C-22

SHEET 22 OF 37



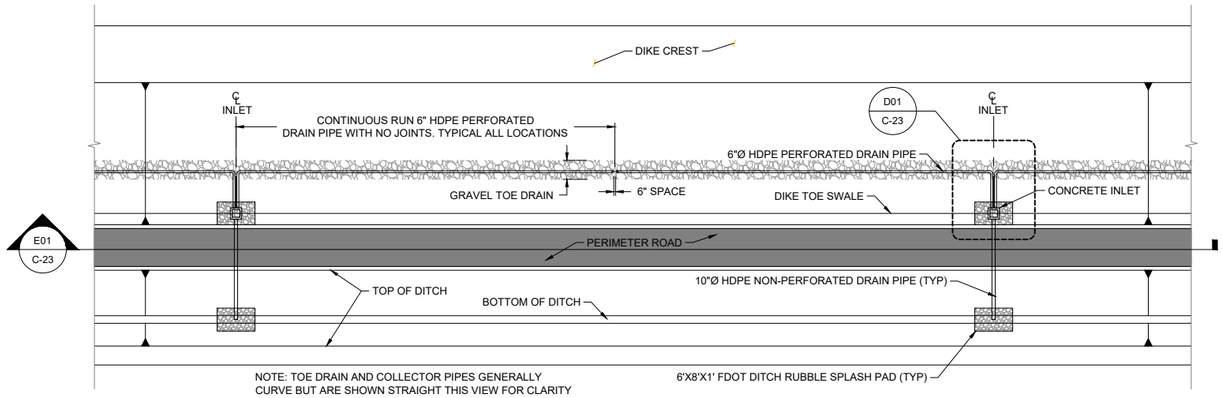

## FDOT INDEX 232 TYPE 'C' PRECAST CONCRETE INLET DETAIL

NOT TO SCALE




## GRATE DETAIL

NOT TO SCALE

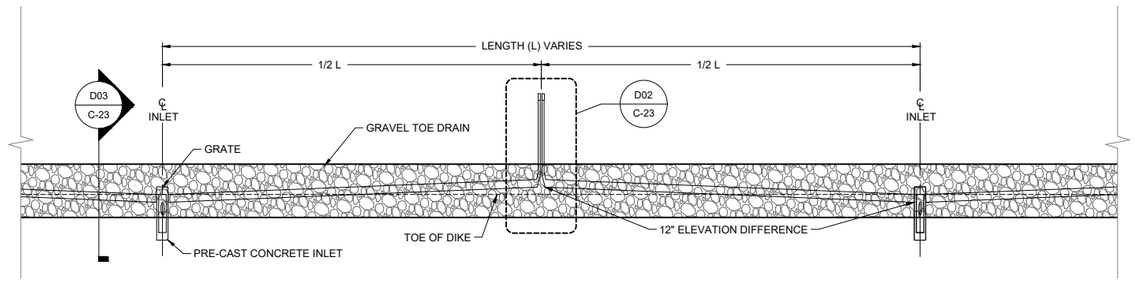



P07 C-22

## TOE DRAIN PLAN VIEW

22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40'

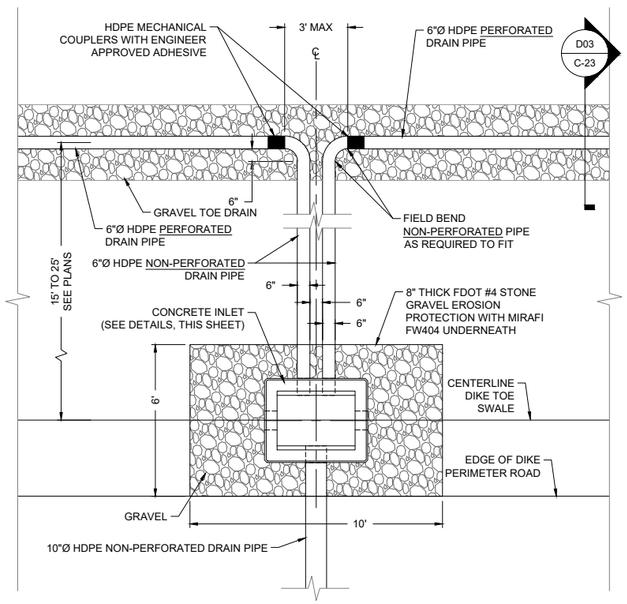



E01 C-23

## TOE DRAIN ELEVATION VIEW

22x34: 1" = 1'
11x17: 1" = 2'

0 1' 2'

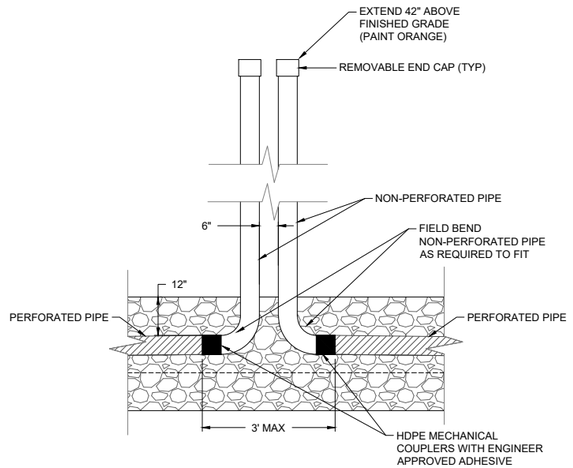



D01 C-23

## GRAVEL TOE DRAIN TO CONCRETE INLET DETAIL

22x34: 1" = 3'
11x17: 1" = 6'

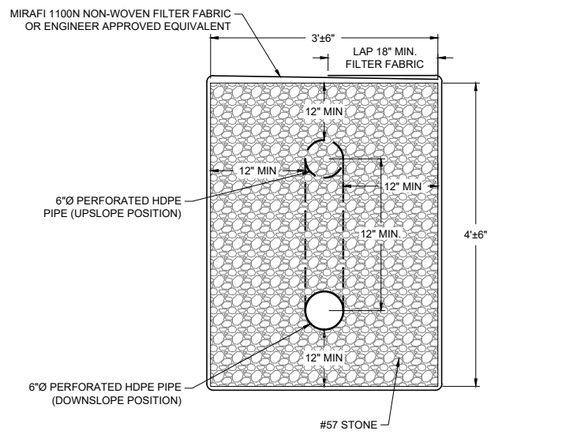
0 3' 6'




D02 C-23

## TOE DRAIN DETAIL

NOT TO SCALE




D03 C-23

## TYPICAL GRAVEL TOE DRAIN DETAIL

22x34: 1" = 4'
11x17: 1" = 8'

0 4' 8'

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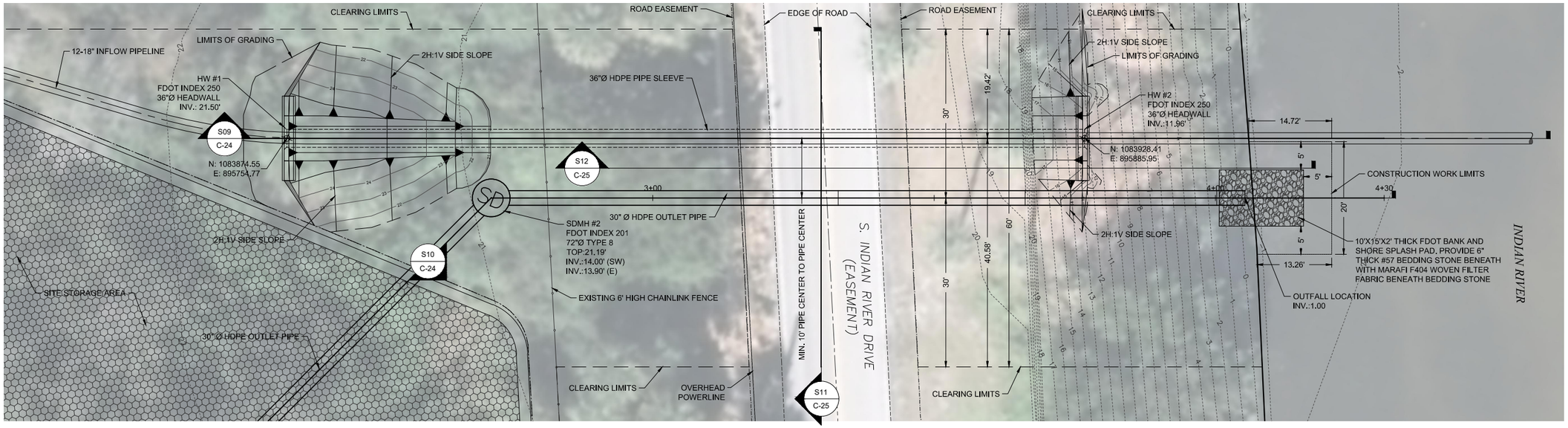
DRAWING TITLE

INTERNAL COLLECTOR DRAIN DETAILS

C-23

SHEET 23 OF 37

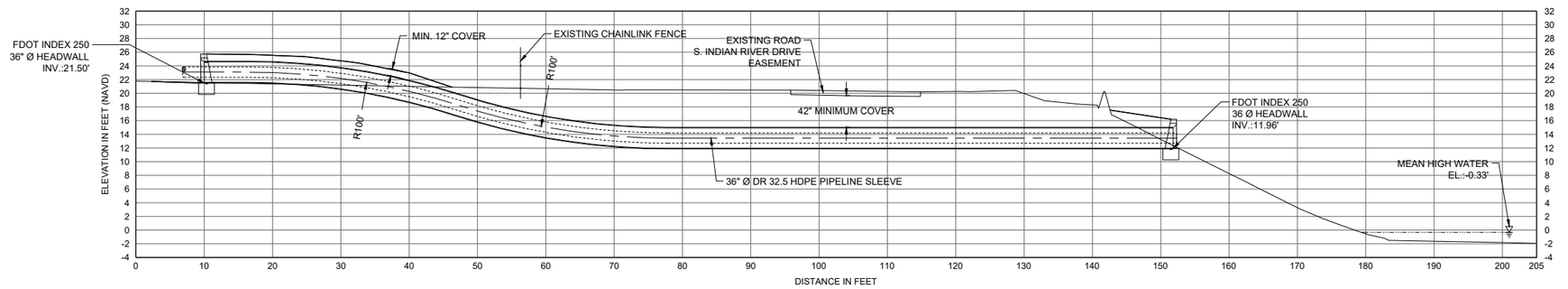
REBECCA JOHNSON, 4/4/2018 12:00:30 PM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\C2016-053-C-ICD Plan.dwg




# PIPELINES UNDER S. INDIAN RIVER DRIVE DETAIL PLAN

22x34: 1" = 10'
11x17: 1" = 20'

0 10' 20'

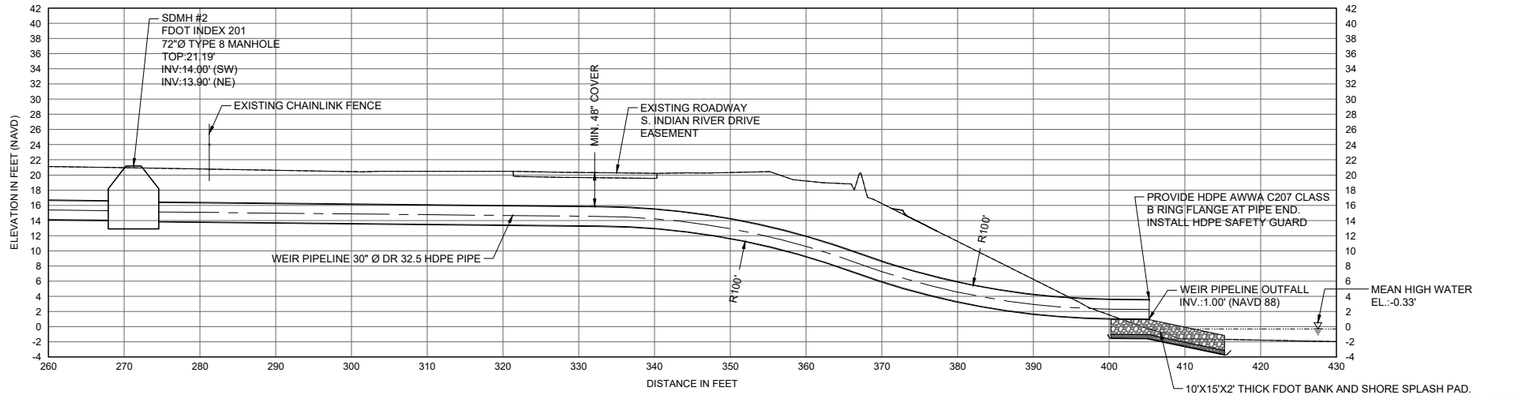



S09
C-24

# INFLOW PIPELINE SLEEVE SECTION

22x34: 1" = 10'
11x17: 1" = 20'
V-SCALE: 1" = 10' (22X34)
V-SCALE: 1" = 20' (11X17)

0 10' 20'




S10
C-24

# WEIR DISCHARGE PIPELINE UNDER S. INDIAN RIVER DRIVE SECTION

22x34: 1" = 10'
11x17: 1" = 20'
V-SCALE: 1" = 10' (22X34)
V-SCALE: 1" = 20' (11X17)

0 10' 20'

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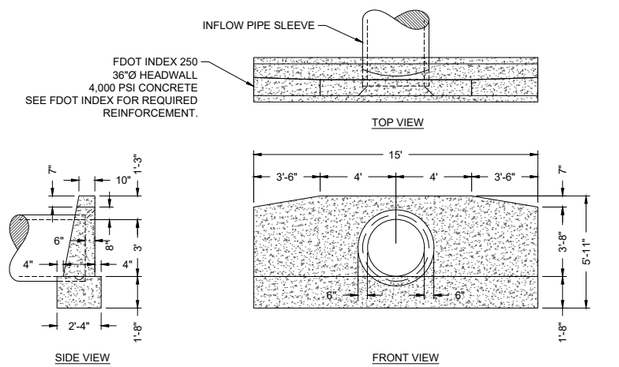
DRAWING TITLE

PIPELINE SLEEVE DETAILS

C-24



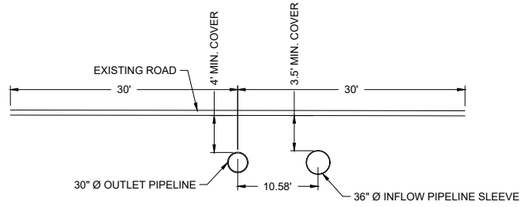
REBECCA JOHNSON, 4/4/2018 12:02:59 PM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\C2016-053-C-InflowDetails.dwg




# INFLOW PIPELINE SLEEVE HEADWALL

22X34: 1" = 4'
11X17: 1" = 8'

0 4' 8'

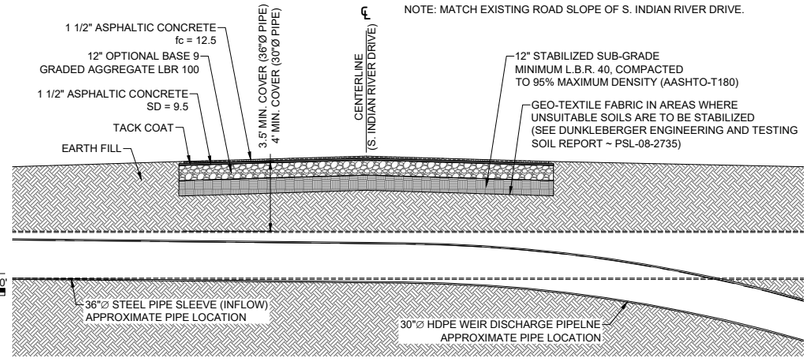



S11
C-24

# PIPELINE SLEEVES PIPE CROSS SECTION

22x34: 1" = 10'
11x17: 1" = 20'

0 10' 20'

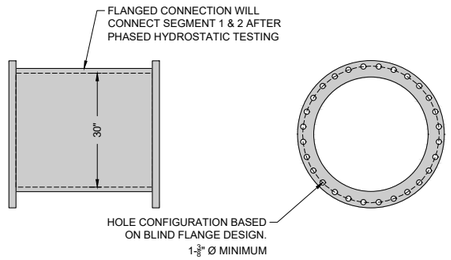



S12
C-24

# PIPELINE ROAD CROSS SECTION

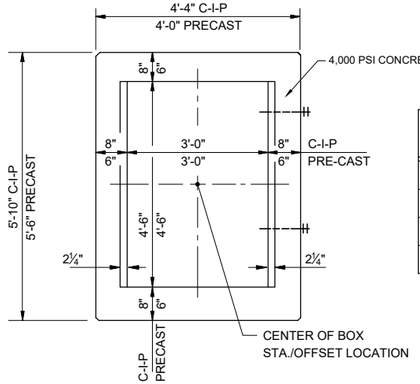
22x34: 1" = 10'
11x17: 1" = 20'

0 10' 20'




# OPTIONAL: 3' LONG FLANGED CONNECTION FOR PHASED HYDROSTATIC TESTING

NOT TO SCALE



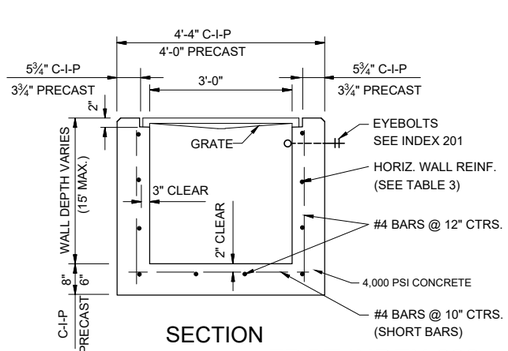

PLAN

## HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

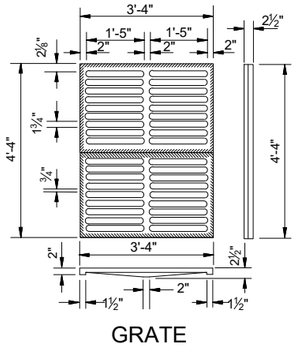
| WALL DEPTH | SCHEDULE | AREA (in.²/ft.) | MAX. SPACING | |
|---|---|---|---|---|
| | | | BARS | WWF |
| 0'-5' | A12 | 0.20 | 12" | 8" |
| 0'-7.5' | A6 | 0.20 | 6" | 5" |
| 7.5'-10' | B5.5 | 0.24 | 5½" | 5" |
| 10'-15' | C6.5 | 0.37 | 6½" | 6" |

TYPE E

RECOMMENDED MAXIMUM PIPE SIZE:
3'-0" WALL - 24" PIPE
4'-6" WALL - 36" PIPE



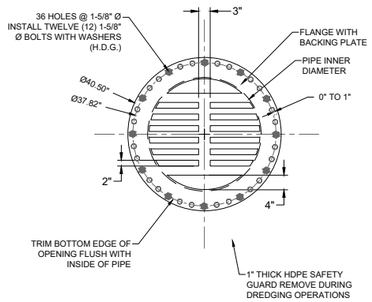

SECTION




GRATE

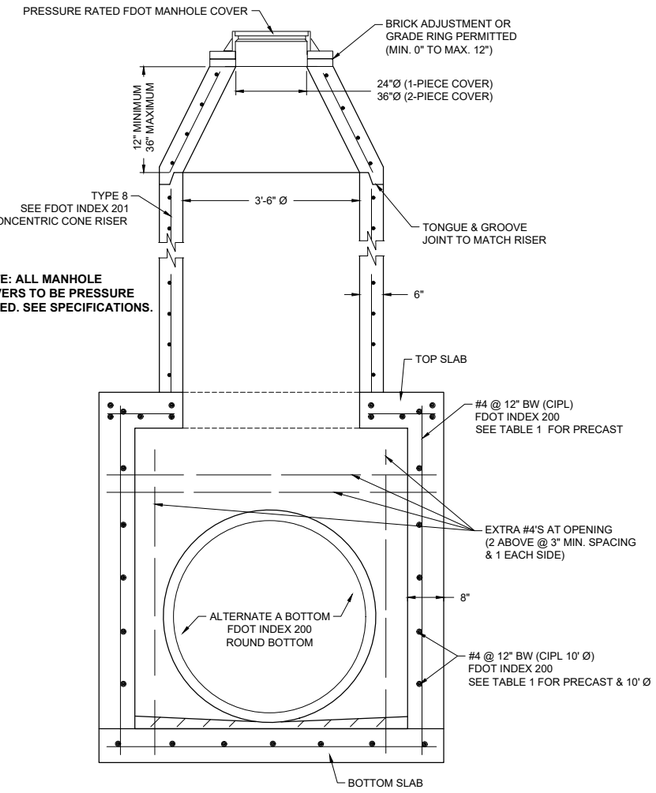
# FDOT INDEX 232
# PRE-CAST TYPE E DITCH BOTTOM INLET

NOT TO SCALE




# 30" Ø HDPE SAFETY GUARD

NOT TO SCALE




# MANHOLE DETAIL
# TYPE 8 PRE-CAST CONCENTRIC CONE RISER
# ALTERNATE A ROUND BOTTOM

NOT TO SCALE


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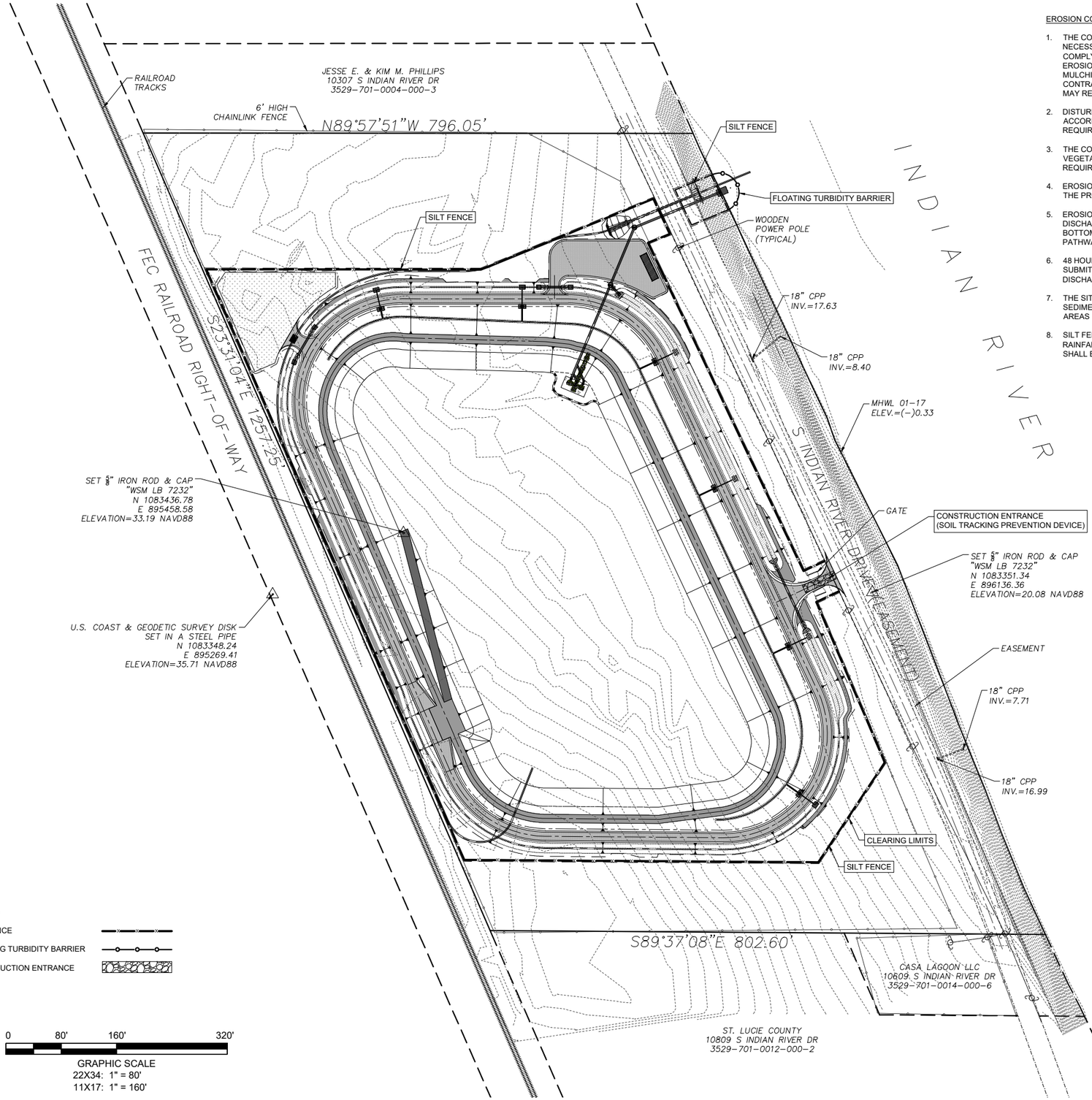
DRAWING TITLE

PIPELINE SLEEVE DETAILS

C-25

SHEET 25 OF 37

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EROSION CONTROL AND GENERAL VEGETATION NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND COMPLY WITH STATE WATER QUALITY CRITERIA FOR STORMWATER DISCHARGE. EROSION CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO TURBIDITY SCREENS, MULCHING, HAY BALES, AND SILT FENCE. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSTRUCTION COSTS, AND FINES.
2. DISTURBED AREAS SHALL BE VEGETATED, FERTILIZED, MULCHED, AND MAINTAINED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING PERMANENT VEGETATION AT ALL DISTURBED AREAS PER NPDES FINAL STABILIZATION REQUIREMENTS.
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL PERMANENT VEGETATION IS ESTABLISHED.
5. EROSION CONTROL MEASURES SHALL BE PLACED TO CONTAIN ALL POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS INCLUDING CURB INLETS, DITCH BOTTOM INLETS, DITCHES, AND DOWNSTREAM PORTIONS OF NATURAL DRAINAGE PATHWAYS, STREAMS, CANALS, AND TIDAL WATERS ADJACENT TO CONSTRUCTION.
6. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.
7. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
8. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

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10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA
CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811
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1-800-638-4097

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| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

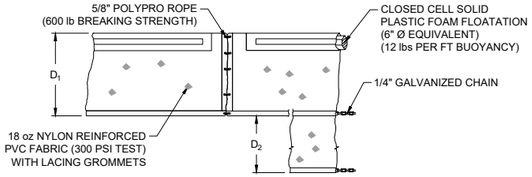
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EROSION CONTROL PLAN

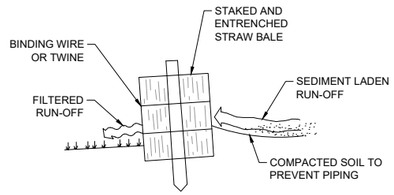
C-26

SHEET 26 OF 37

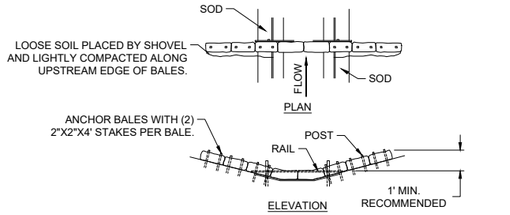
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FLOATING TURBIDITY BARRIER - TYPE 1

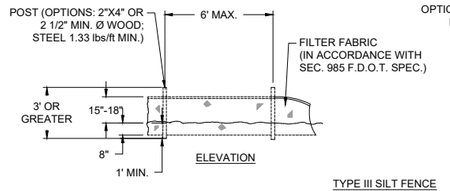


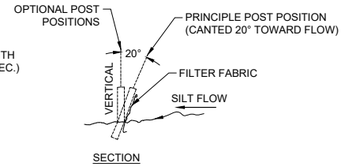

CROSS SECTION OF A PROPERLY INSTALLED STRAW BALE



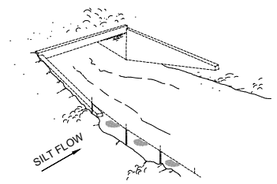

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102 OF THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

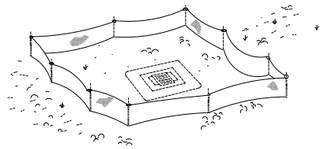
STRAW BALE BARRIER FOR PAVED DITCH



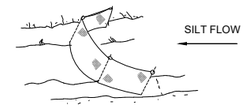




TYPE III SILT FENCE



TYPE III OR TYPE IV SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS.

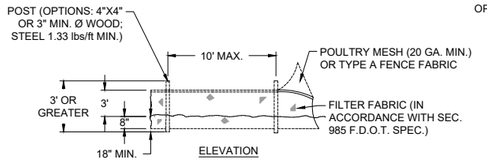


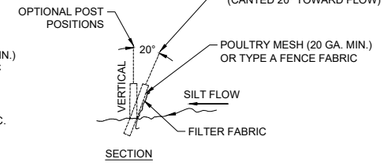

TYPE III AND IV SILT FENCE

DITCH INSTALLATION AND SPACING FOR TYPE III & TYPE IV FENCE TO BE IN ACCORDANCE WITH SHEET 1 OF 3, OF THE F.D.O.T. INDEX NO. 102

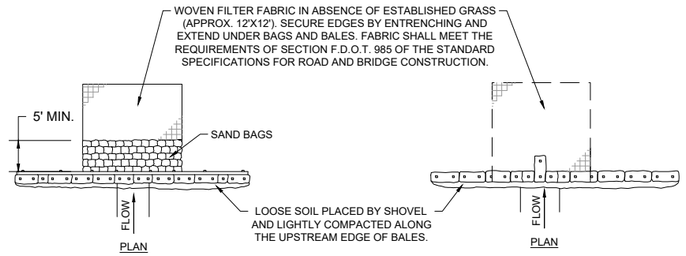
TYPE III OR TYPE IV SILT FENCE

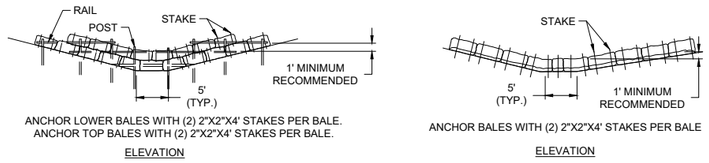
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.




TYPE IV SILT FENCE

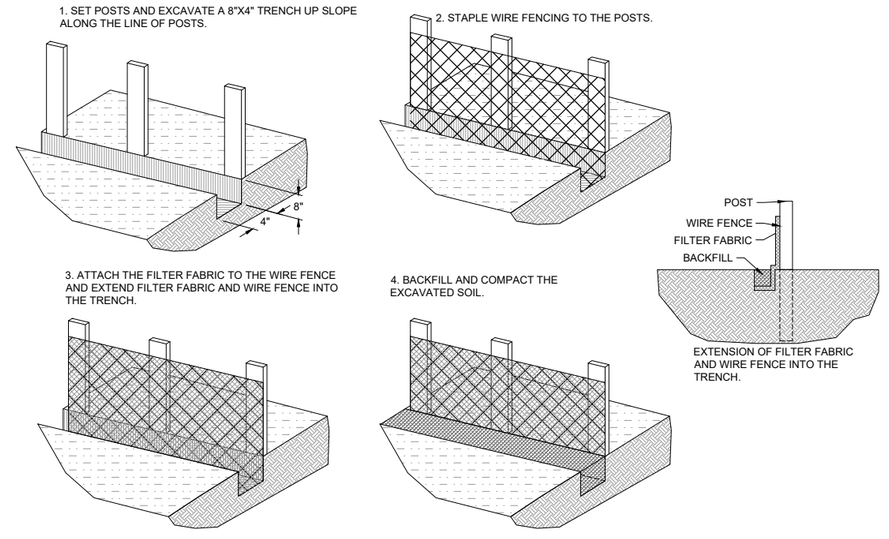



APPLICATION AND SPACING OF TYPES I & TYPES II HAY BALE BARRIERS SALL BE IN ACCORDANCE WITH SHEET 1 OF 3, F.D.O.T. INDEX NO. 102

TYPE II TYPE I

TYPICAL STRAW BALE DETAIL




SILT FENCE INSTALLATION DETAILS

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SEAL

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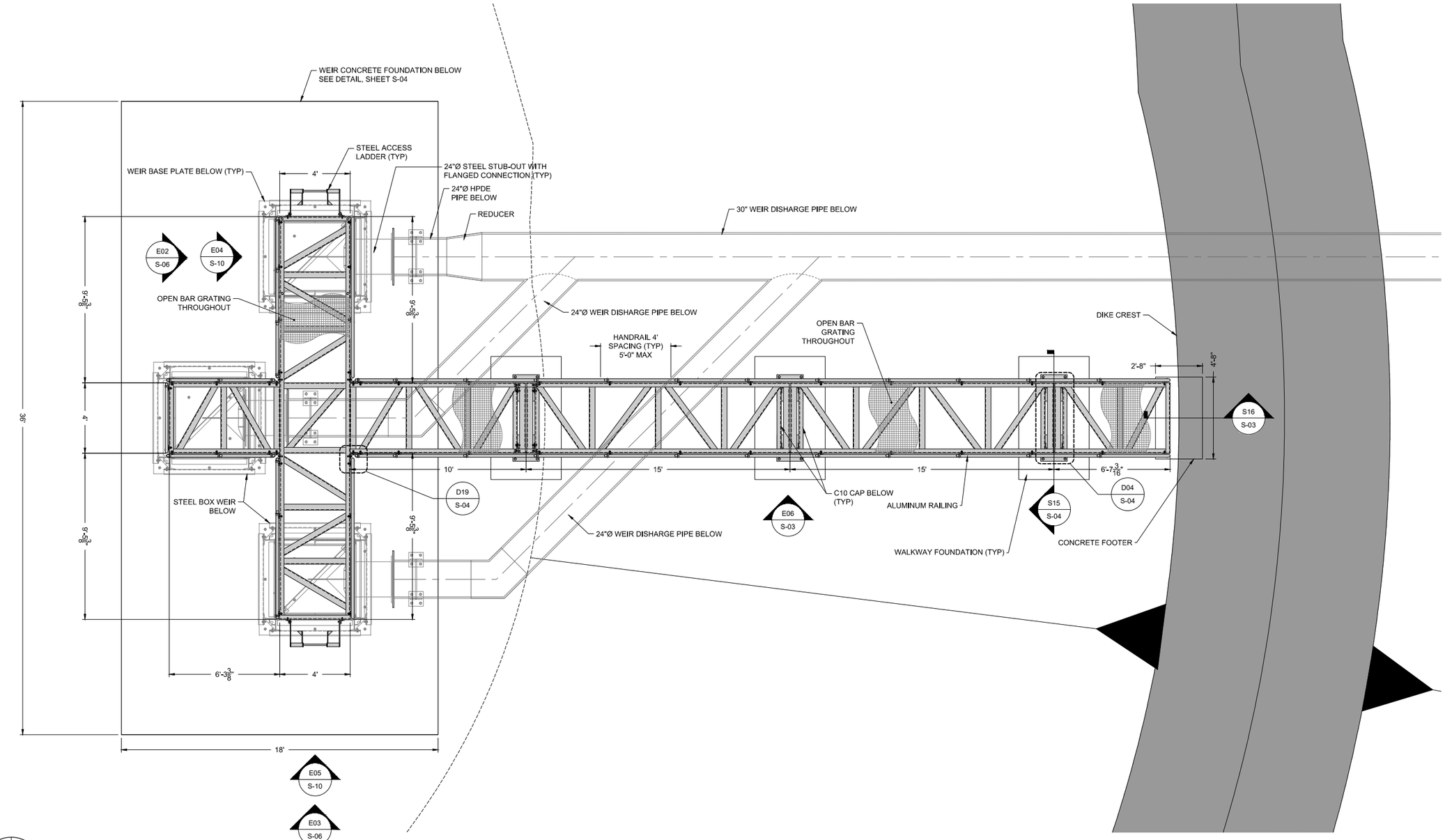
DRAWING TITLE

EROSION CONTROL NOTES & DETAILS

C-27

SHEET 27 OF 37

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NOTES:
1. BAR GRATING SHALL BE TYPE 6063-T6 ALUMINUM WITH GROOVED SURFACE.
2. GRATING SHALL BE 2-FT WIDE WITH 2 SECTIONS PLACED SIDE BY SIDE AND FASTENED TO STRUCTURE PER MANUFACTURER'S GUIDELINES.
3. GRATING SHALL HAVE A MINIMUM SAFE WORKING LOAD OF 60 PSF AT A 3.75-FT SPAN.
4. ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT U.N.O.
5. BOLTS SHALL BE H.D.G. STEEL U.N.O.
6. SEE SPECIFICATION 33.40.00 FOR FURTHER REQUIREMENTS.

P06 / C-16

# WEIR WALKWAY PLAN

22x34: 1" = 3'
11x17: 1" = 6'

0 3' 6'

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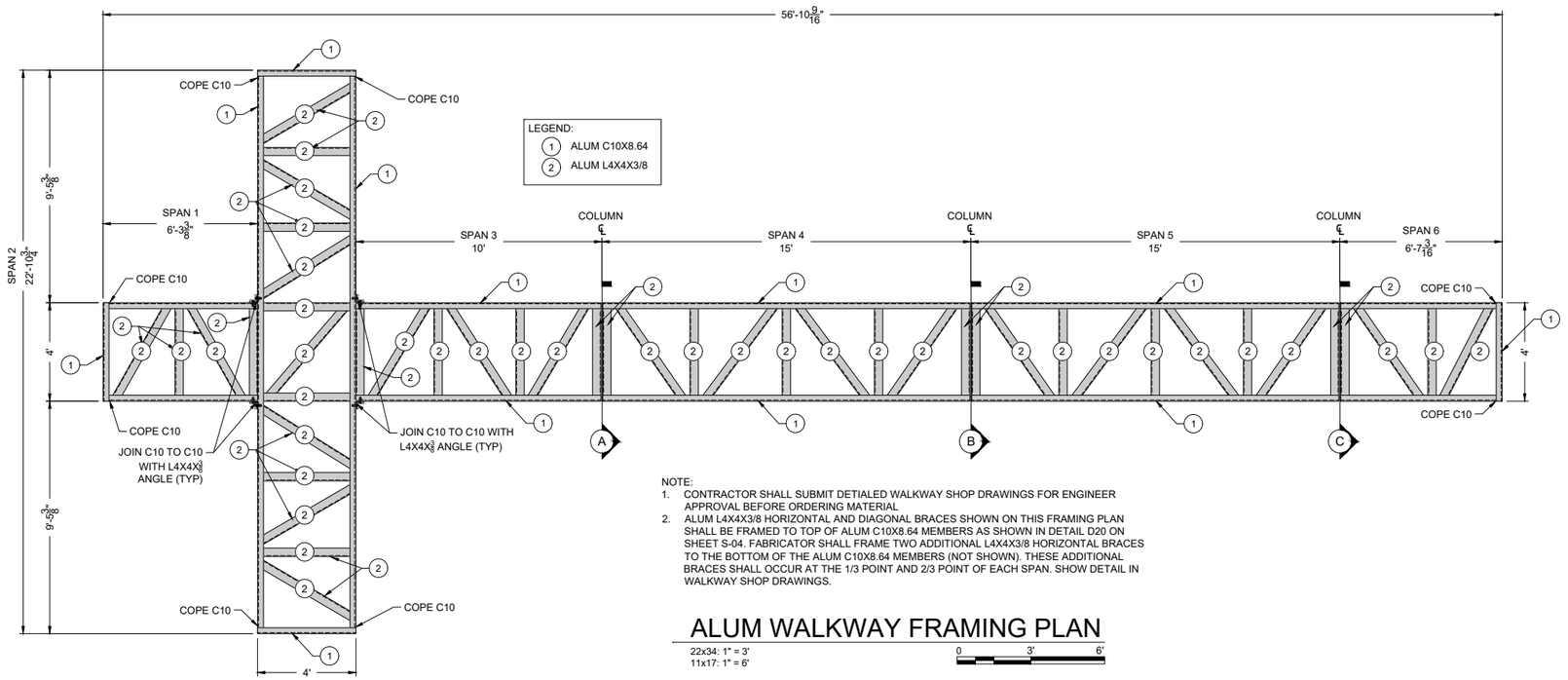
DRAWING TITLE

ALUMINUM WALKWAY PLAN

S-01

SHEET 28 OF 37

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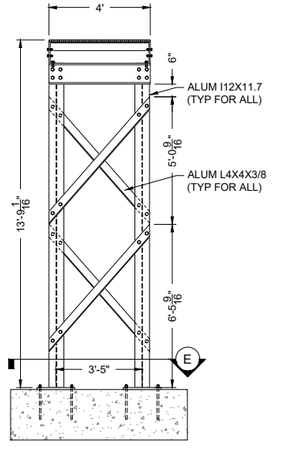



NOTE:
1. CONTRACTOR SHALL SUBMIT DETIALED WALKWAY SHOP DRAWINGS FOR ENGINEER APPROVAL BEFORE ORDERING MATERIAL
2. ALUM L4X4X3/8 HORIZONTAL AND DIAGONAL BRACES SHOWN ON THIS FRAMING PLAN SHALL BE FRAMED TO TOP OF ALUM C10X8.64 MEMBERS AS SHOWN IN DETAIL D20 ON SHEET S-04. FABRICATOR SHALL FRAME TWO ADDITIONAL L4X4X3/8 HORIZONTAL BRACES TO THE BOTTOM OF THE ALUM C10X8.64 MEMBERS (NOT SHOWN). THESE ADDITIONAL BRACES SHALL OCCUR AT THE 1/3 POINT AND 2/3 POINT OF EACH SPAN. SHOW DETAIL IN WALKWAY SHOP DRAWINGS.

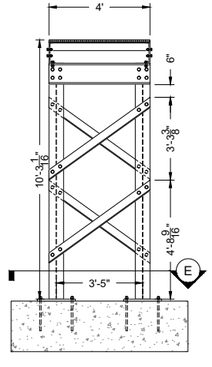
# ALUM WALKWAY FRAMING PLAN

22x34: 1" = 3'
11x17: 1" = 6'

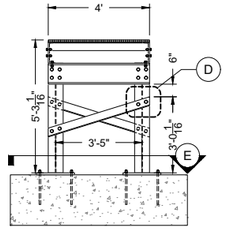
0 3' 6'



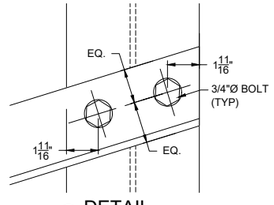

A SECTION
1" = 3'




B SECTION
1" = 3'




C SECTION
1" = 3'



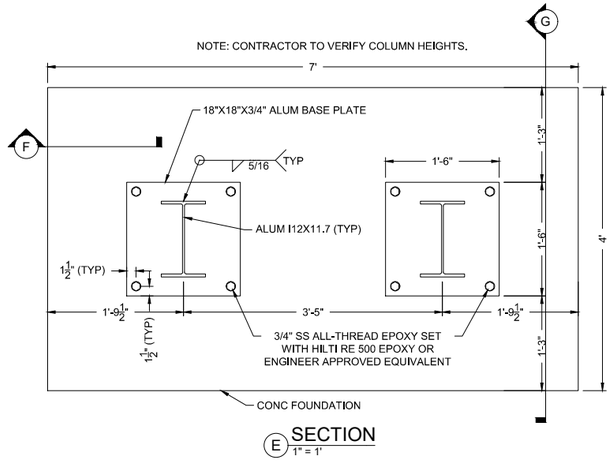

D DETAIL
3" = 1'

NOTE: CONTRACTOR TO VERIFY COLUMN HEIGHTS.

# ALUM WALKWAY PILE BRACING DETAILS

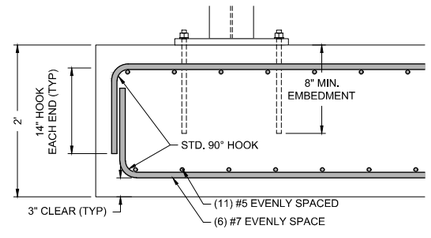
22x34: 1" = 3'
11x17: 1" = 6'

0 3' 6'

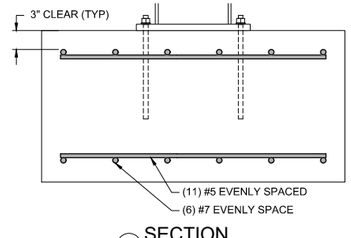



E SECTION
1" = 1'

NOTE:
CONTRACTOR SHALL HAVE THE OPTION OF PER-CASTING WALKWAY FOOTINGS AT PROJECT SITE




F SECTION
1" = 1'




G SECTION
1" = 1'

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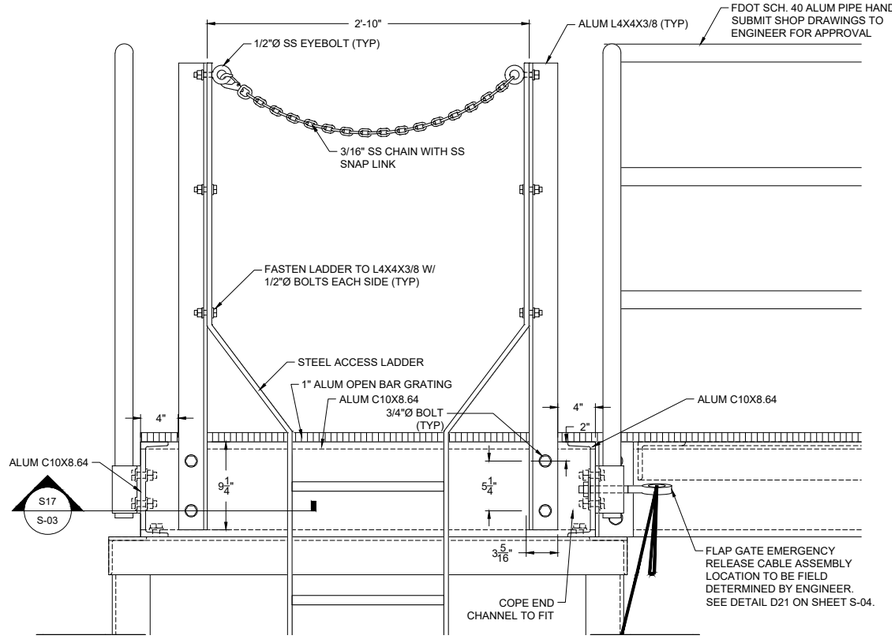
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ALUMINUM WALKWAY FRAMING PLAN AND DETAILS

S-02

SHEET 29 OF 37

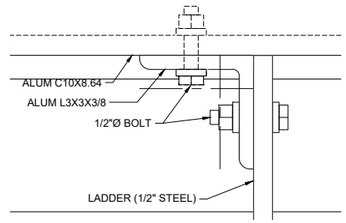
REBECCA JOHNSON, 4/4/2018 12:04:19 PM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\Wier walkway Framing Plan.dwg




E08 / S-10 — WEIR LADDER TO WALKWAY CONNECTION SIDE ELEVATION

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

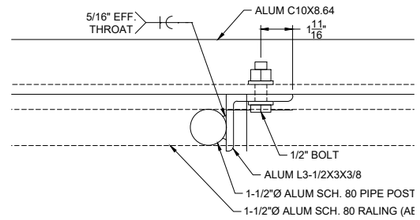
0 1/2" 1'




S17 / S-03 — STEEL TO JOIST CONNECTION LADDER SUPPORT TYPICAL SECTION

22X34: 6" = 1'
11X17: 3" = 1'

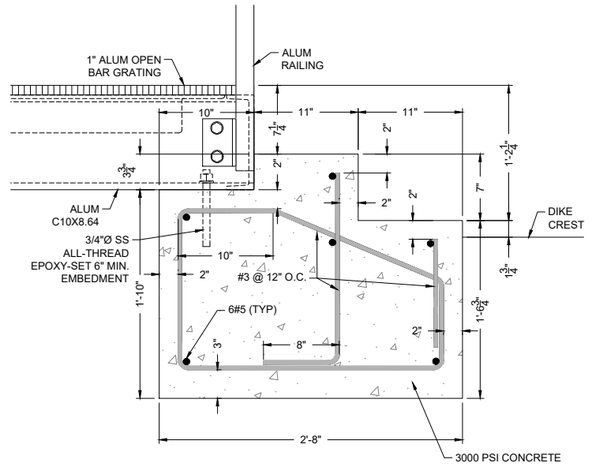
0 2' 3'




S24 / S-03 — RAILING MOUNT PLAN DETAIL

22X34: 3" = 1'
11X17: 1 1/2" = 1'

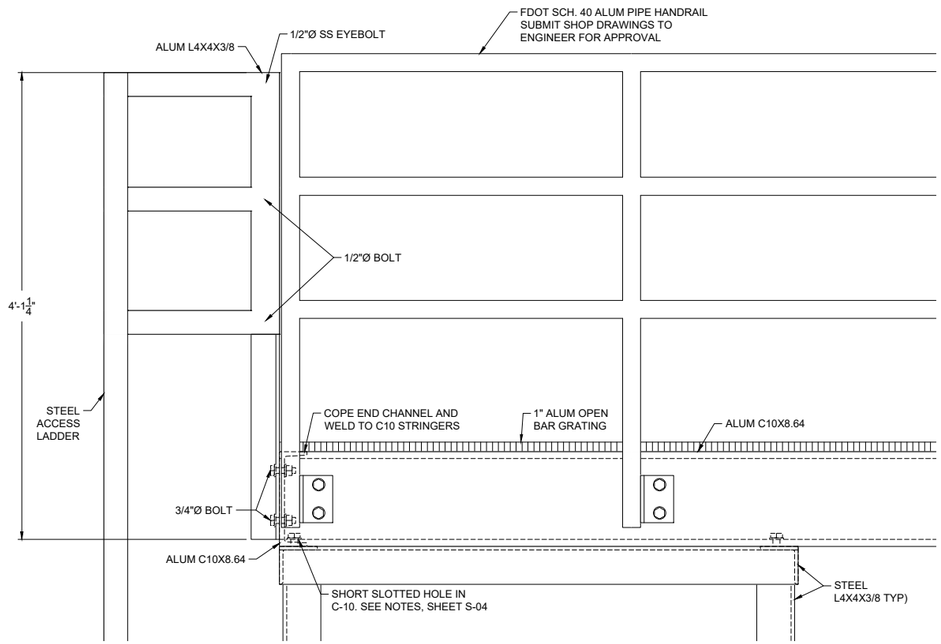
0 3' 6'




S16 / S-01 — WALKWAY CONCRETE FOOTER SECTION

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

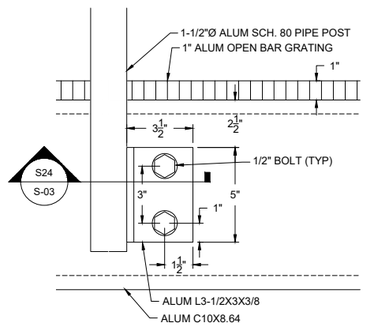
0 1/2" 1'




E07 / S-10 — WEIR LADDER TO WALKWAY CONNECTION FRONT ELEVATION

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

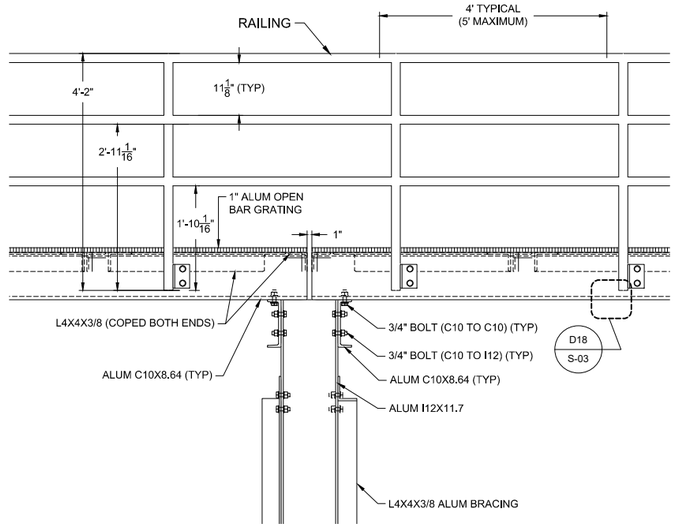
0 1/2" 1'




D18 / S-03 — RAILING MOUNT FRONT DETAIL

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'




E06 / S-01 — PILE CAP & WALKWAY DETAIL ELEVATION

22X34: 3/4" = 1'
11X17: 3/8" = 1'

0 1' 2'

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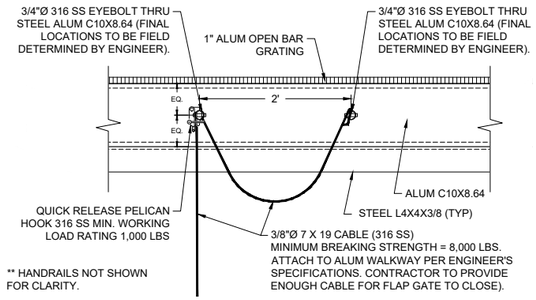
ALUMINUM WALKWAY DETAILS

S-03

SHEET 30 OF 37

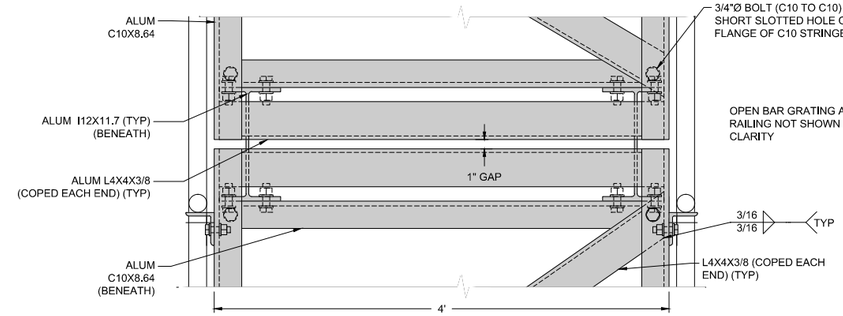
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NOTES:
1. WHERE SHORT SLOTTED HOLES ARE REQUIRED, BOLTS SHALL BE FINGER-TIGHT ONLY
2. SHORT SLOTTED HOLES SHALL HAVE A STANDARD NUT AND A JAM NUT TO KEEP THE FINGER-TIGHT CONNECTION FROM BACKING OFF
3. PLACE 2"X2"X3/16" THICK AASHTO-GRADE NEOPRENE BEARING PAD BETWEEN CONNECTING MEMBERS WHERE SHORT SLOTTED HOLES ARE REQUIRED
4. SET BOLT CENTER AT CENTER OF SHORT SLOTTED HOLES
5. LENGTH OF SHORT SLOTEED HOLES SHALL BE 1" U.N.O.



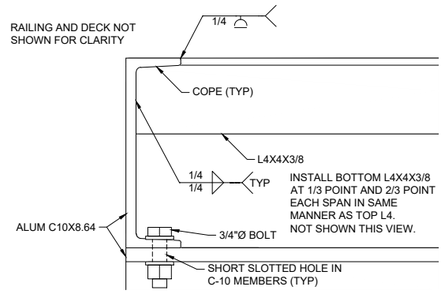

## FLAP GATE EMERGENCY RELEASE CABLE ASSEMBLY DETAIL

D21 / S-06 — 22X34: 1" = 1' — 11X17: 1" = 2' — 0 6" 1'



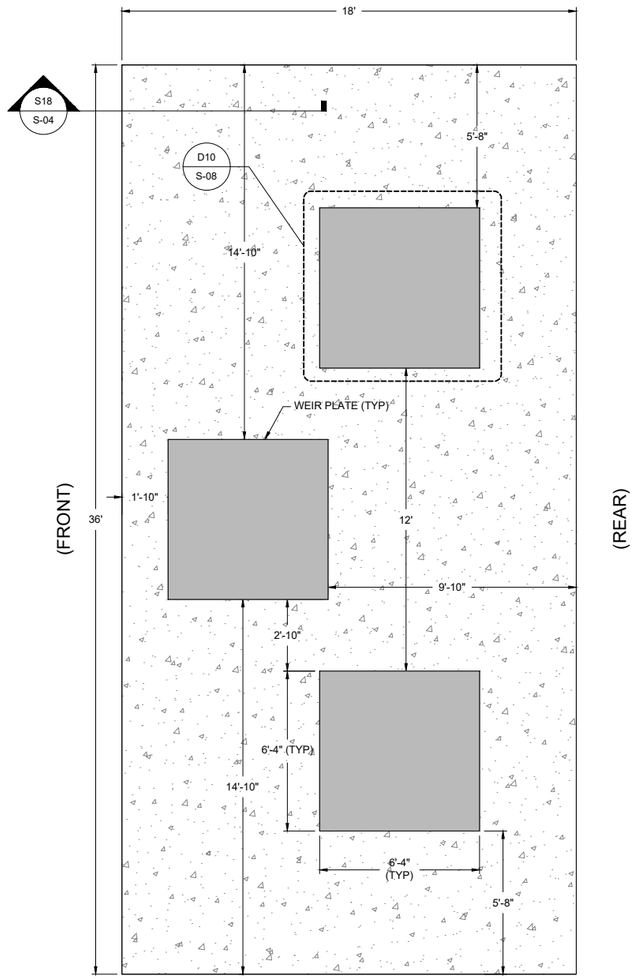

## PILE CAP & JOINT PLAN DETAIL

D04 / S-01 — 22X34: 1 1/2" = 1' — 11X17: 3/4" = 1' — 0 1/2" 1'



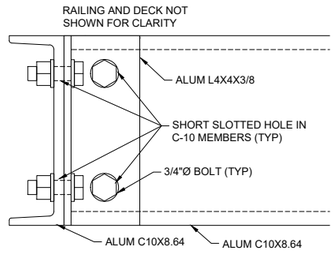

## WALKWAY DETAIL

D20 / S-04 — 22X34: 3" = 1' — 11X17: 1 1/2" = 1' — 0 3' 6'



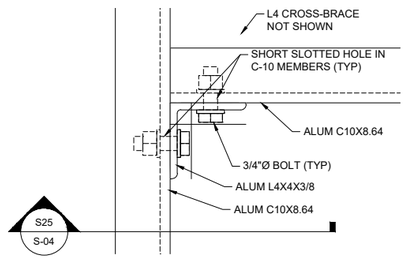

## WEIR FOUNDATION PLAN

22x34: 1" = 3' — 11x17: 1" = 6' — 0 3' 6'



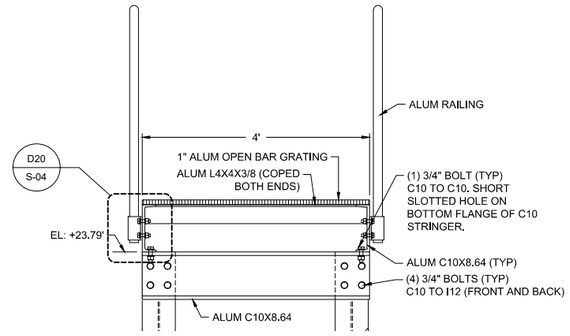

## WALKWAY BEAM CONNECTION SECTION

S25 / S-04 — 22X34: 3" = 1' — 11X17: 1 1/2" = 1' — 0 3' 6'



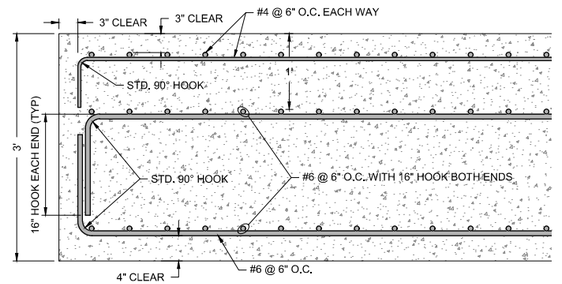

## WALKWAY BEAM CONNECTION DETAIL

D19 / S-01 — 22X34: 3" = 1' — 11X17: 1 1/2" = 1' — 0 3' 6'




## PILE CAP & WALKWAY DETAIL SECTION

S15 / S-01 — 22X34: 3/4" = 1' — 11X17: 3/8" = 1' — 1' 2' 0




## WEIR FOUNDATION REINFORCEMENT SECTION

S18 / S-04 — 22X34: 1" = 1' — 11X17: 1/2" = 1' — 0 1' 2'


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SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA CONSTRUCTION DRAWINGS
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| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

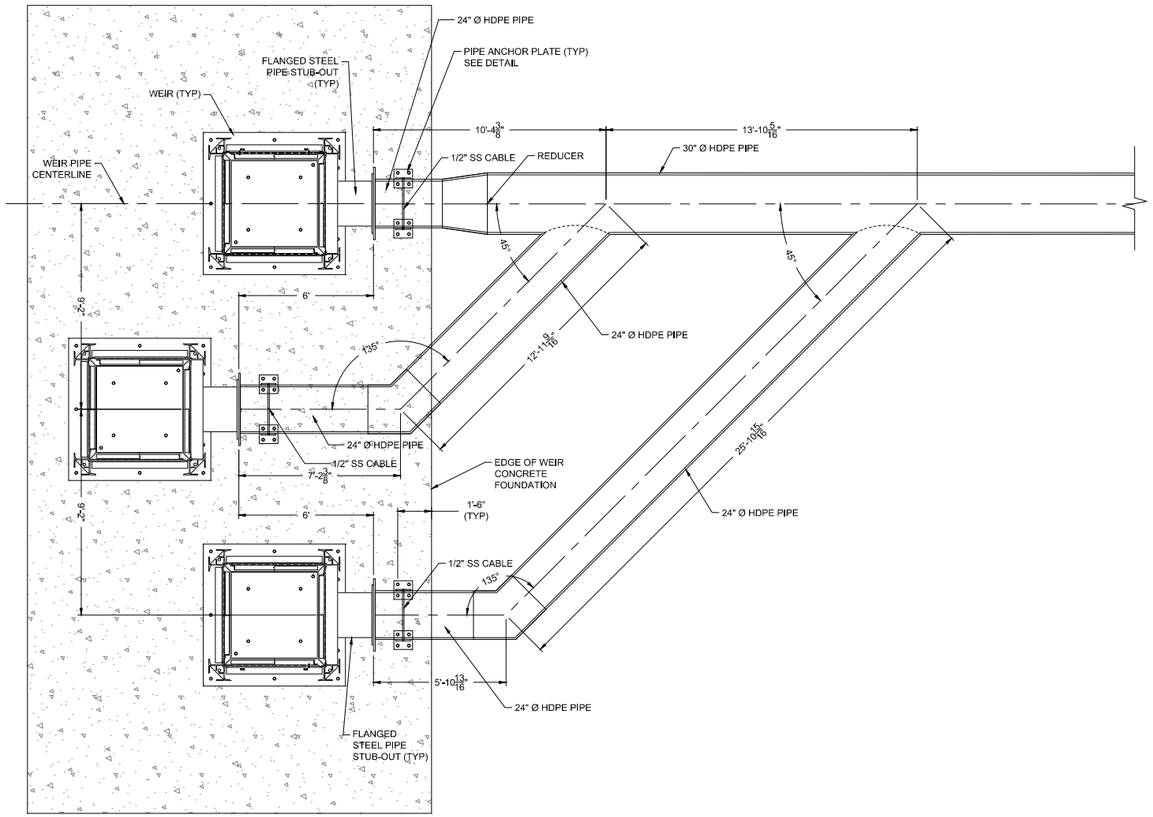
DRAWING TITLE

ALUMINUM WALKWAY AND FOUNDATION DETAILS

S-04

SHEET 31 OF 37

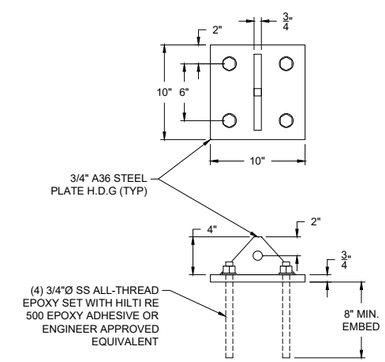
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## HDPE WEIR PIPE LAYOUT

22x34: 1" = 3'
11x17: 1" = 6'

0 3' 6'




## PIPE ANCHOR PLATE

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

0 1/2" 1'

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| SCALE | AS SHOWN |

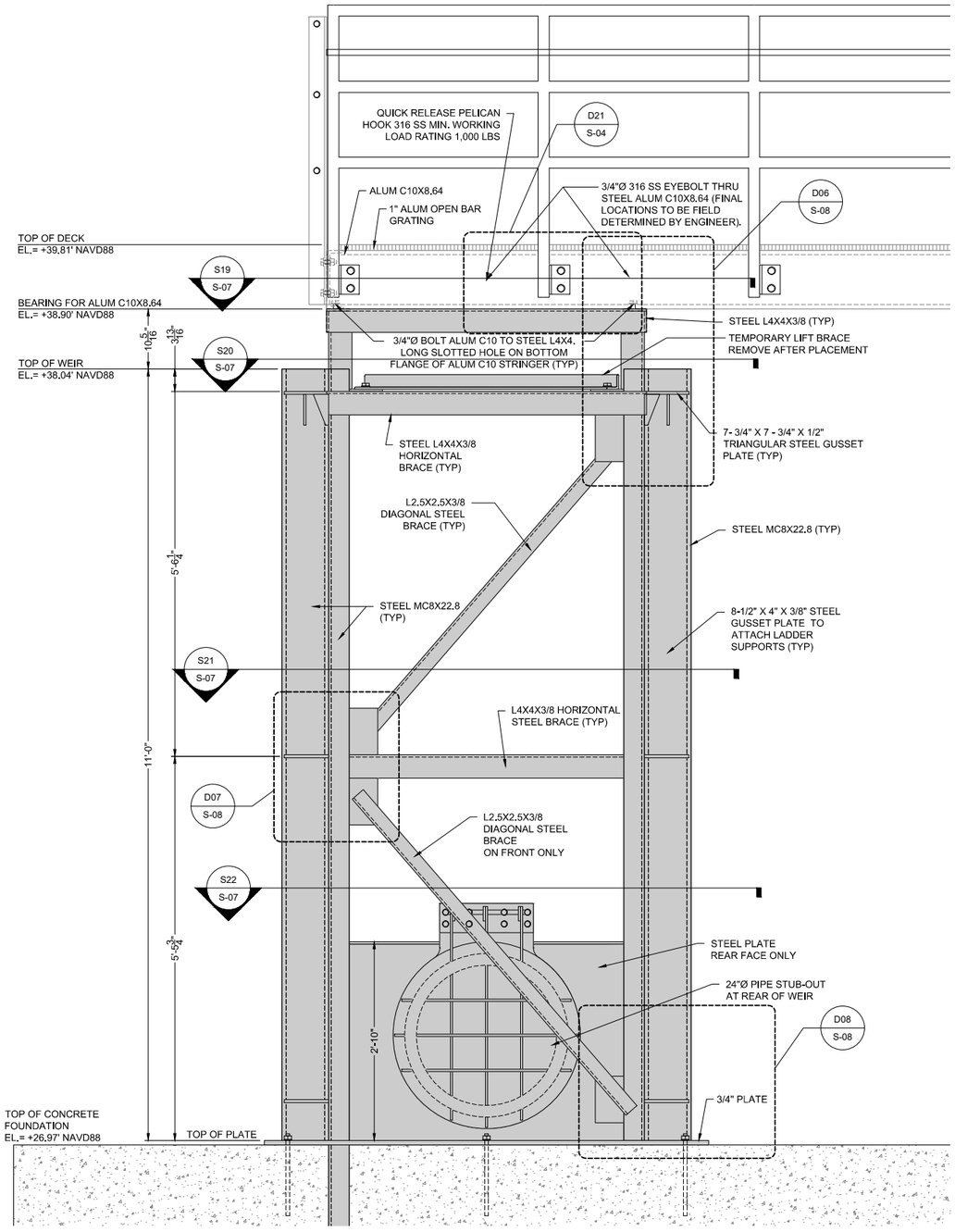
DRAWING TITLE

WEIR FOUNDATION DETAILS

S-05

SHEET 32 OF 37

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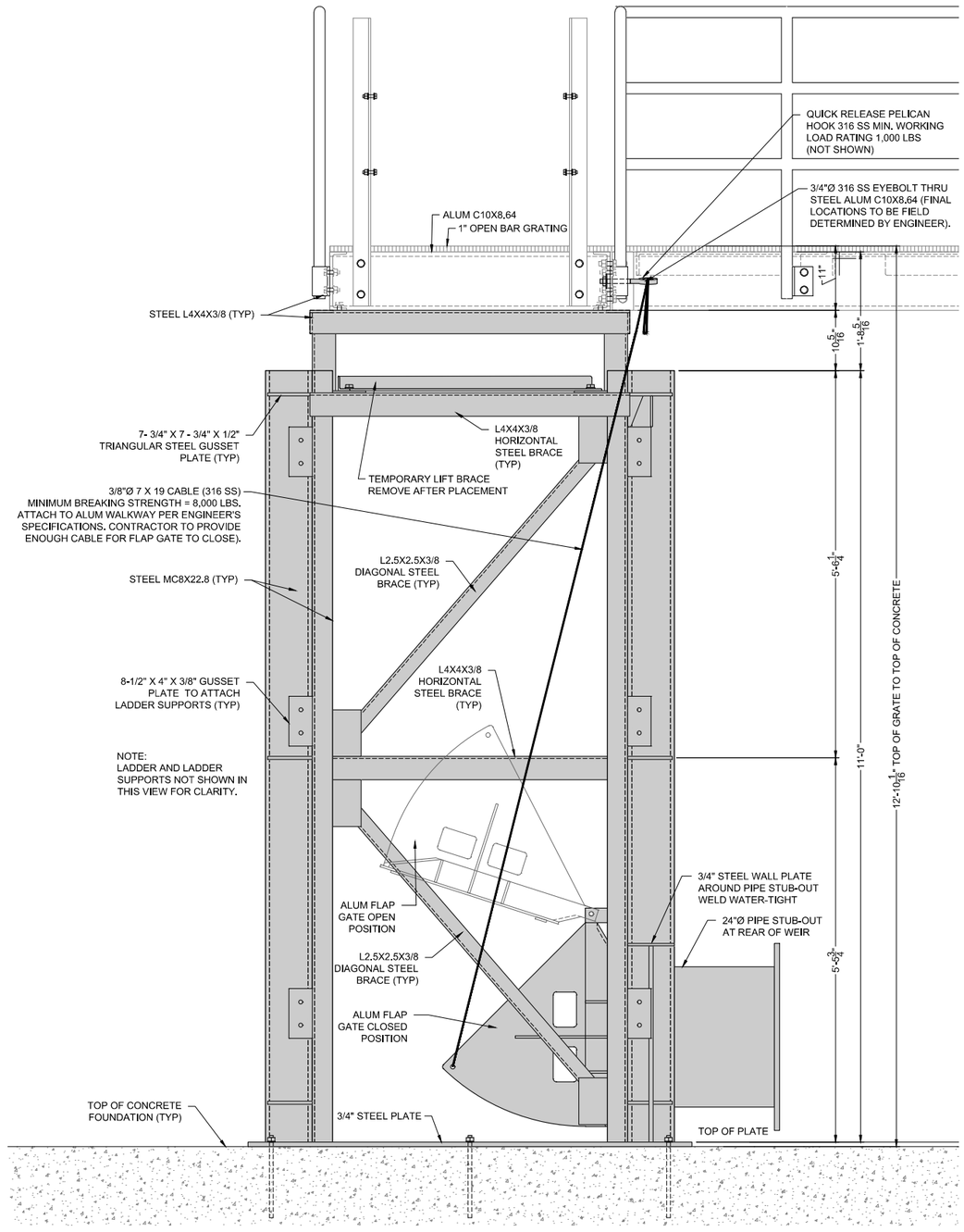



E02 S-01

## WEIR FRONT TYPICAL ELEVATION

22X34: 1' = 1'
11X17: 1' = 2'

0 1' 2'




E03 S-01

## WEIR SIDE TYPICAL ELEVATION

22X34: 1"=1'
11X17: 1"=2'

0 CUSTOM CUSTOM

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| SCALE | AS SHOWN |

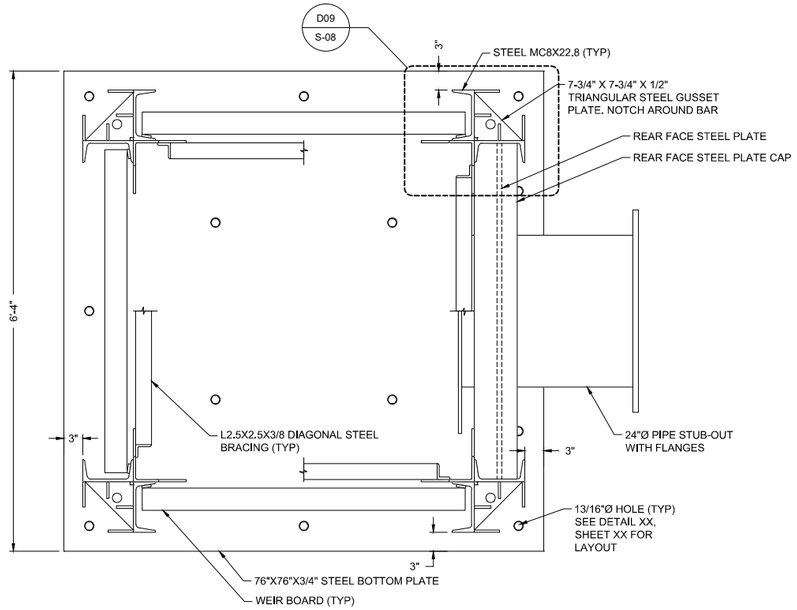
DRAWING TITLE

STEEL WEIR ELEVATIONS

S-06

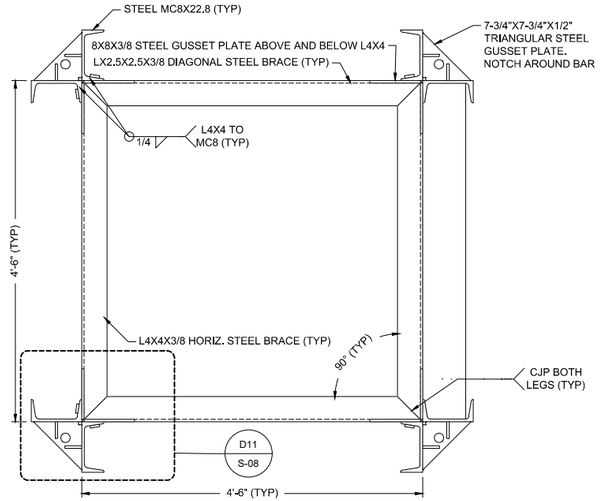
SHEET 33 OF 37

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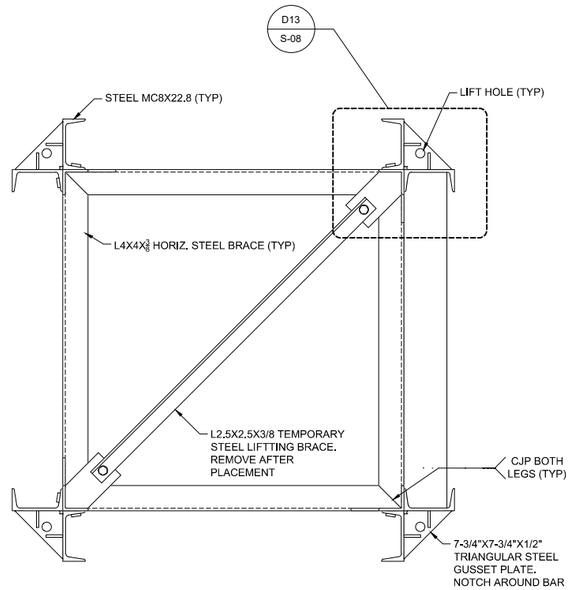

S22 / S-06 **LOWER WEIR SECTION**

22X34: 1" = 1'
11X17: 1/2" = 1'



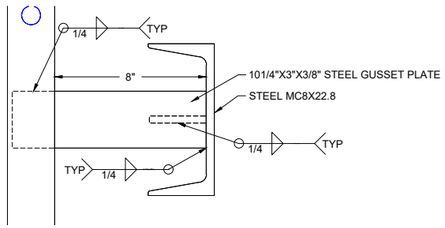

S21 / S-06 **MIDDLE WEIR SECTION**

22X34: 1" = 1'
11X17: 1/2" = 1'



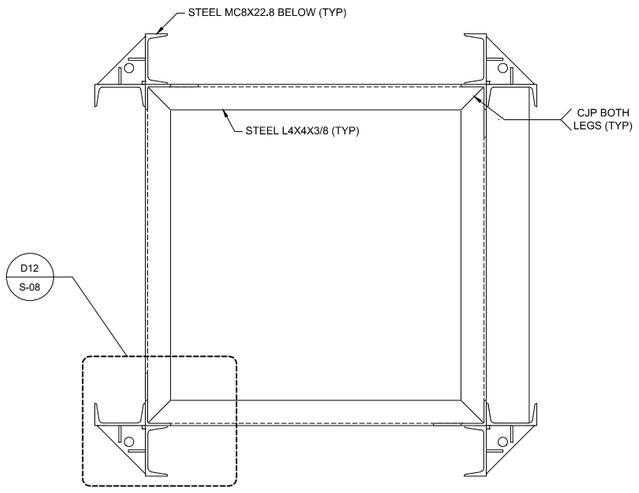

S20 / S-06 **UPPER WEIR SECTION**

22X34: 1" = 1'
11X17: 1/2" = 1'



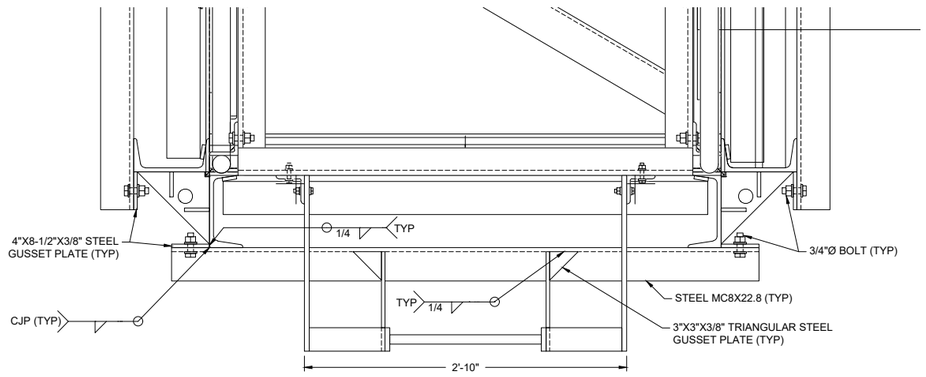

D17 / S-10 **TYPICAL LADDER SUPPORT DETAIL**

22X34: 3" = 1'
11X17: 1 1/2" = 1'




S19 / S-06 **TOP WEIR SECTION**

22X34: 1" = 1'
11X17: 1/2" = 1'




S23 / S-10 **WEIR LADDER TYPICAL PLAN**

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

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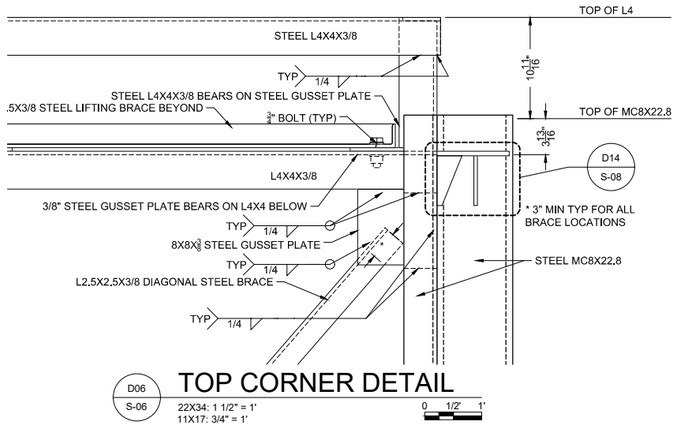
DRAWING TITLE

STEEL WEIR DETAILS

S-07

SHEET 34 OF 37

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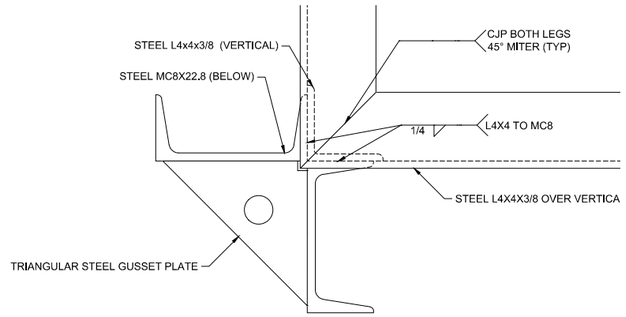



## TOP CORNER DETAIL

D06 / S-06

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

0 1/2" 1'

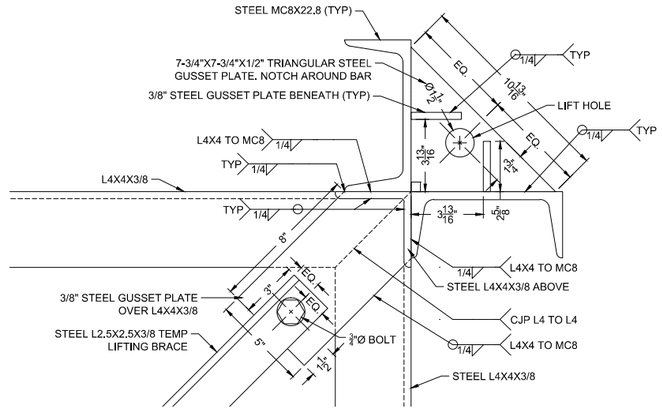



## TOP CORNER PLAN DETAIL

D12 / S-07

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'

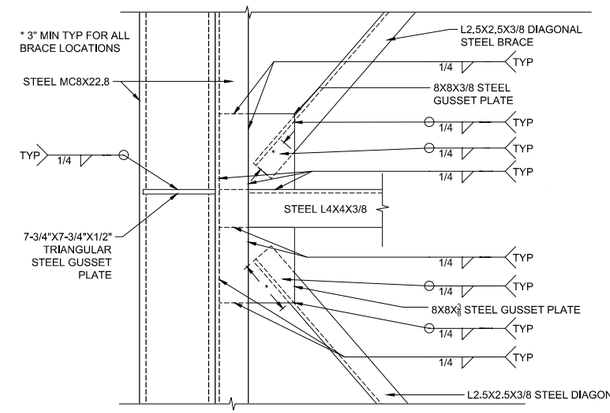



## CORNER DETAIL AT LIFT HOLE

D13 / S-07

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'

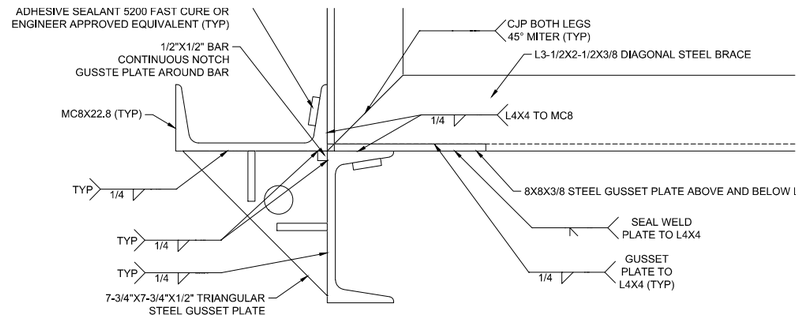



## MID-SECTION DETAIL

D07 / S-06

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

0 1/2" 1'

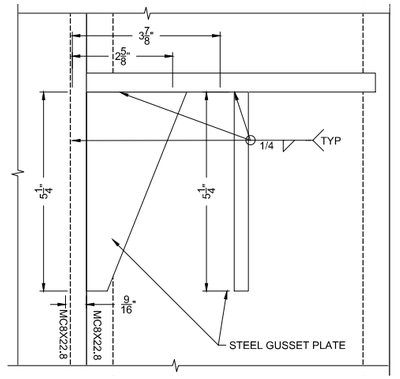



## MID-SECTION PLAN DETAIL

D11 / S-07

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'




## GUSSET PLATE DETAIL

D14 / S-08

22X34: 6" = 1'
11X17: 3" = 1'

0 2' 3'

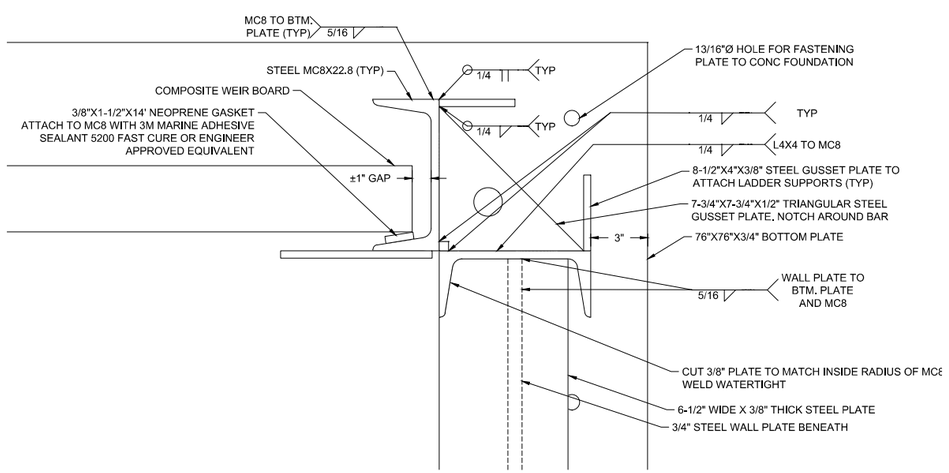



## BOTTOM CORNER DETAIL

D08 / S-06

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

0 1/2" 1'

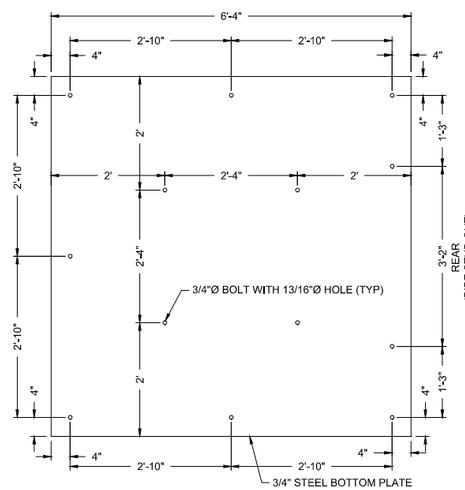



## BOTTOM CORNER PLAN DETAIL

D09 / S-07

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'




## WEIR PLATE & BOLT PLAN

D10 / S-04

22X34: 3/4" = 1'
11X17: 3/8" = 1'

0 1' 2'

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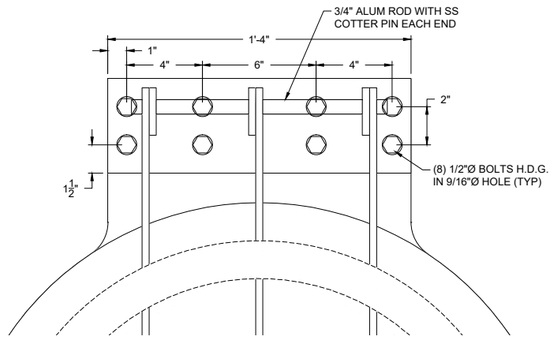
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STEEL WEIR DETAILS

S-08

SHEET 35 OF 37

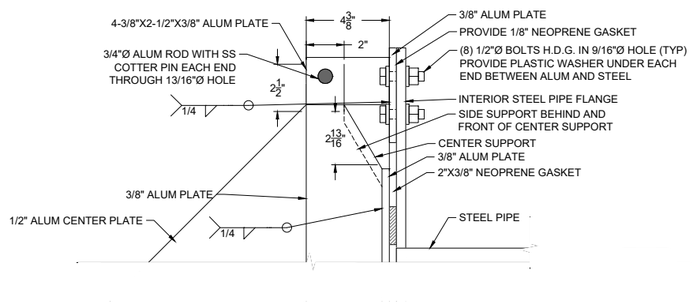



D16 S-09

## FLAP GATE HINGE MOUNT DETAIL

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'

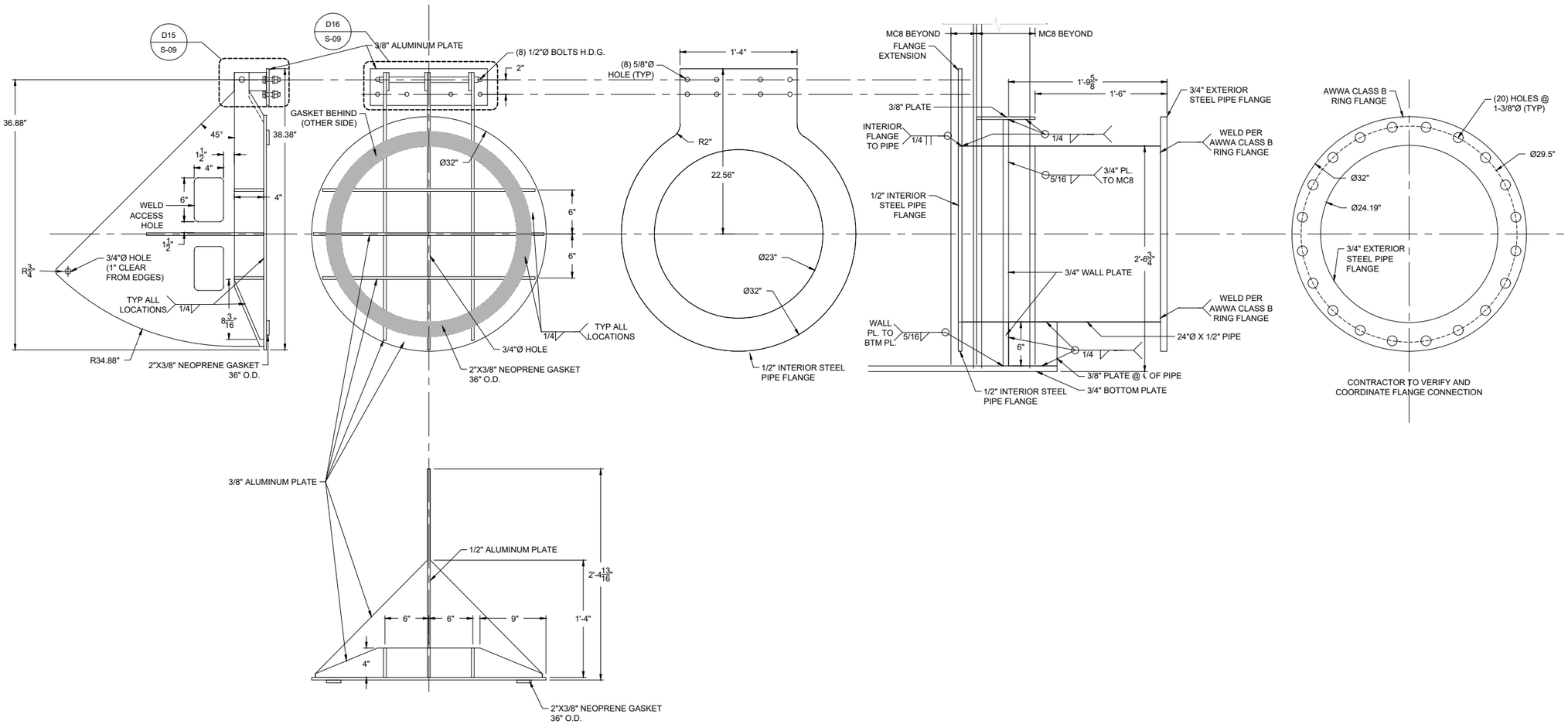



D15 S-09

## FLAP GATE HINGE MOUNT DETAIL SECTION

22X34: 3" = 1'
11X17: 1 1/2" = 1'

0 3' 6'




## FLANGE AND FLAP GATE DETAILS

22X34: 1 1/2" = 1'
11X17: 3/4" = 1'

0 1/2' 1'


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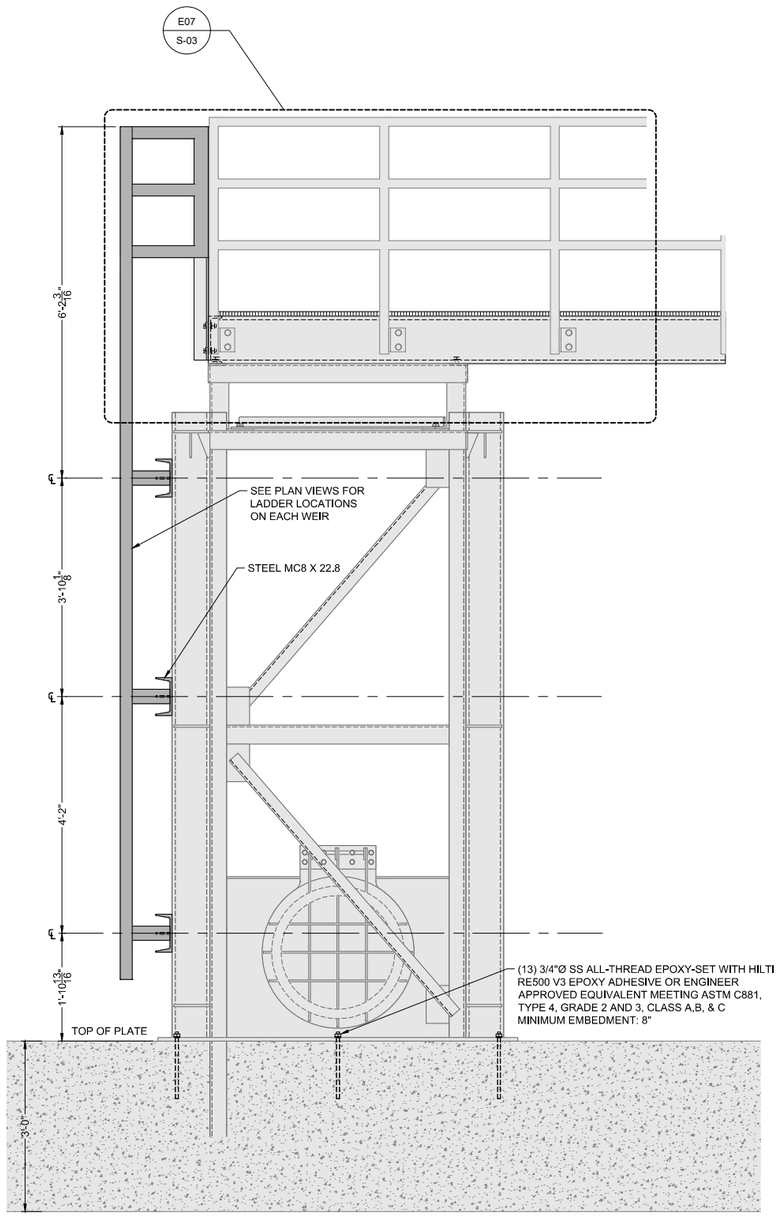
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STEEL WEIR AND ALUMINUM FLAP GATE DETAILS

S-09

SHEET 36 OF 37

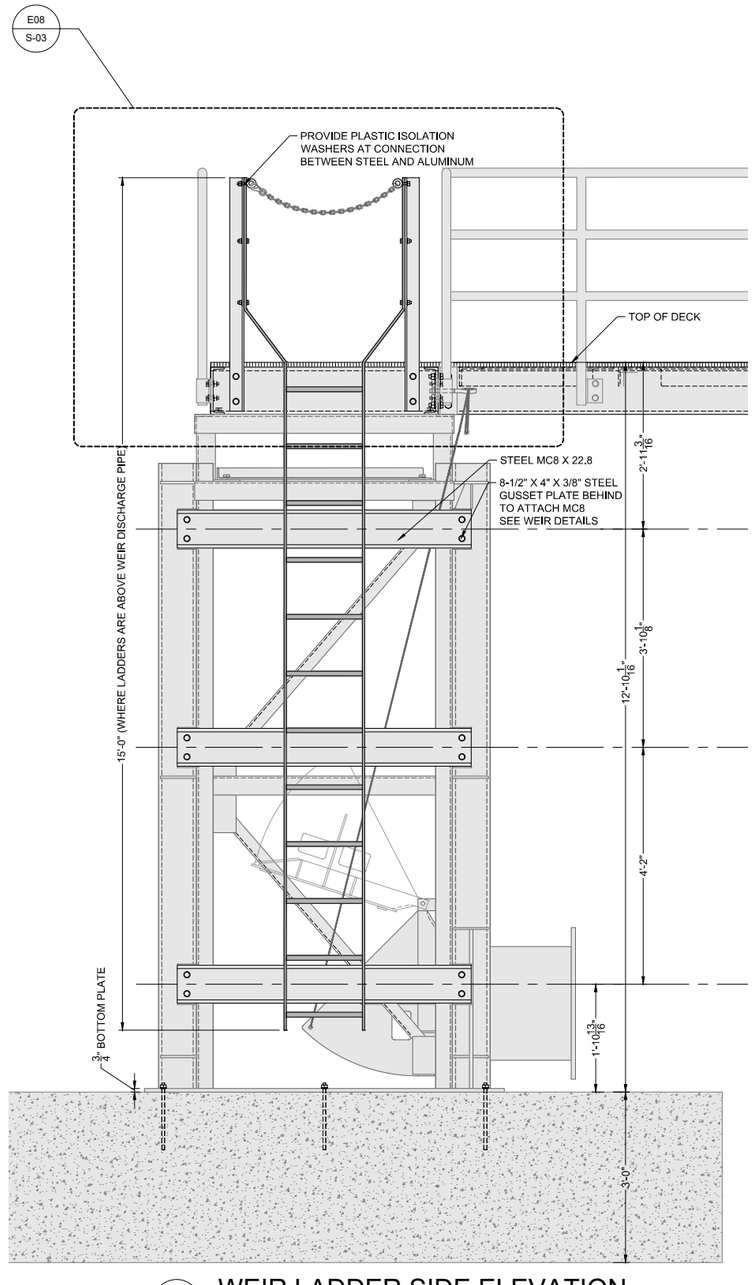
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E04 S-01 **WEIR LADDER FRONT ELEVATION**

22X34: 3/4" = 1'
11X17: 3/8" = 1'

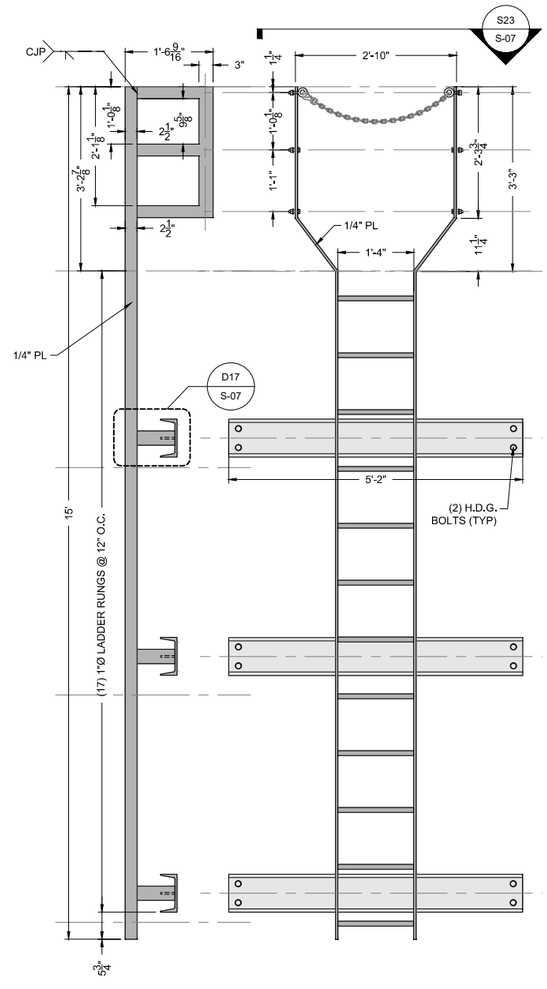
0 1/4' 1/2'




E05 S-01 **WEIR LADDER SIDE ELEVATION**

22X34: 3/4" = 1'
11X17: 3/8" = 1'

0 1/4' 1/2'




NOTE: SEE PLAN VIEW FOR NUMBER OF LADDERS REQUIRED.

**WEIR LADDER TYPICAL FRONT AND SIDE VIEW**

22X34: 3/4" = 1'
11X17: 3/8" = 1'

0 1/4' 1/2'


TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084


PROJECT TITLE

F.I.N.D. M-8 DREDGED MATERIAL MANAGEMENT AREA CONSTRUCTION DRAWINGS
ST. LUCIE COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811 BEFORE YOU DIG
1-800-638-4097

| NO | ZONE | REVISIONS / SUBMISSIONS | DATE |
|---|---|---|---|

| | |
|---|---|
| PROJECT NO | C2016-053 |
| DATE | APRIL 2018 |
| DESIGNED | RD |
| DRAWN | RLJ |
| CHECKED | AF |
| REVIEWED | KAK/WA |
| SCALE | AS SHOWN |

DRAWING TITLE

STEEL WEIR LADDER DETAILS

S-10

SHEET 37 OF 37

REBECCA JOHNSON, 4/4/2018 12:07:31 PM, X:\sys\Projects\C2016-053 FIND DMMA M-8\Construction\Weir Details 8.dwg