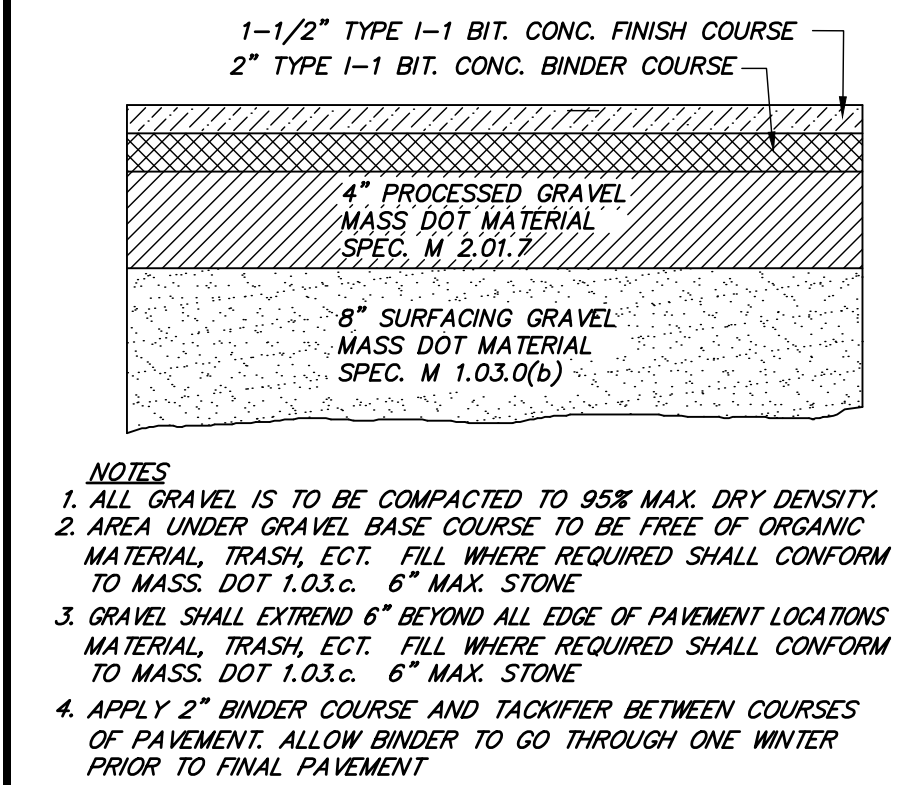
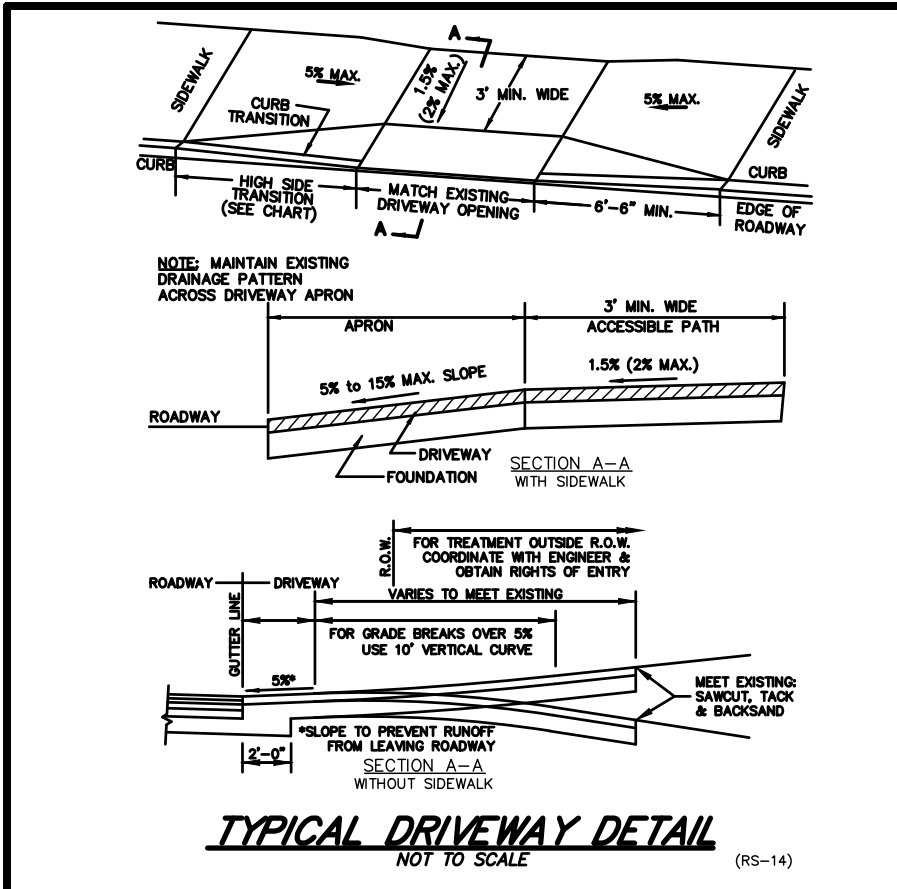




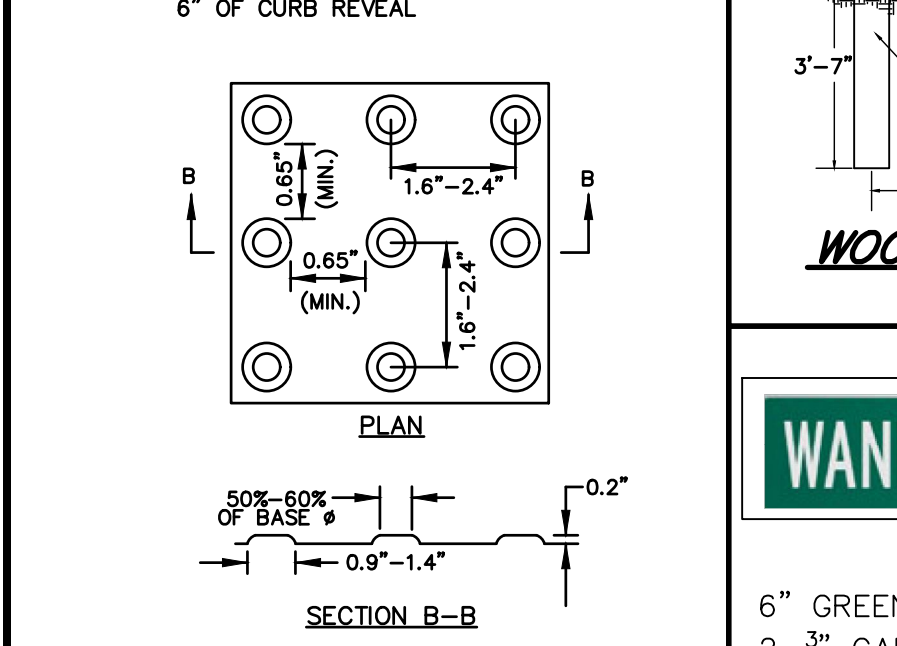
PAVEMENT DETAIL
NOT TO SCALE

- NOTES:**
- ALL RAMPS TO BE CONSTRUCTED OF CEMENT CONCRETE.
 - ALL RAMPS TO HAVE DETECTABLE WARNING PANELS CONFORMING TO RS-13.
 - ALL RAMPS TO BE INSTALLED BASED ON THE LOCATION SHOWN ON THE PLANS.

TABLE OF TRANSITION LENGTHS

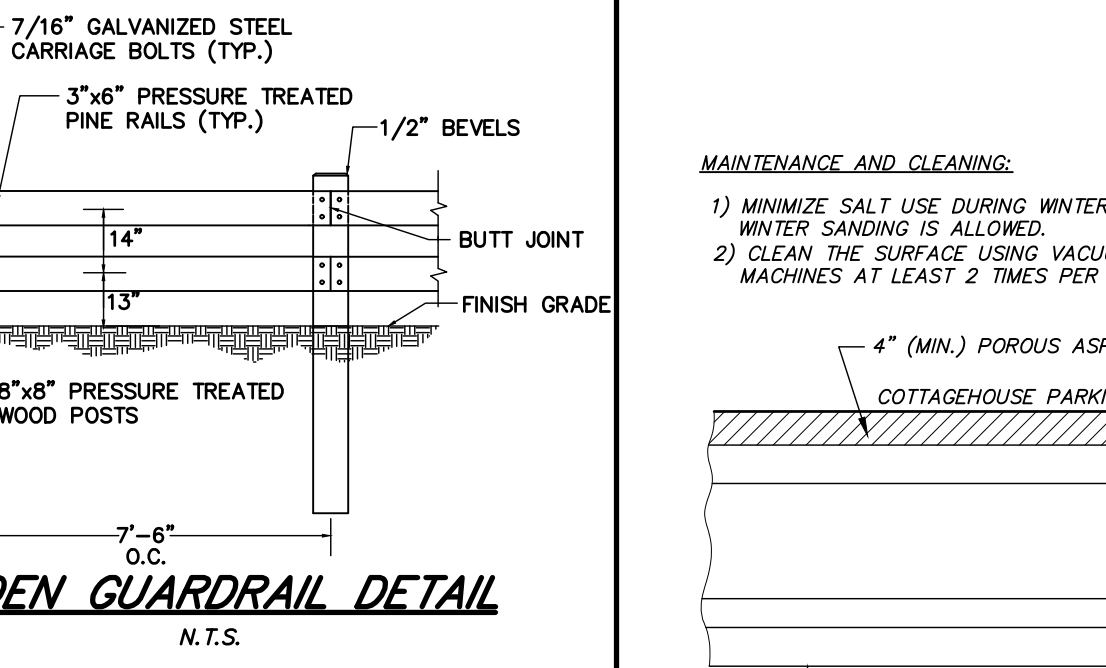
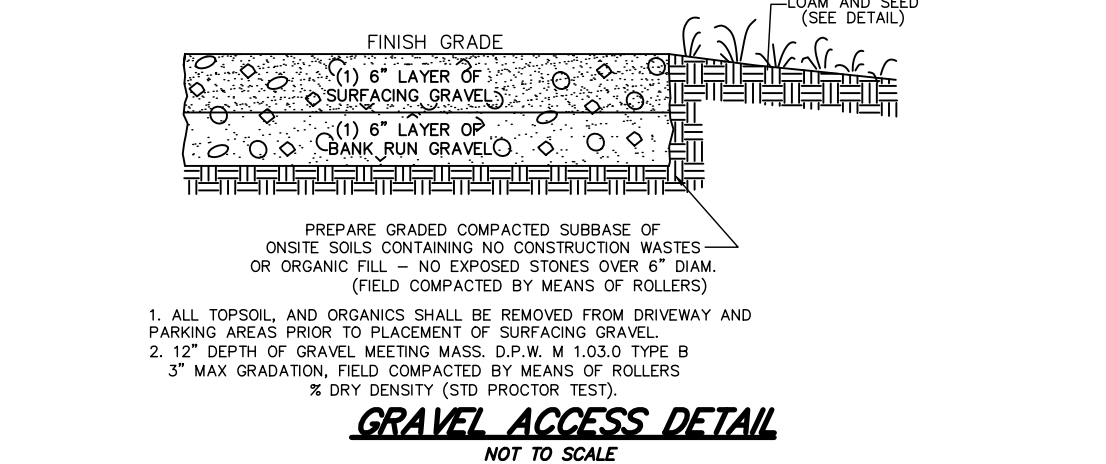
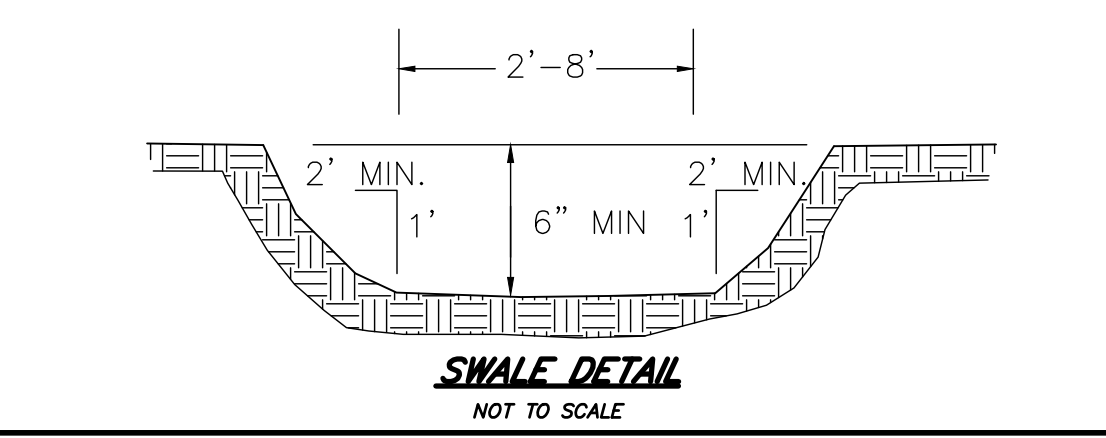
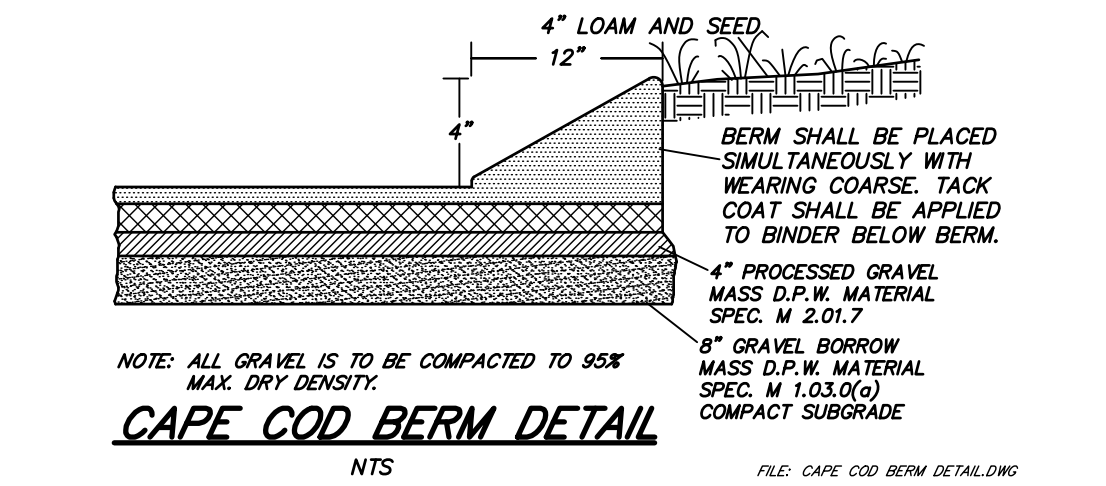
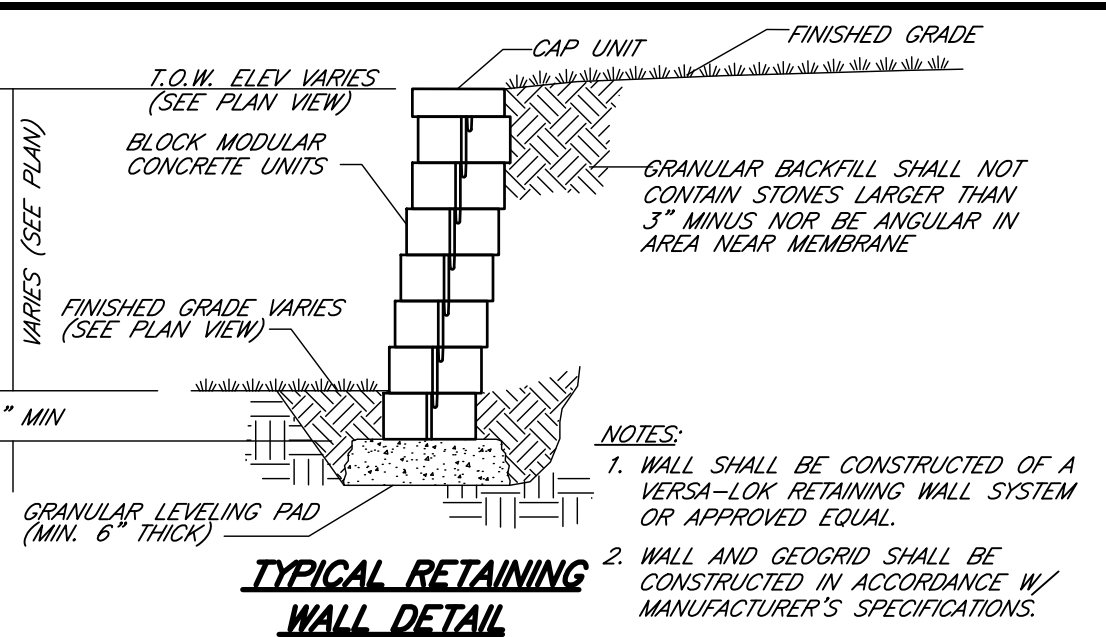
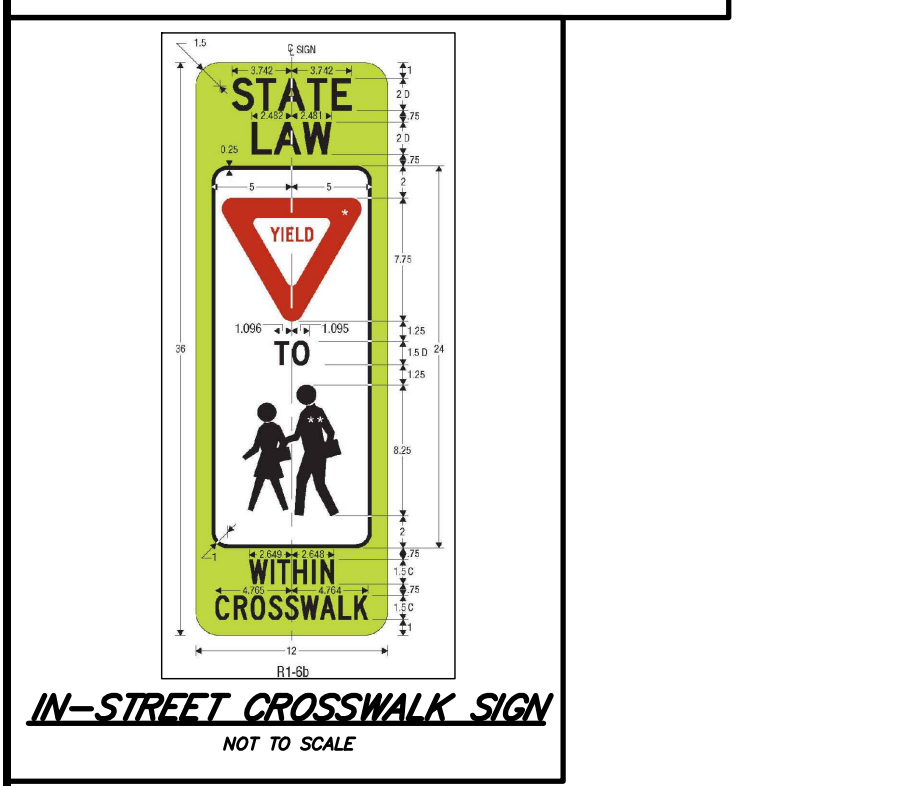
ROADWAY PROFILE GRADE (%)	HIGH SIDE TRANSITION LENGTH
0	6'-6"
>0-1	7'-8"
>1-2	9'-0"
>2-3	11'-0"
>3-4	14'-0"
>4	15'-0" (MAX.)

* BASED ON A DESIGN SLOPE OF 7.5% AND 6" OF CURB REVEAL

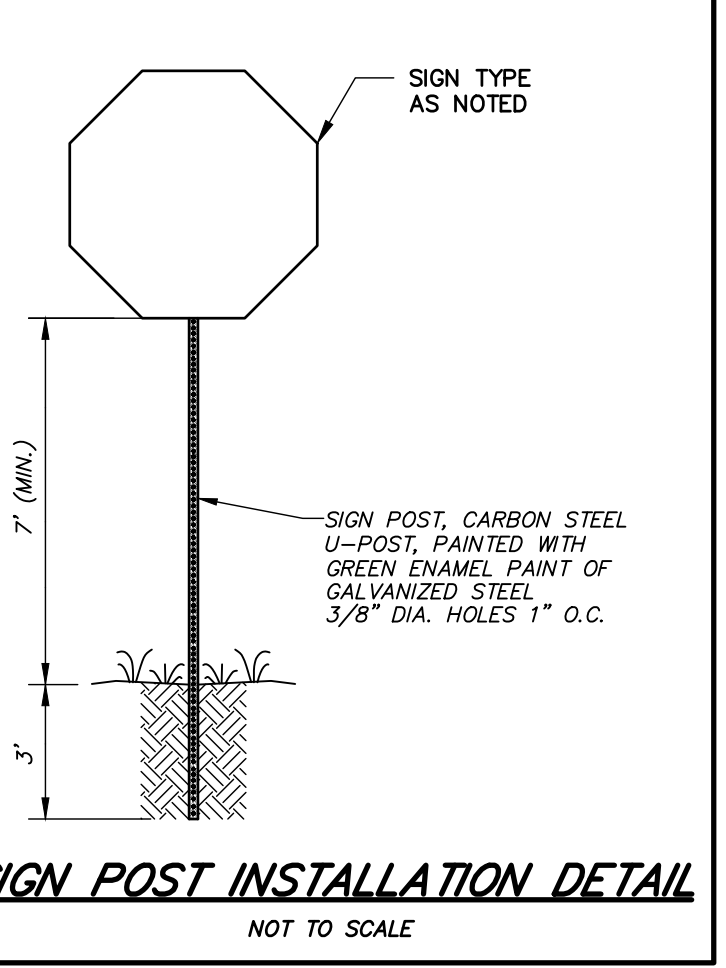
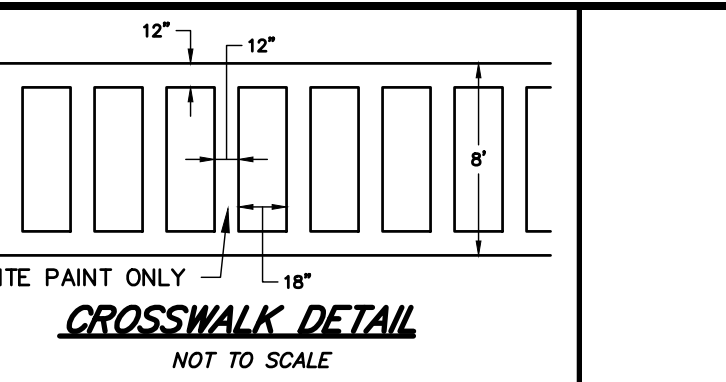
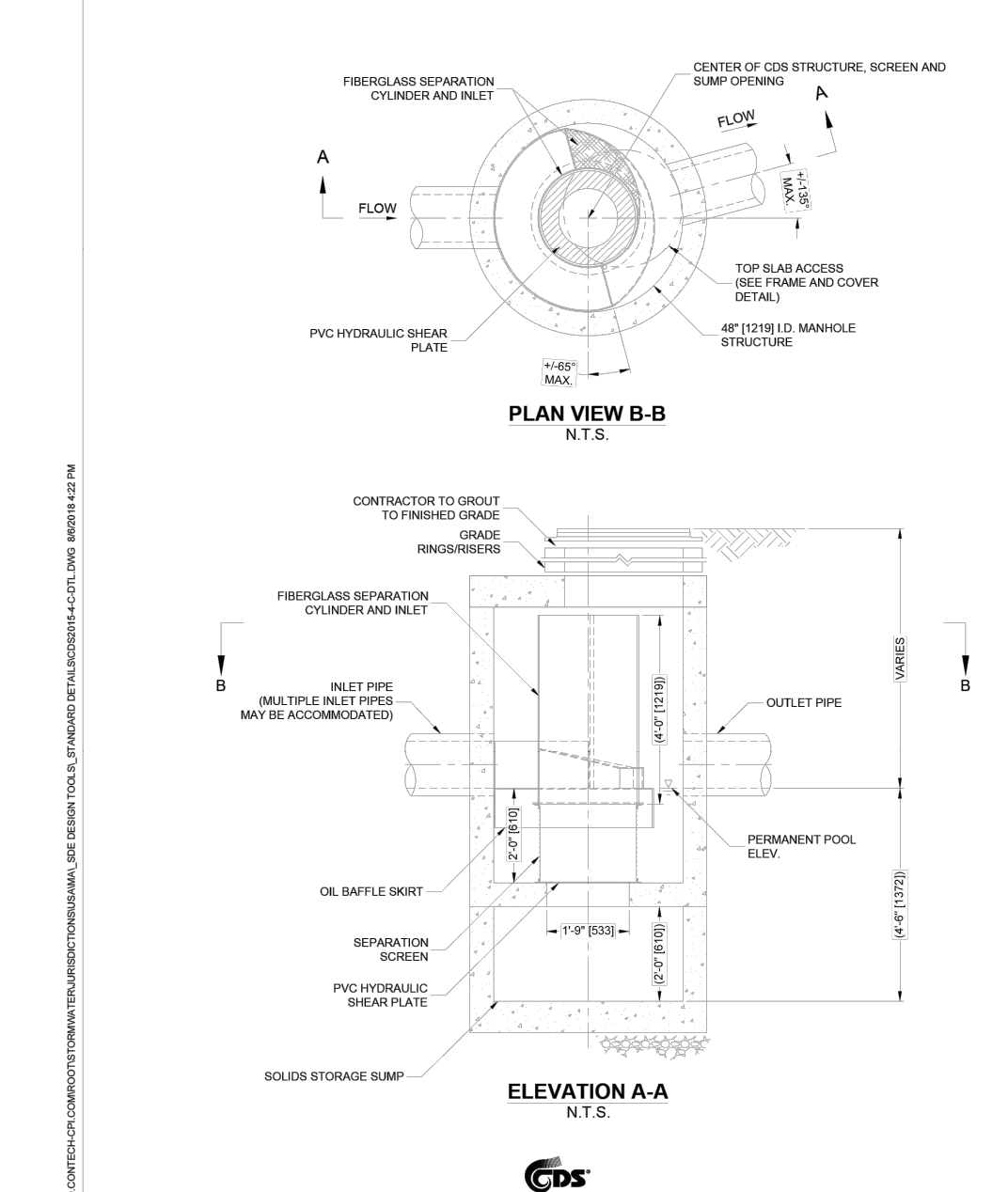
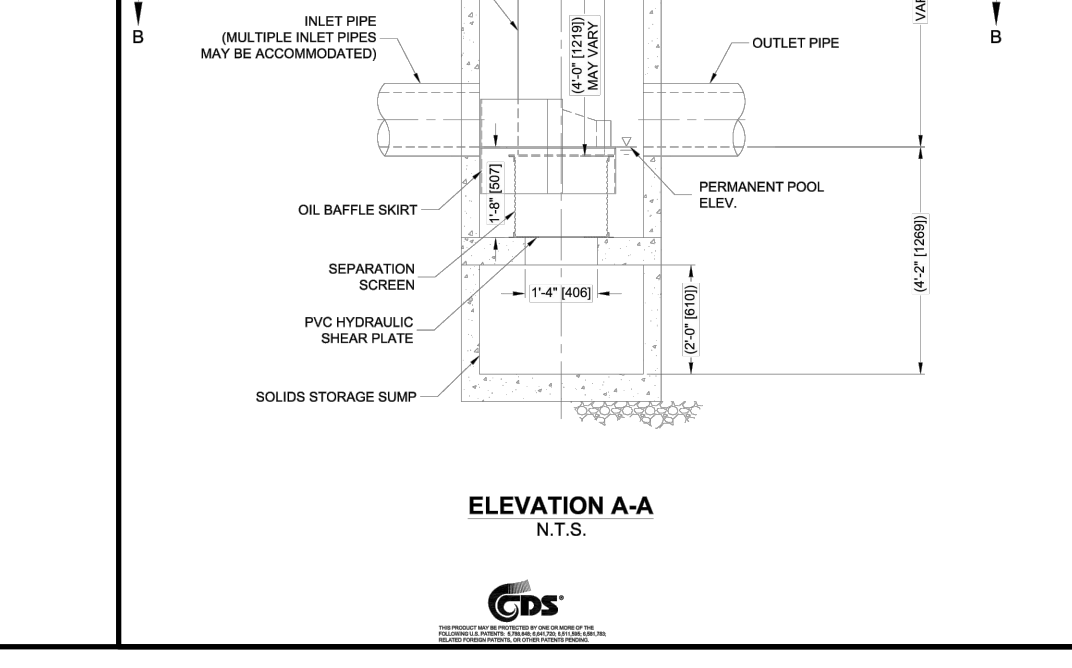
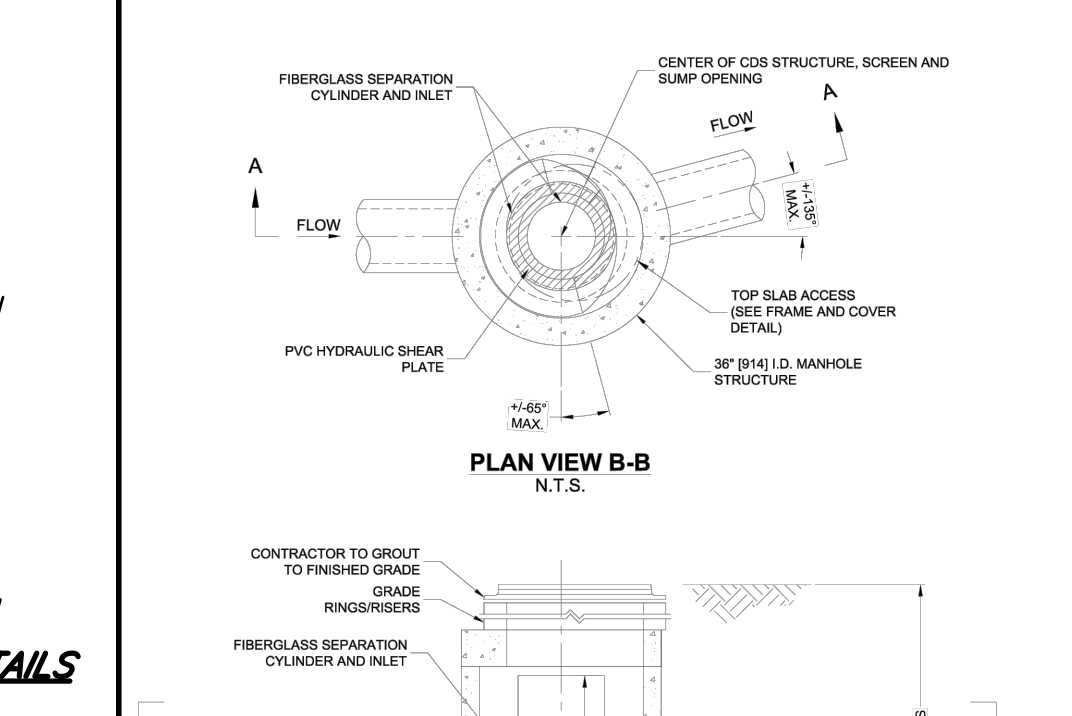
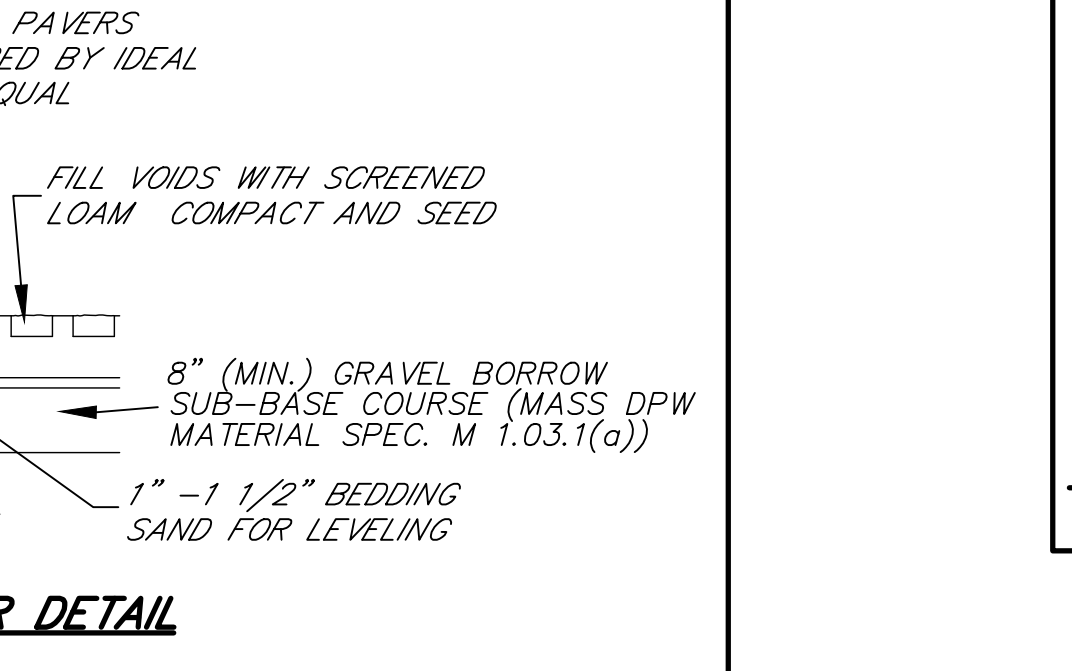
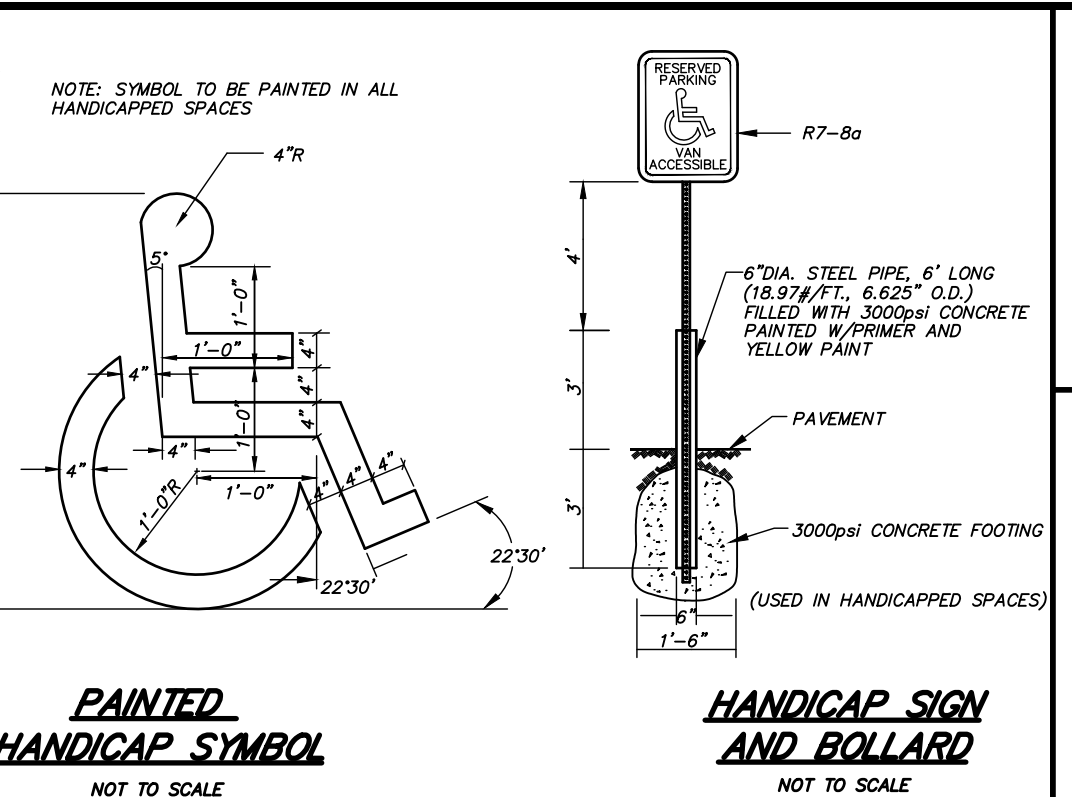
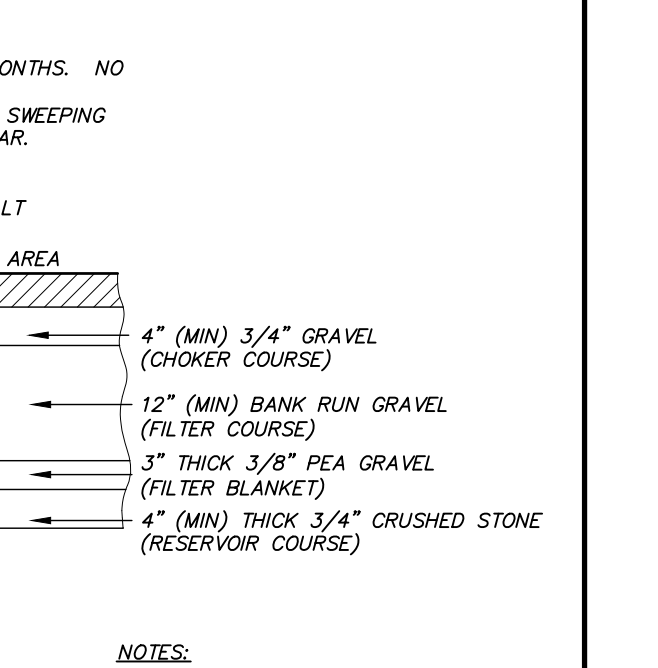
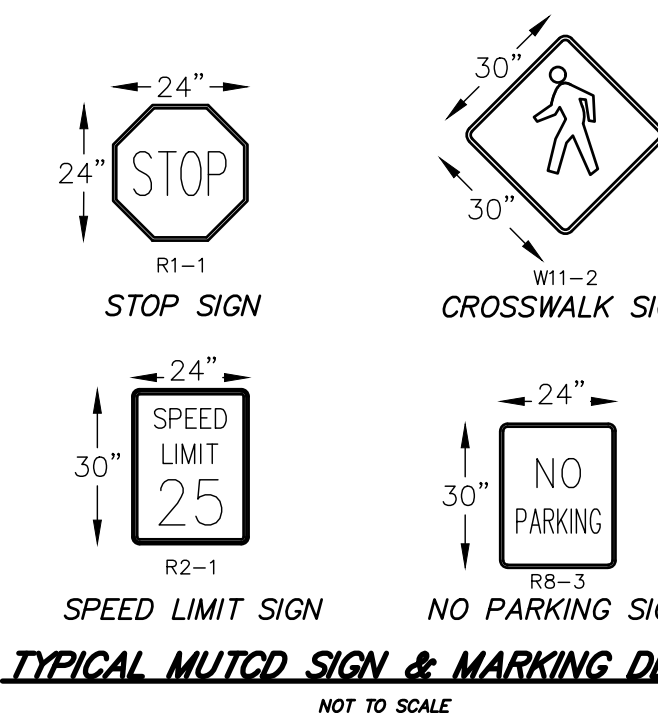
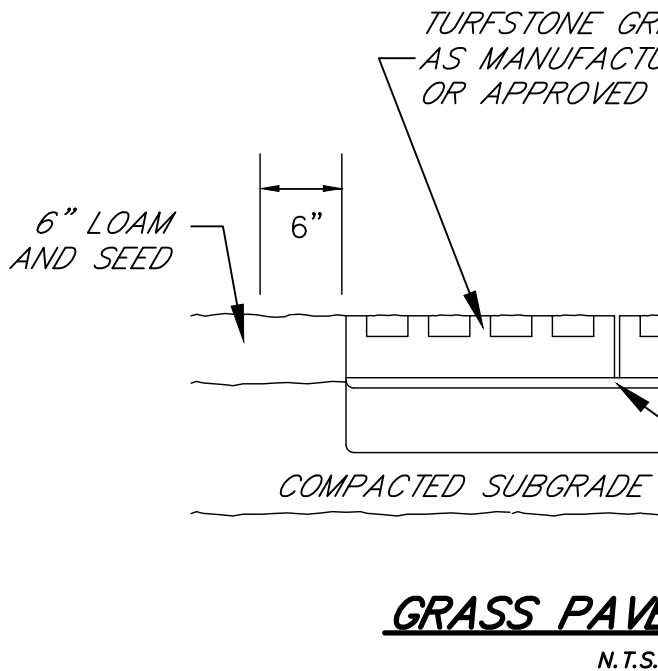
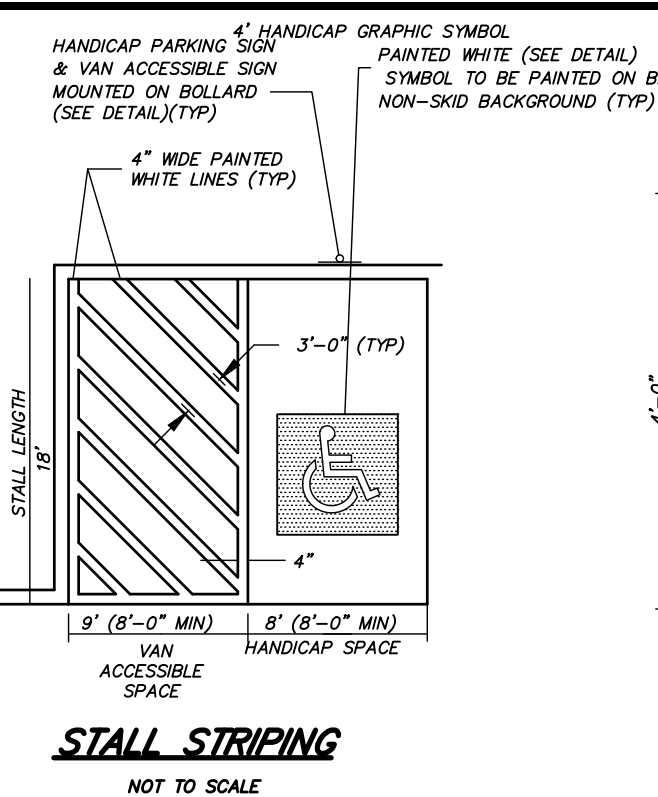


- NOTE:**
- WARNING SURFACE SHALL CONTRAST VISUALLY WITH ORANGE COLOR ADJACENT WALKING SURFACES
 - DETECTABLE WARNING PANEL TO BE CAST IRON.

DETECTABLE WARNING PANEL AND WHEELCHAIR RAMP DETAIL
NOT TO SCALE



WANDERING POND WAY



SIGN POST INSTALLATION DETAIL
NOT TO SCALE



- GENERAL NOTES**
- ALL UNDERGROUND UTILITIES SHOWN HEREON WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGE INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG-SAFE TELE. NO. (888) 344-7233.
 - UNLESS OTHERWISE SPECIFIED ON THESE PLANS, ALL CONSTRUCTION METHODS AND MATERIALS SHALL COMPLY WITH SPECIFICATIONS OUTLINED IN THE TOWN OF STOW'S SUBDIVISION RULES AND REGULATIONS AND THE TOWN OF STOW'S ACTIVE ADULT NEIGHBORHOOD SPECIAL PERMIT RULES AND REGULATIONS.
 - ALL LIMITS OF WORK SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION OR SITE CLEARING.
 - ALL WATER PIPES, HYDRANTS, GATE VALVES AND OTHER APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF STOW'S SUBDIVISION RULES AND REGULATIONS.
 - ALL STUMPS AND OTHER CONSTRUCTION DEBRIS SHALL BE PROPERLY REMOVED. ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS OR WASTE.
 - ALL DRAIN PIPES SHALL BE ADS N-12 UNLESS OTHERWISE SHOWN.
 - TRANSPORTATION OF FILL, EARTH, OR CONSTRUCTION DEBRIS TO OR FROM THE SITE SHALL BE RESTRICTED TO DAYTIME HOURS (9 AM TO 4 PM) MONDAY THROUGH FRIDAY.
 - TURNING RADIUS HAS BEEN DESIGNED TO ACCOMMODATE A SU-30 VEHICLE.
 - ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS OR WASTE.
 - THE DEVELOPER IS RESPONSIBLE FOR CLEAN UP OF ANY SAND, DIRT OR DEBRIS WHICH ERODES FROM THE SITE ONTO FLETCHER COURT OR MAIN STREET AND TO REMOVE SILT OR DEBRIS THAT ENTERS ANY EXISTING DRAINAGE SYSTEM INCLUDING, BUT NOT LIMITED TO, CATCH BASIN SUMPS, PIPE LINES, MANHOLES, AND DITCHES IMMEDIATELY UPON DISCOVERY.
 - LIMITS OF CLEARING SHOWN ON THE PLAN ARE NOT REQUIRED UNDER THE PLANNING BOARD'S APPROVAL. ANY TREE PLANTINGS OR LANDSCAPING SHOWN ON THE PLAN ARE NOT REQUIRED UNDER THE PLANNING BOARD'S APPROVAL EXCEPT TO THE EXTENT REQUIRED UNDER THE RULES.
 - NO PAVING SHALL TAKE PLACE AFTER NOVEMBER 15TH AND THE FINAL COURSE OF PAVEMENT SHALL BE PLACED AFTER THE BINDER HAS BEEN EXPOSED TO ONE WINTER SEASON. ALL PROPOSED PAVED SURFACES SHALL CONSIST OF 3" BITUMINOUS CONCRETE PAVING LAID IN TWO COURSES UNDERLAIN BY 12" OF GRAVEL (SEE PAVEMENT DETAIL).
 - ALL RIP-RAP TO BE 4-6" UNLESS OTHERWISE SPECIFIED.
 - ALL CONSTRUCTION ACTIVITY RELATED TO THIS PLANNING BOARD APPROVAL SHALL BE LIMITED TO THE HOURS OF: 7:00AM-5:00PM, MONDAY-FRIDAY; 8:00AM-5:00PM ON SATURDAYS; SUNDAYS AND HOLIDAYS: NO WORK PERMITTED.
 - THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER A MINIMUM OF 24-HOURS PRIOR TO THE START OF SEWER INSTALLATION. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN ENGINEER REGARDING SEWER PIPE INSPECTION PRIOR TO CONNECTING TO THE EXISTING SEWER SYSTEM. THE PROPOSED LOW PRESSURE SEWER SHALL BE INSPECTED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE PRIOR TO BACKFILL. THE MANUFACTURER OR THEIR REPRESENTATIVE MUST SUBMIT A LETTER TO THE TOWN ENGINEER CERTIFYING THAT THE INSTALLATION HAS BEEN COMPLETED PER DESIGN PRIOR TO TOWN ACCEPTANCE.
 - THE CONTRACTOR SHALL PROVIDE 48-HOUR NOTIFICATION TO THE TOWN ENGINEER AND WASTEWATER TREATMENT PLANT OPERATOR PRIOR TO CONNECTING TO THE EXISTING SEWER IN MAIN STREET.
 - PERMIT SET NOT FOR CONSTRUCTION.

ACTIVE ADULT NEIGHBORHOOD SPECIAL PERMIT UNDER TOWN OF STOW ZONING BYLAW SECTION 5.4 APPROVED BY

STOW PLANNING BOARD

DATE:	
TOWN CLERK	

I, CLERK OF THE TOWN OF STOW, MASSACHUSETTS HEREBY CERTIFY THE NOTICE OF APPROVAL OF THIS PLAN BY THE CARLISLE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

DATE:

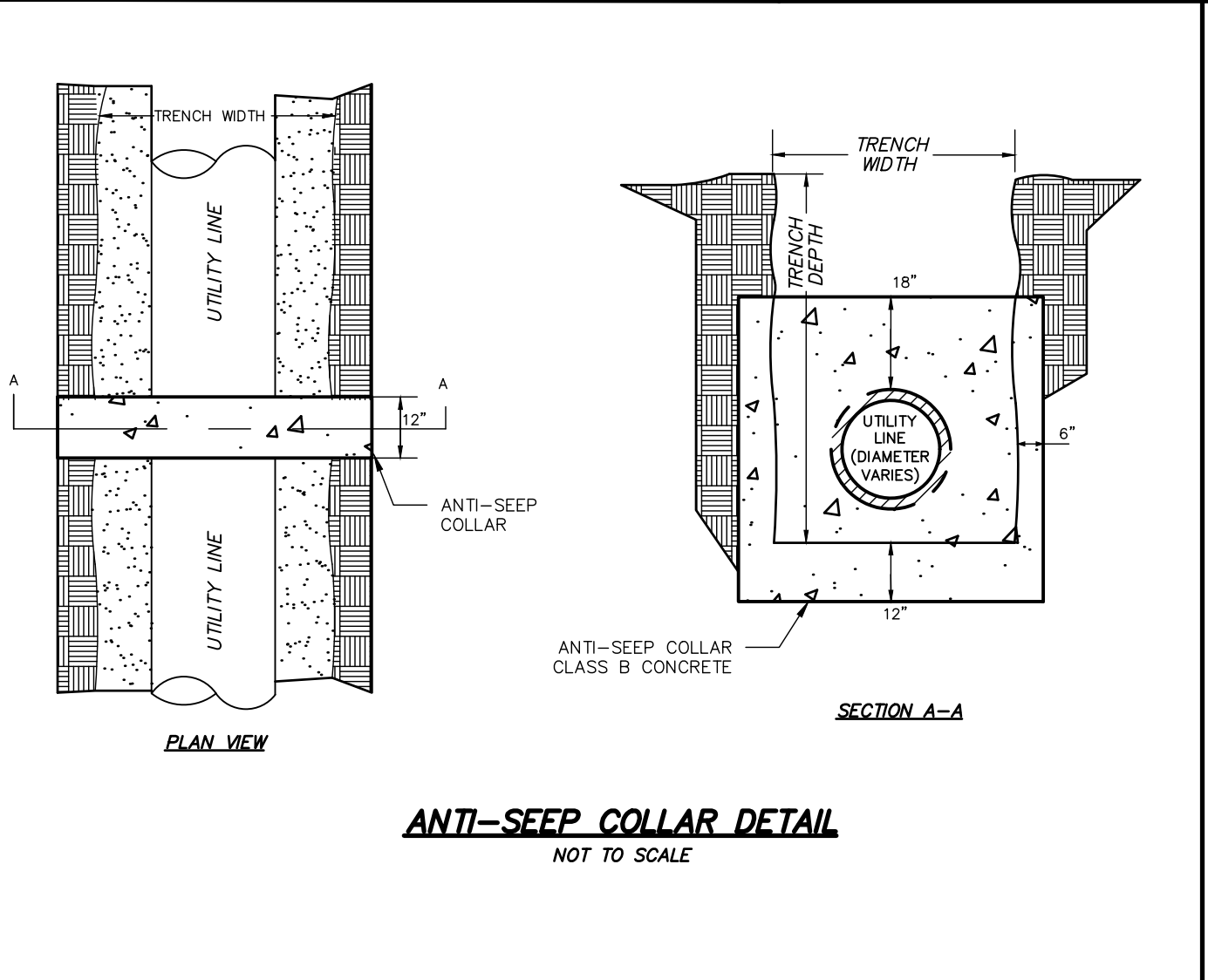
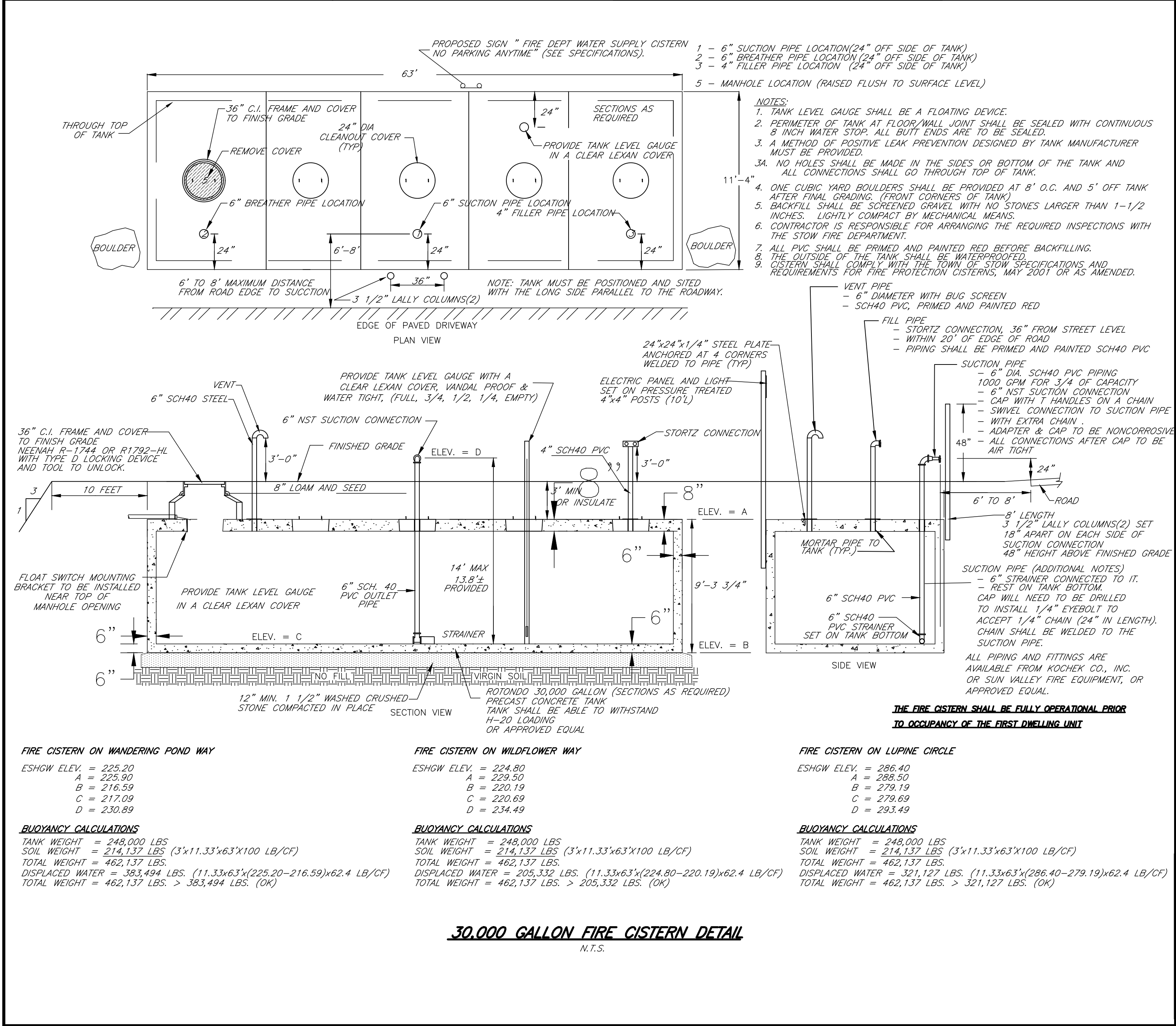
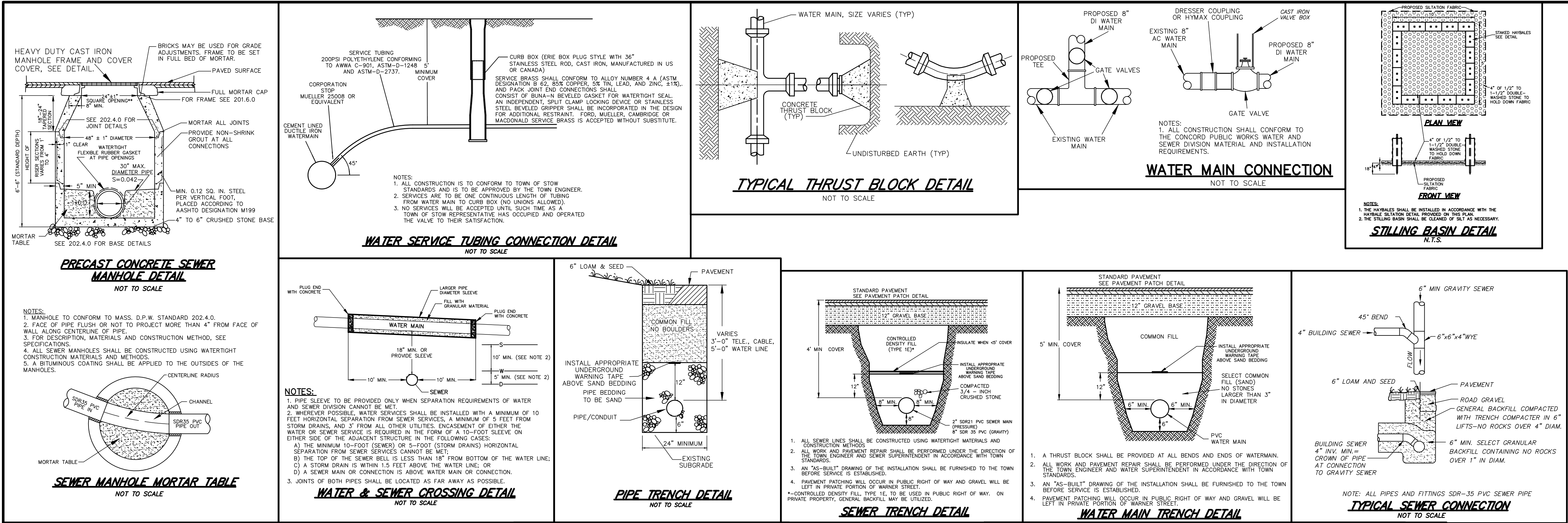
TOWN CLERK

THE COTTAGES AT WANDERING POND
AN
ACTIVE ADULT NEIGHBORHOOD
IN
STOW, MASSACHUSETTS
(MIDDLESEX COUNTY)

DETAILS

FOR: THE COTTAGES AT WANDERING POND REALTY TRUST
SCALE: NTS
JUNE 30, 2022
REVISED: OCTOBER 26, 2022
REVISED: JULY 6, 2023

STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING



ACTIVE ADULT NEIGHBORHOOD SPECIAL PERMIT UNDER TOWN OF STOW ZONING BYLAW SECTION 5.4 APPROVED BY

STOW PLANNING BOARD

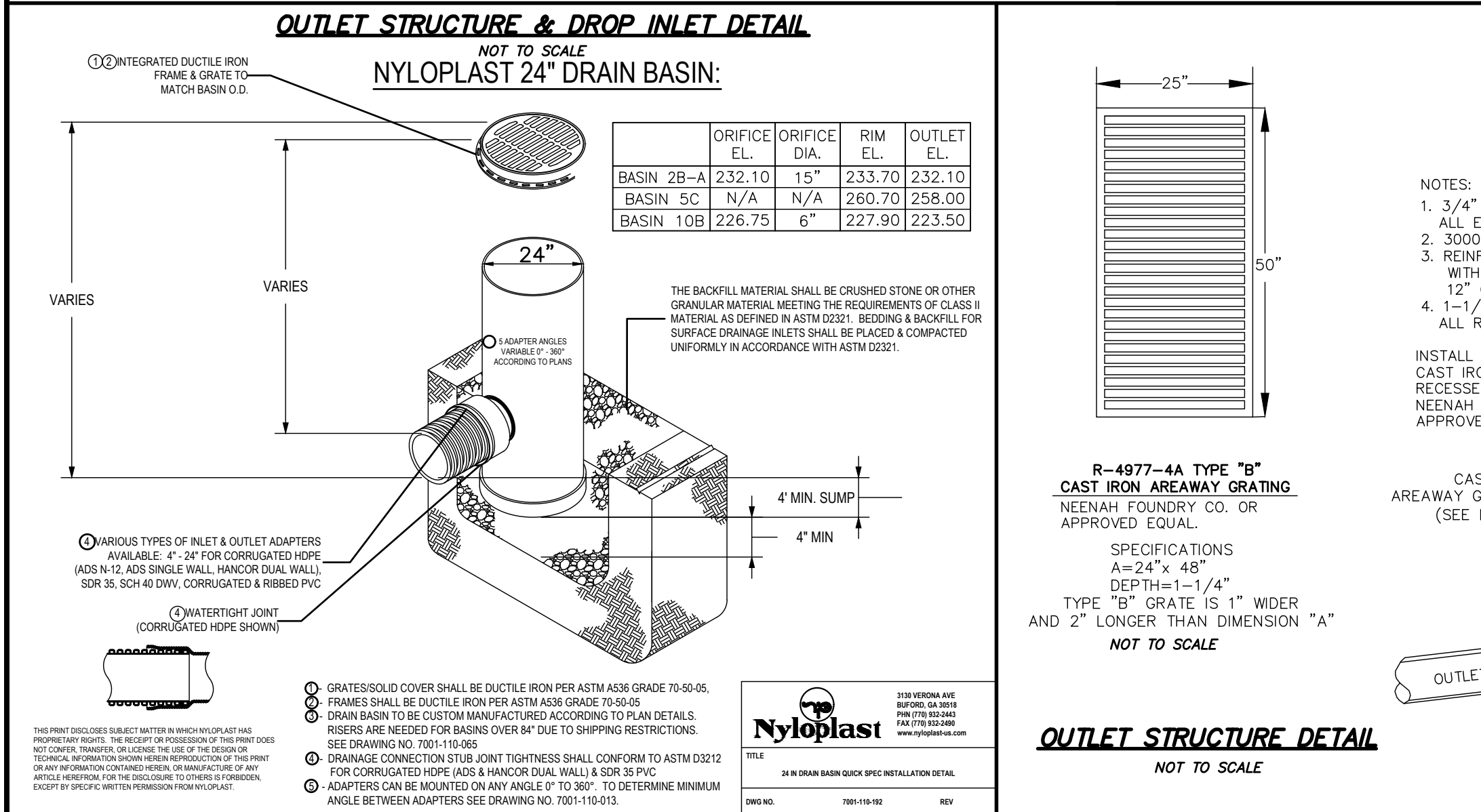
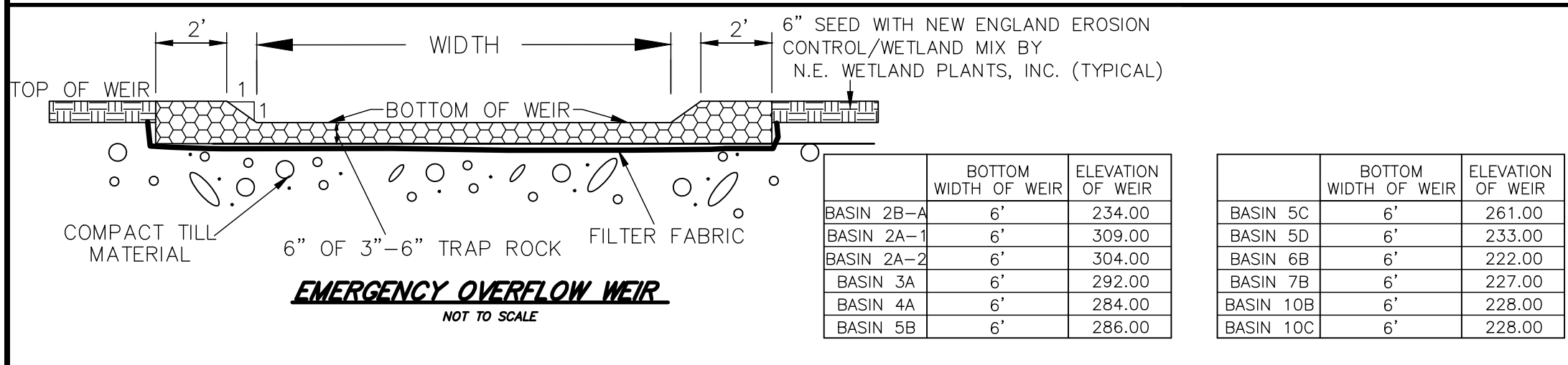
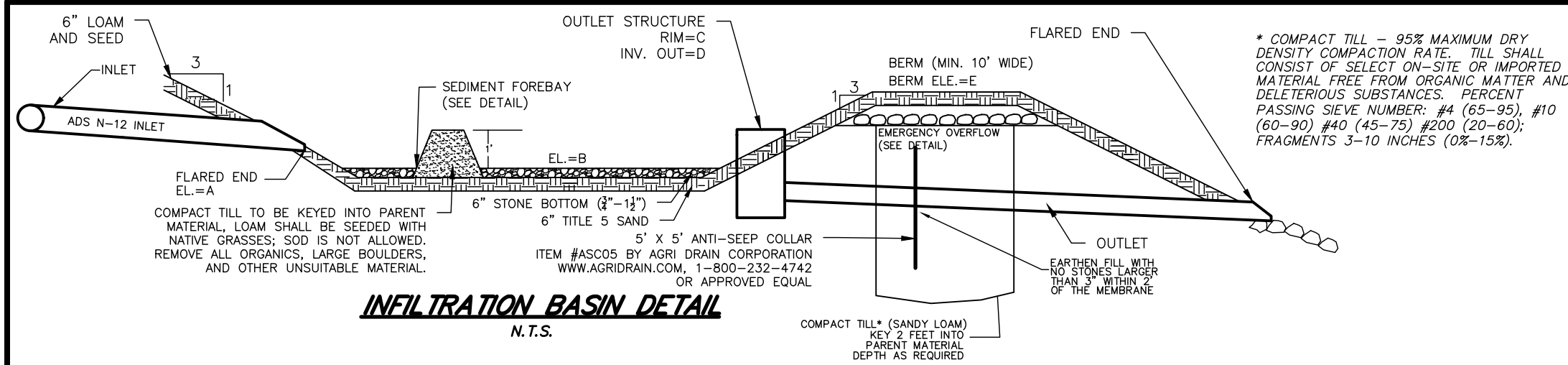
DATE:

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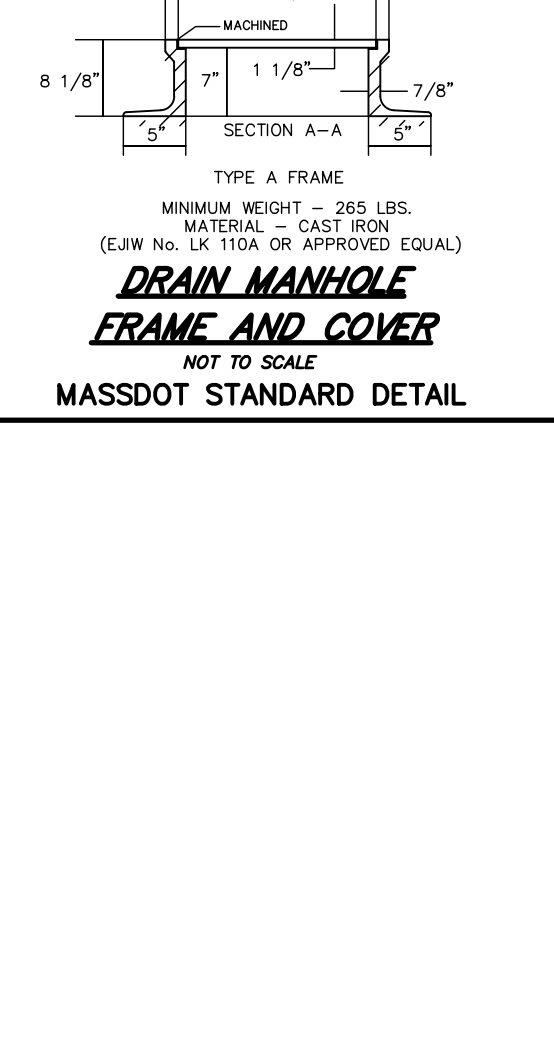
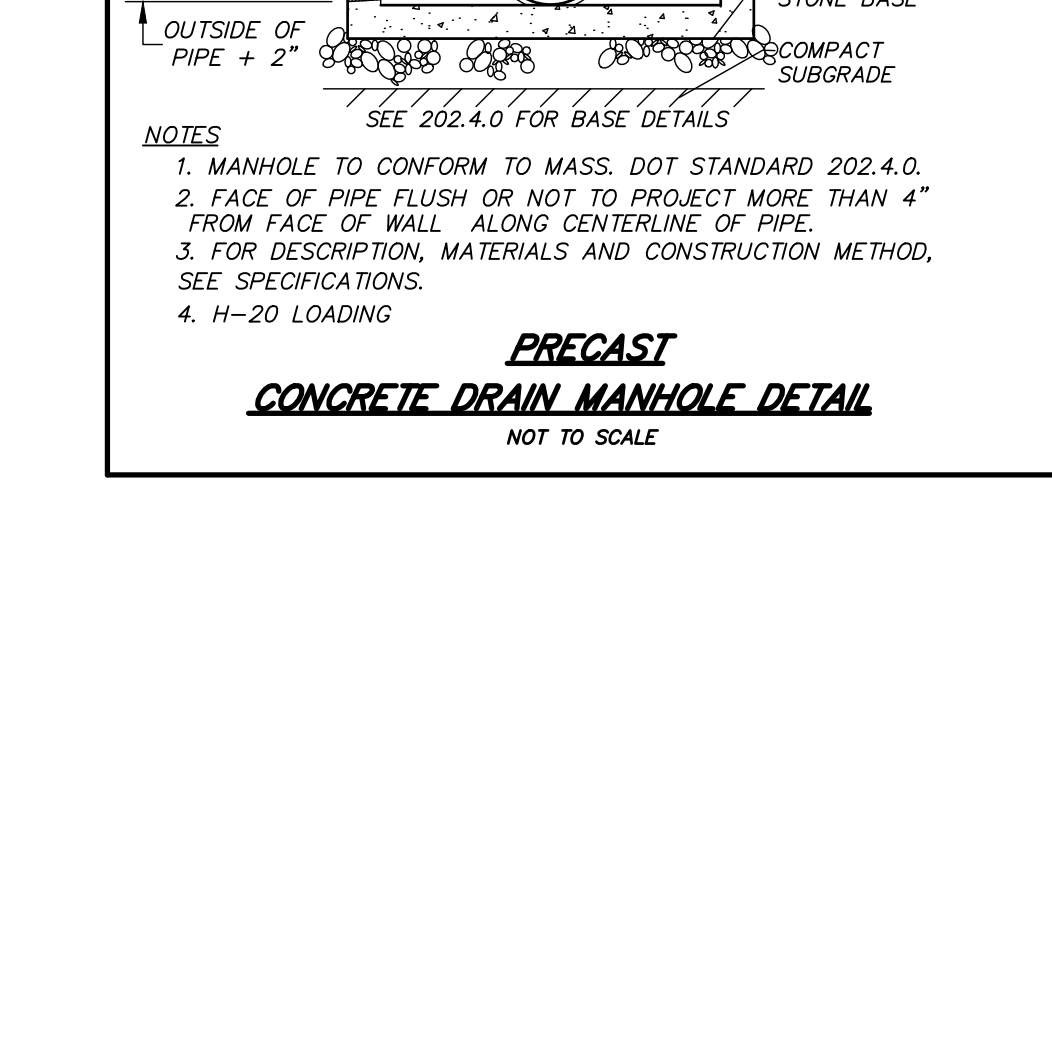
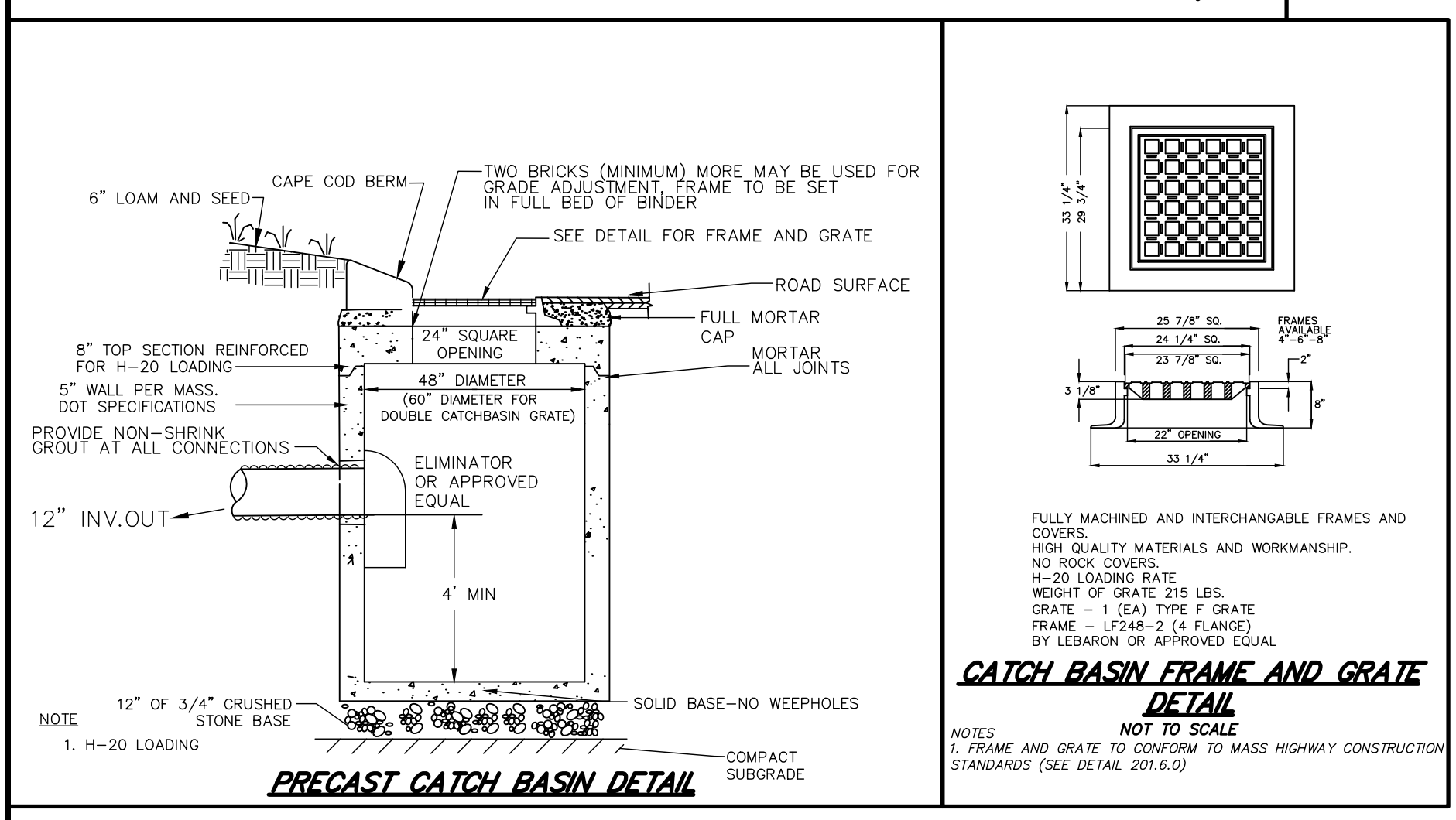
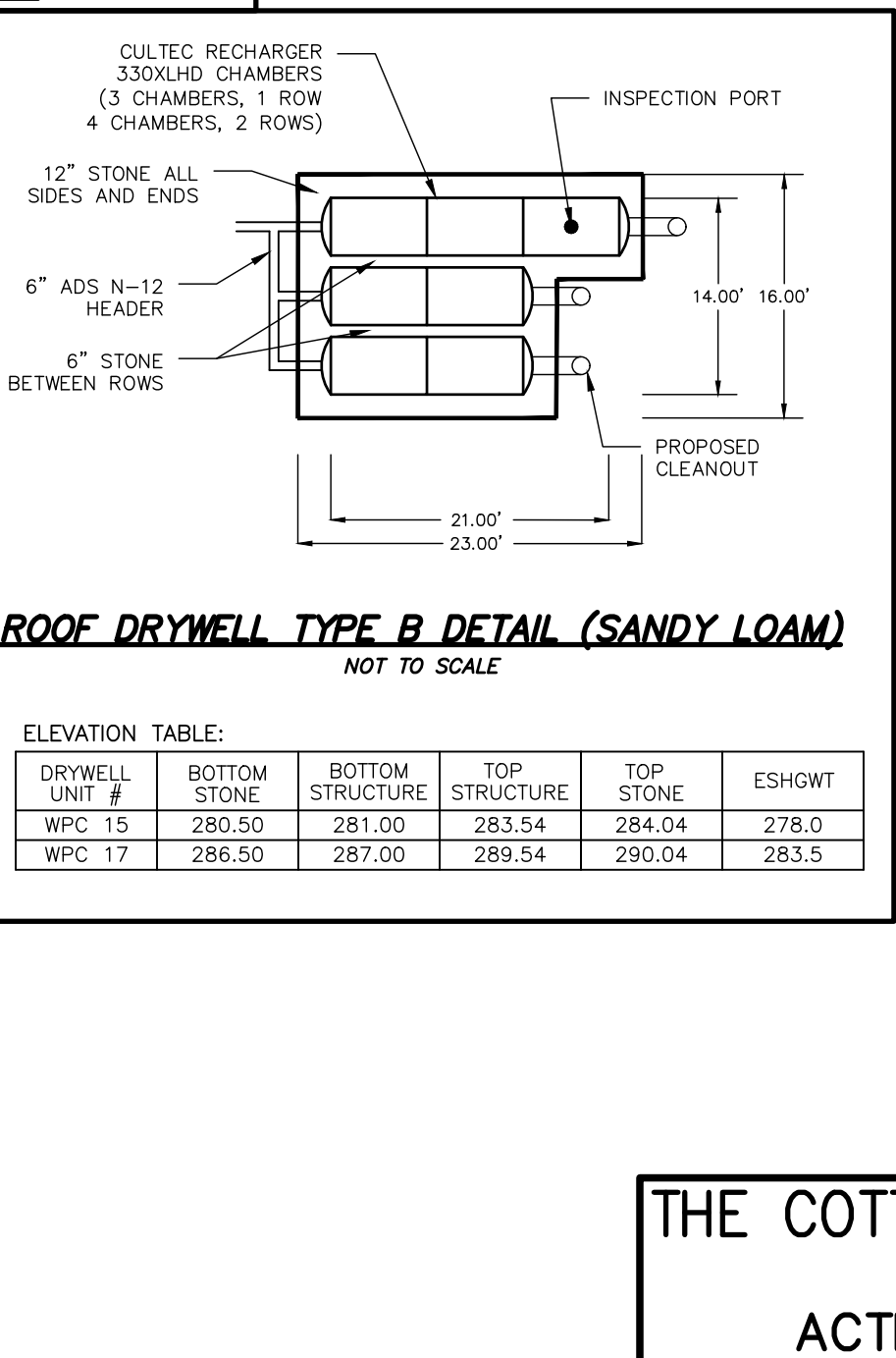
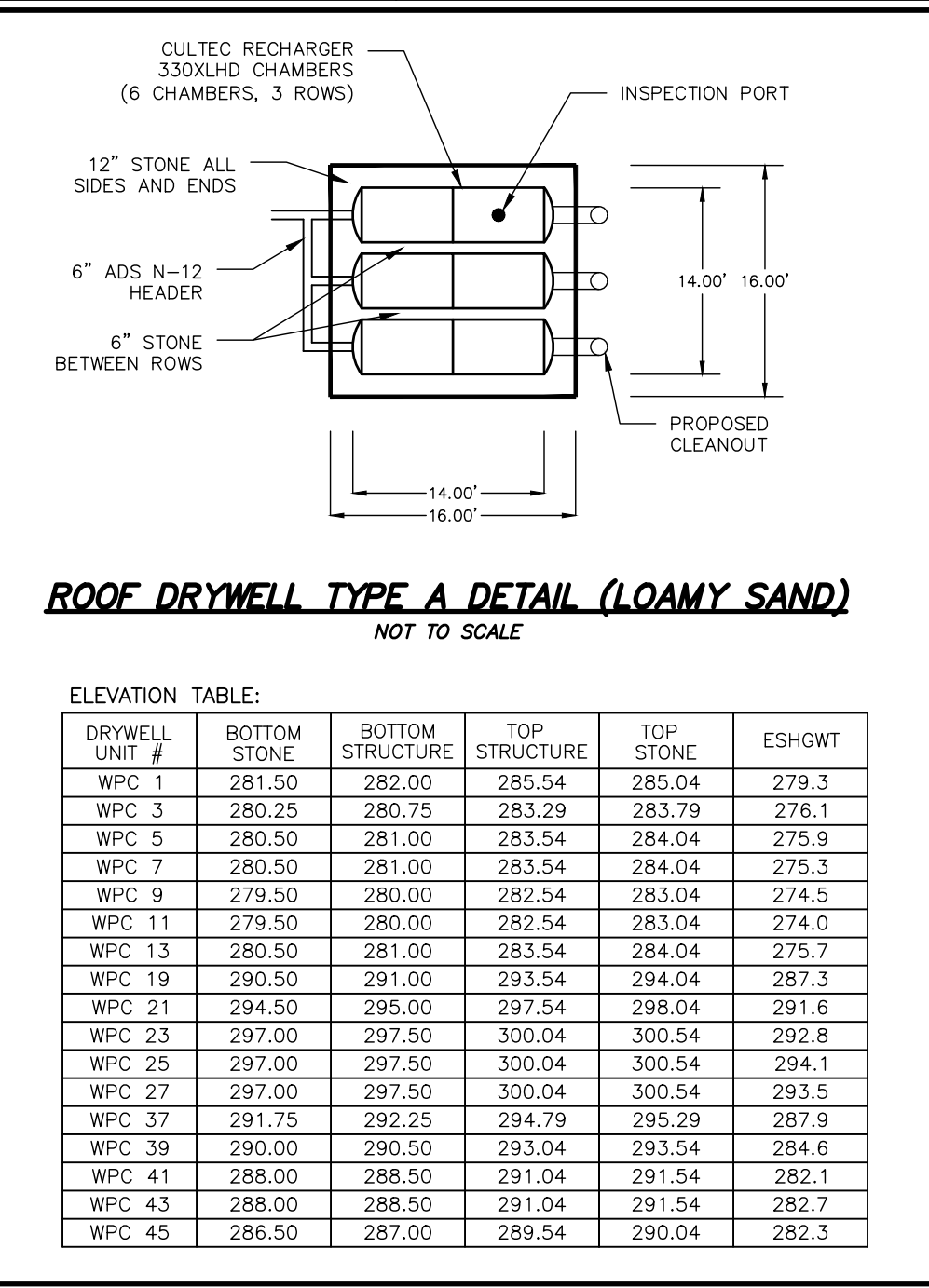
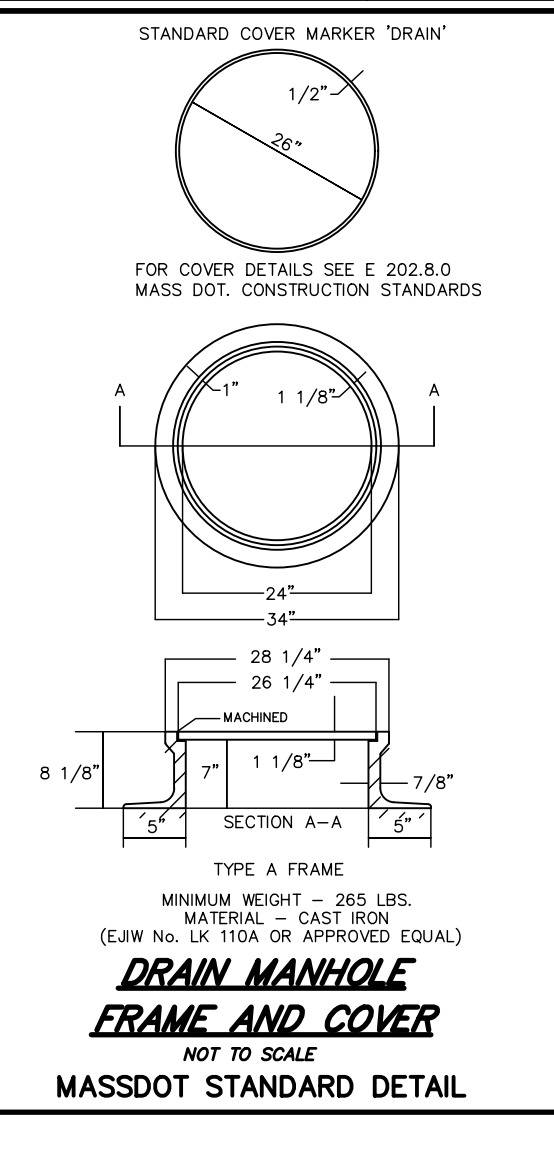
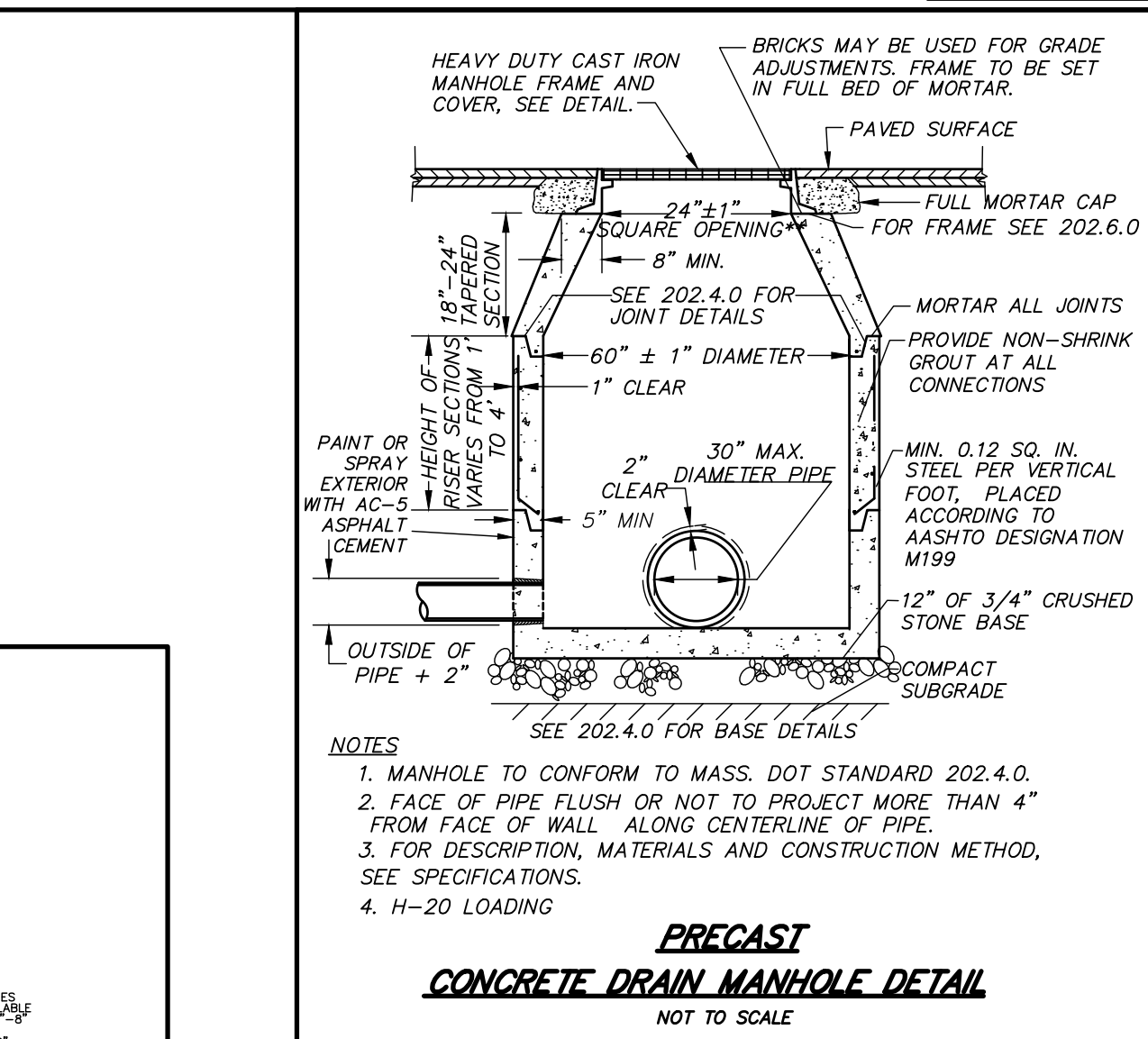
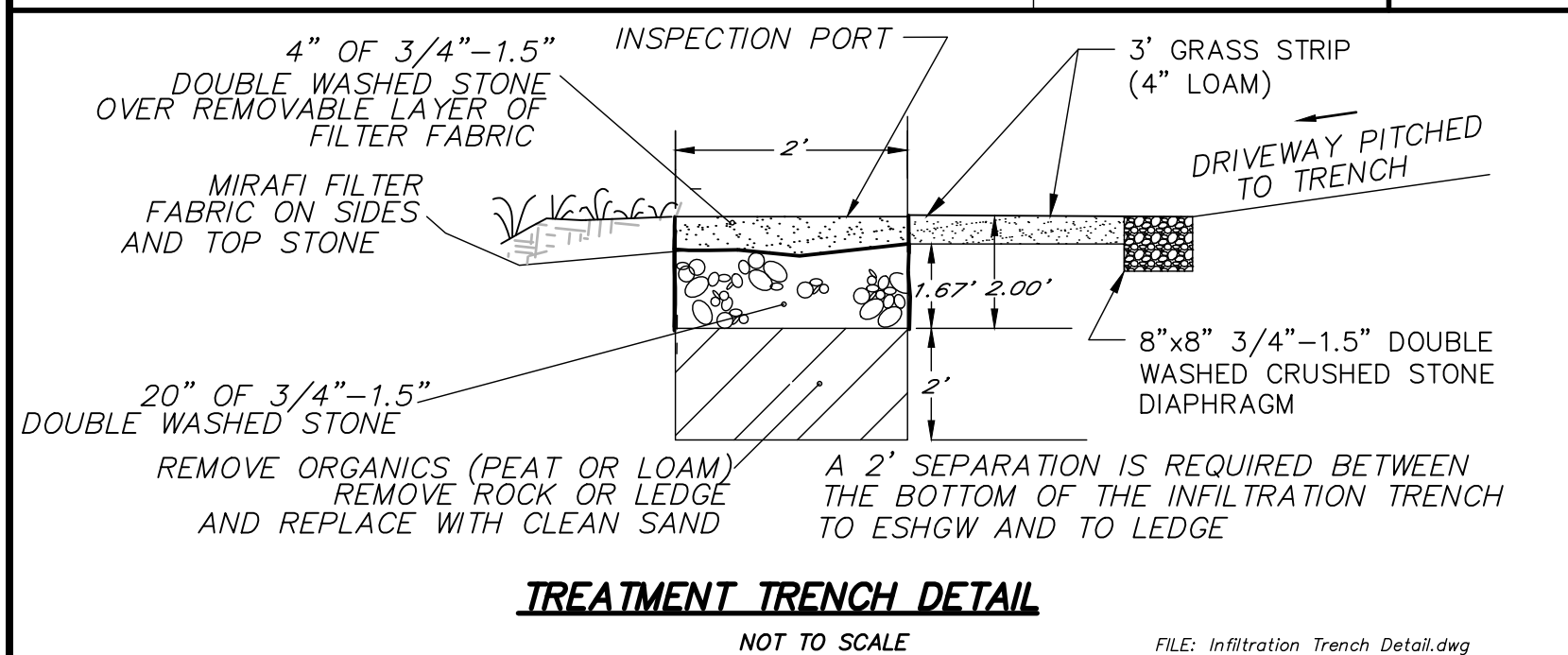
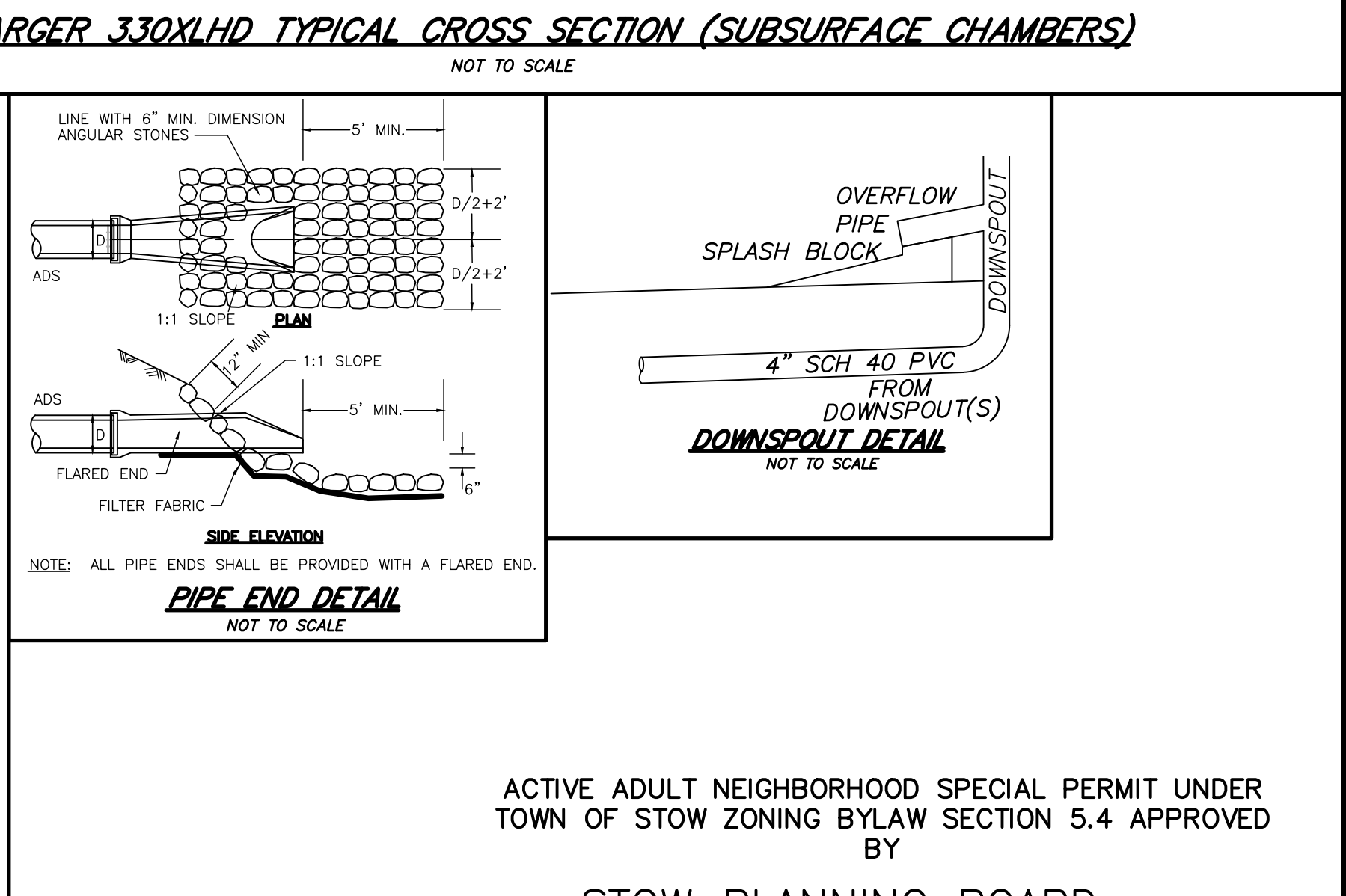
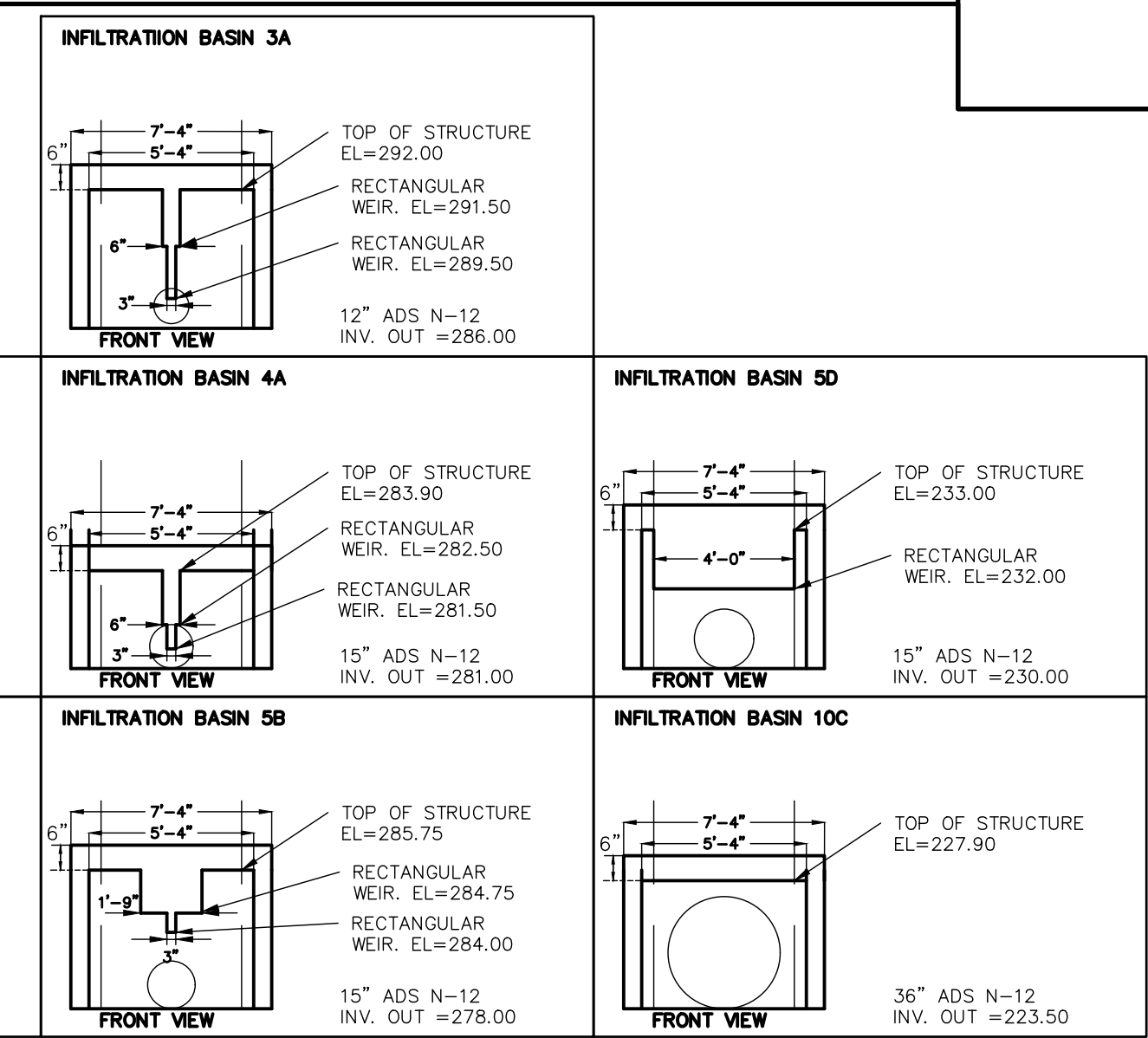
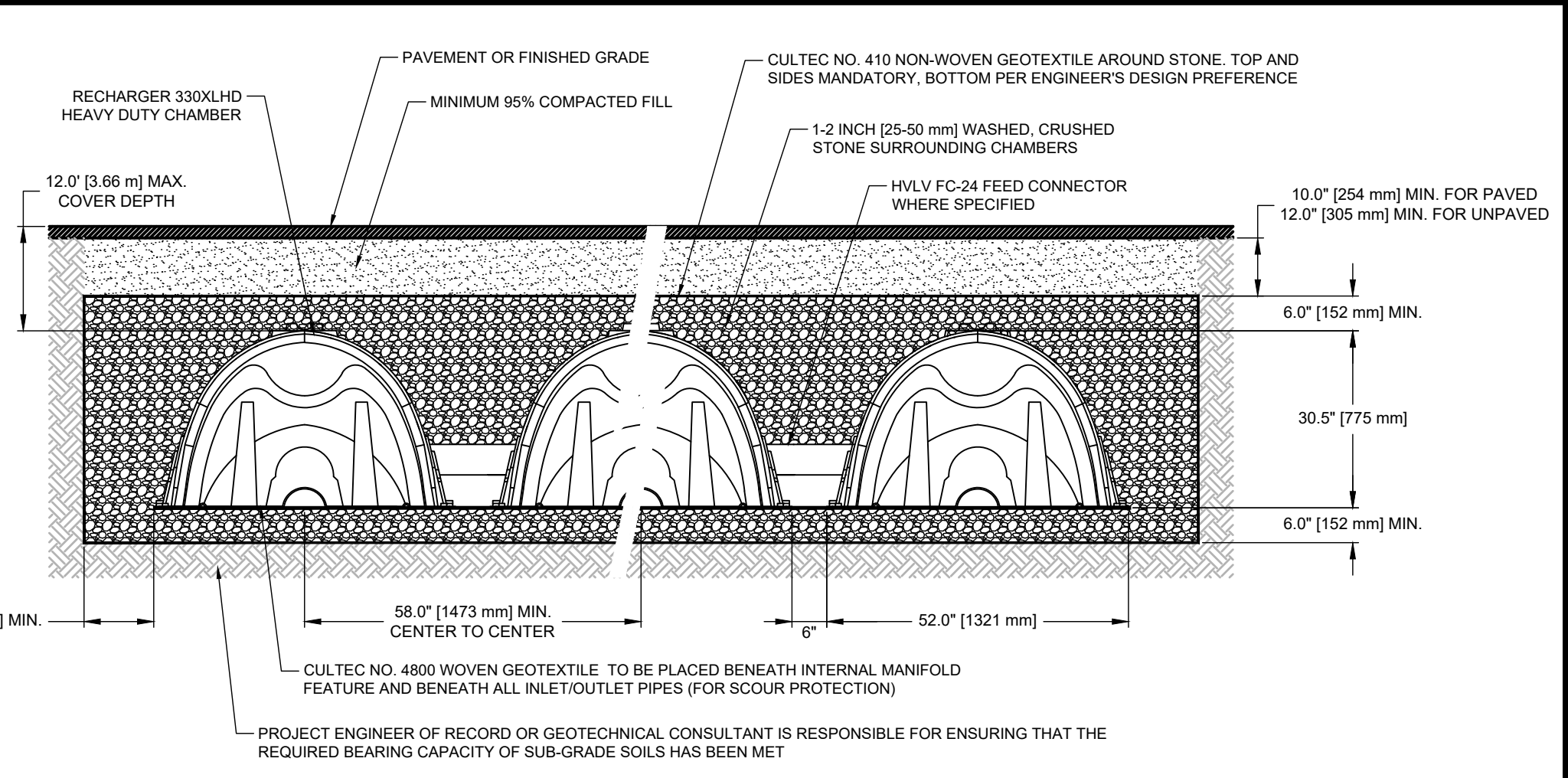
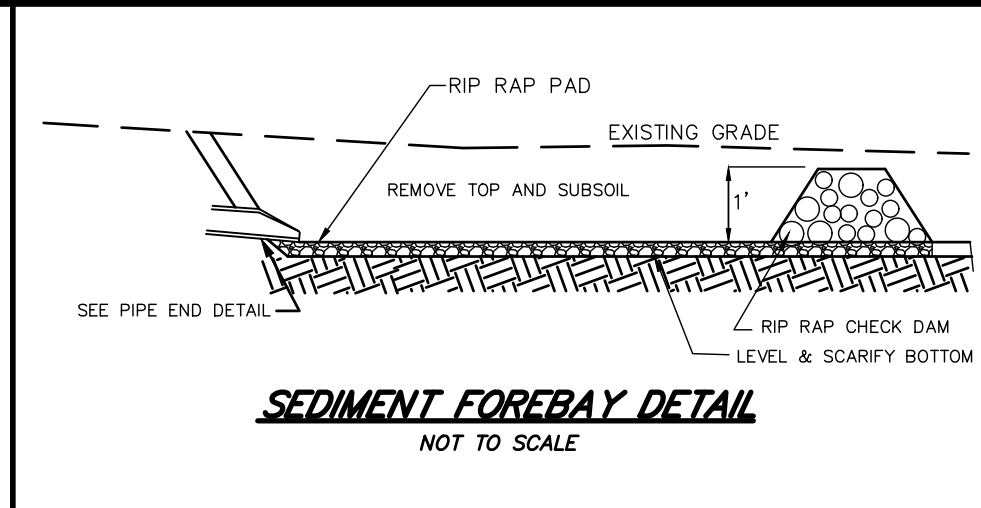
DATE

TOWN CLERK

THE COTTAGES AT WANDERING POND
AN
ACTIVE ADULT NEIGHBORHOOD
IN
STOW, MASSACHUSETTS
(MIDDLESEX COUNTY)
DETAILS
FOR: THE COTTAGES AT WANDERING POND REALTY TRUST
SCALE: NTS JUNE 30, 2022
REVISED: OCTOBER 26, 2022
REVISED: JULY 6, 2023
STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING
SM-3719C (3719C.EXISTINGCOND.DEF.3.DWG) SHEET 68 OF 75



	A	B	OUTLET STRUTURE	C	D	E	ESHWGT
BASIN 2B-A	231.70	231.70	RISER (NYLOPLAST)	233.70	232.10	235.00	229.7
BASIN 2A1	306.00	306.00	STACK WEIR	308.85	306.00	310.00	303.4
BASIN 2A2	301.00	301.00	STACK WEIR	303.50	301.00	305.00	296.4
BASIN 3A	289.00	289.00	STACK WEIR	289.90	286.00	293.00	282.8
BASIN 4A	281.00	281.00	STACK WEIR	281.50	281.00	285.00	276.3
BASIN 5B	283.00	283.00	STACK WEIR	283.75	278.00	287.00	276.8
BASIN 5C	258.00	258.00	RISER (NYLOPLAST)	260.70	258.00	262.00	254.3
BASIN 5D	230.00	230.00	STACK WEIR	232.00	230.00	234.00	227.8
BASIN 6B	221.00	219.00	EXFILTRATION	N/A	N/A	223.00	215.4
BASIN 7A	219.00	219.00	EXFILTRATION	N/A	N/A	225.00	217.0
BASIN 7B	224.00	224.00	EXFILTRATION	N/A	N/A	228.00	214.1
BASIN 8	222.30	222.30	EXFILTRATION	N/A	N/A	227.00	220.3
BASIN 10B	225.00	225.00	RISER (NYLOPLAST)	226.75	225.00	229.00	222.0
BASIN 10C	225.00	225.00	STACK WEIR	227.90	223.50	229.00	223.0



ELEVATION TABLE:					
DRYWELL UNIT #	BOTTOM STONE	BOTTOM STRUCTURE	TOP STRUCTURE	TOP STONE	ESHWGT
WPC 1	261.50	262.00	285.54	285.04	279.3
WPC 3	280.25	280.75	283.29	283.79	276.1
WPC 5	280.50	281.00	283.54	284.04	275.9
WPC 7	280.50	281.00	283.54	284.04	275.3
WPC 9	279.50	280.00	282.54	283.04	274.5
WPC 11	279.50	280.00	282.54	283.04	274.0
WPC 13	280.50	281.00	283.54	284.04	275.7
WPC 39	290.00	290.50	293.04	293.54	284.6
WPC 21	294.50	295.00	297.54	298.04	281.6
WPC 23	297.00	297.50	300.04	300.54	292.8
WPC 25	297.00	297.50	300.04	300.54	294.1
WPC 27	297.00	297.50	300.04	300.54	293.5
WPC 37	291.75	292.25	294.79	295.29	287.9
WPC 41	288.00	288.50	291.04	291.54	282.1
WPC 43	288.00	288.50	291.04	291.54	282.7
WPC 45	286.50	287.00	289.54	290.04	282.3

ELEVATION TABLE:					
DRYWELL UNIT #	BOTTOM STONE	BOTTOM STRUCTURE	TOP STRUCTURE	TOP STONE	ESHWGT
WPC 15	280.50	281.00	283.54	284.04	278.0
WPC 17	286.50	287.00	289.54	290.04	283.5

ACTIVE ADULT NEIGHBORHOOD SPECIAL PERMIT UNDER TOWN OF STOW ZONING BYLAW SECTION 5.4 APPROVED BY

STOW PLANNING BOARD

DATE: _____

TOWN CLERK _____

THE COTTAGES AT WANDERING POND

AN

ACTIVE ADULT NEIGHBORHOOD

IN

STOW, MASSACHUSETTS

(MIDDLESEX COUNTY)

DETAILS

FOR: THE COTTAGES AT WANDERING POND REALTY TRUST

SCALE: NTS JUNE 30, 2022

REVISED: OCTOBER 26, 2022

REVISED: JULY 6, 2023

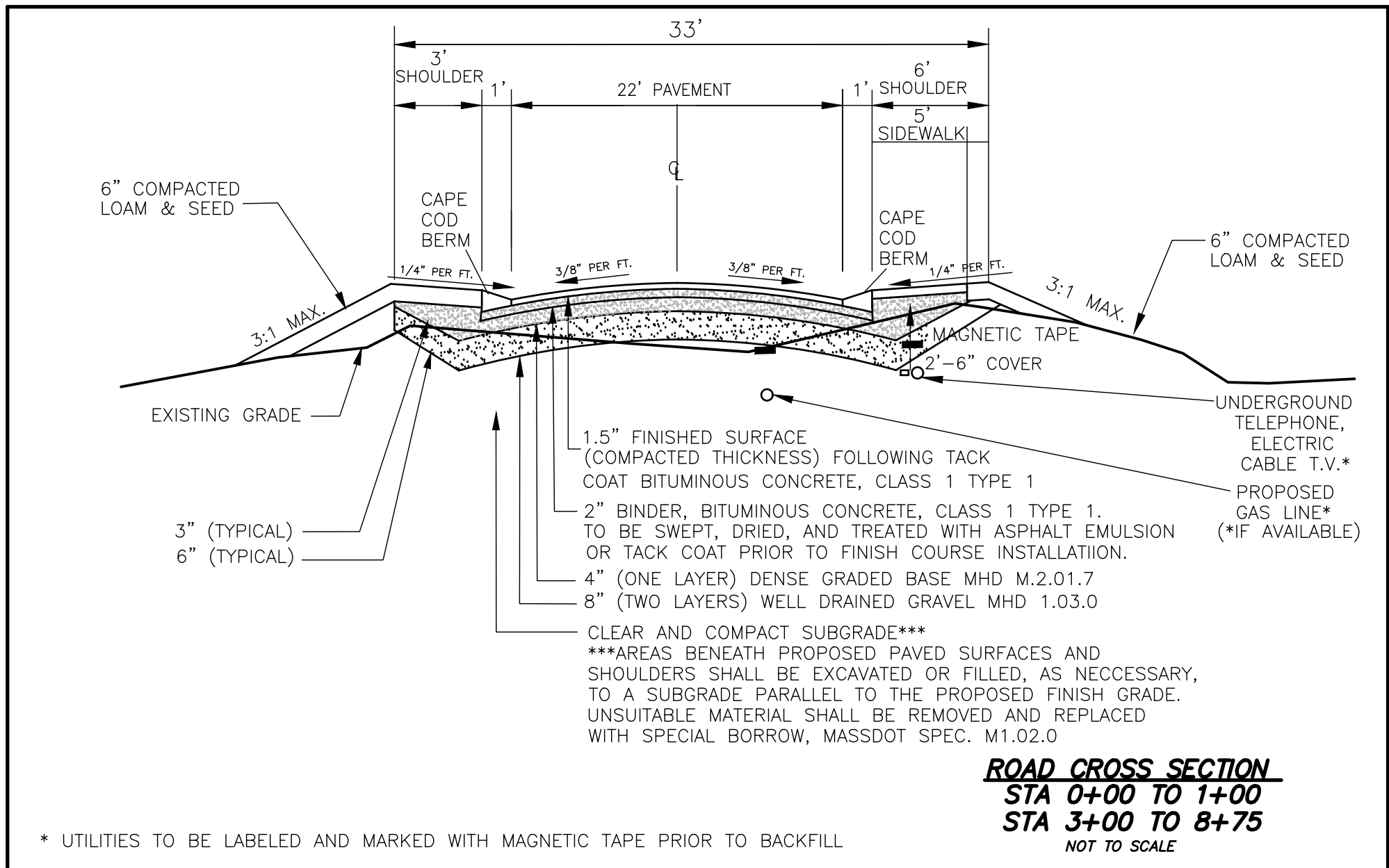
STAMSKI AND MCNARY, INC.

1000 MAIN STREET ACTON, MASSACHUSETTS

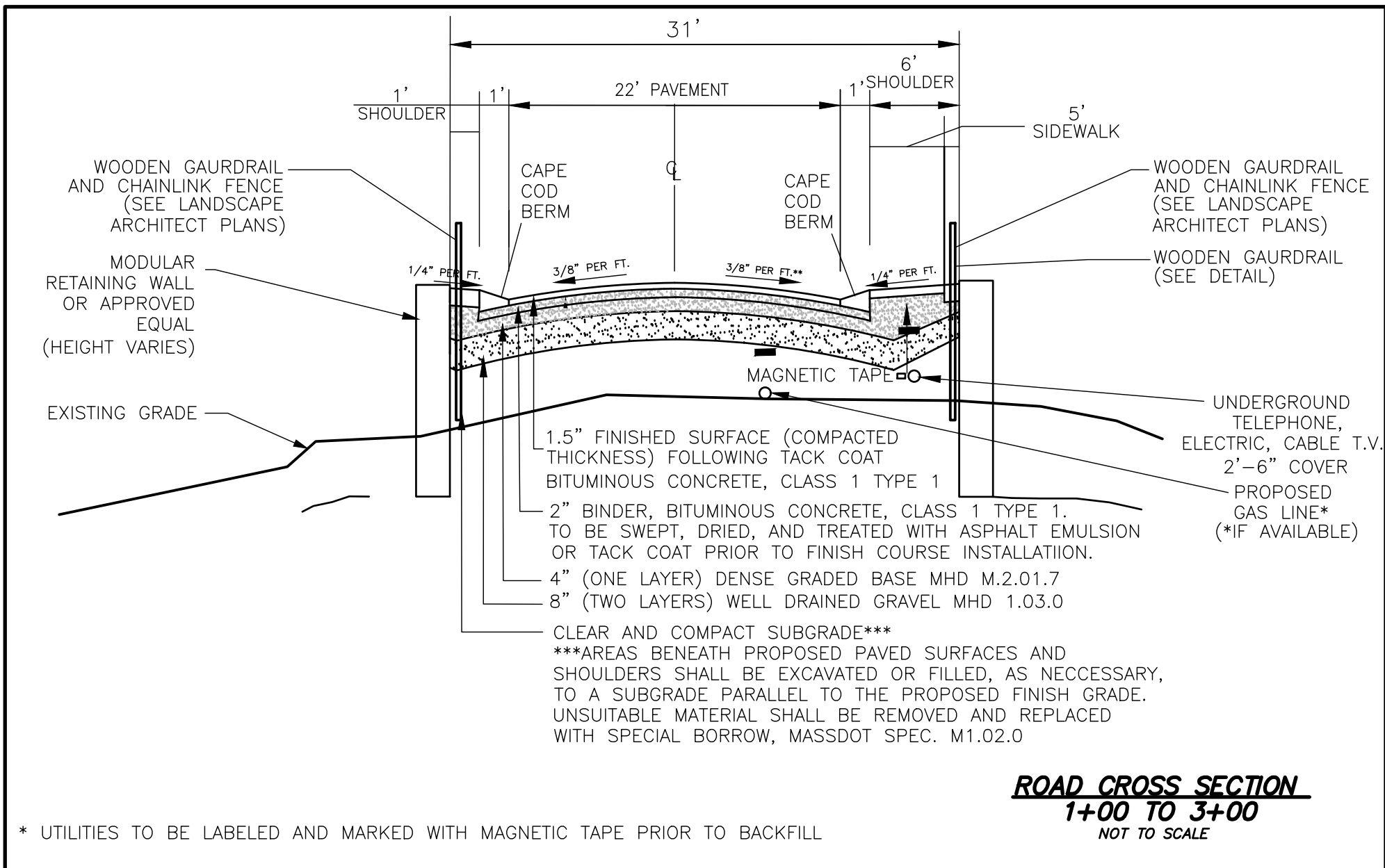
ENGINEERING - PLANNING - SURVEYING

SM-3719C (3719C.EXISTINGCOND.DEF.3.DWG) SHEET 69 OF 75

ATHENS LANE CROSS SECTION DETAIL 1



ATHENS LANE CROSS SECTION DETAIL 2 (STREAM CROSSING 1)



ACTIVE ADULT NEIGHBORHOOD PERMIT UNDER TOWN OF STOW ZONING BYLAW SECTION 5.4 APPROVED BY

STOW PLANNING BOARD

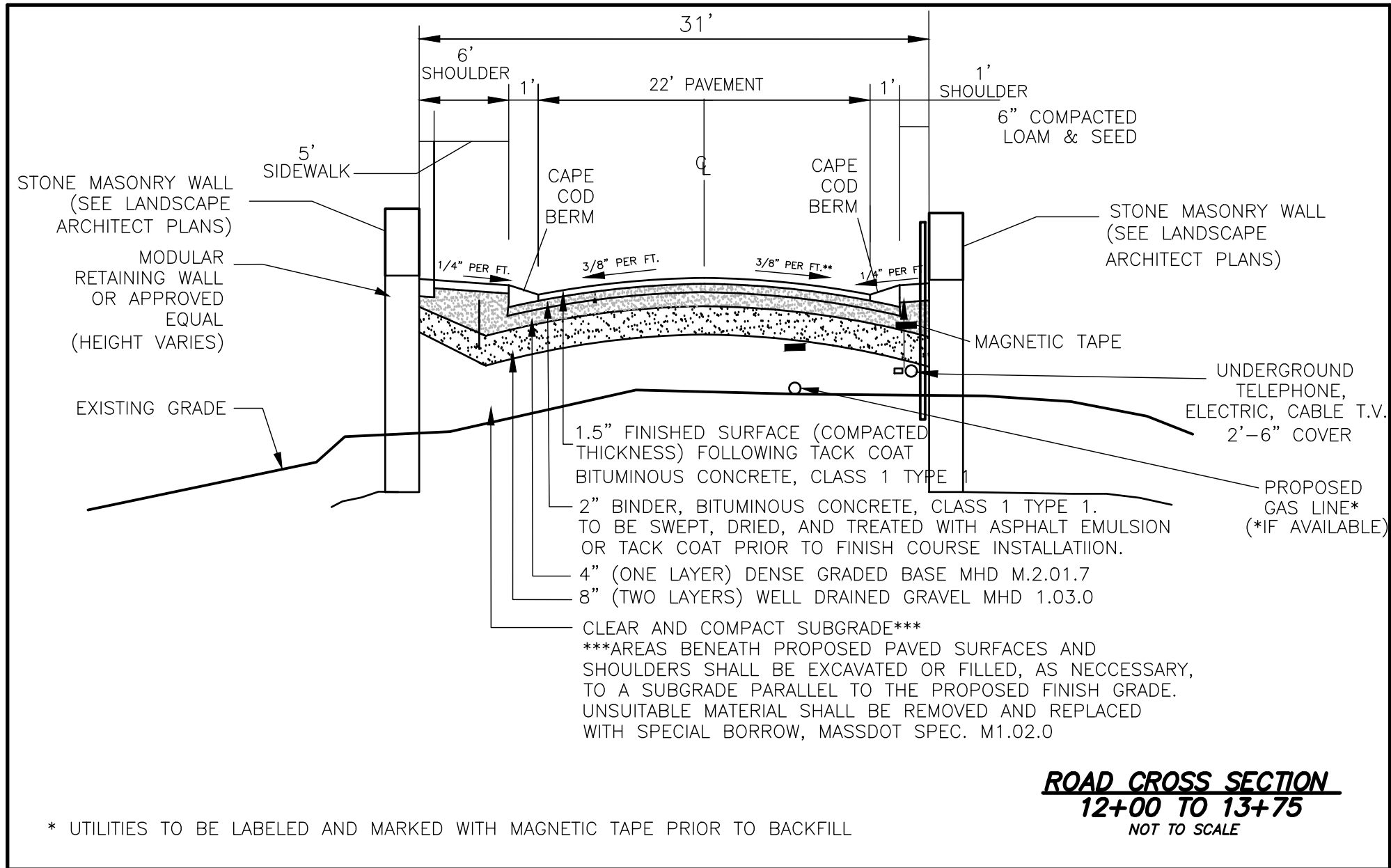
DATE: _____

I, CLERK OF THE TOWN OF STOW, MASSACHUSETTS HEREBY CERTIFY THE NOTICE OF APPROVAL OF THIS PLAN BY THE STOW PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

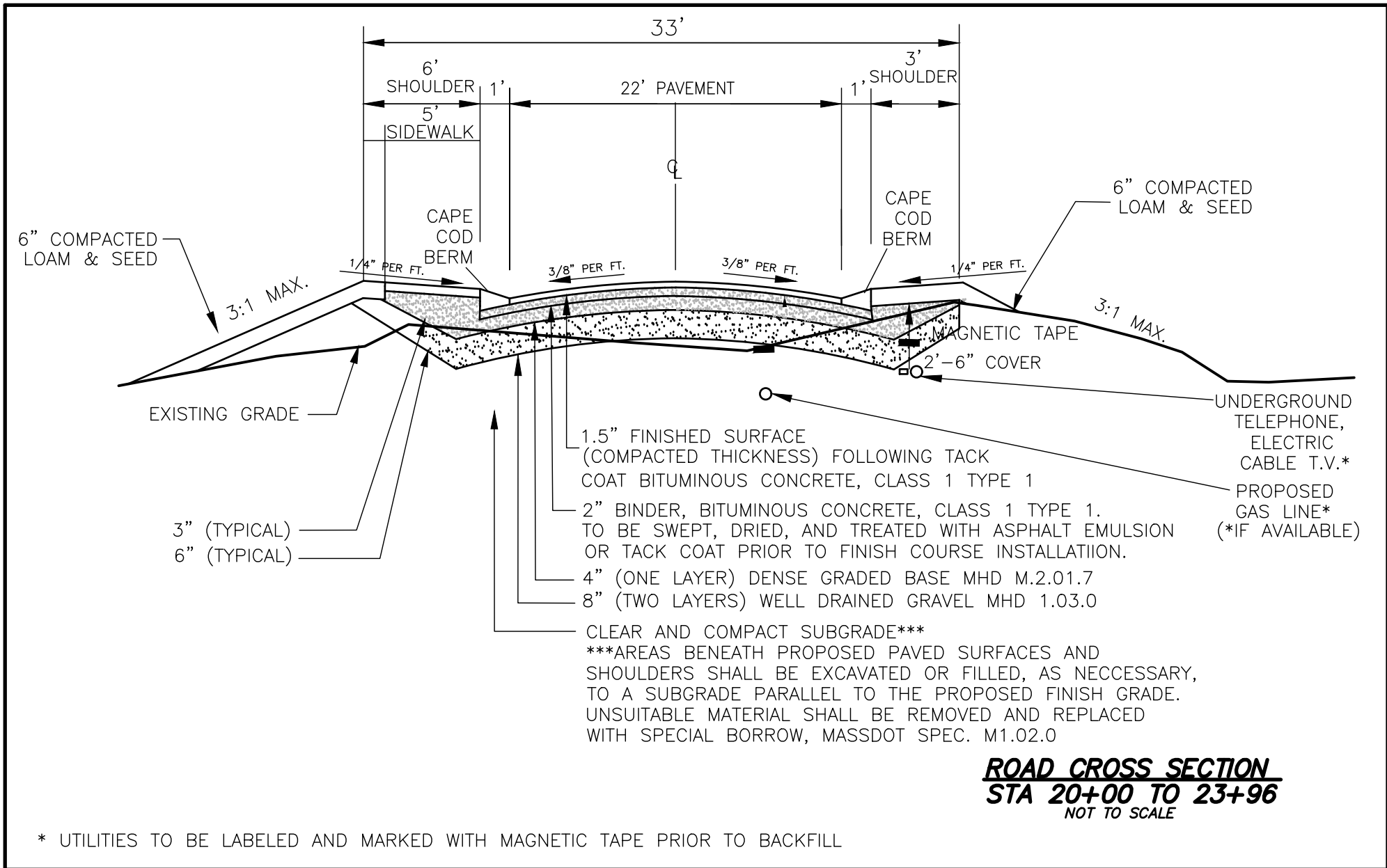
DATE _____

TOWN CLERK _____

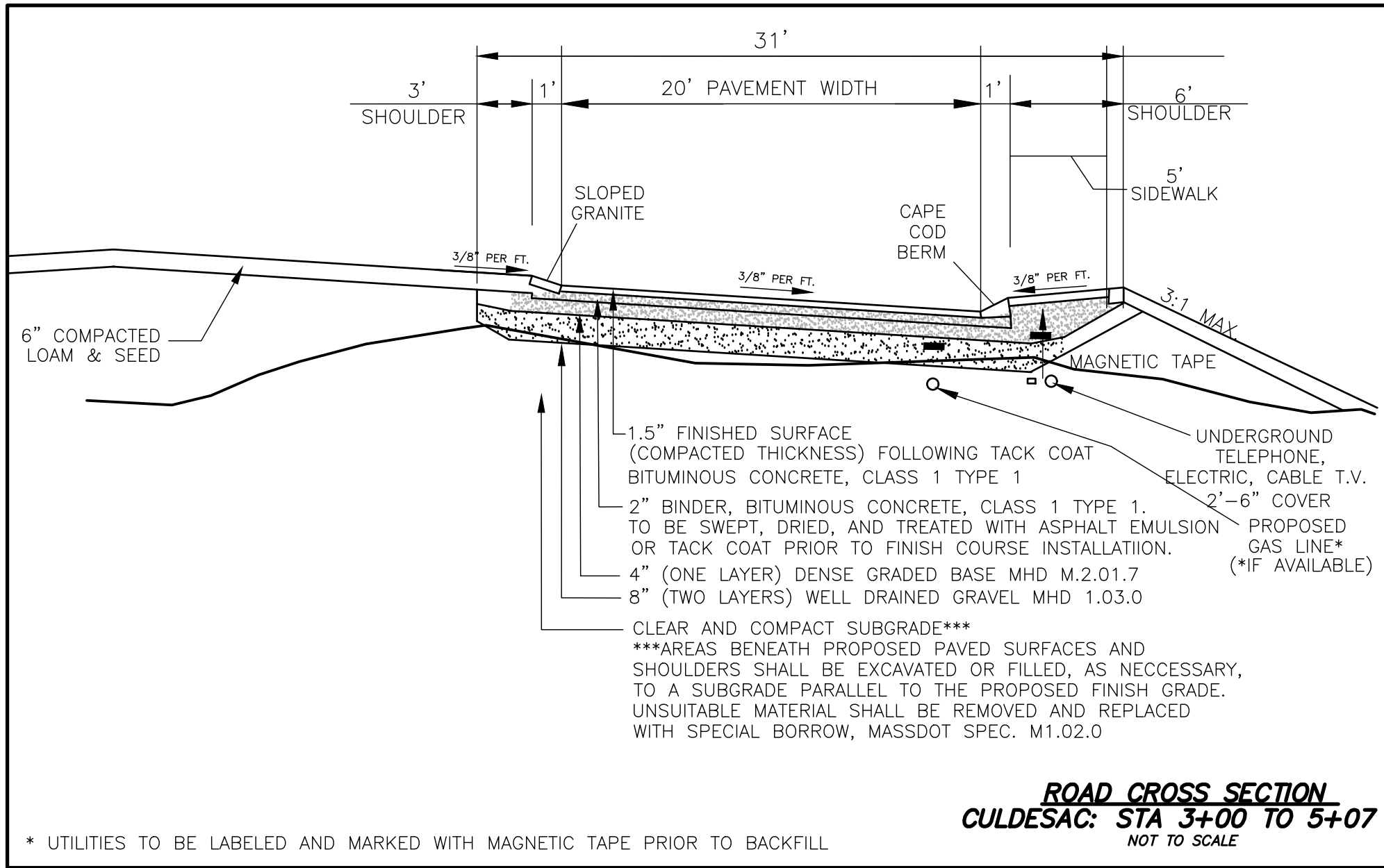
WANDERING POND WAY CROSS SECTION DETAIL 1 (STREAM CROSSING 2)



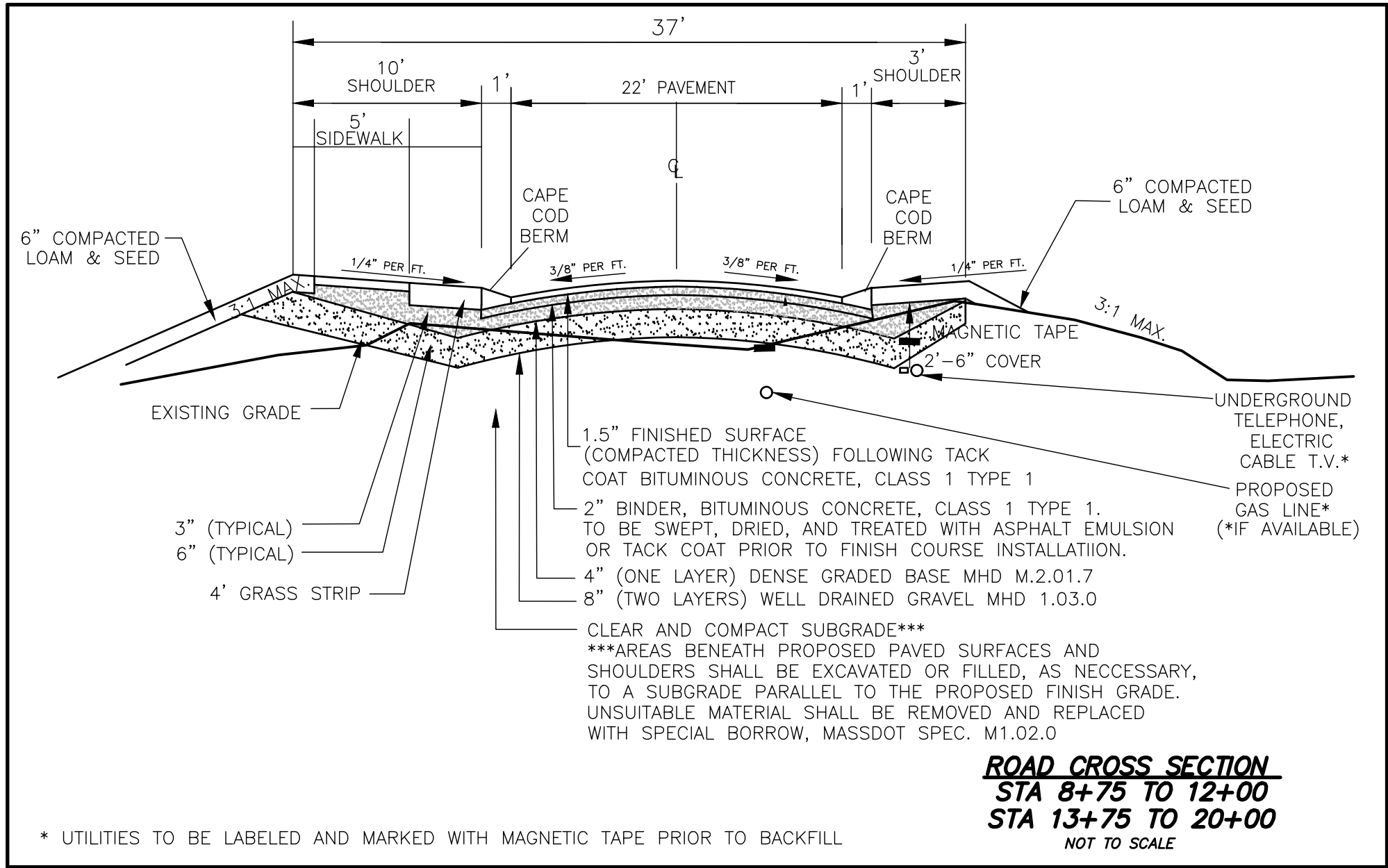
WANDERING POND WAY CROSS SECTION DETAIL 3



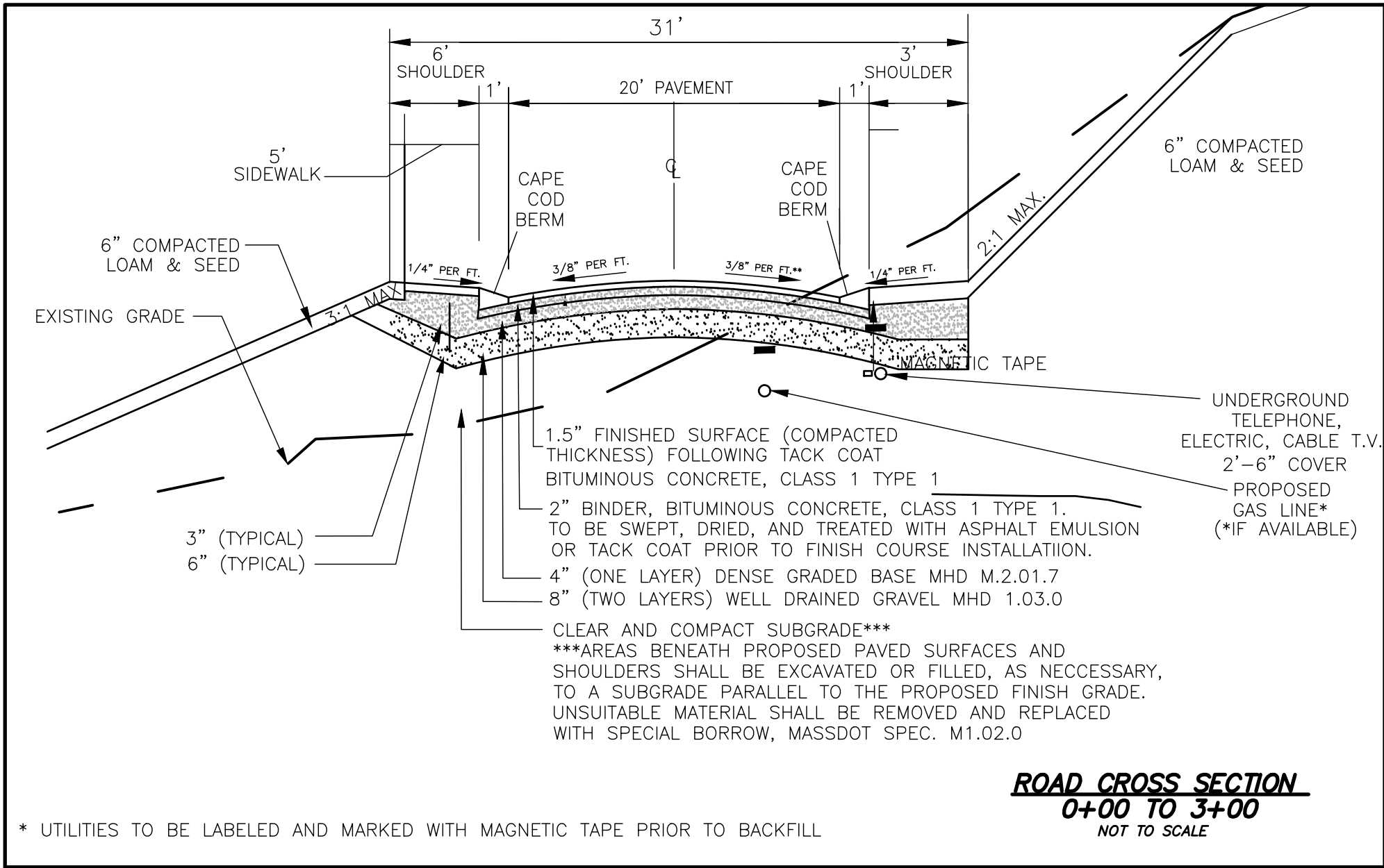
STEPPING STONE LANE CROSS SECTION DETAIL 1



WANDERING POND WAY CROSS SECTION DETAIL 2



STEPPING STONE LANE CROSS SECTION DETAIL 2

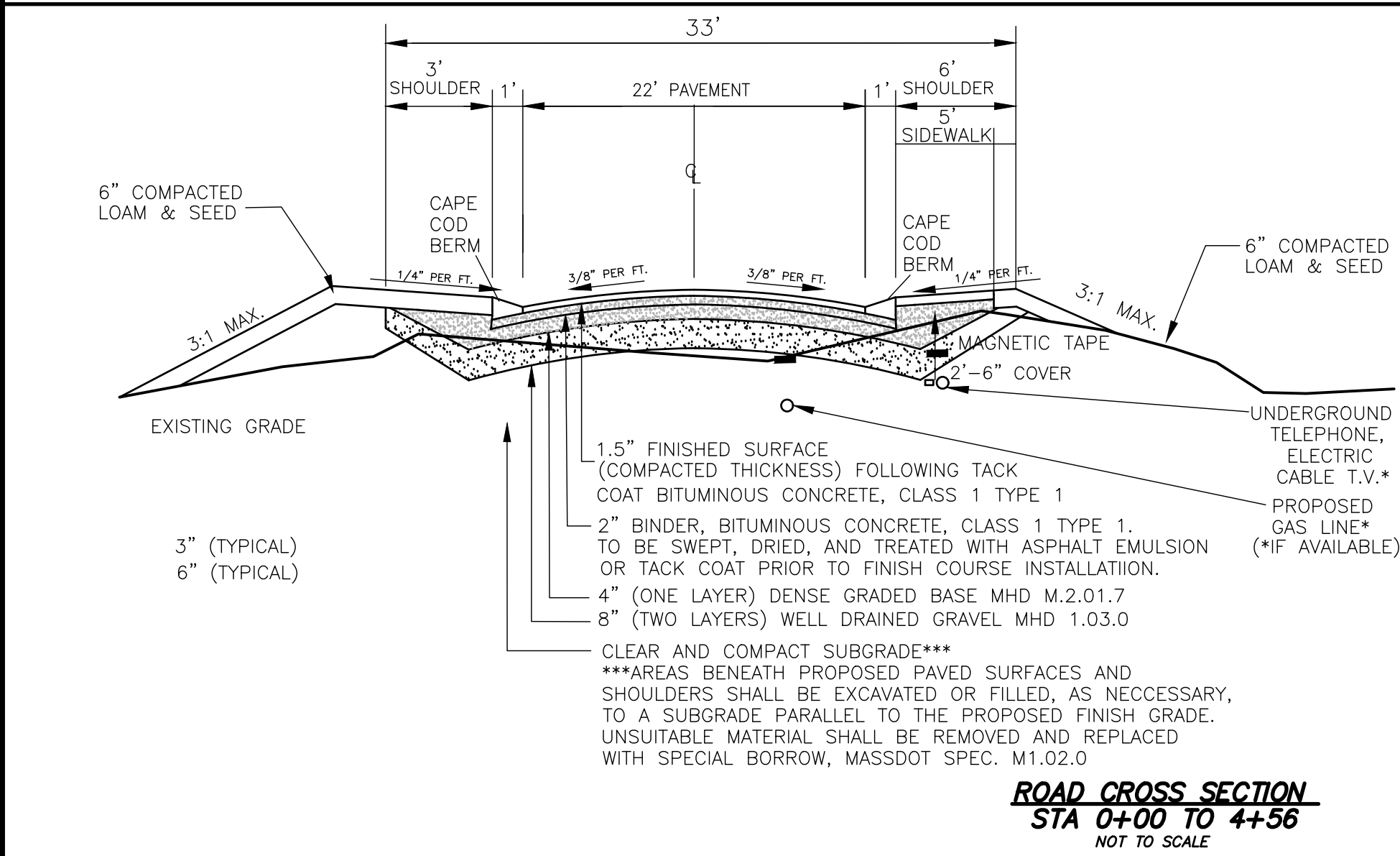


THE COTTAGES AT WANDERING POND
AN
ACTIVE ADULT NEIGHBORHOOD
IN
STOW, MASSACHUSETTS
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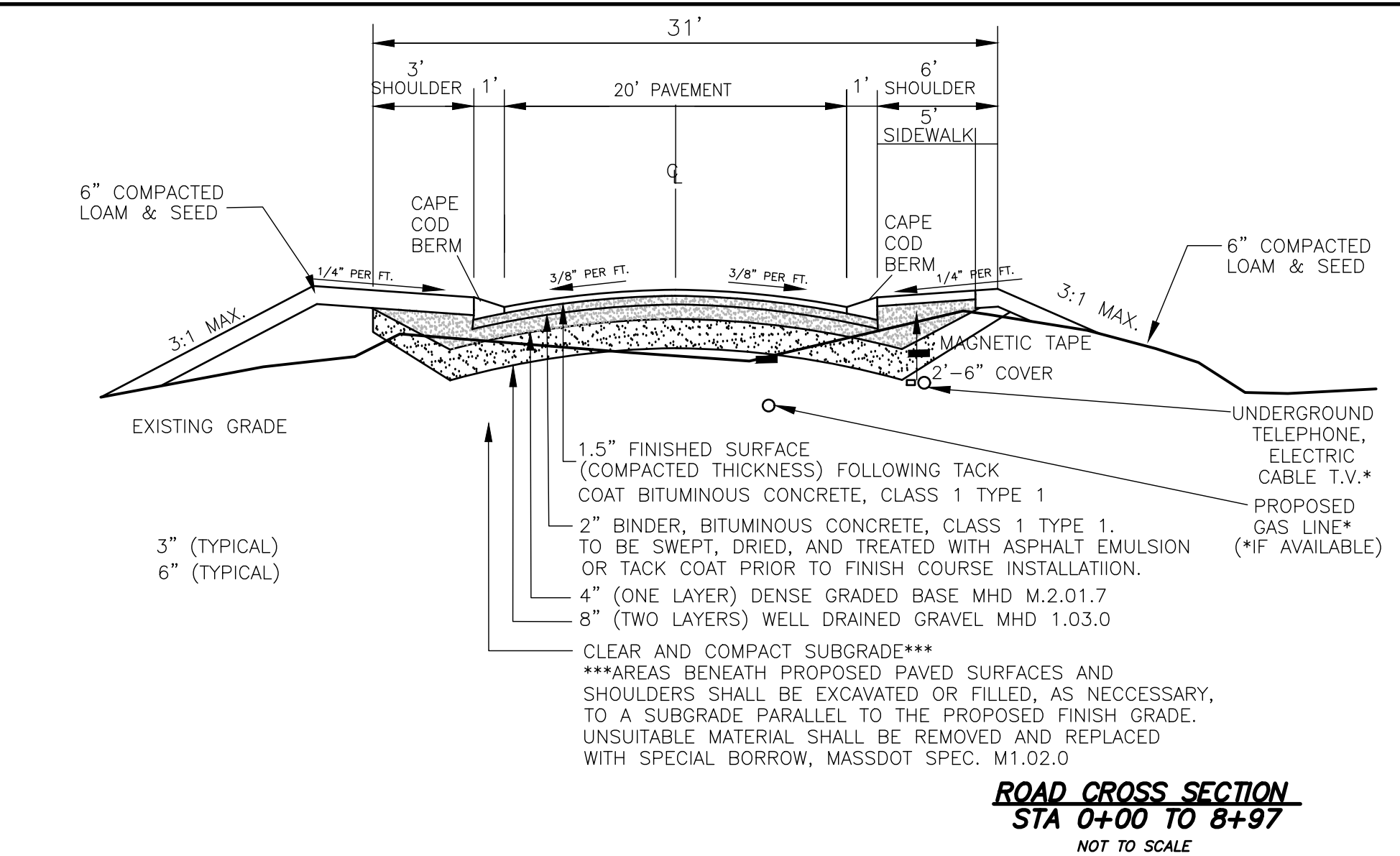
FOR: THE COTTAGES AT WANDERING POND REALTY TRUST
SCALE: AS SHOWN JUNE 30, 2022
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STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING

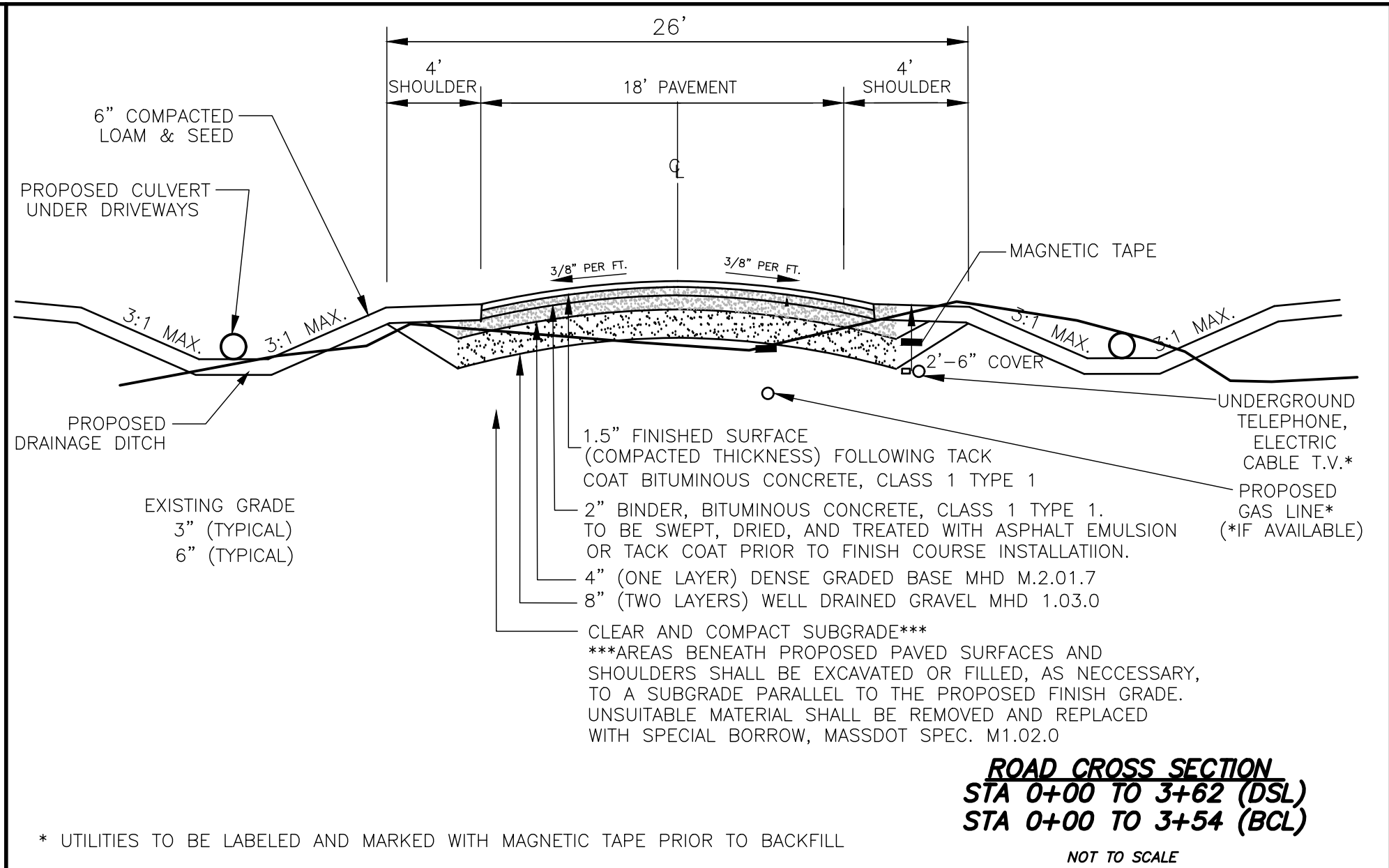
DAFFODIL DRIVE CROSS SECTION DETAIL



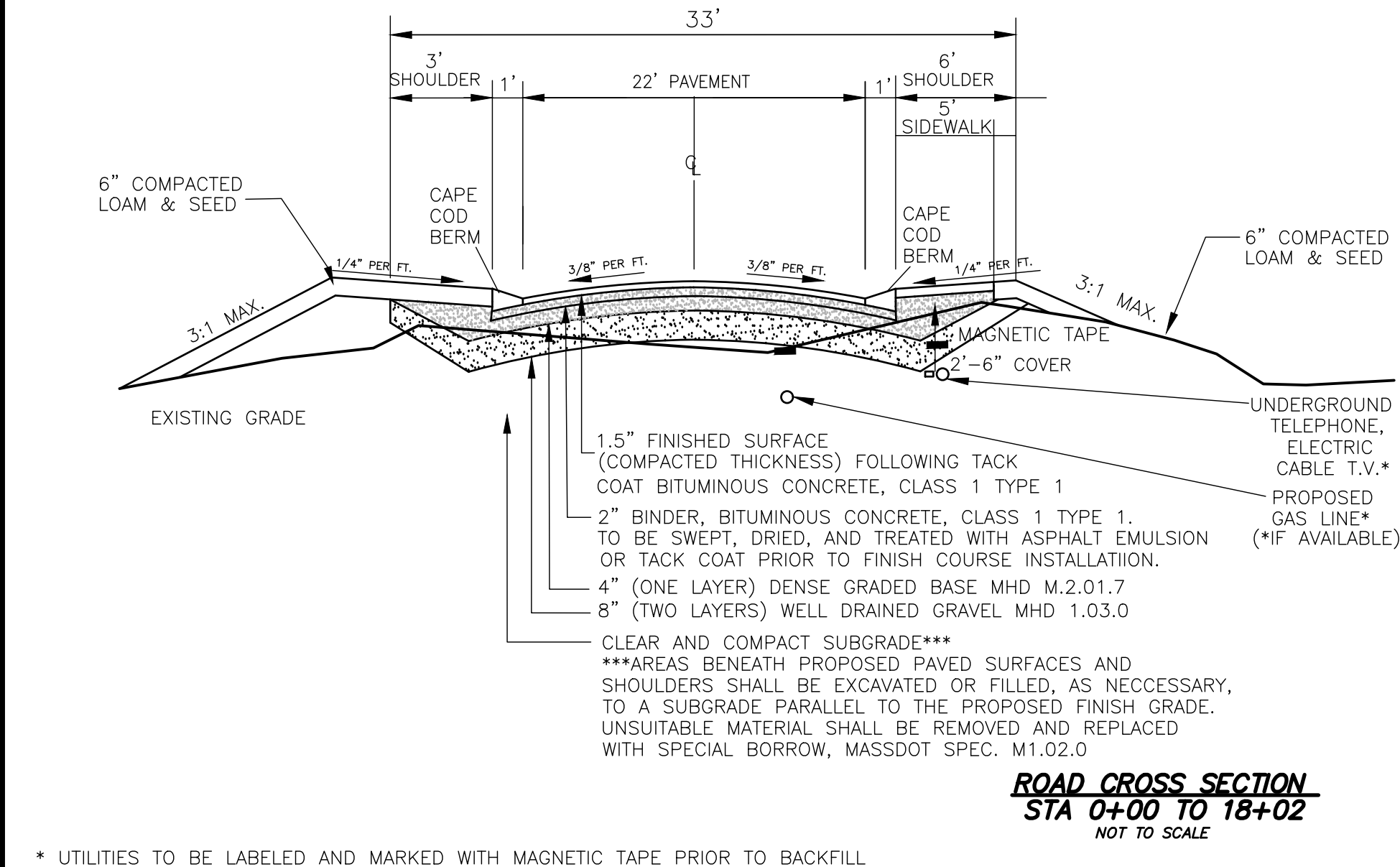
LILY PAD LANE CROSS SECTION DETAIL



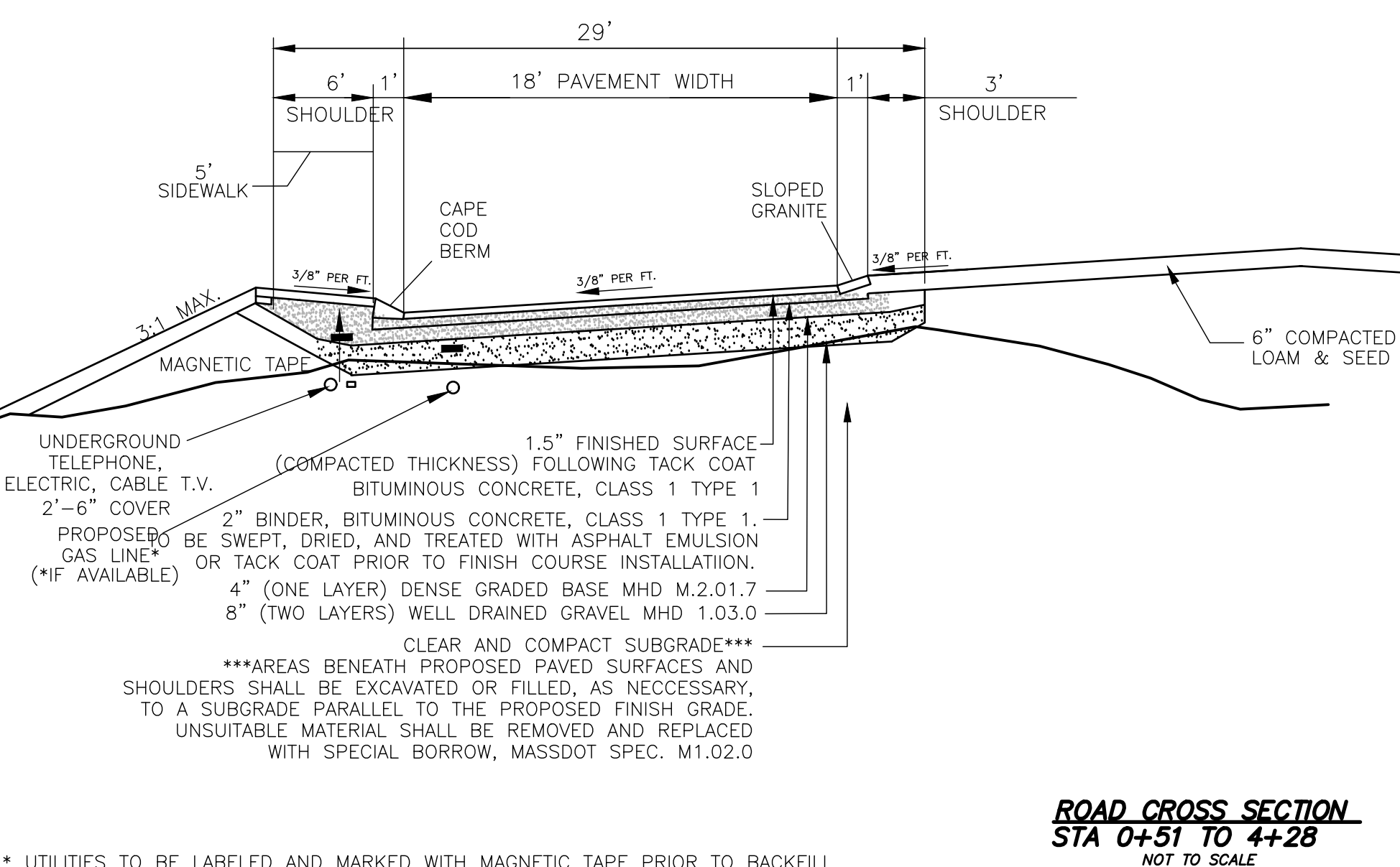
DAISY LANE & BUTTERCUP LANE CROSS SECTION DETAIL



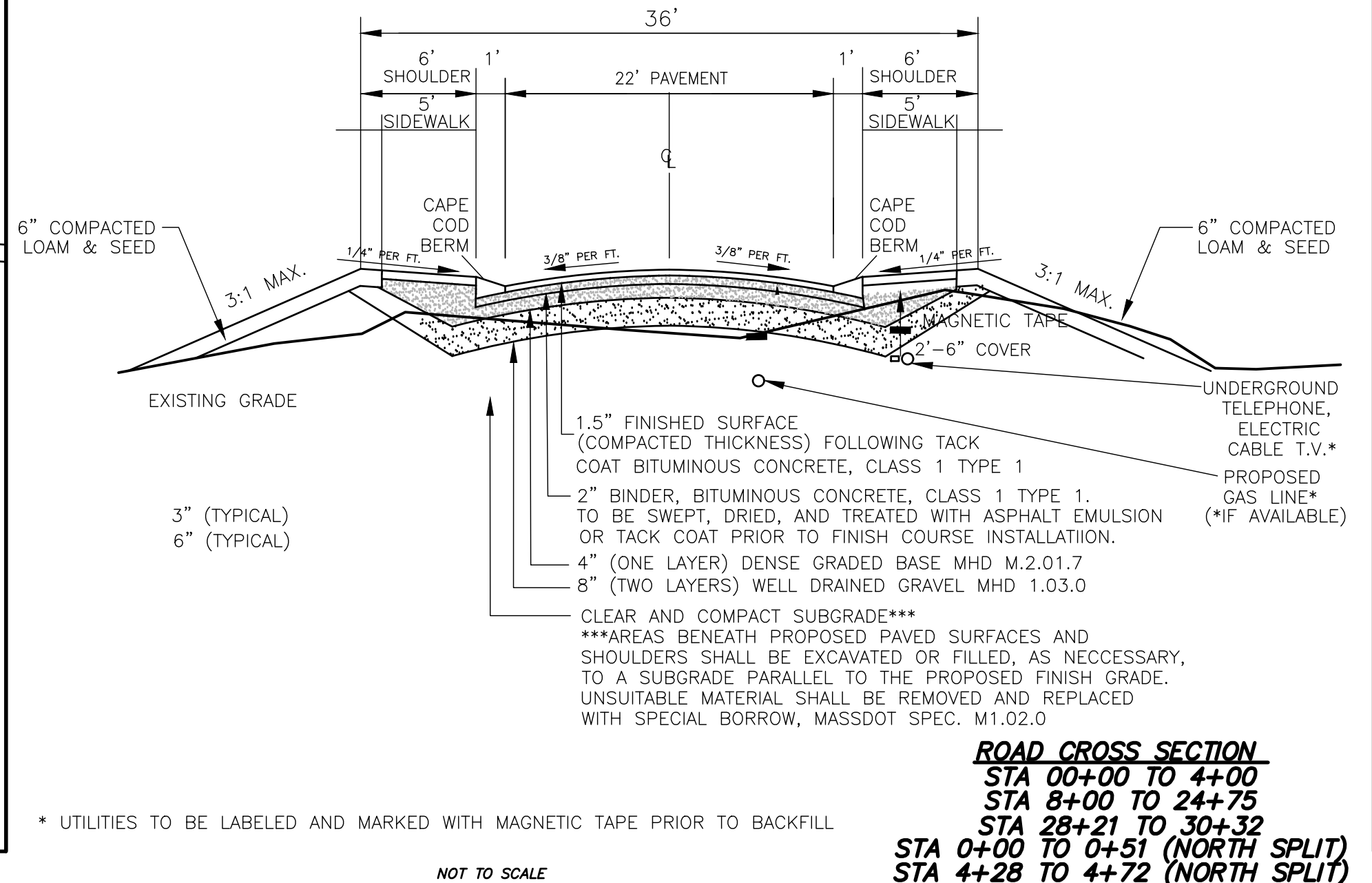
LUPINE CIRCLE CROSS SECTION DETAIL



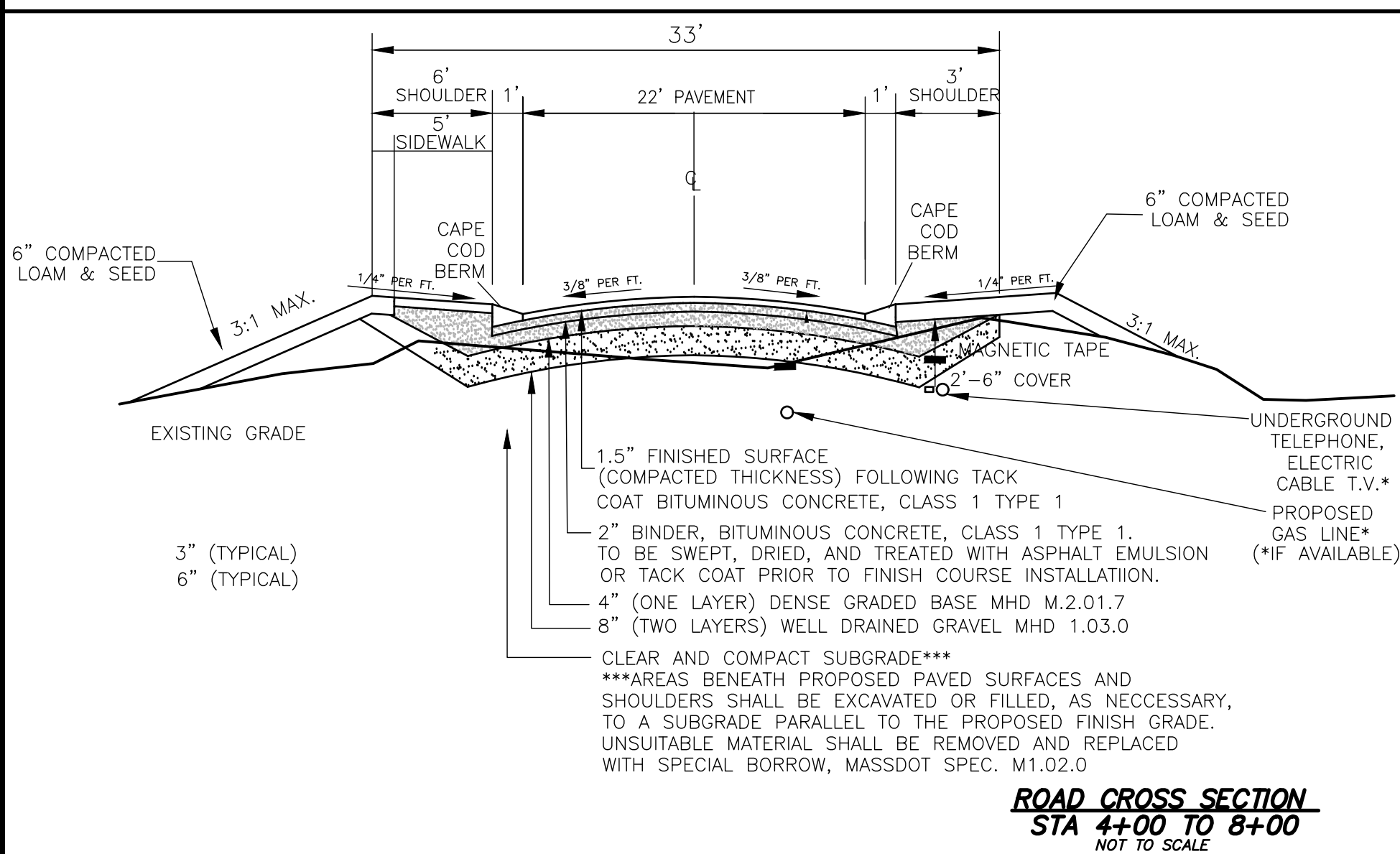
WILDFLOWER WAY NORTHBOUND SPLIT CROSS SECTION DETAIL



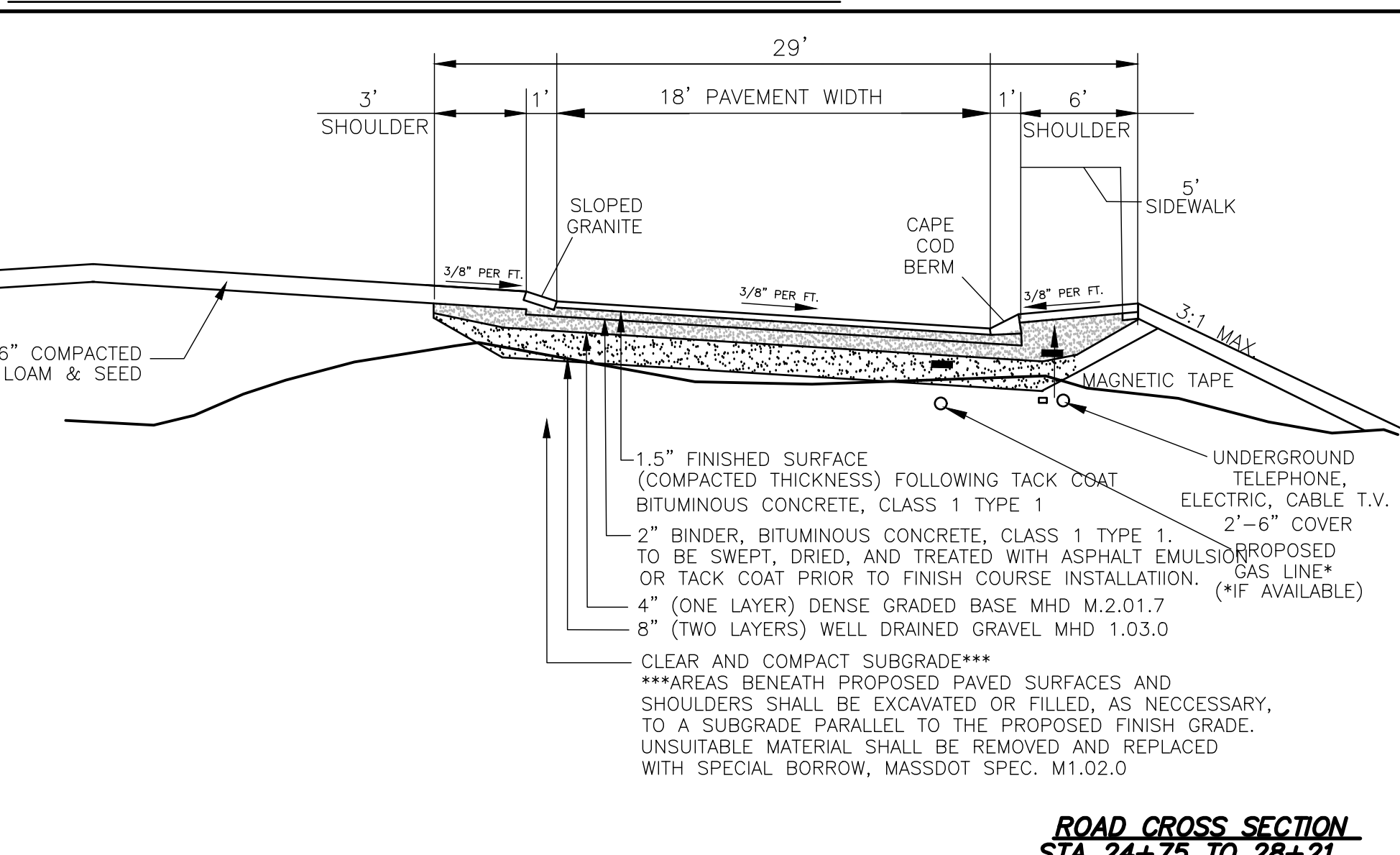
WILDFLOWER WAY CROSS SECTION DETAIL 1



WILDFLOWER WAY CROSS SECTION DETAIL 2



WILDFLOWER WAY CROSS SECTION DETAIL 3



ACTIVE ADULT NEIGHBORHOOD PERMIT UNDER TOWN OF STOW ZONING BYLAW SECTION 5.4 APPROVED BY

STOW PLANNING BOARD

DATE: _____

I, CLERK OF THE TOWN OF STOW, MASSACHUSETTS HEREBY CERTIFY THE NOTICE OF APPROVAL OF THIS PLAN BY THE STOW PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

DATE

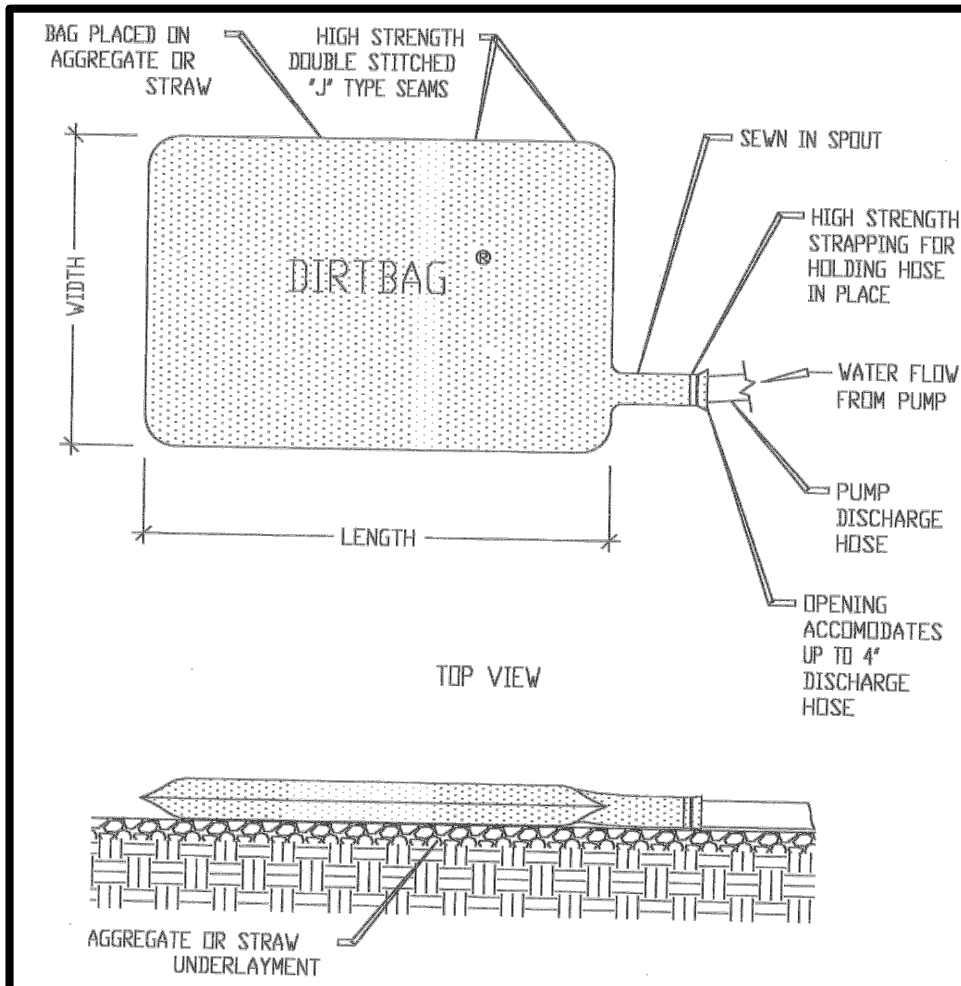
TOWN CLERK

THE COTTAGES AT WANDERING POND
AN
ACTIVE ADULT NEIGHBORHOOD
IN
STOW, MASSACHUSETTS
(MIDDLESEX COUNTY)

DETAILS
FOR: THE COTTAGES AT WANDERING POND REALTY TRUST
SCALE: NTS JUNE 30, 2022

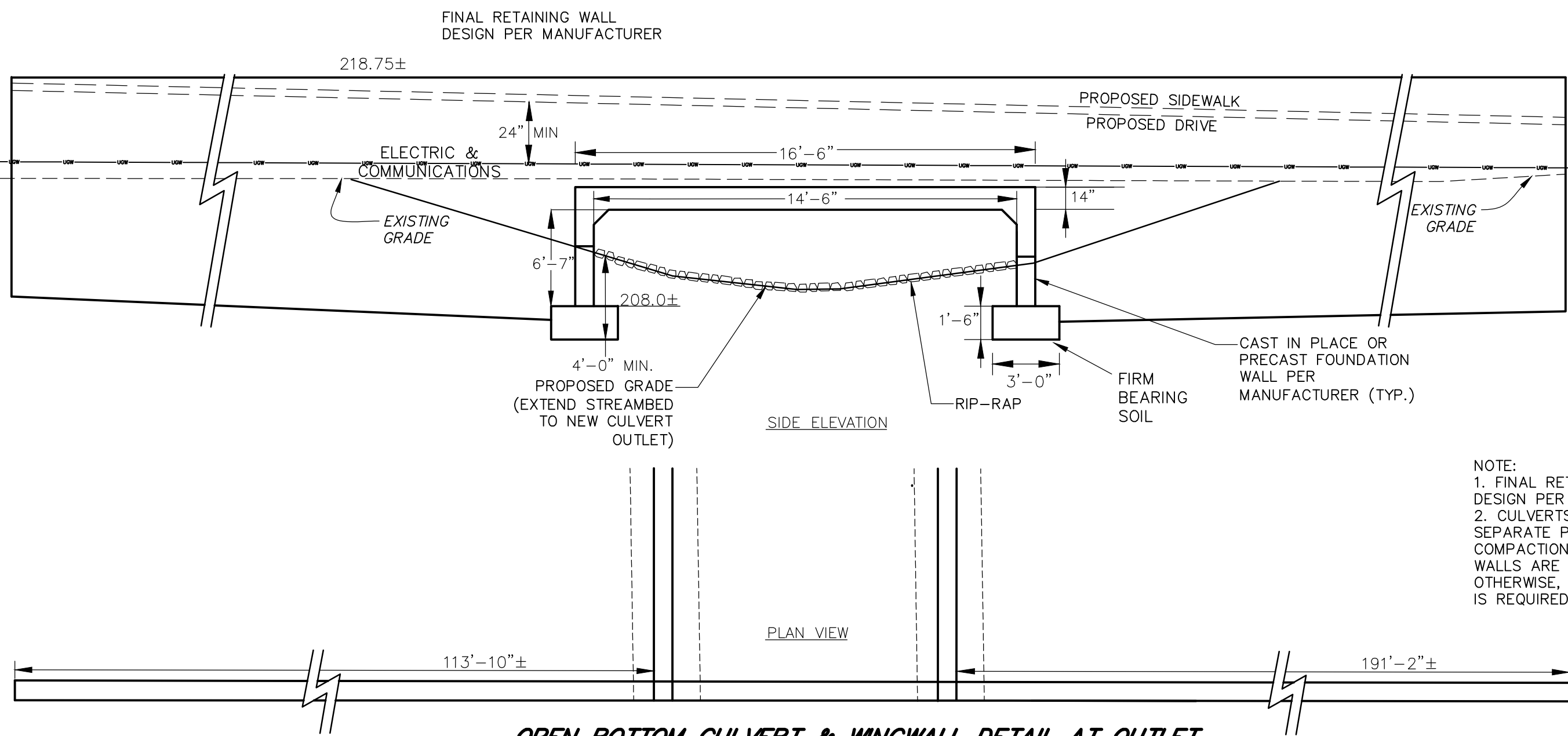
REvised: OCTOBER 26, 2022
REvised: JULY 6, 2023

STAMSKI AND McNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING



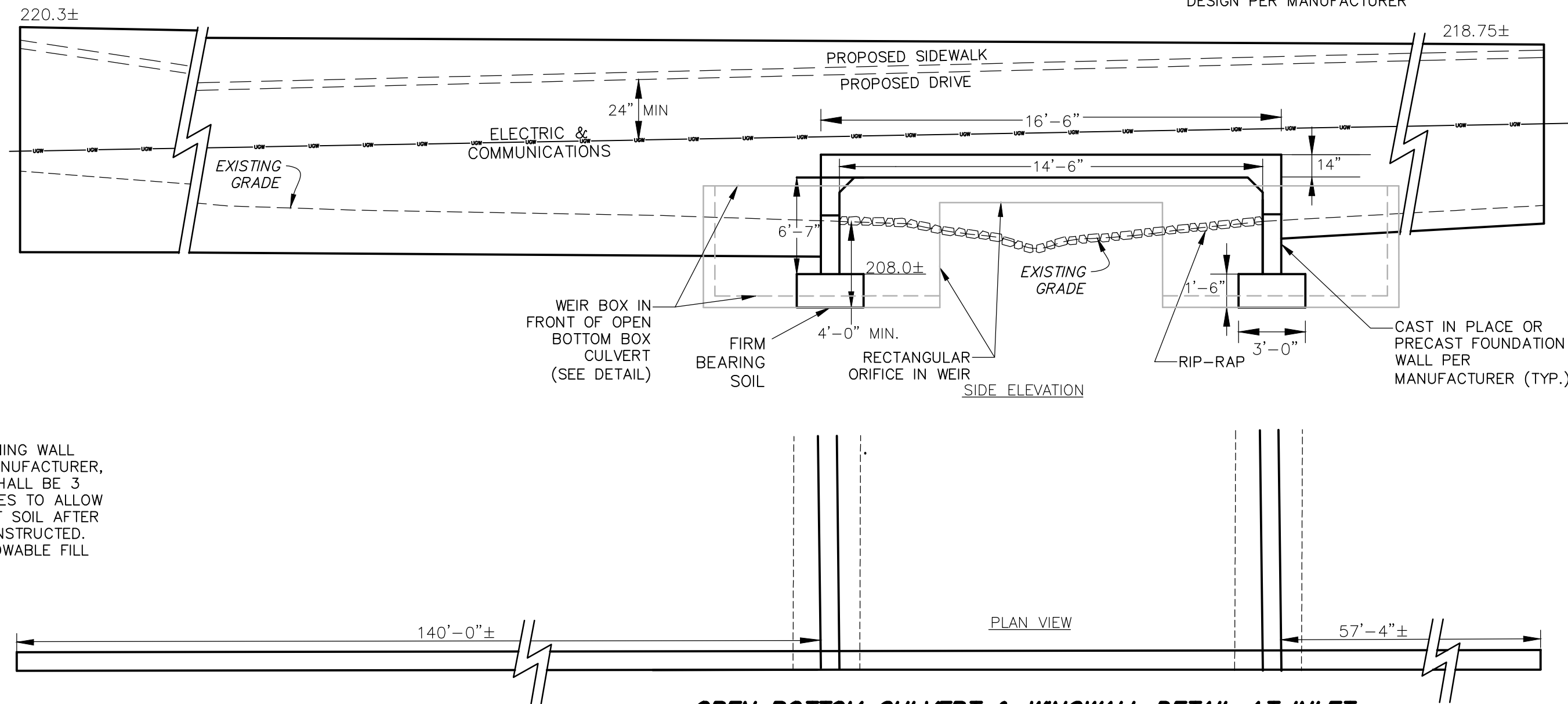
DEWATERING SILT SACK DETAIL

N.T.S.
AS MANUFACTURED BY ACF ENVIRONMENTAL



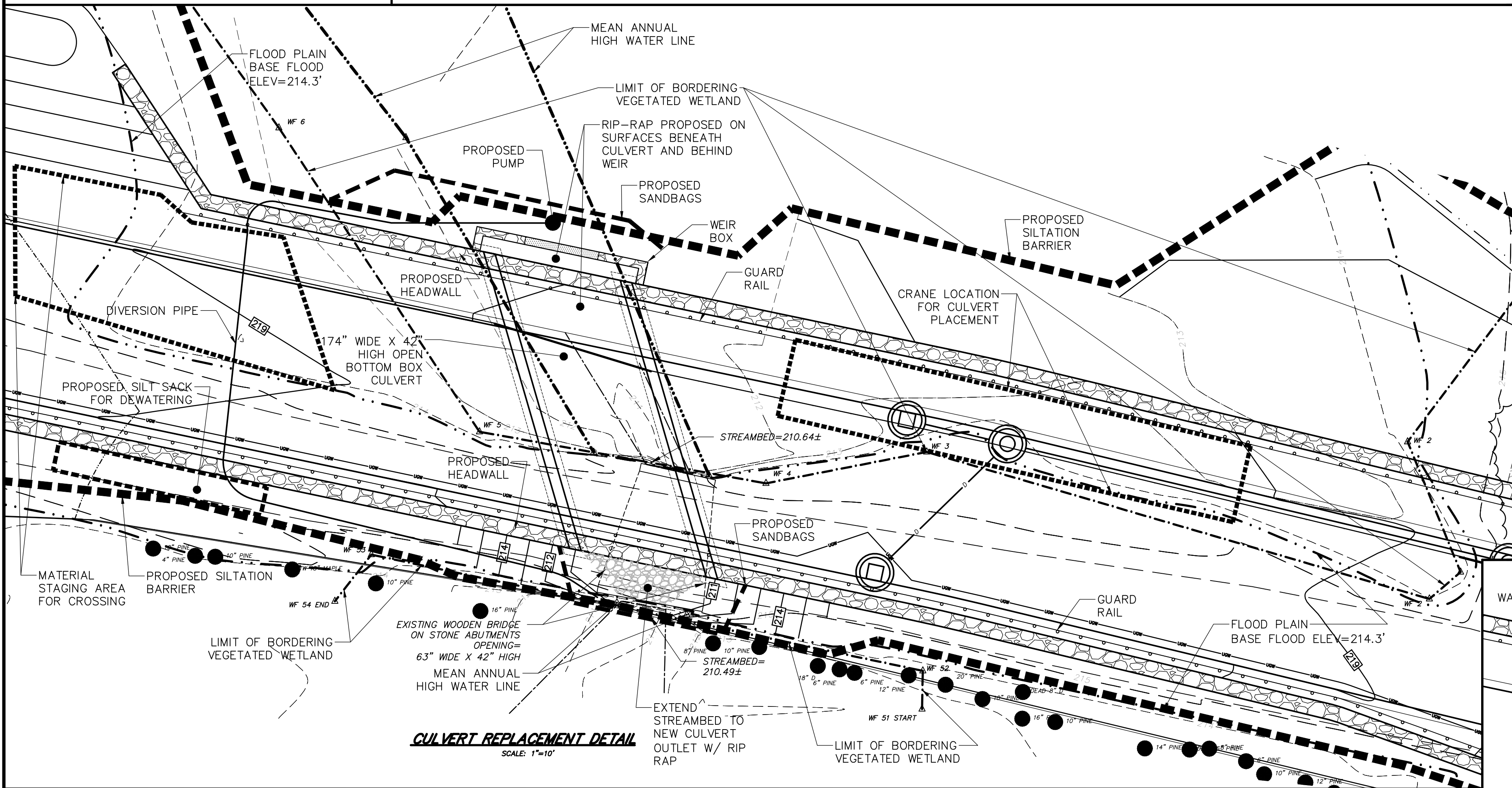
OPEN BOTTOM CULVERT & WINGWALL DETAIL AT OUTLET

N.T.S.



OPEN BOTTOM CULVERT & WINGWALL DETAIL AT INLET

N.T.S.

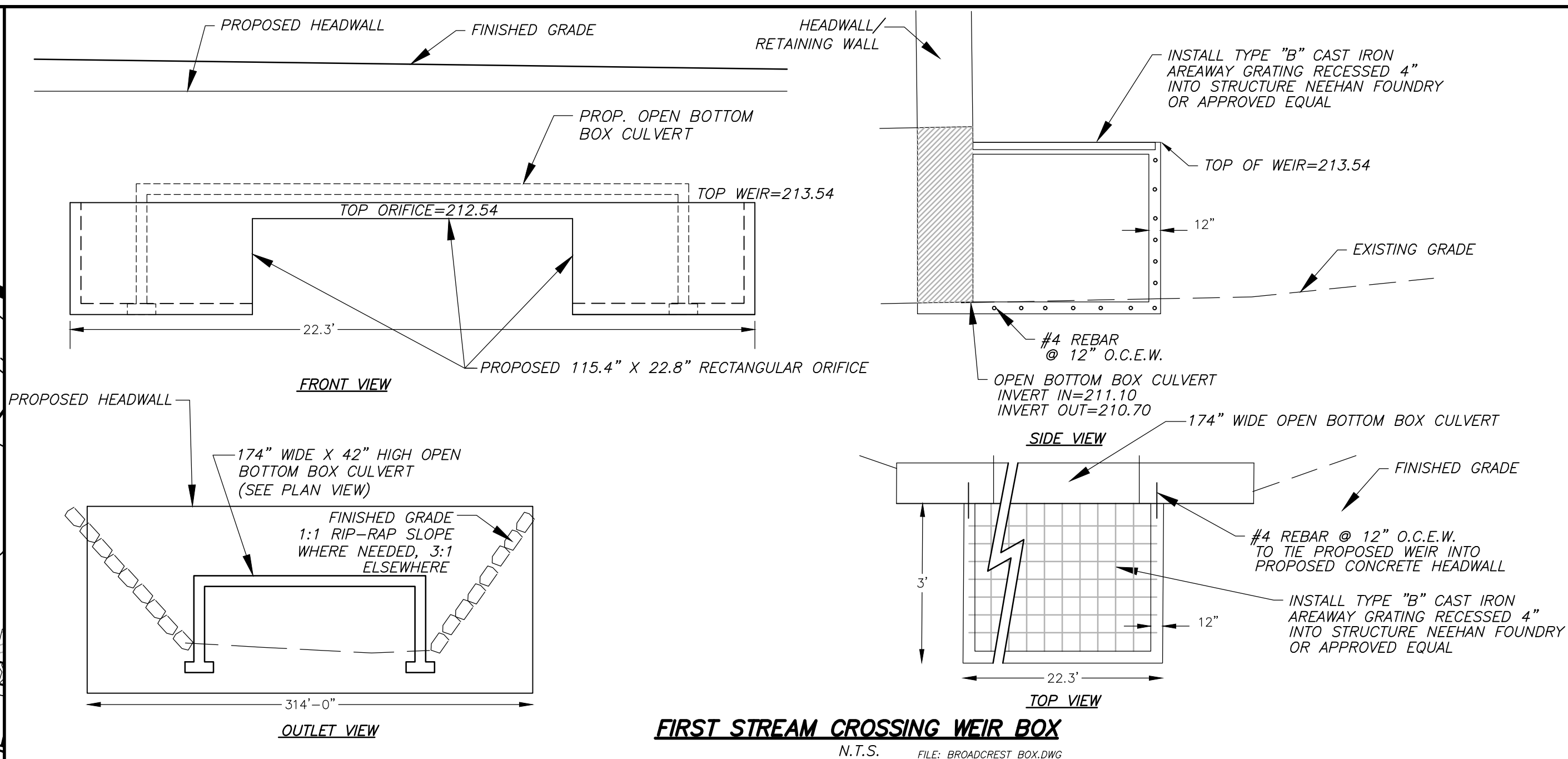


CULVERT REPLACEMENT DETAIL

SCALE: 1"=10'

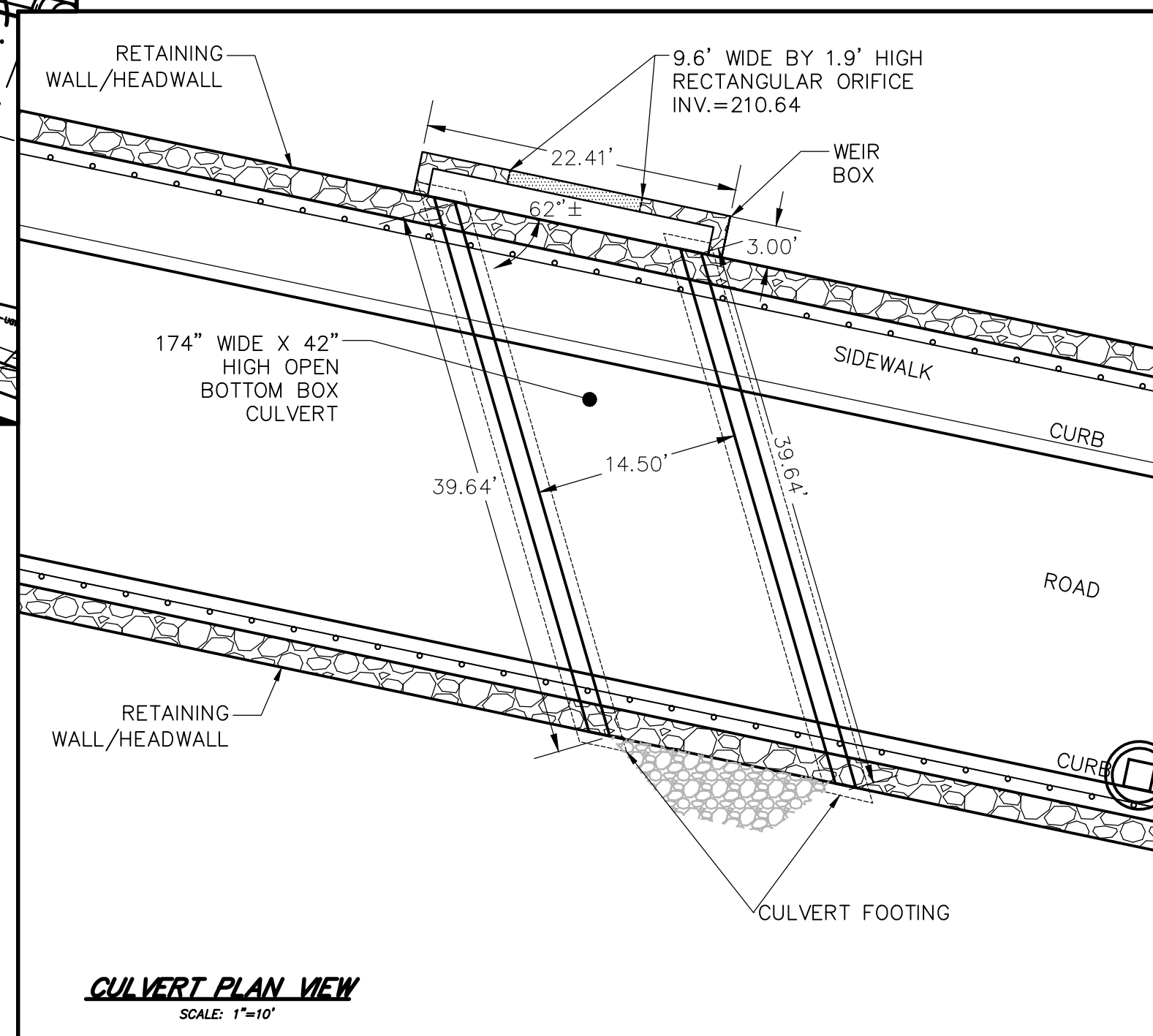
CONSTRUCTION SEQUENCE FOR WETLAND CROSSING

- 1) WORK SHALL NOT BE CONDUCTED DURING THE WET PERIOD, TYPICALLY MARCH 1 THROUGH MAY 1 UNLESS SPECIFIED IN WRITING BY THE CONSERVATION COMMISSION. WORK SHOULD BE CONDUCTED WHEN CROSSING IS AS DRY AS POSSIBLE.
- 2) INSTALL SILTATION BARRIER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AT ALL LOCATIONS SHOWN ON THE PLAN (STAKED BY THE DESIGN ENGINEER).
- 3) REFER TO NOTES ON DETAIL FOR CONSTRUCTION OF WETLAND REPLICATION AREA.
- 4) IF NEEDED, DIVERT WATER BY SETTING SAND BAGS JUST UP GRADIENT AND DOWN GRADIENT OF SILTATION BARRIER. CLEAN WATER MAY BE PUMPED FROM UP STREAM OF WORK AREA TO DOWN STREAM. DEWATERING FROM WORK AREA SHALL BE PUMPED TO A DEWATERING STILL LOCATED DOWN STREAM. DEWATERING STILL SHALL BE LOCATED IN UPLAND WITH NO DIRECT DISCHARGE TO BWV.
- 5) STRIP ORGANIC MATERIAL FROM AREA WITHIN WETLANDS CROSSING. MATERIAL SHALL BE USED IN THE REPLICATION AREA. INSTALL EROSION CONTROL AROUND SOIL STOCKPILE OF STRIPPED MATERIAL. COMPLETE WETLAND REPLICATION AREA IN COMPLIANCE WITH "WETLAND REPLICATION SCHEMATIC" AND "WETLAND REPLICATION CROSS SECTION A-A".
- 6) REMOVE EXISTING BRIDGE AND ABUTMENTS.
- 7) INSTALL CULVERT FOUNDATION.
- 8) INSTALL CULVERT WALLS, HEADWALLS, AND WEIR BOX.
- 9) PLACE 5"+ RIP-RAP IN AREAS BETWEEN CULVERT WALLS AND WEIR BOX.
- 10) BACKFILL AND COMPACT INTERIOR OF CULVERT.
- 11) INSTALL CULVERT TOP.
- 12) BACKFILL AND COMPACT CULVERT, HEADWALLS, AND WEIR BOX.
- 13) PLACE AND COMPACT GENERAL FILL AND GRAVEL FILL FOR DRIVEWAY WITHIN WETLAND CROSSING TO THE GRADES SHOWN ON THE PLAN.
- 14) STABILIZE SLOPES IN WETLAND FILL AREA WITH 4" OF LOAM AND HYDROSEEDING.
- 15) INSTALL PROPOSED UNDERGROUND UTILITIES.
- 16) INSTALL ROAD SURFACE TO THE WIDTH SHOWN ON THE PLAN.
- 17) LOAM AND SEED ALL DISTURBED SURFACES WHICH HAVE NOT BEEN STABILIZED.
- 18) REMOVE SILTATION BARRIERS AFTER ALL VEGETATION IS ESTABLISHED AND THE APPROVING AUTHORITY HAS ISSUED A CERTIFICATE OF COMPLIANCE.



FIRST STREAM CROSSING WEIR BOX

N.T.S. FILE: BROADCREST BOX.DWG



CULVERT PLAN VIEW

SCALE: 1"=10'

THE COTTAGES AT WANDERING POND
AN
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IN
STOW, MASSACHUSETTS
(MIDDLESEX COUNTY)
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FOR: THE COTTAGES AT WANDERING POND REALTY TRUST
SCALE: 1"=10' JUNE 30, 2022

REVISED: OCTOBER 26, 2022
REVISED: JULY 6, 2023

STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING

0 5 10 20 30 40 FT

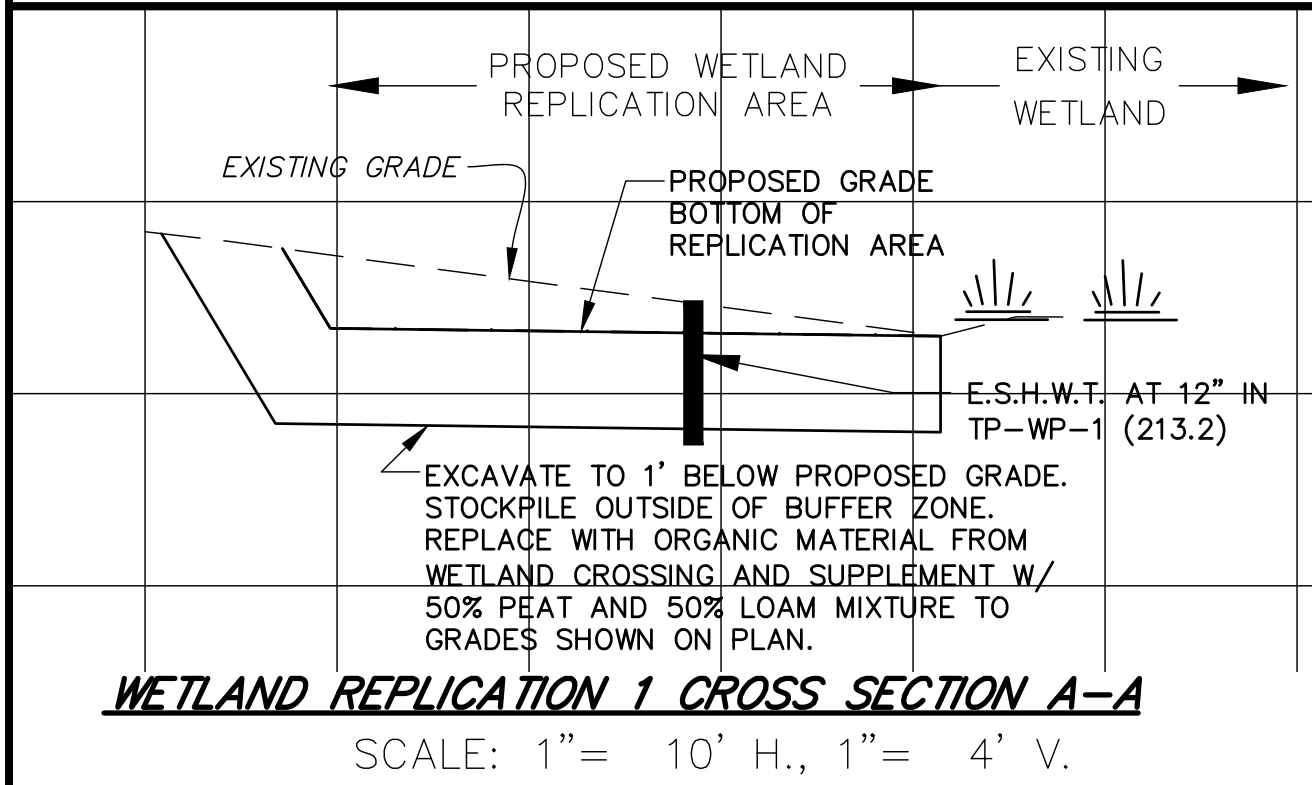
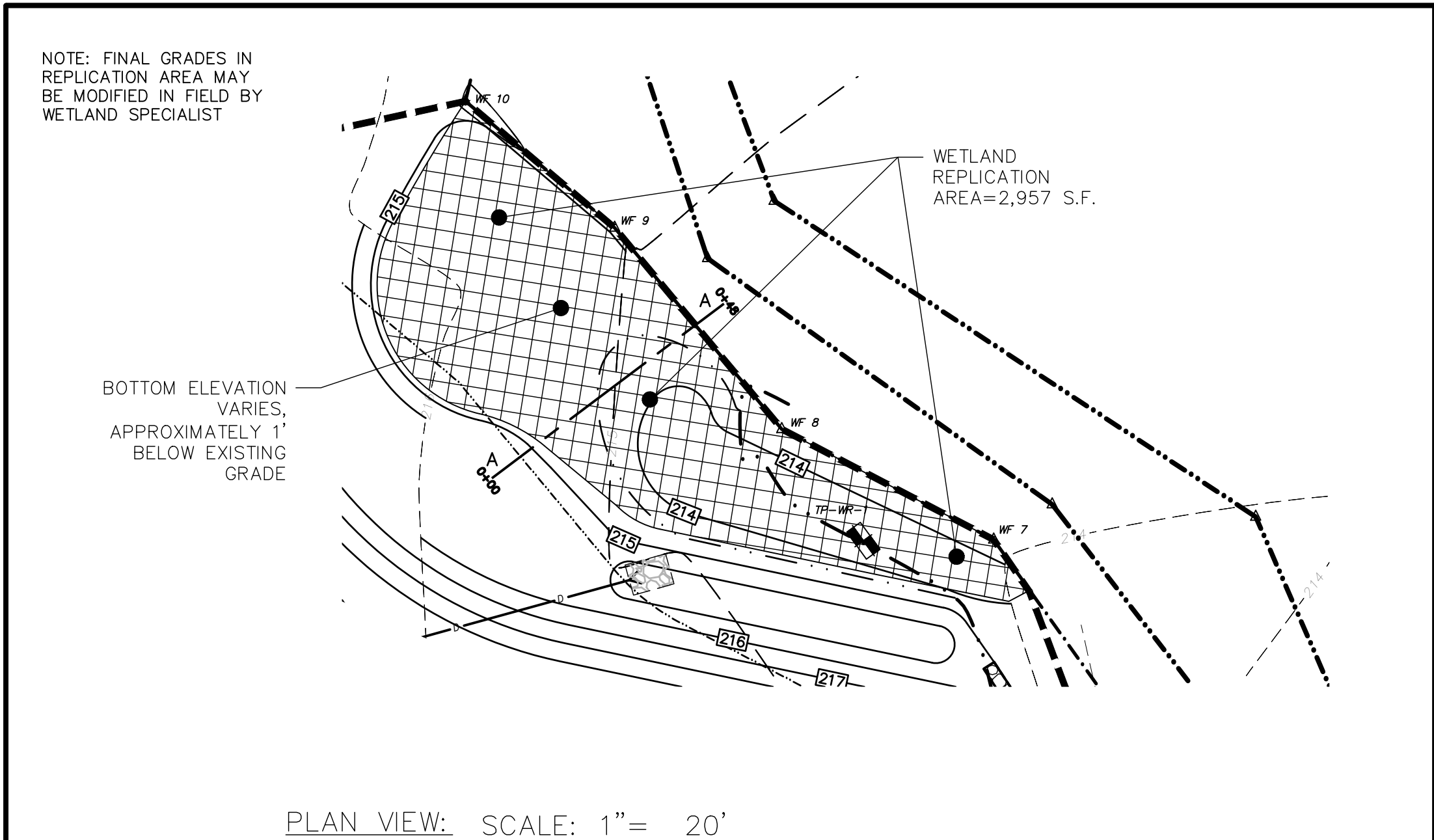
SM-3719C (3719C.STREAM CROSSING2.DWG) SHEET 72 OF 75



SECOND STREAM CROSSING WEIR BOX
N.T.S. FILE: BROADCAST BOX.DWG

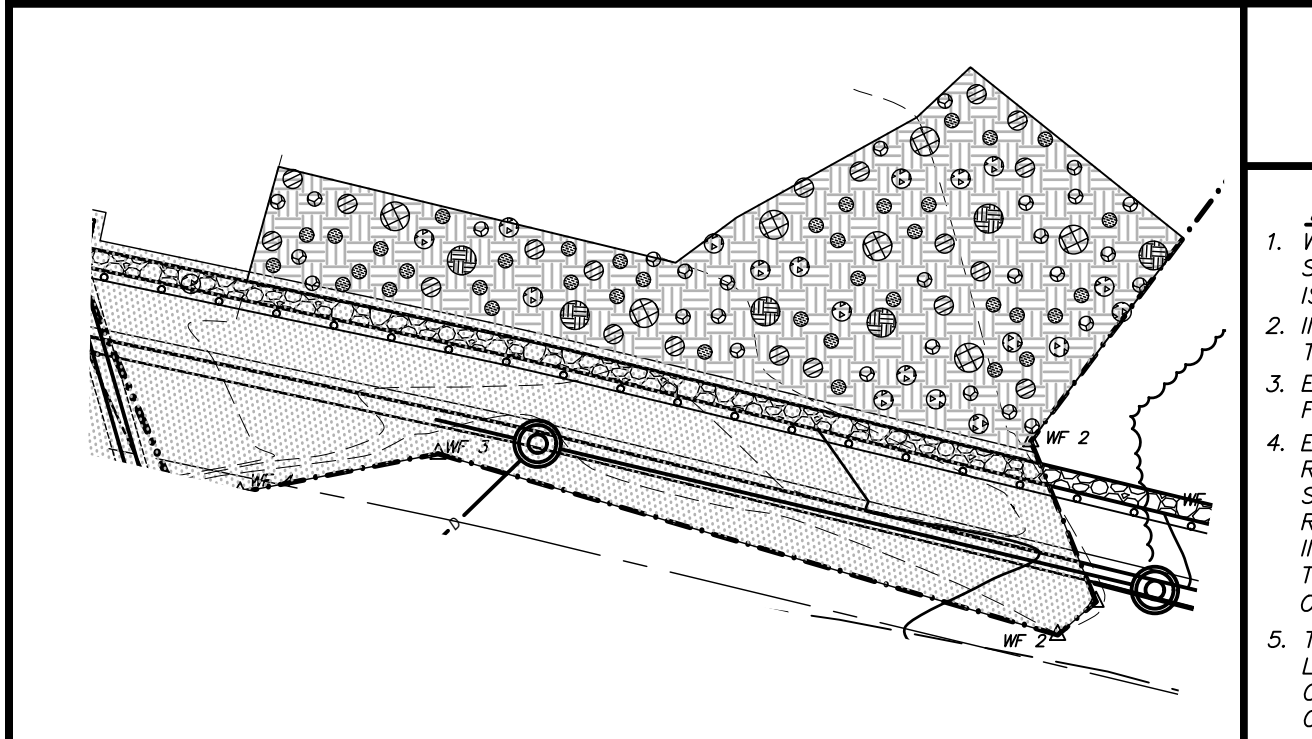


SM-3719C (3719C.STREAM CROSSING2.DWG) SHEET 73 OF 75



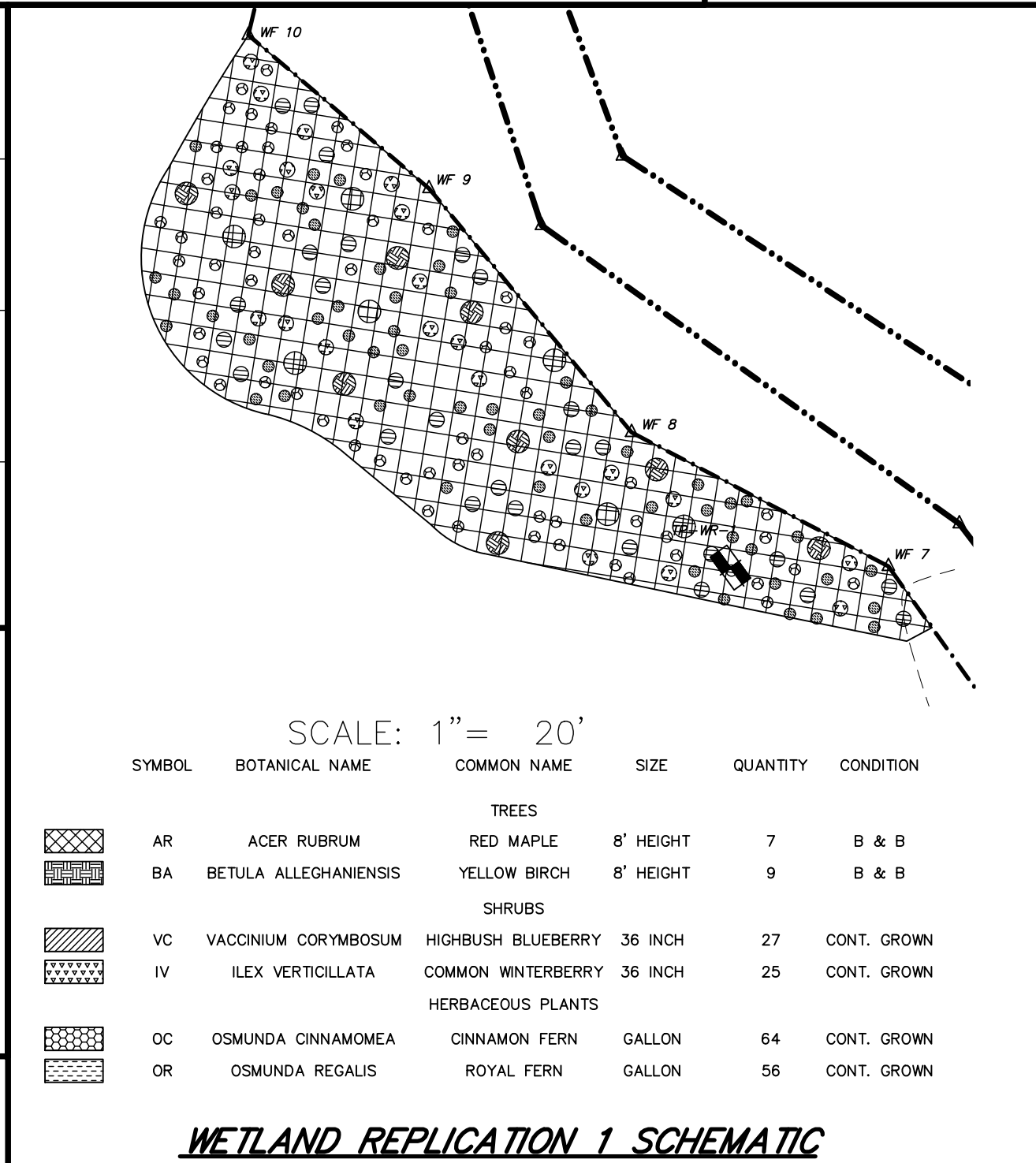
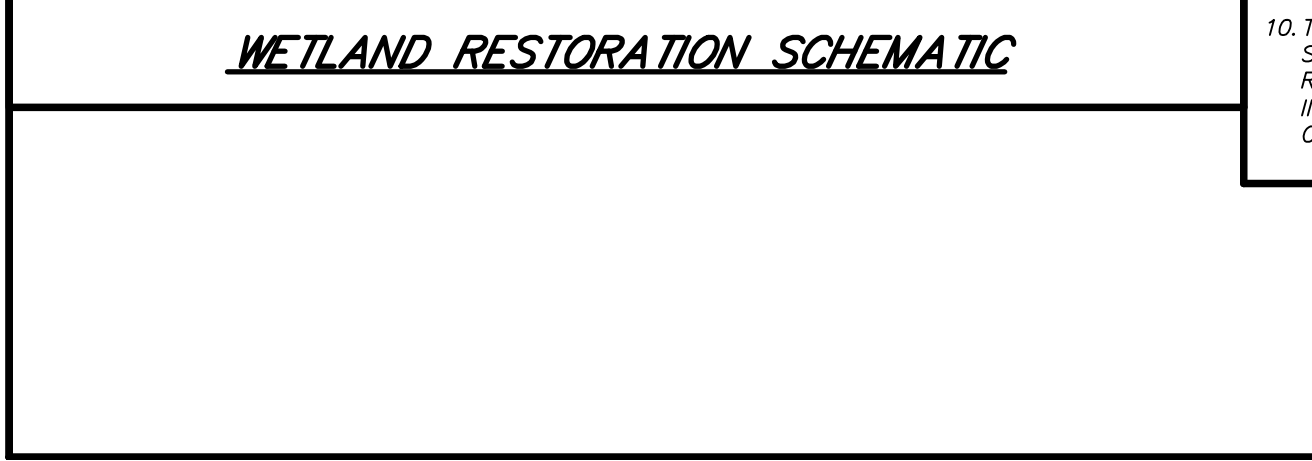
TP-WP-1 3/10/2023 214.20'
0-6" A SL 10YR 3/2 MASSIVE FRIABLE
6"-10" B LS 10YR 4/6 MASSIVE FRIABLE
10"-28" C LS 10YR 4/4 MASSIVE FRIABLE

MOTTLING OBS. @ 12"
NO G.W. OBS.
E.S.H.W.T.=12" (213.2)

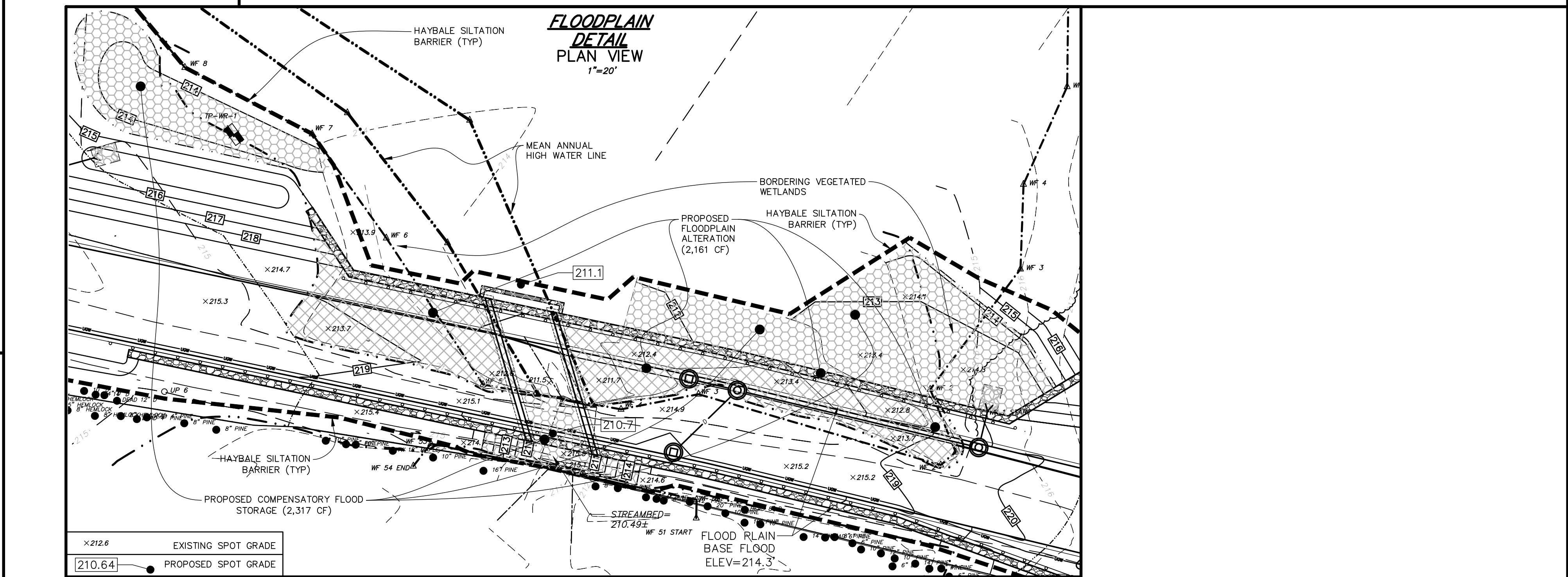
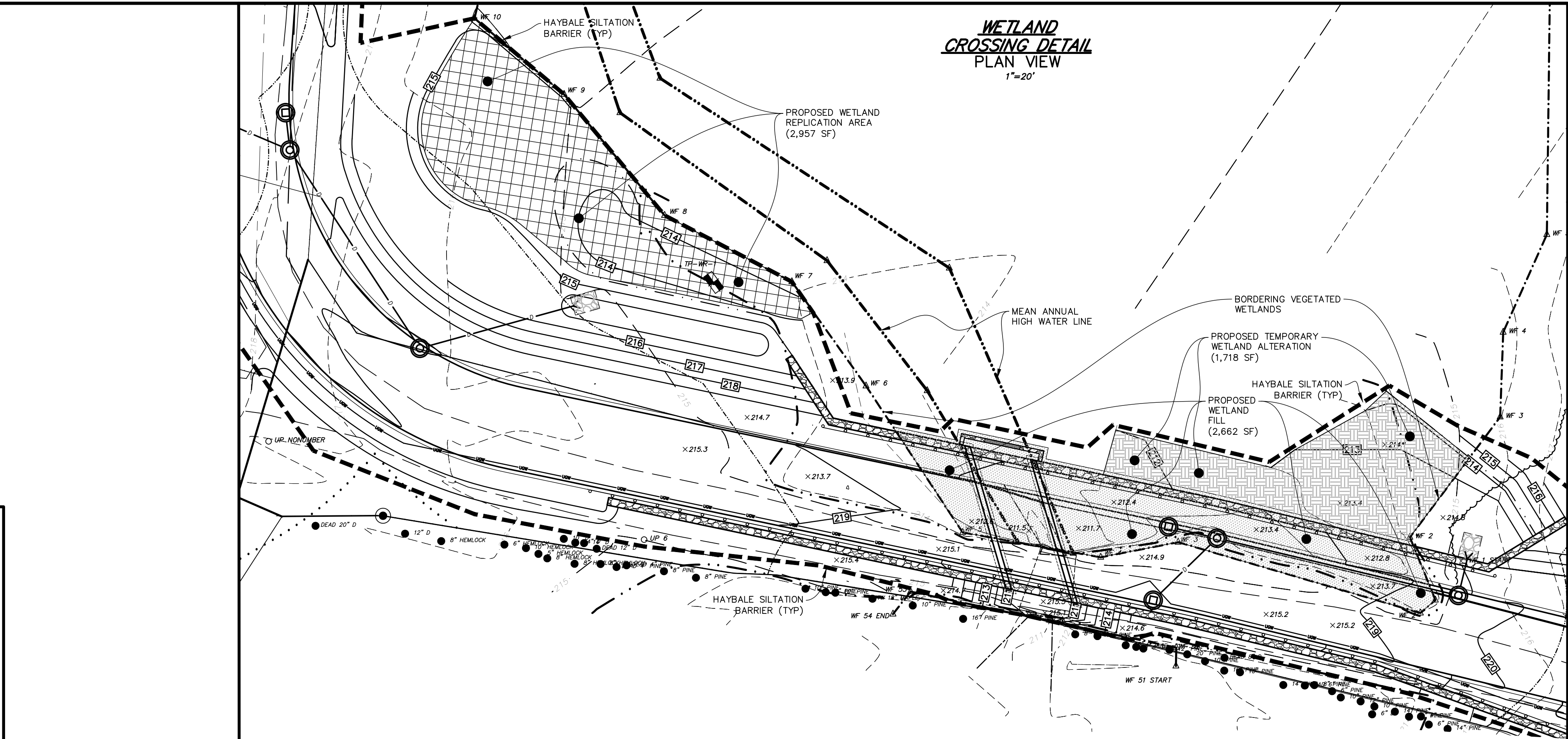


SCALE: 1"= 20'

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	CONDITION
AR	ACER RUBRUM	RED MAPLE	8' HEIGHT	7	B & B
BA	BETULA ALLEGHANIENSIS	YELLOW BIRCH	8' HEIGHT	6	B & B
VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	36 INCH	19	CONT. GROWN
IV	ILEX VERTICILLATA	COMMON WINTERBERRY	36 INCH	19	CONT. GROWN
OC	OSMUNDA CINNAMOMEA	CINNAMON FERN	GALLON	29	CONT. GROWN
OR	OSMUNDA REGALIS	ROYAL FERN	GALLON	39	CONT. GROWN



- PROCEDURE FOR CONSTRUCTION OF WETLAND REPLICATION AREA**
1. WORK SHALL NOT BE CONDUCTED DURING THE WET PERIOD, TYPICALLY MARCH 1 THROUGH MAY 1, UNLESS SPECIFIED IN WRITING BY THE CONSERVATION COMMISSION. WORK SHOULD BE CONDUCTED WHEN CROSSING IS AS DRY AS POSSIBLE.
 2. INSTALL AND MAINTAIN FILTERMITT ON THE EDGE OF THE EXISTING WETLAND ADJACENT TO PROPOSED REPLICATION AREA AND ADJACENT TO THE PROPOSED ROAD CROSSING OF WETLAND.
 3. EXCAVATE AND GRADE THE REPLICATION AREA TO A DEPTH OF APPROXIMATELY ONE FOOT BELOW THE FINAL GRADES SHOWN ON THE REPLICATION AREA PLAN.
 4. EXCAVATION OF WETLAND AREA TO BE DISTURBED BY DRIVEWAY CONSTRUCTION SHALL OCCUR AFTER THE REPLICATION WETLAND HAS BEEN EXCAVATED TO SUBGRADE. THE TOPSOIL OR PEAT FROM THE FILL AREA SHALL BE TRANSFERRED DIRECTLY TO THE REPLICATION AREA. DO NOT REMOVE VEGETATION, SHRUBS, ROOTBALLS OR SMALL TREE STUMPS. TRIM VEGETATION TO MAKE IT WORKABLE. PLACE ALL ROOT CLUSTERS IN REPLICATION AREA. STOCKPILING OF MATERIAL WITH EROSION CONTROL SHALL BE ALLOWED ONLY TEMPORARILY. ADDITIONAL FILL REQUIRED TO BRING REPLICATION AREA TO GRADE SHALL BE COMPOSED OF A 50% PEAT AND 50% LOAM MIXTURE.
 5. THE REPLICATION AREA SHOULD BE GRADED TO BE LEVEL WITH THE ADJACENT NATURAL WETLAND. HAND LEVELING AND RAKING SHALL BE USED TO AVOID SOIL COMPACTION. ANY BERMS RESULTING BETWEEN THE CREATED AND NATURAL WETLANDS SHOULD BE REMOVED TO ALLOW UNRESTRICTED HYDRAULIC CONNECTION.
 6. REPLICATION AREA SHALL THEN BE PLANTED ACCORDING TO THE WETLAND REPLICATION SCHEMATIC. EXPOSED SOILS IN REPLICATION AREA SHALL THEN BE SEEDED WITH NEW ENGLAND WETMIX, BY NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUAL AT 1 LB/5000 SF.
 7. SIDE SLOPES AT THE REPLICATION AREA SHALL NOT EXCEED A 2:1 SLOPE AND SHALL IMMEDIATELY BE LOAMED AND SEEDED.
 8. AFTER THE REPLICATION AREA HAS BEEN CONSTRUCTED, FILTERMITT SHALL BE PLACED BETWEEN THE REPLICATION AREA AND ANY DISTURBED UPLAND AREAS TO PREVENT SILTATION OF THE REPLICATION AREA.
 9. IF AFTER ONE GROWING SEASON, WETLAND VEGETATION HAS NOT BECOME ESTABLISHED ON THE REPLICATION AREA FLOOR, A WETLANDS REPLICATION AREA PLANTING PLAN SHALL BE CARRIED OUT UNDER THE SUPERVISION OF THE STOW CONSERVATION COMMISSION CONSISTING OF THE FOLLOWING :
A)A 50% PEAT AND 50% LOAM MIXTURE SHALL BE HAND SPREAD THROUGHOUT REPLICATION AREAS TO LEVEL SURFACE.
B)REPLICATION AREA PLANTINGS SHALL THEN BE SUPPLEMENTED WITH AN EQUAL DISTRIBUTION OF RED MAPLE SAPPLINGS, HIGH BUSH BLUEBERRY, AND CINNAMON FERN, SET AT 5' RANDOM SPACING WHERE NEEDED.
C)REPLICATION AREA SHALL THEN BE SEEDED WITH NEW ENGLAND WETMIX, BY NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUAL AT 1 LB/5000 SF OVER EXPOSED SOILS.
 10. THE REPLICATION AREA (EITHER VEGETATED NATURALLY OR WITH COMMERCIALLY PURCHASED SUPPLEMENTS) SHALL BE INSPECTED AT THE END OF THE FIRST AND SECOND GROWING SEASONS. REPLANTING AND REPAIRS SHOULD BE SCHEDULED AS NEEDED TO PROVIDE ADEQUATE COVER. IF INVASIVES HAVE TAKEN HOLD IN THE REPLICATION AREA, AN INVASIVE REMOVAL PLAN SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITH A PLAN TO REMOVE AND VEGETATE WITH NATIVE PLANTS.



FILLED FLOOD STORAGE VOLUME

ELEVATION	AREA (S.F.)	AVERAGE AREA (S.F.)	VOLUME (C.F.)	CUMULATIVE VOLUME (C.F.)
211.5	0	0	0	0
212	459	229.5	114.75	114.75
213	956	707.5	707.5	822.25
214	1244	1100	1100	1922.25
214.3	349	796.5	239.0	2161.2
TOTAL FLOOD STORAGE VOLUME (C.F.)				2161

COMPENSATORY FLOOD STORAGE VOLUME

ELEVATION	AREA (S.F.)	AVERAGE AREA (S.F.)	VOLUME (C.F.)	CUMULATIVE VOLUME (C.F.)	INCREMENTAL COMPENSATORY STORAGE
211.5	0	0	0	0	N/A
212	480	240	120	120	105%
213	1236	858	858	978	119%
214	1088	1162	1162	2140	111%
214.3	476	782	234.6	2375	110%
TOTAL FLOOD STORAGE VOLUME (C.F.)				2375	110%

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1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING

0 20 40 80 120 160 FT

SM-3719C (3719C WETLANDREP.DWG) SHEET 74 OF 75

