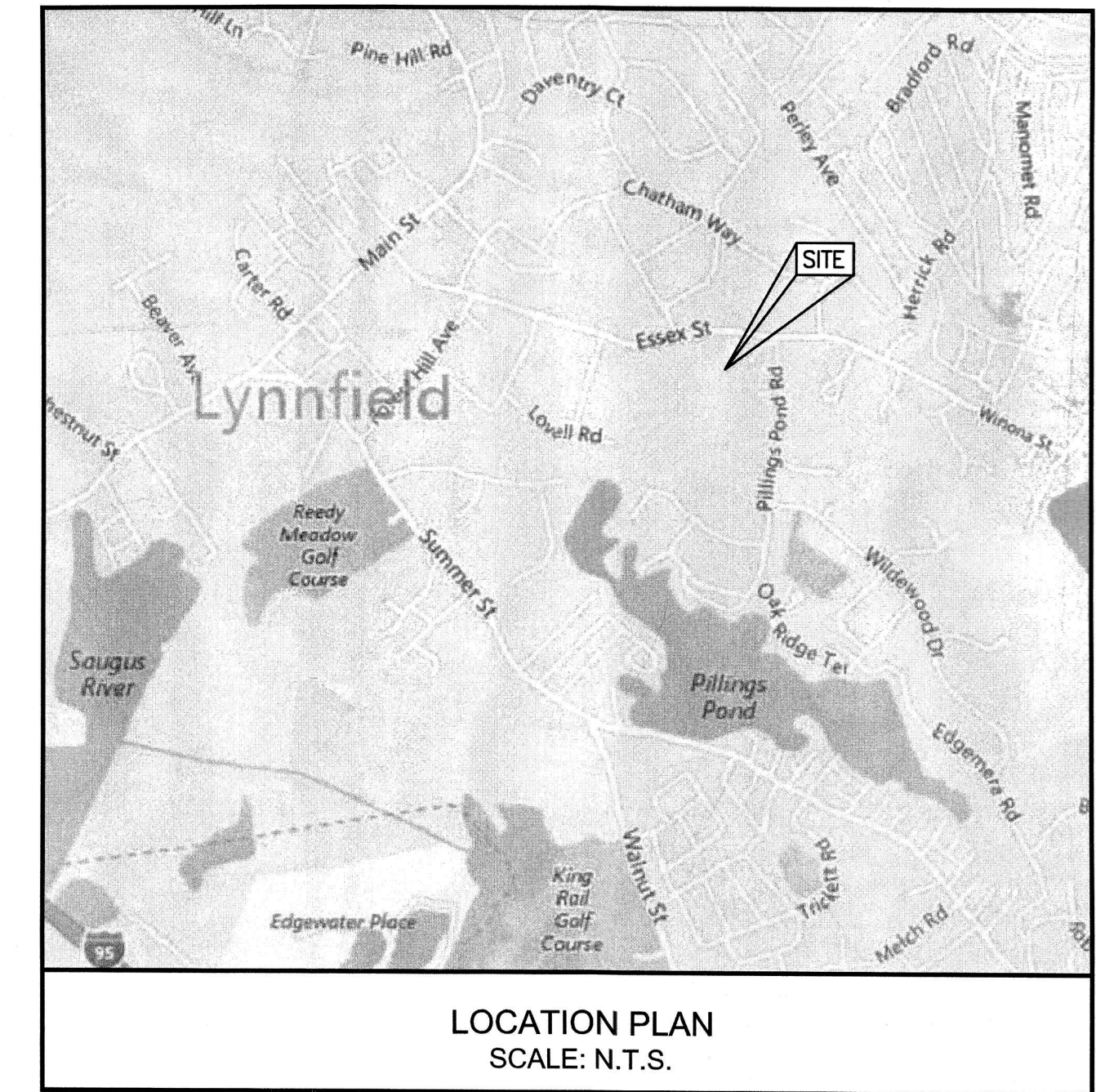


LYNNFIELD HIGH SCHOOL TENNIS RECONSTRUCTION PROJECT LYNNFIELD, MA

PREPARED FOR:
TOWN OF LYNNFIELD
55 SUMMER STREET
LYNNFIELD, MASSACHUSETTS

ENGINEER:
GALE ASSOCIATES INC.
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DRAWING NUMBER	DRAWING DESCRIPTION
CIVIL	
G001	COVER SHEET
G002	NOTES AND LEGENDS SHEET
C001	EXISTING CONDITIONS
C002	DEMOLITION AND EROSION CONTROL PLAN
C101	SITE PLAN
C102	GRADING AND DRAINAGE PLAN
C501	DETAIL SHEET 1 OF 4
C502	DETAIL SHEET 2 OF 4
C503	DETAIL SHEET 3 OF 4
C504	DETAIL SHEET 4 OF 4
EWS	EXISTING WATERSHED PLAN
PWS	PROPOSED WATERSHED PLAN



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LHS Tennis Court Reconstruction Project
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 Gale Associates
 Revised 6/26/18

PROJECT
 TENNIS COURT RECONSTRUCTION
 LYNNFIELD HIGH SCHOOL
 275 ESSEX STREET
 LYNNFIELD, MA

OWNER
 TOWN OF LYNNFIELD
 55 SUMMER STREET
 LYNNFIELD, MA

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_G001_HS
DESIGNED BY	MJL
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	

GRAPHIC SCALE

SHEET TITLE

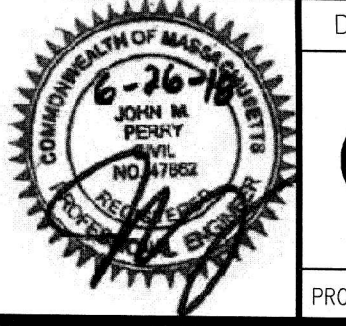
COVER SHEET

DRAWING NO.

G001

PROJECT NO. 716034

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FINAL LHS TENNIS CT

DEMOLITION NOTES:

- DEMOLITION TO COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- THE OWNER MAY OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREAS. CONDUCT SELECTIVE DEMOLITION SO THAT OWNERS'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOT LESS THAN 72 HOURS NOTICE TO OWNER OF ACTIVITIES (IF ANY) THAT MAY AFFECT THEIR OPERATIONS.
- SURVEY THE CONDITION OF THE SITE TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN UNDESIRABLE DAMAGE OF ANY PORTION OF ADJACENT FACILITIES DURING SELECTIVE DEMOLITION.
- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
- CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, PARKING LOTS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
- CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS, FACILITIES, AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
- USE WATER MIST AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS.
- REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
- DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. CONTRACTOR TO BE RESPONSIBLE FOR ANY CUTTING AND PATCHING THAT IS REQUIRED.
- PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
- DO NOT BURN DEMOLISHED MATERIALS.
- TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM, IF NOT DESIGNATED TO BE SALVAGED BY THE OWNER OR REUSED.
- IN AREAS WHERE BITUMINOUS CONCRETE IS TO BE REMOVED, THE EDGE OF ANY BITUMINOUS CONCRETE TO REMAIN MUST BE A CLEAN SAW-CUT EDGE.

EROSION CONTROL NOTES:

- IF DISTURBING MORE THAN 1 ACRE, THE CONTRACTOR SHALL FILE A NPDES CONSTRUCTION GENERAL PERMIT AS REQUIRED BY THE EPA AT LEAST 14 DAYS PRIOR TO GROUND-BREAKING. NPDES PERMIT AND PLANS SHALL BE KEPT ON SITE FOR REVIEW AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE REGULATIONS AND ALL TOWN REGULATIONS AND PERMIT CONDITIONS.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED SILTATION FENCES TO PREVENT AND/OR CONTROL SILTATION AND EROSION. OTHERWISE SPOIL MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND DISPOSED OF LEGALLY AND IN CONFORMANCE TO ALL TOWN REGULATIONS.
- ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE AFTER EACH RAINFALL EVENT AND BEFORE FORECASTED RAIN.
- ALL SEDIMENTS MUST BE REMOVED PRIOR TO REACHING THE EXISTING DRAINAGE SYSTEMS AND/OR ANY ENVIRONMENTAL RESOURCE AREAS.
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE OWNER TO MITIGATE ANY EMERGENCY CONDITION.
- THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OUTSIDE OF CONSTRUCTION AREA MUST BE REMOVED IMMEDIATELY.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH D.E.Q.E.'S (DEP) EROSION AND SEDIMENTATION CONTROL GUIDELINES, AUGUST 1983, THE U.S.D.A. S.C.S. EROSION AND SEDIMENT CONTROL IN SITE DEVELOPMENT, MASSACHUSETTS CONSERVATION GUIDE, SEPTEMBER 1983 AND ALL LOCAL MUNICIPAL REGULATIONS.
- EROSION CONTROL DEVICES MAY BE ADDED OR REDUCED IN THE FIELD AS DIRECTED BY THE OWNER/ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES WHICH MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO, EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, POINTS, SOLVENTS, GREASES, FUEL AND LUBE OIL, PESTICIDES, AND SOLID WASTE MATERIALS.

GRADING NOTES

- ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- GRADING SHALL BE PERFORMED TO ALLOW WATER TO FLOW AWAY FROM BUILDING STRUCTURES, AND TO NOT ALLOW PUDDLING OF WATER ANYWHERE ON SITE.
- MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH DRAINAGE FLOW ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER.
- NEW PAVEMENT SHALL BE FLUSH AT ANY JUNCTURE WITH EXISTING PAVEMENT.
- ALL EXCAVATIONS SHOULD BE STABILIZED BY CUTTING BACK SIDE SLOPES OR USING SHORING AND BRACING AS REQUIRED. ALL EXCAVATION AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA STANDARDS AND MGL CH. 149 SECT. 129A.
- ANY DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DISCHARGE OF SILTY OR OTHERWISE "DIRTY" WATER INTO DRAINAGE SYSTEM OR ANY BODY OF WATER, WETLAND OR RESOURCE AREA SHALL NOT BE PERMITTED.

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK. ALL EXISTING CONTROL POINTS AND BENCHMARKS HAVE BEEN PROVIDED ON THE EXISTING CONDITIONS PLANS. ANY ADDITIONAL CONTROL POINTS SHALL BE ESTABLISHED AND MAINTAINED BY THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, AND CITY STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE CITY STANDARDS AND REGULATIONS FOR USE ON THIS PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY THE ENGINEER AND ANY/ALL PERMITTING AUTHORITIES.
- BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO ALL STATE, LOCAL REGULATIONS. AREA ADJACENT TO THE PROJECT SITE WILL BE IN USE DURING CONSTRUCTION AT VARIOUS TIMES. THE CONTRACTOR WILL PROVIDE ADEQUATE CONSTRUCTION FENCING DURING EACH PHASE OF THE PROJECT TO FULLY SECURE THE PROPOSED SITE SUBJECT TO OWNER APPROVAL. THE FENCING MAY NEED ADJUSTMENT AT VARIOUS TIMES WITHOUT CONTRACT MODIFICATION.
- THE GENERAL CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- DURING CONSTRUCTION, ANY INTERPRETATION OF THE SPECIFICATIONS AND ANY MATTER WHICH REQUIRES THE APPROVAL OF THE OWNER MUST BE APPROVED BY THE ENGINEER BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND/OR CONNECTION FEES REQUIRED.
- GENERAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AS APPLICABLE INCLUDING BUT NOT LIMITED TO ELECTRICAL, LIGHTING, AND GAS. THE CONTRACTOR ACKNOWLEDGES THAT ANOTHER CONTRACTOR WILL BE UNDER A SEPARATE CONTRACT. THE CONTRACTOR WILL COORDINATE HIS EFFORTS IN GOOD FAITH, AND WORK IN HARMONY WITH THE OTHER CONTRACTOR. NO EXTRA WILL BE AWARDED DUE TO CONFLICTS BETWEEN CONTRACTORS.
- SUBSTITUTIONS AND APPROVAL OF "OR-EQUAL" PRODUCTS IN PLACE OF THOSE SPECIFIED WILL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER OR ENGINEER.

GENERAL UTILITY NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORD PLANS AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH SHALL BE IN ACCORDANCE WITH ALL PROVISIONS OF OSHA PART 1926, SUBPART P - EXCAVATIONS, TRENCHES AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND NECESSARY TRENCH SAFETY PLANS TO THE ENGINEER AND CITY FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION.
- ALL DRAIN, WATER AND SANITARY SEWER PIPES INSTALLED WITHIN 10 FEET OF THE BUILDING (BY OTHERS) MUST BE PERMITTED AND INSTALLED BY A MASSACHUSETTS LICENSED PLUMBER.
- CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADJUST ALL UTILITY CASTINGS TO BE FLUSH WITH PROPOSED GRADE UNLESS OTHERWISE INDICATED ON PLAN.
- THE CONTRACTOR SHALL FIELD COORDINATE WITH THE ELECTRICAL ENGINEER TO DETERMINE EXACT POINT OF SERVICE CONNECTION. REFER TO THE SITE ELECTRICAL DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
- CONTRACTOR SHALL PARGE LIFTING HOLES ON ALL CONCRETE STRUCTURES.

LANDSCAPING NOTES:

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED.
- ALL TREES MUST BE STRAIGHT-TRUNKED AND FULL-HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- ALL SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH HARDWOOD MULCH TO A MINIMUM DEPTH OF FOUR INCHES.

EXISTING CONDITIONS LEGEND

- BIT. PAVEMENT
- CHAIN LINK FENCE
- WOOD GUARD RAIL
- GAS LINE
- WETLAND LINE
- 25' BUFFER LINE
- 100' BUFFER LINE
- TREE LINE
- LIGHT POLE
- TREE
- MONITORING WELL
- WETLAND FLAG

SITE PLAN LEGEND

- EDGE BIT. CONCRETE PAVEMENT
- EDGE BIT. CONCRETE TENNIS PAVEMENT
- 10' CHAIN LINK FENCE
- PROPOSED CONTOUR
- PERFORATED HDPE PIPE IN STONE
- PROPOSED SPOT GRADE
- TENNIS PAVEMENT
- CRUSHED STONE
- PERVIOUS PAVEMENT

DEMOLITION LEGEND

- APPROXIMATE LIMITS OF WORK/TEMP. CONSTRUCTION C.L.F.
- STABILIZED CONSTRUCTION ENTRANCE
- REMOVE EXISTING GRASS, CLAY OR STONE AND FULL DEPTH OF TOPSOIL AND PREPARE SUBBASE FOR PROPOSED CONDITIONS.
- LIMITS OF EXISTING BITUMINOUS CONCRETE PAVEMENT TO BE PULVERIZED AND RECLAIMED REPLACED PER PLAN
- STRUCTURE, UTILITY, OR SITE FEATURE TO BE REMOVED AND DISPOSED OF.
- FENCING, CURBING, STONE OR DRAINAGE PIPES TO BE REMOVED AND DISPOSED OF.
- APPROXIMATE LIMITS OF SILT-SOC. LIMIT OF WORK
- STRUCTURE, UTILITY, OR SITE FEATURE TO REMAIN AND BE PROTECTED. CATCH BASINS SHALL BE FITTED WITH SILT SACKS
- NEW TREE LINE

ABBREVIATIONS

APPROX	APPROXIMATE
BIT	BITUMINOUS
BLDG	BUILDING
BWV	BORDERING VEGETATIVE WETLANDS
CONC	CONCRETE
DIM	DIMENSION
EOP	EDGE OF PAVEMENT
EXIST	EXISTING
FND	FOUND
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
TYP	TYPICAL
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
COND	CONDUIT
DIA	DIAMETER
DMH	DRAIN MANHOLE
EMH	ELECTRIC MANHOLE
E/T/C	ELECTRIC/TELEPHONE/CABLE
GSO	GAS SHUT OFF
HH	HANDHOLE
HYD	HYDRANT
INVT	INVERT ELEVATION
PVC	POLYVINYLCHLORIDE PIPE
PIV	POST INDICATOR VALVE
RCP	REINFORCED CONCRETE PIPE
SMH	SEWER MANHOLE
UP	UTILITY POLE
WG	WATER GATE
WSO	WATER SHUT OFF
CLDI	CONCRETE LINED DUCTILE IRON
HDPE	HIGH DENSITY POLYETHYLENE
VGC	VERTICAL GRANITE CURB
TBR&D	TO BE REMOVED AND LEGALLY DEPOSED OF
TR&P	TO REMAIN AND BE PROTECTED
TR&S	TO REMOVE AND SALVAGE

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PROJECT: TENNIS COURT RECONSTRUCTION
LYNNFIELD HIGH SCHOOL
275 ESSEX STREET
LYNNFIELD, MA
OWNER: TOWN OF LYNNFIELD
55 SUMMER STREET
LYNNFIELD, MA

REVISIONS

NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

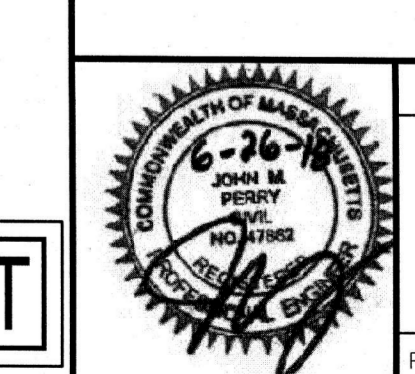
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DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	

SHEET TITLE: NOTES AND LEGENDS SHEET

DRAWING NO. G002

PROJECT NO. 716034

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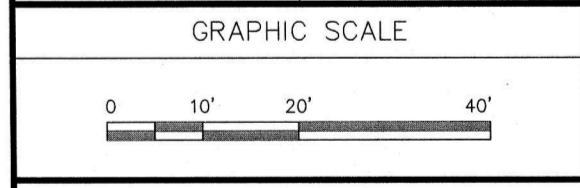
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PROJECT
TENNIS COURT RECONSTRUCTION
 LYNNFIELD HIGH SCHOOL
 275 ESSEX STREET
 LYNNFIELD, MA

OWNER
 TOWN OF LYNNFIELD
 55 SUMMER STREET
 LYNNFIELD, MA

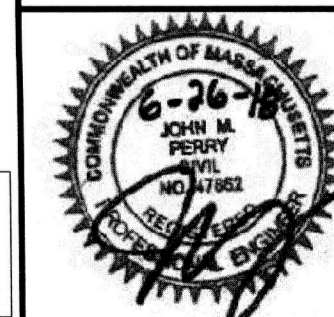
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DATE	MARCH 27, 2017
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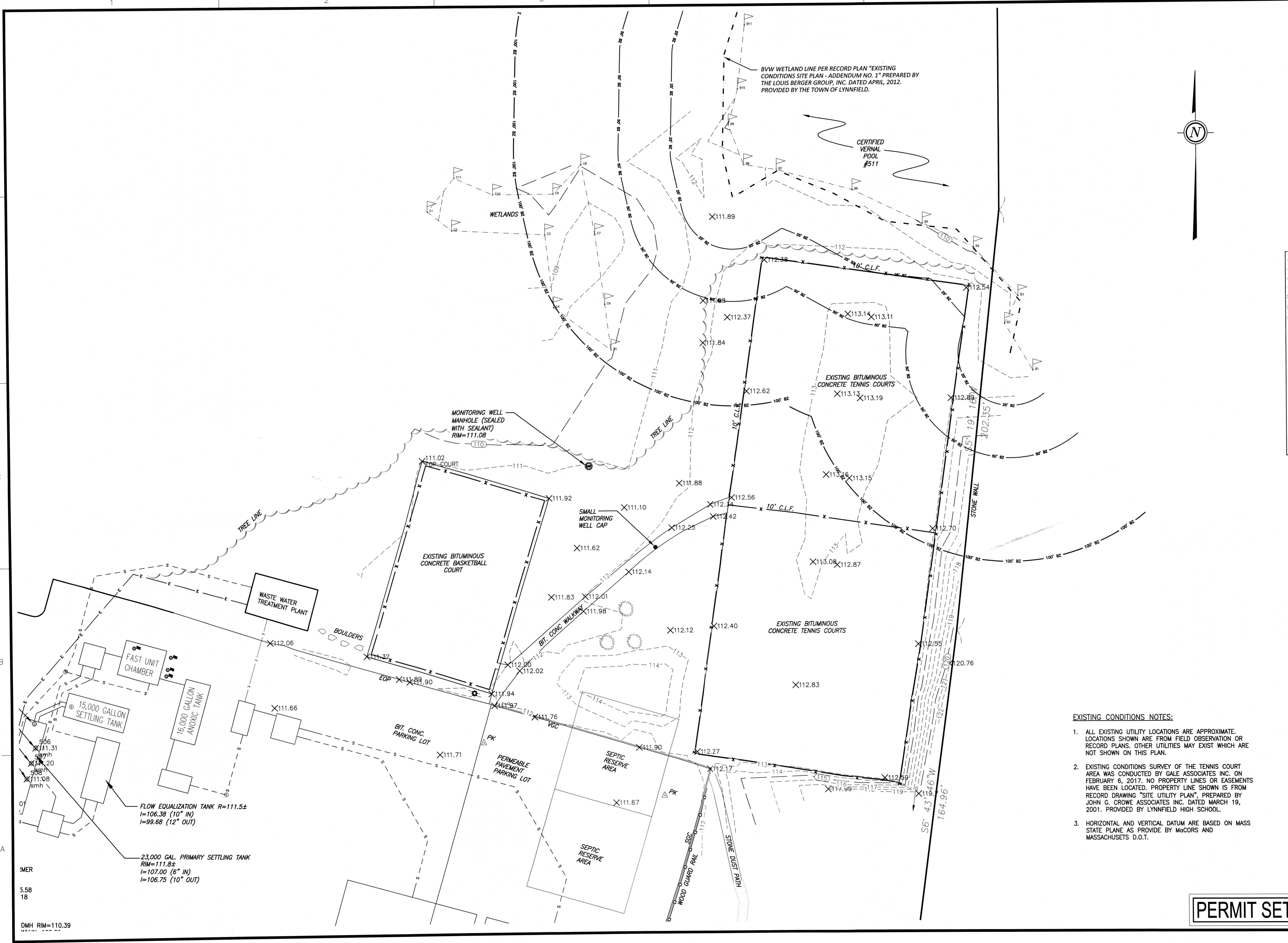


SHEET TITLE
EXISTING CONDITIONS PLAN

DRAWING NO. C001	PROJECT NO. 716034
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EXISTING CONDITIONS NOTES:

- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. LOCATIONS SHOWN ARE FROM FIELD OBSERVATION OR RECORD PLANS. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THIS PLAN.
- EXISTING CONDITIONS SURVEY OF THE TENNIS COURT AREA WAS CONDUCTED BY GALE ASSOCIATES INC. ON FEBRUARY 6, 2017. NO PROPERTY LINES OR EASEMENTS HAVE BEEN LOCATED. PROPERTY LINE SHOWN IS FROM RECORD DRAWING "SITE UTILITY PLAN", PREPARED BY JOHN G. CROWE ASSOCIATES INC. DATED MARCH 19, 2001. PROVIDED BY LYNNFIELD HIGH SCHOOL.
- HORIZONTAL AND VERTICAL DATUM ARE BASED ON MASS STATE PLANE AS PROVIDED BY MGCORS AND MASSACHUSETTS D.O.T.

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DMH RIM=110.39



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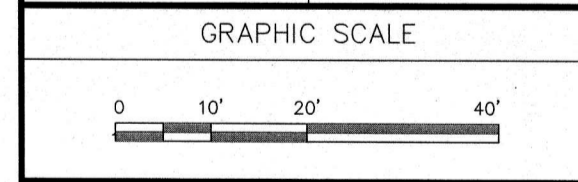
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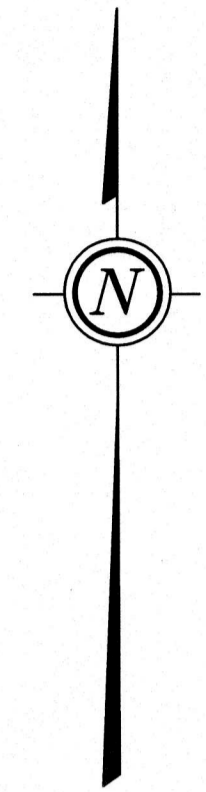
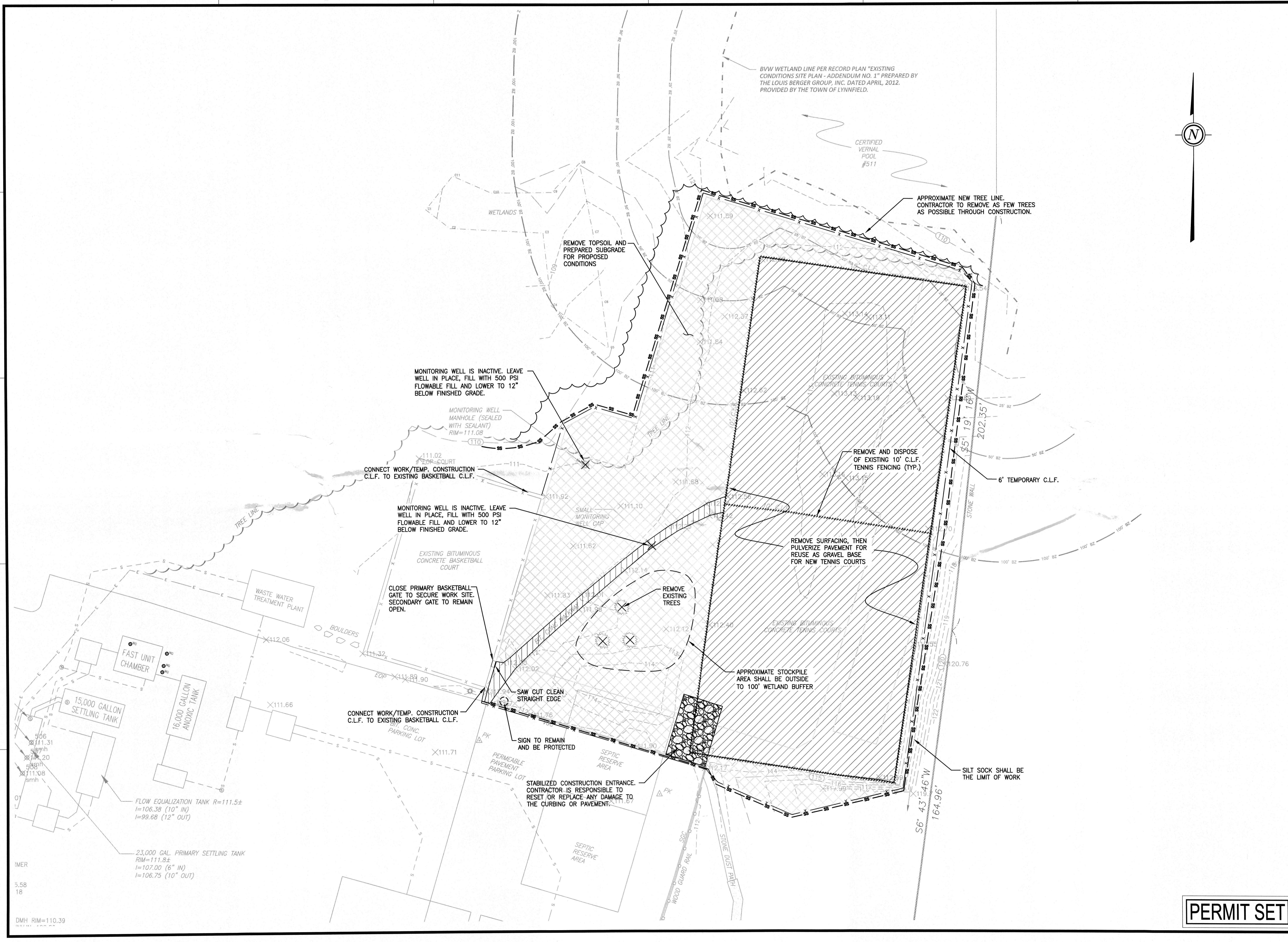


SHEET TITLE
DEMOLITION AND EROSION CONTROL PLAN

DRAWING NO.
C002

PROJECT NO. 716034

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TENNIS COURT RECONSTRUCTION
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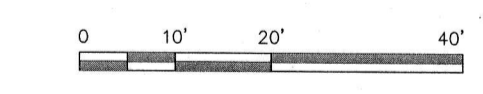
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DATE	MARCH 27, 2017
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GRAPHIC SCALE



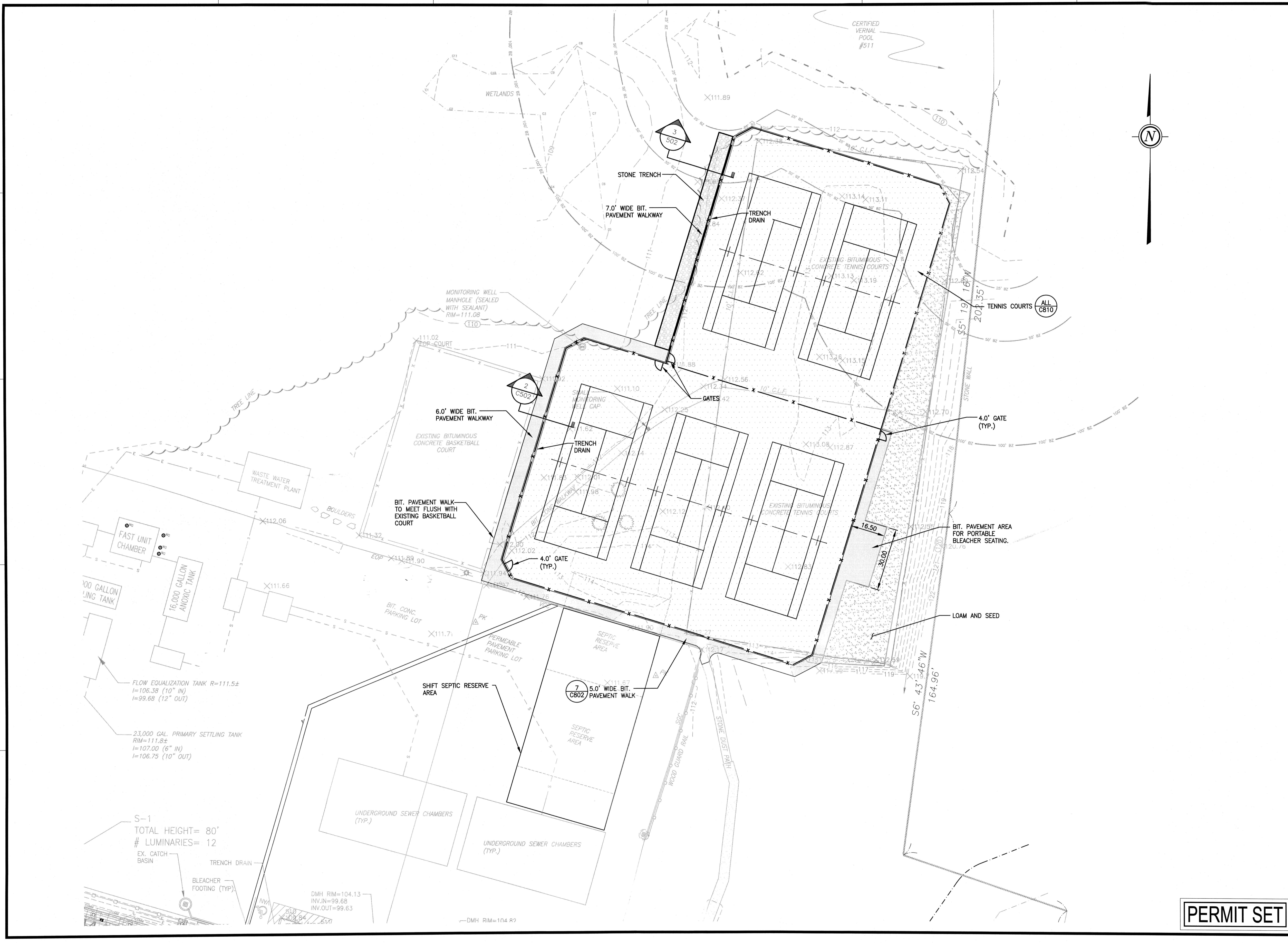
SHEET TITLE

LAYOUT AND MATERIALS PLAN

DRAWING NO. **C101**

PROJECT NO. 716034

PERMIT SET

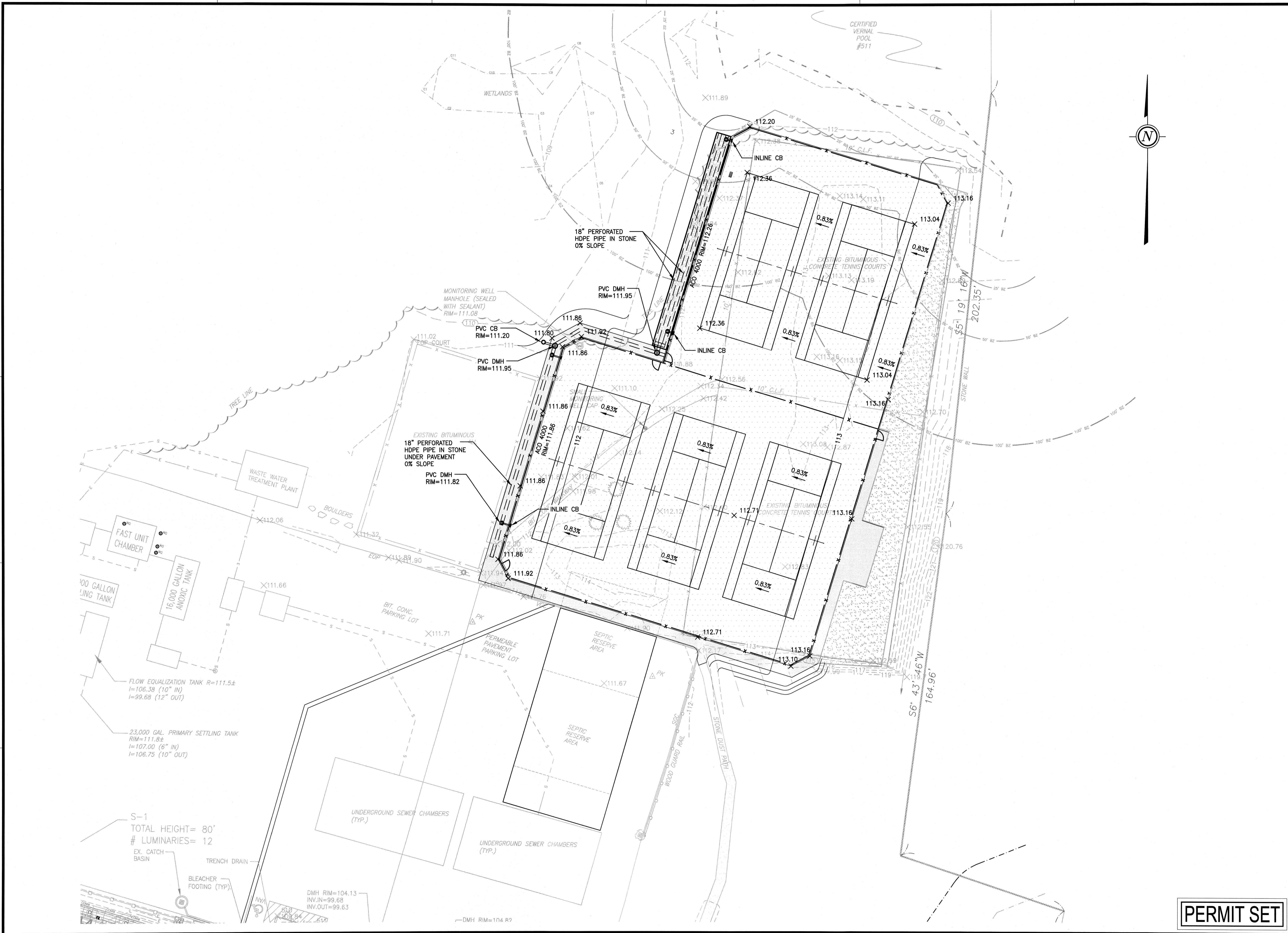
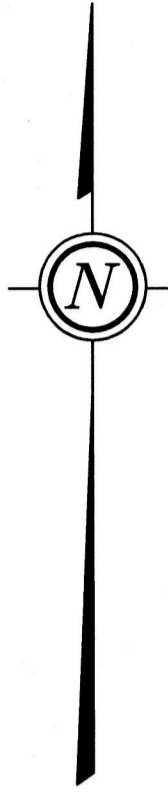


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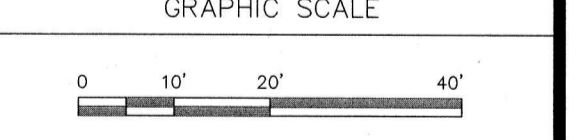


PROJECT
TENNIS COURT RECONSTRUCTION
 LYNNFIELD HIGH SCHOOL
 275 ESSEX STREET
 LYNNFIELD, MA

OWNER
 TOWN OF LYNNFIELD
 55 SUMMER STREET
 LYNNFIELD, MA

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

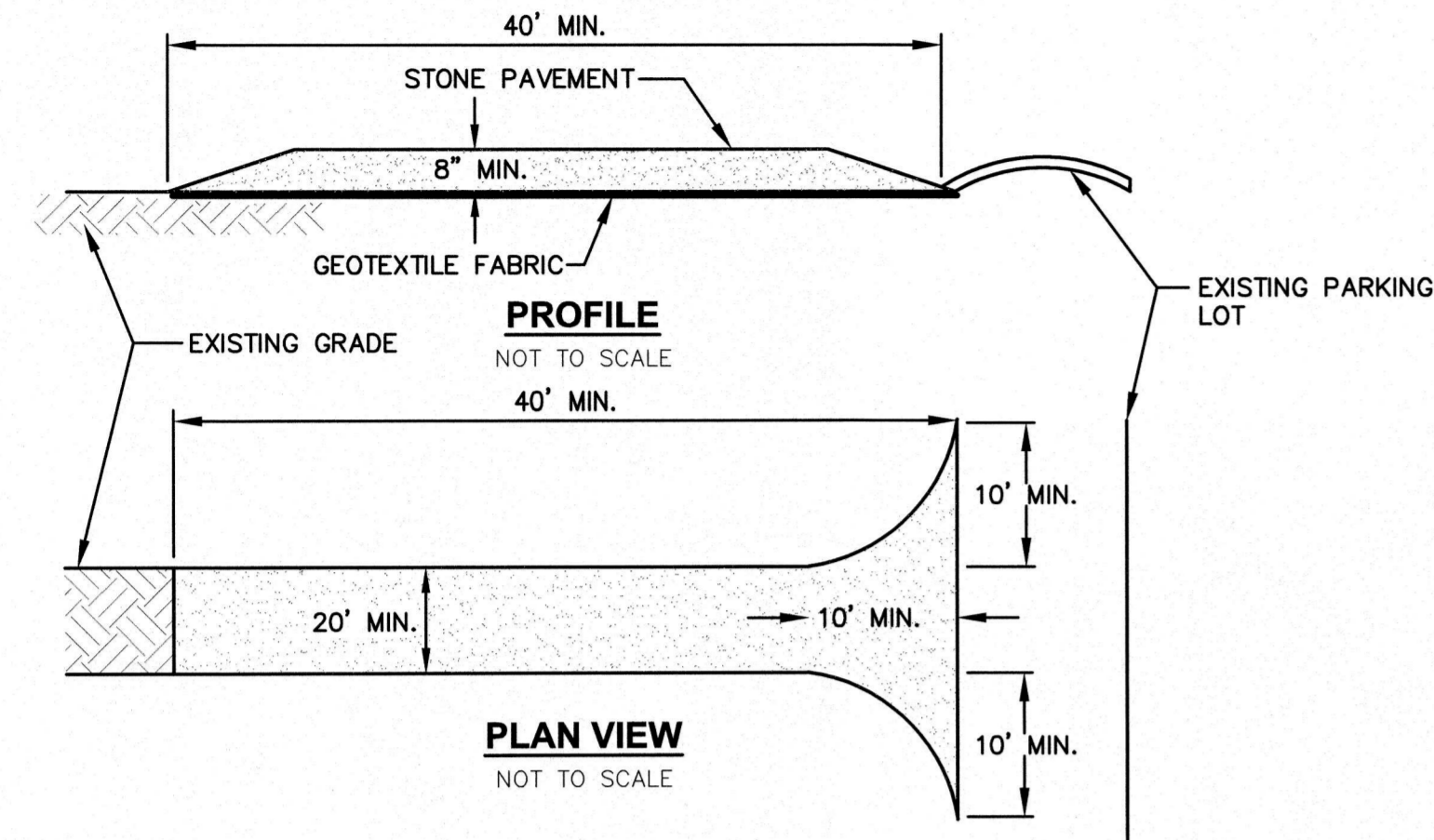
CADD FILE	716034_C102
DESIGNED BY	MJL
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	1"=20'



SHEET TITLE
GRADING AND DRAINING PLAN

	DRAWING NO.
	C102
PROJECT NO. 716034	

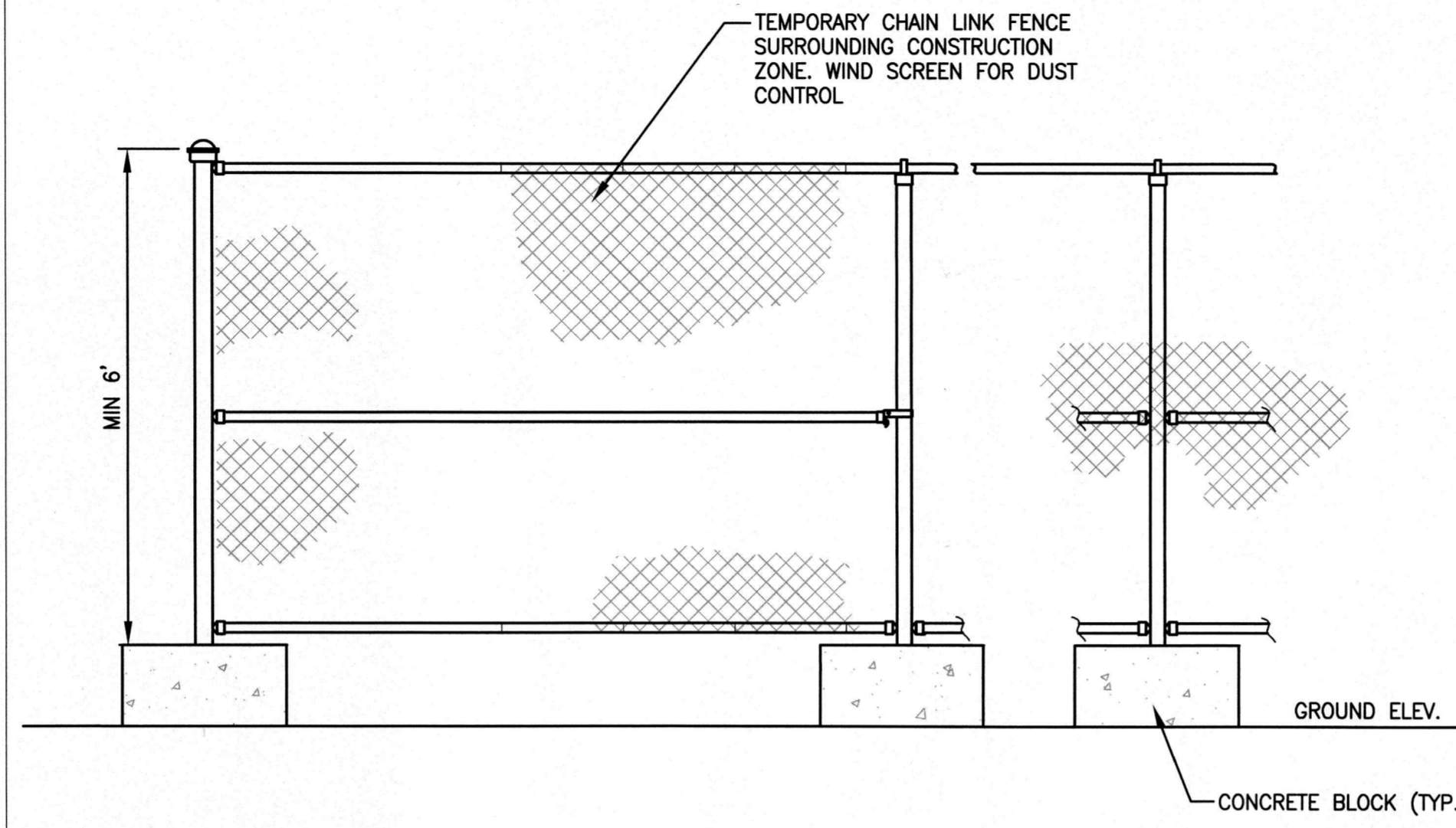
PERMIT SET



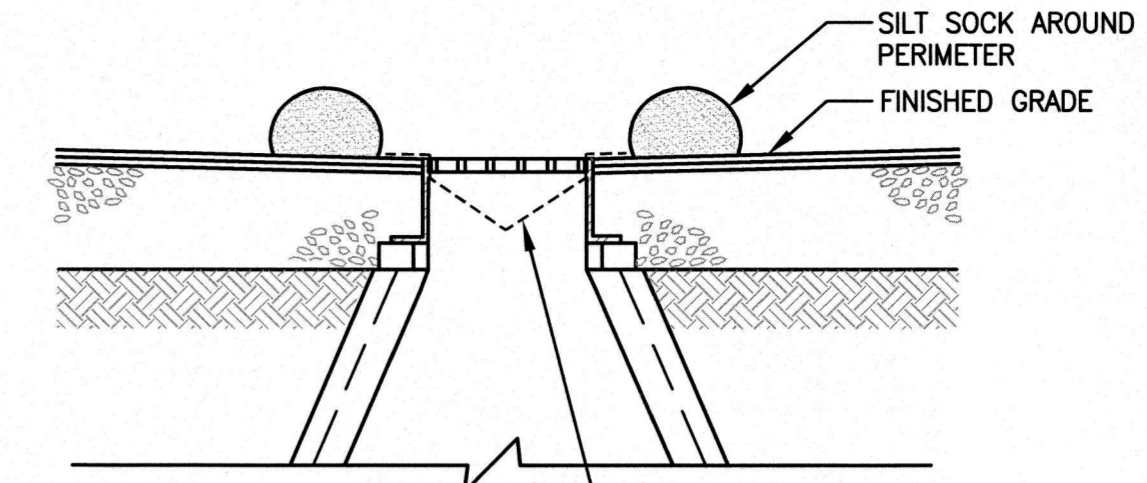
NOTES:

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 40 FEET.
3. THICKNESS - NOT LESS THAN (8) INCHES.
4. WIDTH - TWENTY (20) MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE FABRIC - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

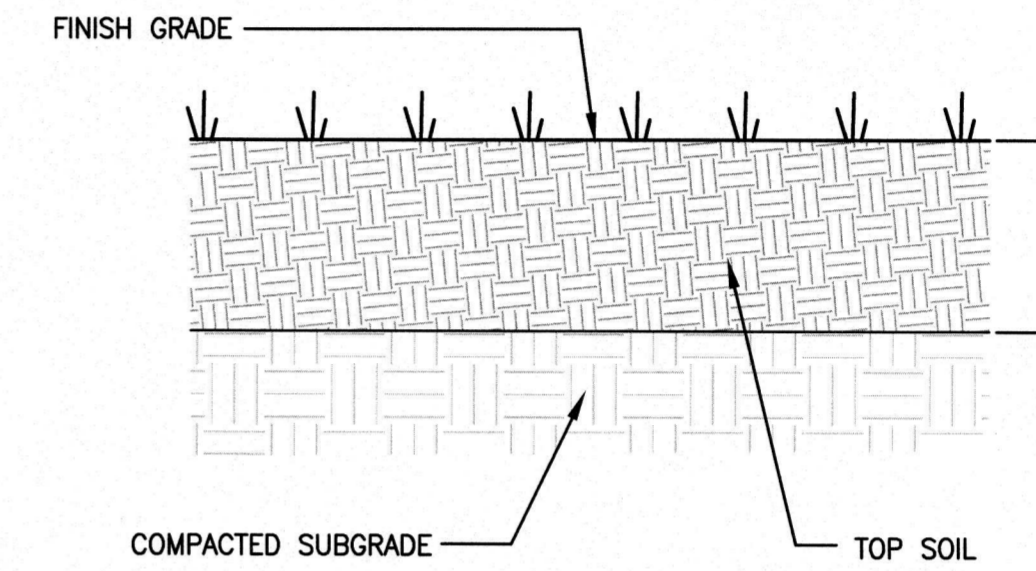


2 TEMPORARY CONSTRUCTION FENCE
N.T.S.

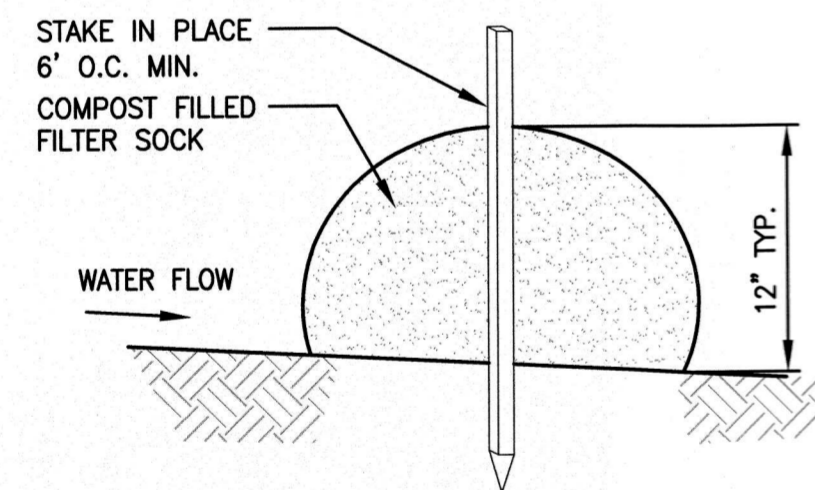


5 INLET PROTECTION
N.T.S.

DURING CONSTRUCTION, INSTALL AND MAINTAIN INLET BASKETS TO TRAP SEDIMENT IN RUNOFF. INSPECTION SHALL TAKE PLACE AFTER EACH HEAVY RAIN EVENT AND REPLACEMENT SHALL BE PER THE DIRECTION OF THE OWNER'S REPRESENTATIVE



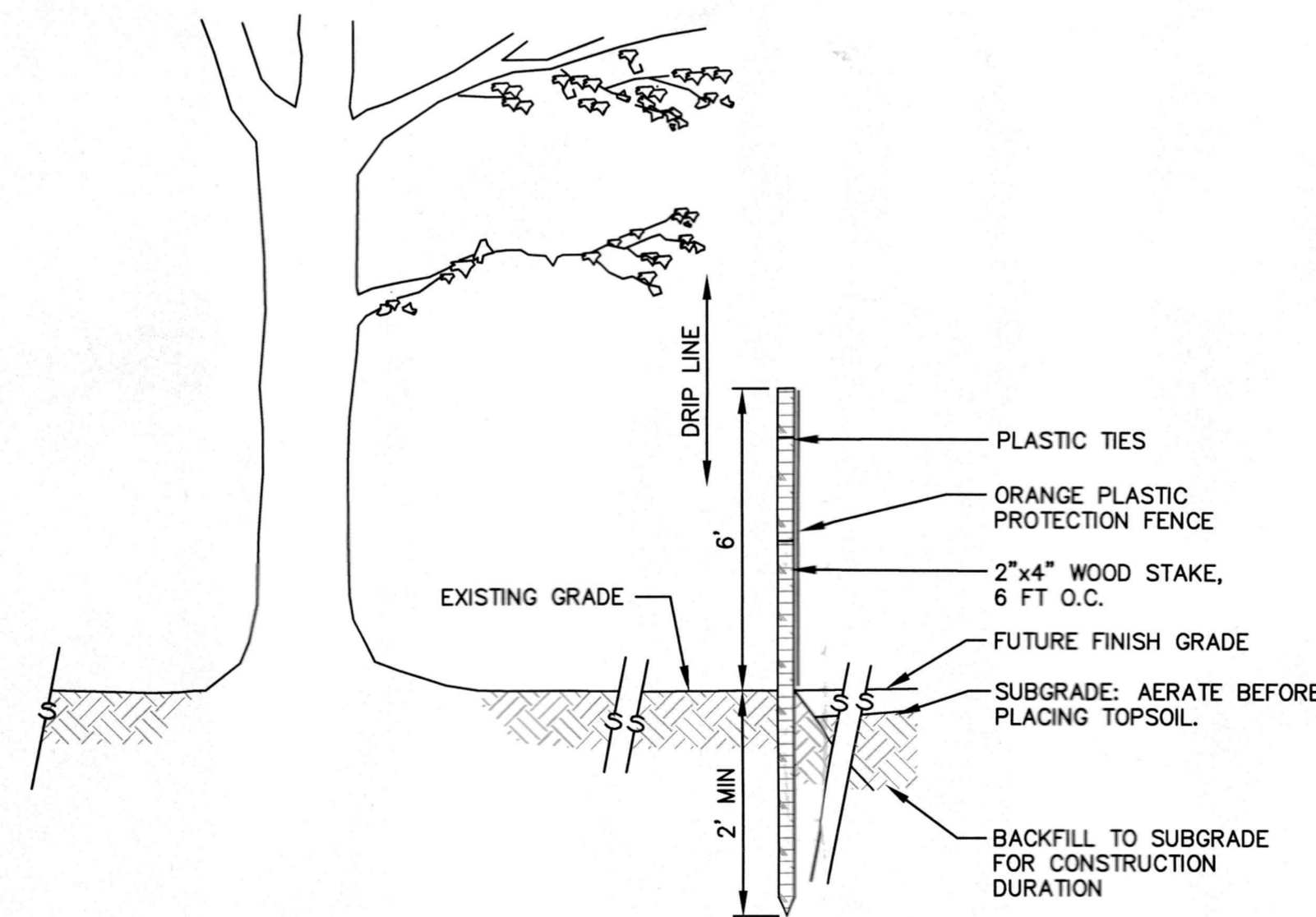
6 LOAM AND SEED (DISTURBED AREAS)
N.T.S.



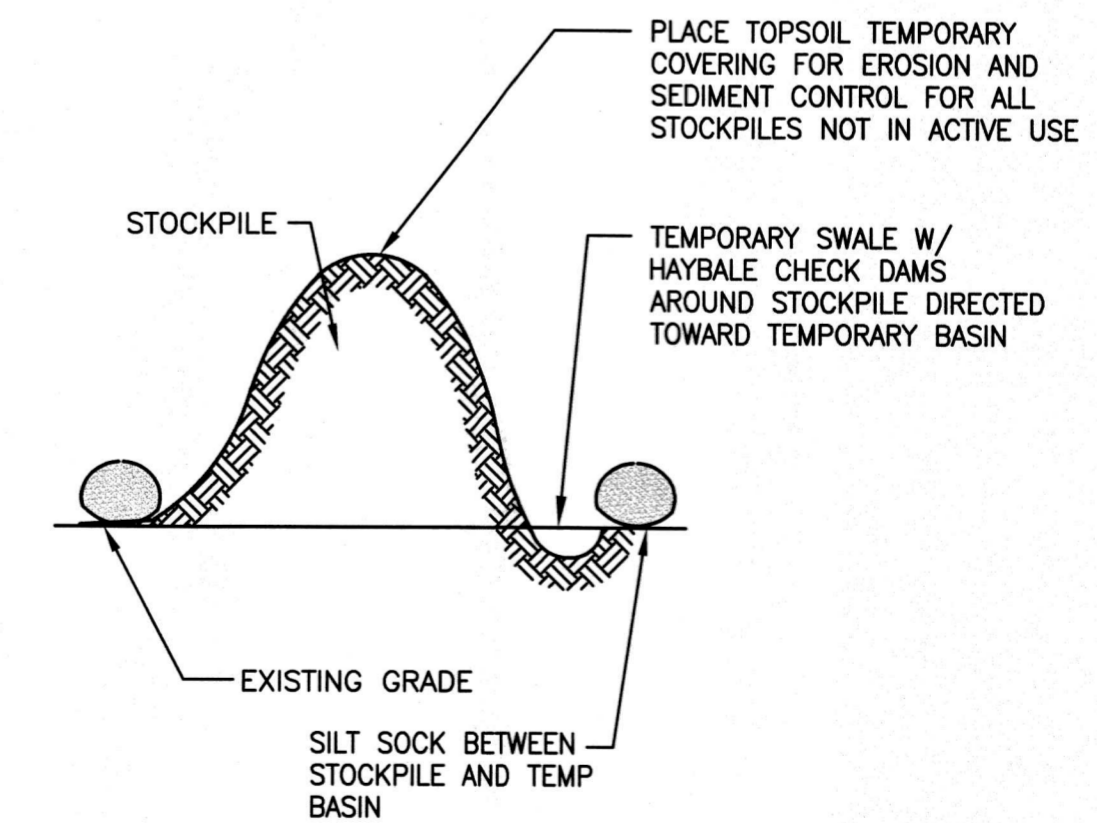
NOTES:

1. THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
2. WHERE THE BERM REQUIRES REPAIR, IT SHALL BE ROUTINELY REPAIRED.
3. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE BERM WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE ENGINEER.

3 SILT SOCK EROSION CONTROL
N.T.S.



4 TREE PROTECTION FENCE AND BACKFILL MEASURES
N.T.S.



7 MATERIAL STOCKPILE AREA
N.T.S.



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PROJECT
TENNIS COURT RECONSTRUCTION
LYNNFIELD HIGH SCHOOL
275 ESSEX STREET
LYNNFIELD, MA

OWNER
TOWN OF LYNNFIELD
55 SUMMER STREET
LYNNFIELD, MA

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_C500s-HS
DESIGNED BY	MJL
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	N.T.S.

GRAPHIC SCALE

SHEET TITLE
DETAIL SHEET
1 OF 4

DRAWING NO. **C501**

PROJECT NO. 716034

PERMIT SET

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PROJECT
TENNIS COURT RECONSTRUCTION
LYNNFIELD HIGH SCHOOL
275 ESSEX STREET
LYNNFIELD, MA

OWNER
TOWN OF LYNNFIELD
55 SUMMER STREET
LYNNFIELD, MA

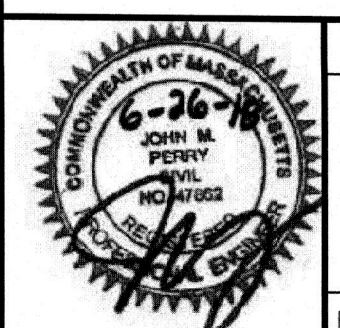
REVISIONS		
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_C500s-HS
DESIGNED BY	MJL
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	N.T.S.

GRAPHIC SCALE

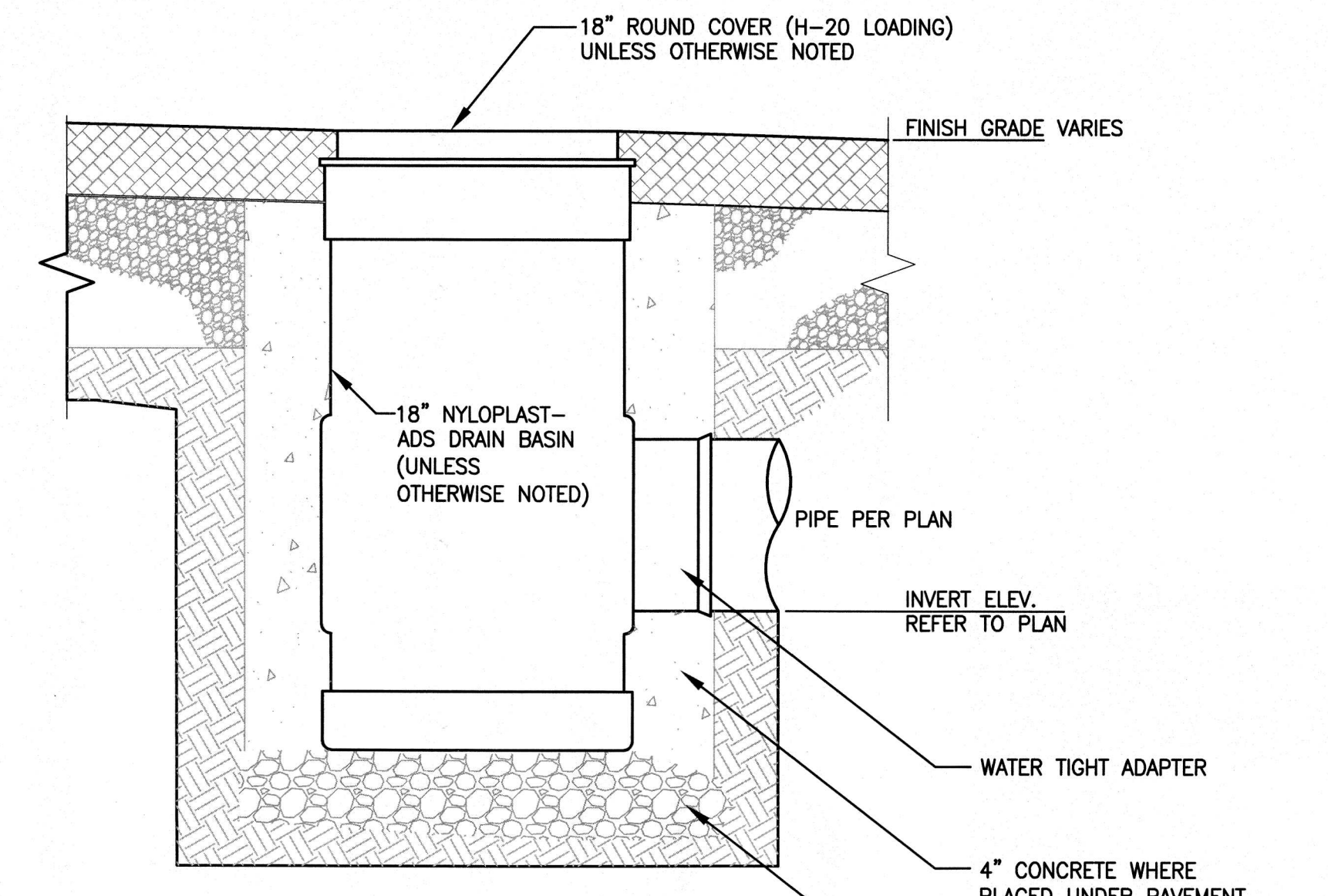
SHEET TITLE

DETAIL SHEET
2 OF 4



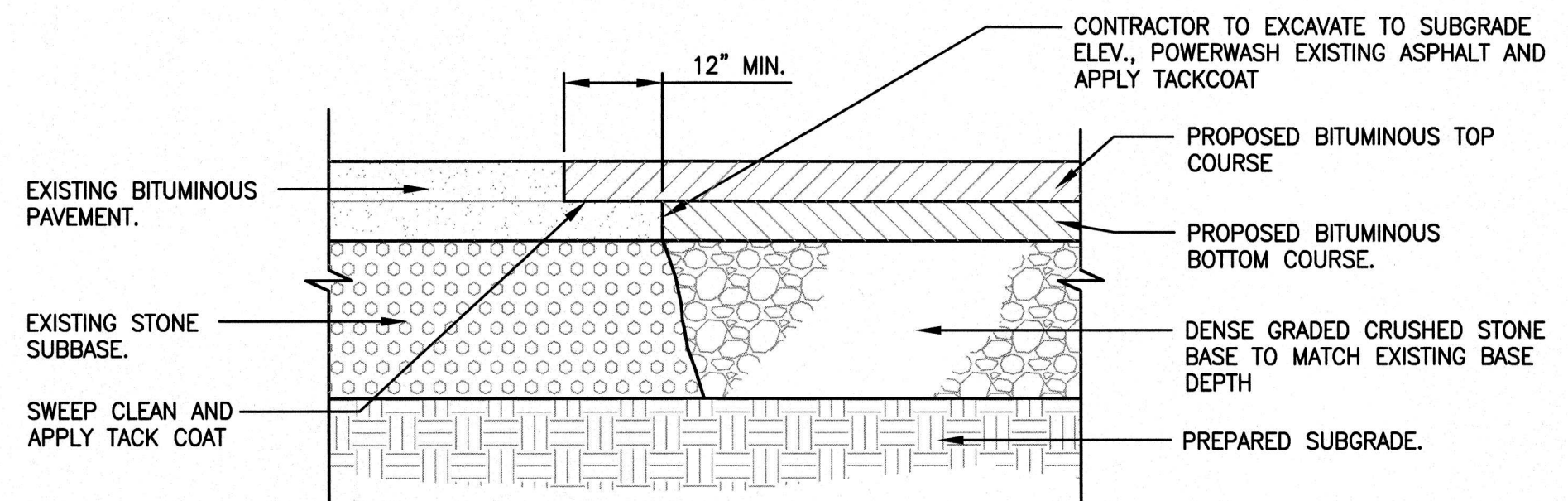
DRAWING NO.
C502
PROJECT NO. 716034

PERMIT SET

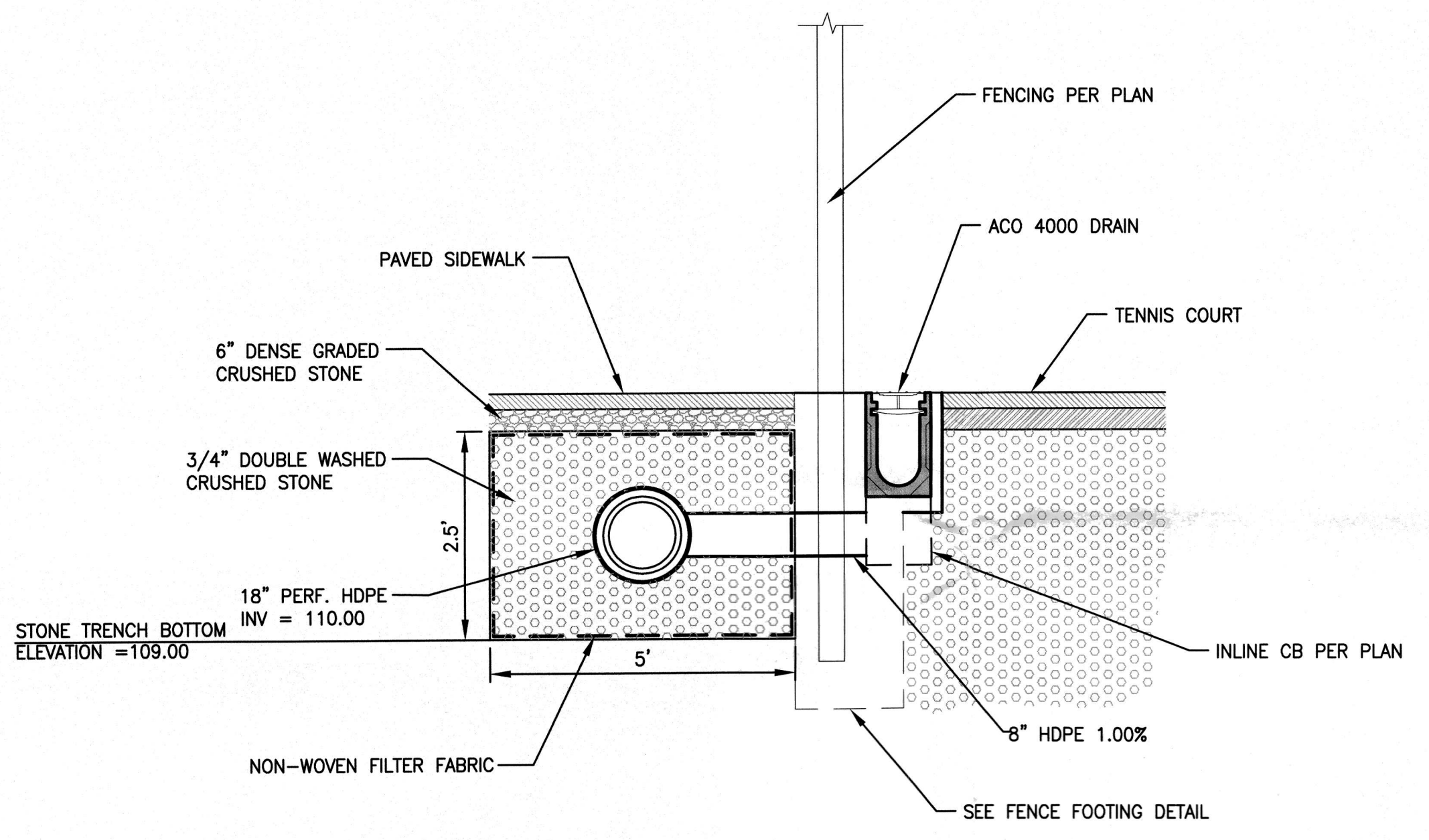


- NOTES:
- STANDARD CATCH BASIN GRATE SHALL HAVE H-25 HEAVY DUTY RATING
 - QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
 - MATERIAL: DUCTILE IRON
 - PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
 - LOCKING DEVICE: 5/16-18 ZINC GOLD HEX BOLT 1" LG USE 1/2" SOCKET TO REMOVE, 2 PLACES

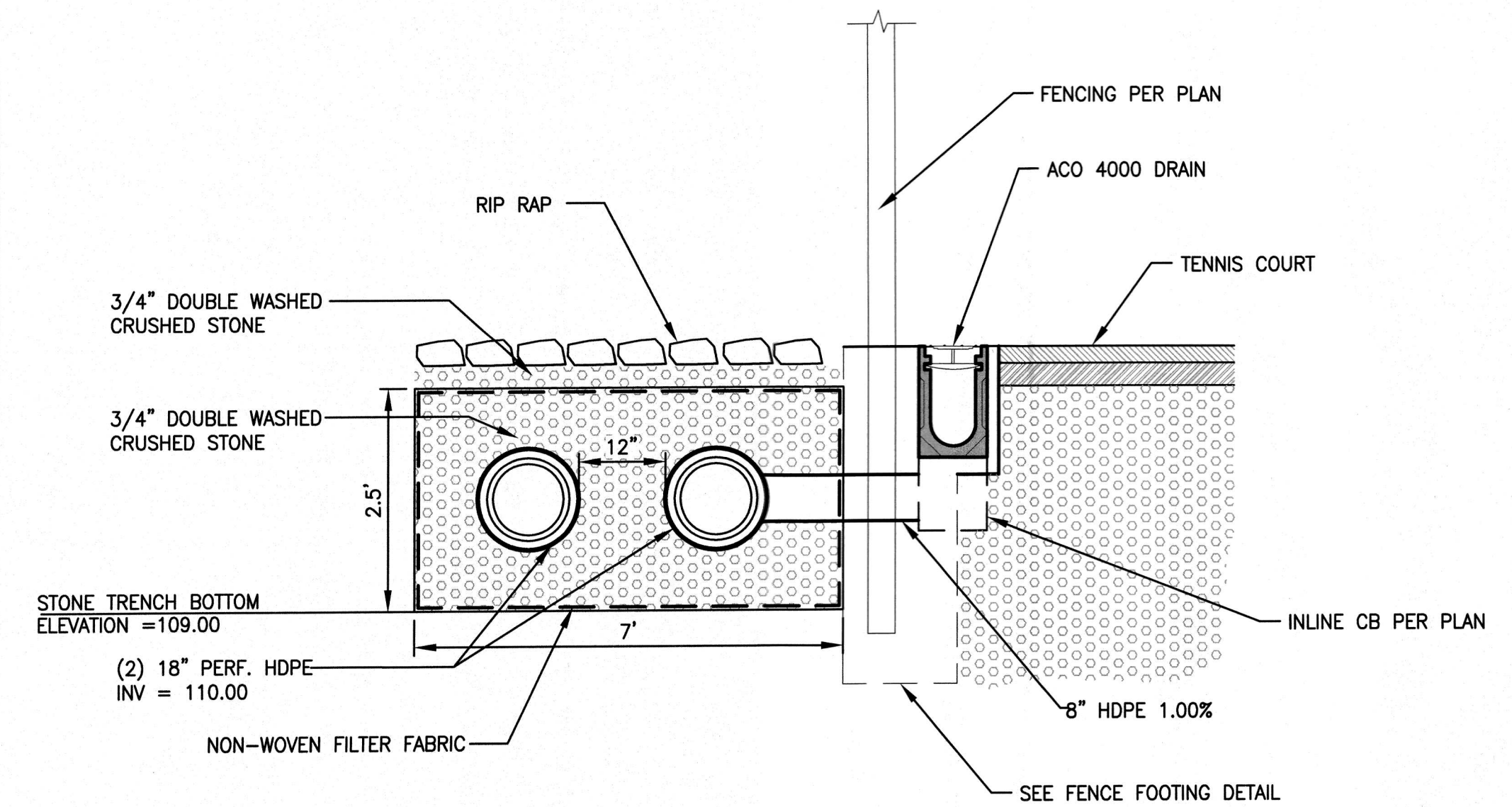
4 PVC CATCH BASIN OR DRAIN MANHOLE
N.T.S.



1 PAVEMENT JOINTING DETAIL
N.T.S.



2 STONE TRENCH DRAIN
N.T.S.



3 STONE TRENCH DRAIN W/ (2) 18" PERF. PIPES
N.T.S.

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FENCE HEIGHT NOMINAL HEIGHT	END & CORNER POSTS		LINE POSTS	
	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE
4'-0"	7'-0"	4'-0 5/8"	6'-8"	3'-8 7/8"
6'-0"	9'-0"	6'-0 5/8"	8'-8"	5'-8 7/8"
8'-0"	11'-0"	8'-0 5/8"	10'-8"	7'-8 7/8"

SINGLE OR DOUBLE LEAF GATES		
NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
ACTUAL DIM		ACTUAL DIM
4'-0"	3'-10"	3'-8 1/2"
6'-0"	5'-10"	5'-8 1/2"
8'-0"	7'-10"	7'-8 1/2"

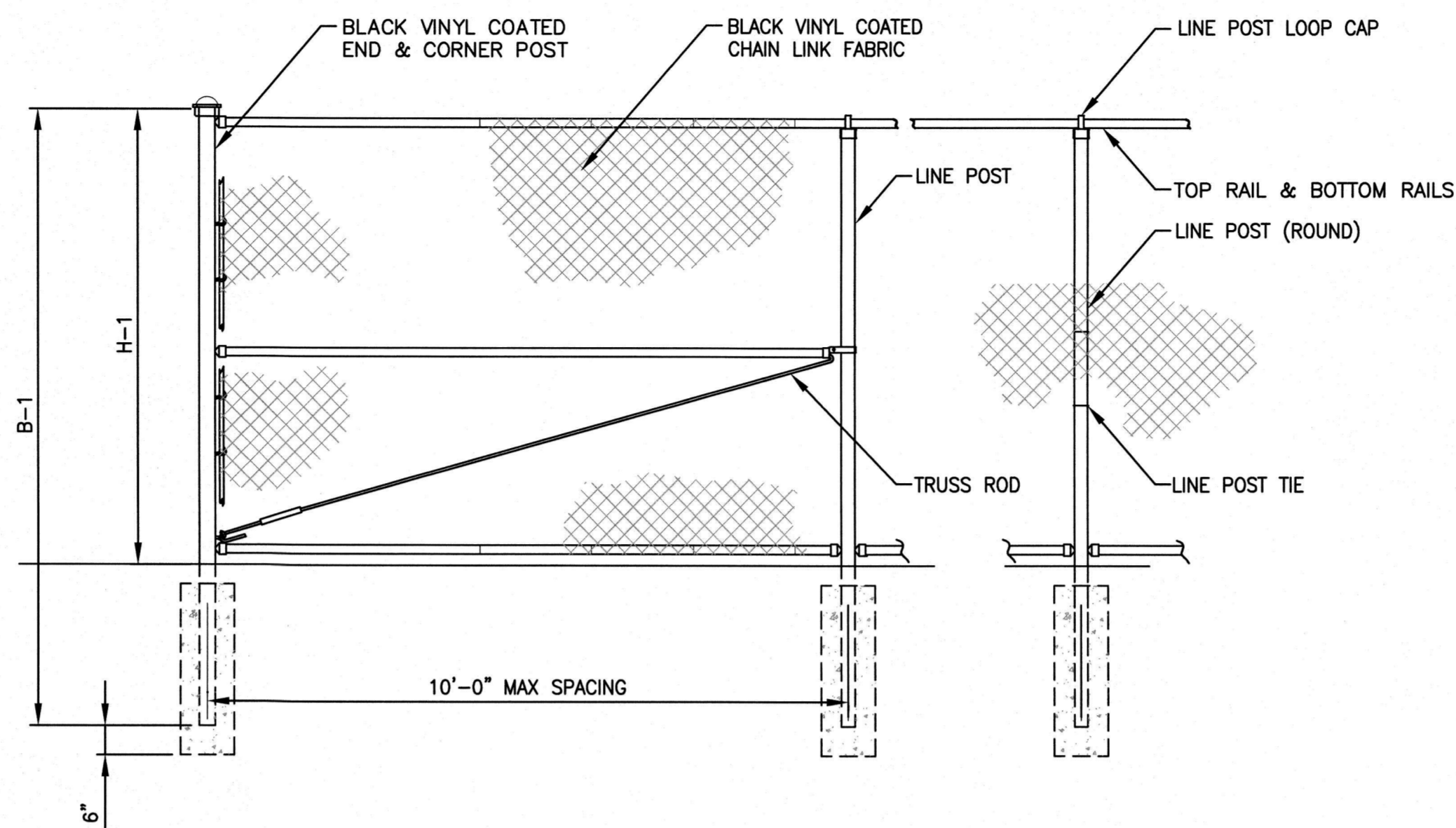
SINGLE LEAF GATES		
OPENING FACE TO FACE	GATE POSTS SQ & RND SIZES	HINGE SPACE (S) POST TO UPRIGHT
3'-0" THROUGH 6'-0"	2 1/2" OR 3" OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]

DOUBLE LEAF GATES		
OPENING FACE TO FACE	GATE POSTS SQ & RND SIZES	HINGE SPACE (S) POST TO UPRIGHT
14'-0" THROUGH 24'-0"	3" SQ OR 4" OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]

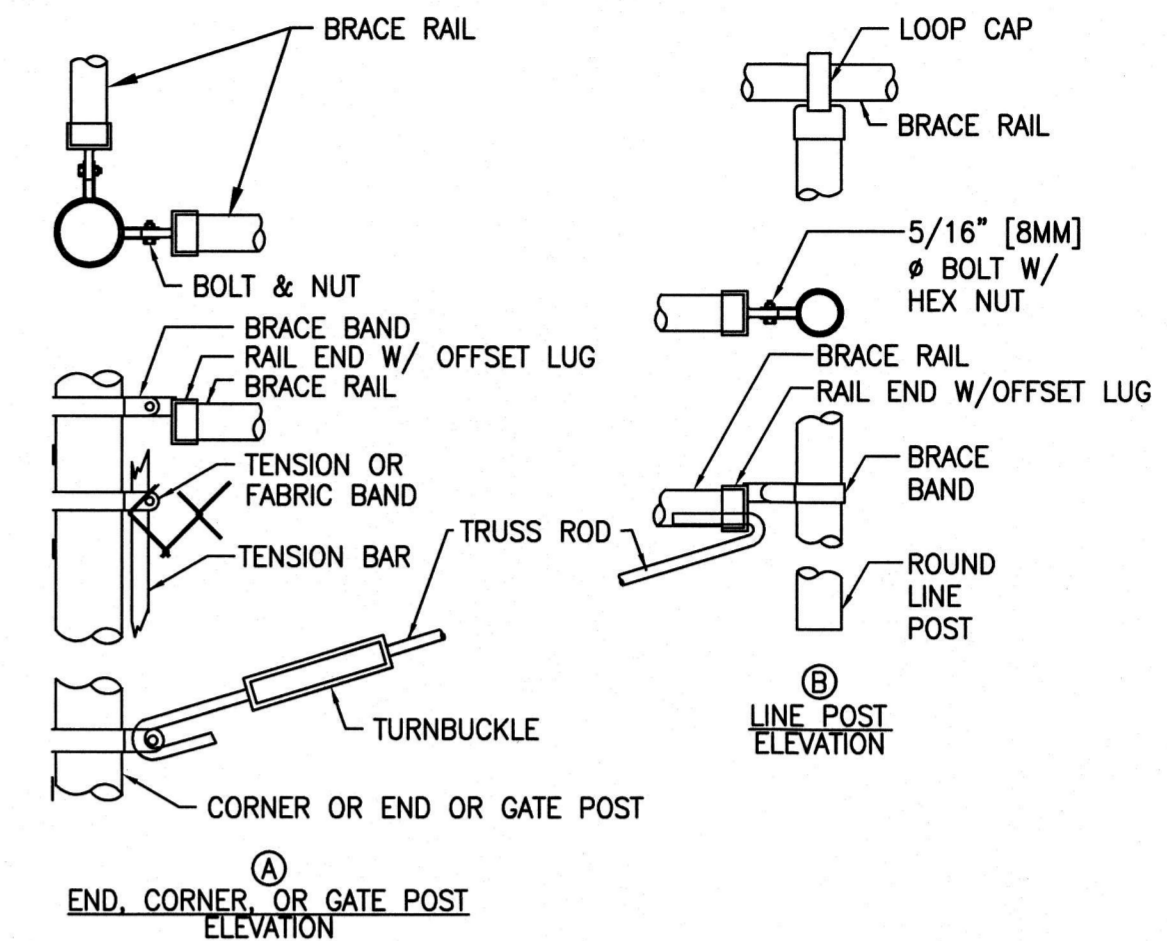
NOTES:

- ALL CHAIN LINK FENCE FABRIC SHALL BE KNUCKLED (TOP AND BOTTOM)
- ALL CHAIN LINK FENCE POSTS, FABRIC, TIES AND MATERIALS SHALL BE BLACK PVC COATED.
- CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" & WIDER. CENTER RAIL REQUIRED ON GATE LEAVE 6'-0" & HIGHER.
- CONCRETE FOOTINGS SHALL BE FOUR (4) x THE POST DIAMETER, OR AS DESIGNATED ON INDIVIDUAL DETAILS.
- ALL CHAIN LINK FABRIC SHALL BE INSTALLED ON THE FIELD SIDE OF THE FENCE.

1 CHAIN LINK FENCE AND GATE NOTES
N.T.S.



2 CHAIN LINK FENCE
N.T.S.



3 CHAIN LINK FENCE & GATE CONNECTION DETAIL
N.T.S.



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PROJECT
TENNIS COURT RECONSTRUCTION
LYNNFIELD HIGH SCHOOL
275 ESSEX STREET
LYNNFIELD, MA

OWNER
TOWN OF LYNNFIELD
55 SUMMER STREET
LYNNFIELD, MA

REVISIONS

NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_C500s-HS
DESIGNED BY	MJL
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	N.T.S.

GRAPHIC SCALE

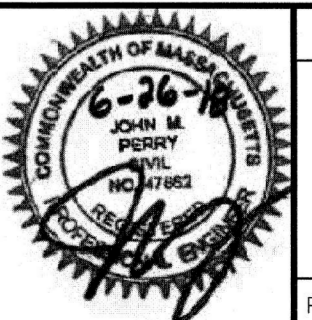
SHEET TITLE

DETAIL SHEET
3 OF 4

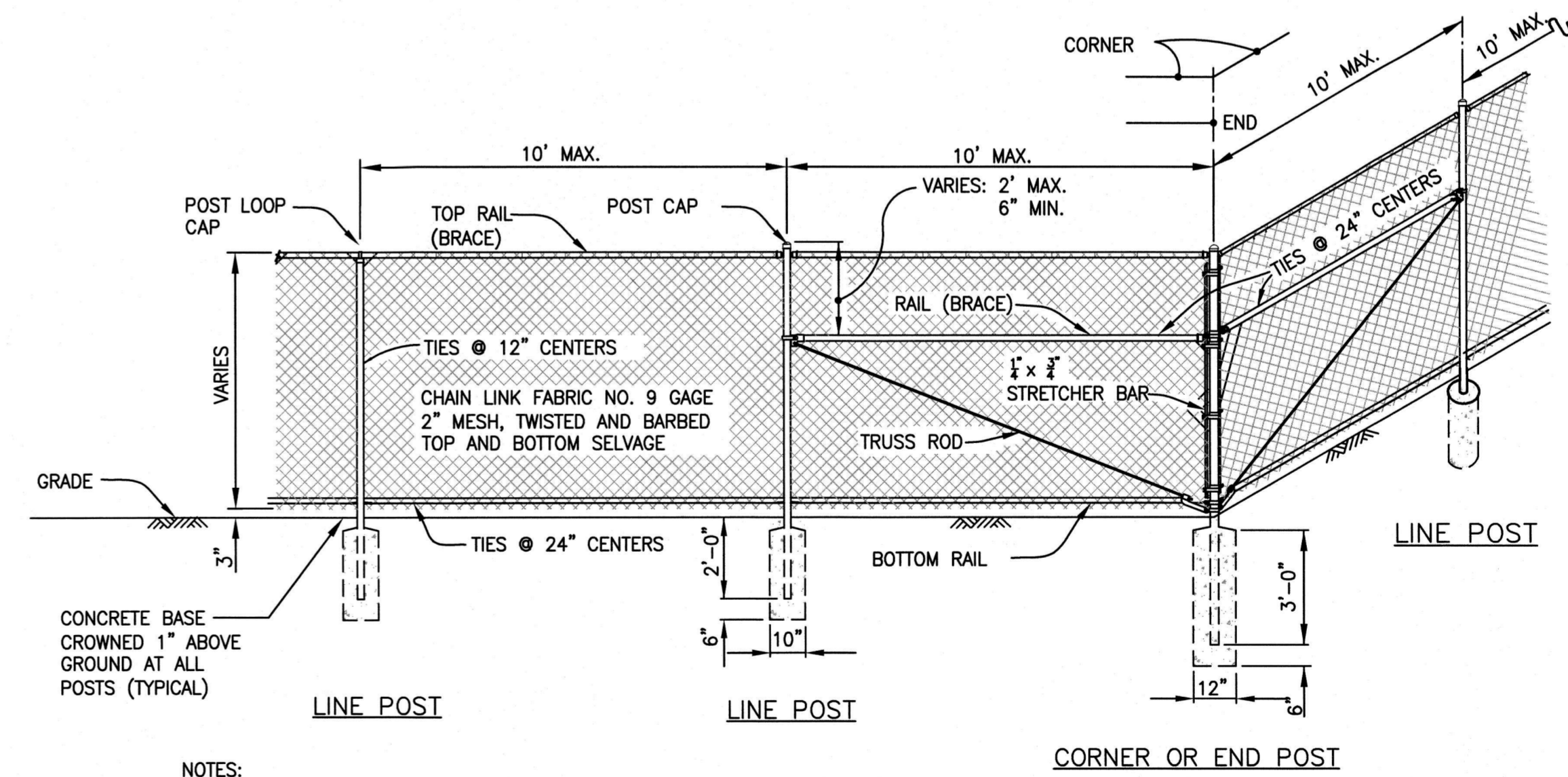
DRAWING NO.

C503

PROJECT NO. 716034



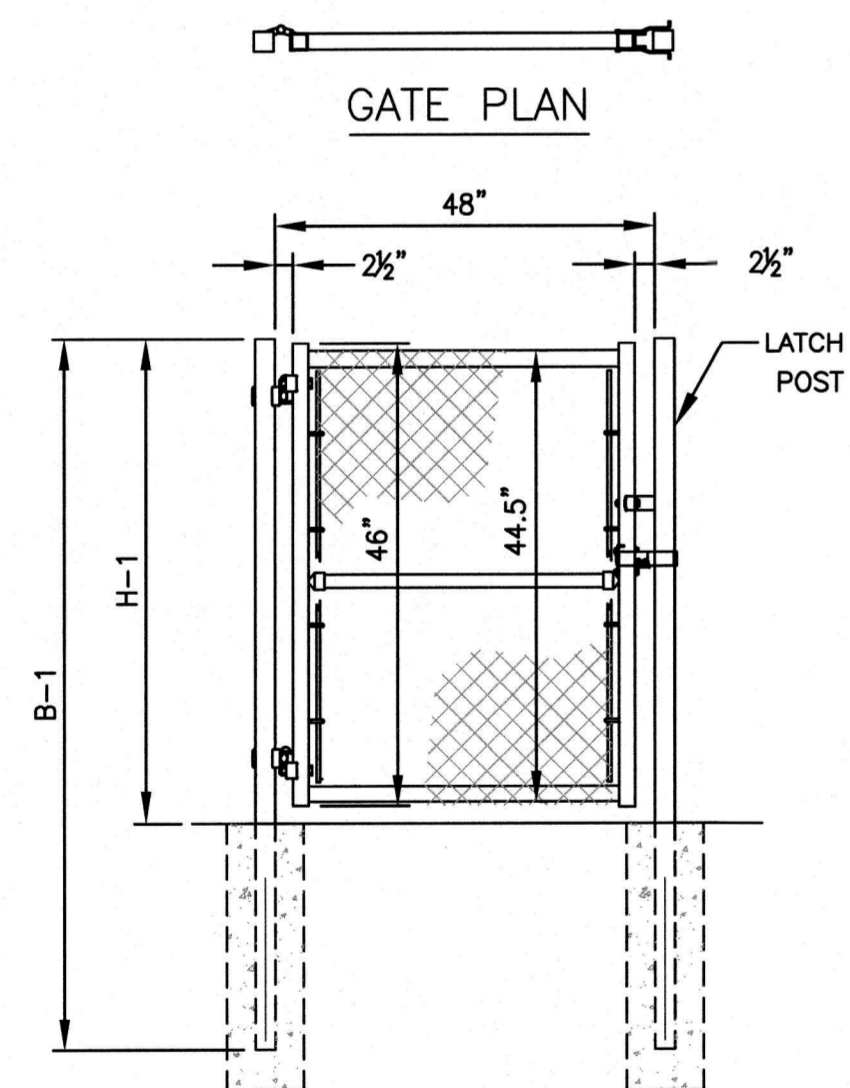
PERMIT SET



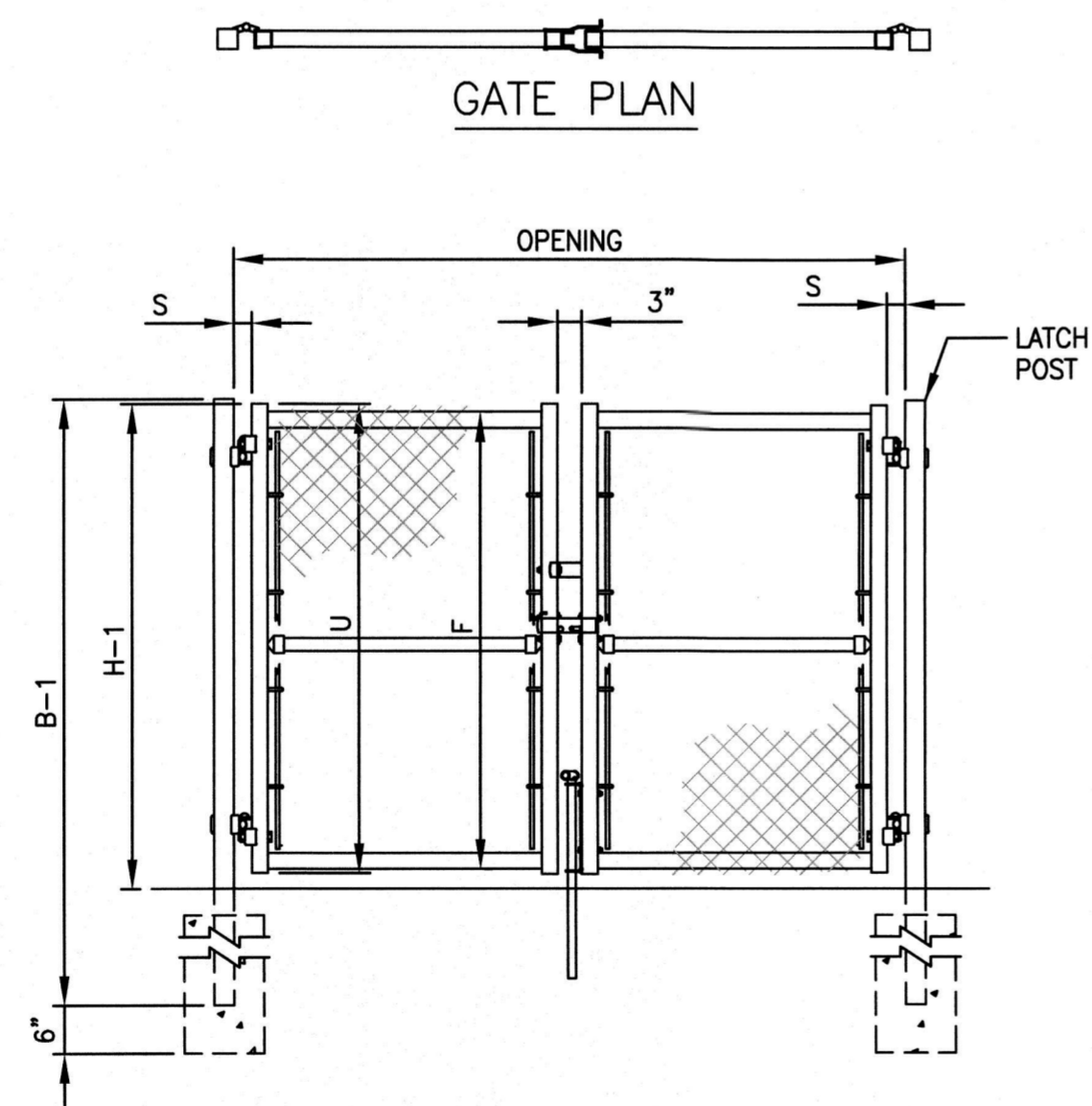
NOTES:

- ALL CHAIN LINK FENCE FABRIC SHALL BE KNUCKLED (TOP AND BOTTOM)
- ALL CHAIN LINK FENCE POSTS, FABRIC, TIES AND MATERIALS SHALL BE BLACK PVC COATED.
- CONCRETE FOOTINGS SHALL BE FOUR (4) x THE POST DIAMETER, OR AS DESIGNATED ON INDIVIDUAL DETAILS.
- HOLD TOP OF CONCRETED FOOTING 6" BELOW GRADE

6 CHAIN LINK FENCE CORNER DETAIL
N.T.S.



4 4' WIDE SINGLE LEAF GATE DETAIL
N.T.S.



5 DOUBLE GATE DETAIL
N.T.S.



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PROJECT
TENNIS COURT RECONSTRUCTION
 LYNNFIELD HIGH SCHOOL
 275 ESSEX STREET
 LYNNFIELD, MA

OWNER
 TOWN OF LYNNFIELD
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REVISIONS		
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_C500s-HS
DESIGNED BY	M.J.L.
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	N.T.S.

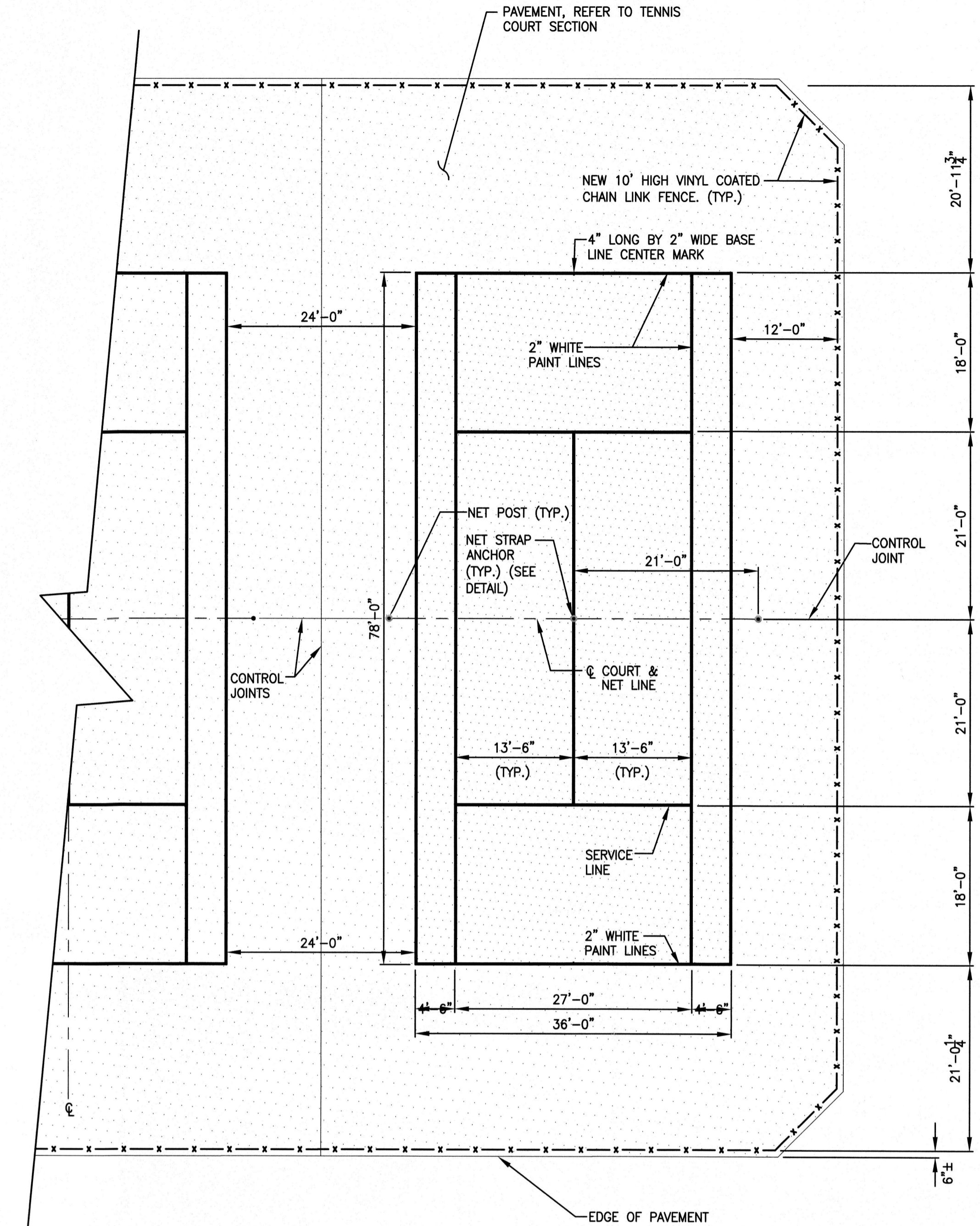
GRAPHIC SCALE

SHEET TITLE

DETAIL SHEET
 4 OF 4

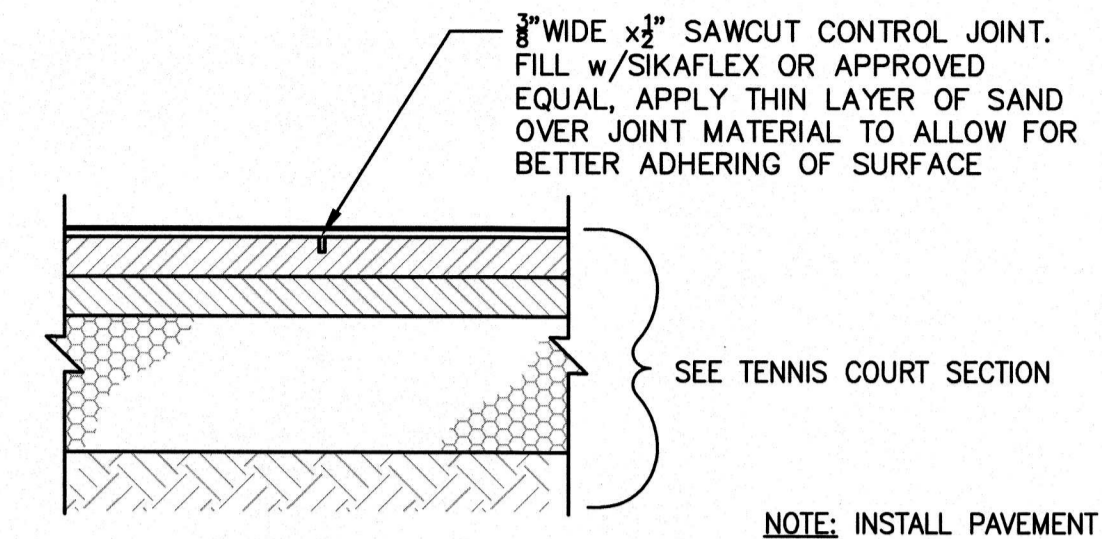
DRAWING NO.
C504
 PROJECT NO. 716034

PERMIT SET



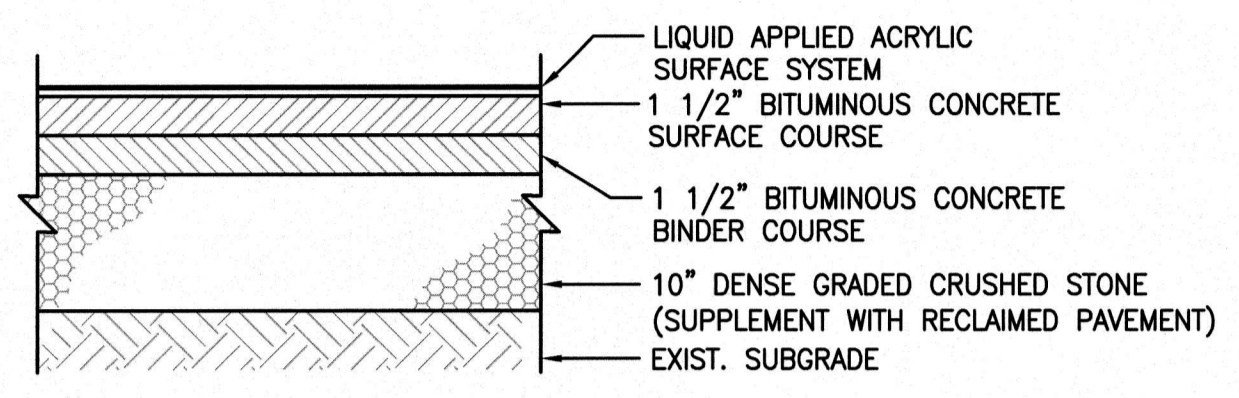
6 36' x 78' STANDARD TENNIS COURT
 N.T.S.

- NOTES:
- NEW TENNIS COURTS TO INCLUDE INSTALLATION OF NEW POSTS, NETS STRAPS W/ANCHORS AND FENCING.
 - COURT SURFACE COLORS TO BE CONFIRMED/APPROVED BY OWNER.
 - ALL MEASUREMENTS ARE OUTSIDE TO OUTSIDE OF COURT LINES.
 - ALL FENCE MEASUREMENTS ARE CL TO CL.
 - CONTRACTOR WILL SUBMIT A SCALED TENNIS MARKING PLAN SHOP DRAWING FOR OWNER APPROVAL.
 - INSTALL CONTROL JOINTS BETWEEN COURTS AND ALONG NET LINES.

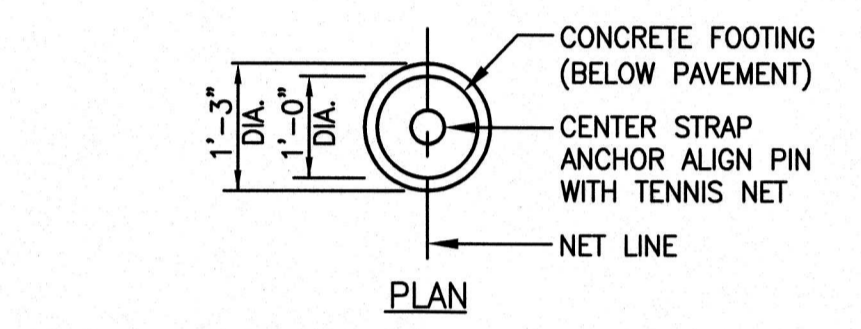


2 PAVEMENT CONTROL JOINT
 N.T.S.

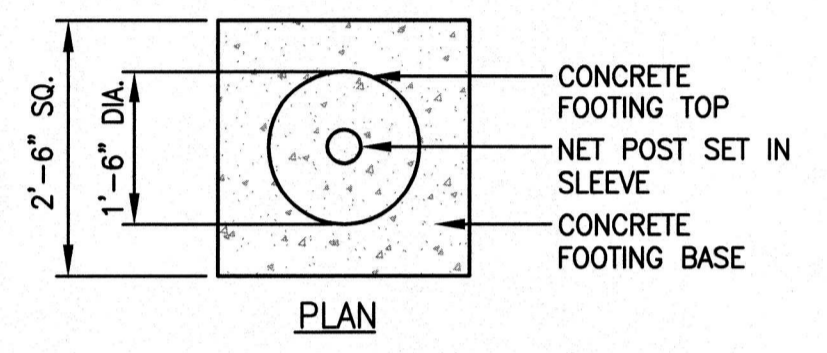
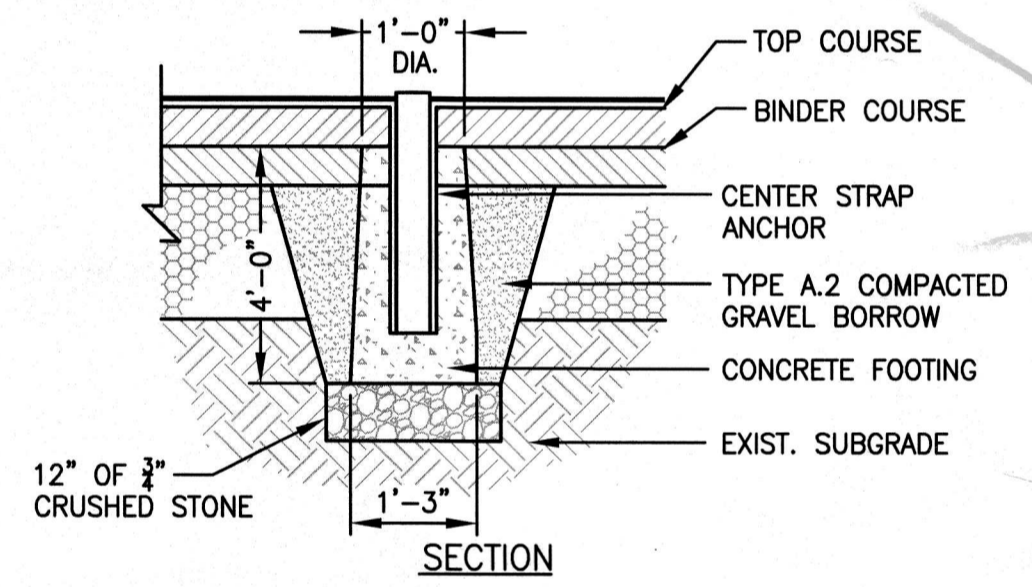
NOTE: INSTALL PAVEMENT CONTROL JOINT BETWEEN EACH COURT AND ALONG NET LINE



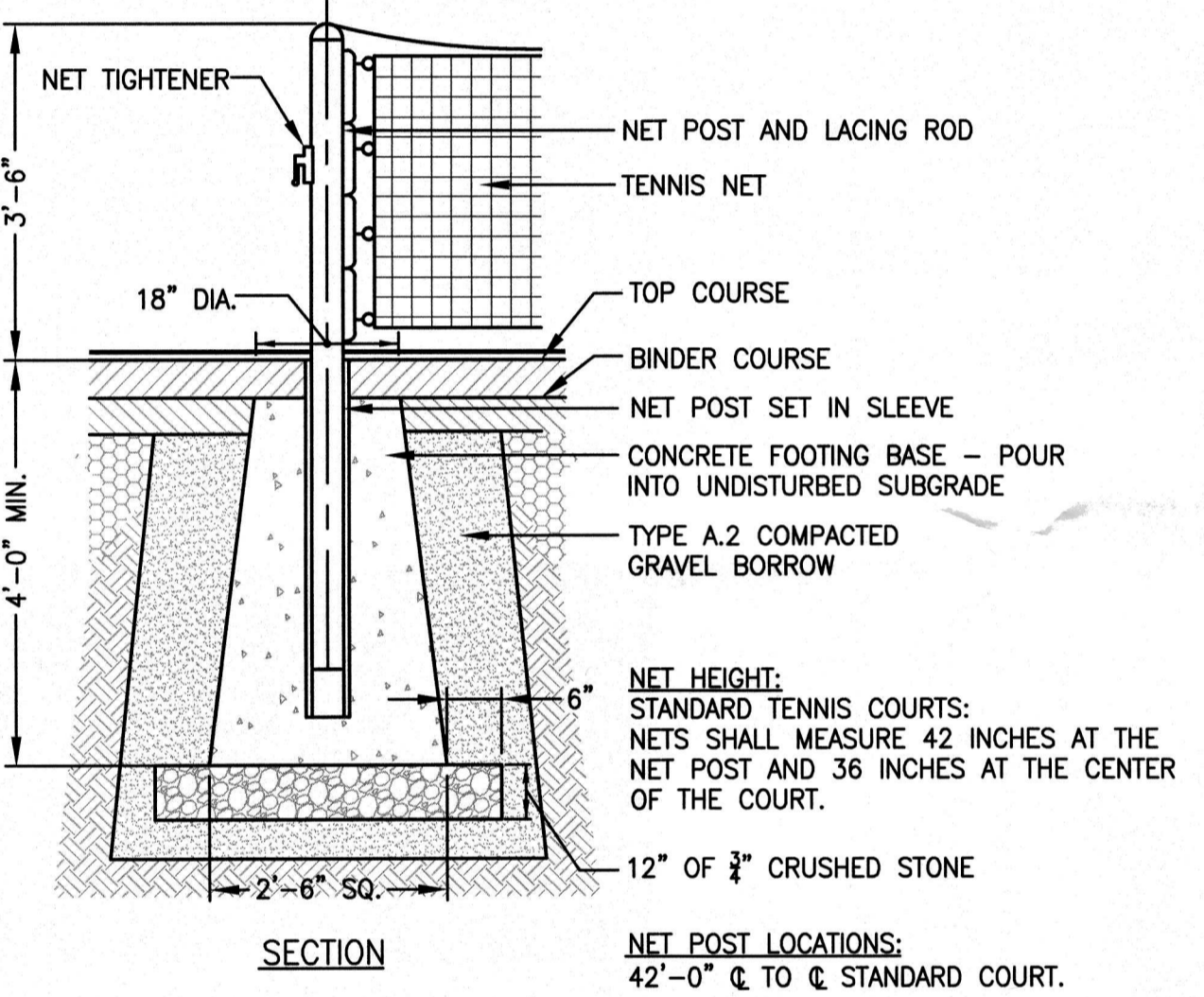
1 TENNIS COURT SECTION
 N.T.S.



4 TENNIS NET CENTER STRAP ANCHOR
 N.T.S.



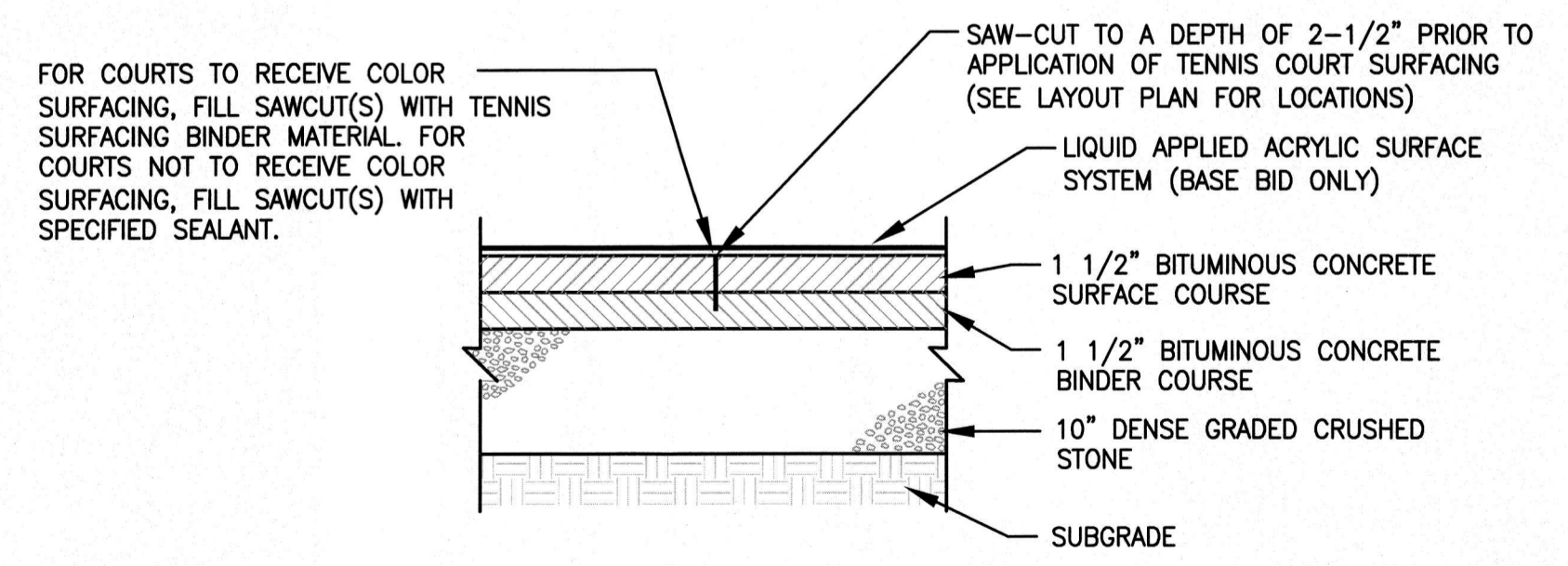
3 TENNIS NET POST FOOTING
 N.T.S.



NET HEIGHT:
 STANDARD TENNIS COURTS:
 NETS SHALL MEASURE 42 INCHES AT THE NET POST AND 36 INCHES AT THE CENTER OF THE COURT.

NET POST LOCATIONS:
 42'-0" CL TO CL STANDARD COURT.

5 SAW-CUT DETAIL
 N.T.S.

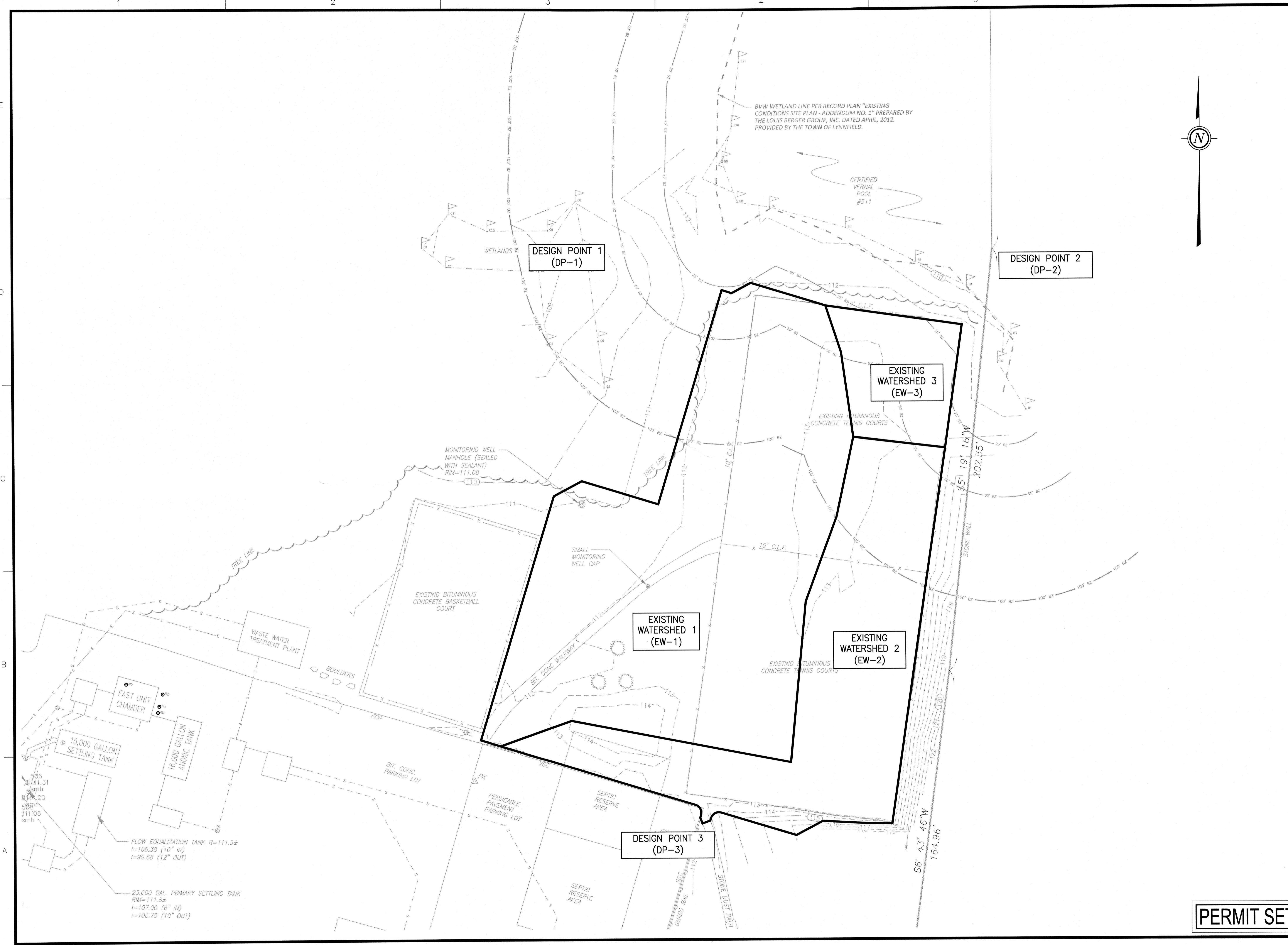
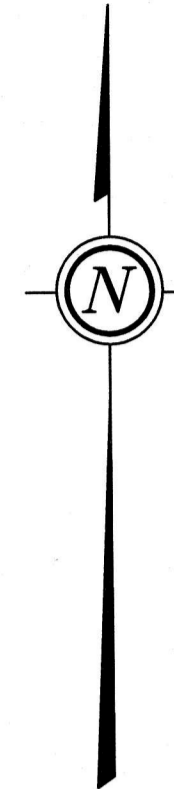


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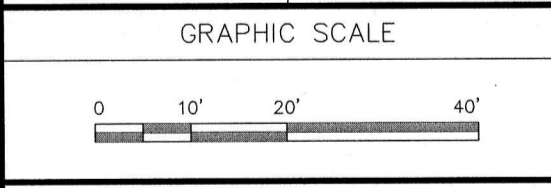


PROJECT
TENNIS COURT RECONSTRUCTION
 LYNNFIELD HIGH SCHOOL
 275 ESSEX STREET
 LYNNFIELD, MA

OWNER
 TOWN OF LYNNFIELD
 55 SUMMER STREET
 LYNNFIELD, MA

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_HS-Existing Watersheds
DESIGNED BY	MJL
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	1"=20'



SHEET TITLE

EXISTING CONDITIONS WATERSHED MAP

DRAWING NO.
EWS
 PROJECT NO. 716034

PERMIT SET

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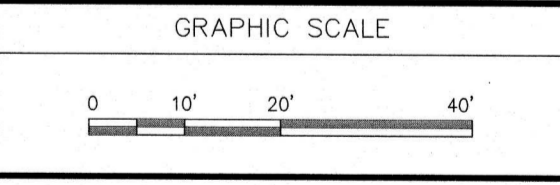
PROJECT
TENNIS COURT RECONSTRUCTION
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REVISIONS

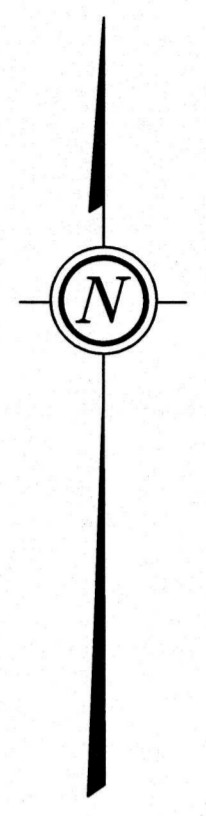
NO.	DATE	DESCRIPTION
1	6/12/18	SHIFT SOUTH
2	6/26/18	REVISIONS

CADD FILE	716034_HS-Proposed Watersheds
DESIGNED BY	M.J.L.
DRAWN BY	HAM
CHECKED BY	JMP
DATE	MARCH 27, 2017
DRAWING SCALE	1"=20'



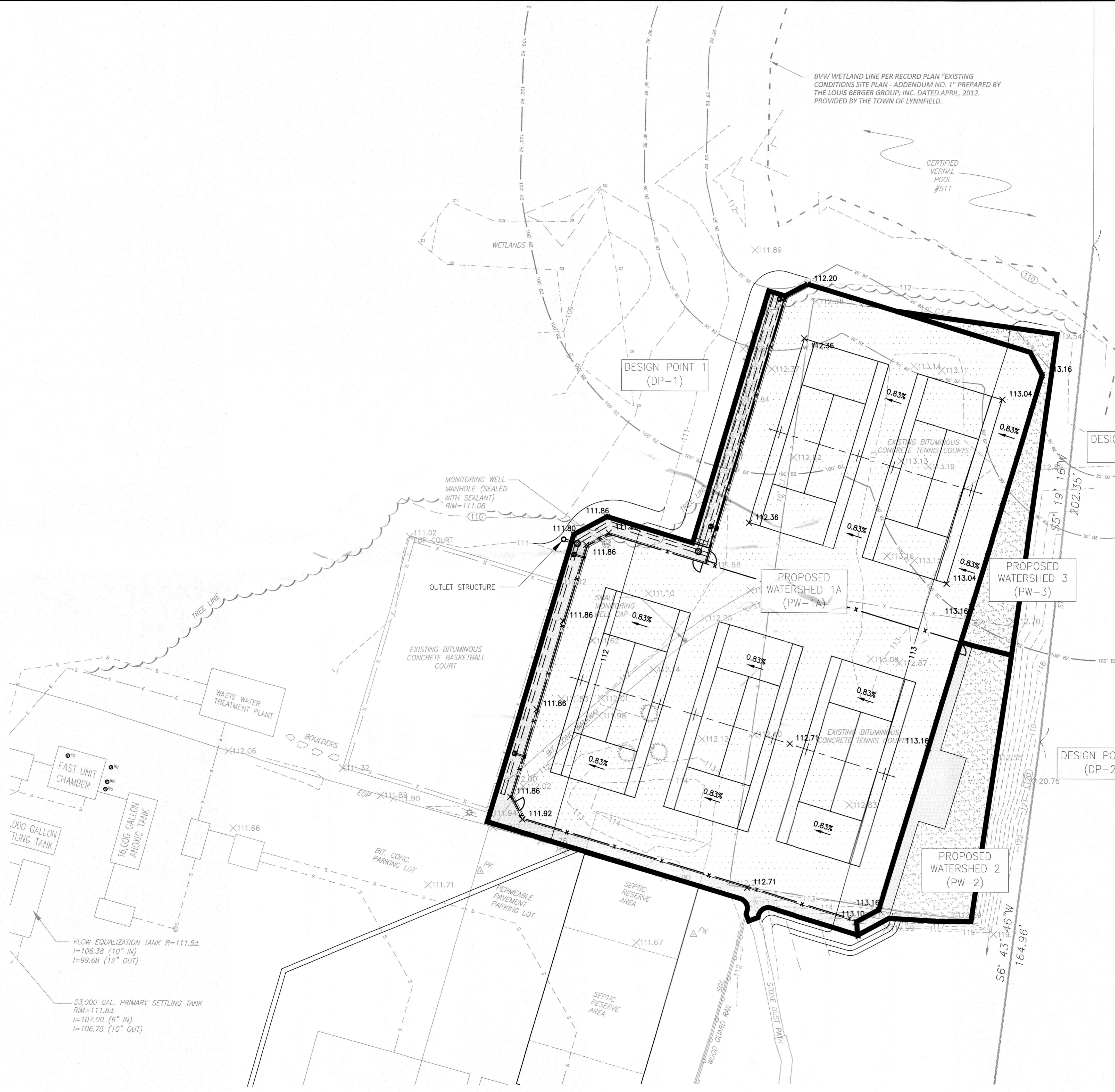
SHEET TITLE
PROPOSED WATERSHED MAP

DRAWING NO. **PWS**
PROJECT NO. 716034



BVW WETLAND LINE PER RECORD PLAN "EXISTING CONDITIONS SITE PLAN - ADDENDUM NO. 1" PREPARED BY THE LOUIS BERGER GROUP, INC. DATED APRIL, 2012. PROVIDED BY THE TOWN OF LYNNFIELD.

CERTIFIED VERNAL POOL #511



PEAK FLOW TABLE

	STORM YEAR	EXISTING	PROPOSED
DP-1	2	0.90	0
	10	1.72	0.32
	100	2.98	2.63
DP-2	2	0.84	0.07
	10	1.33	0.16
	100	2.02	0.30
DP-3	2	0.25	0.01
	10	0.37	0.05
	100	0.54	0.11

PERMIT SET

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