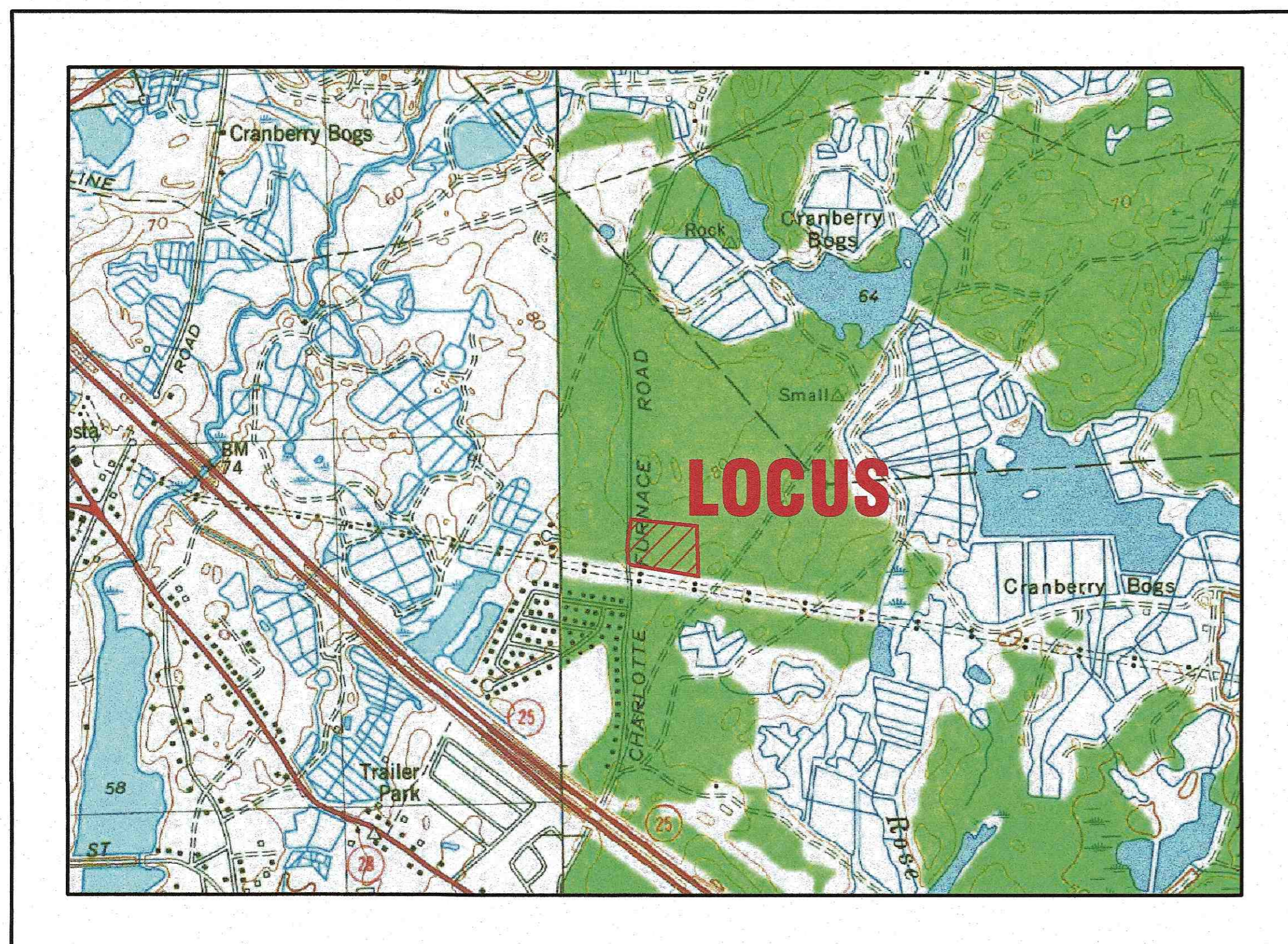


MASTER MILLWORK, INC.

SITE DEVELOPMENT PLAN 55 CHARLOTTE FURNACE ROAD WAREHAM, MASSACHUSETTS

OWNER: MASTER MILLWORK, INC.
41 MEETING HOUSE LANE, SUITE 11
SAGAMORE BEACH, MA 02562

APPLICANT: MASTER MILLWORK, INC.
41 MEETING HOUSE LANE, SUITE 11
SAGAMORE BEACH, MA 02562



— U.S.G.S. LOCUS PLAN —
SCALE: 1"=1000'



— AERIAL OVERVIEW —
SCALE: 1"=200'

SITE DATA

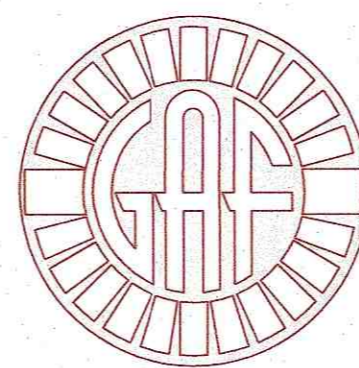
ZONING DISTRICT: BD0D
ASSESSOR'S MAP: 105
ASSESSOR'S LOTS: MA2
REQUIRED LOT AREA: 87,120 S.F.
MIN. FRONTAGE: 100'
MIN. FRONT SETBACK: 25'
MIN. SIDE & REAR SETBACK: 10'
MAX. PRINCIPAL BUILDING HEIGHT: 40'
MAX. BUILDING COVERAGE: 25%
MAX. FLOOR AREA RATIO: 75%
MAX. IMPERVIOUS COVERAGE: 65%
WATER SUPPLY: TOWN WATER
SANITARY SEWER: ON SITE SEPTIC
LANDSCAPE BUFFER: 10'

ZONING DATA:

ZONING TABLE	ALLOWED	EXISTING	PROVIDED
LOT AREA:	87,120 S.F.	261,408 S.F.	(SAME AS EXISTING)
FRONT SETBACK:	25'	178.8'	(SAME AS EXISTING)
SIDE SETBACK:	10'	40.3'	(SAME AS EXISTING)
REAR SETBACK:	10'	217.0'	64.3'
MAX. BUILDING COVERAGE:	25%	7.7%	24.1%
MAX. LOT COVERAGE:	65%	23.9%	56.1%

FLOOD ZONE DATA:

THE ENTIRE LOCUS IS LOCATED IN FLOOD ZONE X, AS INDICATED ON FEMA FIRM MAP# 25023C0486J DATED: JULY 17, 2012.



G. A. F. ENGINEERING, INC.
PROFESSIONAL ENGINEERS & LAND SURVEYORS
266 MAIN STREET, WAREHAM, MA 02571
TEL: (508) 295-6600 FAX: (508) 295-6634
E-MAIL: info@gafenginc.com

JULY 8, 2020

PLAN INDEX:

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	EXISTING CONDITIONS & DEMOLITION
4	LAYOUT & UTILITIES
5	GRADING & DRAINAGE
6	LANDSCAPING PLAN
7	DETAIL SHEET 1
8	DETAIL SHEET 2
9	DETAIL SHEET 3
10	DETAIL SHEET 4
ARCH.-1	PLAN VIEW
ARCH.-2	ELEVATIONS
RAB-1	LIGHTING PLAN

PARKING DATA:

REQUIRED (OFFICE): 1 SPACE PER 250 S.F. G.F.A.
10,000 S.F./250 S.F.=40 SPACES
REQUIRED (WAREHOUSE): 1 SPACE PER 1.5 EMPLOYEES ON
LARGEST SHIFT PLUS ONE PER VEHICLE STORED ON PREMISES.
PROPOSED NUMBER OF EMPLOYEES=50
NUMBER OF PARKING SPACES REQUIRED=34

TOTAL REQUIRED: 74 SPACES
PROVIDED: 81 SPACES (EXISTING & PROPOSED)

DATE	REV.	BY	DATE	DESCRIPTION
5/4/22	6	JMP	5/4/22	NO CHANGES THIS SHEET
3/4/22	5	JMP	3/4/22	NO CHANGES THIS SHEET
3/15/21	4	JMP	3/15/21	NO CHANGES THIS SHEET
9/2/20	3	JMP	9/2/20	REV. PARKING SCHEDULE/LOT COVERAGE
8/20/20	2	JMP	8/20/20	REV. ZONING DATA TABLE/PLAN INDEX
8/10/20	1	JMP	8/10/20	NO CHANGES THIS SHEET

DATE: JULY 8, 2020	APPROVED BY:
DRAWN BY: JMP	
CHECKED BY: WFM	
JOB NO.: 19-9342	
SCALE: AS NOTED	

G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafenginc.com	G.A.F. ENGINEERING, INC. WAREHAM, MA

JOB NO.: 19-9342	DWG. 1 OF 10
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GENERAL NOTES:

- 1. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING...

CONSTRUCTION NOTES:

- 1. IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.

- 13. ALL SEWER AND PLUMBING WORK SHALL CONFORM WITH 248 CMR 10.00 UNIFORM STATE PLUMBING CODE AND THE TOWN OF WAREHAM SEWER DEPARTMENTS SPECIFICATIONS.

EROSION CONTROL NOTES:

- 1. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE.

DRAINAGE OPERATION AND MAINTENANCE SCHEDULE:

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PERIOD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OUTLINE BELOW SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE FACILITIES.

- 1. IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AND THE AFFECTED AREAS STABILIZED (LOAM AND SEED, HYDROSEED, PLANTED, RIP-RAP, ETC.). PERMANENT STABILIZATION OF THESE AREAS SHALL BE STARTED AS SOON AS POSSIBLE.

POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN:

UPON THE COMPLETION OF CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY THE OWNER OR OWNER'S AGENT ON THE SITE. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.

- 1. PARKING LOT SWEEPING IS AN EFFECTIVE NONSTRUCTURAL SOURCE CONTROL THAT WILL REMOVE SEDIMENT FROM PAVED SURFACES. PARKING LOT SWEEPING SHOULD BE DONE BY THE USE OF A HIGH EFFICIENCY VACUUM SWEEPER OR REGENERATIVE AIR SWEEPER.

DRAINAGE INSTALLATION NOTES:

- 1. ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED, ARE TO BE ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. REFER TO PLAN FOR LOCATION, SIZES AND SLOPES.

PERMIT SET (NOT FOR CONSTRUCTION)

DEMOLITION NOTES:

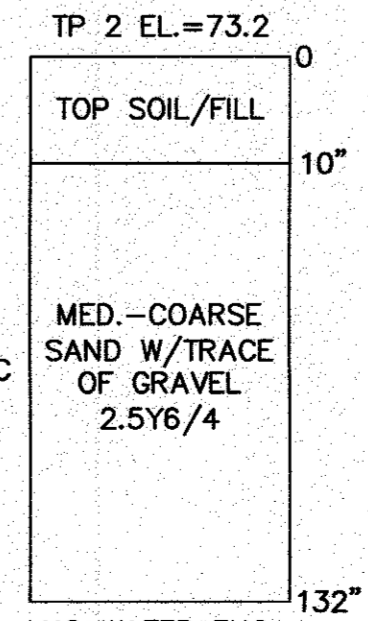
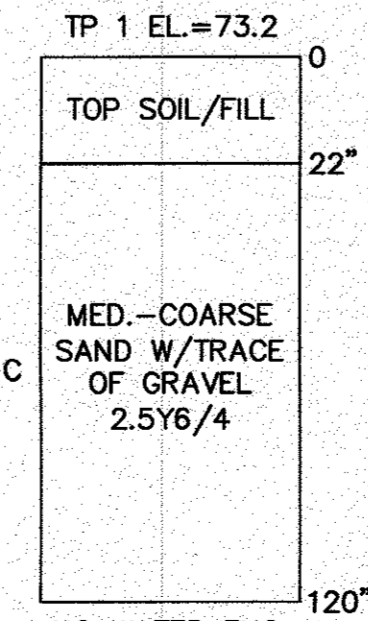
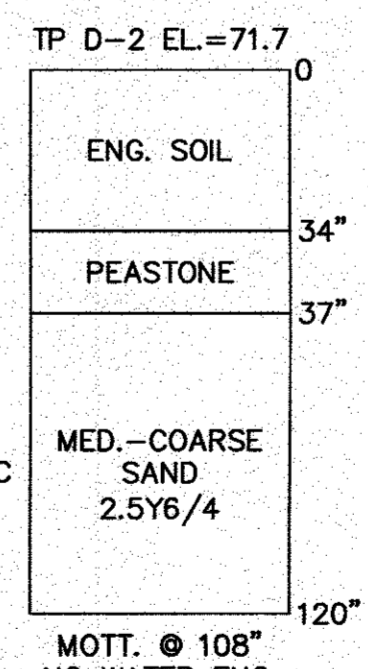
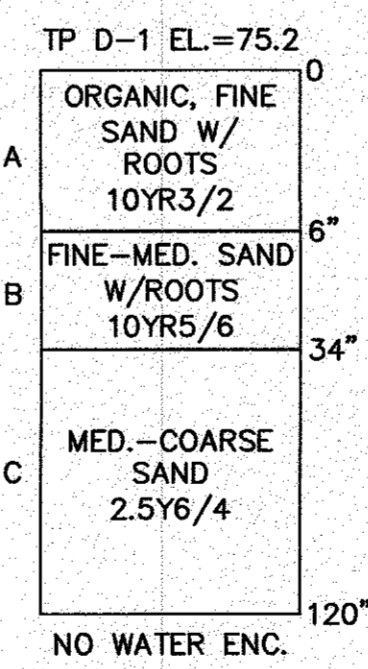
- 1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK.

WATER INSTALLATION NOTES:

- 1. ALL WATER MAINS, SERVICES, GATE VALVES/GATE BOX, CURB STOPS, HYDRANTS, FITTINGS, ETC. & METHOD OF INSTALLATION SHALL CONFORM TO THE TOWN OF WAREHAM FIRE DISTRICT RULES & REGULATIONS.

TEST PIT DATA

DATE OF TESTING: AUGUST 22, 2019
PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING INC.
REFER TO EXISTING CONDITIONS & DEMOLITION PLAN FOR TEST PIT LOCATIONS



ABBREVIATIONS

Table listing abbreviations for materials and structures such as AC (Asbestos Concrete), ADS (Advanced Drainage System), and various pipe types.

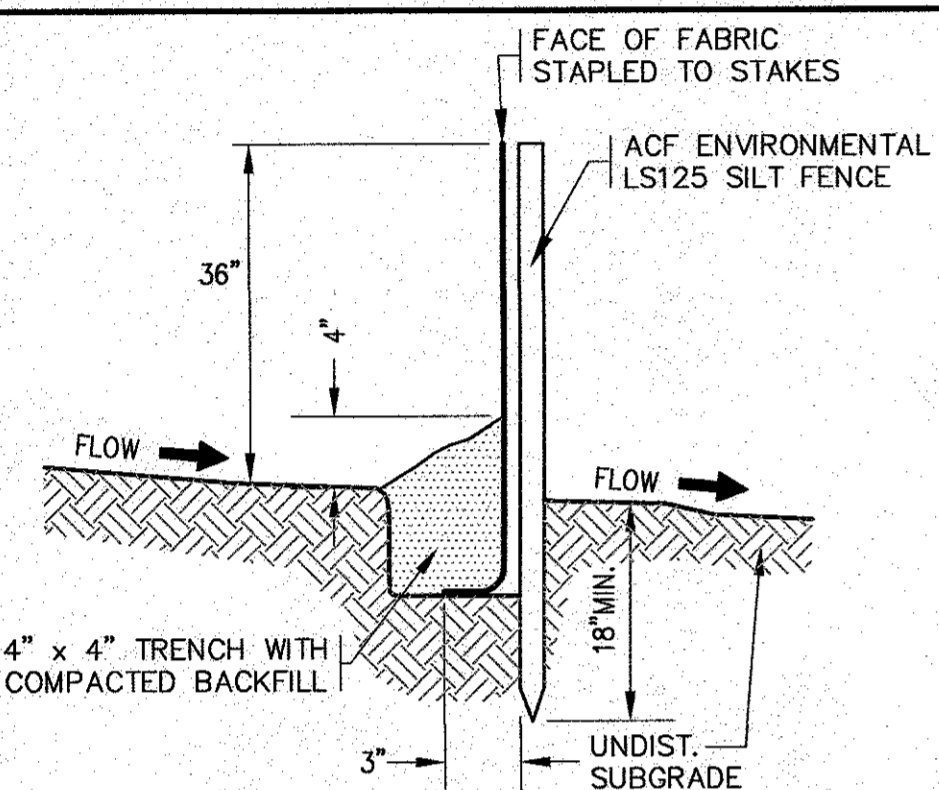
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Professional seal and contact information for G.A.F. ENGINEERING, INC. and MASTER MILLWORK, INC.

LEGEND table listing symbols for EXISTING and PROPOSED features like contours, wetlands, flood zones, and various utility lines.

NOTES:

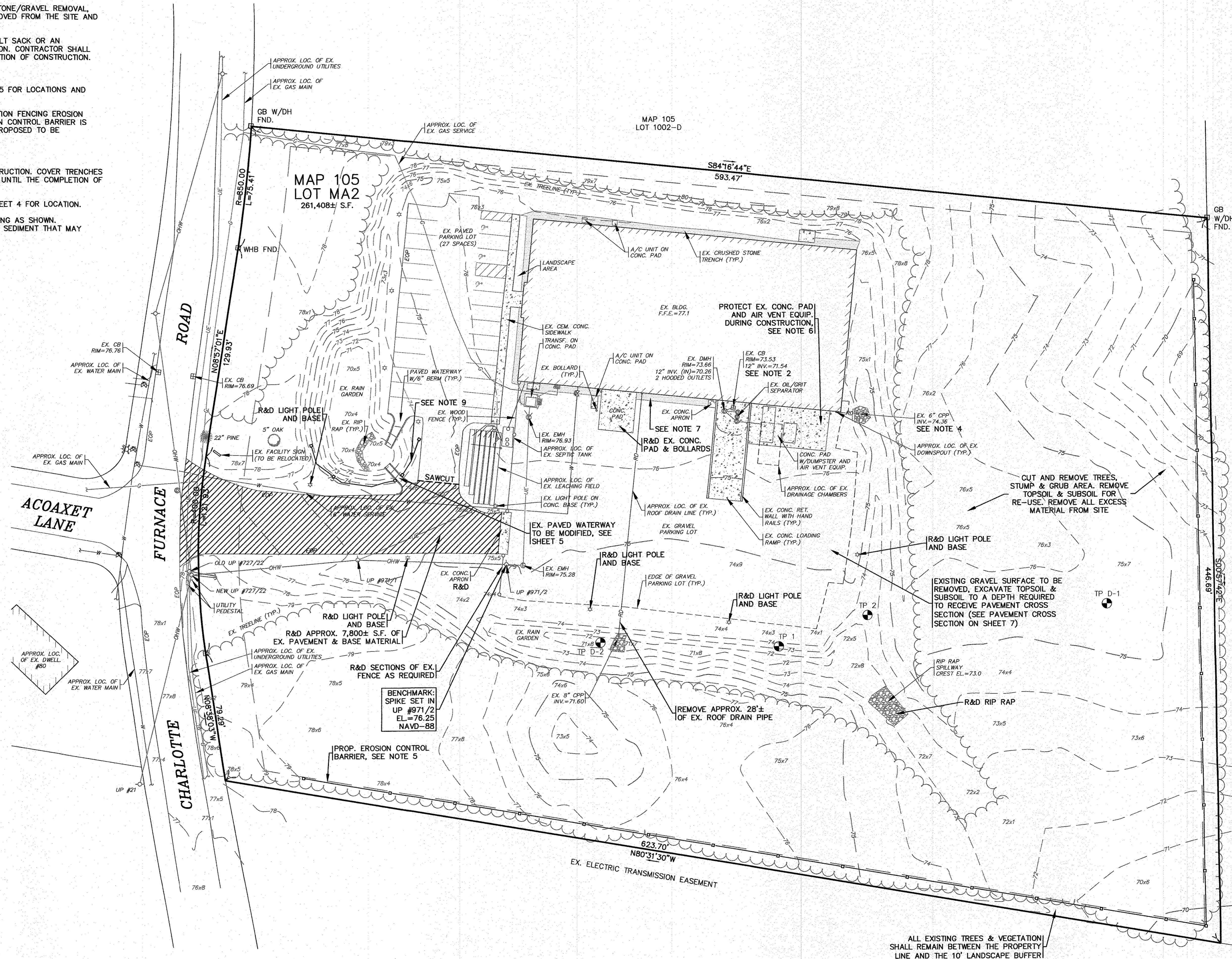
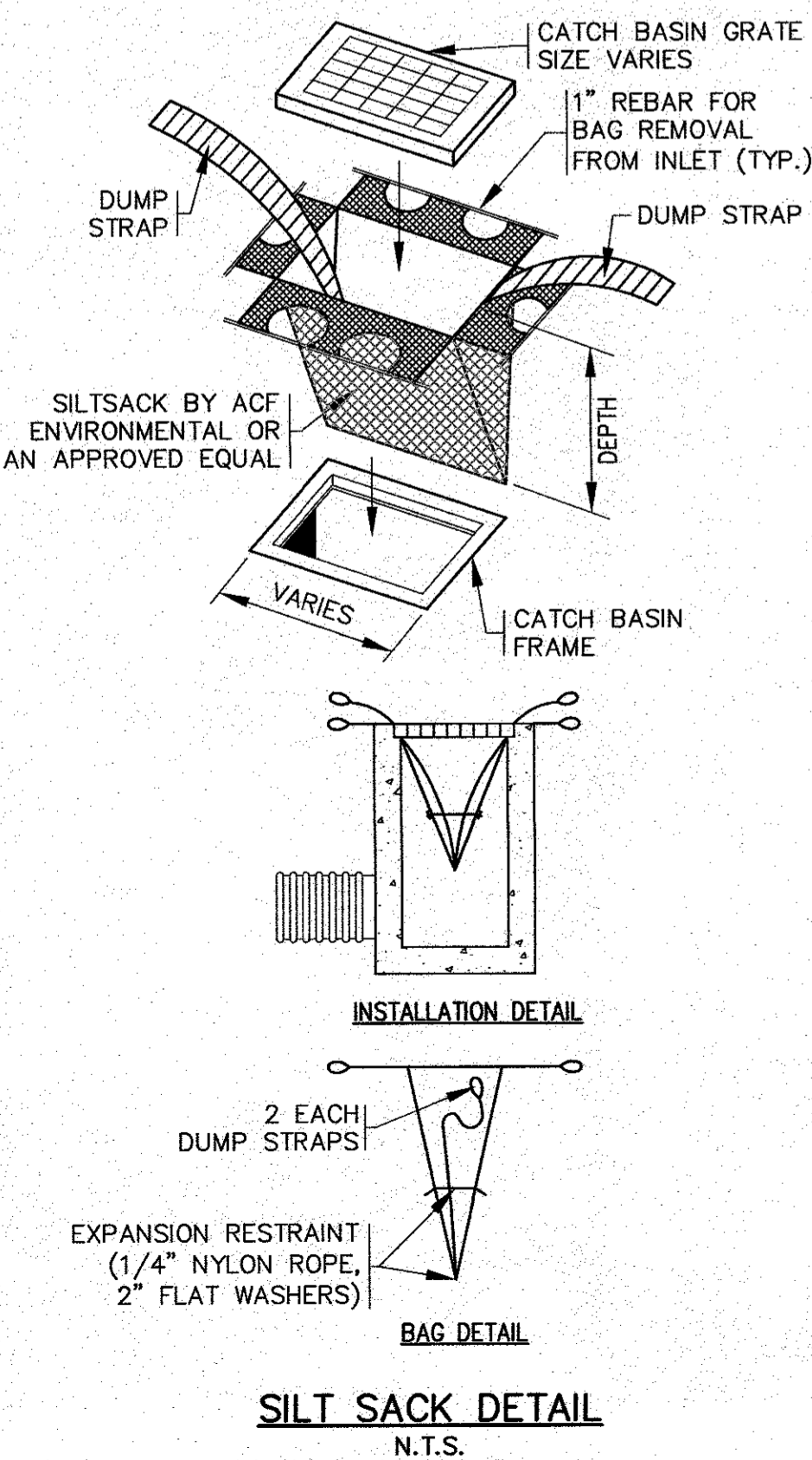
1. ALL DEBRIS FROM DEMOLITION INCLUDING PIPE REMOVAL, STONE/GRAVEL REMOVAL, TREE CLEARING, STUMPING, GRUBBING, ETC. SHALL BE REMOVED FROM THE SITE AND NOT STOCKPILED.
2. ALL EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK OR AN APPROVED EQUAL INSTALLED WITHIN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT SACKS AT THE COMPLETION OF CONSTRUCTION.
3. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
4. EXISTING ROOF DRAIN PIPE TO BE RELOCATED. SEE SHEET 5 FOR LOCATIONS AND ELEVATIONS.
5. CONTRACTOR SHALL PROVIDE AND MAINTAIN STAKED SILTATION FENCING EROSION CONTROL BARRIER. SEE PLAN FOR LOCATIONS. THE EROSION CONTROL BARRIER IS SHOWN OFFSET FOR CLARITY. NO WORK SHALL BE OR IS PROPOSED TO BE PERFORMED BEYOND THE 10' LANDSCAPE BUFFER.
6. EXISTING DUMPSTER LOCATION TO REMAIN THE SAME.
7. PROTECT EXISTING CRUSHED STONE TRENCH DURING CONSTRUCTION. COVER TRENCHES WITH AN ADDITIONAL TEMPORARY LAYER OF FIBRIC UNTIL THE COMPLETION OF CONSTRUCTION.
8. THE EXISTING FACILITY SIGN SHALL BE RELOCATED. SEE SHEET 4 FOR LOCATION.
9. PROTECT THE EXISTING RAIN GARDEN WITH SILTATION FENCING AS SHOWN. CONTRACTOR SHALL REMOVE AND DISPOSE ANY DEBRIS OR SEDIMENT THAT MAY ACCUMULATE DURING CONSTRUCTION.



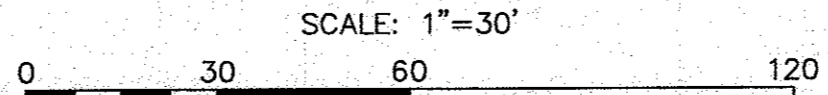
NOTES:

1. SILTATION FENCE SHALL BE ACF ENVIRONMENTAL LS125 SILT FENCE OR AN APPROVED EQUAL.
2. SILTATION FENCING SHALL BE INSTALLED DOWNSLOPE OF ALL PROPOSED AND EXISTING DISTURBED AREAS, OR AS SHOWN ON THE PLANS.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATIVE OR STABILIZED COVER HAS BEEN FIRMLY ESTABLISHED.
4. EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

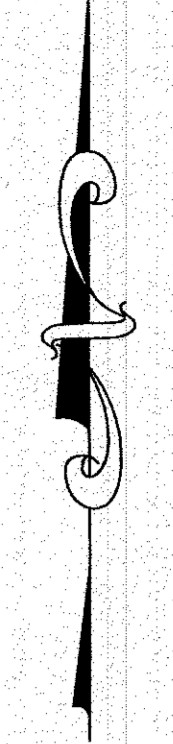
EROSION CONTROL BARRIER
N.T.S.



EX. CONDITIONS AND DEMOLITION



MAP 105
LOT S-A



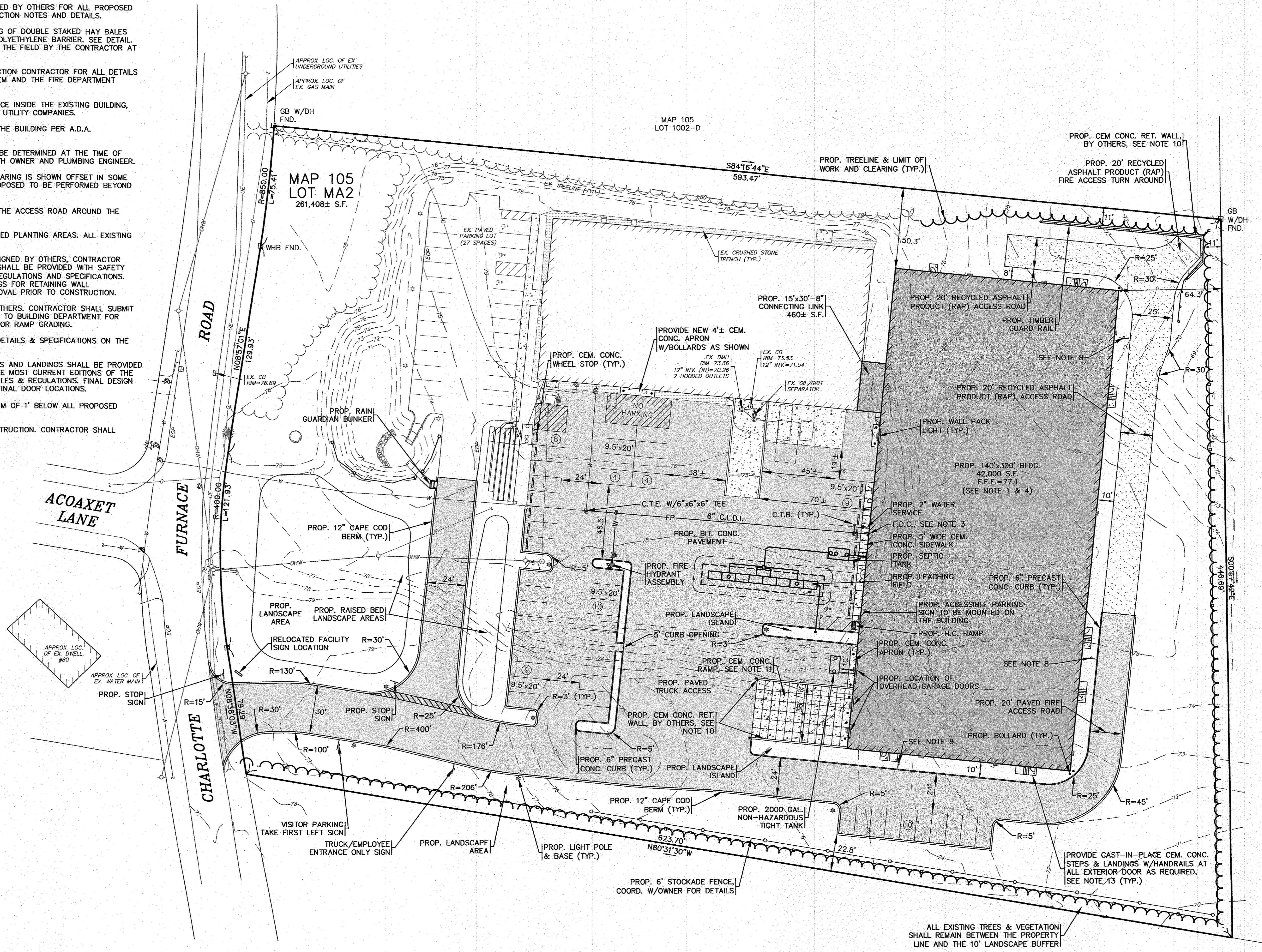
DATE: JULY 8, 2020 DRAWN BY: JMF CHECKED BY: WFM JOB NO.: 19-9342 SCALE: 1" = 30'	APPROVED BY:		G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafengrinc.com PREPARED FOR: MASTER MILLWORK, INC. 41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA
	APPROVED BY:		
	APPROVED BY:		
	APPROVED BY:		
	APPROVED BY:		
	APPROVED BY:		
NO CHANGES THIS SHEET	WFM		COPYRIGHT © 2022 G.A.F. ENGINEERING, INC. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED, TRANSMITTED, OR USED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF G.A.F. ENGINEERING, INC. WITH THE EXCEPTION OF ANY REGULATORY AUTHORITY WHICH MAY REPRODUCE OR TRANSMIT THIS DOCUMENT IN CONNECTION WITH THE PERFORMANCE OF AN OFFICIAL BUSINESS UNDER ITS JURISDICTION. ANY REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN PERMISSION OF G.A.F. ENGINEERING, INC. SHALL BE STRICTLY PROHIBITED.
NO CHANGES THIS SHEET	JMP		
NO CHANGES THIS SHEET	JMF		
PER TOWN COMMENTS	WFM		
PER PEER REVIEW COMMENTS	WFM		
PER PEER REVIEW COMMENTS	WFM		
REV.	DATE	BY	DESCRIPTION
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5	3/4/22	JMP	WFM
4	3/15/21	JMP	WFM
3	9/2/20	JMP	WFM
2	8/20/20	JMP	WFM
1	8/10/20	JMP	WFM

PERMIT SET
(NOT FOR CONSTRUCTION)

JOB NO.: 19-9342
DWG. 3 OF 10

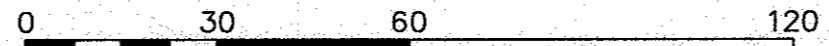
NOTES:

- REFER TO A SET OF ARCHITECTURAL PLANS PREPARED BY OTHERS FOR ALL PROPOSED BUILDING & CONNECTING LINK DIMENSIONS, CONSTRUCTION NOTES AND DETAILS.
- CEMENT CONCRETE WASHOUT AREA SHALL BE A RING OF DOUBLE STAKED HAY BALES WITH SILTATION FENCE AND LINED WITH A 40 MIL. POLYETHYLENE BARRIER. SEE DETAIL. FINAL WASHOUT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT TIME OF CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH THE FIRE PROTECTION CONTRACTOR FOR ALL DETAILS ON THE PROPOSED BUILDING FIRE PROTECTION SYSTEM AND THE FIRE DEPARTMENT CONNECTION (F.D.C.).
- CONNECT TO THE EXISTING GAS AND ELECTRIC SERVICE INSIDE THE EXISTING BUILDING. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES.
- ACCESSIBLE PARKING SIGN SHALL BE MOUNTED ON THE BUILDING PER A.D.A. REGULATIONS & SPECIFICATIONS.
- FINAL TIGHT TANK SIZE AND SPECIFICATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER AND PLUMBING ENGINEER.
- THE PROPOSED TREELINE & LIMIT OF WORK AND CLEARING IS SHOWN OFFSET IN SOME AREAS FOR CLARITY. NO WORK SHALL BE OR IS PROPOSED TO BE PERFORMED BEYOND THE 10' LANDSCAPE BUFFER.
- PROVIDE "NO PARKING FIRE LANE" SIGNAGE ALONG THE ACCESS ROAD AROUND THE BUILDING AS SHOWN.
- REFER TO THE LANDSCAPING PLAN FOR ALL PROPOSED PLANTING AREAS. ALL EXISTING LANDSCAPING SHALL REMAIN.
- PROPOSED CEMENT CONCRETE RETAINING WALLS DESIGNED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OWNER. RETAINING WALLS SHALL BE PROVIDED WITH SAFETY GUARDRAILS/HANDRAILS PER 780 CMR AND OSHA REGULATIONS AND SPECIFICATIONS. CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FOR RETAINING WALL CONSTRUCTION TO BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
- PROPOSED CEMENT CONCRETE RAMP DESIGNED BY OTHERS. CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FOR RAMP CONSTRUCTION TO BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION. SEE SHEET 5 FOR RAMP GRADING.
- REFER TO PLANS BY RAB LIGHTING FOR COMPLETE DETAILS & SPECIFICATIONS ON THE PROPOSED BUILDING AND SITE LIGHTING.
- PROPOSED CAST-IN-PLACE CEMENT CONCRETE STEPS AND LANDINGS SHALL BE PROVIDED WITH HANDRAILS. HANDRAILS SHALL CONFORM TO THE MOST CURRENT EDITIONS OF THE MASSACHUSETTS STATE BUILDING CODE AND ADA RULES & REGULATIONS. FINAL DESIGN BY OTHERS. REFER TO ARCHITECTURAL PLANS FOR FINAL DOOR LOCATIONS.
- WATER MAIN/SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW ALL PROPOSED DRAINAGE LINES.
- CONFIRM EXISTING WATER MAIN SIZE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH WAREHAM WATER DEPARTMENT.
- LOAM AND SEED ALL DISTURBED AREAS.



LAYOUT AND UTILITIES

SCALE: 1"=30'



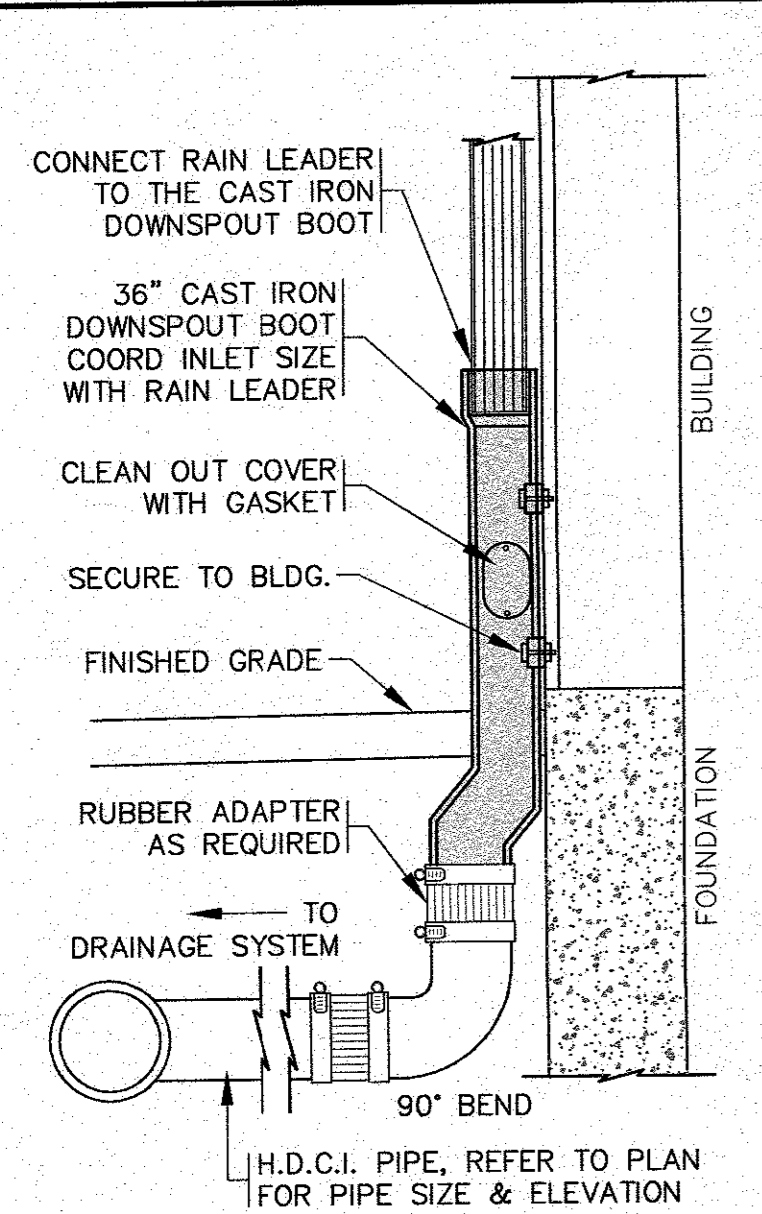
NO CHANGES THIS SHEET PER TOWN COMMENTS RELOCATED PROP. FP & WATER SERVICE PER TOWN COMMENTS PER 2ND PEER REVIEW COMMENTS PER WFD/PEER REVIEW COMMENTS	WFM	WFM	WFM	WFM	WFM	WFM	WFM	
	JMP	JMP	JMP	JMP	JMP	JMP	JMP	
	5/4/22	3/4/22	3/15/21	9/2/20	8/20/20	8/10/20	8/10/20	
	6	5	4	3	2	1	REV.	
	DATE: JULY 6, 2020	DRAWN BY: JMP	CHECKED BY: WFM	JOB NO.: 19-9342	SCALE: 1" = 30'	APPROVED BY: [Signature]		DESCRIPTION
	APPROVED BY: [Signature] APPROVED BY: [Signature] APPROVED BY: [Signature]							

G.A.F. ENGINEERING, INC.
 PROFESSIONAL ENGINEERS & LAND SURVEYORS
 266 MAIN STREET - WAREHAM, MA 02571
 TEL: (508) 295-6600 FAX: (508) 295-6634
 E-MAIL: info@gafengrinc.com

PREPARED FOR:
MASTER MILLWORK, INC.
 55 CHARLOTTE FURNACE ROAD WAREHAM, MA
 41 MEETING HOUSE LANE, SUITE 11, SAGAMORE BEACH, MA

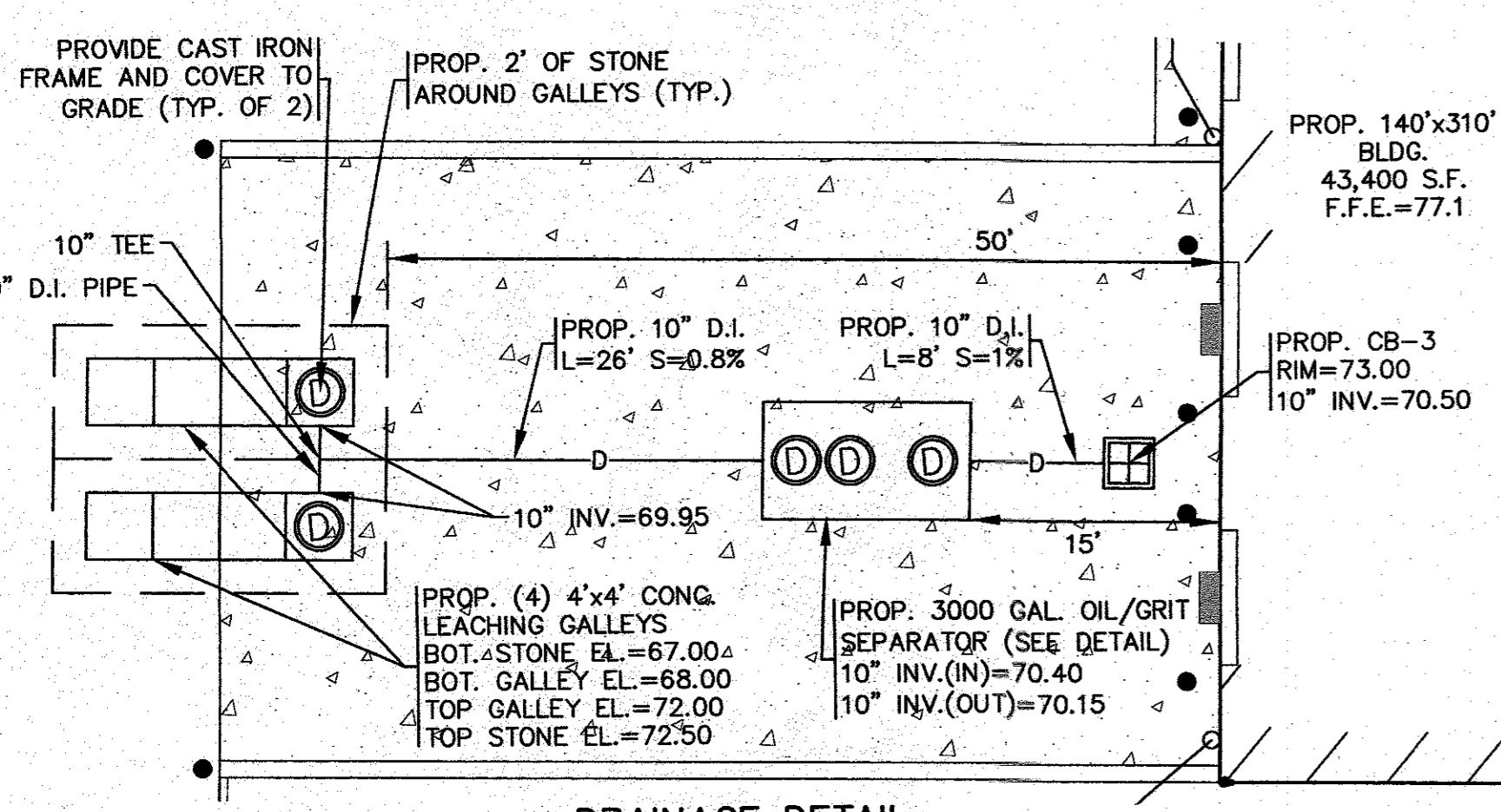
NOTES:

- ALL EXISTING CATCH BASINS, PROPOSED CATCH BASINS AND WATER QUALITY CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK OR AN APPROVED EQUAL INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT SACKS AT THE COMPLETION OF CONSTRUCTION.
- AT THE COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL INSPECT THE EXISTING CATCH BASIN, DRAIN MANHOLE AND OIL/GRIT SEPARATOR FOR EVIDENCE SEDIMENT OR DEBRIS ACCUMULATION. REMOVE AND DISPOSE OF ANY DEBRIS AND SEDIMENT AS REQUIRED.
- PROPOSED WQS-1 SHALL BE A CDS2015-4-C UNIT FROM CONTECH ENGINEERED SOLUTIONS LLC. SEE DETAIL ON SHEET B.
- PROPOSED WQS-2 SHALL BE A CDS1515-3-C UNIT FROM CONTECH ENGINEERED SOLUTIONS LLC. SEE DETAIL ON SHEET B.
- INSTALL FRONT ROOF GUTTERS TO INTERIOR ROOF DRAIN PIPING AND INSTALL UNDER THE SLAB OF BUILDING TO EXIT AS SHOWN. REFER TO ARCHITECTURAL PLANS BY OTHERS. CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR DESIGN. ALL MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE REGULATIONS AND SPECIFICATIONS OF THE MASSACHUSETTS STATE PLUMBING CODE (248 CMR 10.00).
- COVER ALL PROPOSED STONE FILLED TRENCHES WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED.
- MODIFY EXISTING DOWNSPOUT TO HAVE THE FLEX GRATE UNIT INSTALLED AND CONNECT NEW 6" ADS N-12 ROOF DRAIN PIPE. SEE DOWNSPOUT DETAIL.
- USE 12" C.I. PIPE FOR THE FIRST 10' OF PIPING COMING FROM THE BUILDING, THEN USE 12" ADS N-12 FOR THE REST OF THE PIPE LENGTH.
- 2:1 SIDE SLOPES SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED. SEE DETAIL ON SHEET 10.
- WATER MAIN/SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW ALL PROPOSED DRAINAGE LINES.
- INSPECT THE EXISTING RAIN GARDEN FOR ANY SIGNS OF EROSION WITHIN THE RAIN GARDEN AND THE SIDE SLOPES. REMOVE AND DISPOSE OF ANY DEBRIS OR SEDIMENT AS REQUIRED. CLEAN THE EXISTING RAIN GARDEN OF UNWANTED GROWTH AND MOW WITH A HAND TRIMMER.
- FOR COMPLETE DRAINAGE OPERATION AND MAINTENANCE NOTES SEE SHEET 2.
- WHERE THE 4" BUILDING SEWER AND THE 8" ROOF DRAIN CROSS, ENCASE BOTH PIPES IN CEMENT CONCRETE, A MINIMUM 24" IN ALL DIRECTIONS.

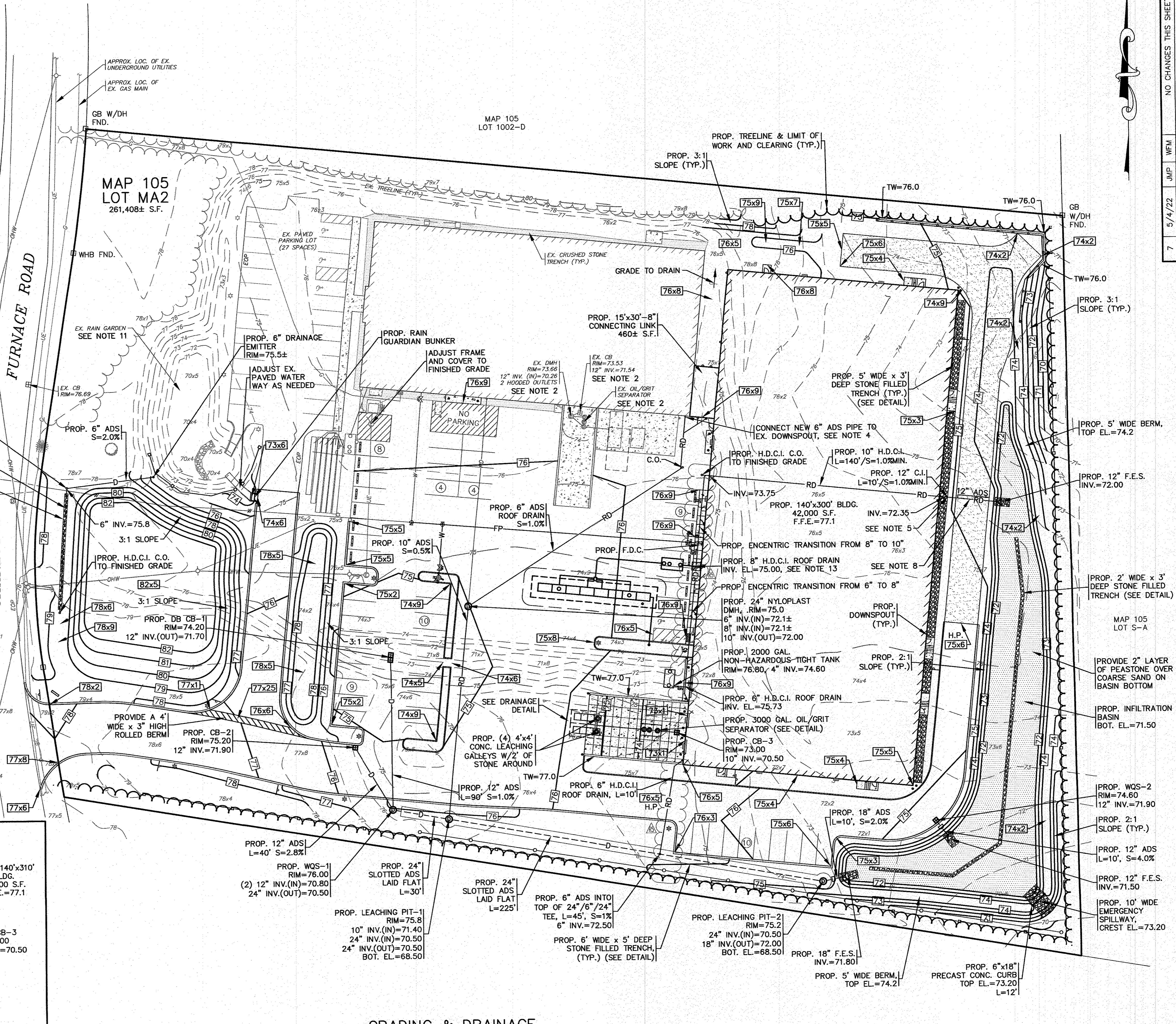


- NOTES:**
- REFER TO SITE PLAN FOR LOCATIONS, PIPE SIZES, INVERTS, ETC.

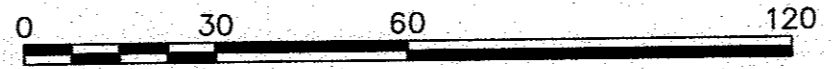
DOWNSPOUT DETAIL
N.T.S.



DRAINAGE DETAIL
SCALE: 1" = 10'



GRADING & DRAINAGE
SCALE: 1" = 30'



NO.	DATE	BY	REV.	DESCRIPTION	
				APPD	DATE
7	5/4/22	JMP			NO CHANGES THIS SHEET
6	3/4/22	JMP			PER TOWN COMMENTS
5	12/3/21	JH			DOWNSPOUT BOOT / ROOF DRAIN HEADER
4	3/15/21	JMP			RELOCATED PROP. FP & WATER SERVICE
3	9/2/20	JMP			PER TOWN COMMENTS
2	8/20/20	JMP			PER 2ND PEER REVIEW COMMENTS
1	8/10/20	JMP			PER WFD/PEER REVIEW COMMENTS

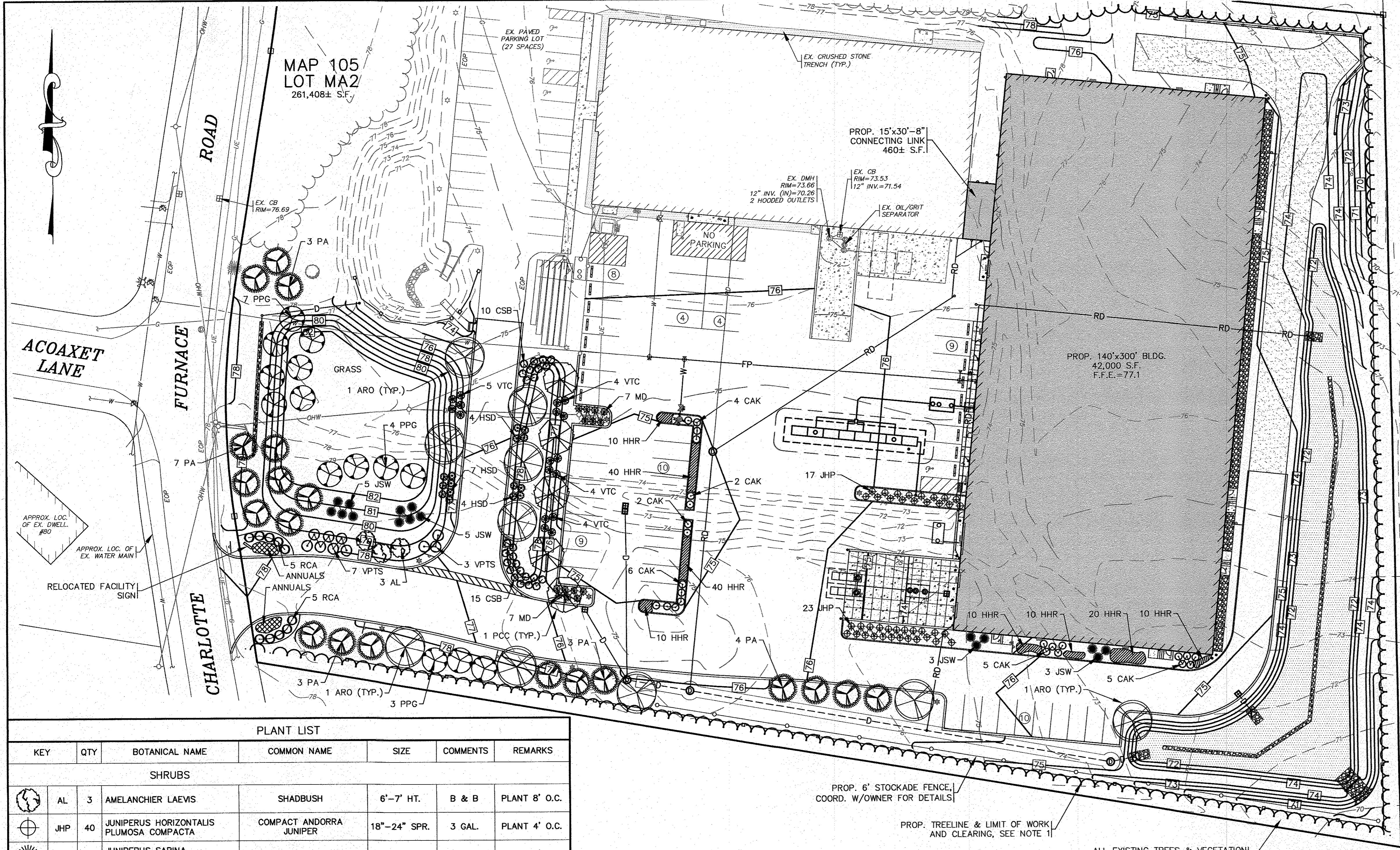
DATE:	JULY 8, 2020
DRAWN BY:	JMP
CHECKED BY:	WFM
JOB NO.:	19-9342
SCALE:	1" = 30'

APPROVED BY:	<i>[Signature]</i>
PROJECT:	MAP 105 LOT S-A
CITY:	WAREHAM, MA

G.A.F. ENGINEERING, INC.	
PROFESSIONAL ENGINEERS & LAND SURVEYORS	286 MAIN STREET - WAREHAM, MA 02571
TEL: (508) 295-6600	FAX: (508) 295-6634
E-MAIL: info@gafeng.com	

PREPARED FOR:	MASTER MILLWORK, INC.
ADDRESS:	41 MEETING HOUSE LANE, SUITE 11, SAGAMORE BEACH, MA

JOB NO.:	19-9342
DWG.:	5 OF 10



NOTE:
 LANDSCAPE ARCHITECTURE BY: E.A. FULLER ASSOCIATES—LANDSCAPE ARCHITECTS
 170 PLYMOUTH STREET, P.O. BOX 48
 NORTH CARVER, MA 02355

- PLANTING STANDARDS:**
- THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP, AND TRANSPLANT ALL PLANT MATERIALS LISTED ON THE PLANT SCHEDULE. BARE-ROOT IS TYPICALLY NOT PERMITTED FOR ANY TREE.
 - PLANT MATERIALS SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANTS SHALL BE NURSERY GROWN.
 - PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE.
 - CALIPER MEASUREMENTS SHALL BE TAKEN SIX (6) INCHES ABOVE GRADE FOR TREES UNDER FOUR (4) INCHES IN DIAMETER AND TWELVE (12) INCHES ABOVE GRADE FOR TREES FOUR (4) INCHES IN DIAMETER AND LARGER.
 - MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX (6) FEET.
 - MINIMUM SIZE FOR SHADE TREES SHALL BE TWO AND ONE HALF (2.5) INCHES IN DIAMETER AND TWELVE (12) FEET IN HEIGHT.
 - MINIMUM SIZE FOR EVERGREEN TREES SHALL BE BETWEEN SIX (6) AND EIGHT (8) FEET IN HEIGHT
 - MINIMUM SIZE FOR SHRUBS SHALL BE THREE (3) FEET IN HEIGHT
 - A PROFESSIONAL HORTICULTURIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT DISTRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.
 - A LANDSCAPE CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES, AND SHRUB BEDS AS FOLLOWS:
 - ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, WITH VERTICAL SIDES. THE TREE PIT SHALL BE DEEP ENOUGH TO ALLOW ONE-EIGHTH (1/8) OF THE BALL TO BE ABOVE THE EXISTING GRADE. PLANTS SHALL REST ON UNDISTURBED EXISTING SOIL OR WELL COMPACTED BACKFILL ON EVERY SIDE, THE TREE PITS MUST BE A MINIMUM OF 2 TIMES THE ROOT BALL DIAMETER.
 - IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE CULTIVATED TO AT LEAST EIGHTEEN (18) INCHES IN DEPTH. AREAS DESIGNATED FOR GROUND COVERS AND VINES SHALL BE CULTIVATED TO AT LEAST TWELVE (12) INCHES IN DEPTH.
 - EACH TREE, SHRUB, OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE.
 - ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL DIAMETER OF THE PIT. SOIL THAT HAS BEEN REMOVED AND STACKED SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGE OF SHRUB AREAS, HEDGE TRENCHES AND VINE POCKETS.
 - AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A LAYER BETWEEN TWO (2) AND THREE (3) INCHES DEEP OF HEMLOCK / SPRUCE MULCH OVER THE ENTIRE AREA OF THE BED OR SAUCER.
 - A TWO (2) YEAR GUARANTEE SHALL BE PROVIDED ON ALL NEW PLANT MATERIAL. IF ANY TREE OR SHRUB DIES WITHIN THIS PERIOD OF TIME, IT SHALL BE REPLACED.
 - ALL AREAS THAT ARE NOT LANDSCAPED SHALL BE LOAMED AND SEEDDED.

- NOTES:**
- THE PROPOSED TREELINE & LIMIT OF WORK AND CLEARING IS SHOWN OFFSET IN SOME AREAS FOR CLARITY. NO WORK SHALL BE OR IS PROPOSED TO BE PERFORMED BEYOND THE 10' LANDSCAPE BUFFER.

PLANT LIST						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS	REMARKS
SHRUBS						
AL	3	AMELANCHIER LAEVIS	SHADBUSH	6'-7" HT.	B & B	PLANT 8' O.C.
JHP	40	JUNIPERUS HORIZONTALIS PLUMOSA COMPACTA	COMPACT ANDORRA JUNIPER	18"-24" SPR.	3 GAL.	PLANT 4' O.C.
JSW	6	JUNIPERUS SABINA "WICHITA BLUE"	WICHITA BLUE JUNIPER	6'-7" HT.	B & B	PLANT 5' O.C.
MD	14	MICROBIOTA DECUSSATA	SIBERIAN CARPET CYPRESS	18"-24" SPR.	3 GAL.	PLANT 3' O.C.
RCA	10	RHODODENDRON CATAWBIENSE "ALBA"	WHITE CATAWBA RHODODENDRON	30"-36" HT.	B & B	PLANT 5' O.C.
VPTS	10	VIBURNUM Plicatum TOMENTOSUM "SHASTA"	SHASTA DOUBLEFILE VIBURNUM	36" HT.	5 GAL. OR B & B	PLANT 5' O.C.
CSB	25	CORNUS SERICEA "BAILEY"	BAILEY'S RED TWIG DOGWOOD	18"-24" HT.	3 GAL.	PLANT 4' O.C.
HSD	15	HIBISCUS SYRIACUS "DIANA"	ROSE OF SHARON-WHITE	3"-4" HT.	3 GAL.	PLANT 5' O.C.
VTC	17	VIBURNUM TRILOBUM COMPACTUM	COMPACT AMERICAN CRANBERRYBUSH VIBURNUM	36" HT.	5 GAL. OR B & B	PLANT 5' O.C.
SHADE & ORNAMENTAL TREES						
ARO	10	ACER RUBRUM "OCTOBER GLORY"	OCTOBER GLORY RED MAPLE	3" CAL.	B & B	PLANT 35' O.C.
PA	20	PICEA ABIES	NORWAY SPRUCE	7'-8" HT.	B & B	PLANT 15' O.C.
PPG	14	PICEA PUNGENS "GLAUC"	COLORADO BLUE SPRUCE	7'-8" HT.	B & B	PLANT 15' O.C.
PCC	5	PYRUS CALLERYANA "CHANTICLEER"	CLEVELAND SELECT CALLERY PEAR	3" CAL.	B & B	PLANT AS SHOWN
ORNAMENTAL GRASSES & PERENNIALS						
CAK	24	CALAMAGROSTIS ACUTIFLORA "KARL FOERSTER"	FEATHER REED GRASS	1 GAL.	36" HT.	18" O.C.
HHR	150	HEMEROCALIS "HAPPY RETURNS"	HAPPY RETURNS DAYLILY	1 GAL.	18" HT.	18" O.C.

LANDSCAPING PLAN
 SCALE: 1"=30'

NO CHANGES THIS SHEET

5/4/22	JMP	WFM	ADDITIONAL PLANTINGS PER TOWN COMMENTS
3/4/22	JMP	WFM	RELOCATED PROP. FP & WATER SERVICE
3/15/21	JMP	WFM	PER TOWN COMMENTS
9/2/20	JMP	EAF	PER 2ND PEER REVIEW COMMENTS
8/20/20	JMP	WFM	PER PEER REVIEW COMMENTS
8/10/20	JMP	WFM	PER PEER REVIEW COMMENTS
DATE	REV.	BY	DESCRIPTION

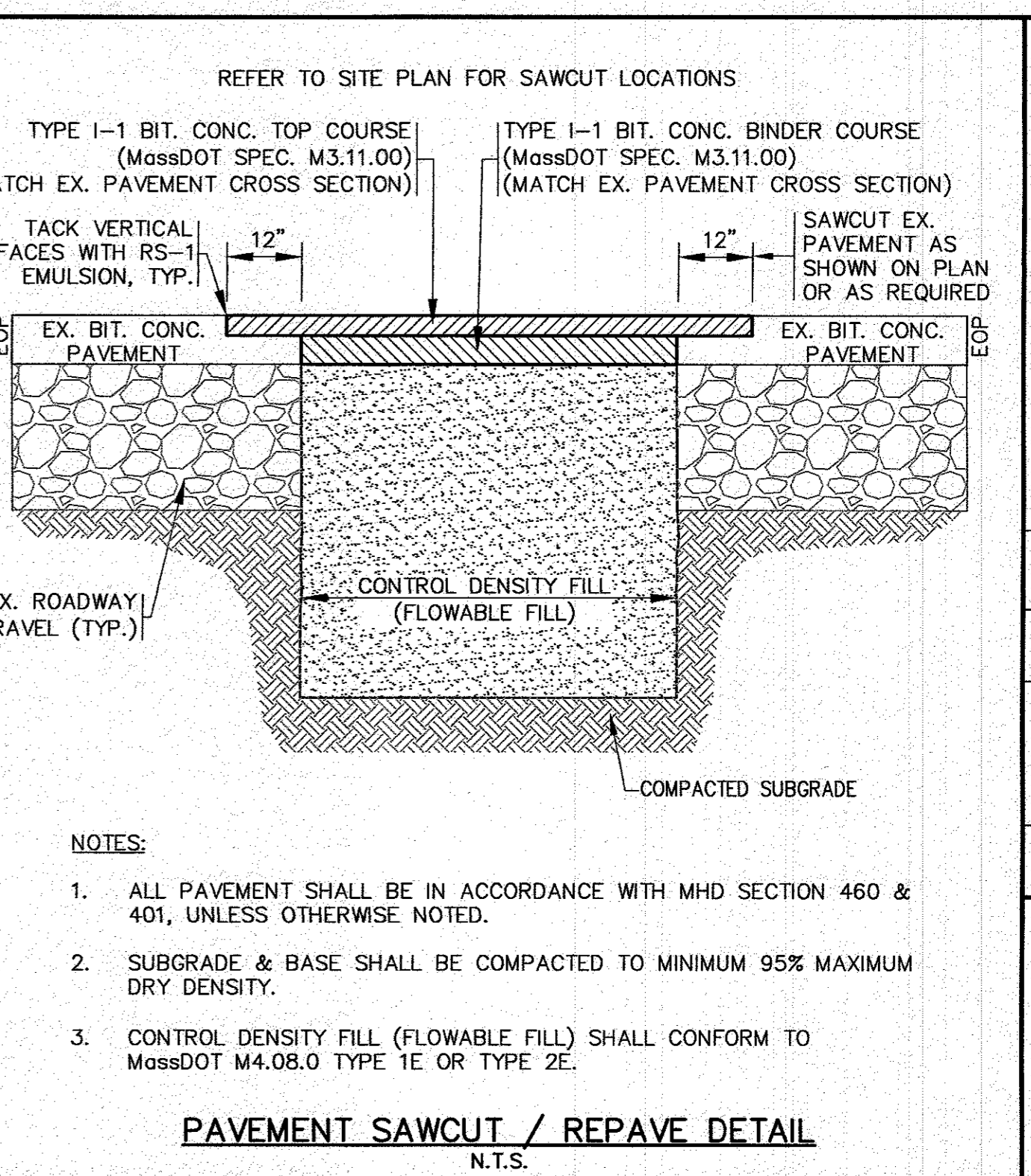
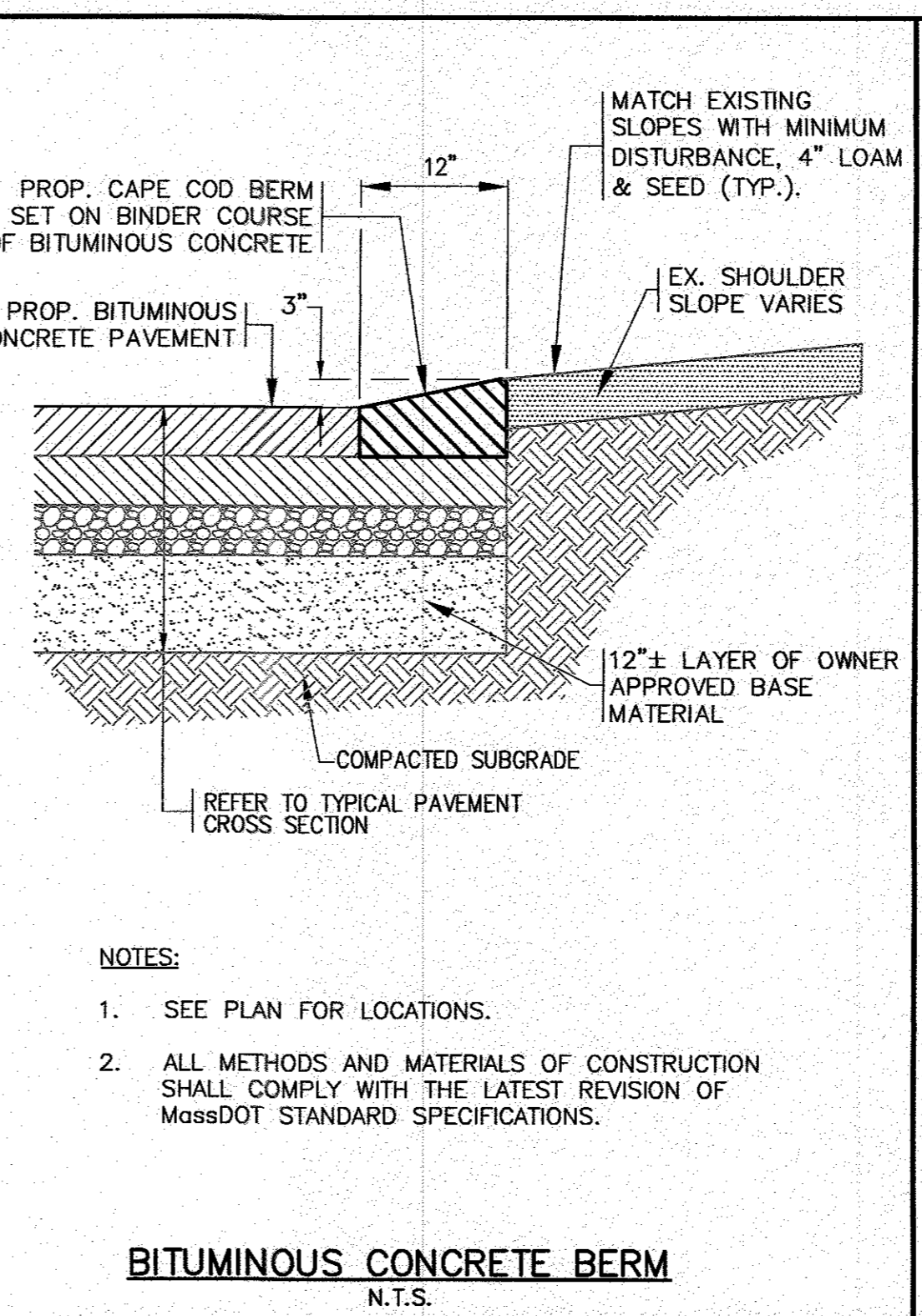
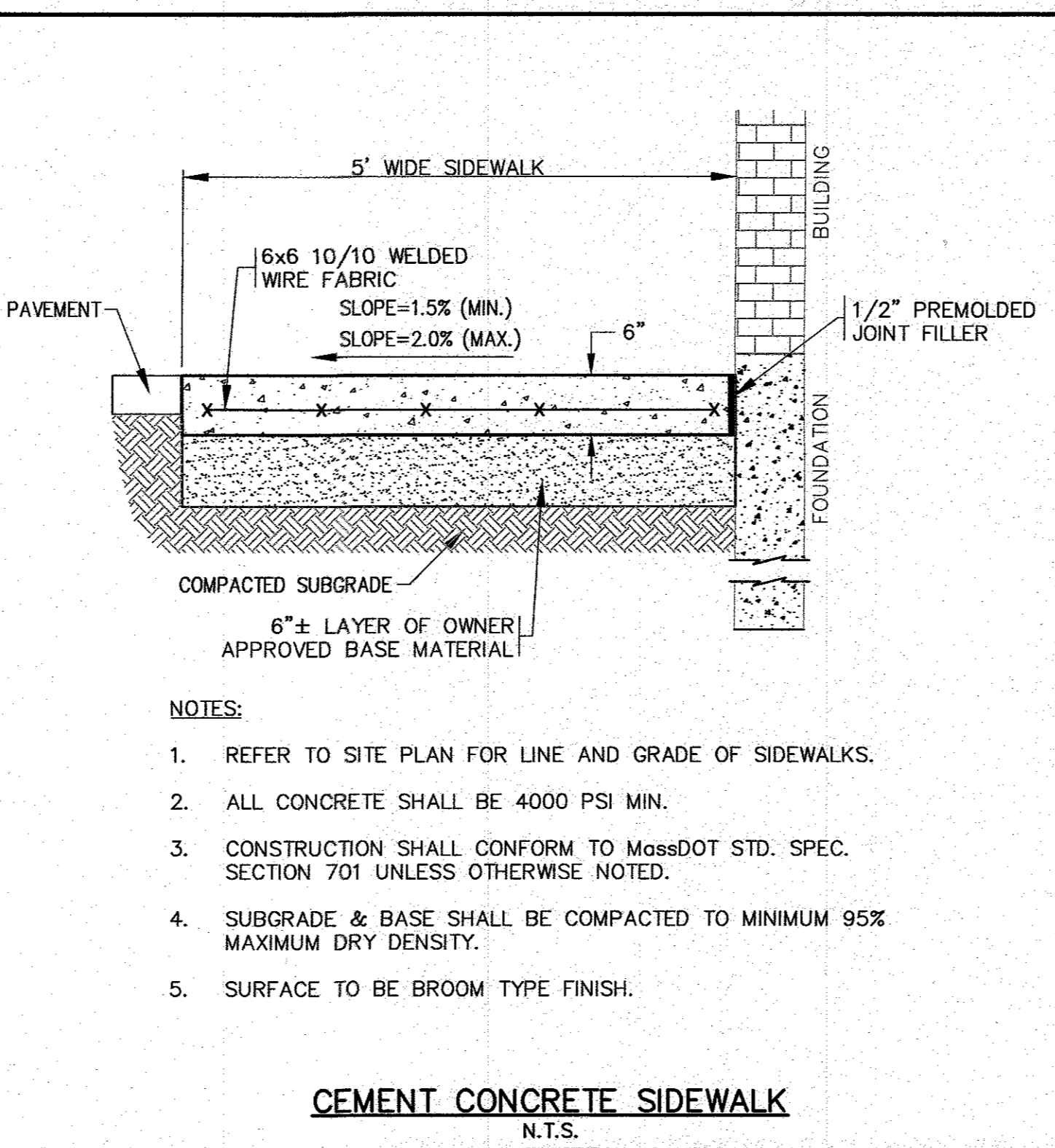
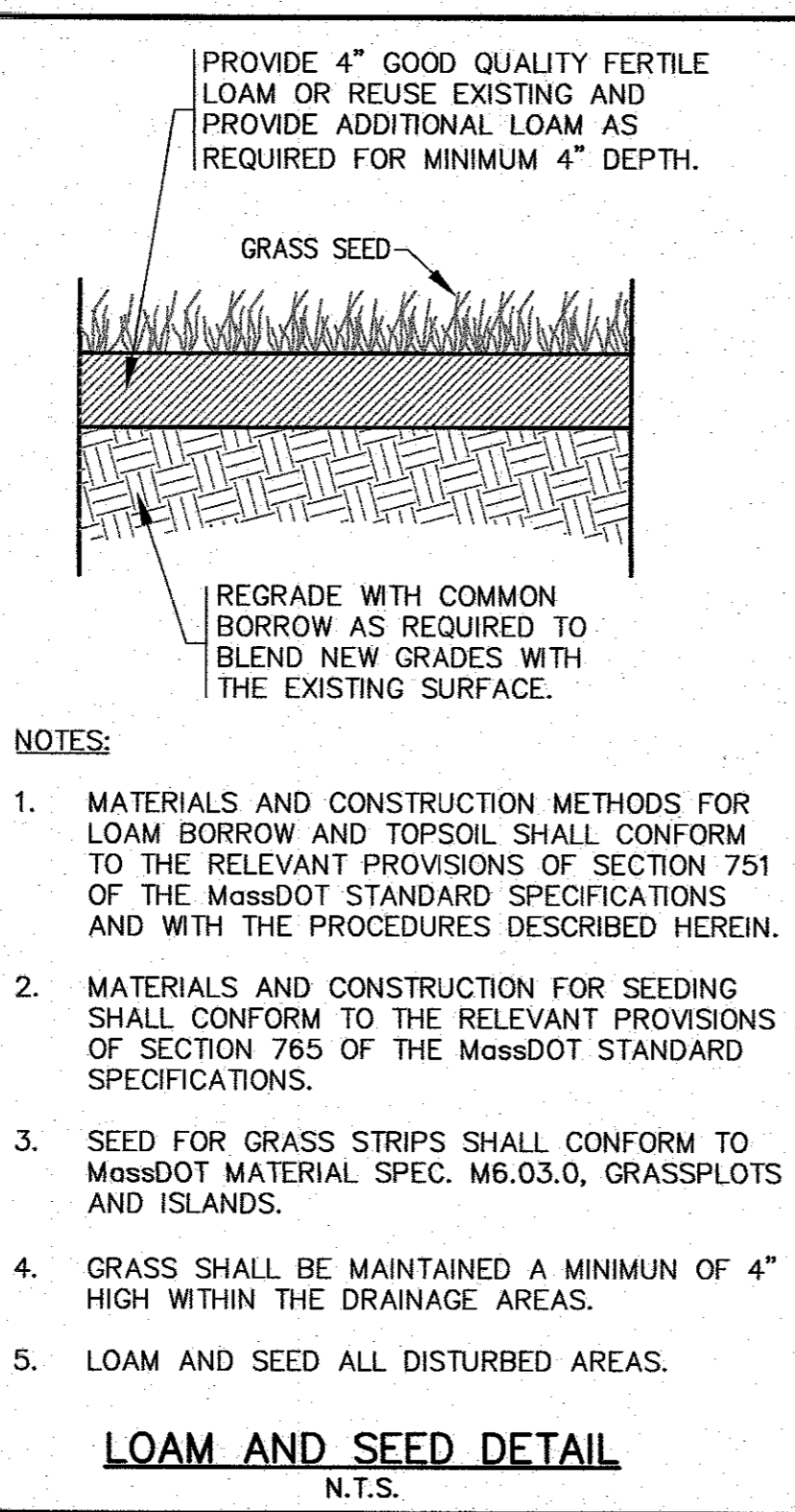
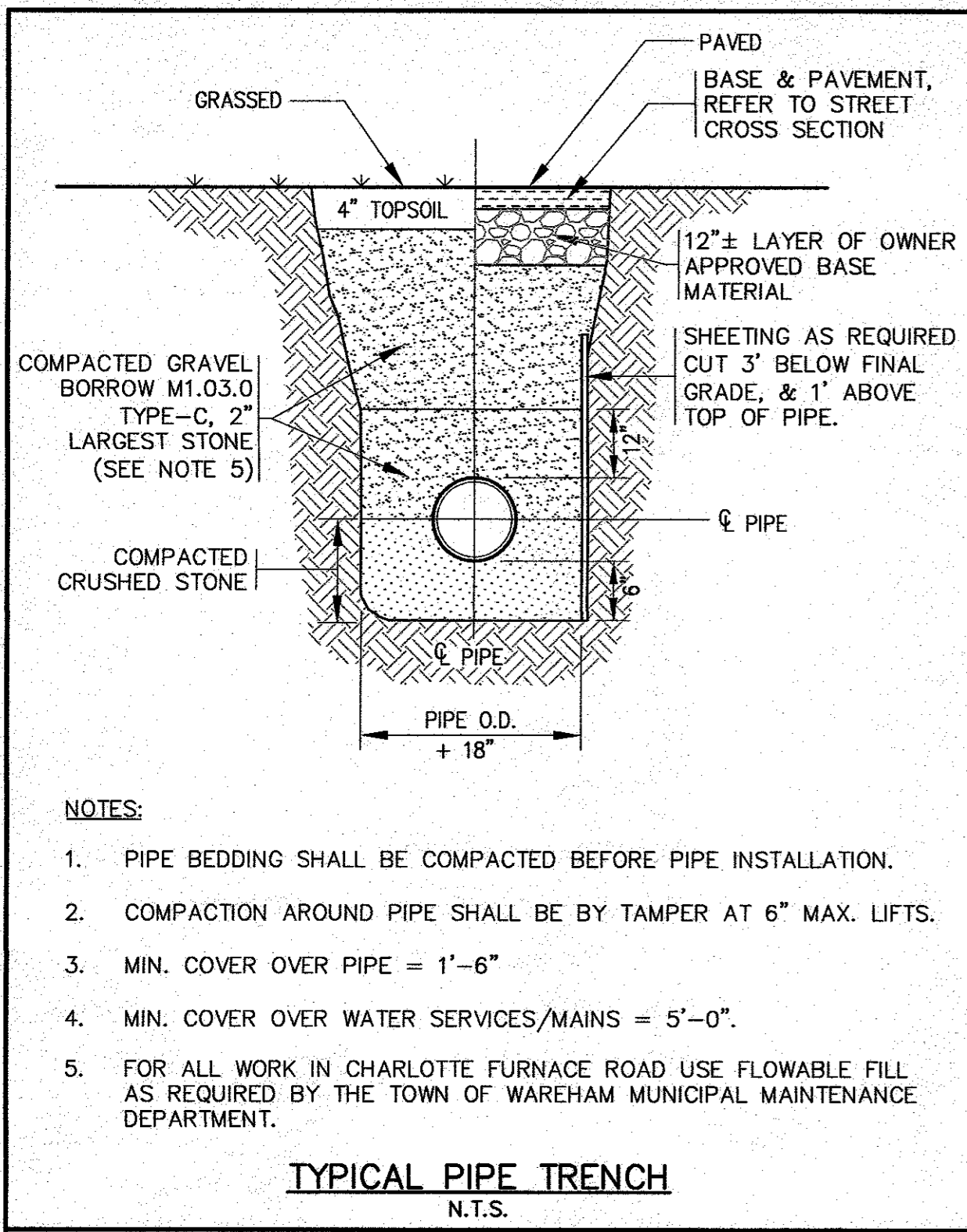
DATE: JULY 8, 2020
 DRAWN BY: JMP
 CHECKED BY: WFM
 JOB NO.: 19-9342
 SCALE: 1" = 30'

APPROVED BY: *[Signature]*
 G.A.F. ENGINEERING, INC.
 PROFESSIONAL ENGINEERS & LAND SURVEYORS
 266 MAIN STREET - WAREHAM, MA 02571
 TEL: (508) 295-6600 FAX: (508) 295-6634
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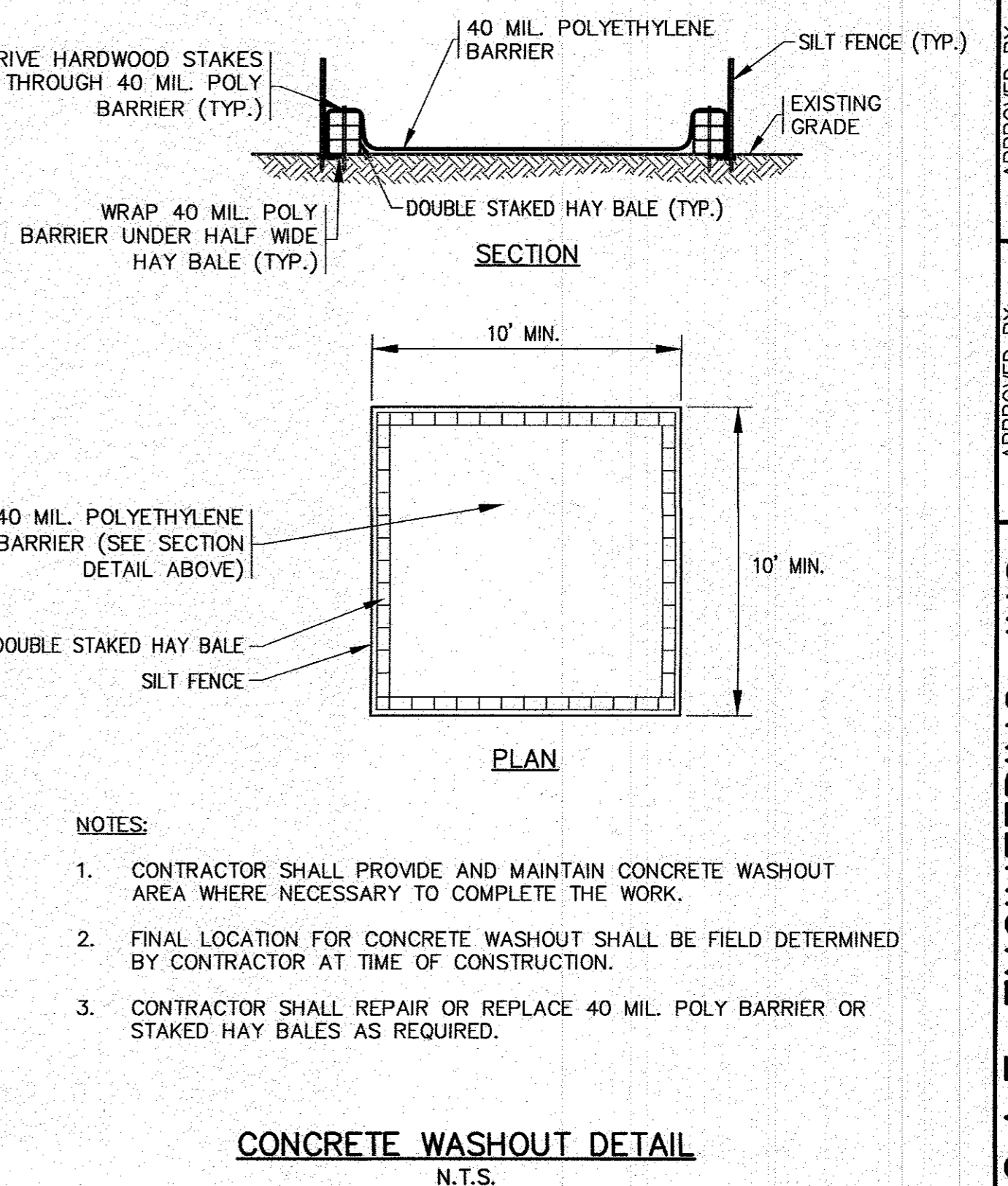
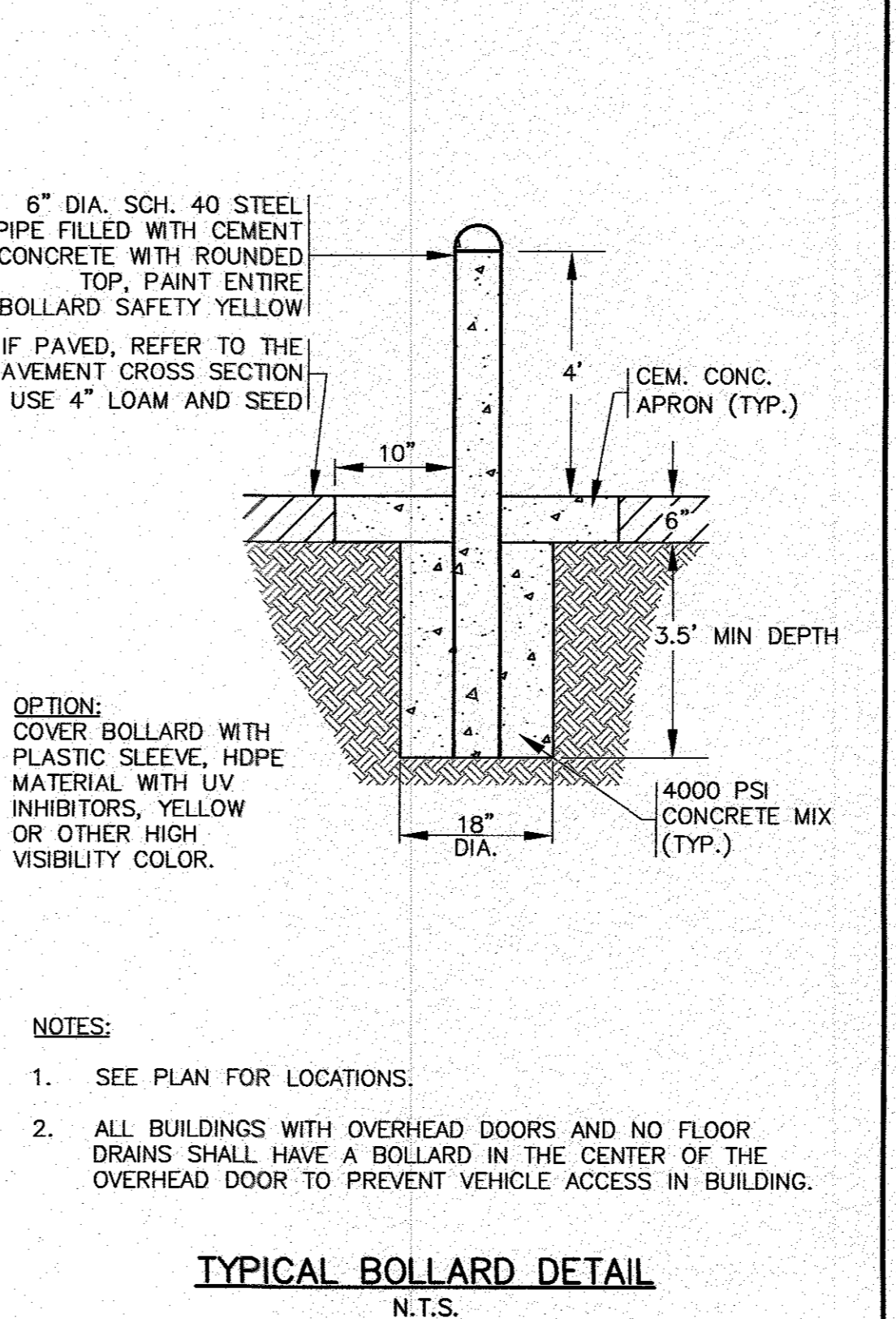
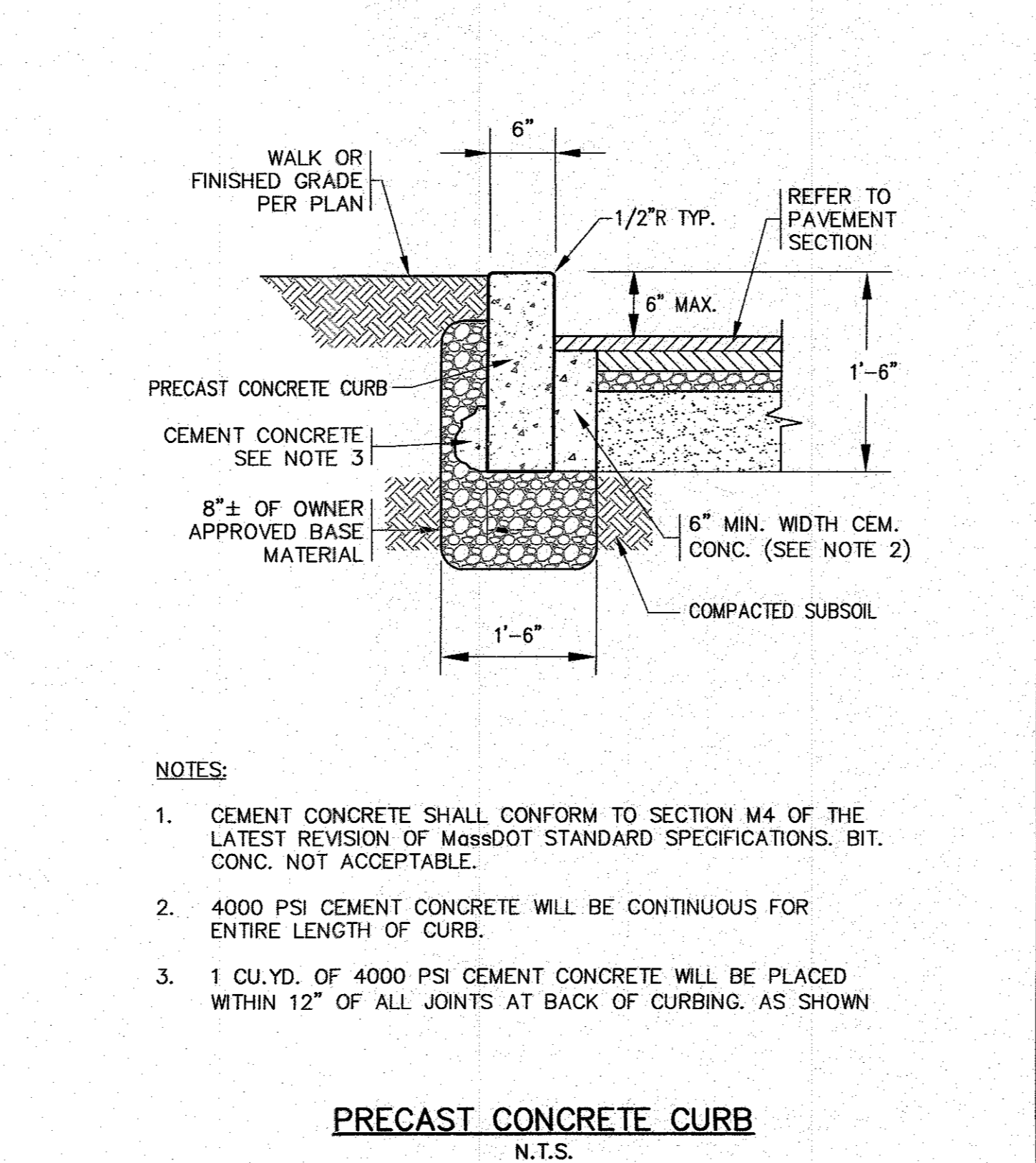
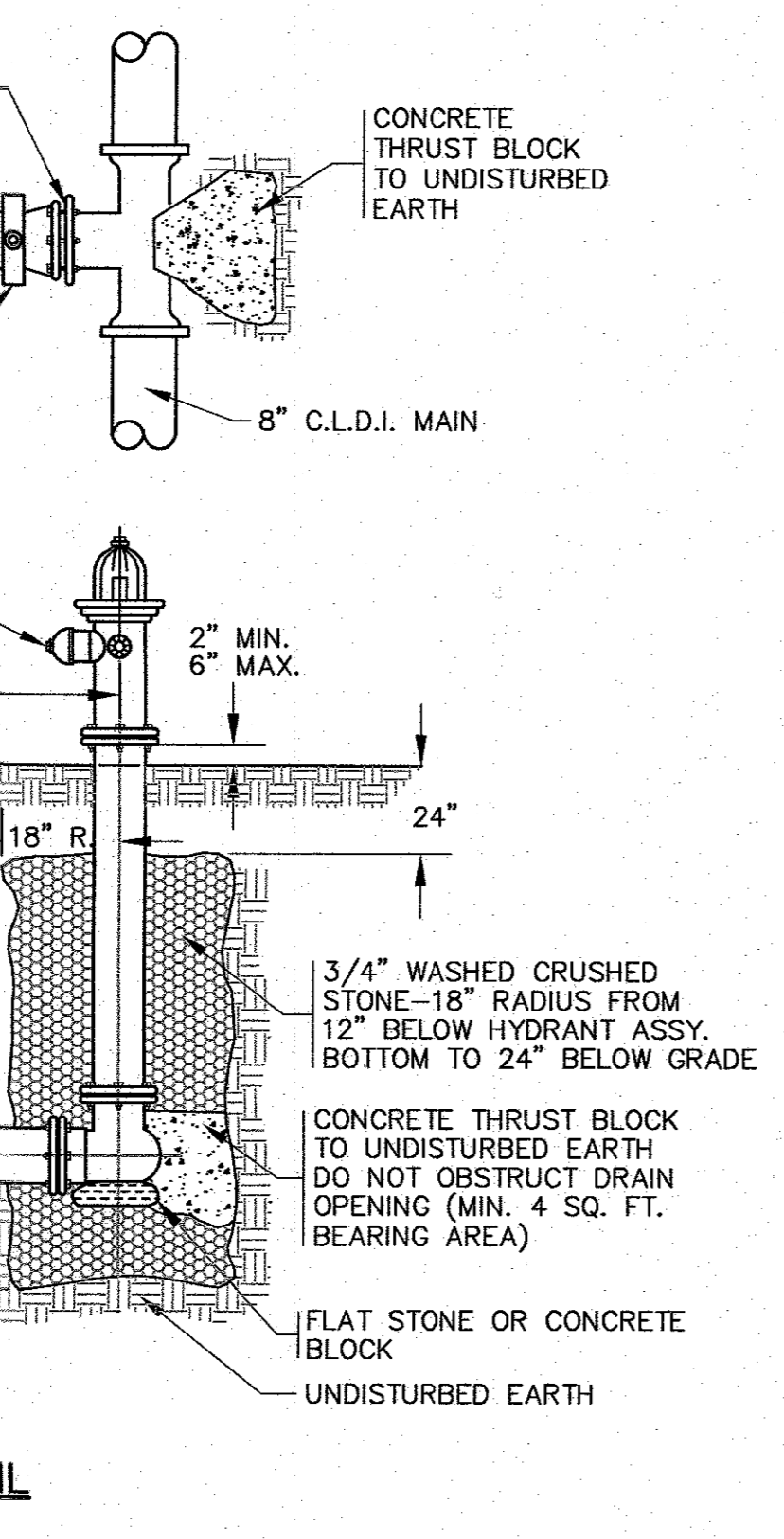
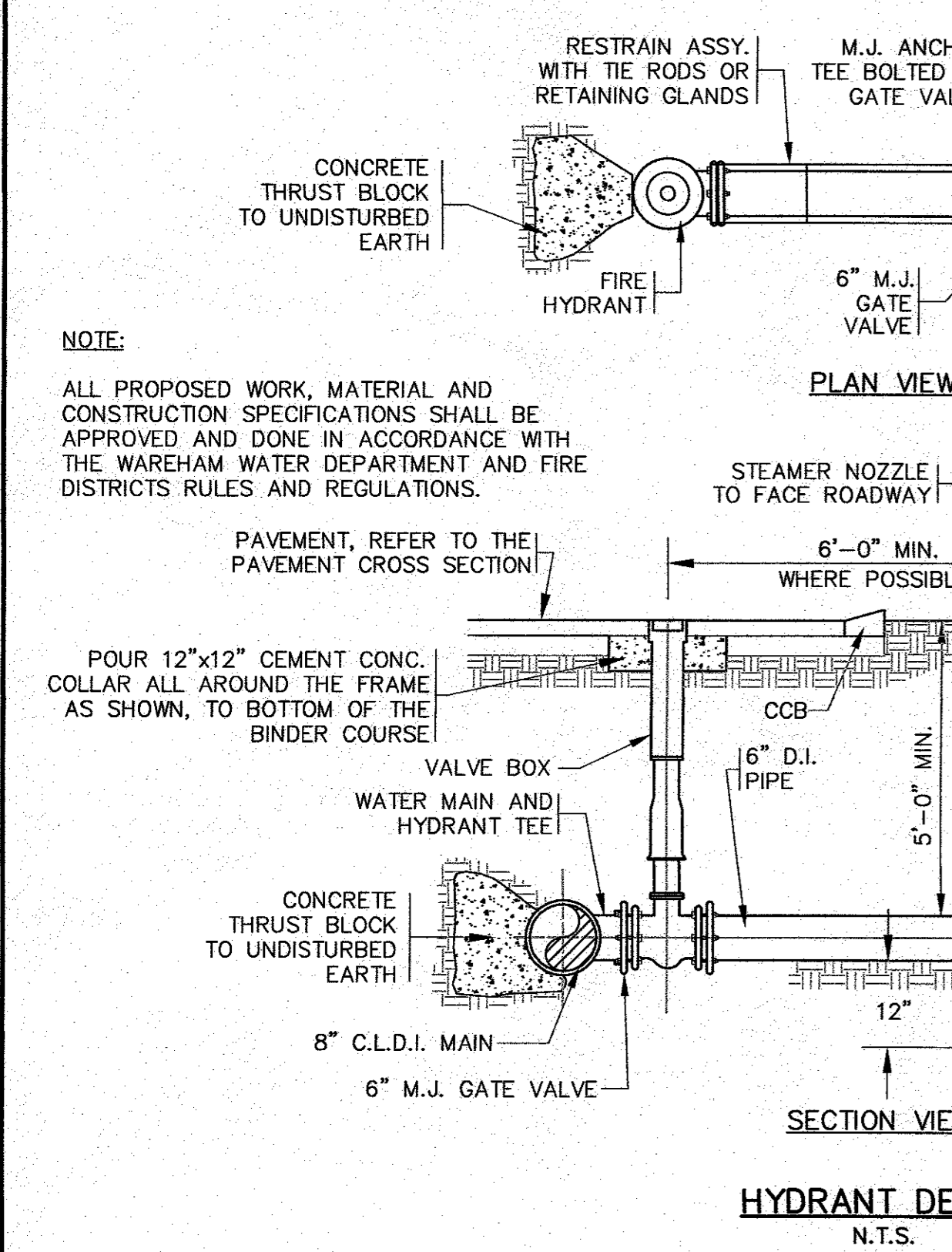
PREPARED FOR:
MASTER MILLWORK, INC.
 41 MEETING HOUSE LANE, SUITE 11, SAGAMORE BEACH, MA

JOB NO.: 19-9342
 DWG. 6 OF 10

19-9342 (DRAWING) 2020 07/08/2020 09:52:42 (MASTER MILLWORK) 03/10/2020 SITE PLAN_A11-3-REV-6.dwg



DATE	BY	DESCRIPTION
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3/15/21	JMP	REV. PAVEMENT CROSS SECTION
9/2/20	JMP	WFM
8/2/20	JMP	NO CHANGES THIS SHEET
8/20/20	JMP	NO CHANGES THIS SHEET
8/10/20	JMP	PER PEER REVIEW COMMENTS
REV.	DATE	BY
6	5/4/22	JMP
5	3/4/22	JMP
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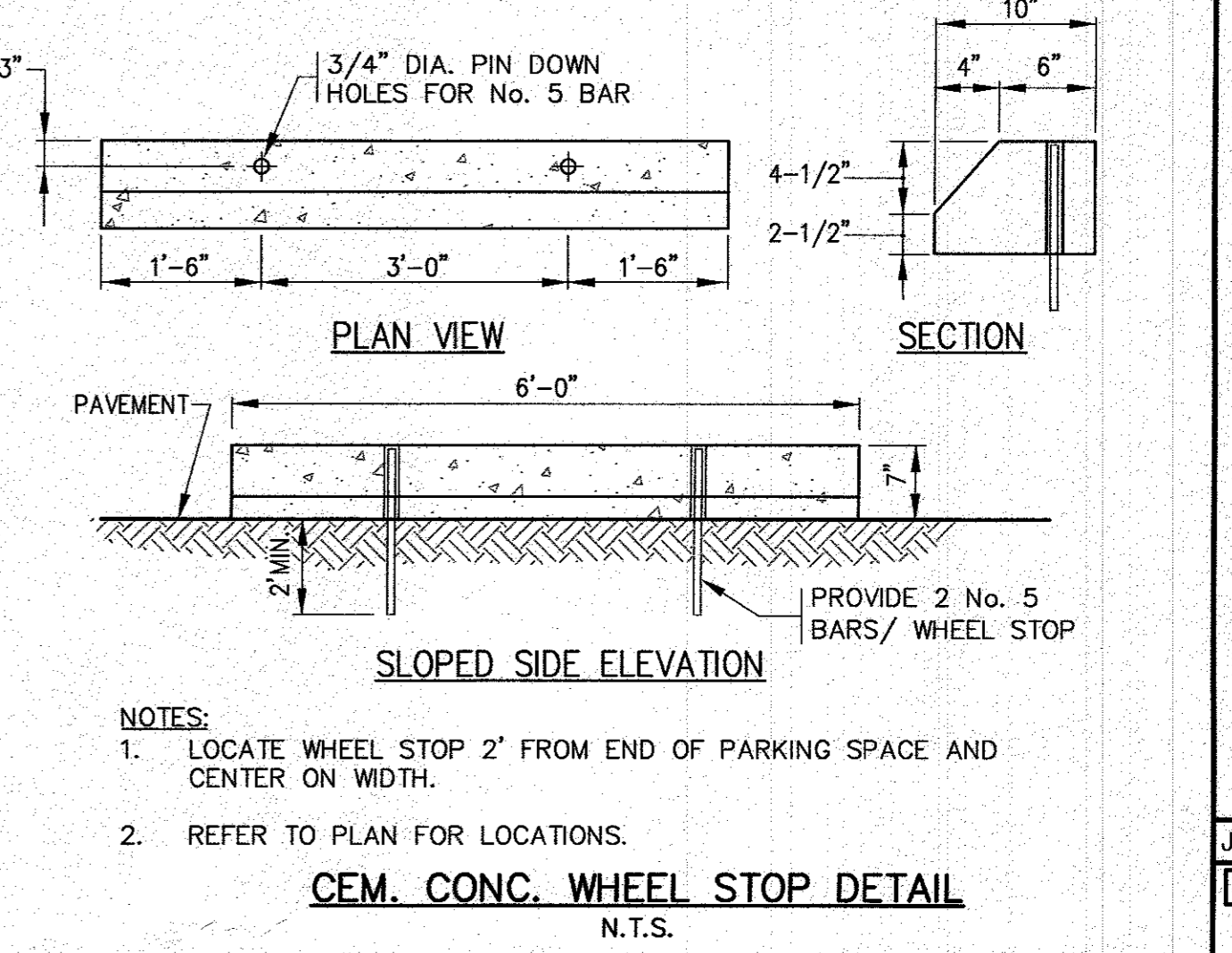
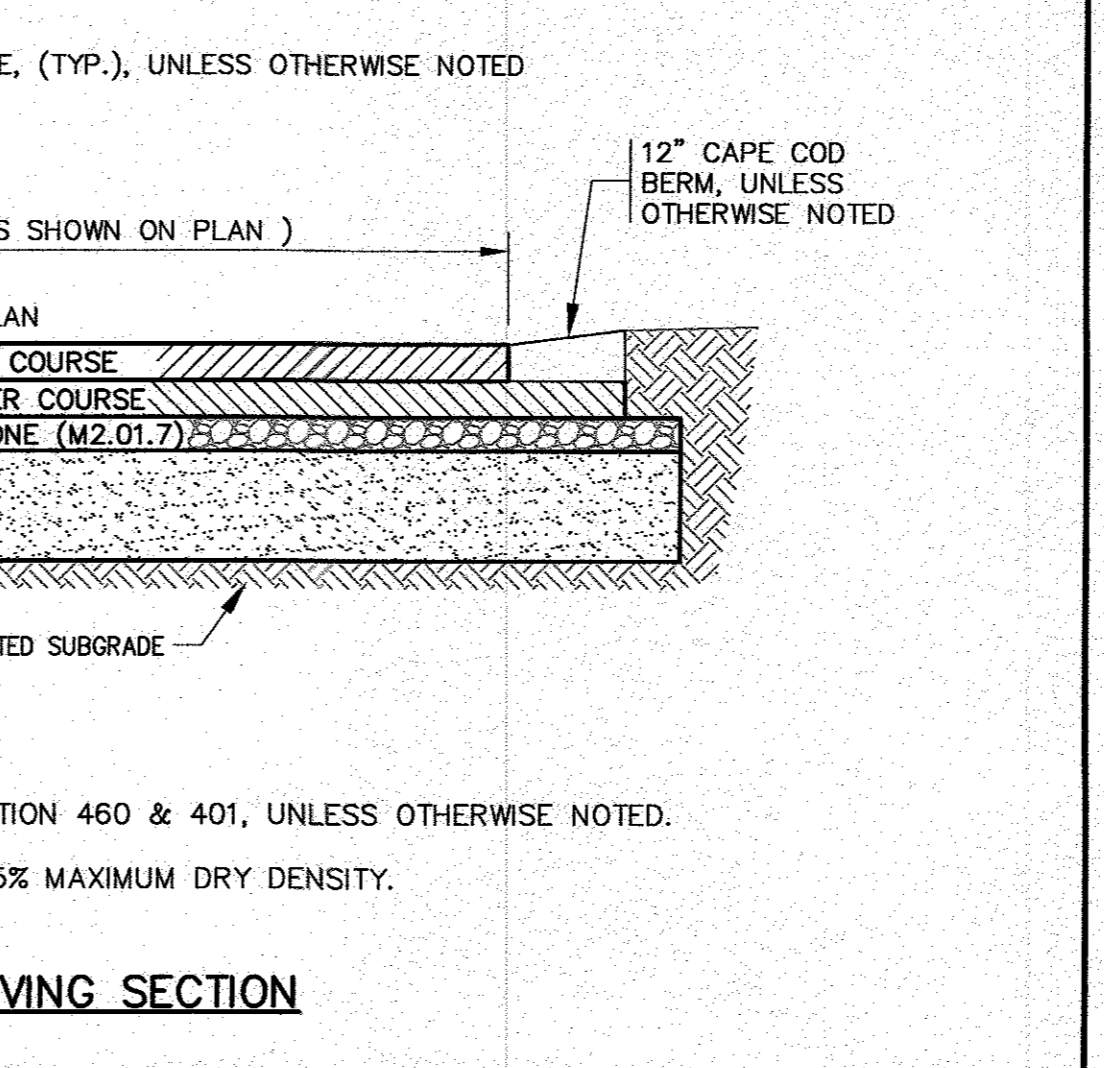
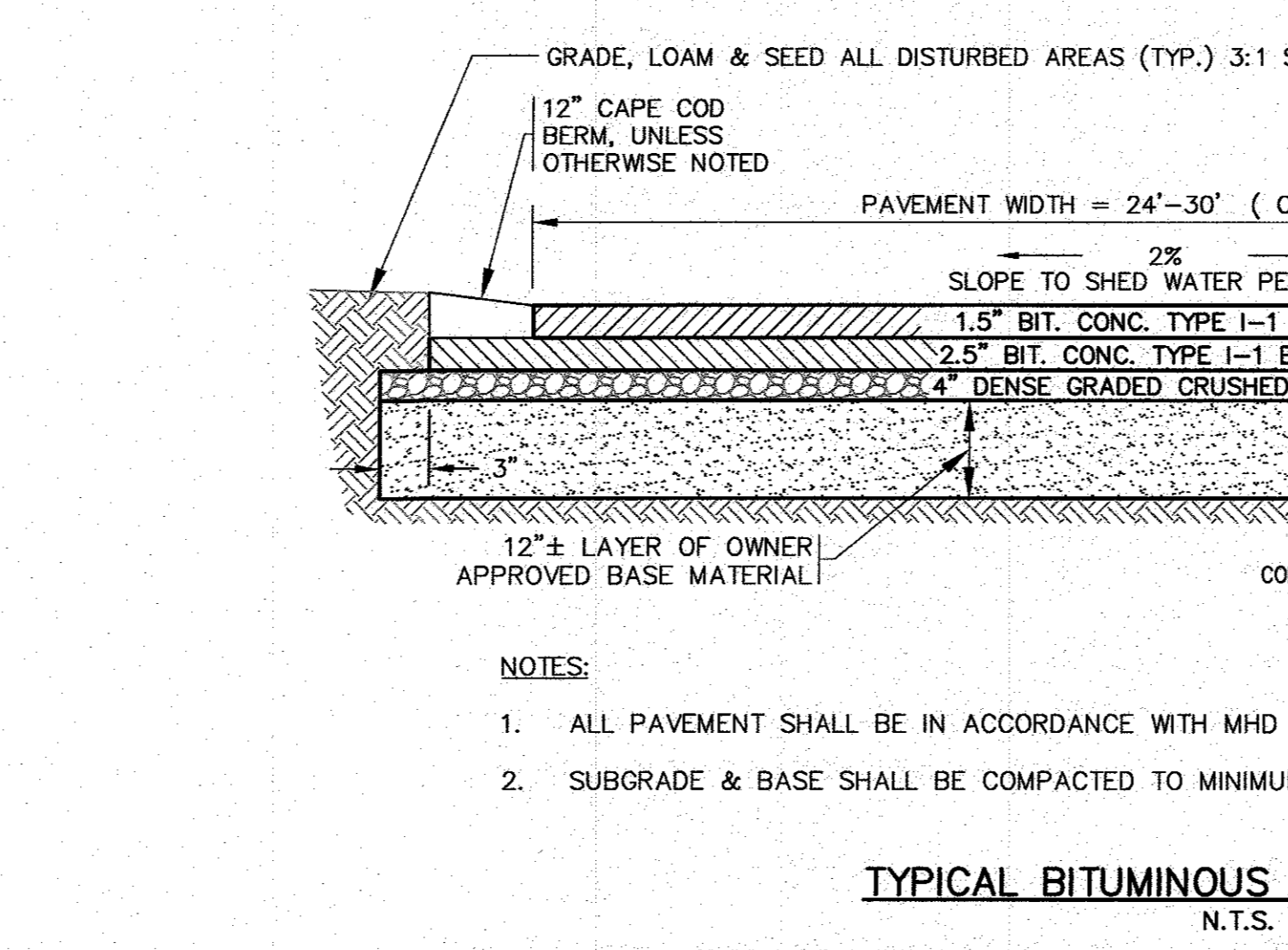
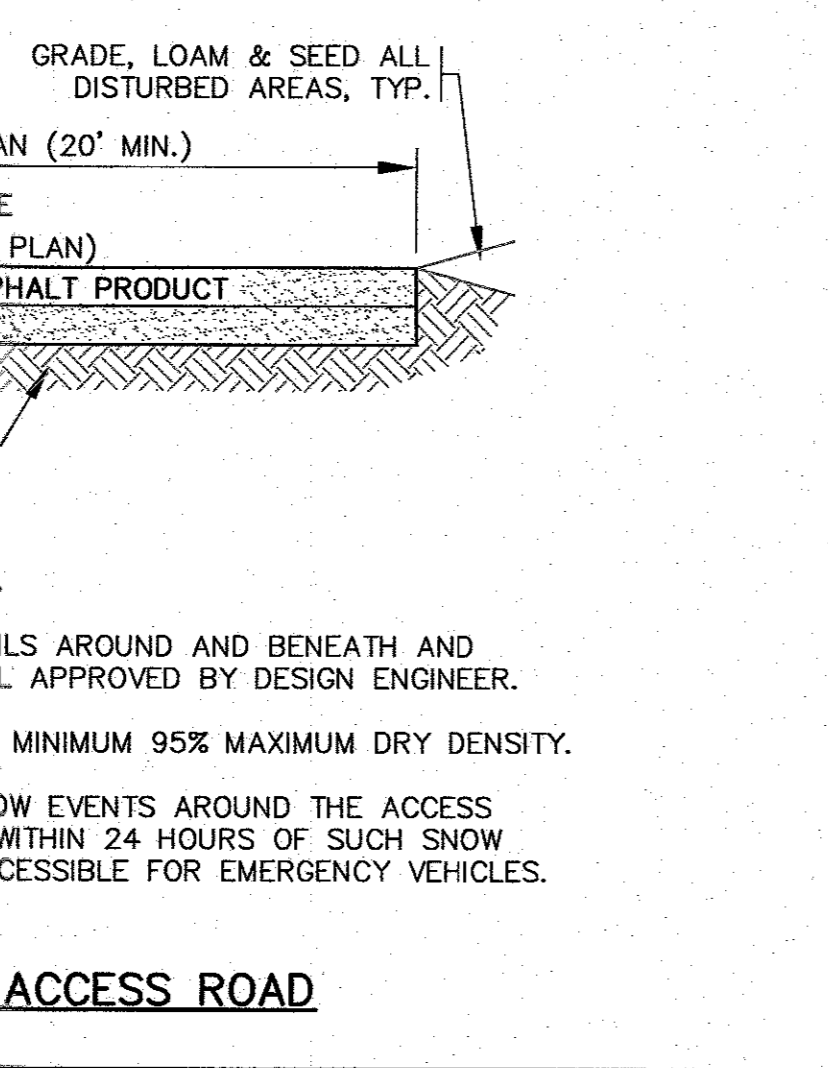
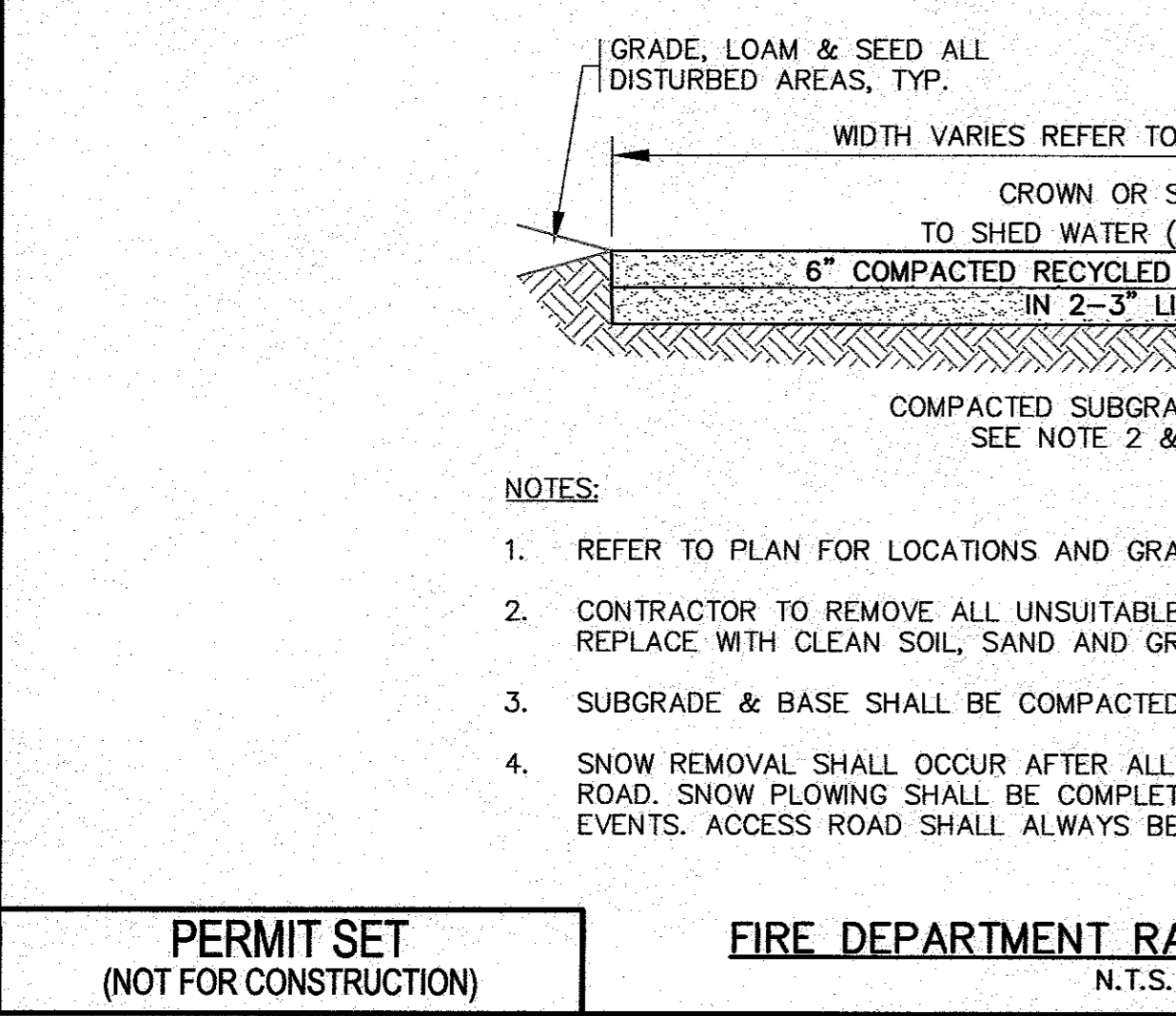
DATE: 5/4/22

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REGISTERED PROFESSIONAL ENGINEER
 STATE OF MASSACHUSETTS
 LICENSE NO. 10388

APPROVED BY: *[Signature]*

MASTER MILLWORK, INC.
 41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA



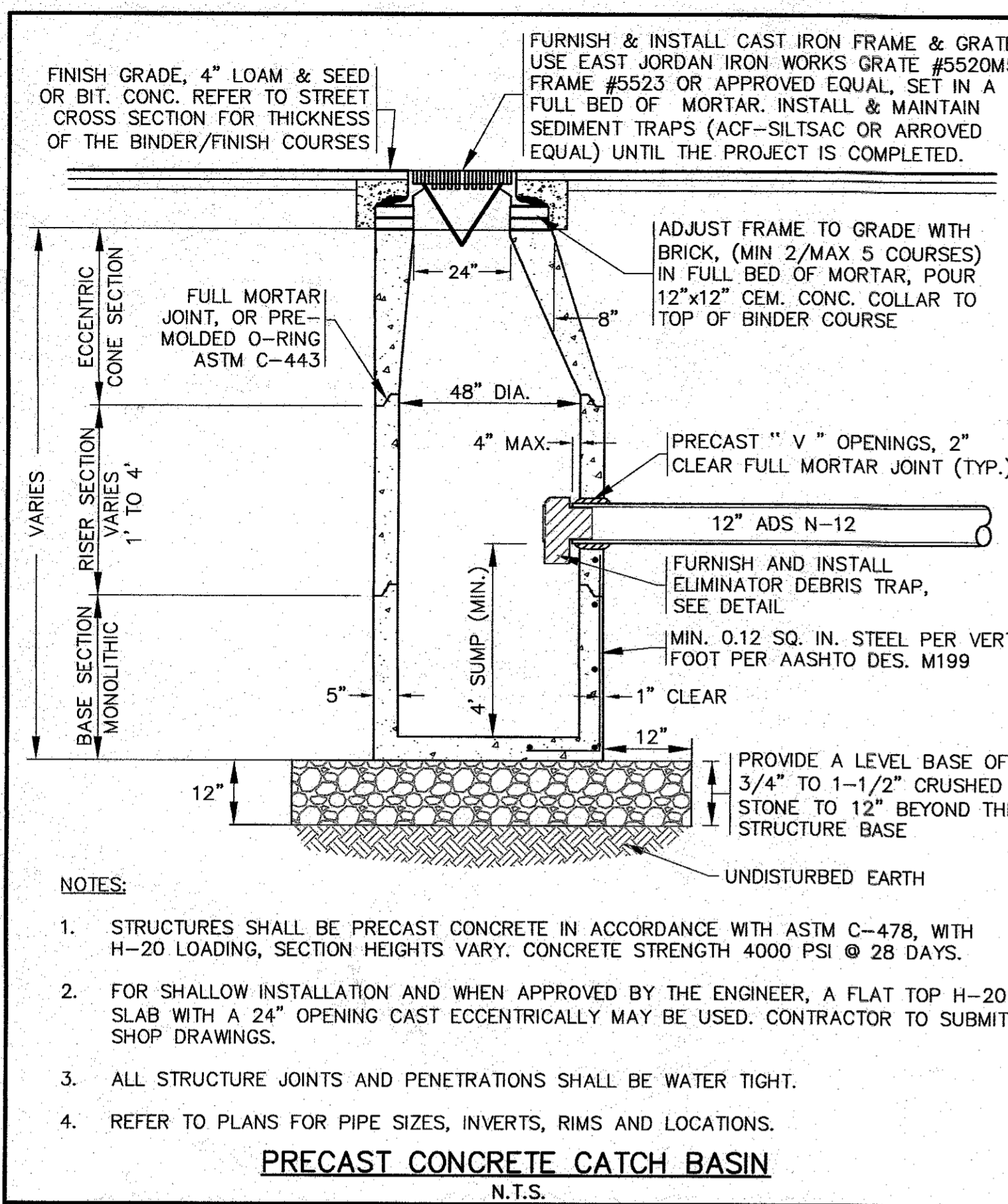
SITE DEVELOPMENT PLAN
DETAIL SHEET 1

PREPARED FOR:
MASTER MILLWORK, INC.
 41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA

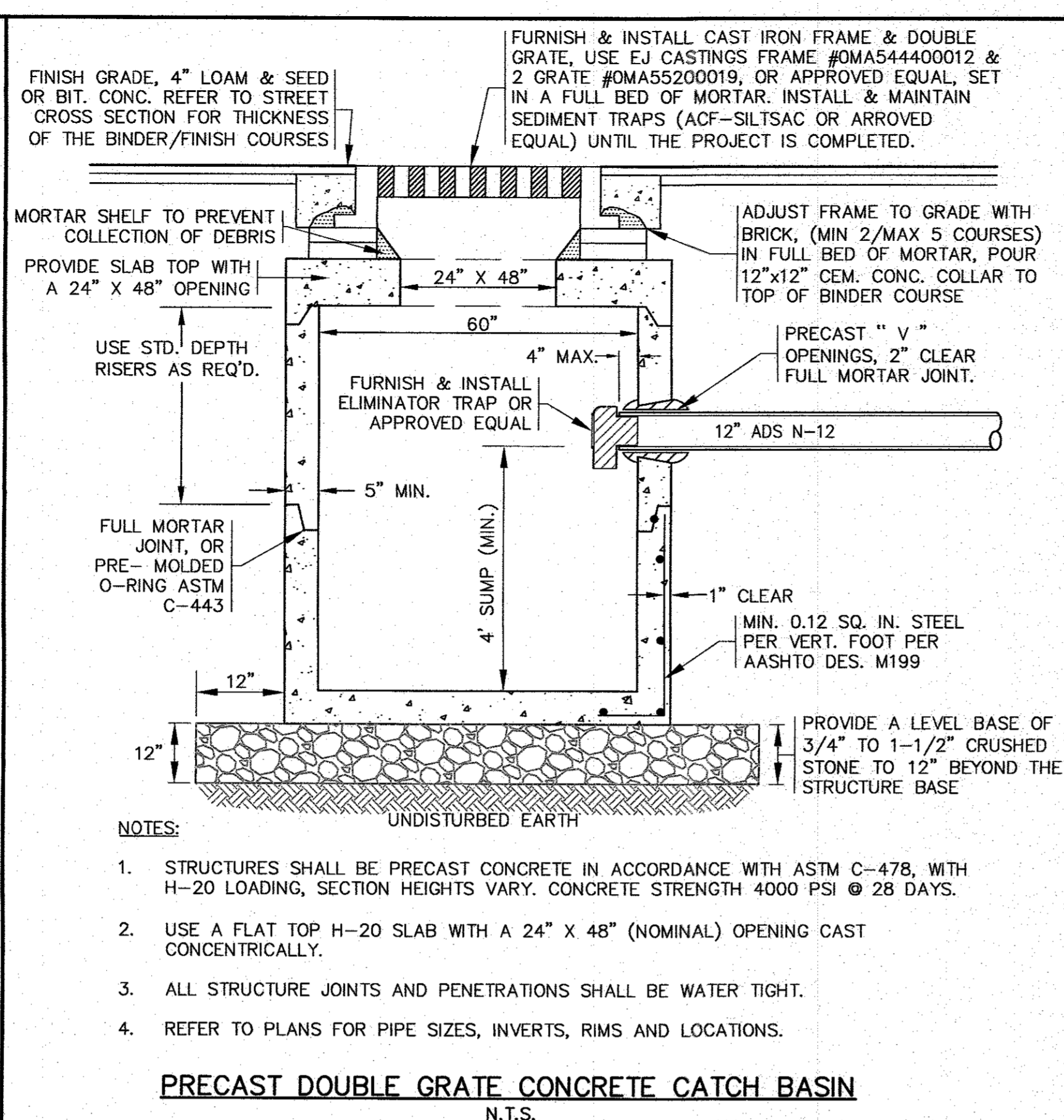
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JOB NO.: 19-9342

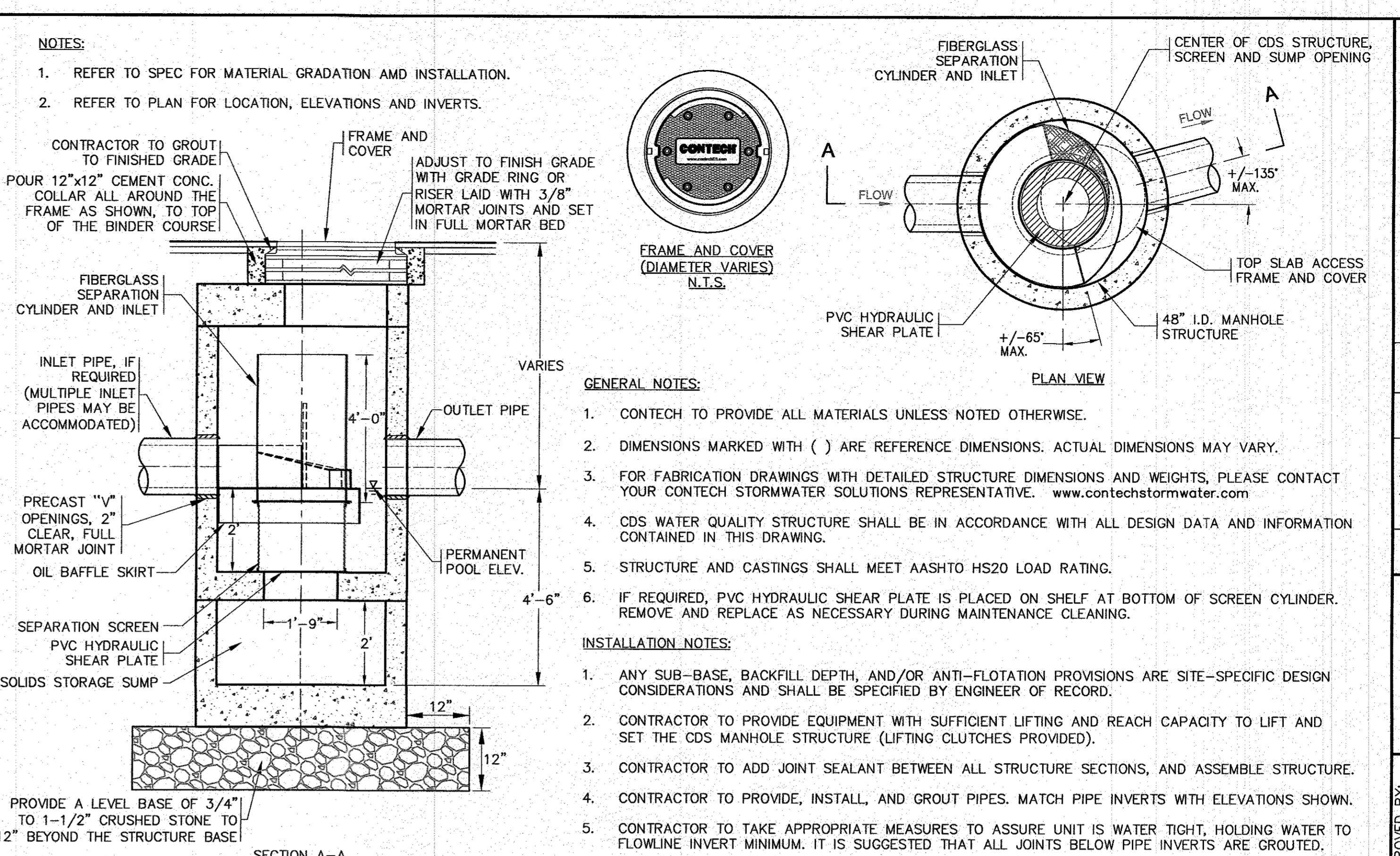
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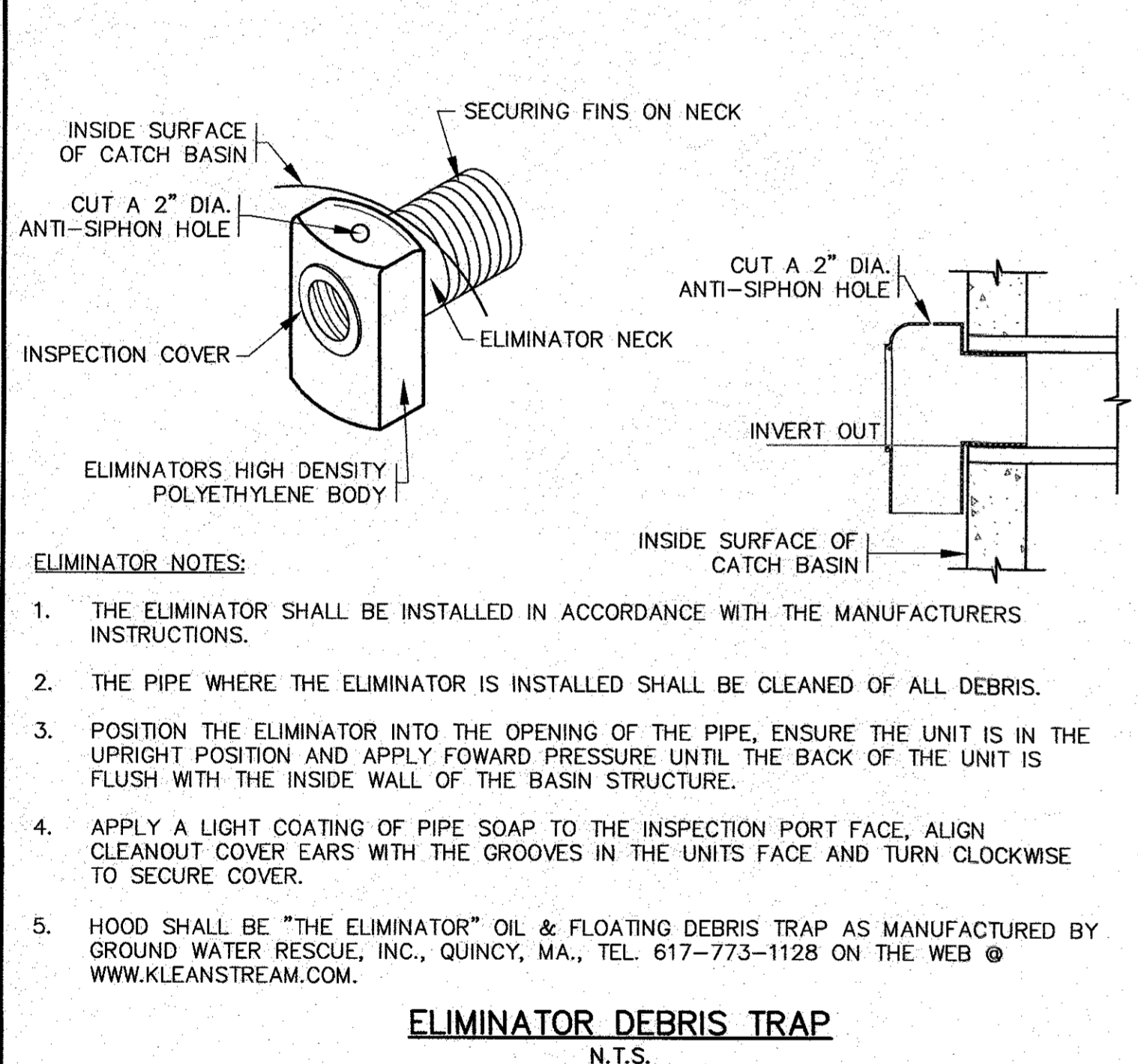
- NOTES:**
- STRUCTURES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478, WITH H-20 LOADING, SECTION HEIGHTS VARY. CONCRETE STRENGTH 4000 PSI @ 28 DAYS.
 - FOR SHALLOW INSTALLATION AND WHEN APPROVED BY THE ENGINEER, A FLAT TOP H-20 SLAB WITH A 24" X 48" OPENING CAST ECCENTRICALLY MAY BE USED. CONTRACTOR TO SUBMIT SHOP DRAWINGS.
 - ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT.
 - REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS.



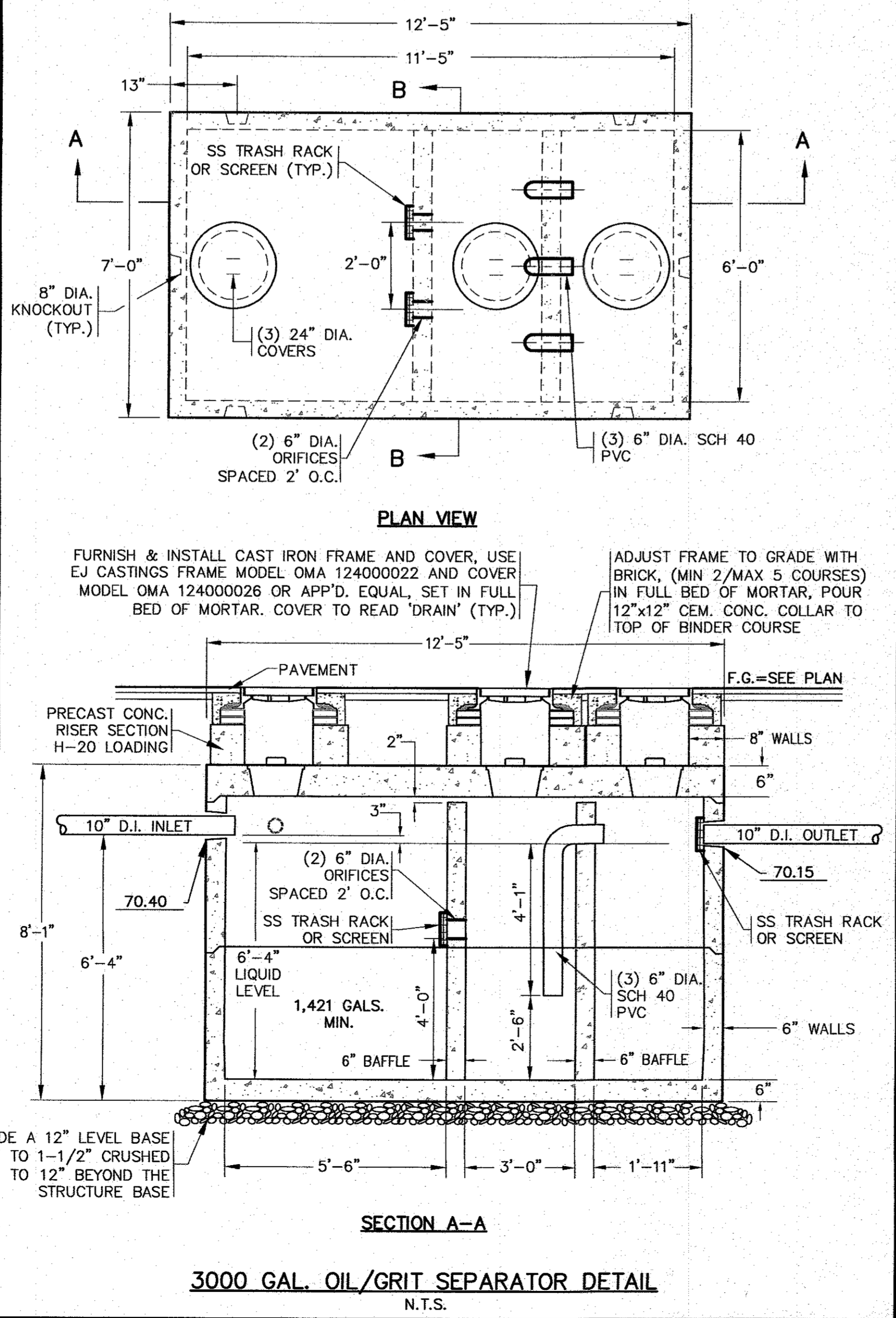
- NOTES:**
- STRUCTURES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478, WITH H-20 LOADING, SECTION HEIGHTS VARY. CONCRETE STRENGTH 4000 PSI @ 28 DAYS.
 - USE A FLAT TOP H-20 SLAB WITH A 24" X 48" (NOMINAL) OPENING CAST CONCENTRICALLY.
 - ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT.
 - REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS.



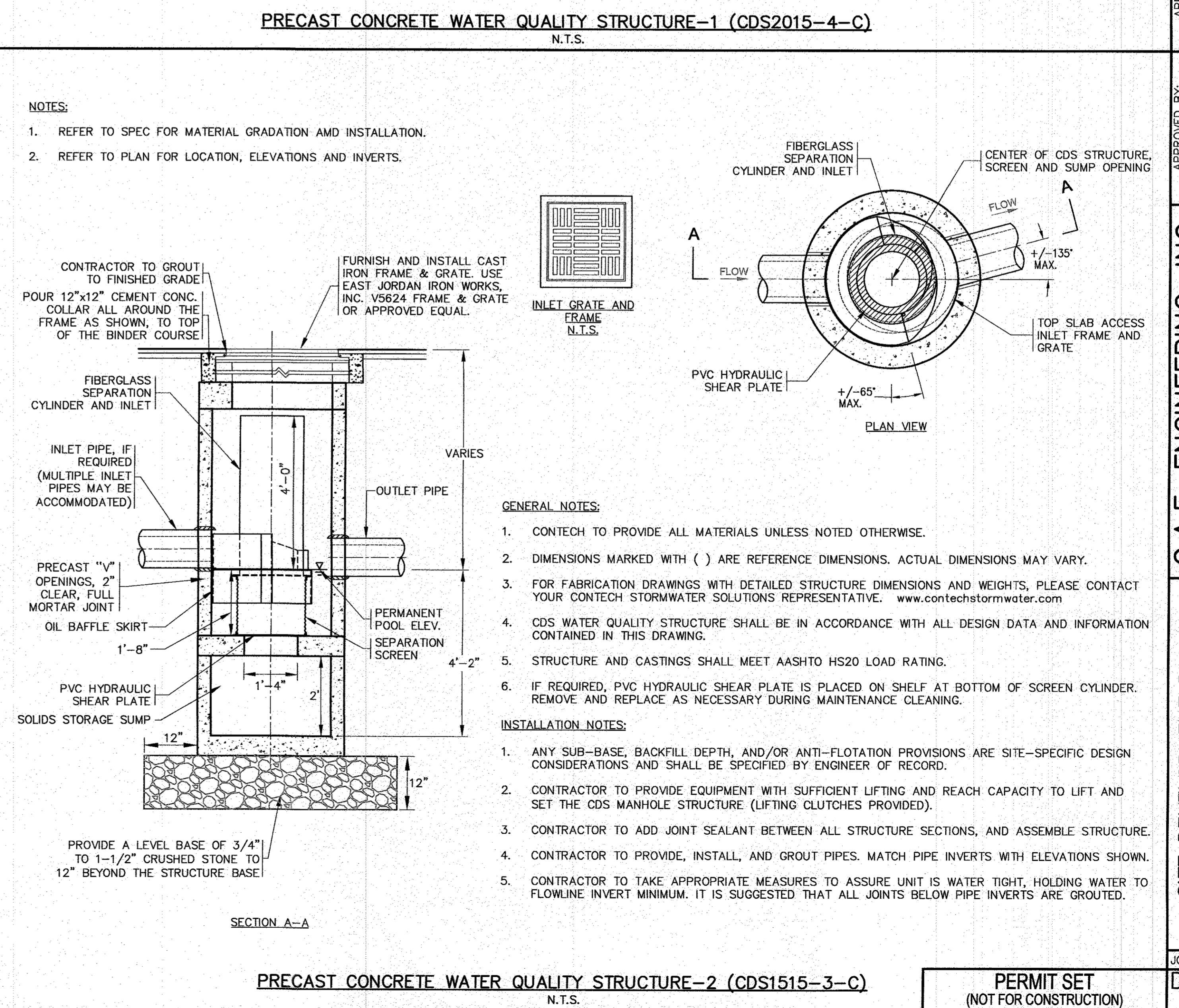
- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
 - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING.
 - IF REQUIRED, 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.



- ELIMINATOR NOTES:**
- THE ELIMINATOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
 - THE PIPE WHERE THE ELIMINATOR IS INSTALLED SHALL BE CLEANED OF ALL DEBRIS.
 - POSITION THE ELIMINATOR INTO THE OPENING OF THE PIPE, ENSURE THE UNIT IS IN THE UPRIGHT POSITION AND APPLY FORWARD PRESSURE UNTIL THE BACK OF THE UNIT IS FLUSH WITH THE INSIDE WALL OF THE BASIN STRUCTURE.
 - APPLY A LIGHT COATING OF PIPE SOAP TO THE INSPECTION PORT FACE, ALIGN CLEANOUT COVER EARS WITH THE GROOVES IN THE UNITS FACE AND TURN CLOCKWISE TO SECURE COVER.
 - HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB @ WWW.KLEANSTREAM.COM.

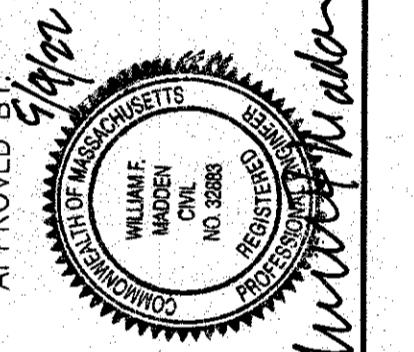


- NOTES:**
- CONCRETE: 5,000 P.S.I. MINIMUM STRENGTH @ 28 DAYS. DENSITY 150 PCF.
 - CEMENT, PORTLAND TYPE I OR III. ASTM C150-81
 - ADMIXTURES, AIR & PLASTICIZERS @ ASTM C233-82.
 - REINFORCING ASTM A615 FOR WIRE FABRIC, GRADE 60 BAR.
 - DESIGN LOADING AASHTO H-20.
 - CONSTRUCTION JOINT-SEALED WITH 1" DIA BUTYL RUBBER OR EQUIVALENT.
 - TANK SHALL BE A 3000 GALLON CAPACITY TANK BY SHEA CONCRETE PRODUCTS OR APPROVED EQUAL.



- 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 STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
 - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING.
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 - 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.

NO CHANGES THIS SHEET	NO CHANGES THIS SHEET	NO CHANGES THIS SHEET	NO CHANGES THIS SHEET	NO CHANGES THIS SHEET	PER PEER REVIEW COMMENTS
DATE: JULY 8, 2020	DATE: JULY 8, 2020	DATE: JULY 8, 2020	DATE: JULY 8, 2020	DATE: JULY 8, 2020	DATE: JULY 8, 2020
DRAWN BY: JWP	DRAWN BY: JWP	DRAWN BY: JWP	DRAWN BY: JWP	DRAWN BY: JWP	DRAWN BY: JWP
CHECKED BY: WFM	CHECKED BY: WFM	CHECKED BY: WFM	CHECKED BY: WFM	CHECKED BY: WFM	CHECKED BY: WFM
JOB NO.: 19-9342	JOB NO.: 19-9342	JOB NO.: 19-9342	JOB NO.: 19-9342	JOB NO.: 19-9342	JOB NO.: 19-9342
SCALE: N.T.S.	SCALE: N.T.S.	SCALE: N.T.S.	SCALE: N.T.S.	SCALE: N.T.S.	SCALE: N.T.S.
REV.	DATE	BY	APP'D	DATE	DESCRIPTION
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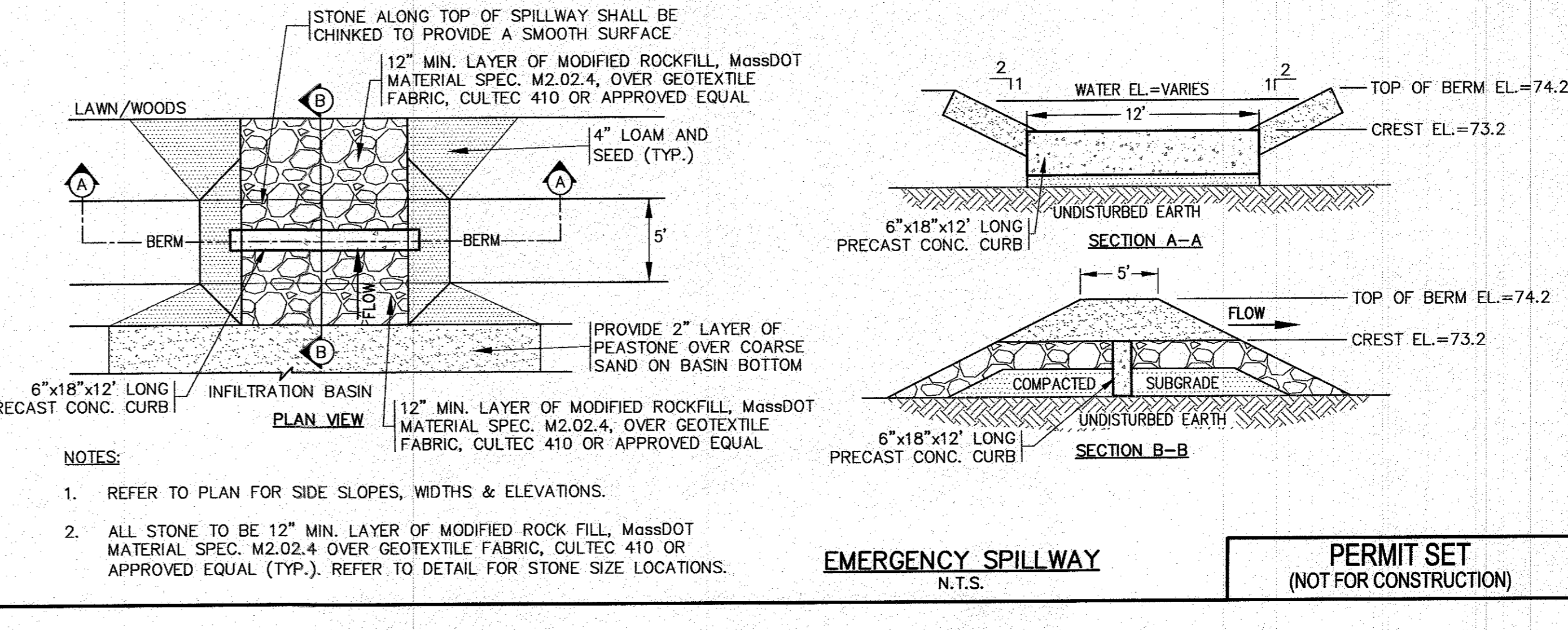
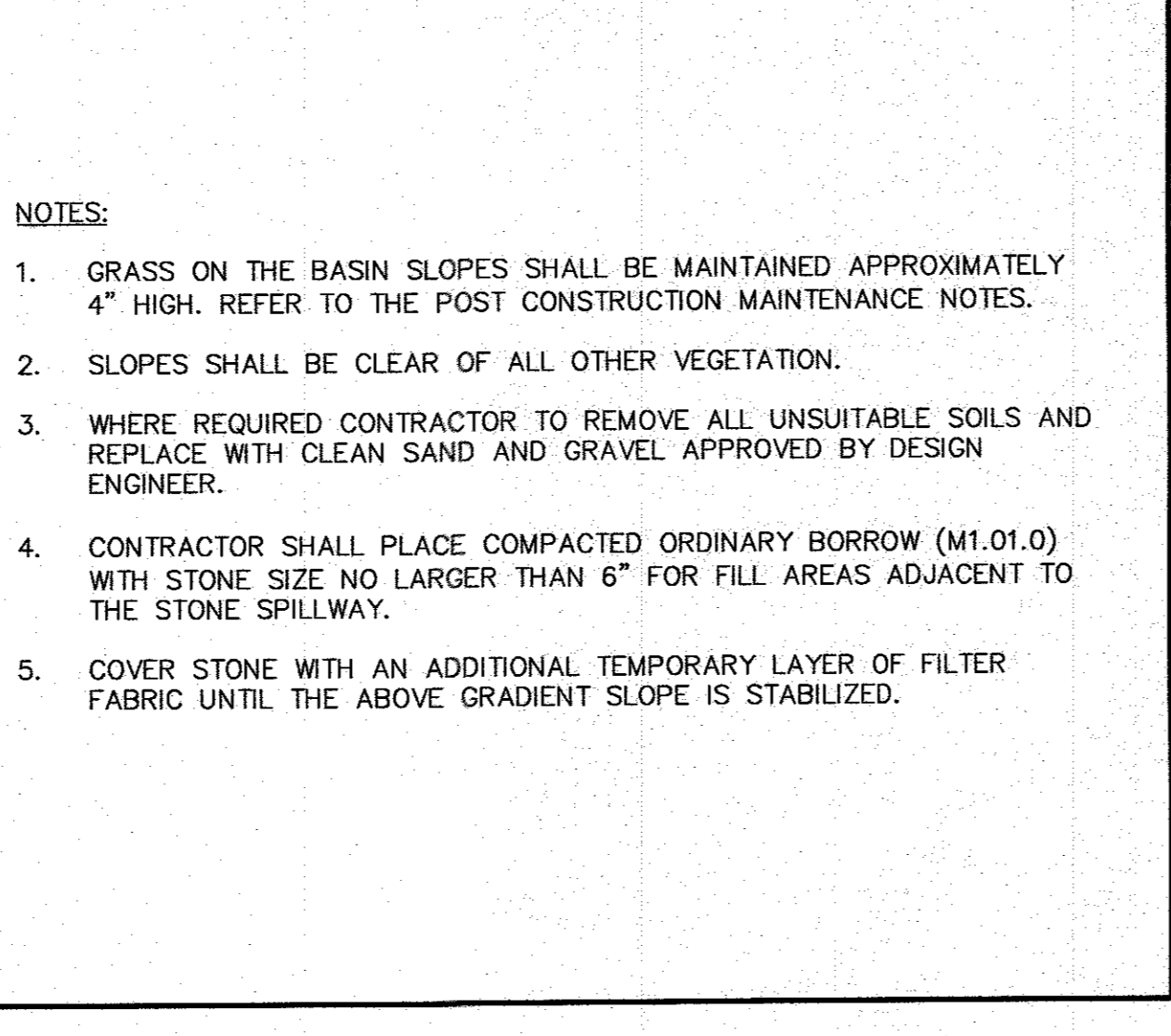
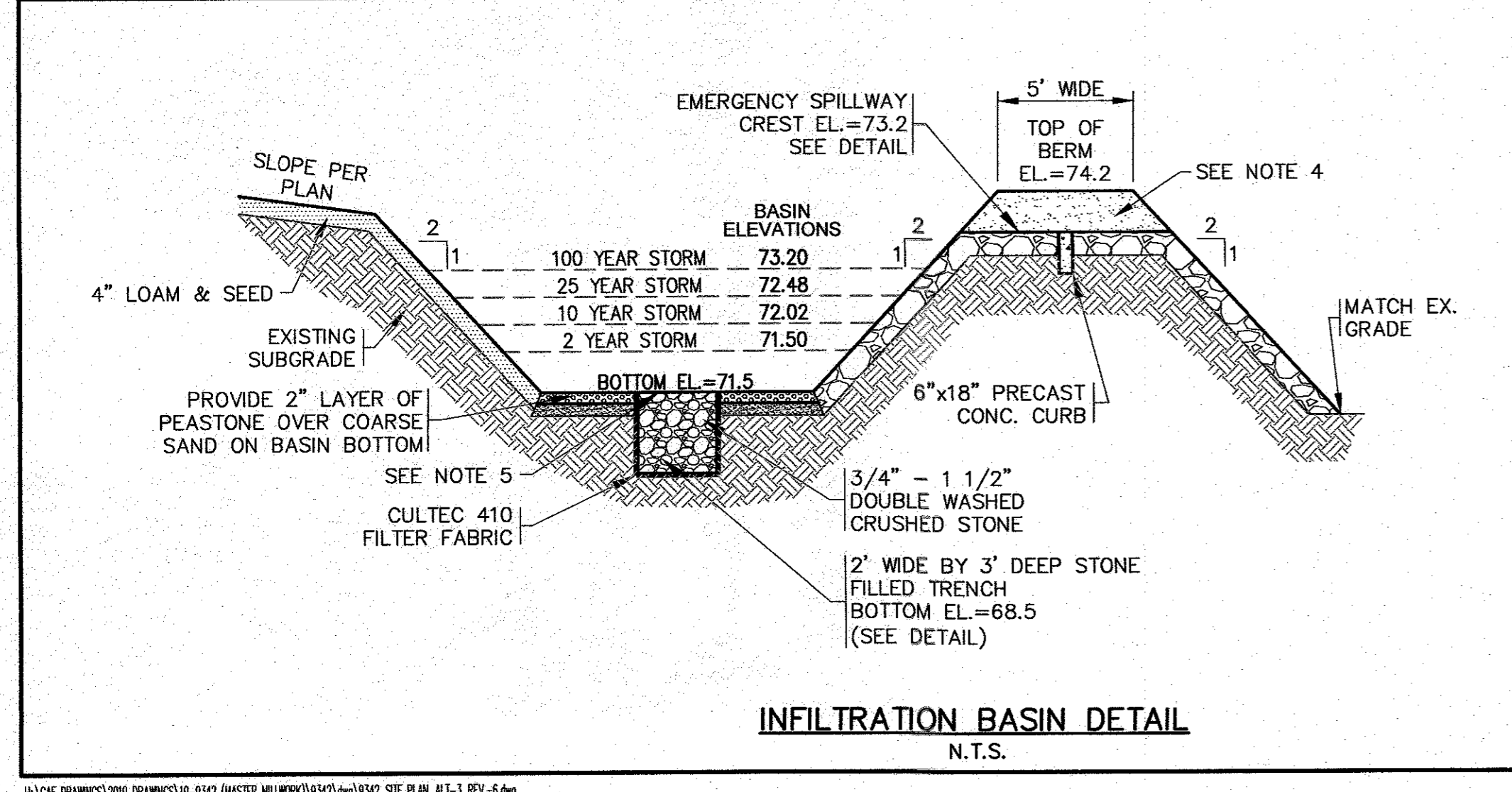
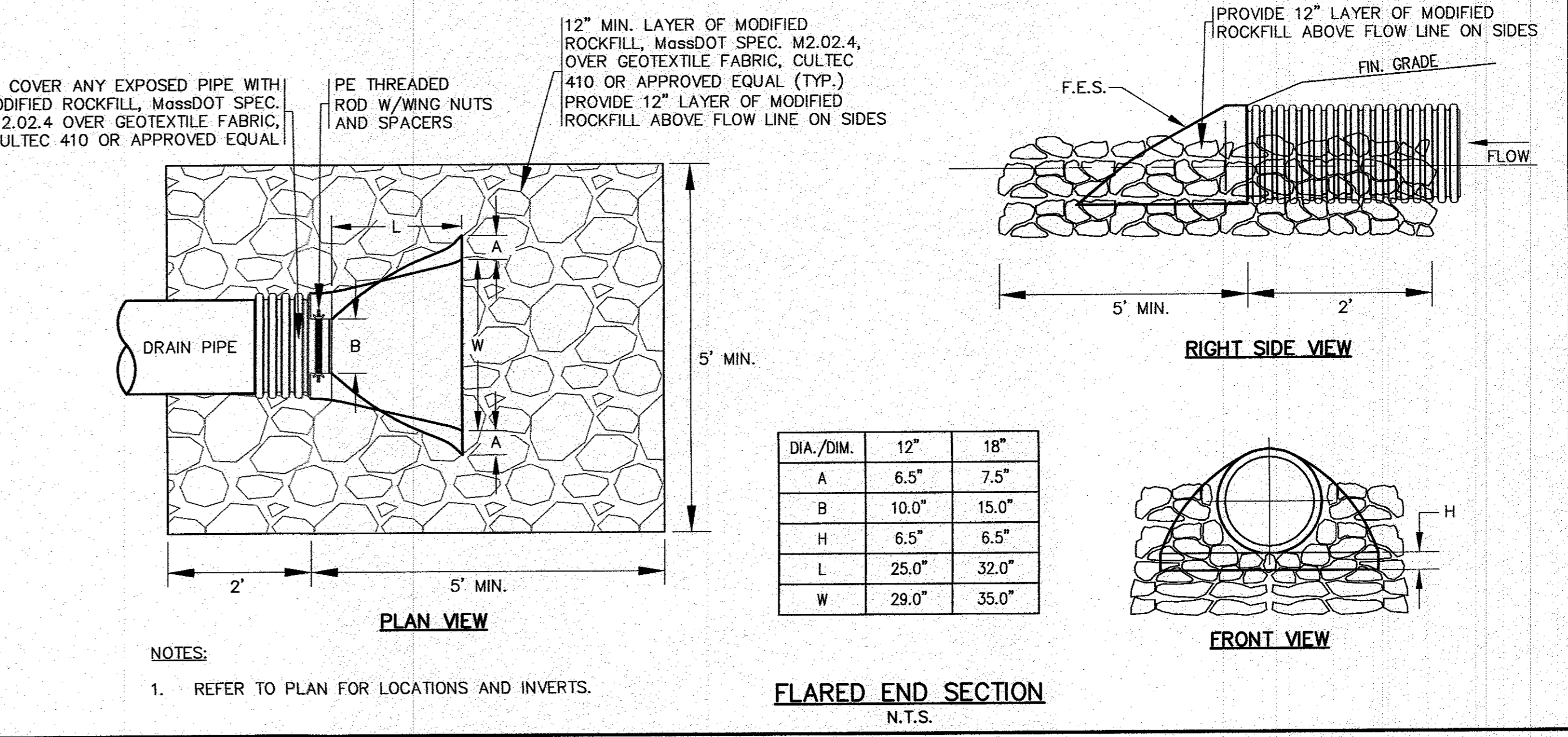
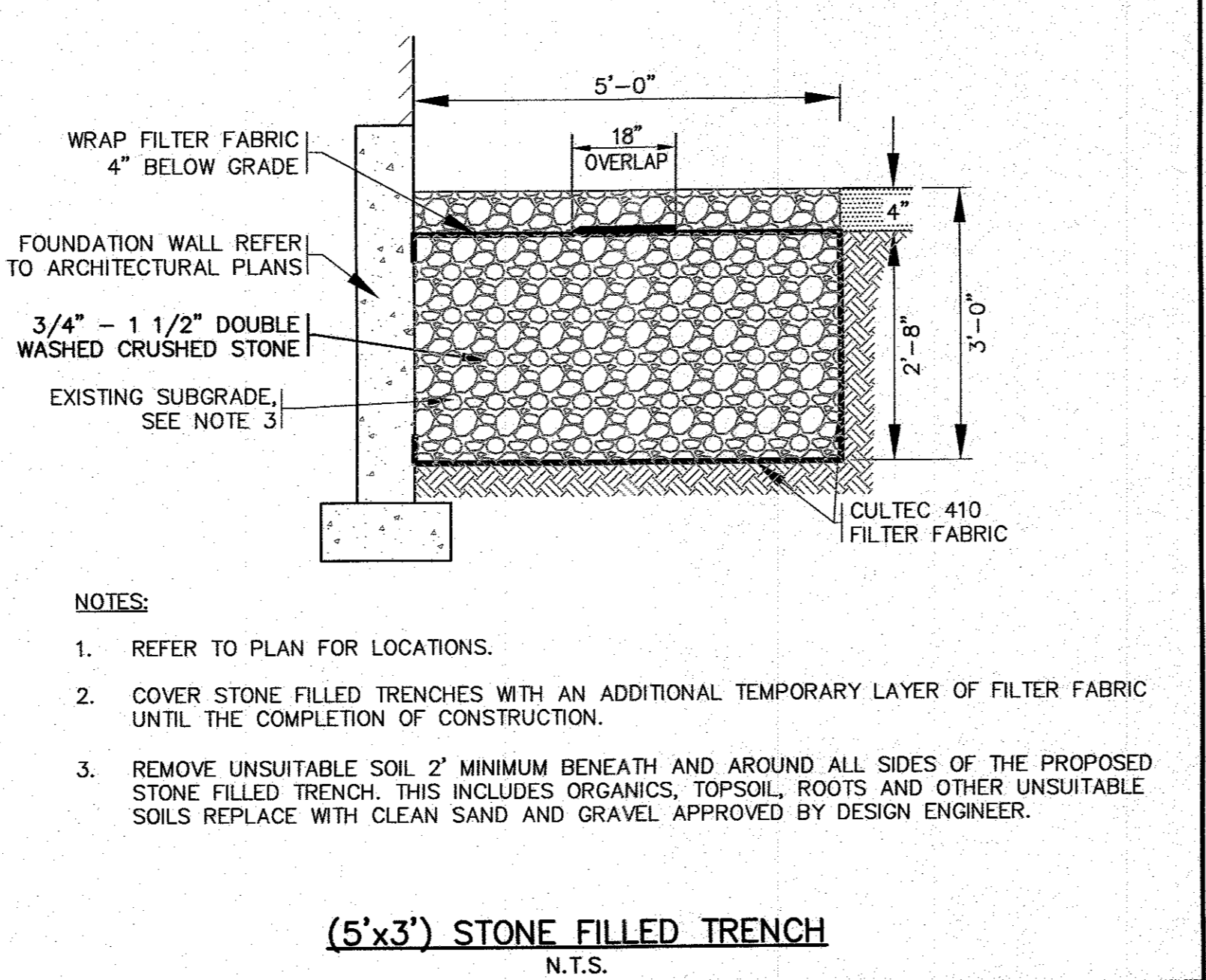
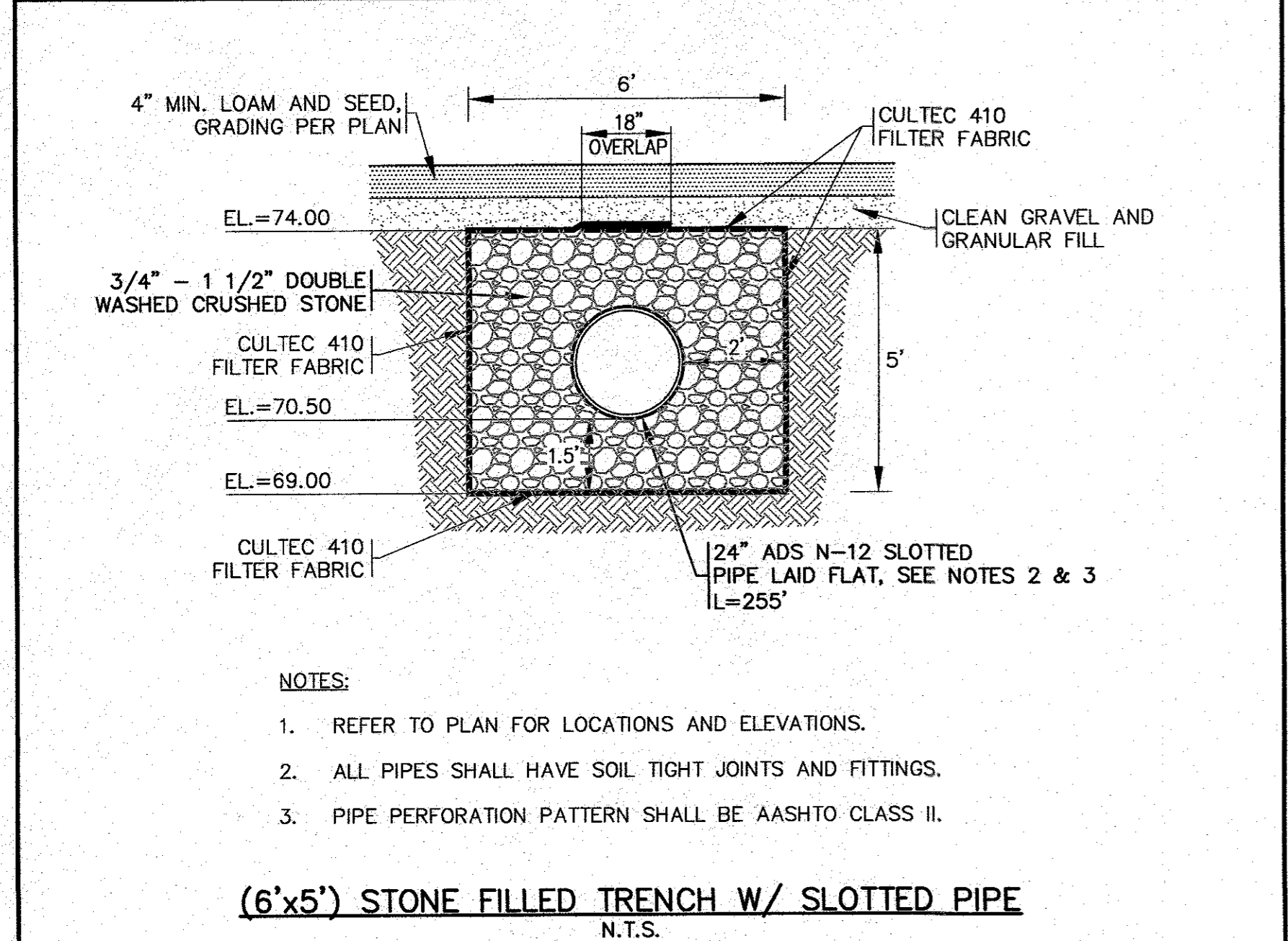
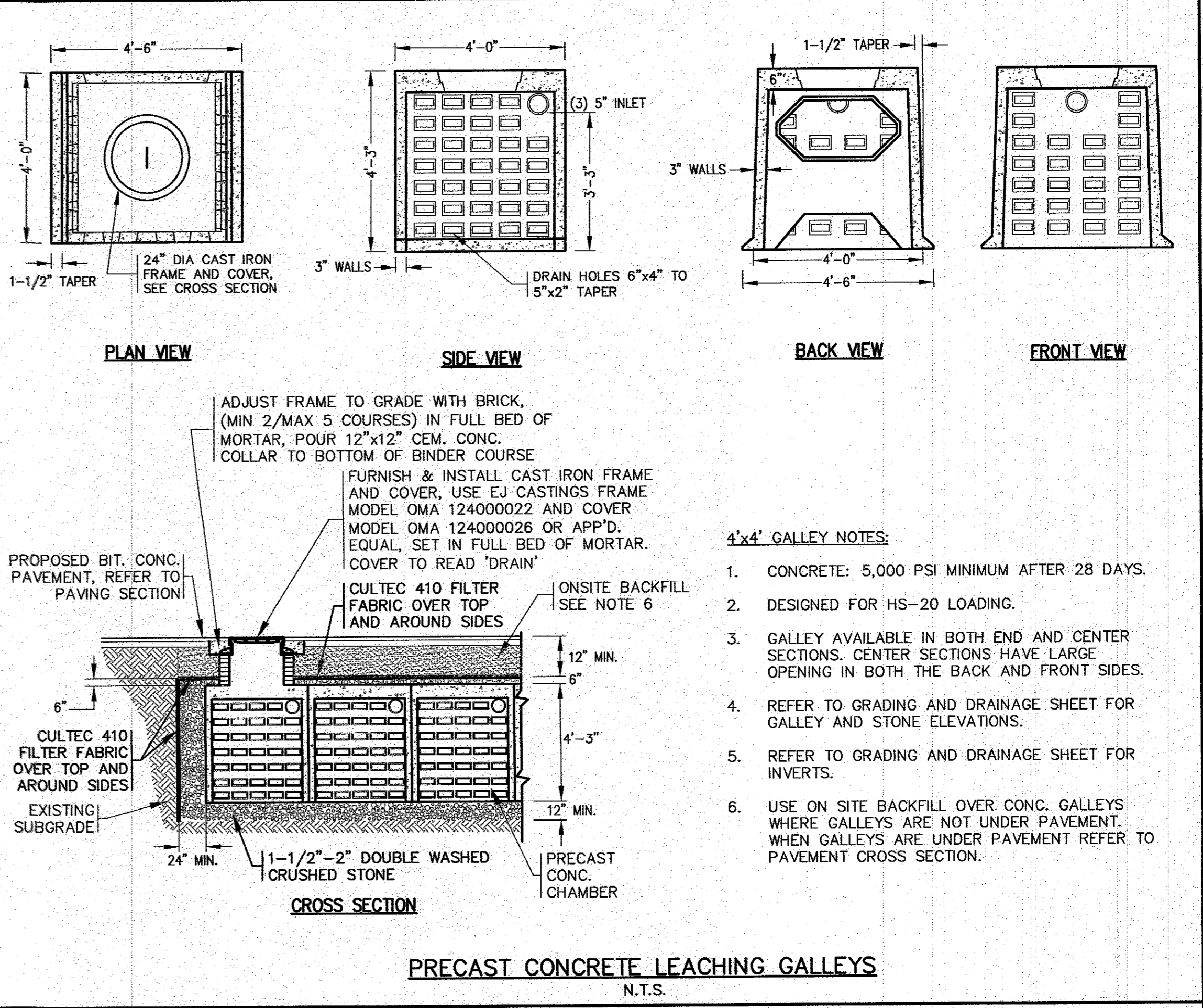
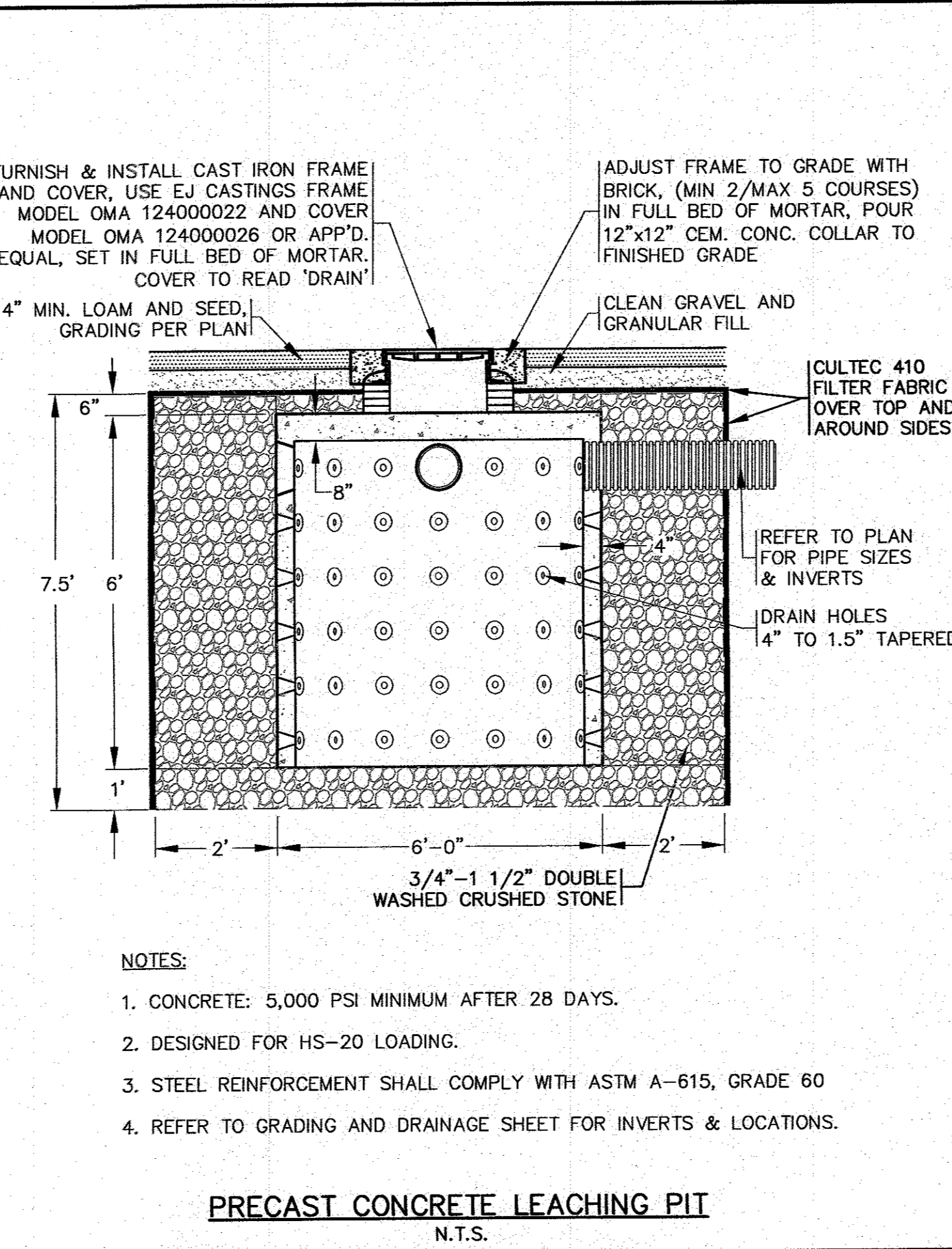
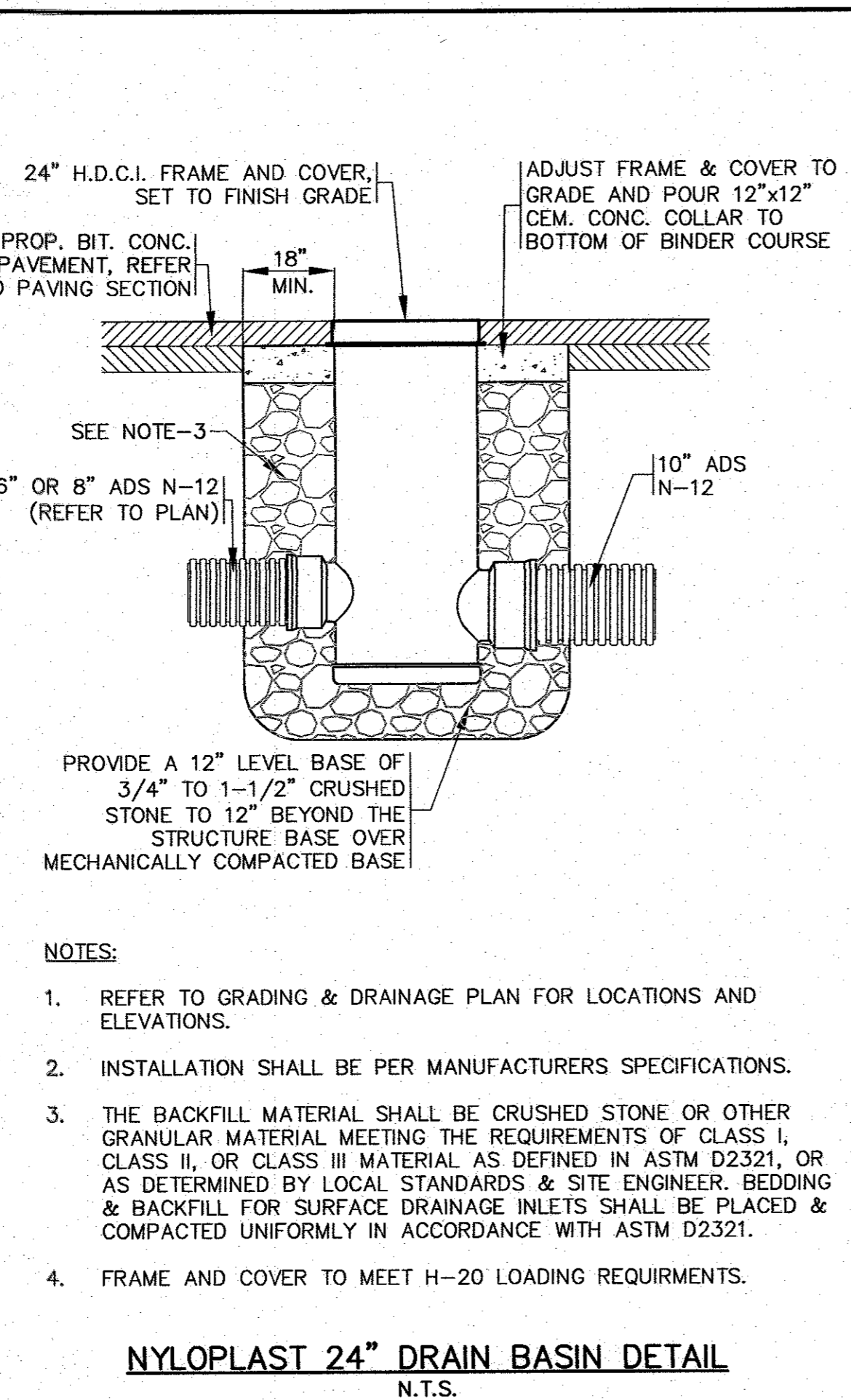
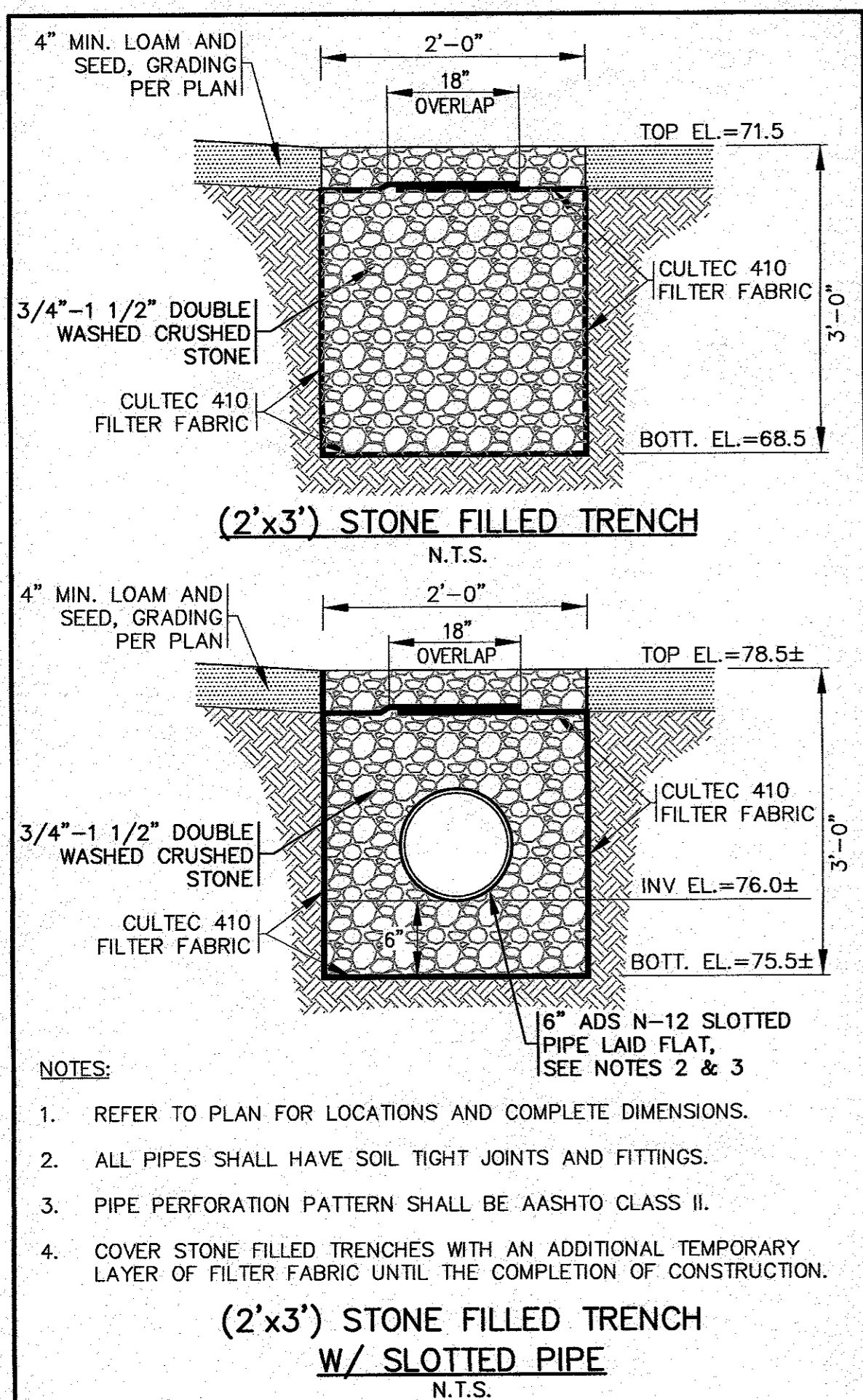


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 E-MAIL: info@gafeng.com

PREPARED FOR:
 MASTER MILLWORK, INC.
 41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA

NO.: 19-9342

DATE: 8 OF 10



APPROVED BY: **G.A.F. ENGINEERING, INC.**
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E-MAIL: info@gafenginc.com

DATE: JULY 6, 2020
DRAWN BY: JMP
CHECKED BY: WFM
JOB NO.: 19-9342
SCALE: N.T.S.

NO CHANGES THIS SHEET
NO CHANGES THIS SHEET
ADDED (2'x3') STONE TRENCH DETAILS
REV. INFILTRATION BASIN DETAIL
PER PEER REVIEW COMMENTS

DATE: 5/4/22
JMP
3/4/22
JMP
3/15/21
JMP
9/2/20
WFM
8/20/20
JMP
8/10/20
WFM

BY: WFM
DATE: 5/4/22
REV. DATE: 3/4/22
REV. DATE: 3/15/21
REV. DATE: 9/2/20
REV. DATE: 8/20/20
REV. DATE: 8/10/20

DESCRIPTION: NO CHANGES THIS SHEET
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ADDED (2'x3') STONE TRENCH DETAILS
REV. INFILTRATION BASIN DETAIL
PER PEER REVIEW COMMENTS

APPROVED BY: **MASTER MILLWORK, INC.**
55 CHARLOTTE FURNACE ROAD WAREHAM, MA
41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA

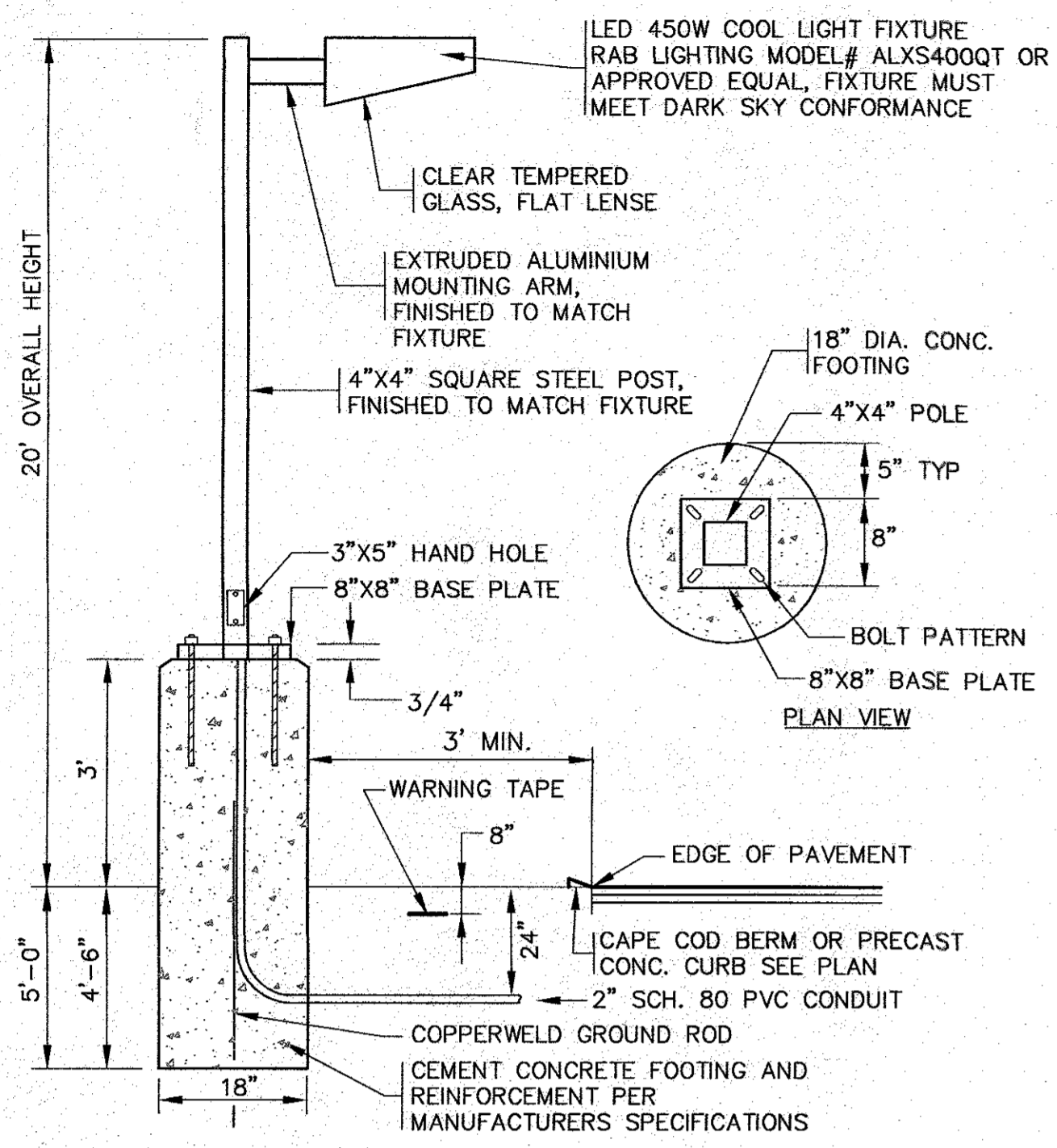
PREPARED FOR: **MASTER MILLWORK, INC.**

DATE: 5/4/22
JMP
3/4/22
JMP
3/15/21
JMP
9/2/20
WFM
8/20/20
JMP
8/10/20
WFM

JOB NO.: 19-9342

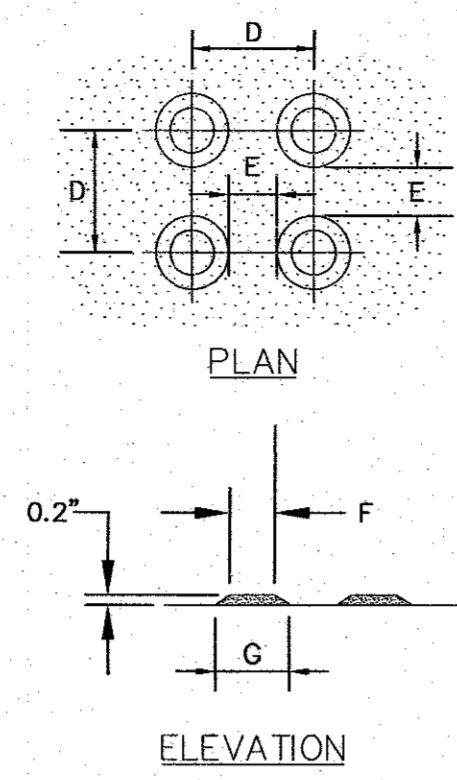
DWG. 9 OF 10

PERMIT SET (NOT FOR CONSTRUCTION)



- NOTES:**
- CIRCUIT CONDUCTORS TO BE PULLED AND TERMINATED BY ELECTRIC CONTRACTOR TO COORDINATE.
 - CONTRACTOR TO COORDINATE WITH OWNER ON FINAL LIGHT FIXTURE SPECIFICATIONS.
 - ALL MOUNTING HARDWARE AND INSTALLATION SHALL BE PER MANUFACTURER SPECIFICATIONS.
 - ALL LIGHTING LAYOUT & FIXTURES SHALL COMPLY WITH SECTION 1240 (LIGHTING) OF THE TOWN OF WAREHAM ZONING BYLAW.

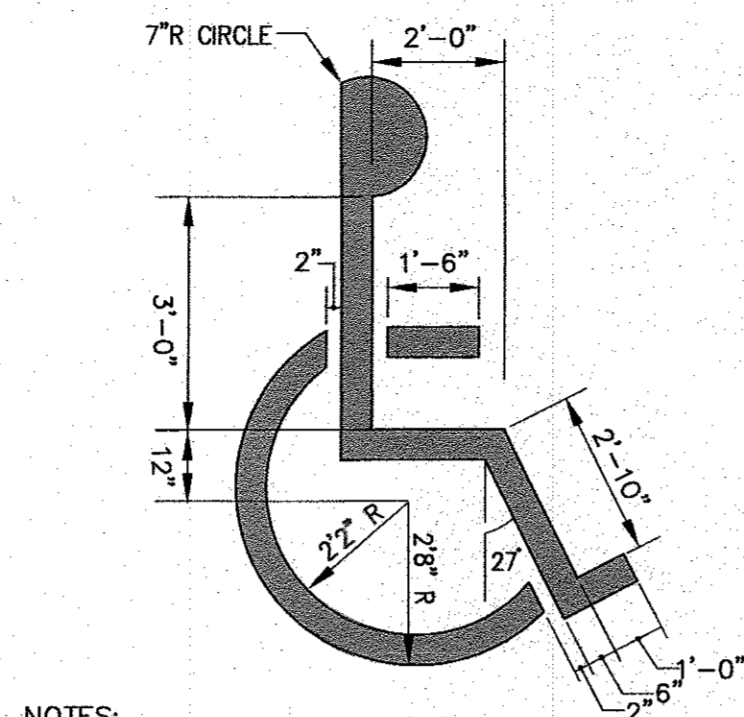
STANDARD LIGHT POLE W/BASE
N.T.S.



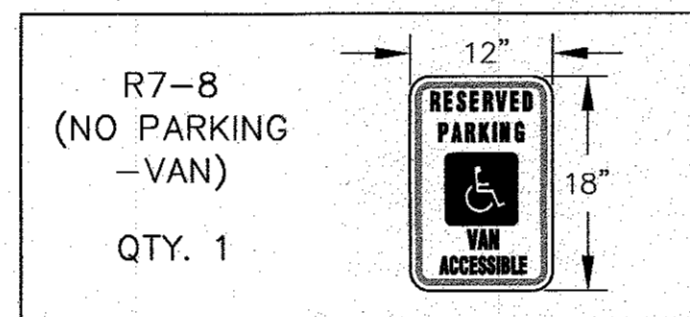
	D	E	F	G
MIN.	1.60"	.65"	.45"	.90"
MAX.	2.40"	1.50"	.80"	1.40"

- NOTES:**
- REFER TO PLAN FOR LOCATIONS.
 - ALL WORK SHALL COMPLY TO ADA SPECIFICATIONS AND MASSDOT CONSTRUCTION STANDARD DETAILS.

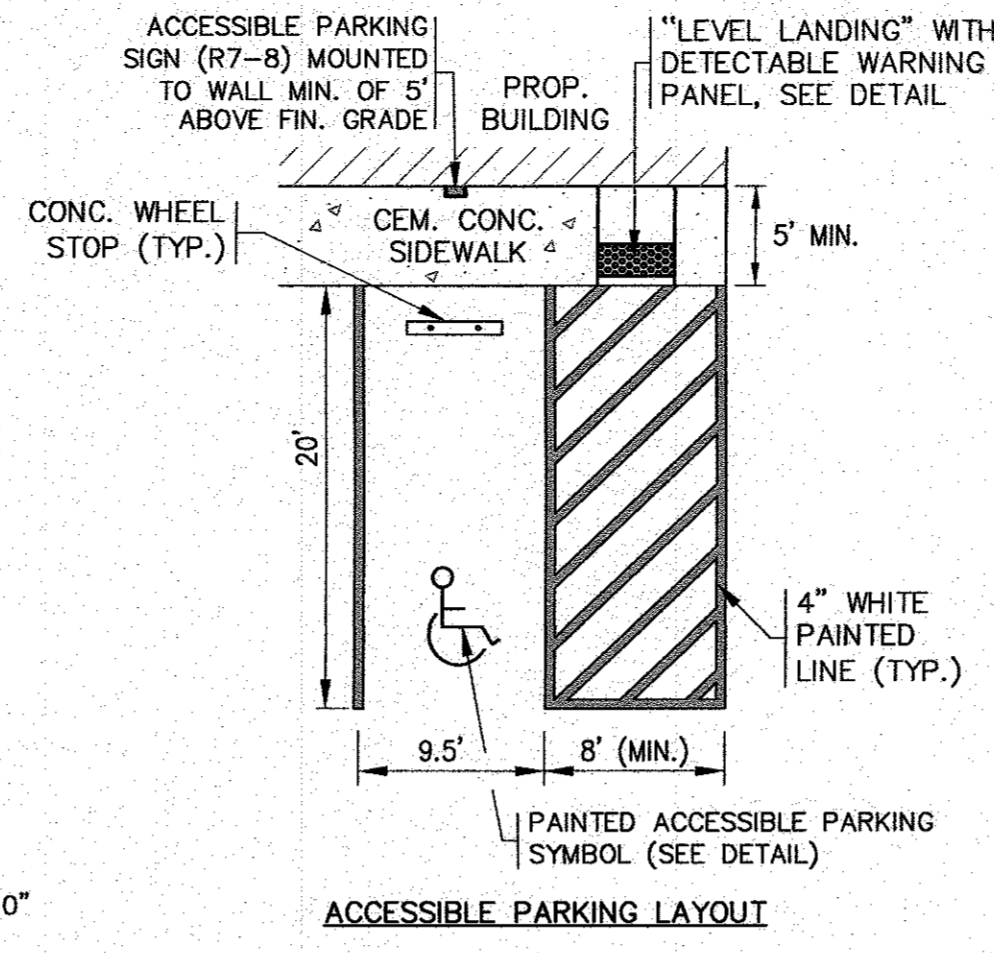
TRUNCATED DOME DETECTABLE WARNING PANEL
N.T.S.



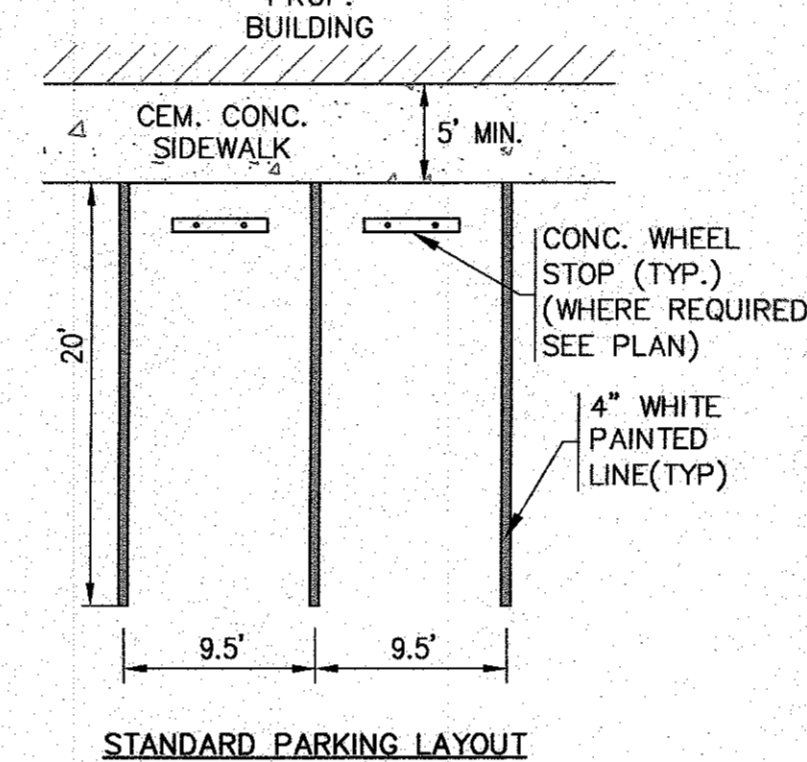
- NOTES:**
- ACCESSIBLE SYMBOL PAINT SHALL CONFORM TO STRIPING PAINT AS SPECIFIED. (SYMBOL SHALL BE CENTERED IN STALL).
 - SIGNAGE TO CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OF STREETS AND HIGHWAYS OR APPROVED EQUAL.
 - PARKING AREA PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.



ACCESSIBLE PARKING PAINT SYMBOL AND SIGN
N.T.S.

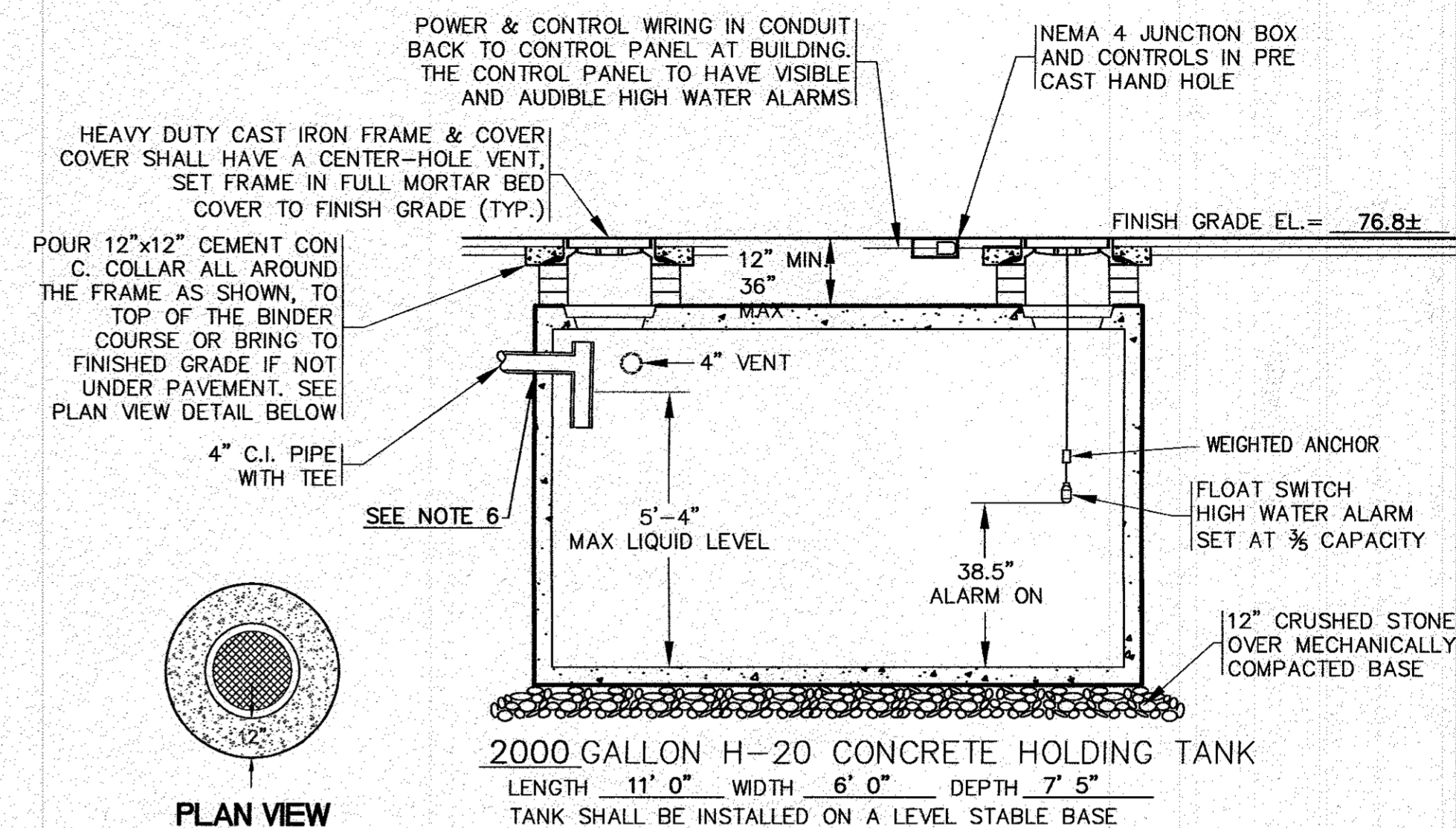


ACCESSIBLE PARKING LAYOUT



STANDARD PARKING LAYOUT

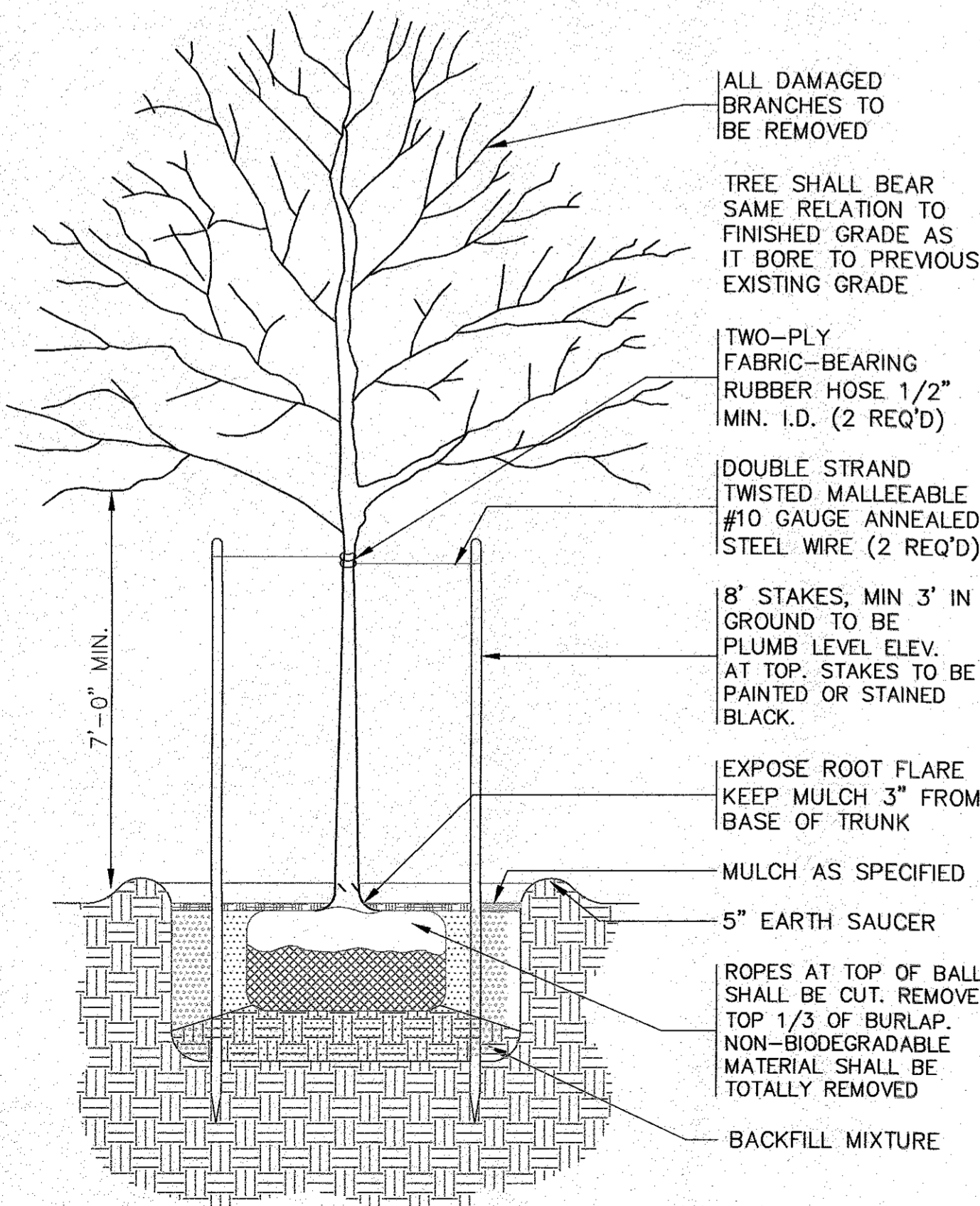
ACCESSIBLE PARKING AND STANDARD PARKING LAYOUTS
N.T.S.



2000 GALLON H-20 CONCRETE HOLDING TANK
LENGTH 11'-0" WIDTH 6'-0" DEPTH 7'-5"
TANK SHALL BE INSTALLED ON A LEVEL STABLE BASE

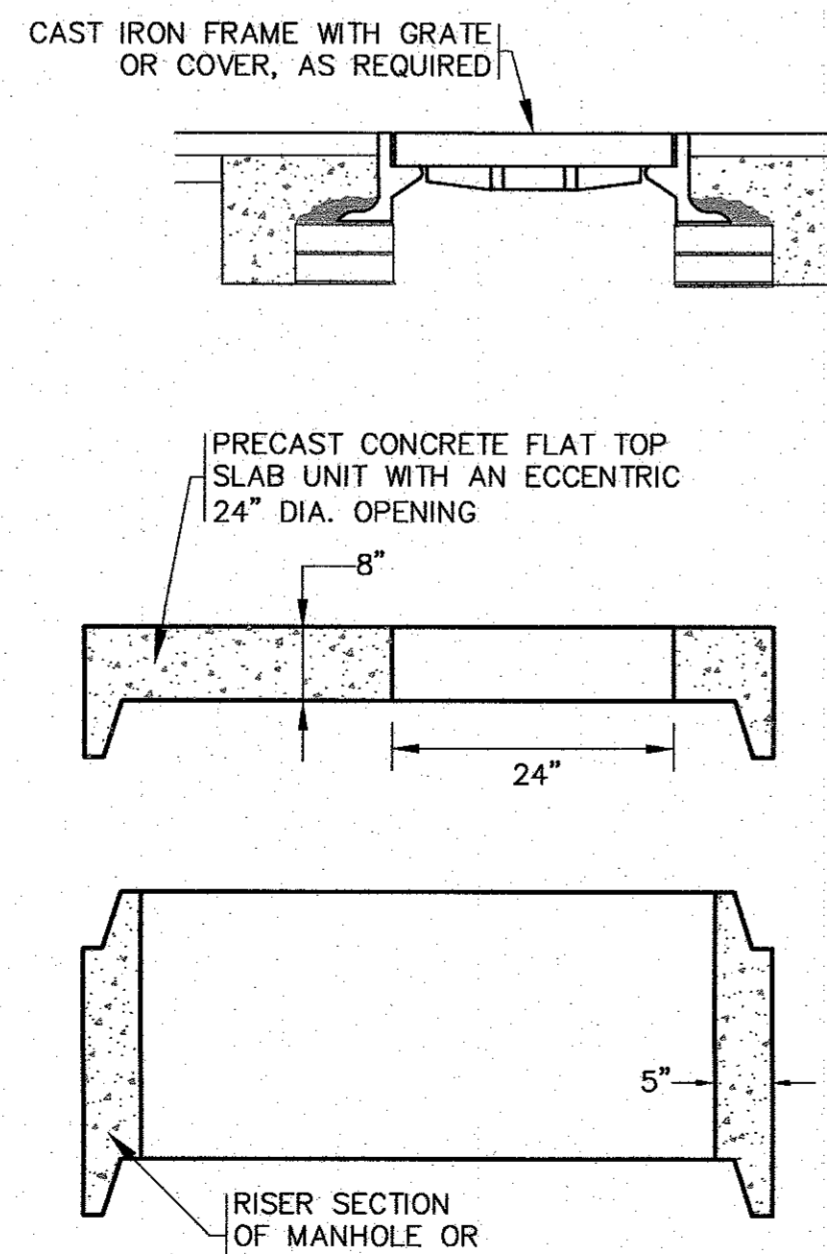
- NOTES:**
- TIGHT TANK CONSTRUCTION AND INSTALLATION SHALL CONFORM TO 310 CMR 15.260 AS APPLICABLE FOR CONNECTION TO FLOOR DRAINS. TIGHT TANK SHALL BE WATERPROOF AND WATERTIGHT.
 - CONCRETE MINIMUM STRENGTH: 5000 PSI @ 28 DAYS STEEL REINFORCEMENT: ASTM-A-615-68, GRADE 60 DESIGN LOADING: STANDARD UNITS AASHO-H20.
 - 310 CMR 15.228: (1) SEPTIC TANK SHALL BE INSTALLED LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ON TO WHICH 12" OF CRUSHED STONE HAS BEEN PLACED.
 - ALL MOUNTING BRACKETS AND ATTACHING HARDWARE SHALL BE GALVANIZED OR NONCORROSIIVE CONSTRUCTION.
 - THE PROPOSED 2000 GALLON TIGHT TANK SHALL BE EQUIPPED WITH BOTH AUDIBLE & VISUAL ALARMS, TO WARN WHEN THE TANK IS 3/5 FULL. THE ALARM PANEL SHALL BE MOUNTED IN A READILY VISIBLE LOCATION ON THE BUILDING.
 - CONTRACTOR SHALL VERIFY THE BUILDING SEWER INVERT PRIOR TO INSTALLATION OF THE TIGHT TANK. TANK INVERT SHALL BE DETERMINED IN THE FIELD AT TIME OF CONSTRUCTION.
 - TIGHT TANK SHALL BE POSTED "NON-HAZARDOUS INDUSTRIAL WASTEWATER".
 - FINAL HOLDING TANK SIZE AND SPECIFICATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER.

2000 GALLON H-20 NON-HAZARDOUS TIGHT TANK
N.T.S.



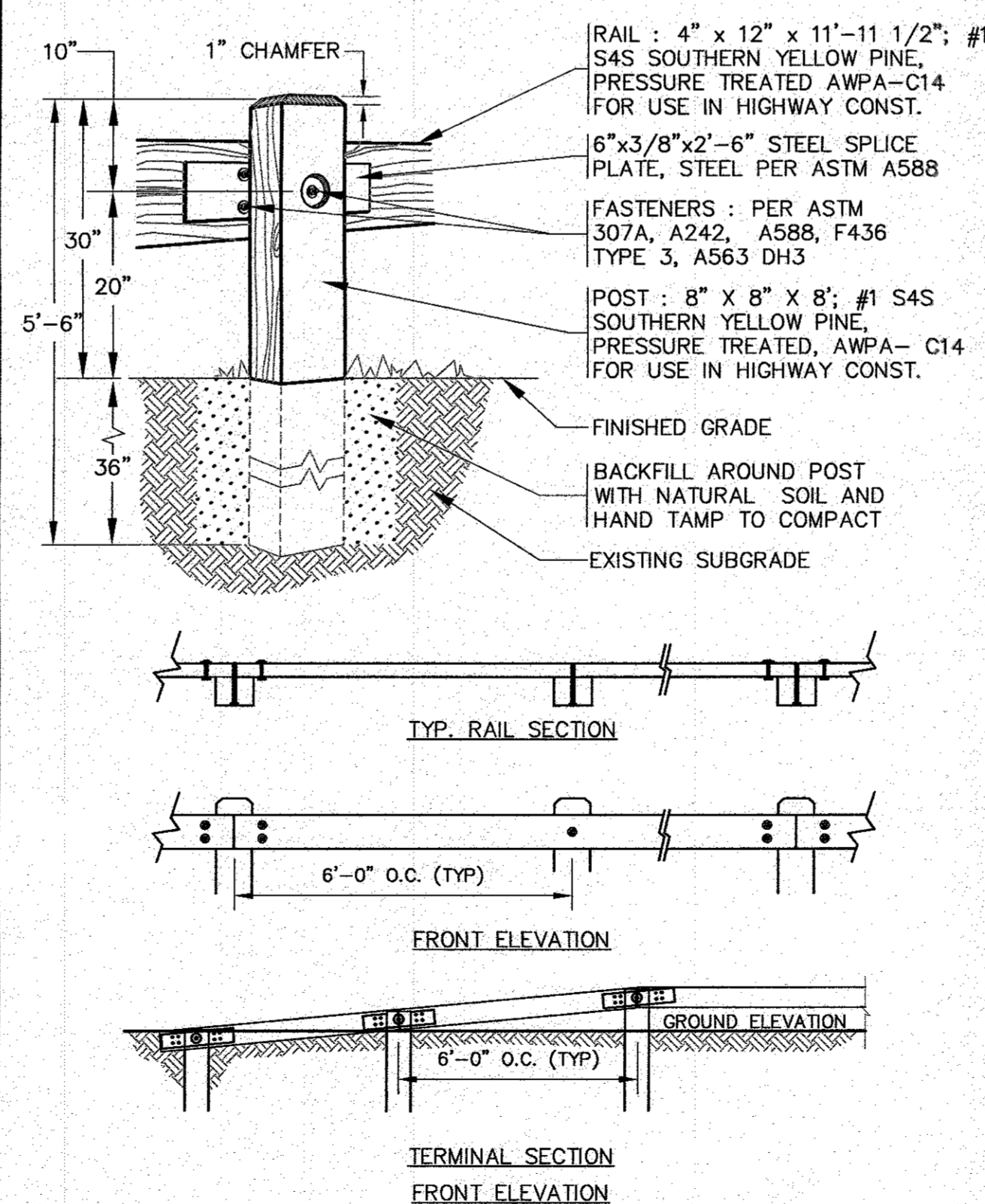
- NOTES:**
- REFER TO LANDSCAPING PLAN FOR PLANTING LOCATIONS.

SHADE TREE PLANTING DETAIL
N.T.S.



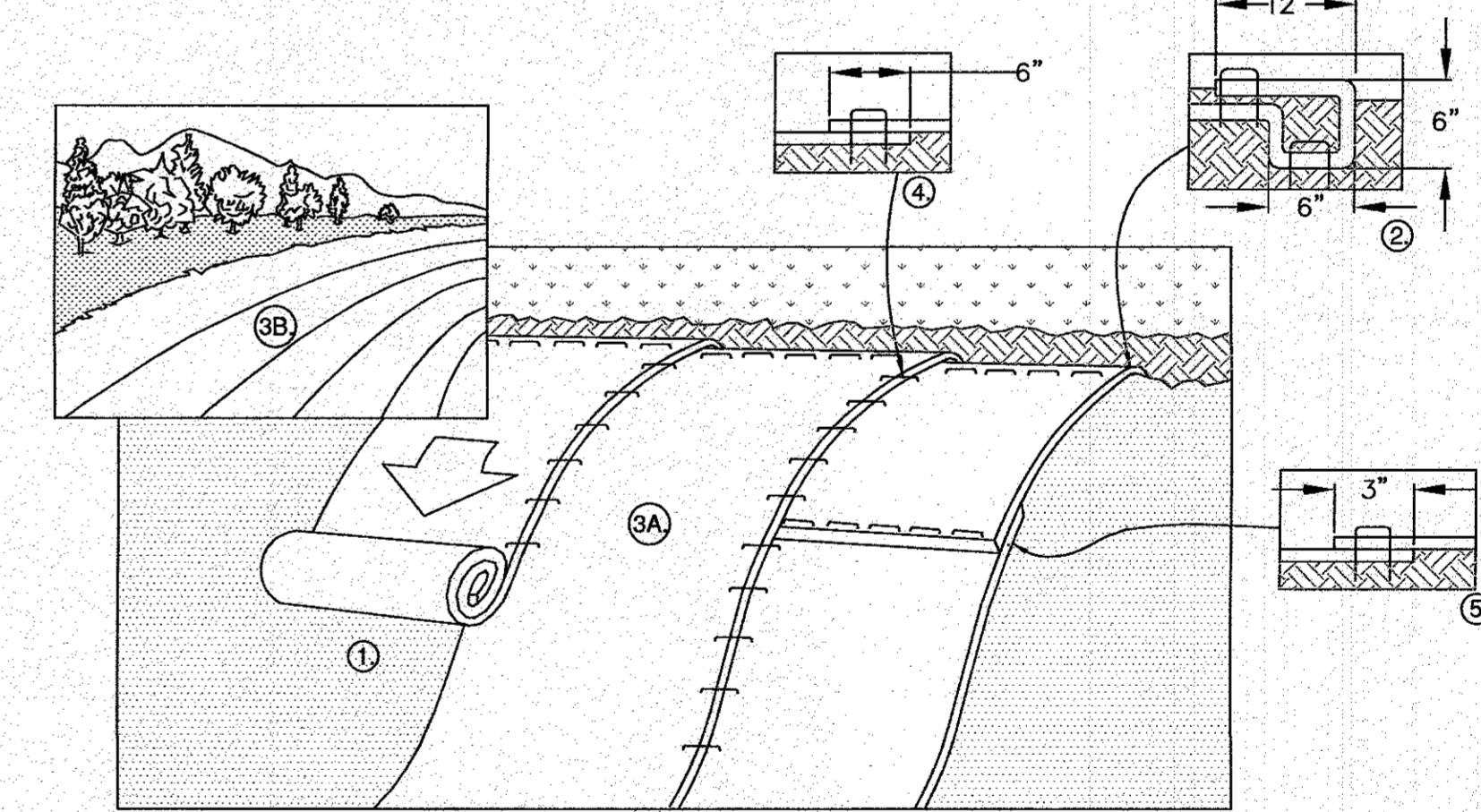
- NOTES:**
- FOR COMPLETE DETAILS REFER TO MANUFACTURER SPECIFICATIONS.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS.

FLAT TOP SLAB
N.T.S.



- NOTES:**
- CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL TIMBER GUARD RAIL SPECIFICATIONS AND DETAILS.
 - REFER TO PLAN FOR LOCATIONS.

TYPICAL TIMBER GUARD RAIL DETAIL
N.T.S.



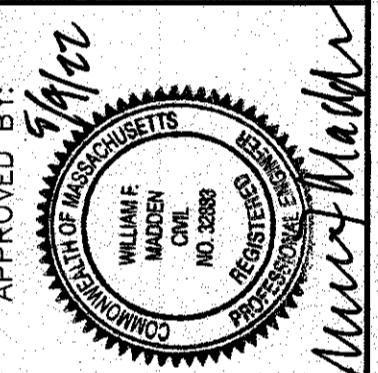
- NOTES:**
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.
 - ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP.
 - CONSECUTIVE RECP's SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP's WIDTH. NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
 - REFER TO NORTH AMERICAN GREEN FOR INSTALLATION METHODS AND STAPLE CONFIGURATION FOR PRODUCT #C125BN.

EROSION CONTROL BLANKET SLOPE DETAIL
N.T.S.

PERMIT SET
(NOT FOR CONSTRUCTION)

NO	CHANGES THIS SHEET	DATE	BY	DESCRIPTION
6	NO CHANGES THIS SHEET	5/4/22	JMP	WFM
5	NO CHANGES THIS SHEET	3/4/22	JMP	WFM
4	NO CHANGES THIS SHEET	3/15/21	JMP	WFM
3	ADDED FLAT TOP SLAB DETAIL	9/2/20	JMP	WFM
2	NO CHANGES THIS SHEET	8/20/20	JMP	WFM
1	ADDED TIMBER GUARD RAIL DETAIL	8/10/20	JMP	WFM

DATE: JULY 8, 2020
 DRAWN BY: JMP
 CHECKED BY: WFM
 JOB NO.: 19-9342
 SCALE: N.T.S.



G.A.F. ENGINEERING, INC.
 PROFESSIONAL ENGINEERS & LAND SURVEYORS
 266 MAIN STREET - WAREHAM, MA 02571
 TEL: (508) 295-6600 FAX: (508) 295-6634
 E-MAIL: info@gafeng.com

PREPARED FOR:
MASTER MILLWORK, INC.
 41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA

SITE DEVELOPMENT PLAN
DETAIL SHEET 4

JOB NO.: 19-9342