

SHELL POINT PLACE DEFINITIVE SUBDIVISION

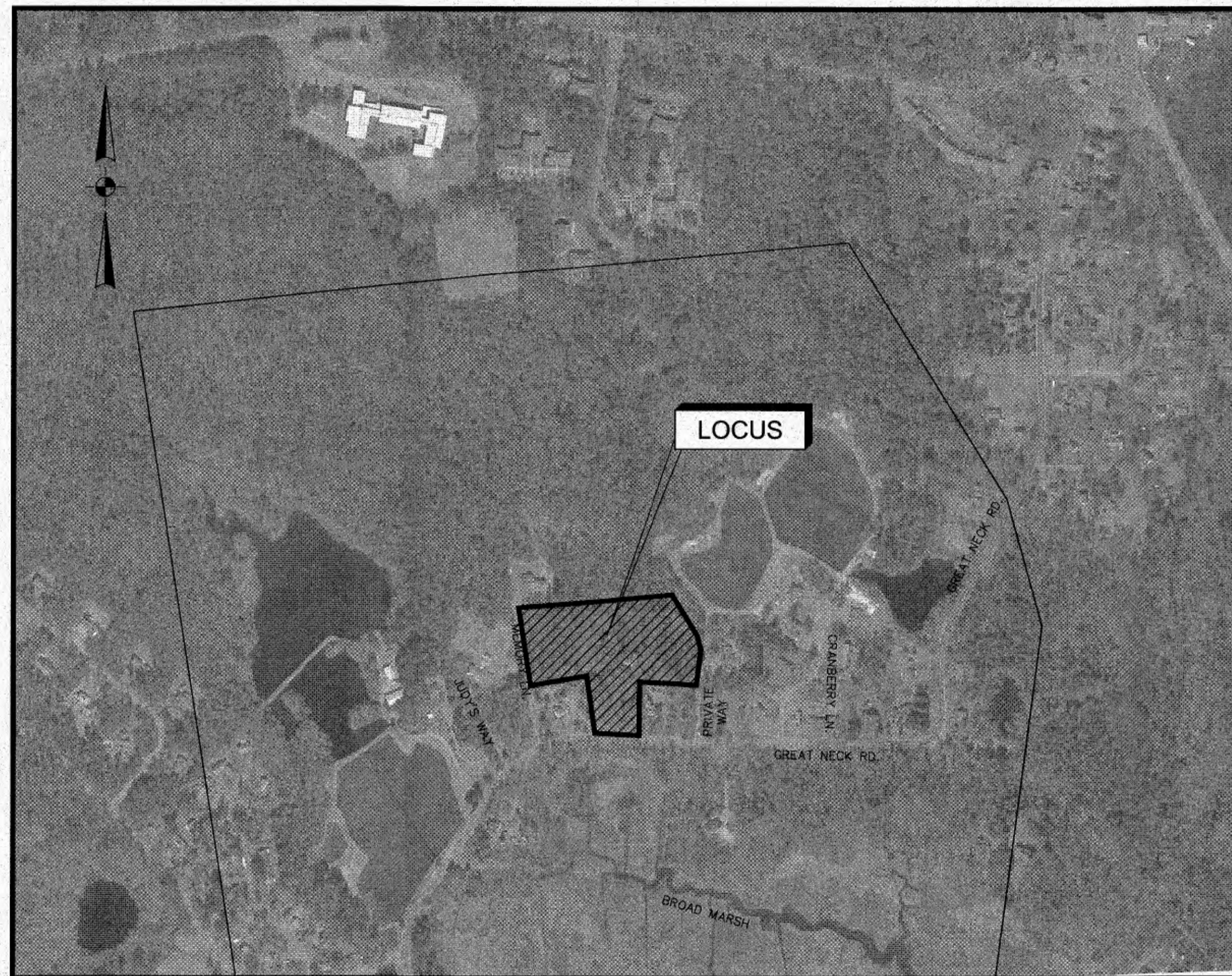
SITE DRAWINGS

ISSUED FOR: PERMITTING
DATE ISSUED: OCTOBER 7, 2021
LATEST ISSUE: FEBRUARY 2, 2022

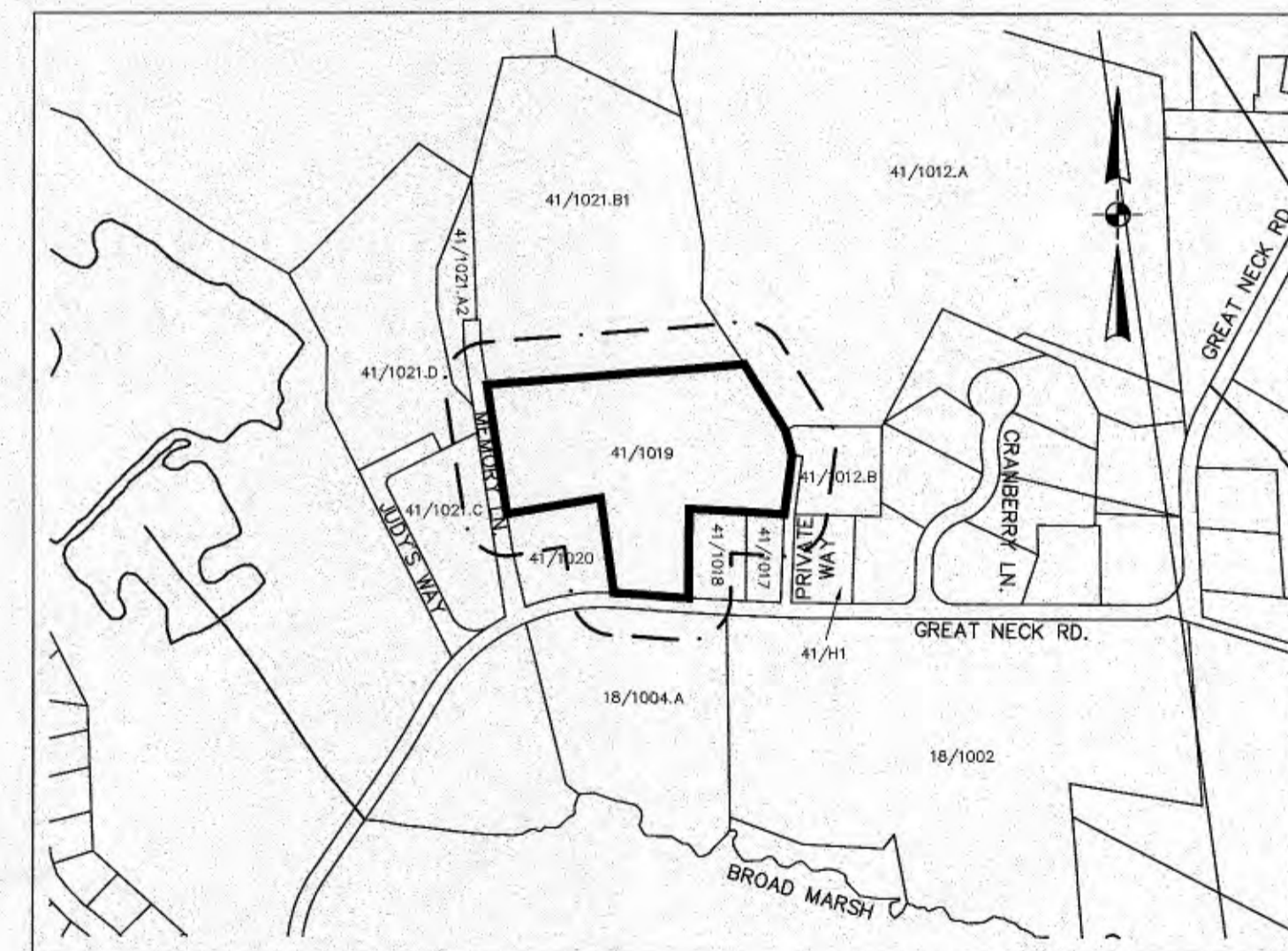
69 GREAT NECK ROAD
WAREHAM, MASSACHUSETTS

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SCALE: 1"=400'



LOCUS PLAN
SCALE: 1"=400'

--- 100' NOTIFICATION LINE
— PROJECT SITE

LOT NO.	OWNER OF RECORD
18/1002	PERCHED, INC.
18/1004.A	PERCHED, INC.
41/H1	JOYCE J. HOLSTER
41/1012.A	POPES POND CRANBERRY CO. INC.
41/1012.B	SUSAN M. NELSON
41/1017	JOYCE L. LEBLANC
41/1018	JOYCE L. LEBLANC
41/1020	RAYMOND E. & LYNELLE A. ST JACQUES
41/1021.A2	PATTI H. SILVA
41/1021.B1	PATTI H. SILVA
41/1021.C	JUDITH C. JINSON
41/1021.D	JUDITH C. JINSON

WAREHAM PLANNING BOARD
APPROVAL UNDER SUBDIVISION
CONTROL LAW IS REQUIRED

DATE APPROVED: _____

DATE ENDORSED: _____

I HEREBY CERTIFY THAT 20 DAYS HAVE ELAPSED
SINCE THE NOTICE OF APPROVAL FROM THE
PLANNING BOARD WAS RECEIVED AND RECORDED
AND NO NOTICE OF APPEAL HAS BEEN FILED IN
THIS OFFICE.

TOWN CLERK, WAREHAM, MA DATE

ENGINEER:

FIELD ENGINEERING CO., INC.
11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPOISETT, MA 02739

OWNER/APPLICANT:

DAVID ANDRADE
P.O. BOX 255
19 OLD ONSET ROAD
ONSET, MA 02558

PROJECT LOCATION:

ASSESSORS MAP 41 LOT 1019
WAREHAM, MASSACHUSETTS

SHELL POINT PLACE
DEFINITIVE
SUBDIVISION

69 GREAT NECK ROAD
WAREHAM, MA

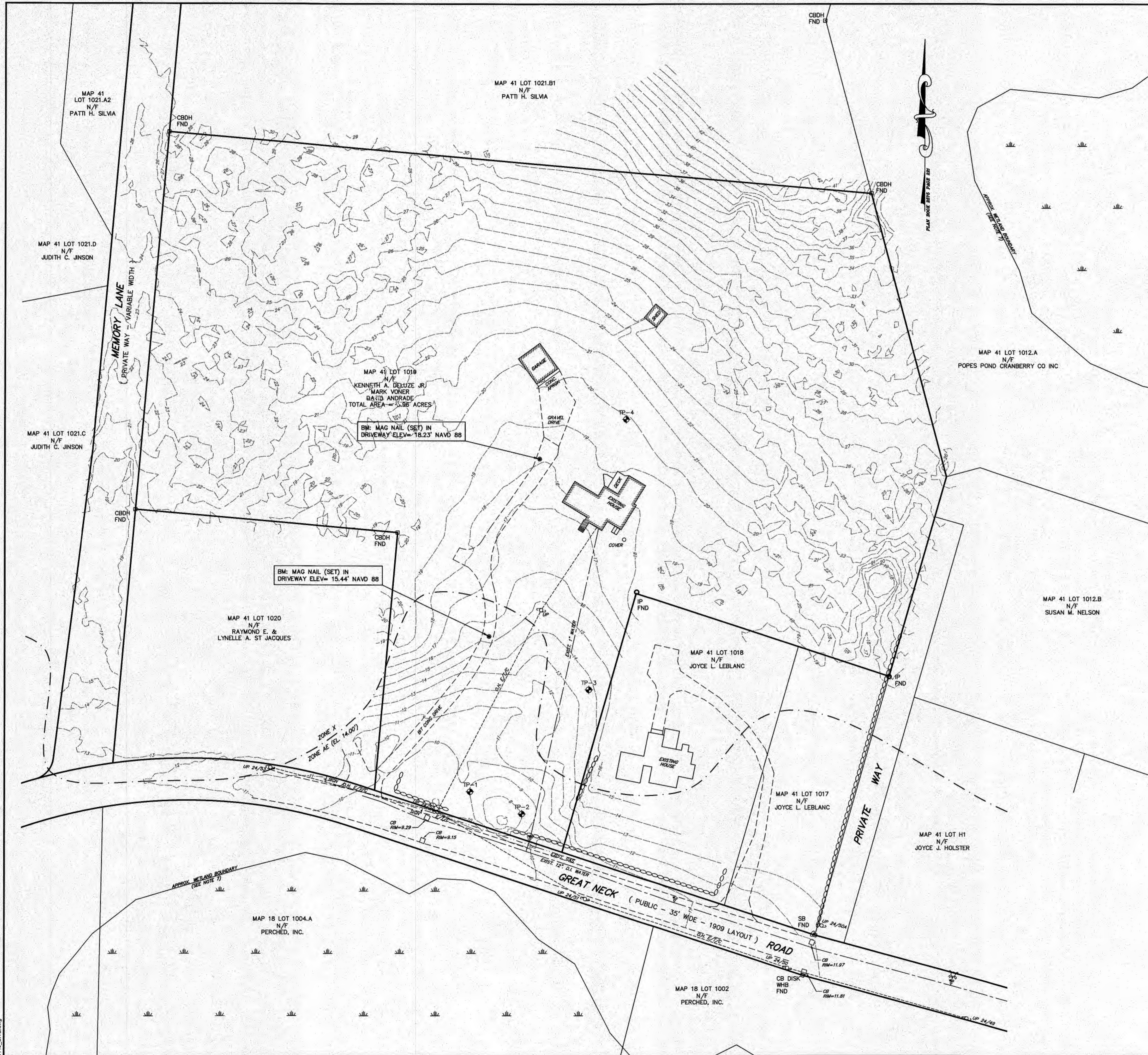


**FIELD
ENGINEERING
CO., INC.**
CONSULTING ENGINEERS

11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPOISETT, MA 02739
TEL: (508) 758-2749
FAX: (508) 758-2849

Project No.

2443



SOIL OBSERVATION LOGS
9/28/2021

SOIL EVALUATOR: PETER THERRIEN (S.E. 14401)

TEST HOLE #1

TOP ELEVATION 9.0

0-22"	A	SANDY LOAM 10 YR 3/2	ELEV. 7.2
22"-40"	B	LOAMY FINE SAND 10 YR 3/8	ELEV. 5.7
40"-108"	C	LOAMY FINE SAND 2.5 Y 6/4	ELEV. 0.0

OBSERVED DEPTH TO SEEPAGE - 72"
OBSERVED DEPTH TO STANDING WATER - 84"
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 47"

SOIL OBSERVATION LOGS
9/28/2021

SOIL EVALUATOR: PETER THERRIEN (S.E. 14401)

TEST HOLE #2

TOP ELEVATION 8.0

0-24"	A	SANDY LOAM 10 YR 3/2	ELEV. 6.0
24"-48"	B	FINE - MEDIUM SANDY LOAM 10 YR 4/6	ELEV. 4.0
48"-96"	C	LOAMY MEDIUM SAND 2.5 Y 6/4	ELEV. 0.0

OBSERVED DEPTH TO SEEPAGE - 77"
OBSERVED DEPTH TO STANDING WATER - 77"
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 48"

SOIL OBSERVATION LOGS
9/28/2021

SOIL EVALUATOR: PETER THERRIEN (S.E. 14401)

TEST HOLE #3

TOP ELEVATION 13.7

0-18"	A	SANDY LOAM 10 YR 3/2	ELEV. 12.2
18"-48"	B	LOAMY FINE SAND 10 YR 4/6	ELEV. 9.7
48"-96"	C	LOAMY FINE SAND 2.5 Y 6/4	ELEV. 5.7

OBSERVED DEPTH TO SEEPAGE - 72"
OBSERVED DEPTH TO STANDING WATER - NONE
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 72"

SOIL OBSERVATION LOGS
9/28/2021

SOIL EVALUATOR: PETER THERRIEN (S.E. 14401)

TEST HOLE #4

TOP ELEVATION 19.9

0-18"	A	SANDY LOAM 10 YR 3/2	ELEV. 18.4
18"-38"	B	LOAMY FINE SAND 10 YR 4/6	ELEV. 16.7
38"-108"	C	LOAMY FINE SAND 2.5 Y 6/4	ELEV. 10.9

OBSERVED DEPTH TO SEEPAGE - NONE
OBSERVED DEPTH TO STANDING WATER - NONE

GENERAL NOTES

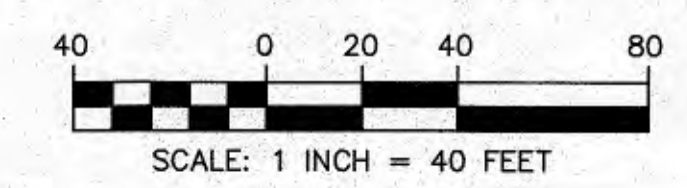
- TOPOGRAPHIC INFORMATION OBTAINED FROM AN ON-THE-GROUND SURVEY BY MADDIGAN LAND SURVEYING, LLC IN SEPTEMBER 2021 AND SUPPLEMENTED WITH LIDAR MAPPING DATA OBTAINED FROM THE NOAA OFFICE FOR COASTAL MANAGEMENT WEBSITE.
- ELEVATIONS ARE REFERENCED TO NAVD 88.
- A PORTION OF THE SUBJECT PARCEL IS LOCATED WITH A 100 YEAR FLOOD HAZARD ZONE AE (EL. 14.0) U.S.G.S. 1988 DATUM, AS DETERMINED BY FEMA FIRMETTE NO. 25023C0493K DATED 7/6/2021 AND NO. 25023C0581K DATED 2/4/2014.

WAREHAM PLANNING BOARD
APPROVAL UNDER SUBDIVISION
CONTROL LAW IS REQUIRED

DATE APPROVED: _____
DATE ENDORSED: _____

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THIS OFFICE.

TOWN CLERK, WAREHAM, MA DATE _____



FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS

11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPANSETT, MA 02739
TEL: (508) 758-2749
FAX: (508) 758-2849

Revisions			
No.	Description	Date	Apprv.
1	REVISE PER PEER REVIEW COMMENTS	2/7/2022	KJM

Date: 10/7/2021

Scale: 1"=40'
Drawn By: RMS
Designed By: KJM
Checked By: RRR
Issued For: PERMITTING



DEFINITIVE SUBDIVISION PLAN OF LAND
SHELL POINT PLACE
DAVID ANDRADE
69 GREAT NECK ROAD
WAREHAM, MASSACHUSETTS

Drawing Title: EXISTING CONDITIONS
Project No. 2443 Sheet 3 OF 8
Sheet No. EC-1

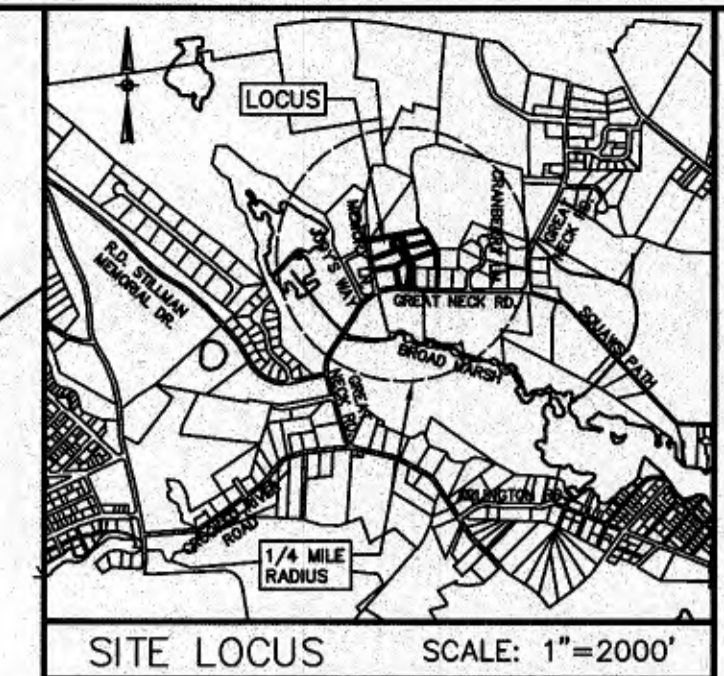
Revisions			
No.	REVISION PER REVIEW COMMENTS	DATE	BY
1	REVISE PER PERCHERED, INC. COMMENTS	2/4/2022	KJM
Date: 10/7/2021			

Scale: 1"=40'		
Drawn By: RMS	Designed By: KJM	Checked By: DJM
Issued For: PERMITTING		

DEFINITIVE SUBDIVISION PLAN OF LAND
SHELL POINT PLACE
DAVID ANDRADE
 68 GREAT NECK ROAD
 WAREHAM, MASSACHUSETTS

Drawing Title: **LOTTING PLAN**

Project No. 2443	Sheet 4 OF 8
Sheet No. L-1	



SITE LOCUS SCALE: 1"=2000' FOR REGISTRY USE ONLY

GENERAL NOTES

- THE LOCUS AREA IS SHOWN ON THE TOWN OF WAREHAM ASSESSORS MAP AS PARCEL 1019 MAP 41. LOCUS DEED IS RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS IN BOOK 55547 PAGE 162.
- LOTS 1 AND 2 ARE SUBJECT TO UTILITY/ACCESS EASEMENTS TO BE CONVEYED TO THE TOWN OF WAREHAM UPON TOWN MEETING ACCEPTANCE OF THE PROPOSED ROADWAY AND STORMWATER INFRASTRUCTURE.
- PROPERTY LINE INFORMATION HAS BEEN COMPILED FROM RECORD PLANS, DEEDS OF RECORD AND FROM AN ACTUAL ON THE GROUND SURVEY PERFORMED BY MADDIGAN LAND SURVEYING, LLC. IN SEPTEMBER 2021.
- THIS PLAN AND THE ACCOMPANYING CERTIFICATIONS DO NOT CONSTITUTE A CERTIFICATION OF TITLE TO THE PROPERTY SHOWN HEREON. THE OWNER OF THE LOCUS AND ABUTTING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.
- THE SUBJECT PARCEL IS LOCATED WITHIN A RESIDENCE 30 (R-30) ZONING DISTRICT AS DETERMINED BY THE OFFICIAL ZONING MAP OF THE TOWN OF WAREHAM, DATED 5/14/07.
- A PORTION OF THE SUBJECT PARCEL IS LOCATED WITH A 100 YEAR FLOOD HAZARD ZONE AE (EL. 14.0) U.S.G.S. 1988 DATUM, AS DETERMINED BY FEMA MAP NO. 25023C0493K DATED 7/6/2021 AND MAP NO. 25023C0581K DATED 2/4/2014.
- THE BOUNDARY OF THE WETLAND RESOURCE AREAS SHOWN ON ADJACENT LOT 1004.A N/F PERCHED, INC. AND LOT 1012.A N/F POPES POND CRANBERRY CO. INC. HAVE BEEN OBTAINED FROM A RECORD MASSGIS MAPPING AND SHALL BE CONSIDERED APPROXIMATE FOR BUFFER ZONE PURPOSES ONLY. THERE ARE NO WETLAND RESOURCE AREAS ON THE SUBJECT PARCEL.
- NO DWELLING WILL BE CONSTRUCTED ON ANY LOT WITHOUT FIRST SECURING FROM THE BOARD OF HEALTH THE DISPOSAL WORKS CONSTRUCTION PERMIT REQUIRED BY TITLE V OF THE STATE ENVIRONMENTAL CODE.
- LOTS 1-6 SHOWN HEREON WILL BE SERVICED BY TOWN WATER AND INDIVIDUAL ON-SITE SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
- BASED ON THE TOWN OF WAREHAM ARCGIS UTILITY MAPPING, THERE IS NO TOWN SEWER WITHIN 1,500 FEET OF THE SUBJECT PARCEL.

R-30 DISTRICT DIMENSIONAL REQUIREMENTS
LOT DIMENSION TABLE

MINIMUM AREA	30,000 SQUARE FEET
MINIMUM FRONTAGE	150 FEET
MINIMUM FRONT YARD SETBACK	20 FEET
MINIMUM SIDE YARD SETBACK	10 FEET
MINIMUM REAR YARD SETBACK	10 FEET
MAXIMUM LOT COVERAGE	25%

NAME AND ADDRESS OF OWNER/APPLICANT

DAVID ANDRADE
P.O. BOX 255
19 OLD ONSET ROAD
ONSET, MA 02558

PLAN REFERENCES:

- BOOK 2575 PAGE 221
- PLAN BOOK 42 PAGE 712
- PLAN BOOK 29 PAGE 144
- PLAN BOOK 48 PAGE 489
- PLAN BOOK 51 PAGE 76
- PLAN BOOK 49 PAGE 985
- PLAN BOOK 49 PAGE 986
- PLAN BOOK 65 PAGE 55
- COUNTY COMMISSIONERS PLAN BOOK 7 PAGE 533

PLANS SUBJECT TO COVENANTS, CONDITIONS AND RESTRICTION SET FORTH IN A COVENANTS(S) DATED TO BE RECORDED HERewith. DECLARATION OF RESERVED EASEMENTS TO BE RECORDED HERewith.

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

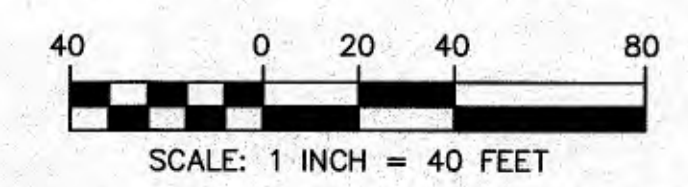
PROFESSIONAL LAND SURVEYOR DATE

WAREHAM PLANNING BOARD
APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED: _____
DATE ENDORSED: _____

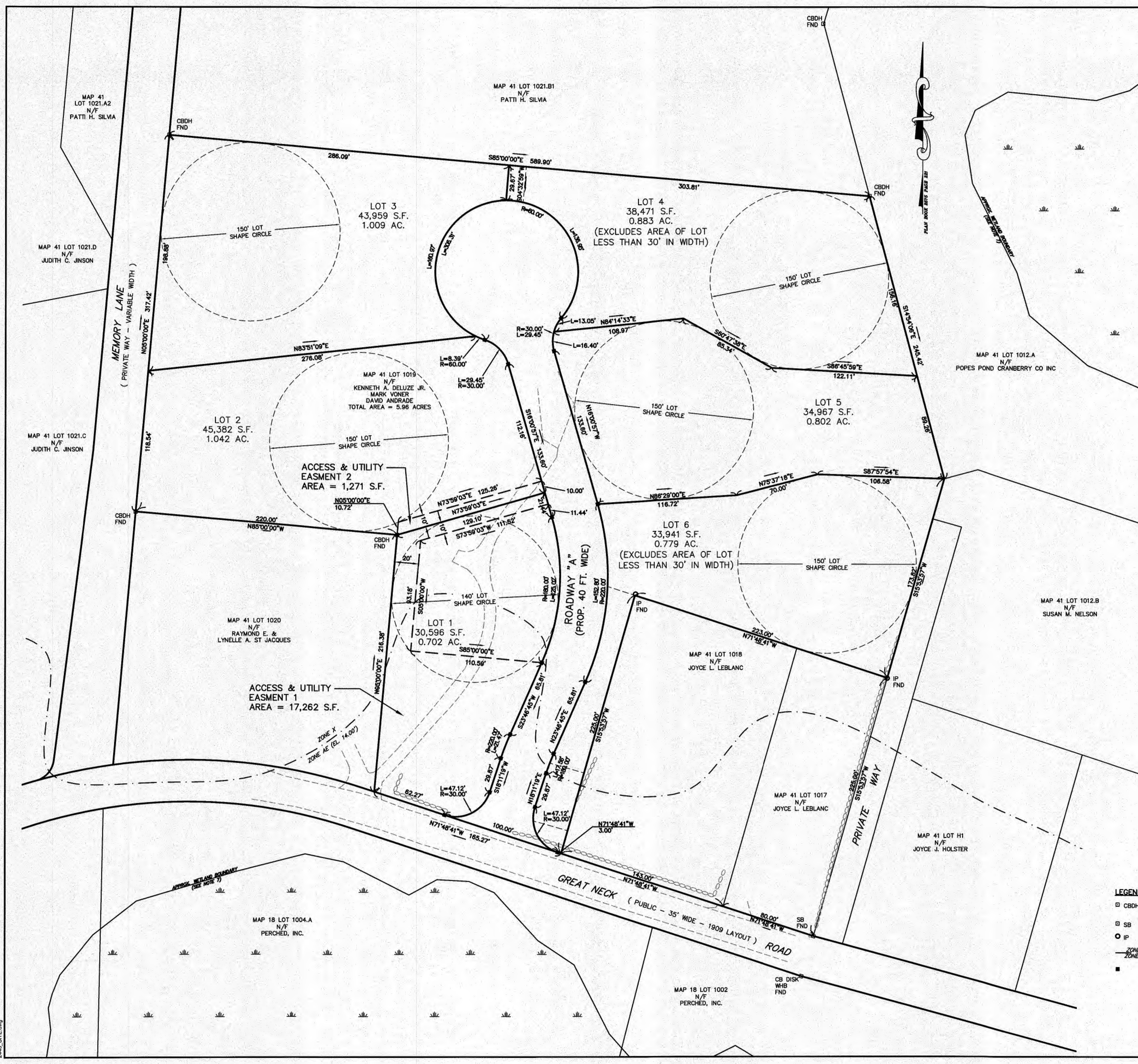
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TOWN CLERK, WAREHAM, MA DATE



LEGEND

- CBDH CONCRETE BOUND WITH DRILL HOLE FOUND
- SB STONE BOUND FOUND
- IP IRON PIPE FOUND
- ZONE X ZONE AE 100 YEAR FLOOD BOUNDARY (SEE NOTE 5)
- CONCRETE BOUND TO BE SET



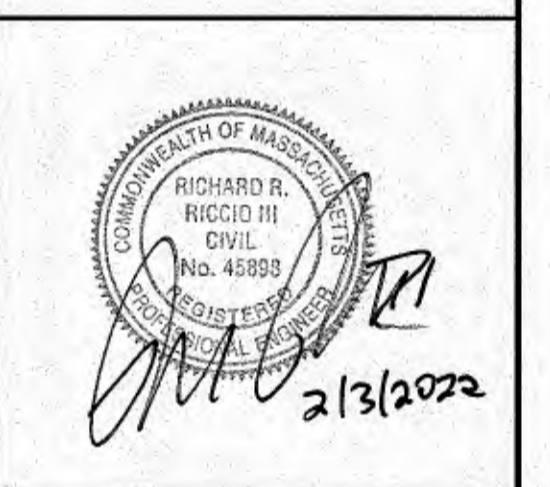
Revisions			
No.	Description	Date	Appr.
1	REVISE PER PEER REVIEW COMMENTS	1/2/2022	KJM

Date: 10/7/2021

Scale: 1"=40'

Drawn By: RMS, Designed By: KJM, Checked By: RRR

Issued For: **PERMITTING**

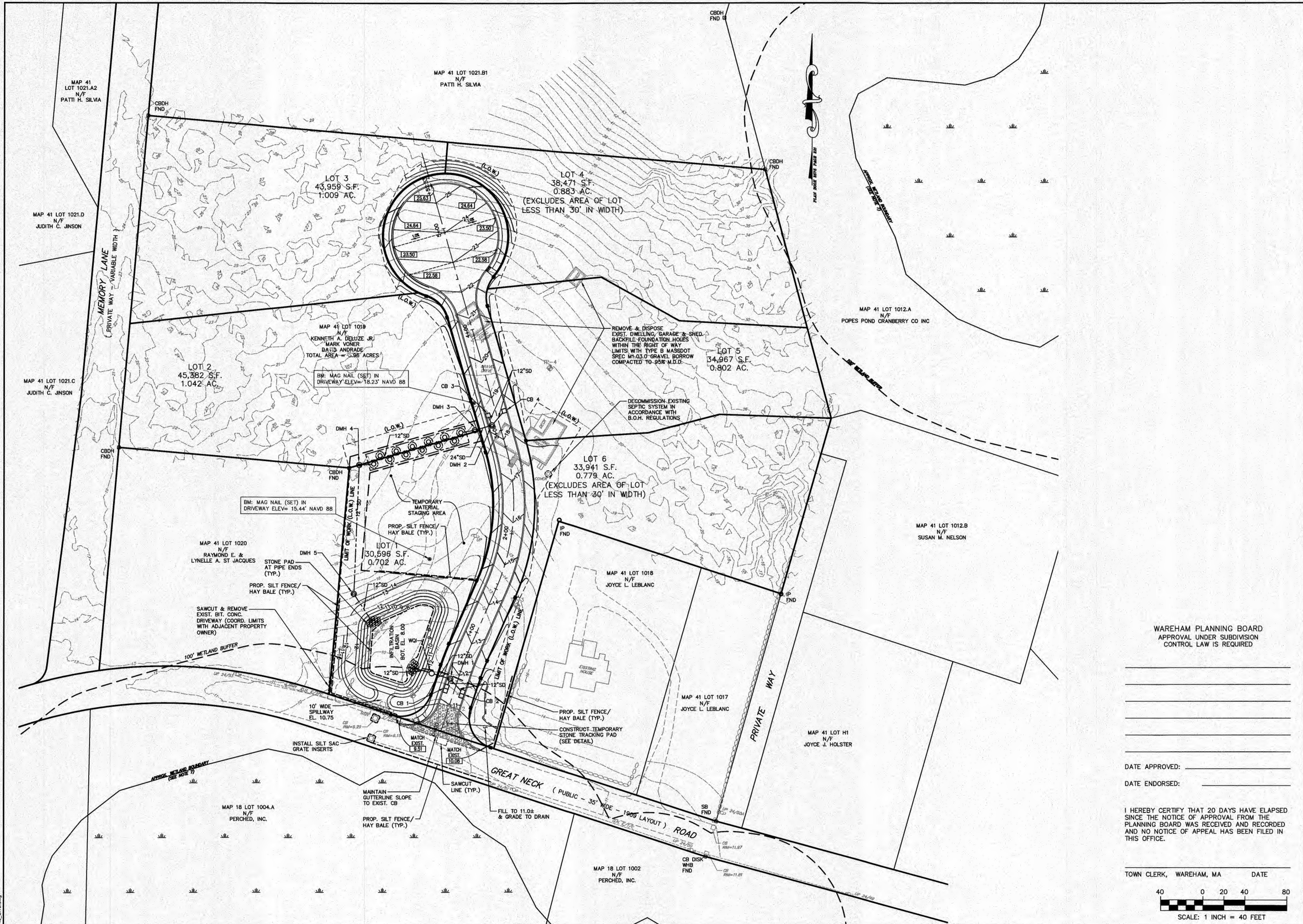


DEFINITIVE SUBDIVISION PLAN OF LAND
SHELL POINT PLACE
DAVID ANDRADE
 69 GREAT NECK ROAD
 WAREHAM, MASSACHUSETTS

Drawing Title: **GRADING AND DRAINAGE**

Project No. 2443, Sheet 5 OF 8

Sheet No. **GD-1**



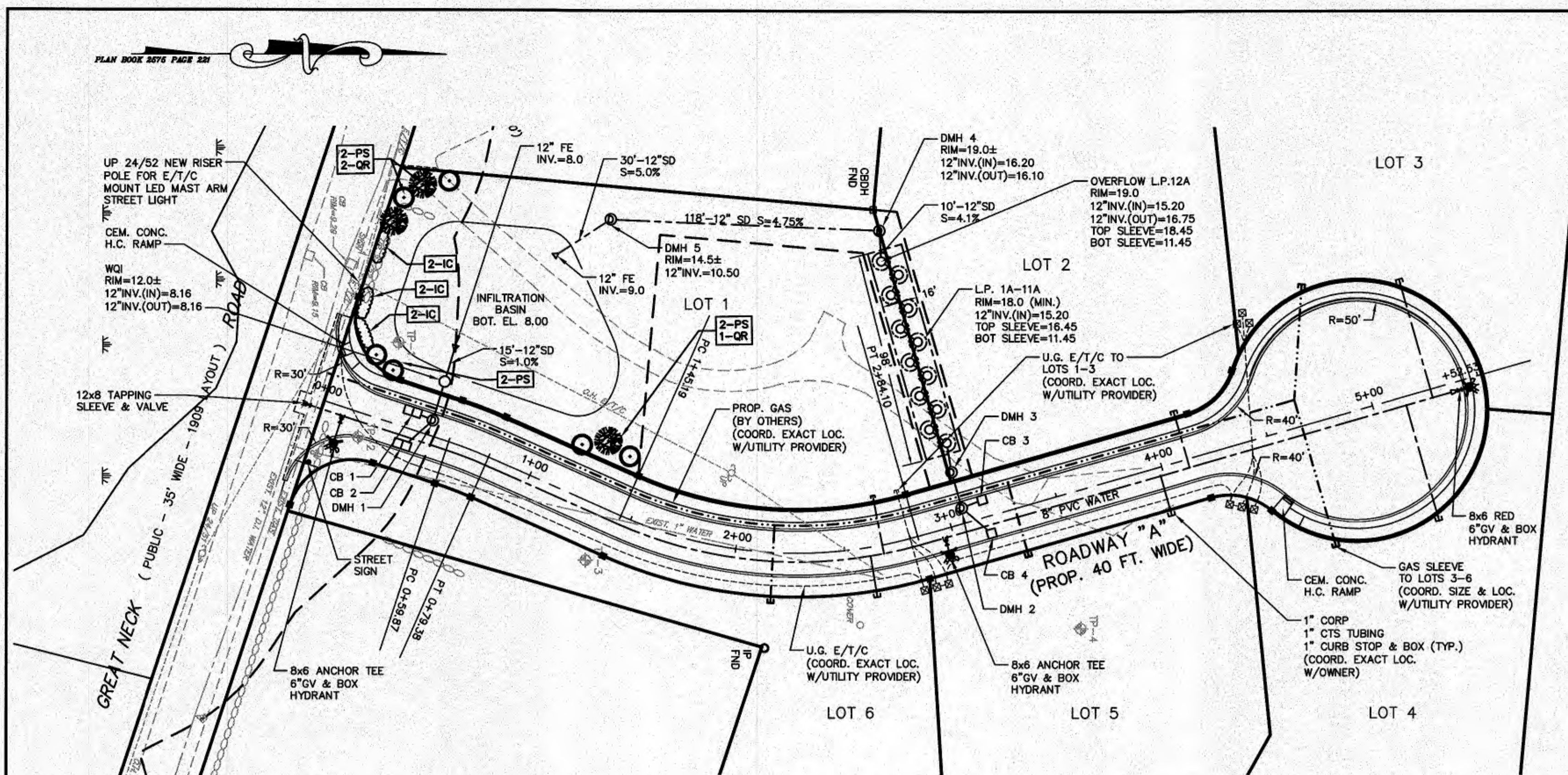
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TOWN CLERK, WAREHAM, MA DATE _____

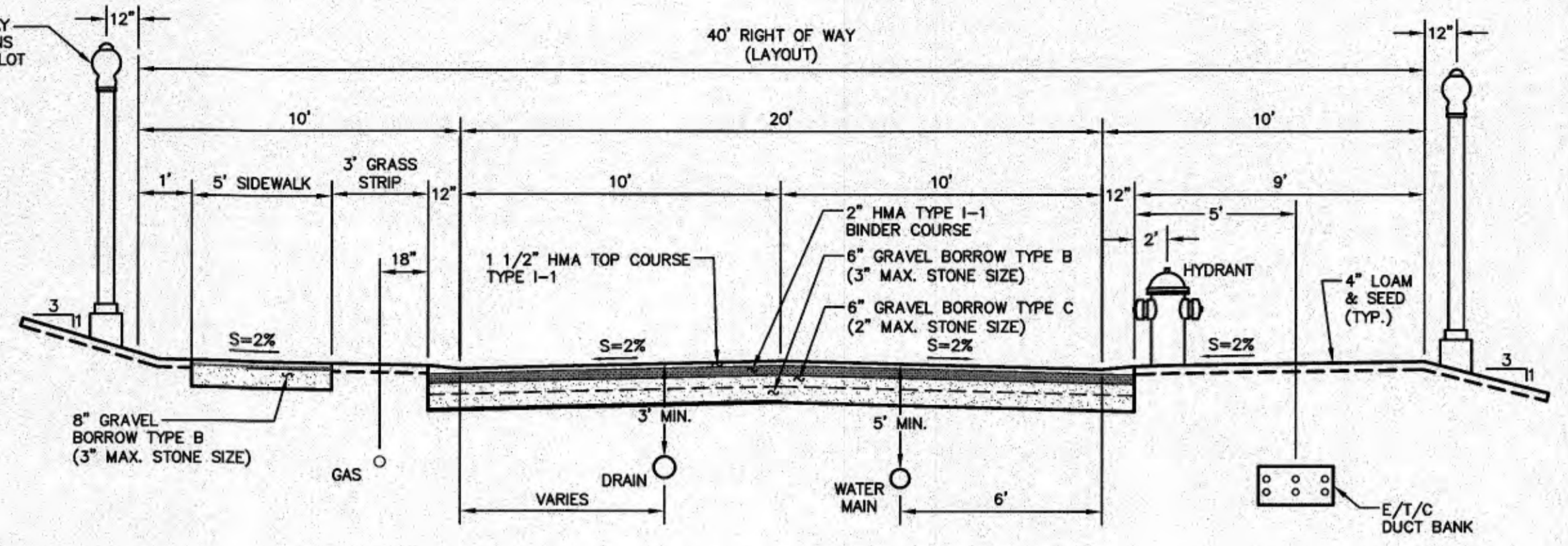
SCALE: 1 INCH = 40 FEET



ROADWAY "A" PLAN VIEW
STATION 0+00 TO 5+52.53
SCALE: 1"=40'

ORNAMENTAL PLANT LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
6	PS	WHITE PINE	PINUS STROBUS	2.5"-3" CAL.
3	OR	RED OAK	QUERCUS RUBRA	2.5"-3" CAL.
6	IC	JAPANESE HOLLY	ILEX CRENATA	#7

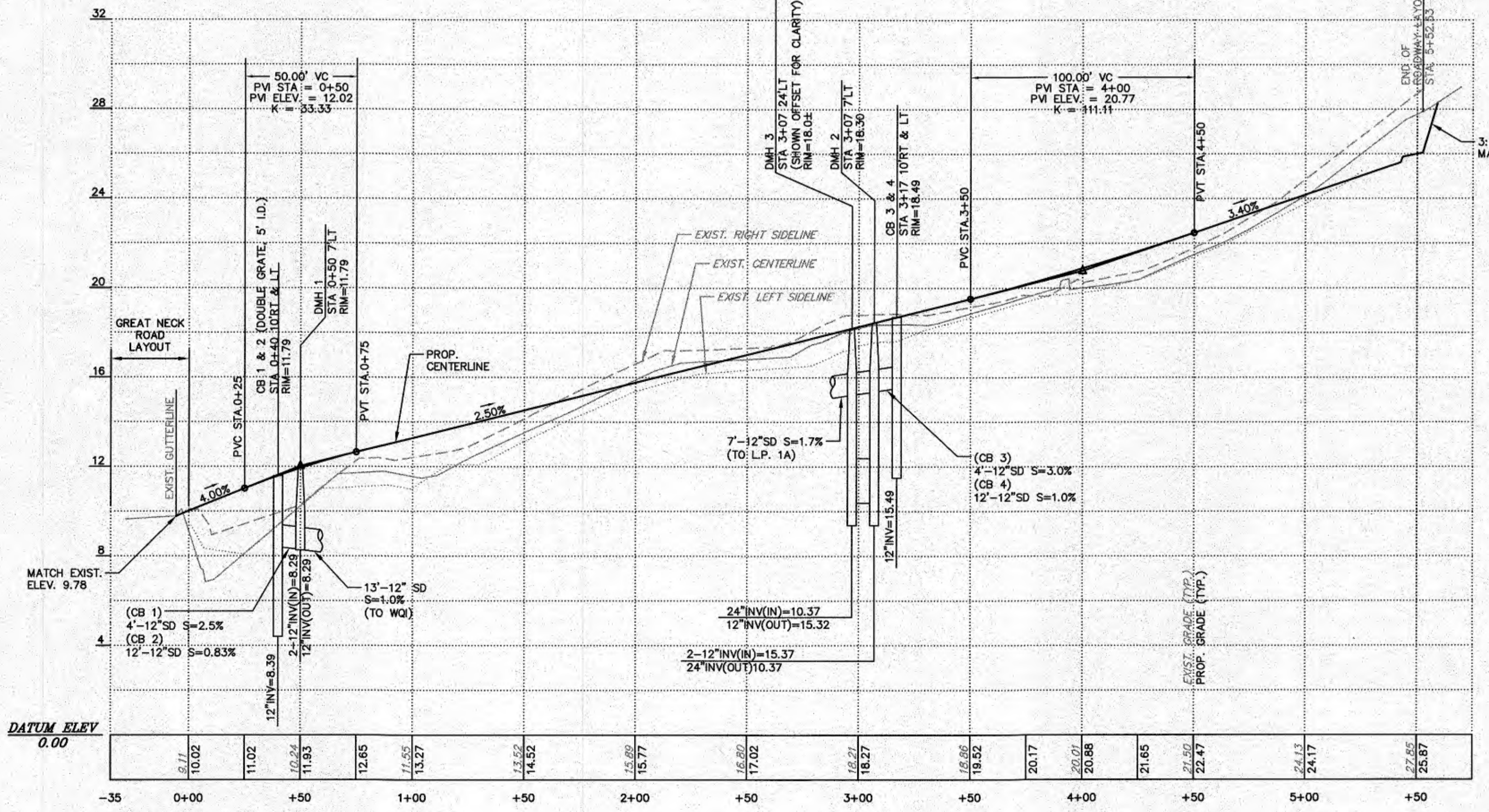


TYPICAL CROSS SECTION
SCALE: 1"=4'

CONSTRUCTION BASELINE DATA

STATION TO STATION	BEARING	DISTANCE	RADIUS	LENGTH
0+00.00 - 0+59.87	N 18°11'19" E	59.87'		
0+59.87 - 0+79.38			200.00'	19.51'
0+79.38 - 1+45.19	N 23°46'45" E	65.81'		
1+45.19 - 2+84.10			200.00'	138.91'
2+84.10 - 5+52.53	N 16°00'57" W	268.43'		

GENERAL NOTE:
1. UNLESS OTHERWISE NOTED ALL STORM DRAIN PIPING SHALL BE HDPE SMOOTH WALL INTERIOR AS MANUFACTURED BY ADS, INC. N-12 OR EQUAL.



ROADWAY "A" PROFILE
STATION 0+00 TO 5+52.53
SCALE: 1"=40' HORIZONTAL
1"=4' VERTICAL

WAREHAM PLANNING BOARD
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TOWN CLERK, WAREHAM, MA DATE _____

SCALE: 1 INCH = 40 FEET

FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS

110 INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPANSETT, MA 02739
TEL: (508) 758-2749
FAX: (508) 758-2849

Revisions

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Date: 10/7/2021

Scale: 1"=40'

Drawn By: RMS
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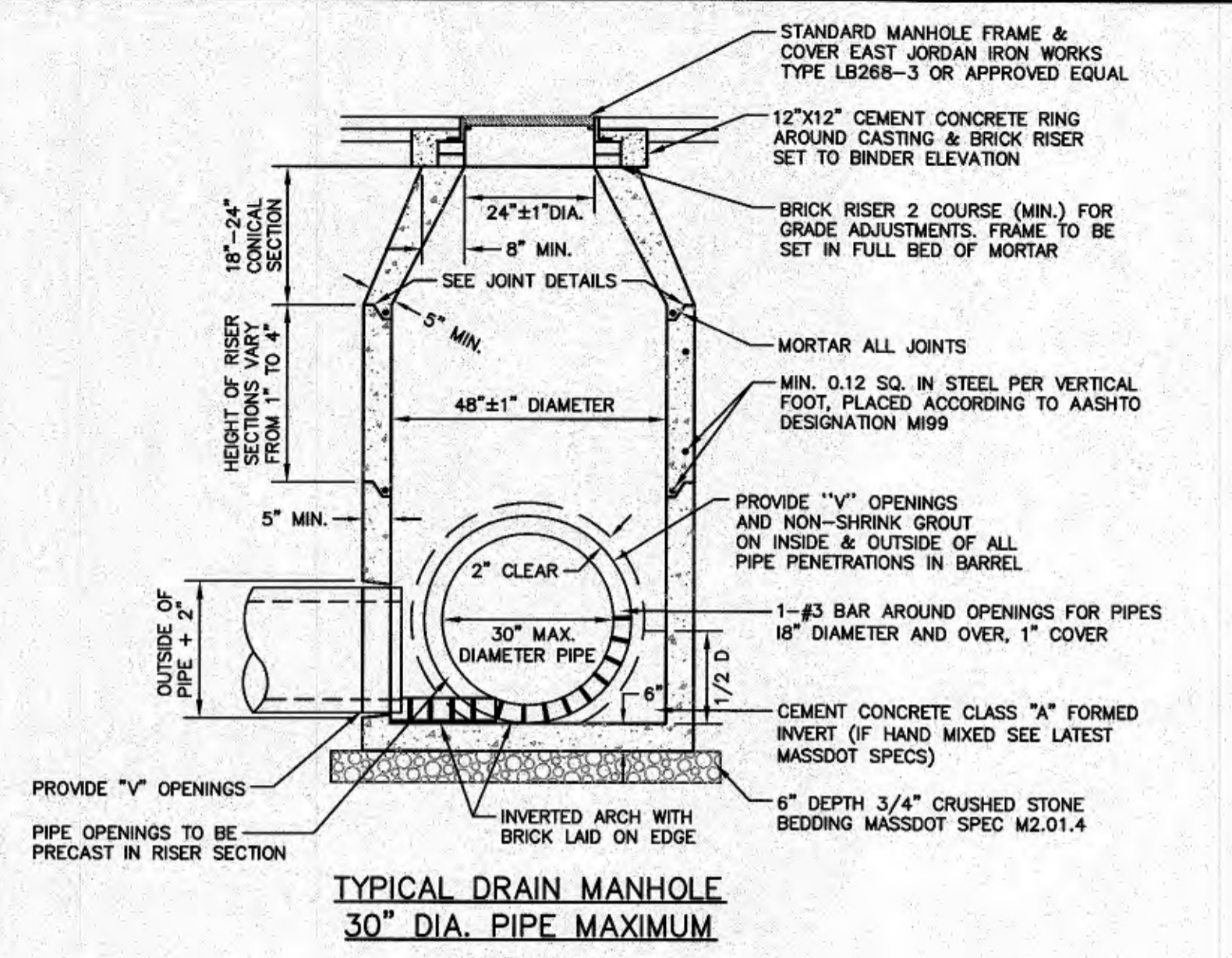


DEFINITIVE SUBDIVISION PLAN OF LAND
SHELL POINT PLACE
DAVID ANDRADE
69 GREAT NECK ROAD
WAREHAM, MASSACHUSETTS

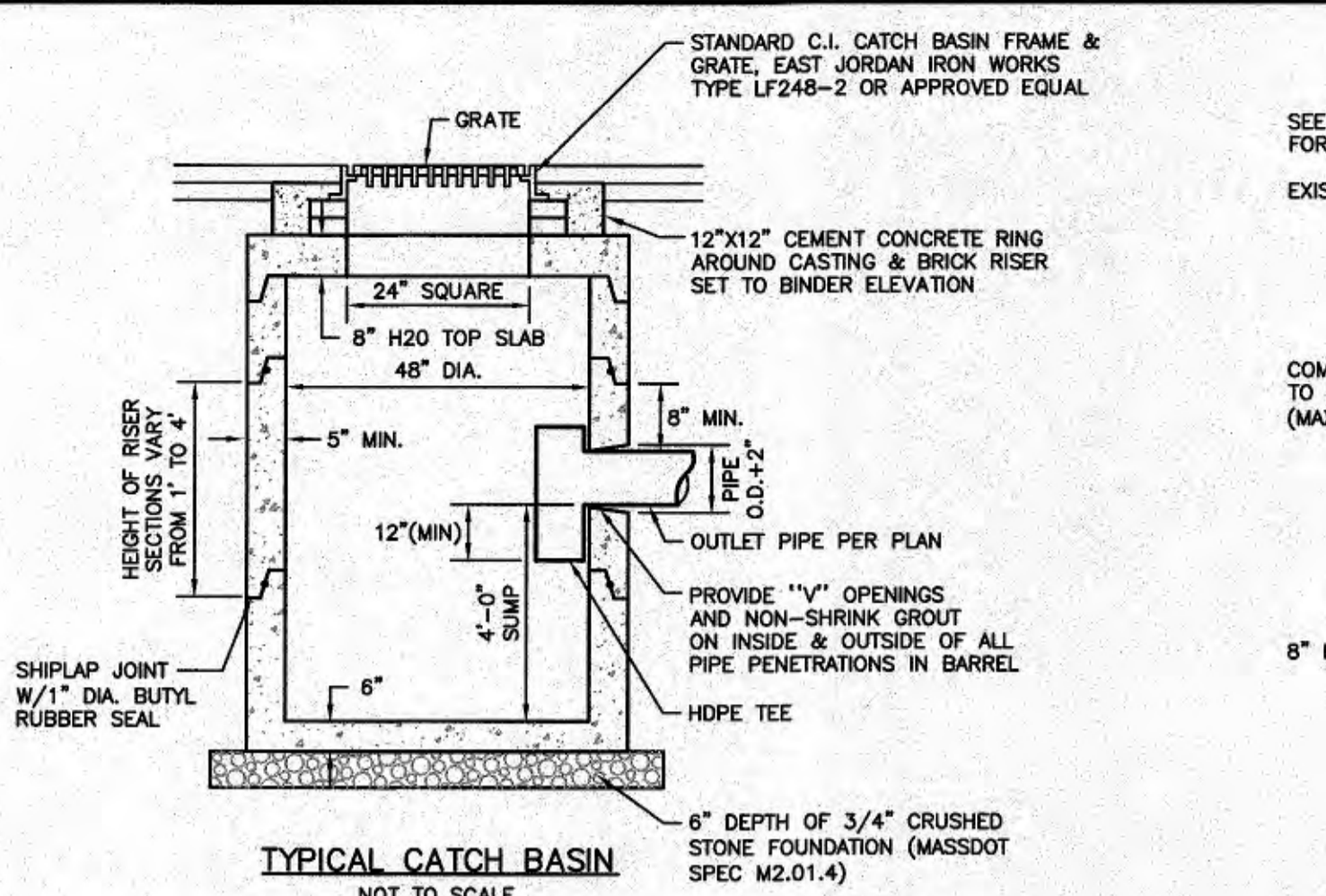
Drawing Title: **PLAN AND PROFILE**

Project No. 2443 Sheet 6 OF 8

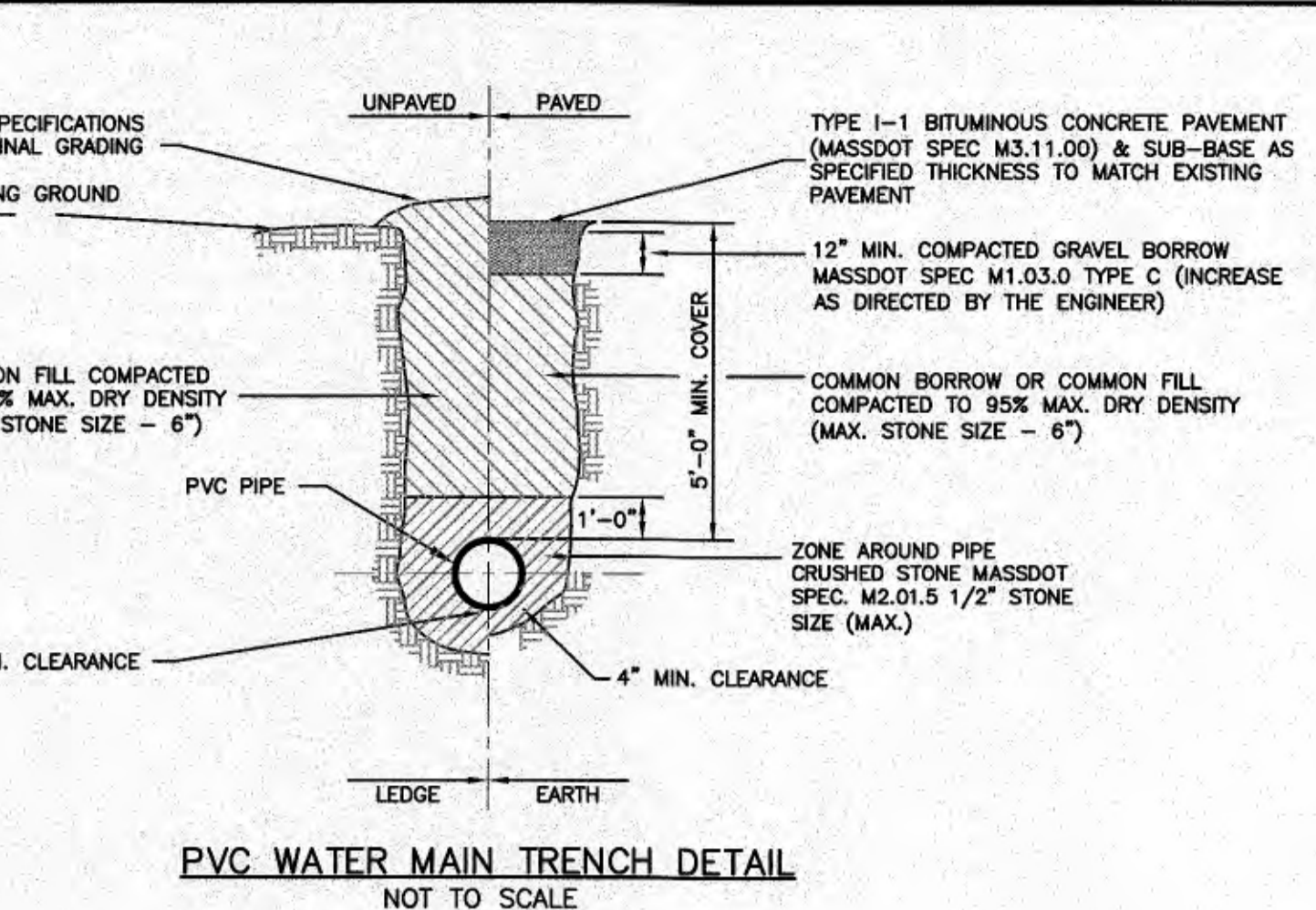
Sheet No. **P-1**



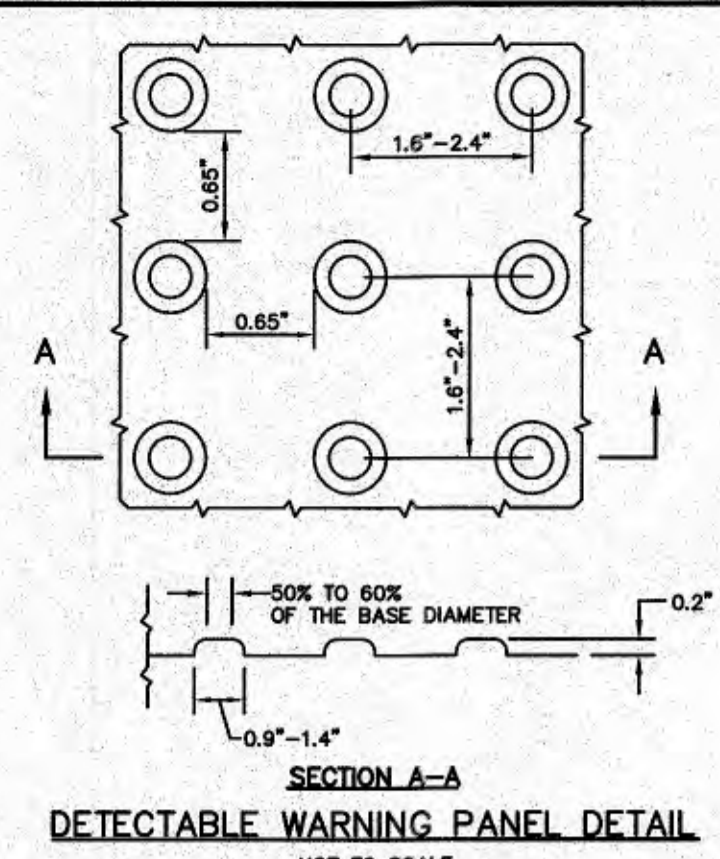
- NOTES:
1. MANHOLE DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
 2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
 3. USE FLAT TOP SLAB WHERE FINISHED GRADE ELEVATIONS PROHIBIT THE USE OF A CONE SECTION.
 4. FILL OUTSIDE FACE OF ALL MANHOLE JOINTS WITH NON-SHRINK MORTAR.
 5. WHERE DRAIN MANHOLES OF GREATER DIAMETER ARE SPECIFIED ON THE PLANS, THEIR CONSTRUCTION SHALL MEET THE TYPICAL DRAIN MANHOLE SPECIFICATIONS.



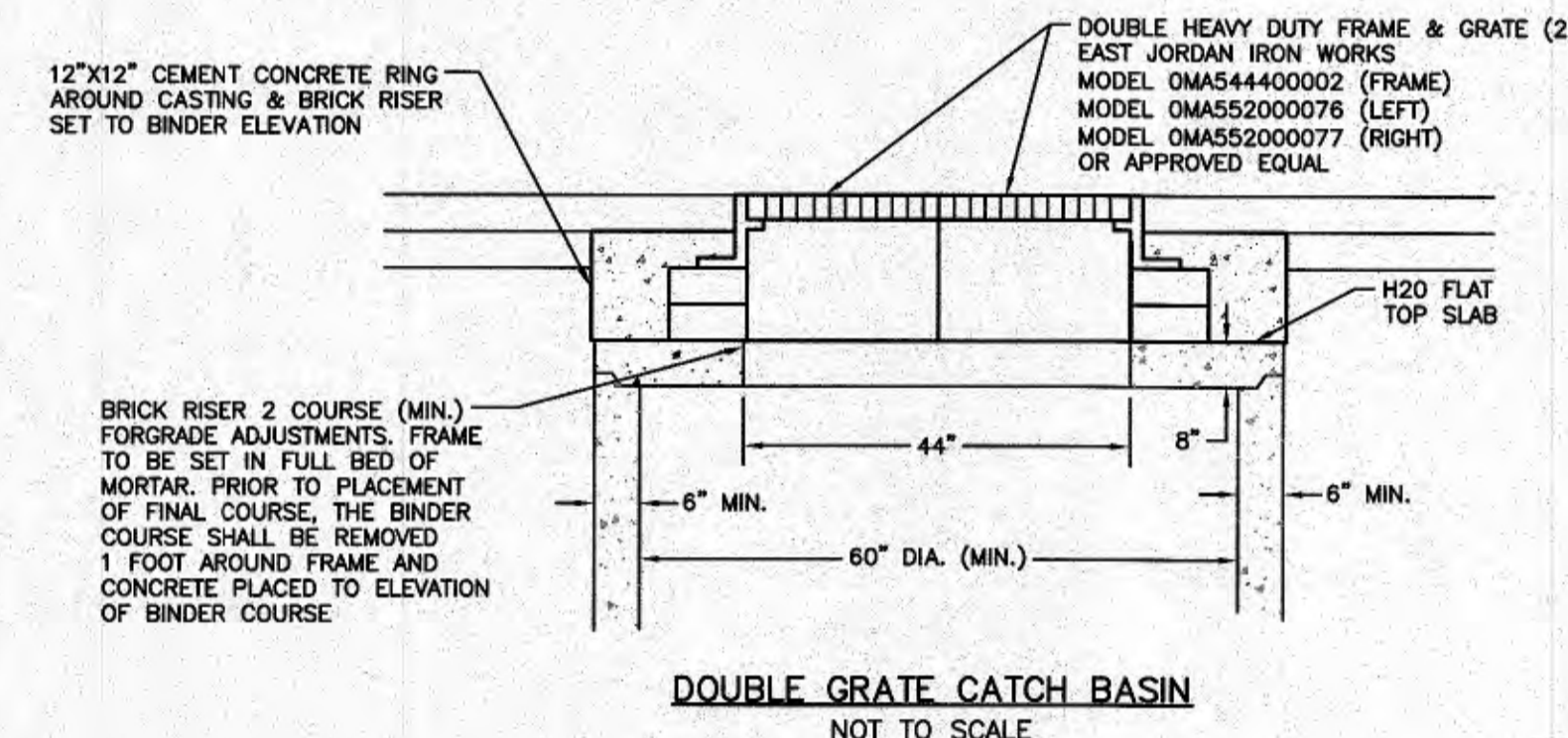
- NOTES:
1. CATCH DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
 2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
 3. FILL OUTSIDE FACE OF ALL MANHOLE JOINTS WITH NON-SHRINK MORTAR.
 4. BASE SECTION TO BE MONOLITHIC.
 5. WHERE CATCH BASIN OF GREATER DIAMETER ARE SPECIFIED ON THE PLANS, THEIR CONSTRUCTION SHALL MEET THE TYPICAL CATCH BASIN SPECIFICATIONS.



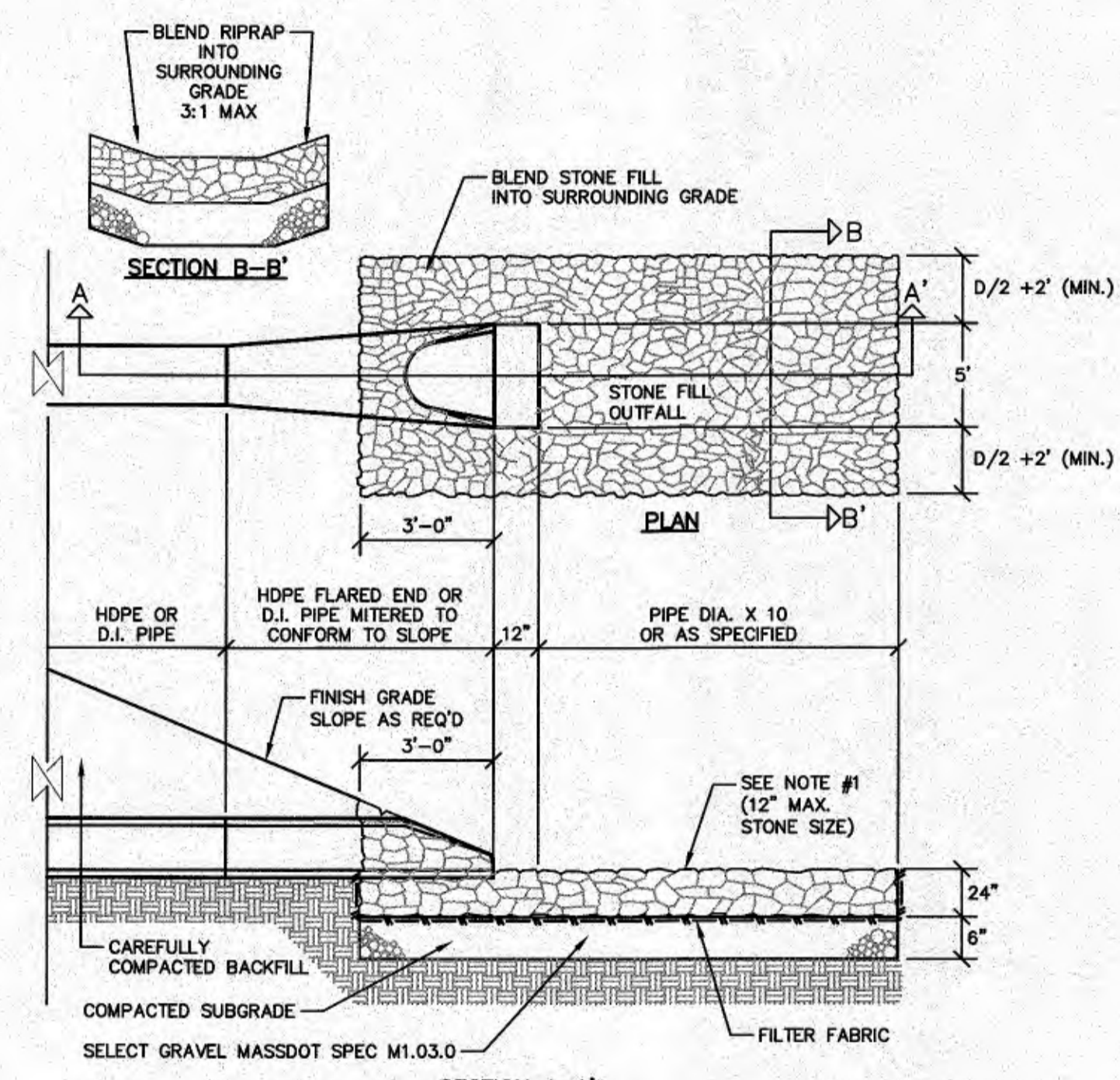
- NOTES:
1. TYPE I-B BITUMINOUS CONCRETE PAVEMENT (MASSDOT SPEC M3.11.00) & SUB-BASE AS SPECIFIED THICKNESS TO MATCH EXISTING PAVEMENT
 - 12" MIN. COMPACTED GRAVEL BORROW MASSDOT SPEC M1.03.0 TYPE C (INCREASE AS DIRECTED BY THE ENGINEER)
 - COMMON BORROW OR COMMON FILL COMPACTED TO 95% MAX. DRY DENSITY (MAX. STONE SIZE - 6")
 - ZONE AROUND PIPE CRUSHED STONE MASSDOT SPEC. M2.01.5 1/2" STONE SIZE (MAX.)
 - 8" MIN. CLEARANCE
 - 4" MIN. CLEARANCE



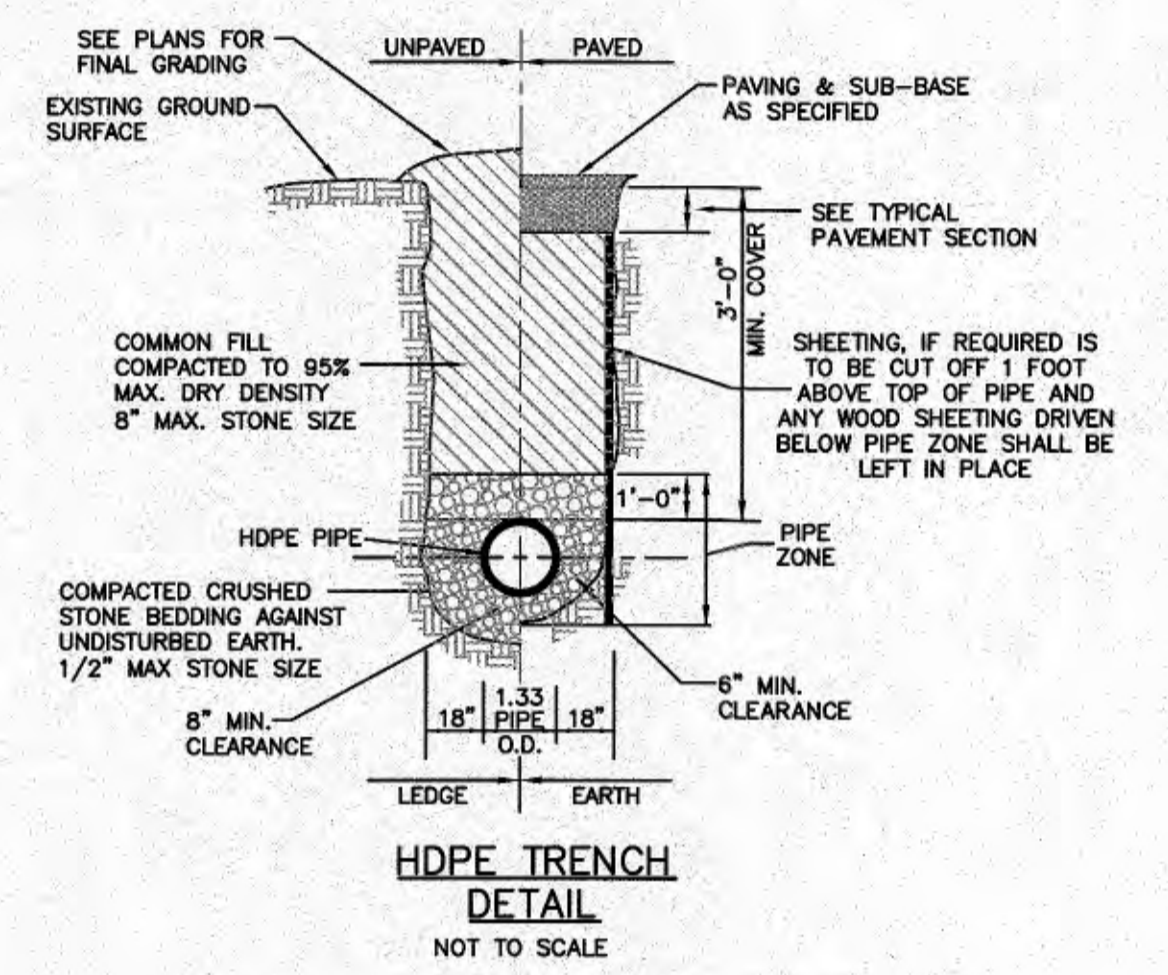
- NOTES:
1. PANELS SHALL BE 2448DPAV1 AS MANUFACTURED BY ADA SOLUTIONS, INC.
 2. PANELS SHALL BE YELLOW IN COLOR UNLESS OTHERWISE SPECIFIED.



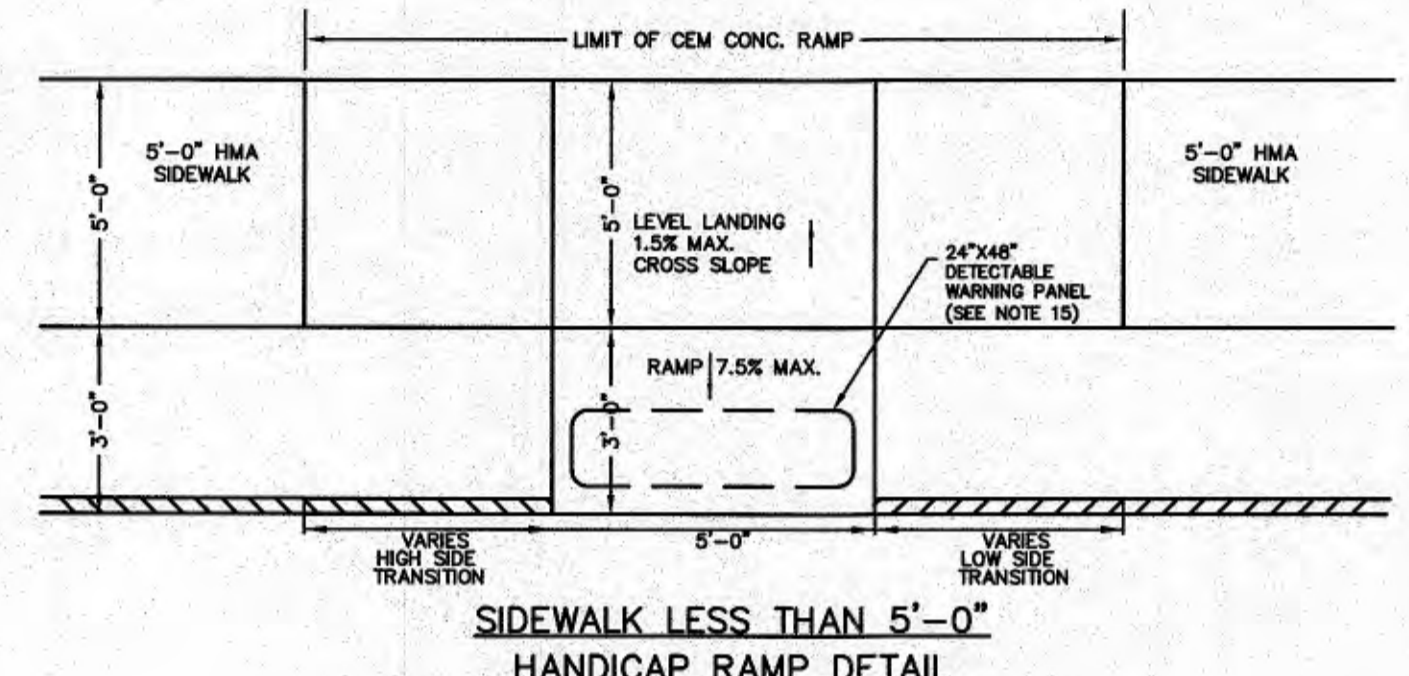
- NOTES:
1. CATCH BASIN DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
 2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
 3. OUTSIDE FACE OF ALL MANHOLE JOINTS WITH NON-SHRINK MORTAR.
 4. BASE SECTION TO BE MONOLITHIC.
 5. REFER TO TYPICAL CATCH BASIN DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION



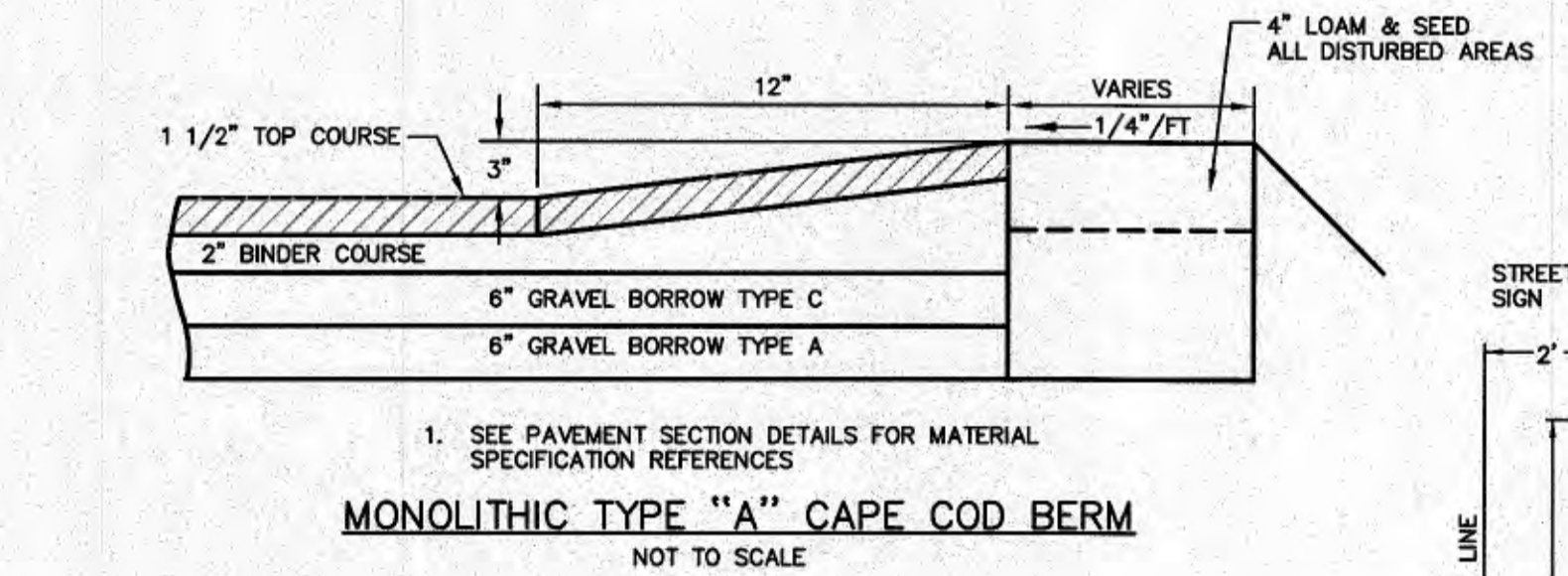
- NOTES:
1. STONE FILL SHALL CONFORM TO MASSDOT SPECIFICATIONS M2.02.3 STONE FOR PIPE ENDS. EACH STONE SHALL WEIGH NO LESS THAN 50 LBS. AND NO MORE THAN 120 LBS. AND 75% OF THE ? SHALL NOT BE LESS THAN 75 LBS.



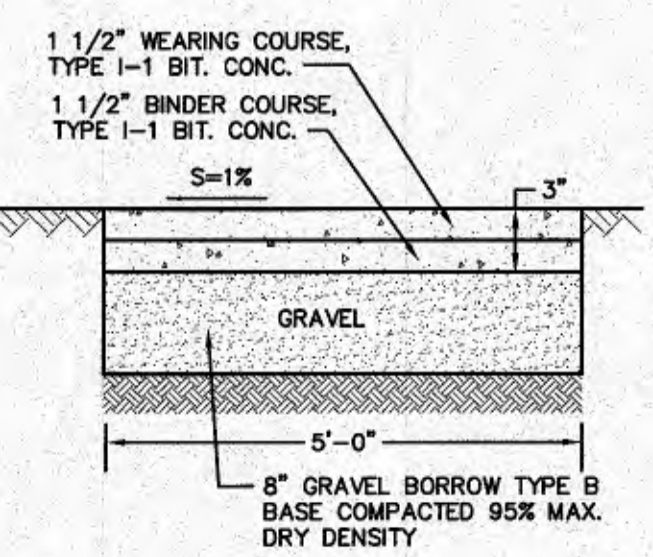
- NOTES:
1. TYPE C GRAVEL BORROW SHALL CONFORM TO MASSDOT SPECIFICATION M1.03.0
 2. CRUSHED STONE SHALL CONFORM TO MASSDOT SPECIFICATION M2.01.5



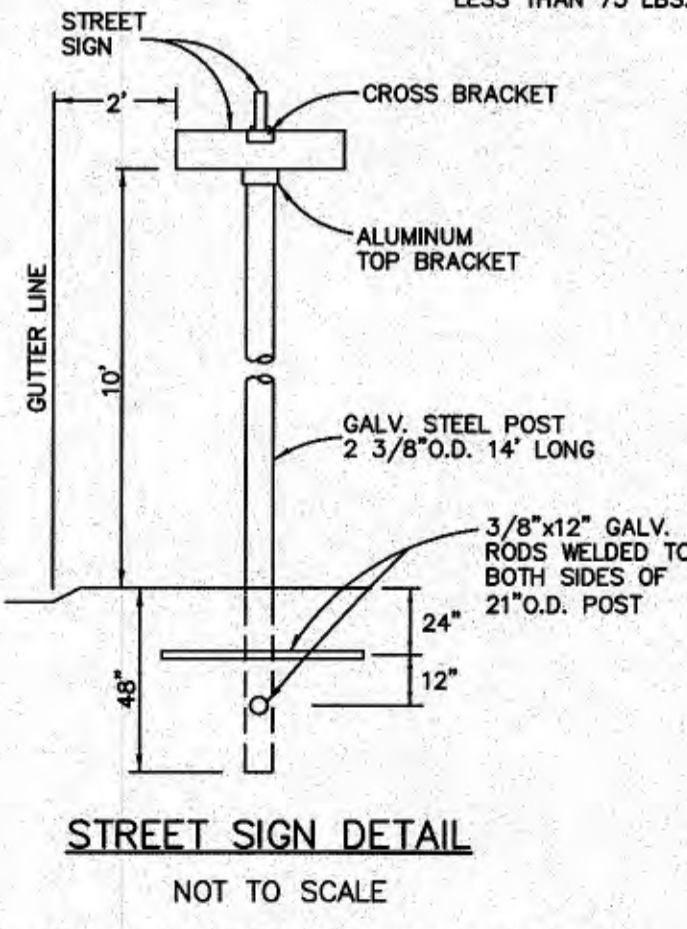
- NOTES:
1. THE SIDEWALK CROSS SLOPE MUST NOT EXCEED 1.5% FOR CEMENT CONCRETE. (REFER TO STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION 705.)
 2. AN UNSTRUCTURED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 36" SHALL BE MAINTAINED.
 3. THE WHEELCHAIR RAMP SLOPE AND SIDE OF SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
 4. WHERE THE ROAD PROFILE EXCEEDS ON THE HIGH SIDE FROM TRANSITION LENGTH SHALL BE MAINTAINED.
 5. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
 6. FIXED OBJECTS—UTILITY POLES, HYDRANTS ETC.—MUST NOT ENCRUGH ON WHEELCHAIR RAMPS.
 7. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
 8. CATCH BASINS WHICH ARE TO BE LOCATED IN THE WIDTH OF A WHEELCHAIR RAMP SHOULD BE LOCATED UP-GRADE WHENEVER POSSIBLE.
 9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH PARKING AREA.
 10. TESTING SURFACE—WHEN TESTING A STRAIGHT EDGE PLACED PARALLEL TO THE LINE OF SLOPE, THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4" OF AN INCH.
 11. WHEN IT IS TECHNOLOGICALLY UNFEASIBLE TO CONSTRUCT WHEELCHAIR RAMPS IN COMPLIANCE WITH THE ARCHITECTURAL ACCESS BOARD'S REGULATIONS, A VARIANCE WILL NEED TO BE SUBMITTED. THE DEPARTMENT'S HANDICAPPED ACCESSIBILITY SECTION SHOULD BE CONTACTED UNDER THESE CIRCUMSTANCES.
 12. THE CENTERLINE OF THE WHEELCHAIR RAMP MUST BE CONSTRUCTED PERPENDICULAR TO THE CURB. IN CASES WHERE THE CROSSWALK IS LOCATED WITHIN THE RAMP, A TURNING RADIUS OF 10 FT. IS MINIMALLY CONTAINED WITHIN THE CROSSWALK, MUST BE PROVIDED AT THE BASE OF THE WHEELCHAIR RAMP.
 13. THE CONTRACTOR SHALL OBTAIN GRADES AT ALL W.C. RAMP LOCATIONS AND SHALL SET TRANSITION LENGTHS ACCORDING TO THE APPROPRIATE TABLES AND DETAILS SHOWN.
 14. THE ENTIRE WHEELCHAIR RAMP SHALL BE CONSTRUCTED OF CEMENT CONCRETE.
 15. ALL RAMP JOINTS AND TRANSITION SECTIONS WHICH DEFINE GRADE CHANGES SHALL BE FORMED AND STANDED FOR APPROVAL BY THE PROJECT ENGINEER PRIOR TO PLACING BITUMINOUS CONCRETE.
 16. DETECTABLE WARNING PANELS SHALL BE CAST-IN-PLACE COMPOSITE RUBBER UNIT MODEL NO. 2448DPAV1 AS MANUFACTURED BY ADA SOLUTIONS, INC. OR APPROVED EQUAL. UNIT SHALL BE FEDERAL YELLOW IN COLOR UNLESS OTHERWISE SPECIFIED BY THE OWNER.



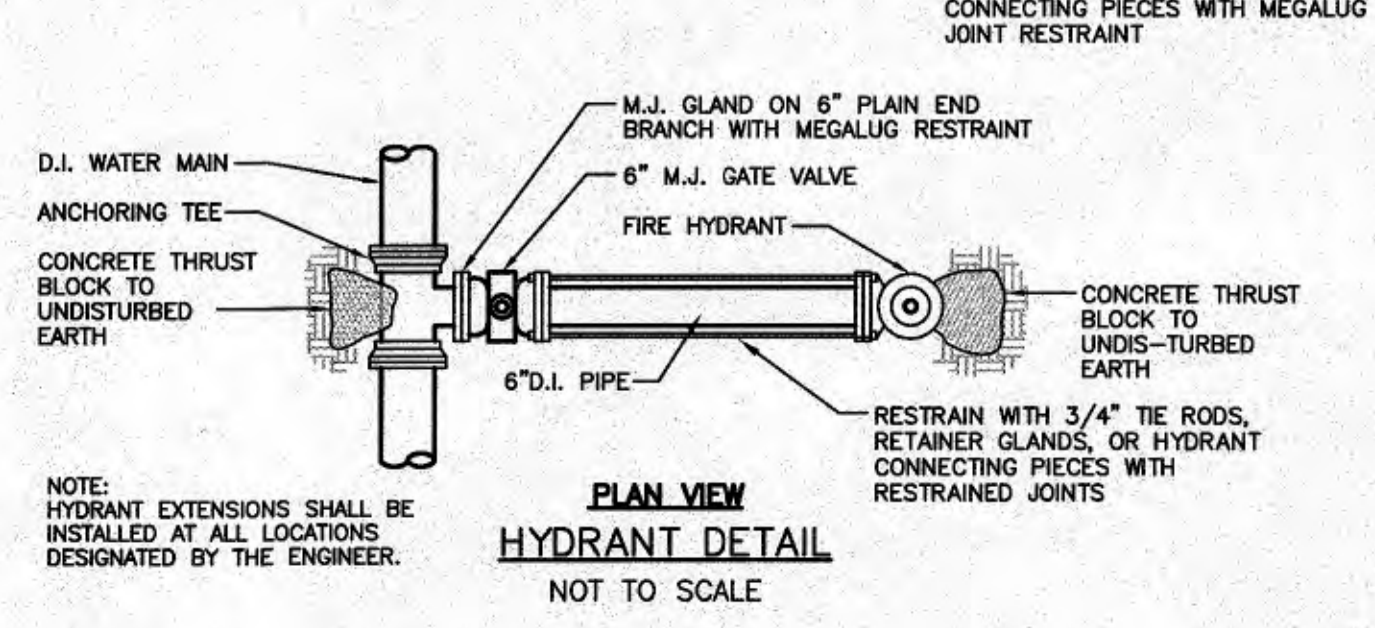
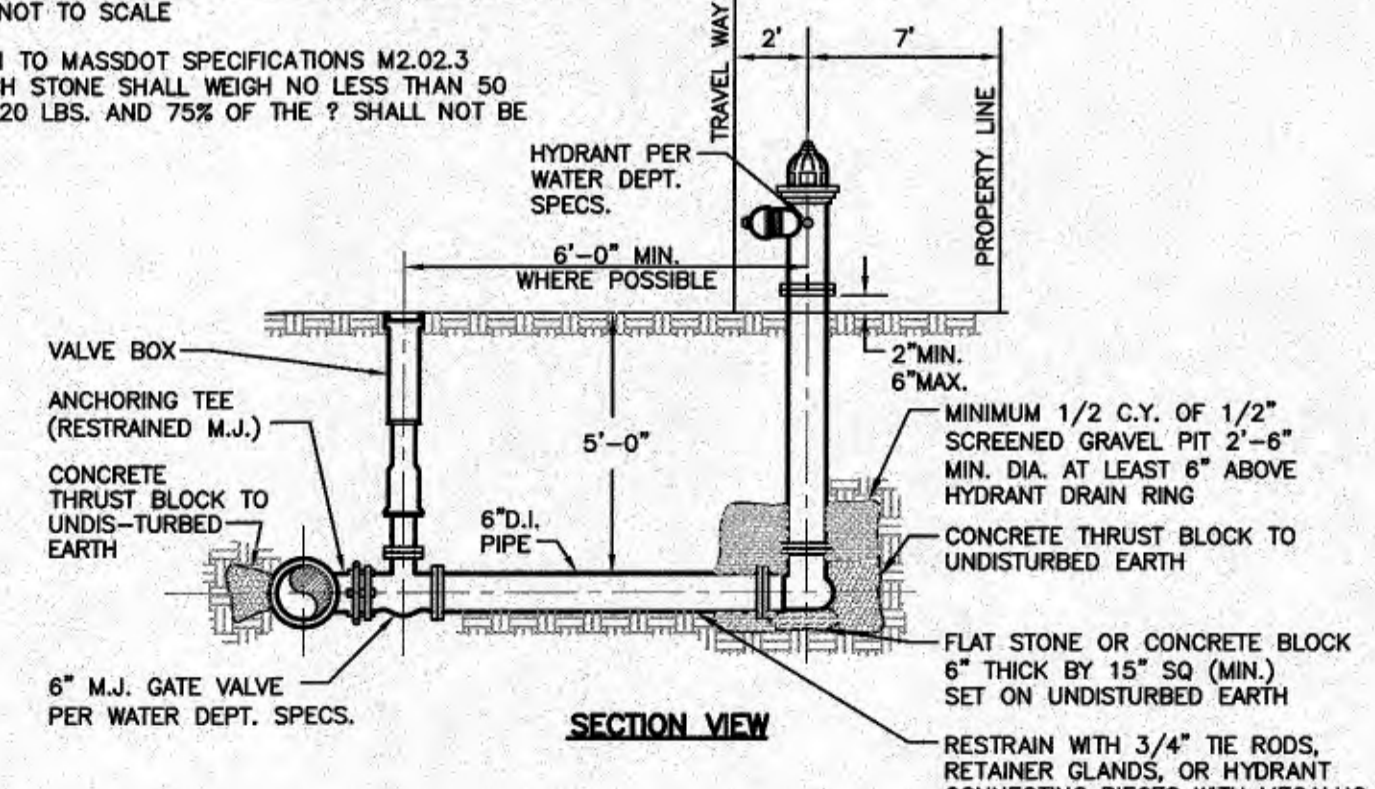
- NOTES:
1. SEE PAVEMENT SECTION DETAILS FOR MATERIAL SPECIFICATION REFERENCES



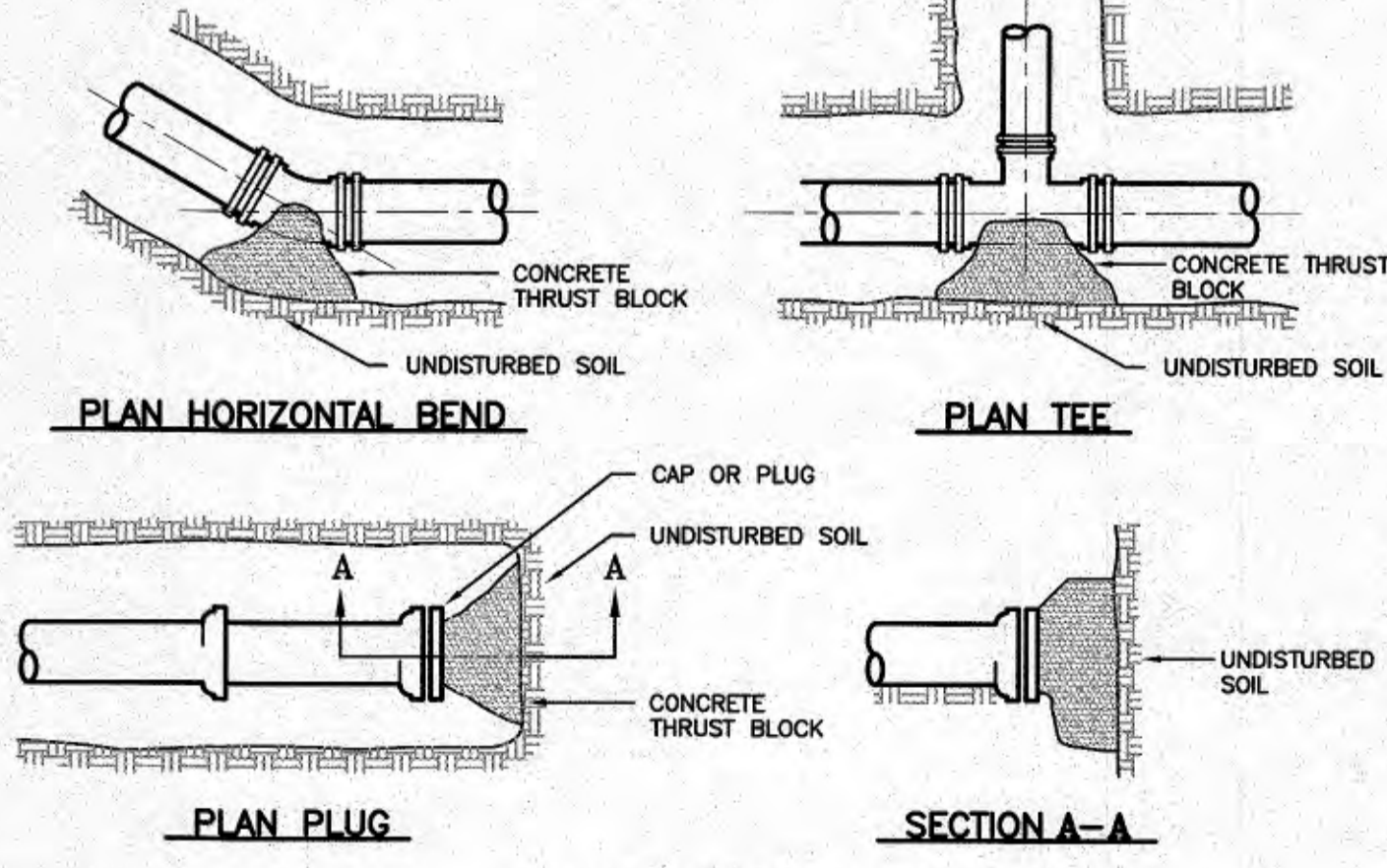
- NOTES:
1. SEE TYP. CROSS SECTION NOTES FOR MATERIAL SPECIFICATION REFERENCES



- NOTES:
1. MIN. 0.091 GA. EXTRUDED ALUMINUM SIGN BLADE W/ HIGH INTENSITY SHEETING (GREEN BACKGROUND AND SILVER COPY)
 2. EACH SIGN SHALL HAVE LEGEND ON BOTH SIDES
 3. POST SHALL HAVE A MINIMUM 0.64" WALL THICKNESS AND A MIN. WEIGHT OF 1.64 LBS/FT
 4. STREET SIGNS SHALL BE MAINTAINED BY THE DEVELOPER UNTIL THE WAYS ARE ACCEPTED BY THE TOWN. SIGNS TO BE INSTALLED FOLLOWING THE PLACEMENT OF THE ROADWAY PAVEMENT BASE COURSE.
 5. SUBMIT SHOP DRAWINGS ON SIGN COMPONENTS TO THE D.P.W. PRIOR TO FABRICATION & DELIVERY TO THE SITE.



- NOTE:
- HYDRANT EXTENSIONS SHALL BE INSTALLED AT ALL LOCATIONS DESIGNATED BY THE ENGINEER.



CONCRETE ANCHOR REQUIREMENTS	
BASED ON TEST PRESSURE = 150 SOIL BEARING CAPACITY = 2000 P.S.I.	
FITTING	MIN. BEARING AREA
8"x8" TAP	10.0 SQ.FT.
8"x6" TEE	5.0 SQ.FT.
12"x6" TEE	3.0 SQ.FT.
8" 1/4 BEND	8.0 SQ.FT.
8" 1/8 BEND	8.0 SQ.FT.
8" CAP	6.0 SQ.FT.
6" CAP	3.0 SQ.FT.

WAREHAM PLANNING BOARD APPROVAL UNDER SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED: _____
DATE ENDORSED: _____

I HEREBY CERTIFY THAT 20 DAYS HAVE ELAPSED SINCE THE NOTICE OF APPROVAL FROM THE PLANNING BOARD WAS RECEIVED AND RECORDED AND NO NOTICE OF APPEAL HAS BEEN FILED IN THIS OFFICE.

TOWN CLERK, WAREHAM, MA DATE _____

FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS
11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPANSETT, MA 02739
TEL: (508) 758-2749
FAX: (508) 758-2849

Revisions			
No.	REVISION PER PEER REVIEW COMMENTS	Date	Appr.
1			

Date: 10/7/2021

Scale: AS NOTED

Drawn By: RMS
Designed By: KJM
Checked By: RRR

ISSUED FOR: PERMITTING

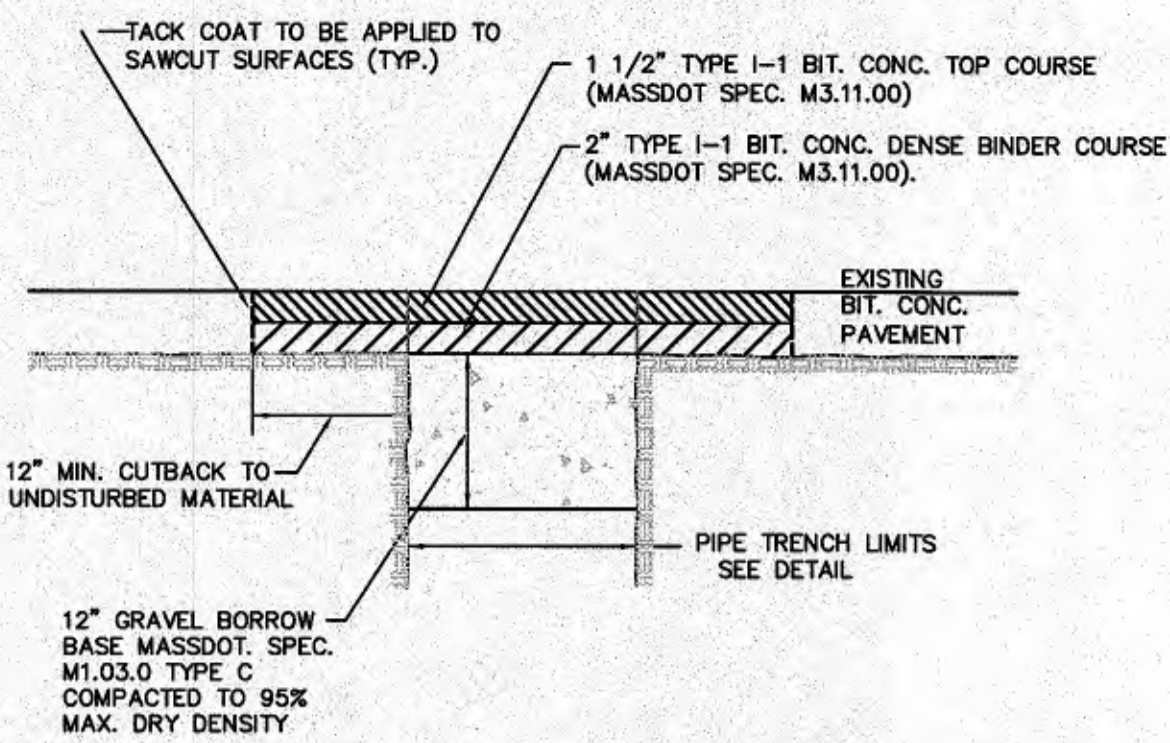


DEFINITIVE SUBDIVISION PLAN OF LAND
SHELL POINT PLACE
DAVID ANDRADE
69 GREAT NECK ROAD
WAREHAM, MASSACHUSETTS

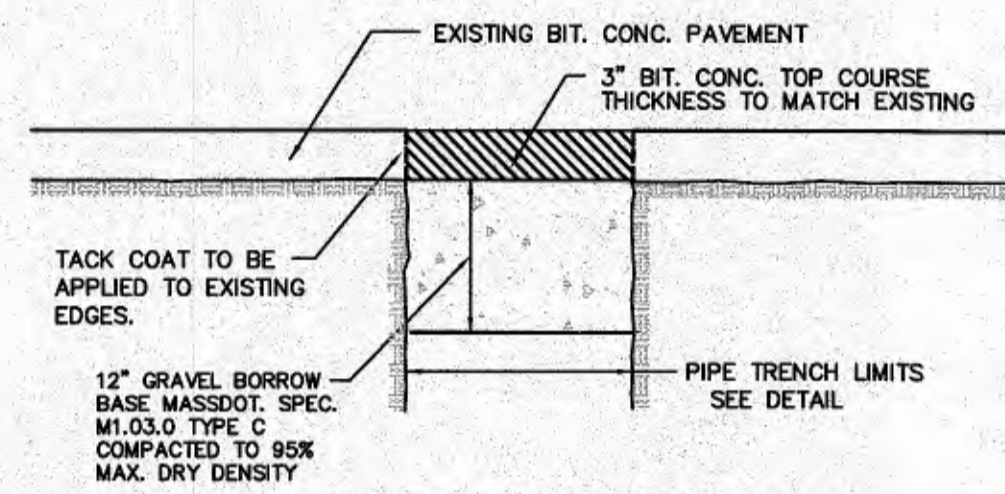
Drawing Title: DETAIL SHEET

Project No. 2443 Sheet 7 OF 8

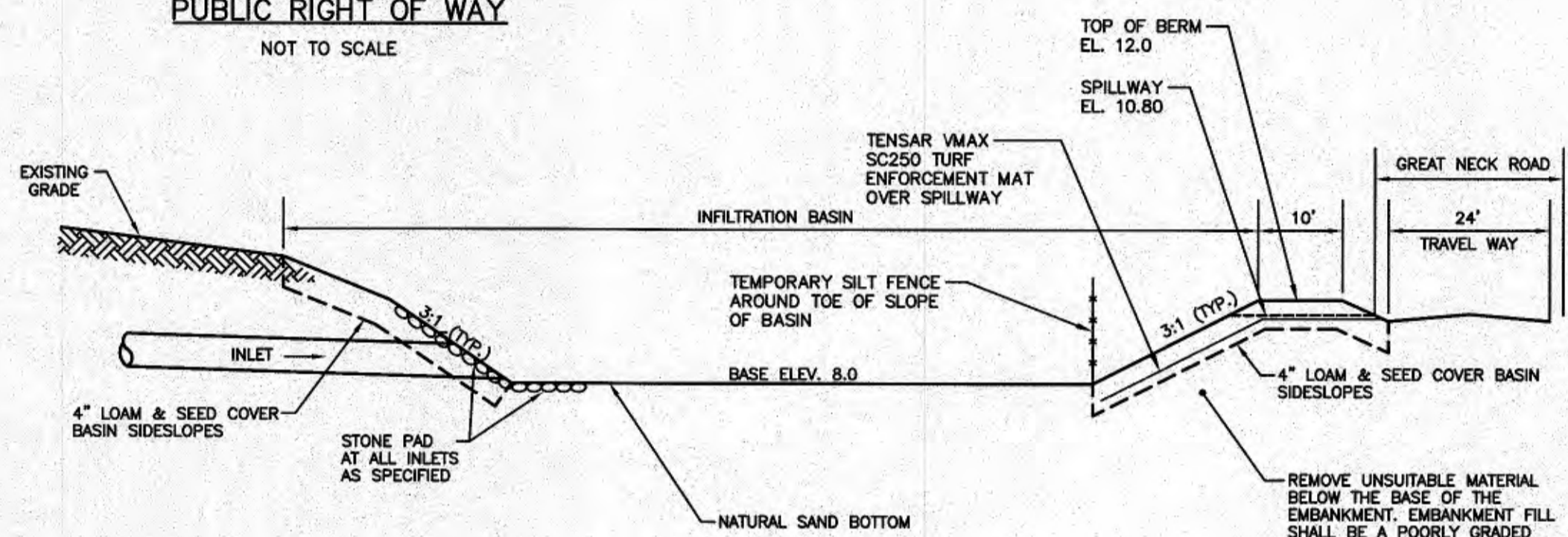
D-1



PERMANENT BITUMINOUS CONCRETE PAVEMENT PUBLIC RIGHT OF WAY
NOT TO SCALE

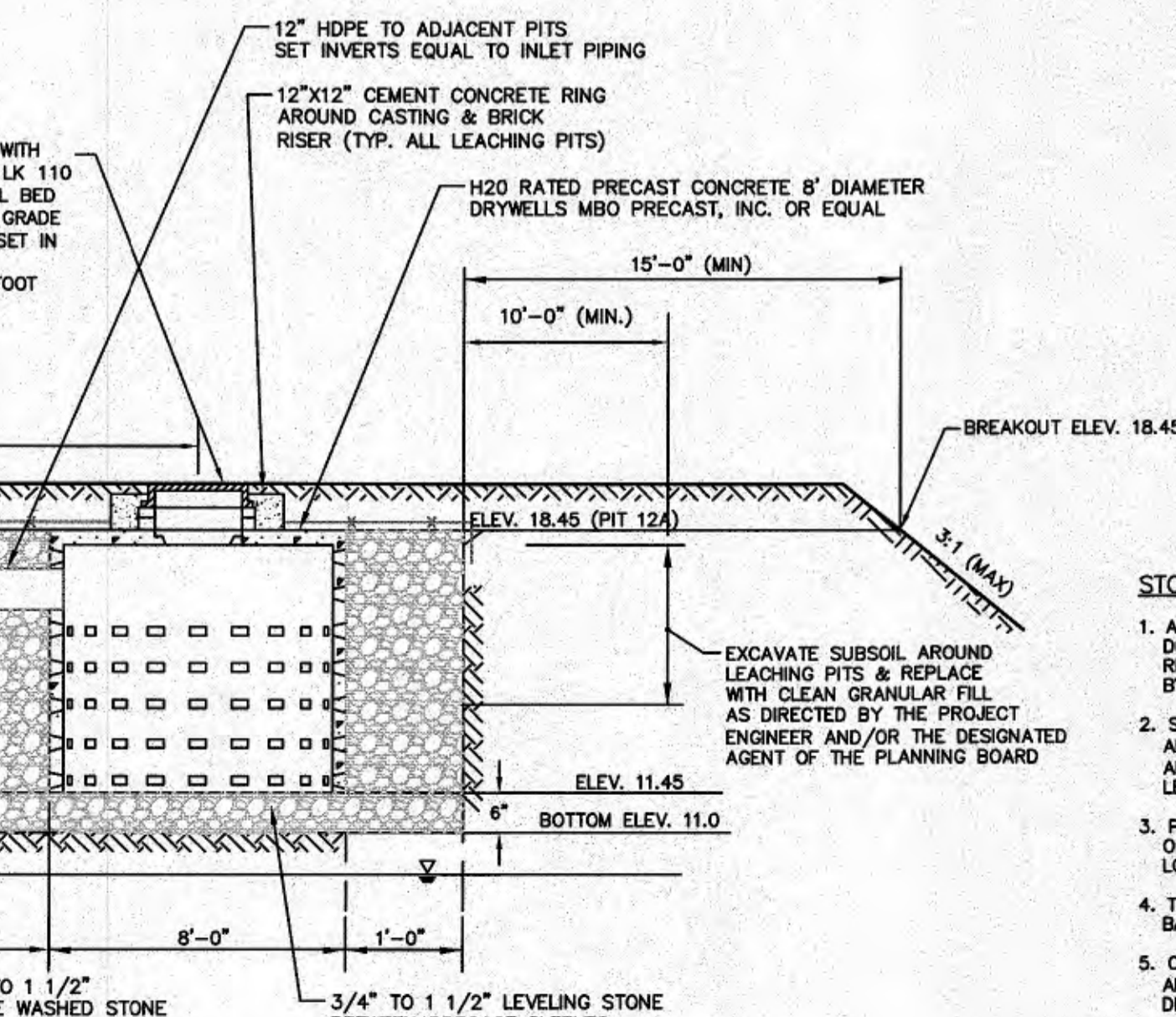


TEMPORARY PAVEMENT PUBLIC RIGHT OF WAY
NOT TO SCALE

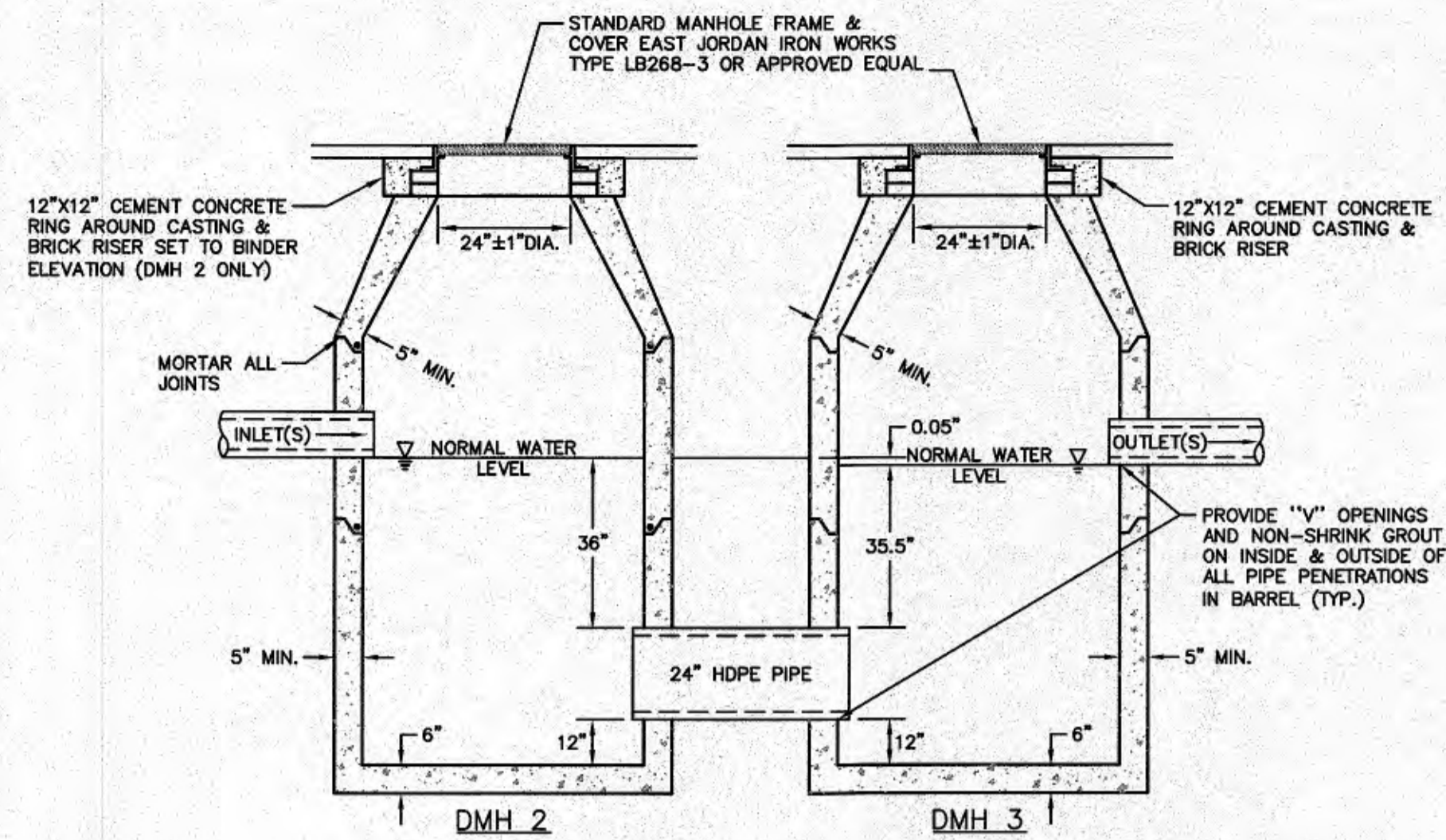


INFILTRATION BASIN #1 SECTION
NOT TO SCALE

- NOTES:
- STONE FOR PIPE ENDS SHALL CONFORM TO MASSDOT SPECIFICATION M2.02.3.
 - SEEDING SHALL BE A EROSION SEED MIX CONFORMING TO MASSDOT SPEC. M6.03.10 APPLIED AT A MINIMUM RATE OF 4.0 LBS./1,000 S.F. OR AS REQUIRED TO YIELD AT LEAST 80% ESTABLISHED PERMANENT GRASS SPECIES WITH A UNIFORM COUNT OF 100 PLANTS PER SQUARE FOOT.



STORMWATER RECHARGE SYSTEM DETAIL
NOT TO SCALE



OIL/WATER SEPARATOR MANHOLE DMH 2 & 3
NOT TO SCALE

CDS2015-4-C DESIGN NOTES

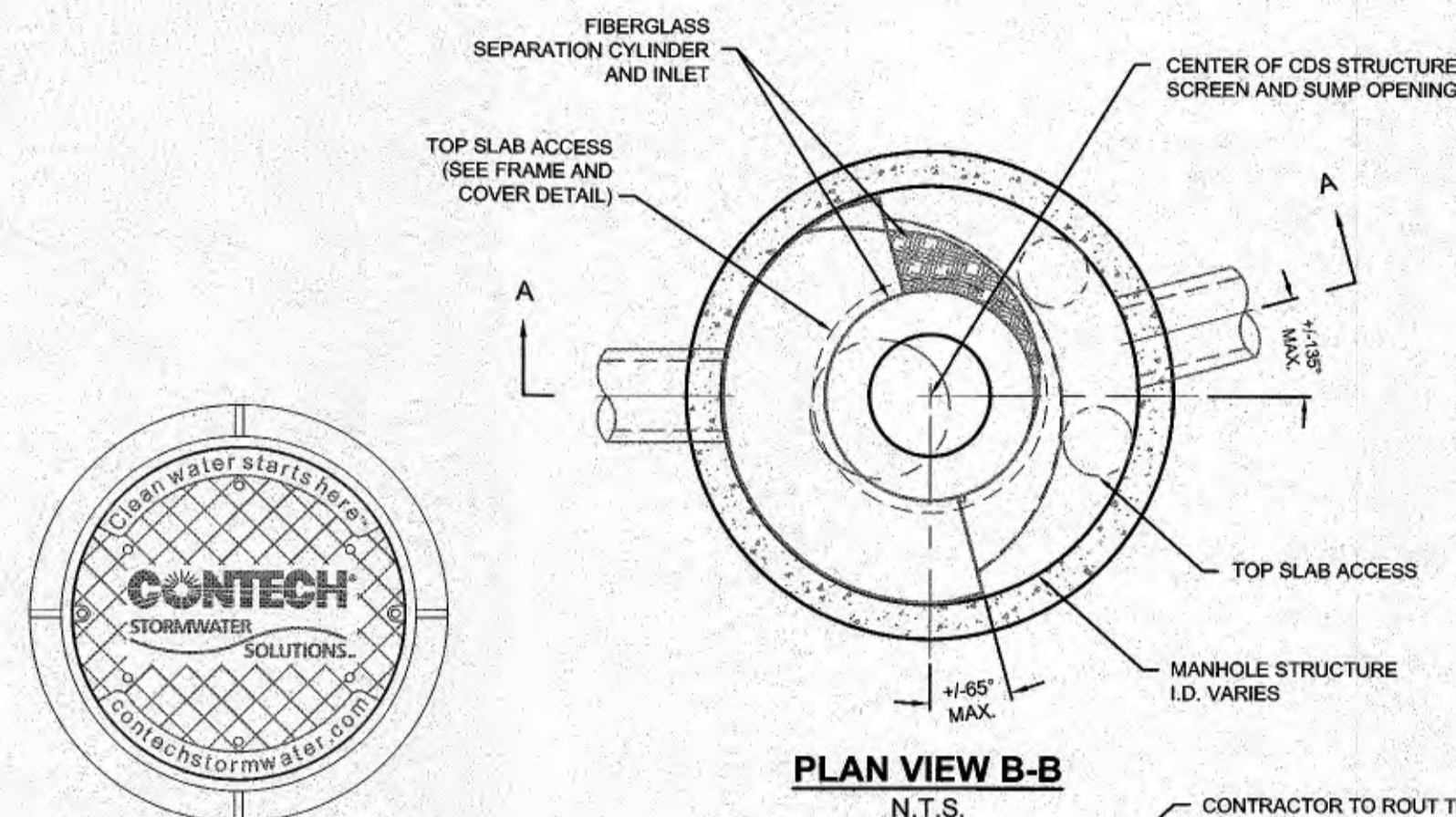
CDS 2015-4-C RATED TREATMENT CAPACITY IS 0.7 CFS (19.8 L/S), OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 10.0 CFS (283 L/S). IF THE SITE CONDITIONS EXCEED 10.0 (283 L/S), AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS2015-4-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

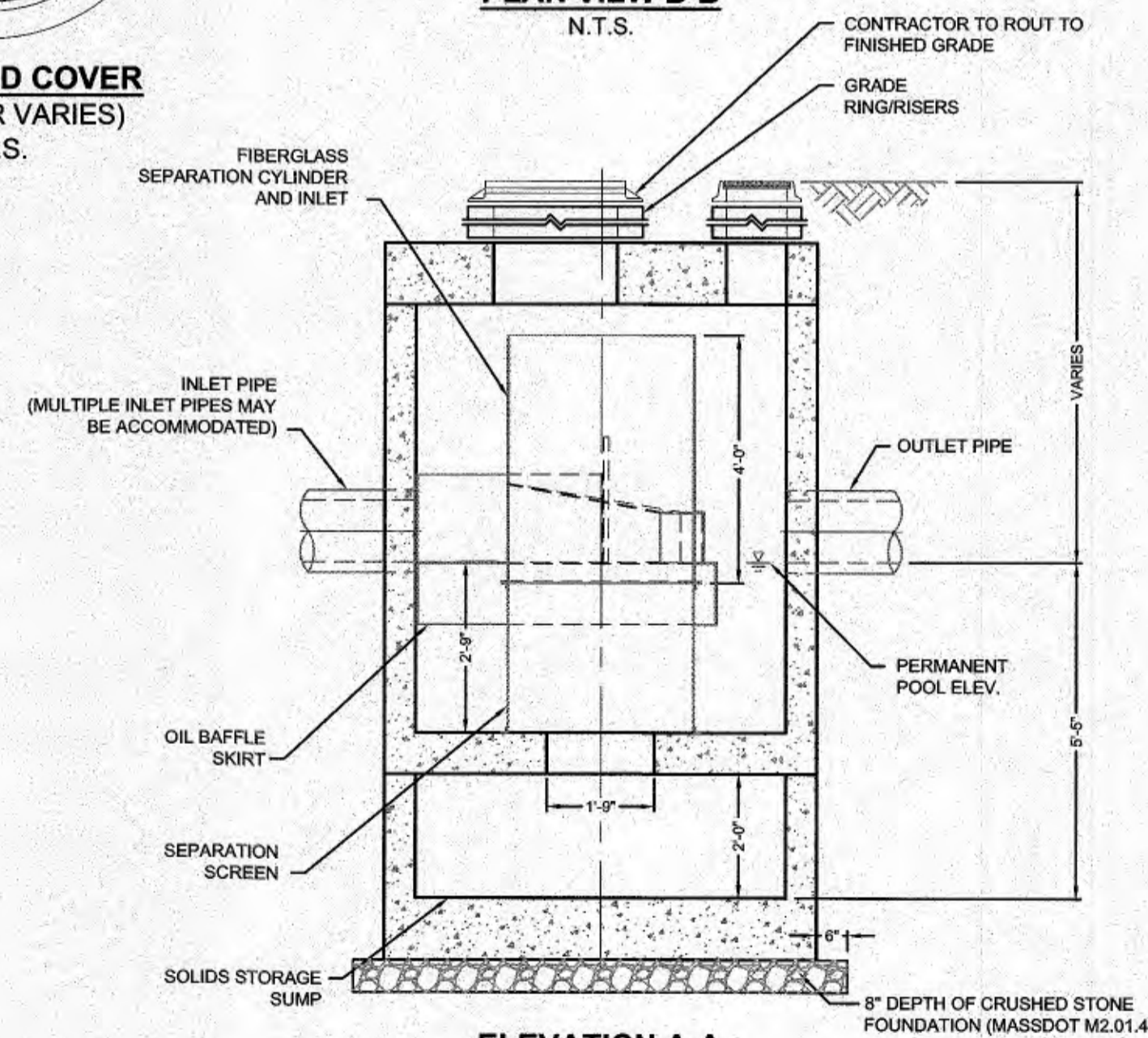
CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NUDEP / NUCAT CONFORMING UNITS

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. WWW.CONTECHES.COM
 - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE SHALL MEET ASHITO H20 AND CASTINGS SHALL MEET H200 (ASHITO M 300) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
 - PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- INSTALLATION NOTES**
- ANY SUB-BASE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

- THE WATER QUALITY INLETS SHOWN PROVIDE THE TREATMENT LEVEL AND REMOVAL EFFICIENCY RATES LISTED IN THE STORMWATER REPORT.
- THE UNIT MODEL, SIZE, LOCATION, CONFIGURATION, AND MANUFACTURER MAY VARY BUT WILL, IN ALL CASES, PROVIDE THE REMOVAL EFFICIENCIES ESTIMATED IN THE STORMWATER REPORT.



FRAME AND COVER (DIAMETER VARIES)
N.T.S.



ELEVATION A-A
N.T.S.
WATER QUALITY INLET
N.T.S.

STORMWATER RECHARGE SYSTEM

- ALL UNSUITABLE MATERIAL FOUND WITHIN THE LEACHING SYSTEM AREA MUST BE REMOVED DOWN TO A 4 FOOT MINIMUM THICKNESS LAYER OF NATURALLY OCCURRING SOIL WHICH IS REPRESENTATIVE OF THE SOIL TYPE WHERE THE SOIL LOGS WERE TAKEN OR AS DIRECTED BY THE PROJECT ENGINEER.
- SUBGRADE EXCAVATION SHALL BE INSPECTED AND APPROVED BY THE PROJECT ENGINEER AND THE PLANNING BOARD'S DESIGNATED AGENT PRIOR TO THE PLACEMENT OF ANY FILL AND/OR LEACHING SYSTEM COMPONENTS. PRECAST UNITS SHALL BE INSTALLED ON A LEVEL STABLE BASE.
- PERCOLATION TESTS AND TEST PIT LOGS ARE ONLY INDICATIVE OF THE SOIL CONDITIONS OBSERVED AT THEIR LOCATION. SHOULD SOIL CONDITIONS BE FOUND DIFFERENT AT OTHER LOCATIONS WITHIN THE LEACHING AREA, THE PROJECT ENGINEER MUST BE CONSULTED.
- THE PROJECT ENGINEER SHALL INSPECT THE INSTALLED FACILITIES IN PLACE PRIOR TO BACKFILLING.
- CLEAN GRANULAR FILL AROUND THE LEACHING AREA SHALL CONFORM TO 310 CMR 15.255 AND SHALL BE APPROVED BY THE PROJECT ENGINEER AND THE PLANNING BOARD'S DESIGNATED AGENT PRIOR TO PLACEMENT.
- AGGREGATE FILL AROUND THE PRECAST UNITS SHALL CONFORM TO 310 CMR 15.247 AND SHALL BE APPROVED BY THE PROJECT ENGINEER AND THE PLANNING BOARD'S DESIGNATED AGENT PRIOR TO PLACEMENT.

WAREHAM PLANNING BOARD
APPROVAL UNDER SUBDIVISION
CONTROL LAW IS REQUIRED

DATE APPROVED: _____
DATE ENDORSED: _____

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TOWN CLERK, WAREHAM, MA DATE

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Revisions

No.	Description	Date	Appvd.
1	REVISE PER PEER REVIEW COMMENTS	2/2/2022	KJM

Date: 10/7/2021
Scale: AS NOTED
Drawn By: RMS
Designed By: KJM
Checked By: RRR
Issued For: PERMITTING



DEFINITIVE SUBDIVISION PLAN OF LAND
SHELL POINT PLACE
DAVID ANDRADE
69 GREAT NECK ROAD
WAREHAM, MASSACHUSETTS

Drawing Title: **DETAIL SHEET**

Project No. 2443	Sheet 8 OF 8
Sheet No. D-2	