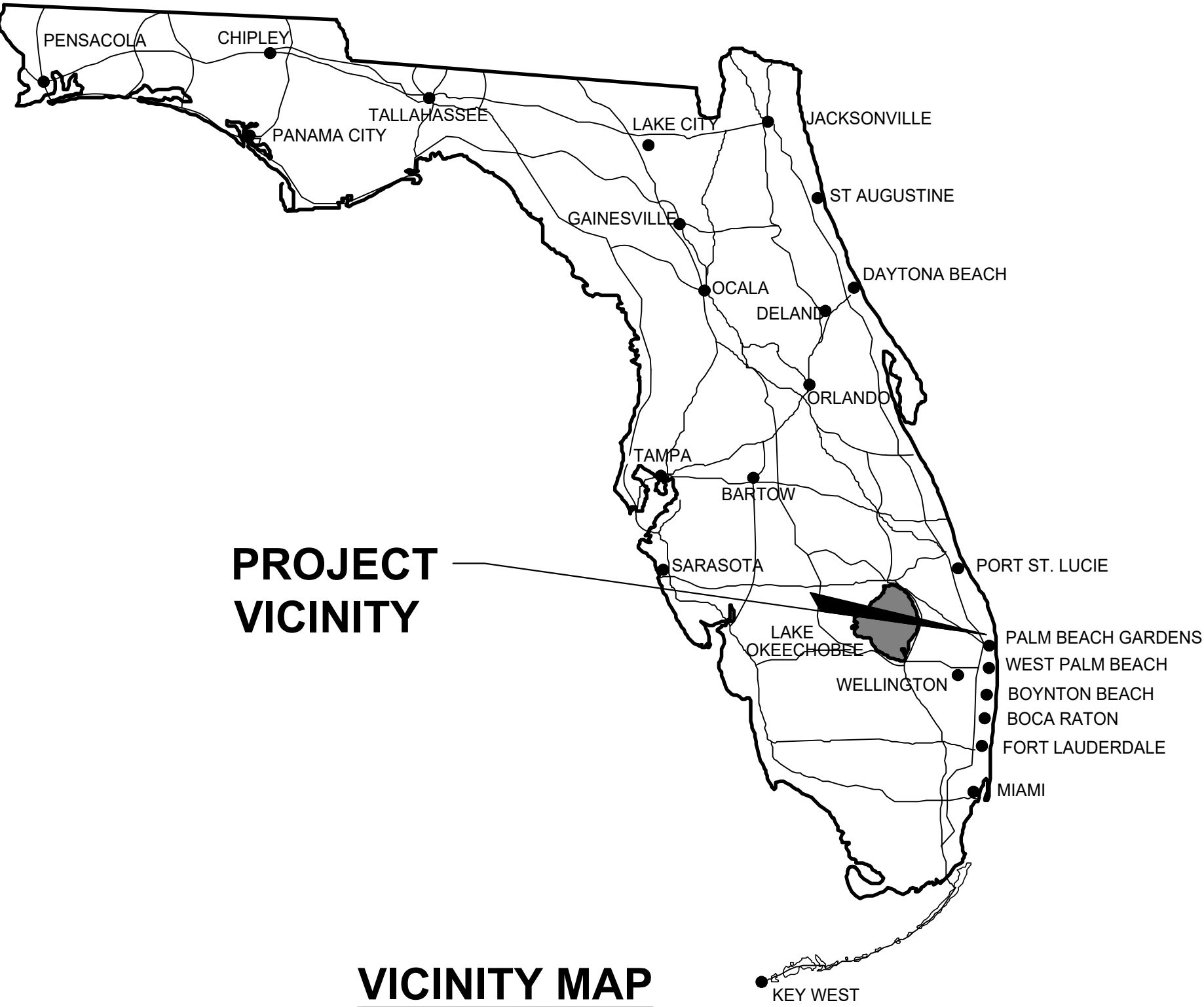


DRAINAGE IMPROVEMENT PLANS FOR UNIVERSE BOULEVARD

**SECTION 33, TOWNSHIP 41S., RANGE 43E.
TOWN OF JUNO BEACH, FLORIDA**



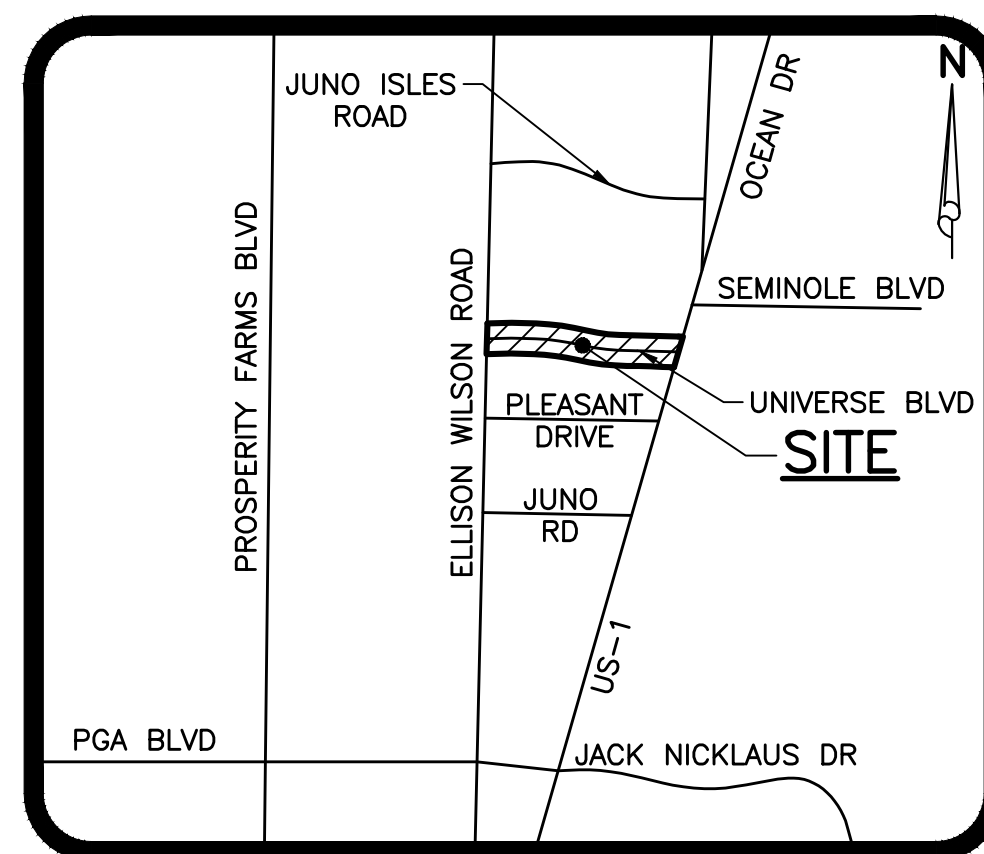
INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
1	TITLE SHEET
2	MASTER PLAN
3-4	DRAINAGE IMPROVEMENT PLANS
5	DRAINAGE IMPROVEMENT DETAILS
6	POLLUTION PREVENTION PLAN

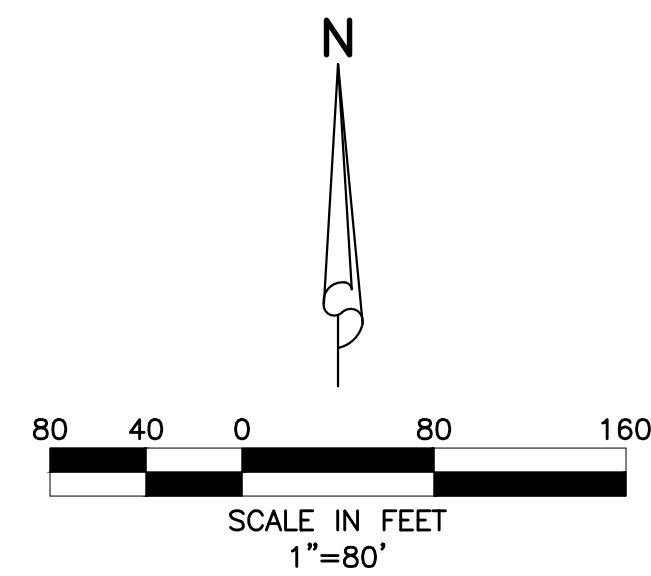
4/7/2023

BID SET

<p>ENGINEERING PLANNING CONSULTING SINCE 1982 2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848</p>		UNIVERSE BOULEVARD DRAINAGE IMPROVEMENT PLANS SECTION 33, TOWNSHIP 41S., RANGE 43E. TOWN OF JUNO BEACH, FLORIDA TITLE SHEET	
		DESIGN P.B. DRAWN C.O. CHECKED APPROVED DATE	JOB NO. 16-004.8 DRAWING NO. 16004.8S01 SHEET 1 OF 6



LOCATION MAP
NOT TO SCALE



4/7/2023
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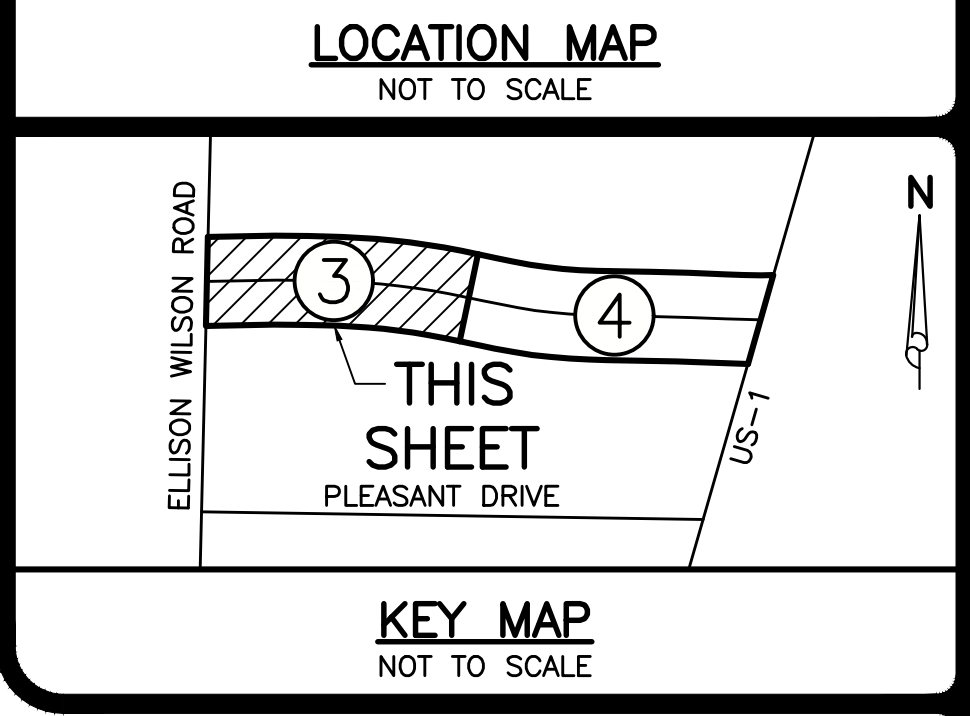
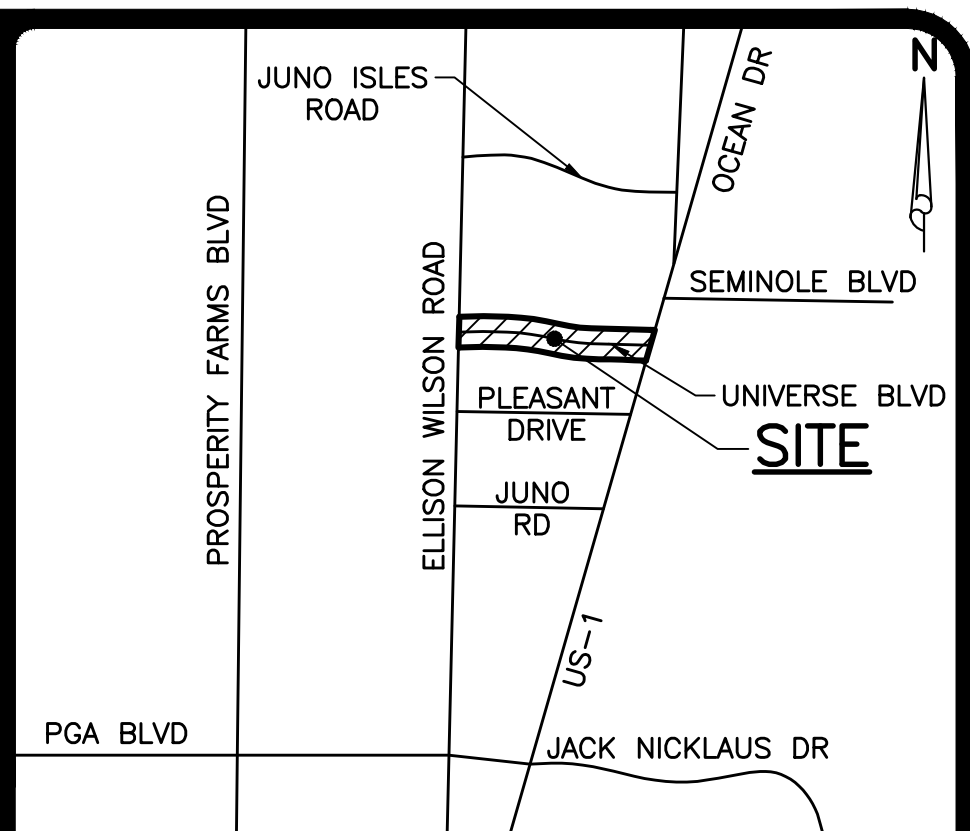
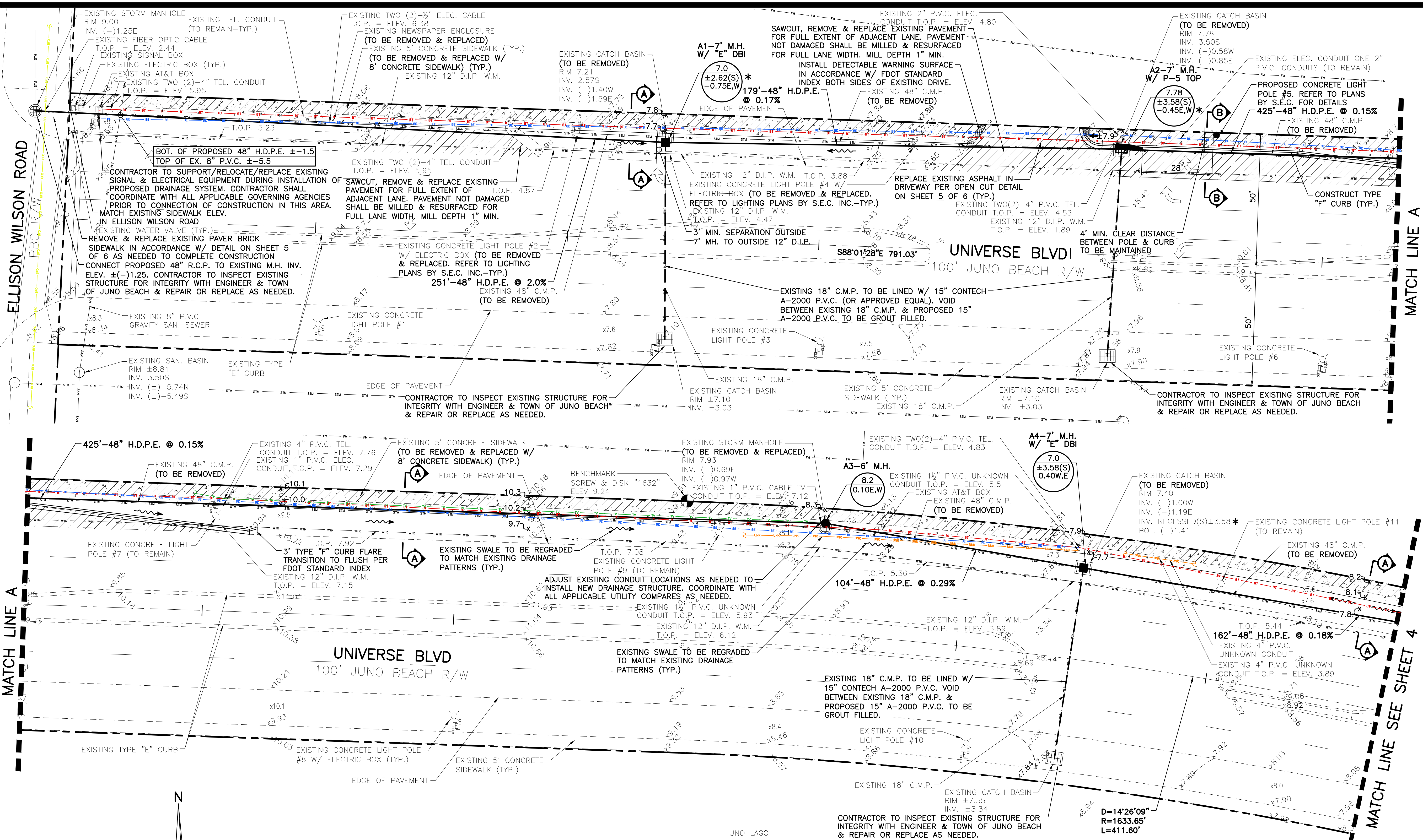
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**UNIVERSE BOULEVARD DRAINAGE
IMPROVEMENT PLANS**
SECTION 33, TOWNSHIP 41S., RANGE 43E.
TOWN OF JUNO BEACH, FLORIDA
MASTER PLAN

REVISIONS		DESIGN	DRAWN	CHECKED	APPROVED	DATE	JOB NO.	DRAWING NO.	SHEET	OF
		P.B.	C.O.				16-004.8	16-004.8S02	2	6



LEGEND

- A1-"E" INLET NUMBER AND TYPE
- 7.21 INLET TOP ELEVATION
- 2.57 INVERT ELEVATION
- PROPOSED STORM SEWER AND CATCH BASIN
- PROPOSED STORM SEWER AND MANHOLE
- PROPOSED LINING OF EXISTING STORMDRAIN PIPE
- DIRECTION OF FLOW
- DIRECTION OF SWALE
- PROPOSED GRADE ELEVATION
- EXISTING GRADE ELEVATION
- CONCRETE
- DETECTABLE WARNING SURFACE
- SAWCUT, REMOVE, & REPLACE EXISTING PAVEMENT, CONCRETE, CURB, ETC.
- EXISTING CONCRETE SIDEWALK TO BE REMOVED & REPLACED AS NEEDED
- PROPOSED LIGHT POLE (REFER TO PLANS BY S.E.C. FOR DETAILS)
- EXISTING OVERHEAD POWER LINE & POWER POLE
- EXISTING STORM DRAINAGE PIPE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING FORCE MAIN
- EXISTING ELECTRIC
- EXISTING TELEPHONE
- EXISTING TELEVISION
- EXISTING UNKNOWN
- EXISTING FIBER OPTICS
- EXISTING LIGHT POLE

* CONTRACTOR SHALL FIELD VERIFY INVERT & CONFIRM ELEVATION WITH ENGINEER PRIOR TO SHOP DRAWING APPROVAL
4/7/2023

BID SET

NOTES:

- 1.) CONTRACTOR SHALL COORDINATE RELOCATION/ REMOVAL SUPPORT OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES, POWER/UTILITY/LIGHT POLES AND GUY WIRES, SERVICES AND TRANSFORMERS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS WITH APPLICABLE UTILITY COMPANIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
- 2.) CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES IN AND ADJACENT TO THE ROAD RIGHT OF WAY PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL EXISTING DRAINAGE IMPROVEMENTS AND THE DISPOSAL THEREOF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AT THE CONTRACTORS EXPENSE. JOB SITE SHALL BE LEFT IN A CLEAN AND PRESENTABLE CONDITION AT THE END OF EVERY DAY.
- 4.) CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FEES FOR ENVIRONMENTAL SURVEYS AND/OR ASSESSMENTS, AS MAY BE REQUIRED FOR DEMOLITION AND OBTAINING ANY AND ALL PERMITS REQUIRED FROM THE ISSUING GOVERNING AGENCIES.
- 5.) CONTRACTOR SHALL TURN OFF OR HAVE CAPPED OFF ALL UTILITIES IN ALL AREAS TO BE DEMOLISHED WHETHER SHOWN OR NOT.
- 6.) ANY DAMAGE TO EXISTING PROPERTY OF ANY KIND ATTRIBUTED TO THIS CONTRACTOR'S WORK SHALL BE QUICKLY AND PROPERLY REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AND TOWN OF JUNO BEACH.
- 7.) CONTRACTOR SHALL FIELD VERIFY ADDITIONAL SITE RELATED DEMOLITION AND NOTIFY ENGINEER OF ANY CONFLICTS OR CHANGES IN SCOPE.
- 8.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.
- 9.) CONSTRUCTION/DEMOLITION WITHIN P.B.C. RIGHT OF WAY SHALL NOT COMMENCE WITHOUT PERMITS BEING ISSUED, CONSTRUCTION COMMENCEMENT NOTICES AND PRE-CONSTRUCTION MEETING HELD.
- 10.) CONTRACTOR SHALL PROVIDE MEANS TO ADEQUATELY STORE AND PROPERLY TREAT AND DISPOSE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE DURING DEMOLITION OF EXISTING FACILITIES.
- 11.) ALL ELEVATIONS SHOWN REFERENCE N.G.V.D. 1929.
- 12.) PAVEMENT MARKINGS & SIGNAGE SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. FOR STREETS & HIGHWAYS, LATEST EDITION AND TOWN OF JUNO BEACH STANDARDS.
- 13.) CROSS SLOPE ON ALL SIDEWALKS & A.D.A. ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0% AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 5.0%. RAMPS AS INDICATED SHALL NOT EXCEED 6' IN LENGTH & 12:1 SLOPE. ALL REPLACED SIDEWALK SHALL BE INSTALLED AT PREVIOUS EXISTING GRADE AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE A.D.A. REQUIREMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS.
- 14.) CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS DISTURBED DURING CONSTRUCTION TO EXISTING OR BETTER CONDITION.
- 15.) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL N.P.D.E.S. REQUIREMENTS AND OBTAINING ALL PERMITS INCLUDING FILING OF N.O.I., N.O.T., WEEKLY & MONTHLY MONITORING REPORTS, ETC.
- 16.) EXISTING DRAINAGE SYSTEM TO BE COMPLETELY REMOVED AND REPLACED UNLESS OTHERWISE NOTED.
- 17.) CONTRACTOR SHALL ADJUST ALL AFFECTED WATER MAIN & FORCE MAIN VALVE BOX HEIGHTS & INSTALL NEW CONCRETE COLLARS IN ACCORDANCE WITH S.U.A. STANDARDS AS NECESSARY.
- 18.) ALL SWALE & RIGHT OF WAY AREAS SHALL BE REGRADED TOWARD PROPOSED CATCH BASINS. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS.
- 19.) CONTRACTOR SHALL ADJUST THE LOCATION OF EXISTING "DRY" UTILITIES & CONDUIT AS NEEDED TO COMPLETE WORK AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING RELOCATIONS & REDESIGN WITH APPLICABLE UTILITY COMPANIES.
- 20.) ALL DRAINAGE STRUCTURES COLLECTING SURFACE RUNOFF SHALL HAVE 3" DIAMETER BLEEDER HOLES WITH INVERTS 6" BELOW GRATE ELEVATIONS ON EAST & WEST SIDES OF STRUCTURES, INLINE WITH SWALE FLOW DIRECTION.

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929 BASED ON A SURVEY PREPARED BY LIDBERG LAND SURVEYING, INC. (561) 746-8454

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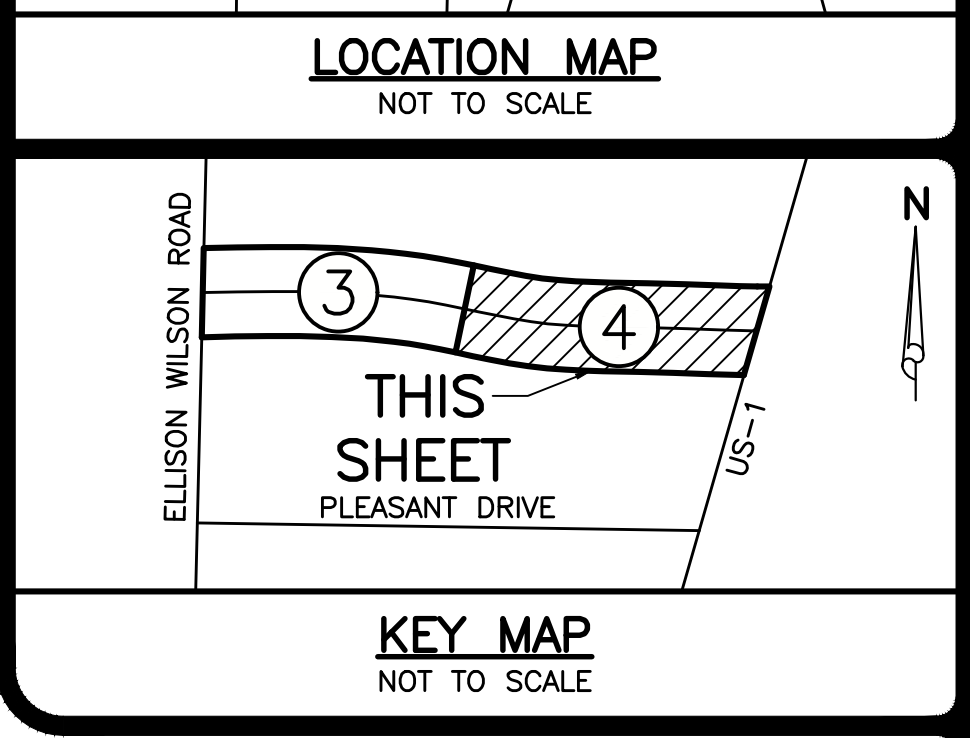
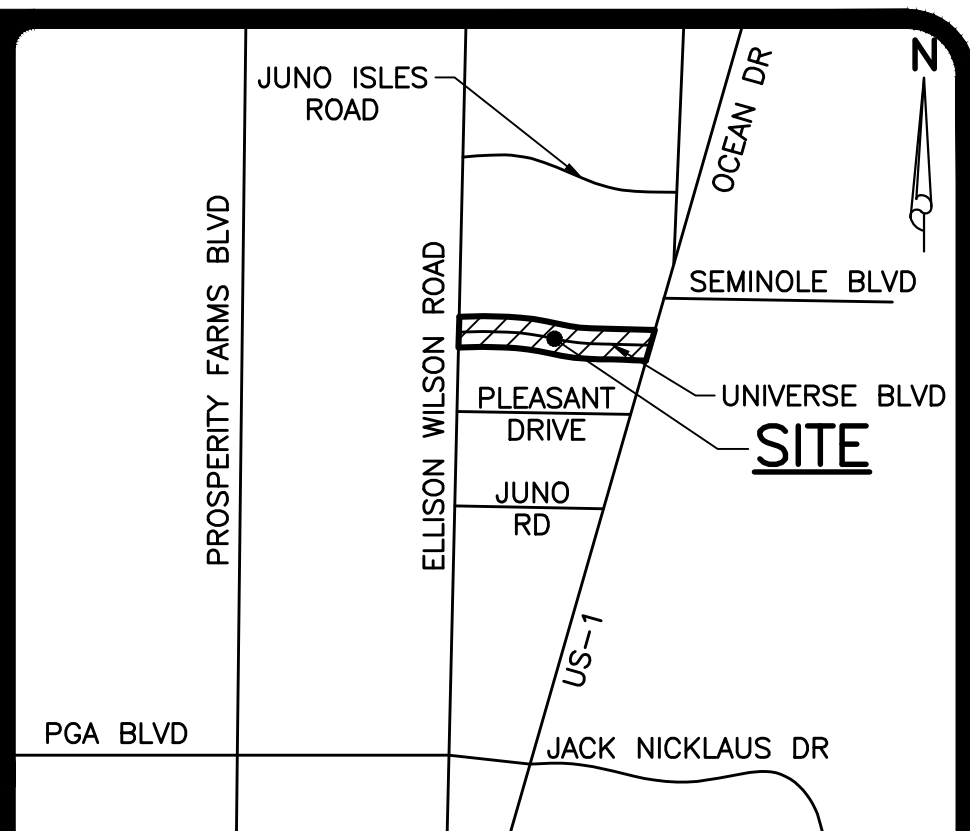
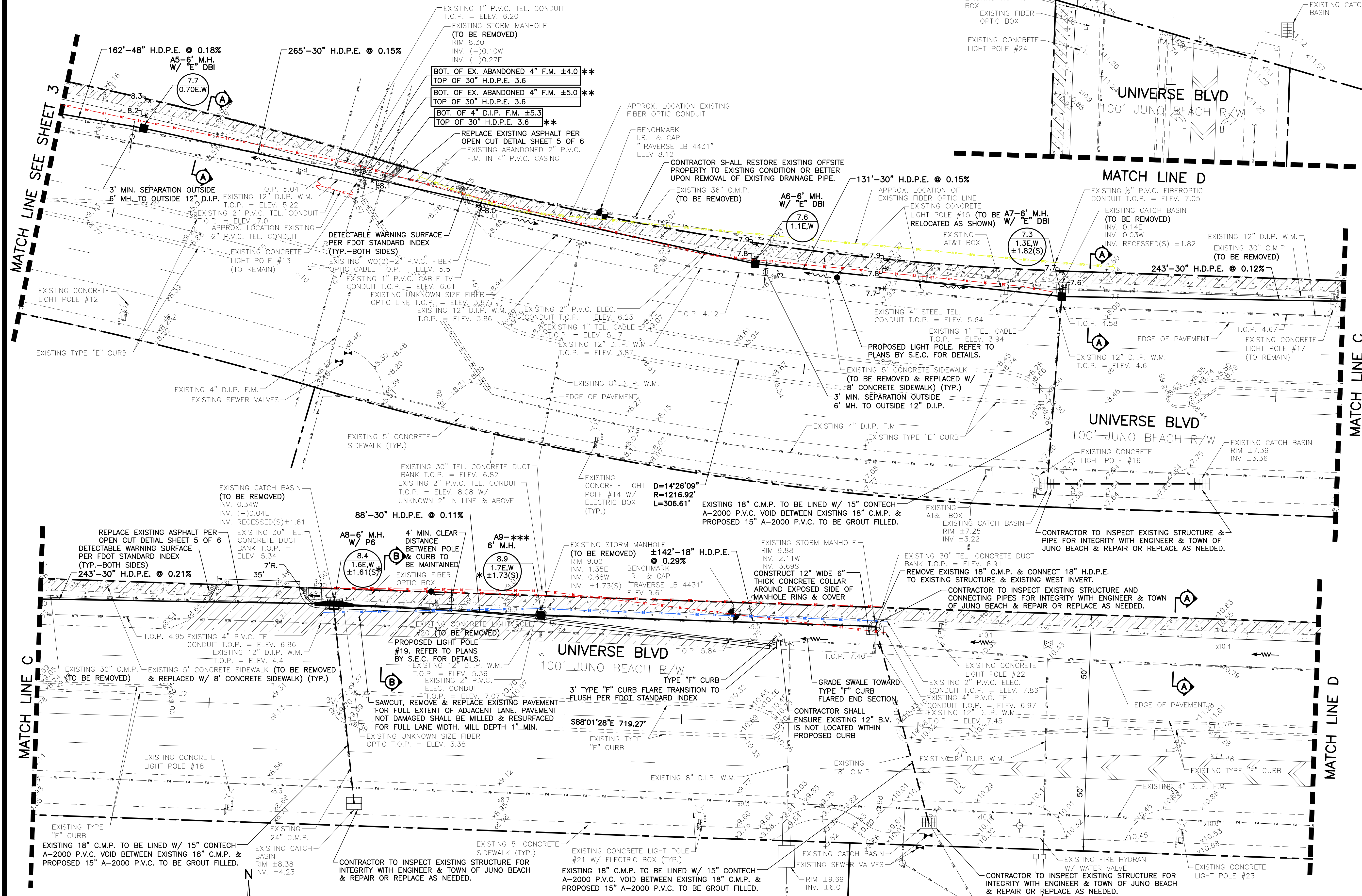
1.) REVISED PER LIGHTING PLANS & TOWN OF JUNO BEACH COORDINATION, 02/14/23 C.O.

DESIGN	DRAWN	CHECKED	APPROVED	DATE
P.B.	C.O.			

JOB NO.	DRAWING NO.	SHEET	OF
16-004.8	16004.8S03	3	6

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929 BASED ON A SURVEY PREPARED BY LIDBERG LAND SURVEYING, INC. (561) 746-8454

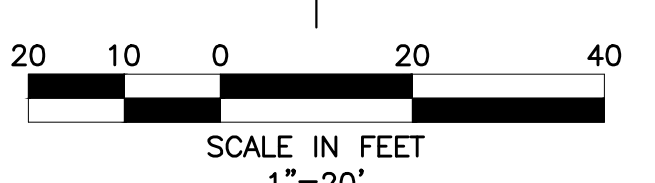
*** MANHOLE LID SHALL NOT BE LOCATED WITHIN CURB
 ** CONTRACTOR SHALL FIELD VERIFY LOCATION ELEVATION OF EXISTING
 * CONTRACTOR SHALL FIELD VERIFY INVERT & CONFIRM ELEVATION WITH ENGINEER PRIOR TO SHOP DRAWING APPROVAL



LEGEND

A1-E	INLET NUMBER AND TYPE
7.21 2.57	INLET TOP ELEVATION INVERT ELEVATION
[Symbol]	PROPOSED STORM SEWER AND CATCH BASIN
[Symbol]	PROPOSED STORM SEWER AND MANHOLE
[Symbol]	PROPOSED LINING OF EXISTING STORM DRAIN PIPE
[Symbol]	DIRECTION OF FLOW
[Symbol]	DIRECTION OF SWALE
[Symbol]	PROPOSED GRADE ELEVATION
[Symbol]	EXISTING GRADE ELEVATION
[Symbol]	CONCRETE
[Symbol]	DETECTABLE WARNING SURFACE
[Symbol]	SAWCUT, REMOVE, & REPLACE EXISTING PAVEMENT, CONCRETE, CURB, ETC.
[Symbol]	EXISTING CONCRETE SIDEWALK TO BE REMOVE & REPLACED AS NEEDED
[Symbol]	PROPOSED LIGHT POLE (REFER TO PLANS BY S.E.C. FOR DETAILS)
[Symbol]	EXISTING OVERHEAD POWER LINE & POWER POLE
[Symbol]	EXISTING STORM DRAINAGE PIPE
[Symbol]	EXISTING WATER MAIN
[Symbol]	EXISTING SEWER MAIN
[Symbol]	EXISTING FORCE MAIN
[Symbol]	EXISTING ELECTRIC
[Symbol]	EXISTING TELEPHONE
[Symbol]	EXISTING TELEVISION
[Symbol]	EXISTING UNKNOWN
[Symbol]	EXISTING FIBER OPTICS
[Symbol]	EXISTING LIGHT POLE

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- 2.) REVISED LIGHT POLE #15 NOTE PER TOWN & LIGHTING CONSULTANT, 04/07/23 C.O.
 1.) REVISED PER LIGHTING PLANS & TOWN OF JUNO BEACH COORDINATION, 02/14/23 C.O.

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UNIVERSE BOULEVARD DRAINAGE IMPROVEMENT PLANS
 SECTION 33, TOWNSHIP 41S., RANGE 43E.
 TOWN OF JUNO BEACH, FLORIDA
 DRAINAGE IMPROVEMENT PLAN

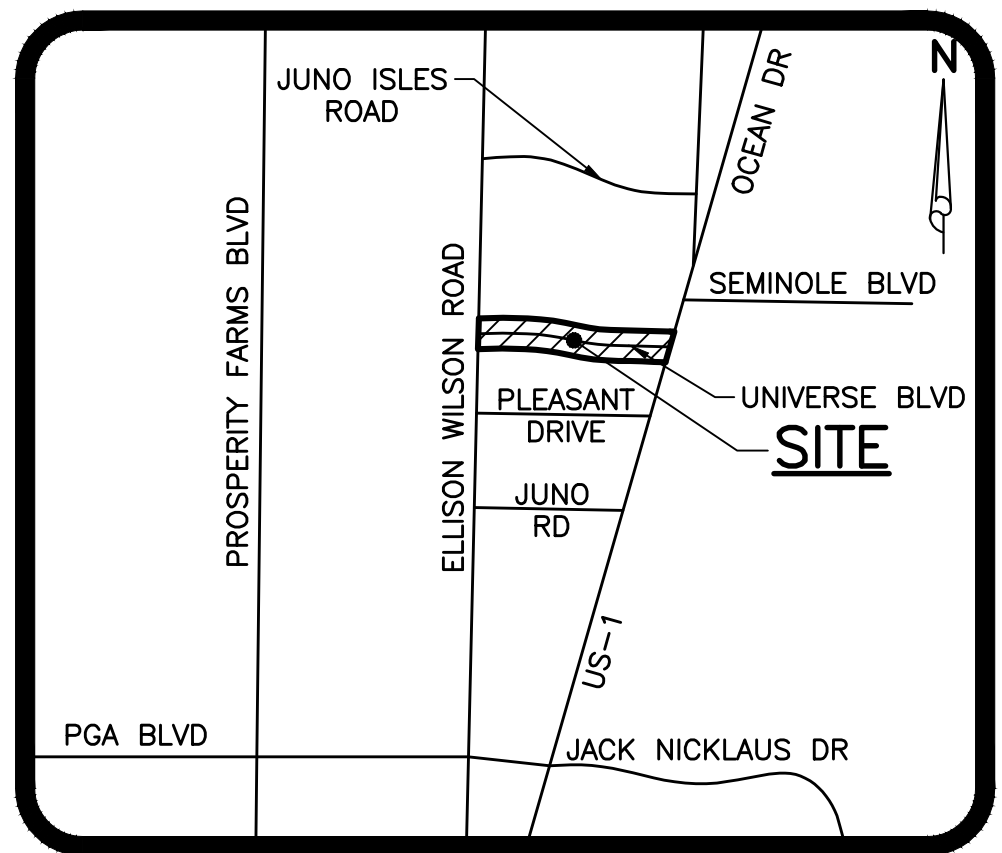
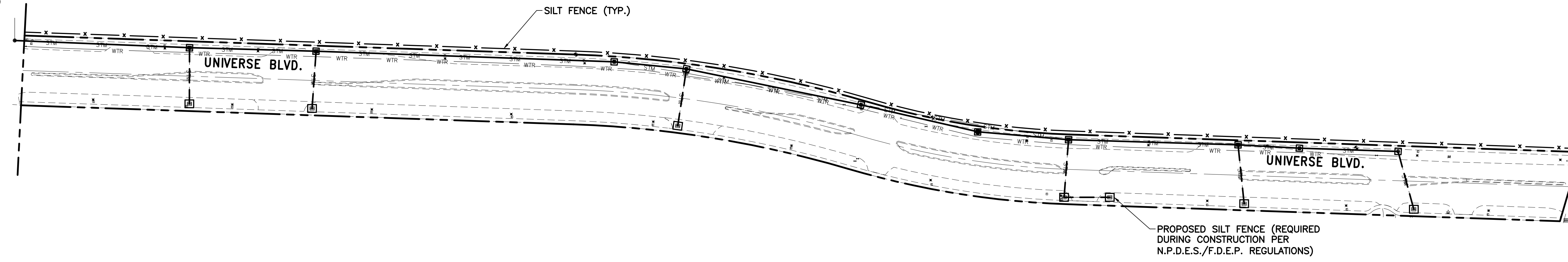
DESIGN P.B.	DRAWN C.O.	CHECKED	APPROVED	DATE
JOB NO. 16-004.8	DRAWING NO. 16004.8504	SHEET 4	OF 6	

4/7/2023
BID SET

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ELLISON WILSON ROAD

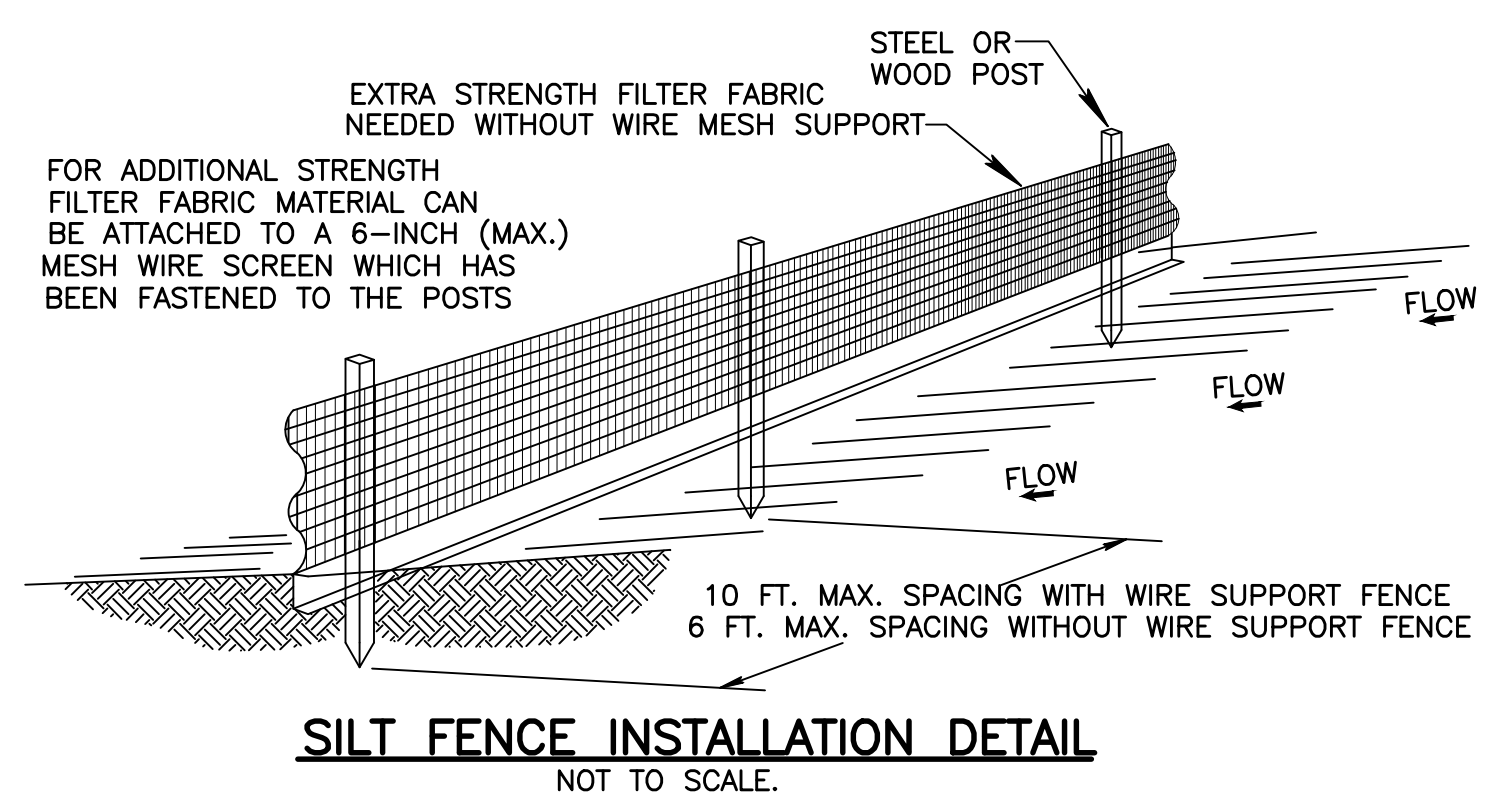
U.S. HIGHWAY NO. 1



LOCATION MAP
NOT TO SCALE

NOTES:

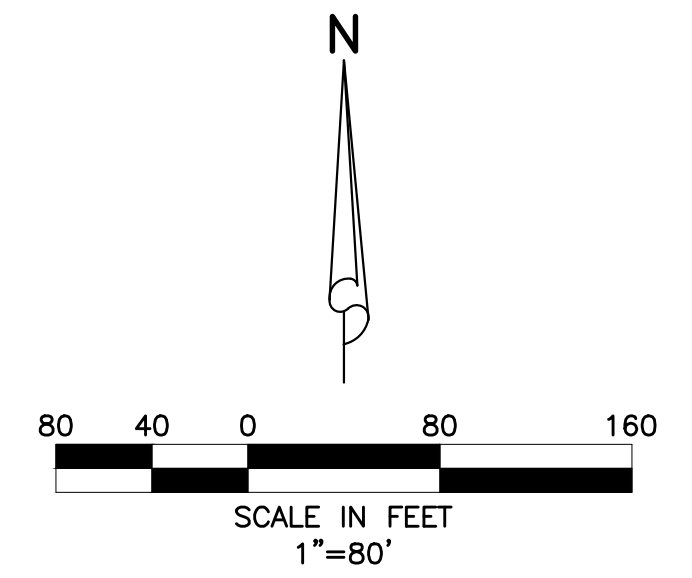
- 1.) THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
- 2.) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
- 3.) POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
- 4.) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- 5.) WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- 6.) THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- 7.) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.



SILT FENCE INSTALLATION DETAIL
NOT TO SCALE

POLLUTION PREVENTION NOTES:

- 1.) THIS PLAN SHOULD BE USED AS A GUIDE. A COMPLETE STORMWATER POLLUTION PLAN SHOULD BE DEVELOPED TO MEET OR EXCEED F.D.E.P. REQUIREMENTS.
- 2.) CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO DIRT BE TRACKED OFF-SITE OR LEAVES THE SITE BY WIND, RUNOFF, OR OTHER MEANS.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL N.P.D.E.S. REQUIREMENTS INCLUDING FILING OF N.O.I., MONITORING REPORTS AND N.O.T.
- 4.) POLLUTION PREVENTION MEASURES SHALL CONSIST OF, BUT NOT LIMITED TO, THE FOLLOWING:
 - A. CONSTRUCT WASHROCK PAD AT ALL POINTS EGRESS FOR WASHDOWN OF TRUCK TIRES.
 - B. CONSTRUCT EROSION CONTROL FENCE AND/OR TURBIDITY SCREENS ALONG PROPERTY LINES AS NEEDED.
 - C. NO AREA SHALL BE LEFT BARREN OR SUBJECT TO EROSION DURING CONSTRUCTION. SEEDING AND MULCHING IS REQUIRED FOR ANY AREAS ANTICIPATED TO BE BARREN DURING CONSTRUCTION FOR MORE THAN 15 DAYS.
 - D. TURBIDITY BARRIERS TO BE UTILIZED AT PROJECT OUTFALL.
 - E. OTHER MEASURES AS DIRECTED BY THE ENGINEER OR TOWN OF JUNO BEACH.
- 5.) IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL POLLUTION PREVENTION REQUIREMENTS. FOR AFFECTED AREAS GREATER THAN 1 ACRE, COMPLIANCE SHALL INCLUDE (BUT IS NOT LIMITED TO) THE FOLLOWING:
 - A. PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) IN ACCORDANCE WITH THE D.E.P. "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" (D.E.P. DOCUMENT NO. 62-621.300(4)(A))
 - B. SUBMITTAL OF THE NOTICE OF INTENT (N.O.I.) TO THE D.E.P.
 - C. MAINTENANCE AND INSPECTION OF THE ELEMENTS OF THE S.W.P.P.P.
 - D. MAINTENANCE OF RECORDS (INSPECTION REPORTS, N.O.I, S.W.P.P.P., ETC.)
 - E. SUBMITTAL OF THE NOTICE OF TERMINATION TO THE D.E.P. AT THE CONCLUSION OF THE PROJECT



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					DESIGN P.B.	DRAWN C.O.	CHECKED	APPROVED