

SITE PLANS FOR YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA

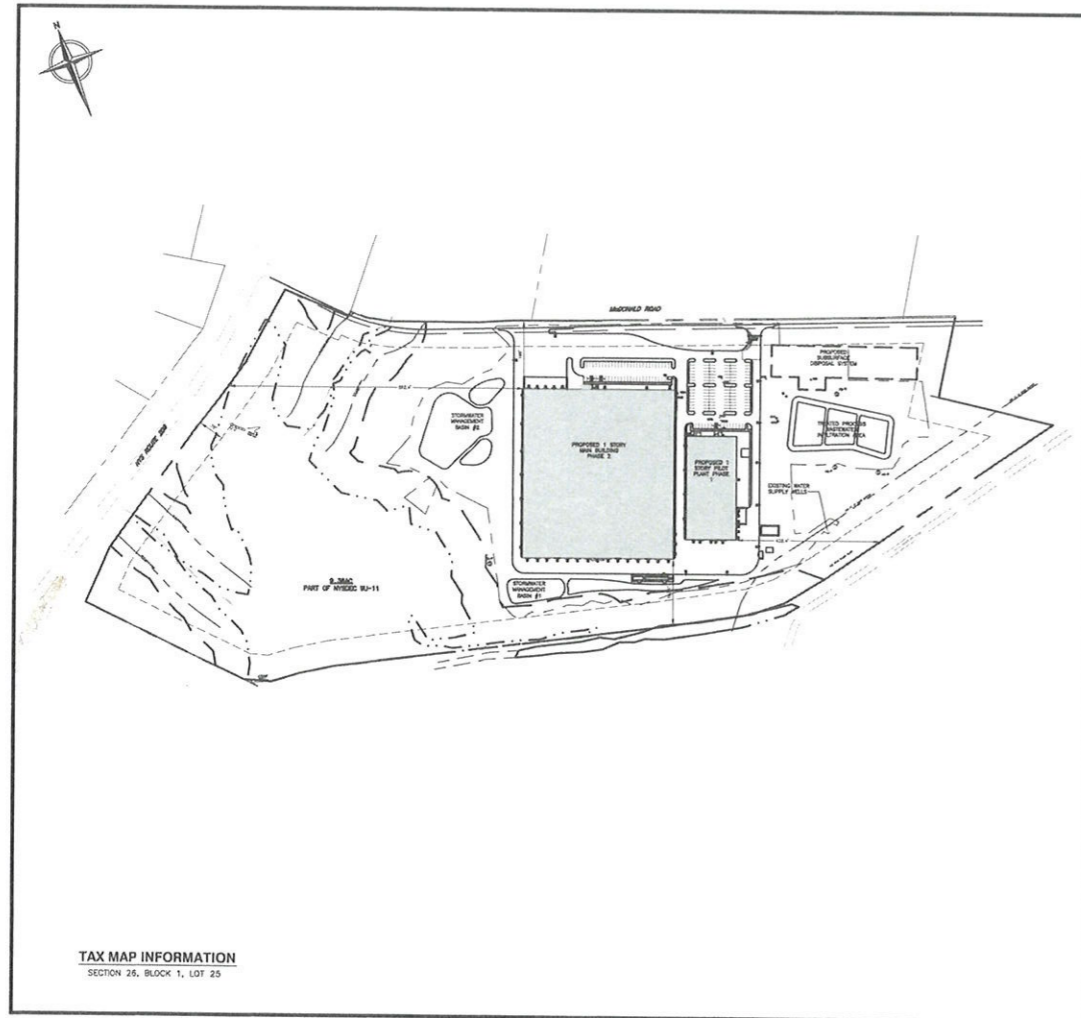
TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

JUNE 25, 2008

REVISED DECEMBER 22, 2010

AMENDED DECEMBER 2, 2016

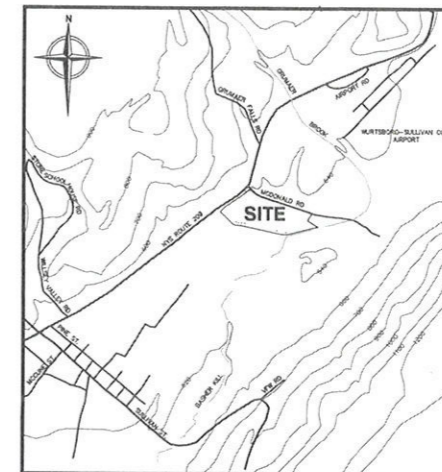
REVISED JANUARY 9, 2017



TAX MAP INFORMATION
SECTION 25, BLOCK 1, LOT 25

RECORD OWNER:
YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
200 MIDWAY PARK DRIVE
WADSWORTH, NY 10943
ON BEHALF OF DE EDD, LLC
40 TIFFANY PLACE
BROOKLYN, NY 11231

SITE CIVIL ENGINEER:
CORNERSTONE, A TETRA TECH COMPANY
100 CRYSTAL RUN ROAD, SUITE 101
WADSWORTH, NY 10941



SOURCE: ELECTRONIC FILE OF ORANGE COUNTY WATER AUTHORITY 1996

ZONE: LIO (LIGHT INDUSTRY / OFFICE)- AGRIBUSINESS (SU)		
MINIMUM BULK REQUIREMENTS :	REQUIRED	PROPOSED
LOT SIZE (TOTAL AREA)	10.0 A.C.	47.8 A.C. OR 2,082,168 S.F. *
LOT WIDTH	200 FT.	725 FT. ±
LOT DEPTH	300 FT.	410 FT. ±
FRONT YARD	75 FT.	158 FT. ± R. 852 FT. ±
REAR YARD	75 FT.	193 FT. ±
SIDE YARD	75 FT.	422 FT. ±
MAX. BUILDING HEIGHT	4 STORIES, 45 FT.	1 STORY, 33 FT. ±, 12 FT. ± ACCESSORY UTILITIES
MAX. LOT COVERAGE	35%	39% *
PARKING SPACES	AS REQUIRED BY PLANNING BOARD PER 199-300	150 (120 EMPLOYEES)
LOADING SPACES	21	9 *
PARKING AREA LANDSCAPING	20%	20%

SU-SPECIAL USE REQUIRING APPROVAL FROM PLANNING BOARD

BUILDING AREA			
BUILDING DESCRIPTION	NO. OF FLOORS	BUILDING FOOTPRINT (SQ. FT.)	AREA (ACRES)
PILOT PLANT (PHASE I)	1	44,100 ±	1.01 ±
MAIN PLANT (PHASE II)	1	214,455 ±	4.92 ±
TOTAL BUILDING COVERAGE		258,555 ±	5.93 ±
ASPHALT (PAVED AREAS)		208,748 ±	4.79 ±
WATER TANK / VALVE CHAMBER		1974 ±	0.05 ±
TOTAL IMPERVIOUS AREA		469,277 ±	10.77 ±

LOT COVERAGE		
MINIMUM BULK REQUIREMENTS :	ON-SITE (ACRES)	EXCLUSION (ACRES)
LOT SIZE	47.8 ±	0
WETLAND AND DEC BUFFER-100X	19.0 ±	19.0 ±
100 YR. FLOODPLAIN-50X	0.29 ±	0.145 ±
ROADWAY-50X	0.09 ±	0.03 ±
AREA-15% SLOPE-50X	1.53 ±	0.765 ±
		USEABLE-27.86
		10.77 / 27.86 ± 39% LOT COVERAGE

*VARIANCE GRANTED BY TOWN OF MAMAKATING ZONING BOARD OF APPEALS ON 12/22/05

INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	VARIANCES AND SPECIAL CONDITIONS SHEET
3	EXISTING CONDITIONS PLAN
4	SITE PLAN - SHEET 1 OF 2
5	SITE PLAN - SHEET 2 OF 2
6	GRADING AND UTILITY PLAN - SHEET 1 OF 2
7	GRADING AND UTILITY PLAN - SHEET 2 OF 2
8	EROSION CONTROL PLAN
9	LIGHTING AND LANDSCAPING PLAN
10A	PHASE 1A PLAN
10B	PHASE 1B PLAN
11	PHASE 2 PLAN
12	SUBSURFACE DISPOSAL SYSTEM PLAN AND DETAILS
13	SITE DETAILS
14	WATER DETAILS
15	SANITARY AND PROCESS WATER DETAILS
16	STORMWATER DETAILS
17	EROSION CONTROL DETAILS
18	LIGHTING AND LANDSCAPING DETAILS
19	STORM SEWER PROFILES
20	TYPICAL WATER TANK FOUNDATION PLAN, ROOF FRAMING PLAN, ELEVATIONS, & SECTIONS

REQUIRED PERMITS	
AGENCY	DESCRIPTION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	STORMWATER QUALITY CONTROLS, WASTEWATER TREATMENT/ DISPOSAL, WETLAND DISTURBANCE
NEW YORK STATE DEPARTMENT OF HEALTH	POTABLE WATER SYSTEM
DELAWARE RIVER BASIN COMMISSION	WATER WITHDRAWAL, STORMWATER MANAGEMENT
TOWN HIGHWAY DEPARTMENT	IMPROVEMENTS TO MCDONALD ROAD

NOTES:

- CONSTRUCTION SHALL BE LIMITED TO 7AM TO 6PM MONDAY - SATURDAY.
- THERE SHALL BE NO OUTDOOR STORAGE OF OPERATIONAL MATERIAL ON THE SITE. MATERIALS REQUIRED FOR THE OPERATION OF THE FACILITY SHALL BE STORED WITHIN BUILDINGS INDICATED ON THE PLANS.
- UP TO 450 SOLAR PANELS AND 8 WIND TURBINES WILL BE INSTALLED ON THE ROOF OF THE PILOT PLANT, AND UP TO 2,486 SOLAR PANELS AND 18 WIND TURBINES WILL BE INSTALLED ON THE ROOF OF THE MAIN BUILDING.

REV.	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
11	01/25/17	UPDATE DRAWING LIST	SMW	SMW	SMW	SMW
10	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
9	12/22/16	PILOT PLANT LOADING AREA	SMW	SMW	SMW	SMW

FOR SITE PLAN APPROVAL

KRISTEN M. HORDAHL, P.E.
N.Y.P.E. Lic. No. 087294-1 Date 2/15/08

REV.	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
11	01/25/17	FINAL REVISIONS	SMW	SMW	SMW	SMW
10	12/22/16	APPROVAL-ORIG REVISIONS	SMW	SMW	SMW	SMW
9	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
8	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
7	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
6	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
5	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
4	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
3	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
2	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW
1	12/22/16	PHASE SHEETS 1, 2, 3, 4, 10	SMW	SMW	SMW	SMW

cornerstone
A TETRA TECH COMPANY

YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

SHEET NO. **1**
PROJECT NO. 070291

COVER SHEET



CONDITIONS OF SPECIAL USE PERMIT

1. THE TOWN WILL BE FREE TO ABANDON TO INSPECT THE FACILITY AT ANY TIME.
2. SOIL AND GEOTECHNICAL ENGINEERING REPORTS SHALL BE REVIEWED BY THE TOWN ENGINEER AND APPROVED ON THE PROJECT BEFORE THE SPECIAL USE PERMIT IS GRANTED. THE SPECIAL USE PERMIT WILL BE VALID FOR ONE YEAR FROM THE DATE OF GRANTING.
3. ALL OPERATIONS AND MAINTENANCE PLAN WILL BE DEVELOPED TO ENSURE THE FACILITY IS OPERATED IN ACCORDANCE WITH THE TOWN ENGINEER'S RECOMMENDATIONS. THE TOWN ENGINEER WILL BE MAINTAINED IN THE TOWN ENGINEER'S OFFICE FOR REVIEW AND APPROVAL. THE PLAN WILL BE VALID FOR ONE YEAR FROM THE DATE OF GRANTING.
4. CONSTRUCTION RECORDS SHALL BE MAINTAINED AND SUBMITTED TO THE TOWN ENGINEER FOR REVIEW AT THE END OF EACH YEAR. THE RECORDS SHALL INCLUDE:
 - a) THE LOCATION AND EXTENT OF ALL CONSTRUCTION WORK.
 - b) THE NAME AND POSITION OF ALL PERSONNEL INVOLVED IN THE CONSTRUCTION OF THE FACILITY.
 - c) THE DATE WHEN WORK BEGAN AND ENDED.
 - d) THE DATE WHEN THE FACILITY WAS COMPLETED.
 - e) THE DATE WHEN THE FACILITY WAS OPERATIONAL.
 - f) THE DATE WHEN THE FACILITY WAS MAINTAINED.
5. THE TOWN ENGINEER SHALL HAVE ACCESS TO ALL RECORDS AND SHALL BE PROVIDED WITH A COPY OF THE RECORDS AT ALL TIMES.
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VARIANCES GRANTED DECEMBER 22, 2005

1. A VARIANCE TO PERMIT LOT DEVELOPMENT COVERAGE OF 45% WHERE THE WORK ALLOWED BY TOWN CODE § 199-1.6, SCHEDULE I, § 338.
2. A VARIANCE TO PERMIT CONSTRUCTION OF SEVEN (7) LOADING BERTHS, WHERE THE WORK ALLOWED BY TOWN CODE § 199-1.6, SCHEDULE I, § 338.
3. A VARIANCE TO PERMIT CONSTRUCTION OF A BUILDING SERVING (60) FEET IN HEIGHT ABOVE THE BUILDING FOOTPRINT PERMITTED BY TOWN CODE § 199-1.6, SCHEDULE I, § 338. HEIGHT (65) FEET; AND
4. A VARIANCE TO PERMIT CONSTRUCTION OF ACCESSORY BUILINGS ABOVE THE PERMITTED BUILDING FOOTPRINT (10) FEET IN HEIGHT ABOVE THE BUILDING FOOTPRINT PERMITTED BY TOWN CODE § 199-1.6, SCHEDULE I, § 338. HEIGHT (15) FEET; AND
5. THE APPLICANT SHALL CHASE ALL BUILDING AND THEIR ROOFS TO BE OF AN EARTH TONE COLOR AND NON-REFLECTIVE SURFACES.
6. THE APPLICANT SHALL CHASE SUCH LANDSCAPING IMPROVEMENTS TO THE PROPERTY AS THE PLANNING BOARD MAY SUGGEST IN ADDITION TO THE FOLLOWING: A WALKWAY OR BIKEWAY ALONG THE PERIMETER OF THE FACILITY, TO BE CONSTRUCTED WITHIN THE PERMITTED LOT AREA. THE APPLICANT SHALL MAINTAIN THE WALKWAY OR BIKEWAY IN GOOD CONDITION.

CONDITIONS OF VARIANCES

1. THE APPLICANT'S WELL OR, IF MORE THAN ONE SHALL IN THE FUTURE BE PERMITTED, WELLS WILL BE DRILLED TO A DEPTH OF 60 FEET EXCEPT AS SET FORTH BELOW.
2. THE APPLICANT SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL WELLS AND EQUIPMENT USED IN CONNECTION WITH THE OPERATION OF THE FACILITY.
3. THE EXPENSES OF MAINTENANCE AND REPAIR SHALL BE LIMITED TO THE COST OF LABOR AND MATERIALS ONLY. UNDER NO CIRCUMSTANCES WILL WELL WATER BE USED FOR IRRIGATION OR ANY OTHER PURPOSES.
4. THE APPLICANT SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL WELLS AND EQUIPMENT USED IN CONNECTION WITH THE OPERATION OF THE FACILITY.
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MAINTENANCE SCHEDULE:

1. ALL STORMWATER FACILITIES AND THE MAINTENANCE BENS SHALL BE INSPECTED AFTER EACH STORM EVENT AND ANY DEFICITS OR DEFICIENCIES SHALL BE CORRECTED AS SOON AS POSSIBLE.
2. WORKING CLAIM AND REMOVE DEBRIS FROM COLLECTION BENS.
3. VISUAL INSPECTION AND CLEANING OF BENS SHALL BE CONDUCTED AS SOON AS NECESSARY (MINIMUM HEIGHT OF 6 INCHES).
4. ANNUALLY, INSPECT THE STORMWATER DETENTION BASIN, FLOWWAYS AND MAINTENANCE BENS FOR DEBRIS AND WORKING AND OCCUPY DETENTION ACCUMULATION AND REPAIR AS NECESSARY.
5. ANNUALLY, INSPECT PROCESS MATERIALS PUMP STATION. ALL WORKSHEET AND REPORTS SHALL BE SUBMITTED TO THE TOWN ENGINEER WITHIN 30 DAYS.
6. EVERY 2 YEARS, VISUAL, VISUAL, VISUAL INSPECTION WITH ACCUMULATION INSPECTION SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
7. EVERY 2 YEARS, VISUAL, VISUAL, VISUAL INSPECTION WITH ACCUMULATION INSPECTION SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
8. EVERY 10 YEARS, CLEAN STORMWATER COLLECTION SYSTEM PUMP STATION. CLEAN PUMP AND INSPECT FOR DEBRIS AND WORKING AND OCCUPY DETENTION BASIN AS NECESSARY. VISUAL, VISUAL, VISUAL INSPECTION WITH ACCUMULATION INSPECTION SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.

FOR SITE PLAN APPROVAL

DATE	BY	REVISION
2/15/08
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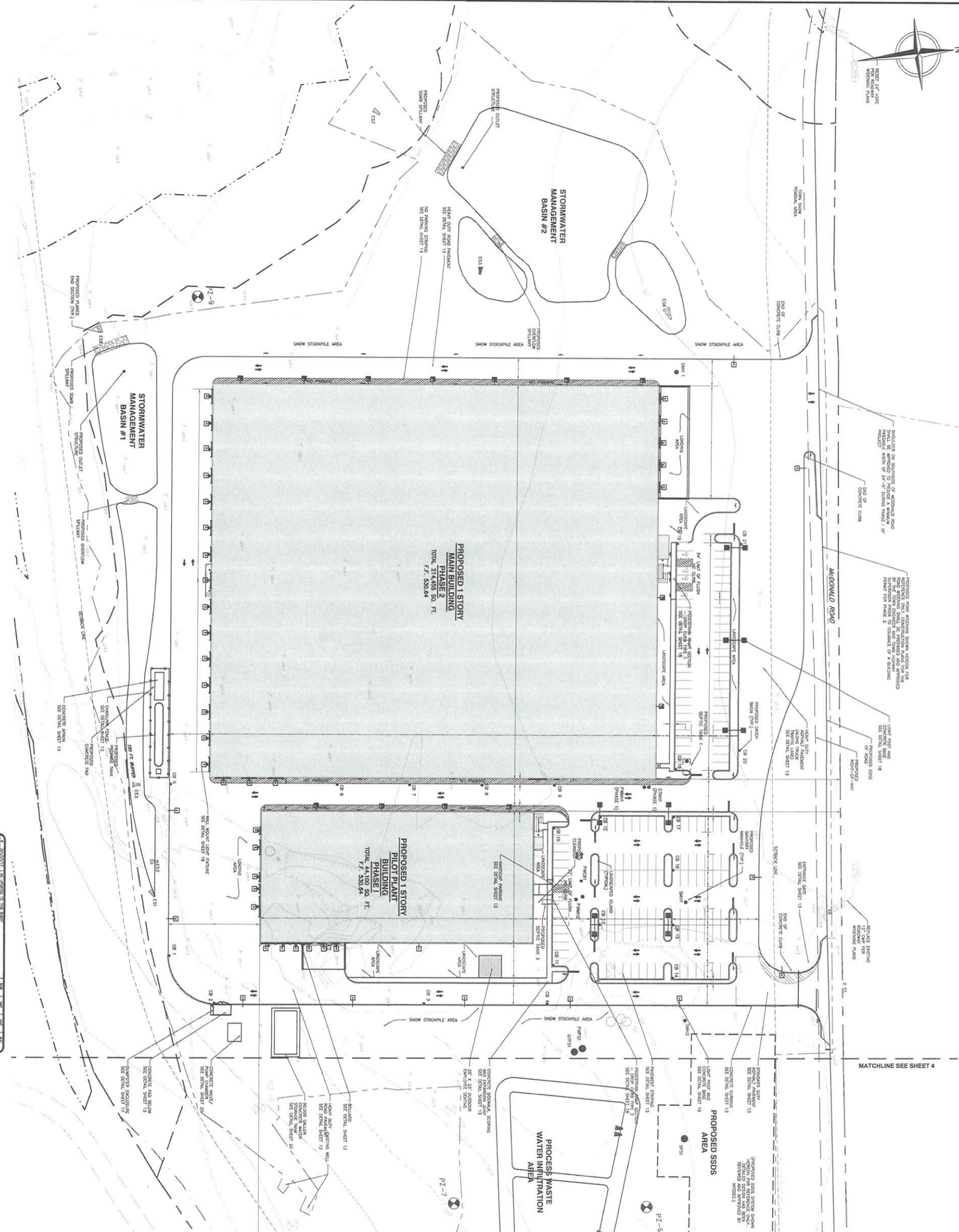


YURIGUNI MATZKE MANUFACTURING CORPORATION OF AMERICA
TOWN OF YAMAKATING, SULLIVAN COUNTY, NEW YORK

VARIANCES AND SPECIAL CONDITIONS SHEET

SHEET NO. **2**

PROJECT NO. 07031



FOR SITE PLAN APPROVAL

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR PERMIT	04/24/2017
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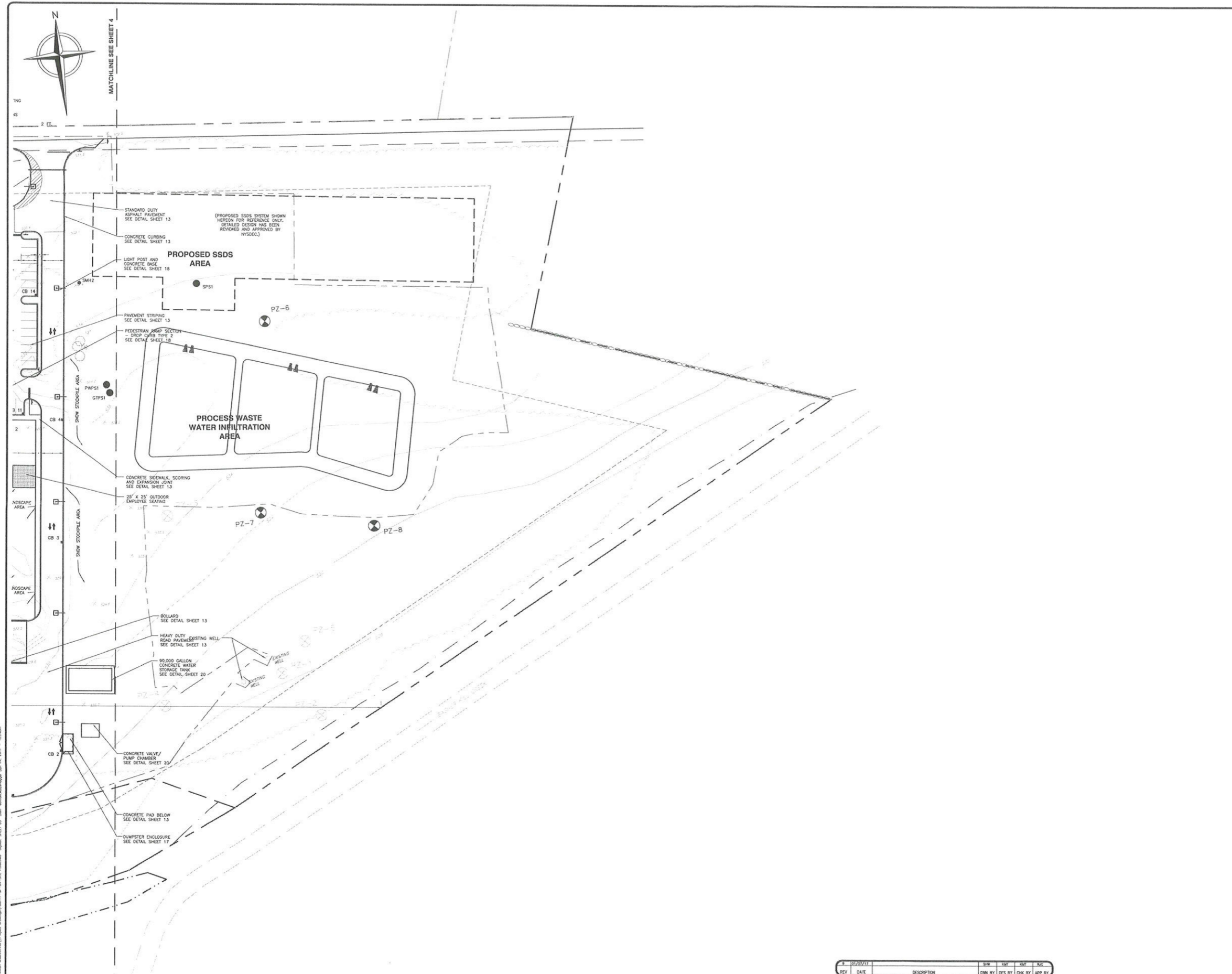
Professional Engineer Seal for Kristin A. Gagnon, P.E., No. 062824-1, State of New York, dated 2/15/08.



YUKGUNI MATAKE MANUFACTURING CORPORATION OF AMERICA
TOWN OF MAMMATING, SULLIVAN COUNTY, NEW YORK
SHEET NO. 4
PRODUCT NO. 070231

- NOTES:**
1. A 2' TYPED LINE SHALL BE USED TO THE SHOULDER OF THE ROAD TO INDICATE THE LOCATION OF THE SHOULDER. THE ROAD SHOULD BE WIDENED TO A MINIMUM OF 24 FT. FIRST 2' FROM THE EXISTING CURB AND 2' FROM THE EXISTING CURB TO THE SHOULDER. THE SHOULDER SHOULD BE 2' WIDE AND 4" HIGH.
 2. THE ROAD SHOULD BE WIDENED TO A MINIMUM OF 24 FT. FIRST 2' FROM THE EXISTING CURB AND 2' FROM THE EXISTING CURB TO THE SHOULDER. THE SHOULDER SHOULD BE 2' WIDE AND 4" HIGH.
 3. CONCRETE SHOULD BE 1500 PSI AND 4" THICK.
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 6. CONCRETE SHOULD BE 1500 PSI AND 4" THICK.
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- McDONALD ROAD IMPROVEMENTS**
- THE ROAD SHOULD BE WIDENED TO A MINIMUM OF 24 FT. FIRST 2' FROM THE EXISTING CURB AND 2' FROM THE EXISTING CURB TO THE SHOULDER. THE SHOULDER SHOULD BE 2' WIDE AND 4" HIGH.
- PROPOSED CONCRETE WALK OR PAD
 - PROPOSED GRAVEL AREA
 - PROPOSED LIGHT DUTY ASPHALT
 - PROPOSED HEAVY DUTY ASPHALT
 - PROPOSED NO PARKING AREA
 - DESIGNATED TRAFFIC FLOW
 - PROPOSED PARKING SPACES

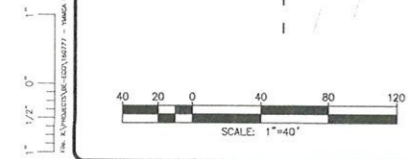
- LEGEND:**
- PROPOSED LINE
 - ADJACENT PROPERTY LINE
 - WETLAND LIMIT
 - EXISTING MAJOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING EDGE OF WATER
 - EXISTING SPOT ELEVATION
 - EXISTING FENCE
 - EXISTING STONE WALL
 - EXISTING TREE LINE
 - EXISTING OVERHEAD WIRES
 - EXISTING UNDERGROUND STORM LINE
 - EXISTING INLET
 - EXISTING CATCH BASIN
 - EXISTING SANDHOLE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING UTILITY POLE
 - EXISTING LIGHT POLE
 - EXISTING SIGN
 - EXISTING FIREHYDRANT
 - EXISTING METER CONDUIT
 - PROPOSED INTERMEDIATE CONDUIT
 - PROPOSED STRUCTURE
 - PROPOSED SIGN
 - PROPOSED CURBING
 - PROPOSED BUILDING SETBACK LINE
 - PROPOSED BUILDING
 - PROPOSED RAMPAGE STRUCTURE
 - PROPOSED OUTLET STRUCTURE
 - PROPOSED SANDHOLE
 - PROPOSED PROCESS WATER PUMP STATION
 - PROPOSED DETENTION PUMP STATION
 - PROPOSED PROCESS WATER MANHOLE
 - PROPOSED GEOTECHNICAL WALL
 - PROPOSED MEMBRANE
 - PROPOSED BENCH MARK
 - PROPOSED DRAIN SECTION WITH 12" APERTURE
 - SCALLOP BOOK
 - LOADING DOCK
 - PROPOSED SIGN AND OBSERVATION POINT TO SHEET 13 SHEET 13
 - PROPOSED EXTENSION LIGHT FIXTURE



LEGEND:

---	PROPERTY LINE
---	ADJACENT PROPERTY LINE
---	WETLAND LIMIT
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	EXISTING EDGE OF WATER
---	EXISTING SPOT GRADE
---	EXISTING FENCE
---	EXISTING STONE WALL
---	EXISTING TREE LINE
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND STORM LINE
---	EXISTING HYDRANT
---	EXISTING CATCH BASIN
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	EXISTING UTILITY POLE
---	EXISTING LIGHT POLE
---	EXISTING SIGN
---	EXISTING PIEZOMETER
---	PROPOSED INDEX CONTOUR
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED STRUCTURE
---	PROPOSED SIGN
---	PROPOSED CURBING
---	PROPOSED BOLLARD
---	PROPOSED DRAINAGE STRUCTURE
---	PROPOSED OUTLET STRUCTURE
---	PROPOSED SANITARY SEWER MANHOLE
---	PROPOSED PROCESS WATER PUMP STATION
---	PROPOSED GEOTHERMAL PUMP STATION
---	PROPOSED PROCESS WATER MANHOLE
---	PROPOSED GEOTHERMAL MANHOLE
---	PROPOSED PIEZOMETER
---	PROPOSED TRENCH DRAIN
---	PROPOSED END SECTION WITH RIP RAP APRON
---	ROLLUP DOOR
---	LOADING DOCK
---	PROPOSED SIGN AND DESIGNATION (REFER TO DETAIL 6, SHEET 13)
---	PROPOSED EXTERIOR LIGHT FIXTURE
---	PROPOSED CONCRETE WALK OR PAD
---	PROPOSED GRAVEL AREA
---	PROPOSED LIGHT DUTY ASPHALT PAVEMENT
---	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
---	PROPOSED NO PARKING AREA
---	DESIGNATES TRAFFIC FLOW

- NOTES:**
- A 3" TEMPORARY BINDER WILL BE ADDED TO THE SHOULDER OF McDONALD ROAD AS PART OF THE PLOT PLAN CONSTRUCTION IN ORDER TO PROVIDE ADEQUATE SPACE FOR VEHICLES TO SAFELY PASS AND TWO EXISTING CULVERTS WILL BE RESET AND EXTENDED TO INCREASE COVER THICKNESS OVER THE PIPES.
- McDONALD ROAD IMPROVEMENTS**
- THE PLANS SHOULD BE COMPLETED AND INDICATE ALL IMPROVEMENTS AS INITIALLY DISCUSSED WITH THE HIGHWAY SUPERINTENDENT IN MARCH 2005. THIS INCLUDES THE FOLLOWING ITEMS:
- THE ROAD SHOULD BE WIDENED TO A MINIMUM OF 24 FT., PAST TRUCK ENTRANCE LOCATION.
 - REPLACE EXISTING CULVERT PIPE WITH RCP AND PROVIDE ADEQUATE COVER.
 - CLEAN/REPLACE SECOND CULVERT PIPE.
 - CONDUCT BORINGS AND DETERMINE DESIGN CRITERIA FOR IMPROVEMENTS AND SUBGRADE.
 - UPGRADE ROAD TO MINIMUM 3" BASE, 2" TOP COURSE PAVEMENT.
 - PROVIDE DIRECTIONAL SIGNAGE.
 - MODIFY SHOULDER SLOPES ON ENTRANCE, REVIEW NEED FOR GUIDESIDE.
 - PROVIDE ROAD SIDE SWALES TO CONVEY DRAINAGE.



REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
1	01/20/11				

FOR SITE PLAN APPROVAL

KRISTEN M. HOGAN, P.E.

 N.Y.P.E. Lic. No. 007294 Date

REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
1	11/27/13	TITLE REVISION			
2	12/26/13	NYSDC-DRG REVISIONS			
3	03/12/14	REVISED MANHOLE LOCATIONS			
4	03/12/14	REVISED FENCE LOCATIONS			
5	12/08/14	TOWN ENGINEER COMMENTS			
6	01/06/15	TOWN ENGINEER COMMENTS			
7	01/21/15	TOWN ENGINEER COMMENTS			
8	02/08/15	SUBMITTED FOR SITE PLAN APPROVAL			

cornerstone
 A TETRA TECH COMPANY

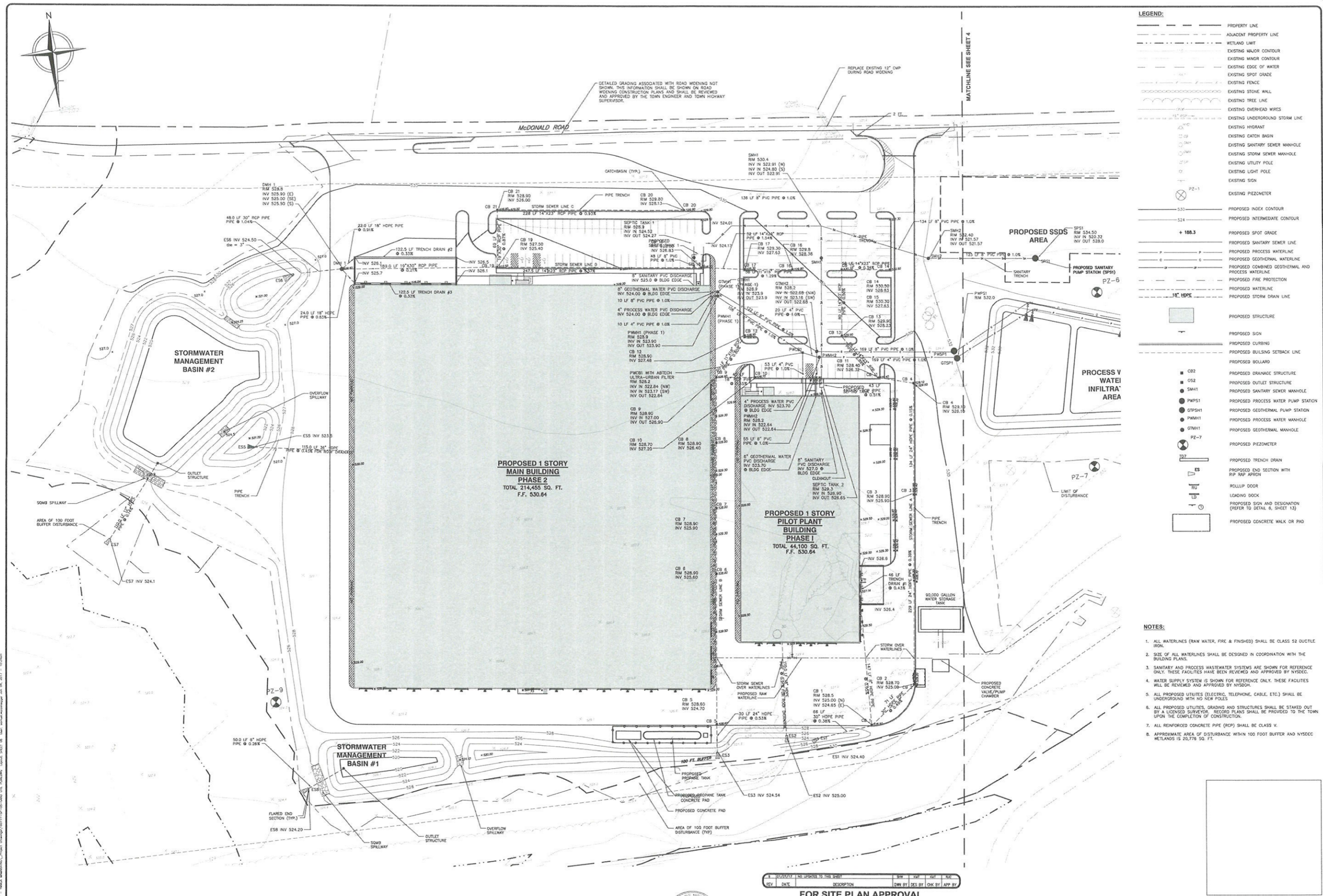
YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

SITE PLAN - SHEET 2 OF 2

SHEET NO. **5**
 PROJECT NO. 070291



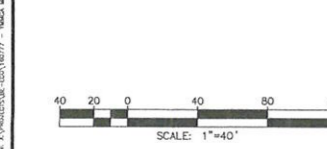
DETAILED DRAWING ASSOCIATED WITH ROAD WIDENING NOT SHOWN. THIS INFORMATION SHALL BE SHOWN ON ROAD WIDENING CONSTRUCTION PLANS AND SHALL BE REVIEWED AND APPROVED BY THE TOWN ENGINEER AND TOWN HIGHWAY SUPERVISOR.



LEGEND:

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	WETLAND LIMIT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF WATER
	EXISTING SPOT GRADE
	EXISTING FENCE
	EXISTING STONE WALL
	EXISTING TREE LINE
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND STORM LINE
	EXISTING HYDRANT
	EXISTING CATCH BASIN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING PIEZOMETER
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED SPOT GRADE
	PROPOSED SANITARY SEWER LINE
	PROPOSED PROCESS WATERLINE
	PROPOSED GEOTHERMAL WATERLINE
	PROPOSED COMBINED GEOTHERMAL AND PROCESS WATERLINE
	PROPOSED FIRE PROTECTION
	PROPOSED WATERLINE
	PROPOSED STORM DRAIN LINE
	PROPOSED STRUCTURE
	PROPOSED SIGN
	PROPOSED CURBING
	PROPOSED BUILDING SETBACK LINE
	PROPOSED BOLLARD
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED OUTLET STRUCTURE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED STORM SEWER MANHOLE
	PROPOSED PROCESS WATER PUMP STATION
	PROPOSED GEOTHERMAL PUMP STATION
	PROPOSED PROCESS WATER MANHOLE
	PROPOSED GEOTHERMAL MANHOLE
	PROPOSED PIEZOMETER
	PROPOSED TRENCH DRAIN
	PROPOSED END SECTION WITH RIP RAP APRON
	ROLLUP DOOR
	LOADING DOCK
	PROPOSED SIGN AND DESIGNATION (REFER TO DETAIL 6, SHEET 13)
	PROPOSED CONCRETE WALK OR PAD

- NOTES:**
1. ALL WATERLINES (RAIN WATER, FIRE & FINISHED) SHALL BE CLASS 52 DUCTILE IRON.
 2. SIZE OF ALL WATERLINES SHALL BE DESIGNED IN COORDINATION WITH THE BUILDING PLANS.
 3. SANITARY AND PROCESS WASTEWATER SYSTEMS ARE SHOWN FOR REFERENCE ONLY. THESE FACILITIES HAVE BEEN REVIEWED AND APPROVED BY NYDEC.
 4. WATER SUPPLY SYSTEM IS SHOWN FOR REFERENCE ONLY. THESE FACILITIES WILL BE REVIEWED AND APPROVED BY NYSDOH.
 5. ALL PROPOSED UTILITIES (ELECTRIC, TELEPHONE, CABLE, ETC.) SHALL BE UNDERGROUND WITH NO NEW POLES.
 6. ALL PROPOSED UTILITIES, GRADING AND STRUCTURES SHALL BE STAKED OUT BY A LICENSED SURVEYOR. RECORD PLANS SHALL BE PROVIDED TO THE TOWN UPON THE COMPLETION OF CONSTRUCTION.
 7. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS V.
 8. APPROXIMATE AREA OF DISTURBANCE WITHIN 100 FOOT BUFFER AND NYSDOH WETLANDS IS 20,776 SQ. FT.



REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
1	07/27/17	ADD UPDATES TO THIS SHEET	SM	SM	SM

FOR SITE PLAN APPROVAL

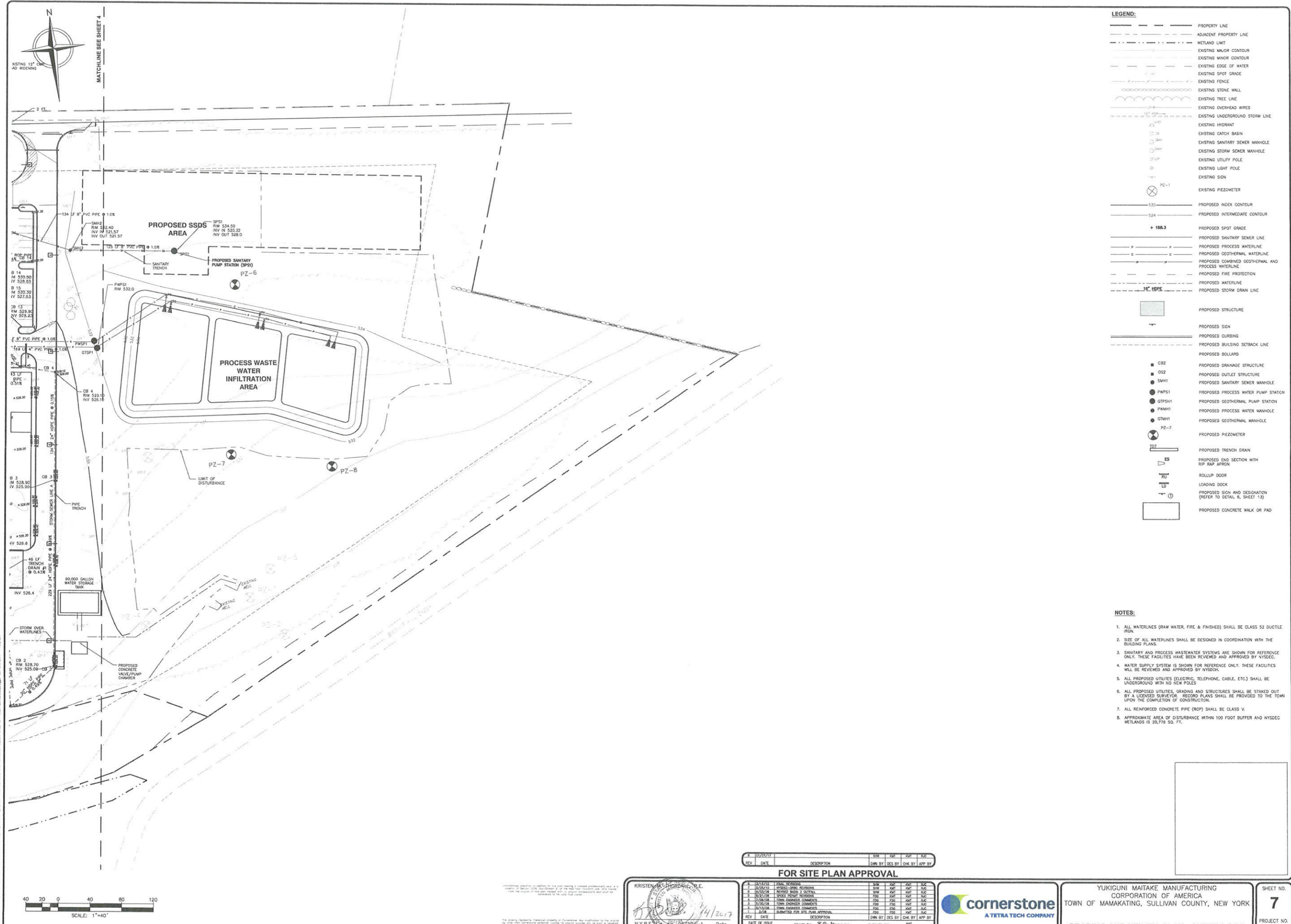
KRISTEN M THORNDAL, P.E.
 N.Y.P.E. Lic. No. 067294-1
 Date: 7/15/2017

REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
1	11/22/16	FINAL DESIGN	SM	SM	SM
2	02/08/17	ADD/REVISE APPROXIMATE WETLANDS	SM	SM	SM
3	02/10/17	ADD/REVISE STORM SEWER SYSTEM	SM	SM	SM
4	02/10/17	ADD/REVISE SANITARY SEWER SYSTEM	SM	SM	SM
5	02/10/17	ADD/REVISE PROCESS WATER SYSTEM	SM	SM	SM
6	02/10/17	ADD/REVISE STORM SEWER SYSTEM	SM	SM	SM
7	02/10/17	ADD/REVISE SANITARY SEWER SYSTEM	SM	SM	SM
8	02/10/17	ADD/REVISE PROCESS WATER SYSTEM	SM	SM	SM
9	02/10/17	ADD/REVISE STORM SEWER SYSTEM	SM	SM	SM
10	02/10/17	ADD/REVISE SANITARY SEWER SYSTEM	SM	SM	SM
11	02/10/17	ADD/REVISE PROCESS WATER SYSTEM	SM	SM	SM
12	02/10/17	ADD/REVISE STORM SEWER SYSTEM	SM	SM	SM
13	02/10/17	ADD/REVISE SANITARY SEWER SYSTEM	SM	SM	SM
14	02/10/17	ADD/REVISE PROCESS WATER SYSTEM	SM	SM	SM
15	02/10/17	ADD/REVISE STORM SEWER SYSTEM	SM	SM	SM
16	02/10/17	ADD/REVISE SANITARY SEWER SYSTEM	SM	SM	SM
17	02/10/17	ADD/REVISE PROCESS WATER SYSTEM	SM	SM	SM
18	02/10/17	ADD/REVISE STORM SEWER SYSTEM	SM	SM	SM
19	02/10/17	ADD/REVISE SANITARY SEWER SYSTEM	SM	SM	SM
20	02/10/17	ADD/REVISE PROCESS WATER SYSTEM	SM	SM	SM



YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK
GRADING AND UTILITY PLAN - SHEET 1 OF 2

SHEET NO. **6**
 PROJECT NO. 070291



LEGEND:

(---)	PROPERTY LINE
(- - - -)	ADJACENT PROPERTY LINE
(- · - · -)	WETLAND LIMIT
(---)	EXISTING MAJOR CONTOUR
(---)	EXISTING MINOR CONTOUR
(---)	EXISTING EDGE OF WATER
(---)	EXISTING SPOT GRADE
(---)	EXISTING FENCE
(---)	EXISTING STONE WALL
(---)	EXISTING TREE LINE
(---)	EXISTING OVERHEAD WIRES
(---)	EXISTING UNDERGROUND STORM LINE
(---)	EXISTING HYDRANT
(---)	EXISTING CATCH BASIN
(---)	EXISTING SANITARY SEWER MANHOLE
(---)	EXISTING STORM SEWER MANHOLE
(---)	EXISTING UTILITY POLE
(---)	EXISTING LIGHT POLE
(---)	EXISTING SIGN
(---)	EXISTING PIEZOMETER
(---)	PROPOSED INDEX CONTOUR
(---)	PROPOSED INTERMEDIATE CONTOUR
(---)	PROPOSED SPOT GRADE
(---)	PROPOSED SANITARY SEWER LINE
(---)	PROPOSED PROCESS WATERLINE
(---)	PROPOSED COMBINED GEOTHERMAL AND PROCESS WATERLINE
(---)	PROPOSED FIRE PROTECTION
(---)	PROPOSED WATERLINE
(---)	PROPOSED STORM DRAIN LINE
(---)	PROPOSED STRUCTURE
(---)	PROPOSED SIGN
(---)	PROPOSED CURBING
(---)	PROPOSED BUILDING SETBACK LINE
(---)	PROPOSED BOLLARD
(---)	PROPOSED DRAINAGE STRUCTURE
(---)	PROPOSED OUTLET STRUCTURE
(---)	PROPOSED SANITARY SEWER MANHOLE
(---)	PROPOSED PROCESS WATER PUMP STATION
(---)	PROPOSED GEOTHERMAL PUMP STATION
(---)	PROPOSED PROCESS WATER MANHOLE
(---)	PROPOSED GEOTHERMAL MANHOLE
(---)	PROPOSED PIEZOMETER
(---)	PROPOSED TRENCH DRAIN
(---)	PROPOSED END SECTION WITH RIP RAP APRON
(---)	ROLLUP DOOR
(---)	LOADING DOCK
(---)	PROPOSED SIGN AND DESIGNATION (REFER TO DETAIL 6, SHEET 13)
(---)	PROPOSED CONCRETE WALK OR PAD

- NOTES:**
- ALL WATERLINES (RAW WATER, FIRE & FINISHED) SHALL BE CLASS 52 DUCTILE IRON.
 - SIZE OF ALL WATERLINES SHALL BE DESIGNED IN COORDINATION WITH THE BUILDING PLANS.
 - SANITARY AND PROCESS WASTEWATER SYSTEMS ARE SHOWN FOR REFERENCE ONLY. THESE FACILITIES HAVE BEEN REVIEWED AND APPROVED BY NYSED.
 - WATER SUPPLY SYSTEM IS SHOWN FOR REFERENCE ONLY. THESE FACILITIES WILL BE REVIEWED AND APPROVED BY NYSDOH.
 - ALL PROPOSED UTILITIES (ELECTRIC, TELEPHONE, CABLE, ETC) SHALL BE UNDERGROUND WITH NO NEW POLES.
 - ALL PROPOSED UTILITIES, GRADING AND STRUCTURES SHALL BE STAKED OUT BY A LICENSED SURVEYOR. RECORD PLANS SHALL BE PROVIDED TO THE TOWN UPON THE COMPLETION OF CONSTRUCTION.
 - ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS V.
 - APPROXIMATE AREA OF DISTURBANCE WITHIN 100 FOOT BUFFER AND NYSED WETLANDS IS 20,776 SQ. FT.

REV	DATE	DESCRIPTION	DNW BY	DES BY	CHK BY	APP BY
1	01/20/17					

FOR SITE PLAN APPROVAL

KRISTEN M. HORDAHOPE, E.

 N.Y.P.E. No. 087294-1 Date 4/4/2017

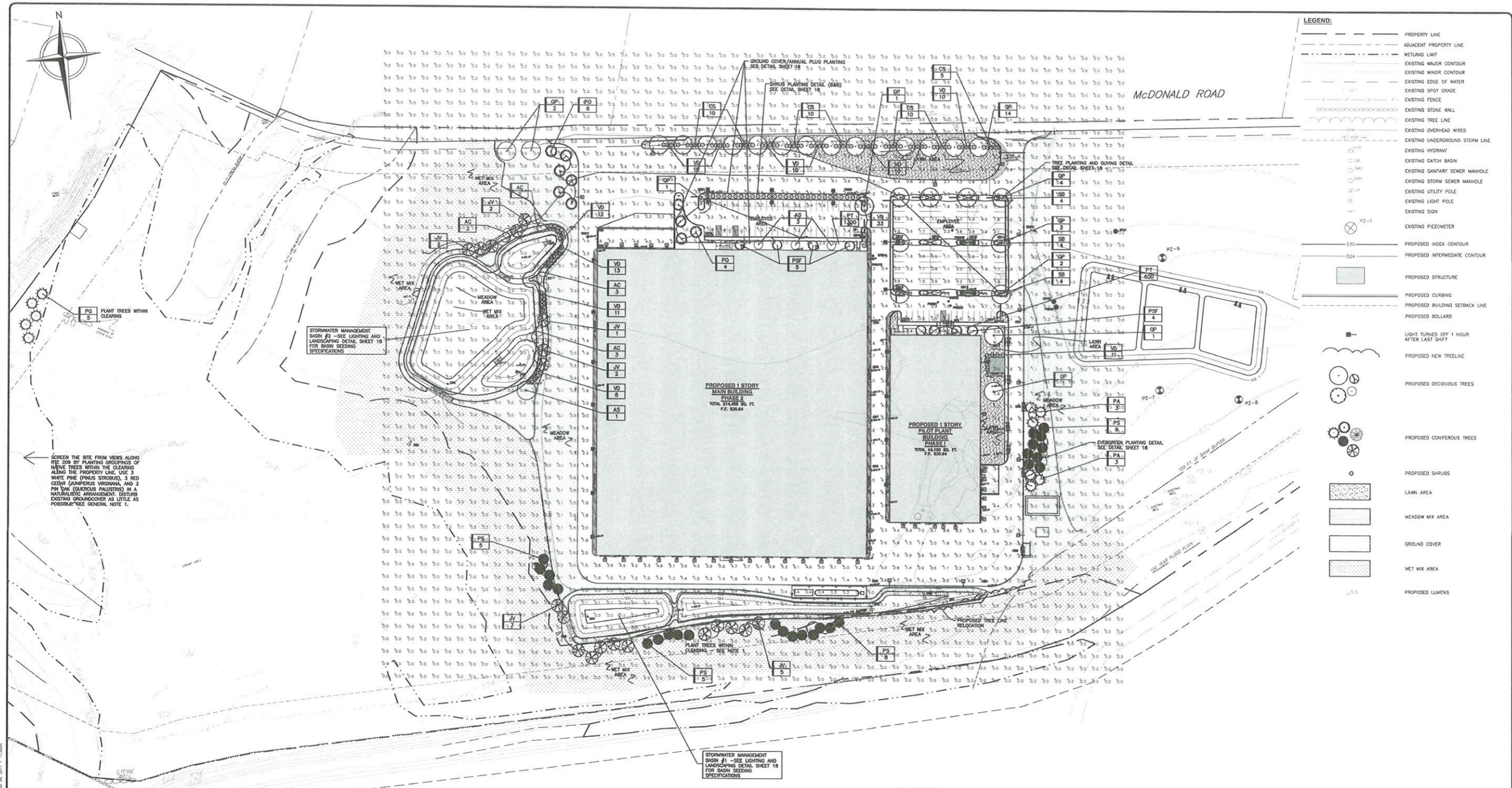
REV	DATE	DESCRIPTION	DNW BY	DES BY	CHK BY	APP BY
1	01/20/17	FINAL DESIGN				
2	02/02/17	MISC. DRG. SUBSIS				
3	02/02/17	PROPOSED BRICK OUTFALL				
4	02/02/17	SEWER PUMP STATION				
5	02/02/17	TOWN ENGINEER COMMENTS				
6	02/02/17	TOWN ENGINEER COMMENTS				
7	02/02/17	TOWN ENGINEER COMMENTS				
8	02/02/17	REVISION FOR PER. PLAN APPROVAL				

cornerstone
 A TETRA TECH COMPANY

YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

SHEET NO. **7**
 PROJECT NO. 070291

GRADING AND UTILITY PLAN - SHEET 2 OF 2



SCREEN THE SITE FROM VIEWS ALONG RTE 209 BY PLANTING GROUPINGS OF NATIVE TREES WITHIN THE CLEARING ALONG THE PROPERTY LINE. USE 3 WHITE PINE (PINUS STROBUS), 3 RED CEDAR (LARIKINUS VIRGINIANA), AND 3 PIN OAK (QUERCUS PALUSTRIS) IN A NATURALISTIC ARRANGEMENT. DISTURB EXISTING GROUND COVER AS LITTLE AS POSSIBLE. SEE GENERAL NOTE 1.

STORMWATER MANAGEMENT BASIN #2 - SEE LIGHTING AND LANDSCAPING DETAIL SHEET 18 FOR BASIN SEEDING SPECIFICATIONS

STORMWATER MANAGEMENT BASIN #1 - SEE LIGHTING AND LANDSCAPING DETAIL SHEET 18 FOR BASIN SEEDING SPECIFICATIONS

Statistical Area Summary

Label	Avg	Max	Min	Avg/Min	Max/Min
PARKING	2.23	7.8	0.3	7.43	26.50
LOADING	2.93	9.4	0.3	9.10	31.33

Fixture	Qty	Label	Arrangement	Lumens	LF/F	Description
OP	11	B	D180°	29500	0.850	WLS-FW-S-250-1PS-TG 18" POLE 2' BASE
OP	15	D	SINGLE	29500	0.850	WLS-FW-S-250-1PS-TG 18" POLE 2' BASE
OP	13	E	SINGLE	29500	0.850	WLS-H-S-3-250-1PS 20' MOUNTING HEIGHT

- LIGHTING NOTES:**
- ALL 18" POLES TO BE MOUNTED ON CONCRETE PEDESTALS 2' ABOVE GRADE, FOR A TOTAL MOUNTING HEIGHT OF LESS THAN 20'.
 - MAINTAIN FOOTCANDLE VALUE AT GRADE, USING A .85 MAINTENANCE FACTOR.
 - LIGHT FIXTURES SHALL BE MANUFACTURED BY MLS LIGHTING SYSTEMS OR APPROVED EQUAL.

PLANT LIST

ABRV	BOTANICAL NAME	COMMON NAME	QTY	SIZE	COND	SPACING	REMARKS
AC	AMELANCHER CANADENSIS	SERVICEBERRY	7	4-5'	B&B	AS SHOWN	MULTI-STEMMED FORM
AG	AMELANCHER GRANDIFLORA 'AUTUMN BRILLIANCE'	'AUTUMN BRILLIANCE' SERVICEBERRY	3	1.5-1.75' CAL	B&B	AS SHOWN	SINGLE-STEMMED FORM
AS	ACER SACCHARINUM 'GREEN MOUNTAIN'	'GREEN MOUNTAIN' SUGAR MAPLE	1	2-2.5' CAL	B&B	AS SHOWN	MULTI-STEMMED - DO NOT PLANT IN FALL
JV	LARIX VIRGINIANA	EASTERN RED CEDAR	22	6-7'	B&B	AS SHOWN	
PA	PICEA ABIES	NORWAY SPRUCE	6	6-7'	B&B	AS SHOWN	
PO	PICEA MARMICA	SERBIAN SPRUCE	10	6-7'	B&B	AS SHOWN	
PS	PINUS STROBUS	EASTERN WHITE PINE	29	6-7'	B&B	AS SHOWN	
QP	QUERCUS PALUSTRIS	PIN OAK	35	2-2.5' CAL	B&B	AS SHOWN	
PO	PICEA GLAUCA	WHITE SPRUCE	3	6-7'	B&B	AS SHOWN	
PSF	PINUS STROBUS/ASTIGATA	COLUMBIA WHITE PINE	9	6-10'	B&B	AS SHOWN	
SB	SPIREA BOUALDA 'ANTHONY WATERER'	'ANTHONY WATERER' SPIREA	12	15-19"	#2 CONT	ON CENTER	
VD	VIBURNUM DENTATUM 'CHICAGO LUSTRE'	'CHICAGO LUSTRE' VIBURNUM	88	2-3'	B&B	AS SHOWN	
PT	PACHYSANDRA 'TERMINALS'	PACHYSANDRA	1,800	2-3'	B&B	AS SHOWN	
CS	CORNUS ALBA SIBERICA	RED TIGR DOGWOOD	35	18-24"	#3 CONT	AS SHOWN	
VD	VIBURNUM DENTATUM 'CHICAGO LUSTRE'	'CHICAGO LUSTRE' VIBURNUM	35	2-3'	B&B	AS SHOWN	

- GENERAL NOTES:**
- TREES TO SOUTH OF FACILITY AND WEST ALONG RTE 209 TO BE LOCATED IN AREAS WHERE NATURAL VEGETATION PROVIDES LIMITED SCREENING.
 - ALL AREAS DISTURBED BY EARTHWORK SHALL BE STABILIZED WITH LAWN OR AS OTHERWISE INDICATED ON THIS PLAN. SEE LANDSCAPING NOTES ON LIGHTING AND LANDSCAPING DETAIL SHEET 18 FOR SEED MIXTURES.
 - REFER TO LIGHTING AND LANDSCAPING DETAIL SHEET 18 FOR LANDSCAPE NOTES AND DETAILS.
 - ALL PLANTS SHALL HAVE A WARRANTY FOR A PERIOD OF ONE YEAR. REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE MISSING, MORE THAN 25% DEAD, WHICH DO NOT DEVELOP FROM PLANTING STOCK, THAT APPEAR UNHEALTHY OR UNSHAPLY AND/OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES. ANY TREE THAT MEETS THESE CRITERIA SHALL BE REPLACED. PLANT MATERIAL SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECTURAL CONSULTANT FOR THE TOWN OR THE PROJECT UPON END OF WARRANTY PERIOD. THE CONSULTANT SHALL SUBMIT AN INSPECTION REPORT TO TOWN AND OWNER AND THE CONTRACTOR WILL BE EXPECTED TO MAKE REPLACEMENTS WITHIN TWO MONTHS FROM RECEIPT OF THE INSPECTION REPORT OR WITHIN TWO MONTHS FROM THE NEXT GROWING SEASON.

REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
1	02/15/08	ISSUE TO THE TOWN	JMK	JMK	JMK

FOR SITE PLAN APPROVAL

KRISTEN M. THORNDIKE
 N.Y.P.E. Lic. No. 069294-1
 Date: 2/15/08

REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
1	02/15/08	ISSUE TO THE TOWN	JMK	JMK	JMK

cornerstone
 A TETRA TECH COMPANY

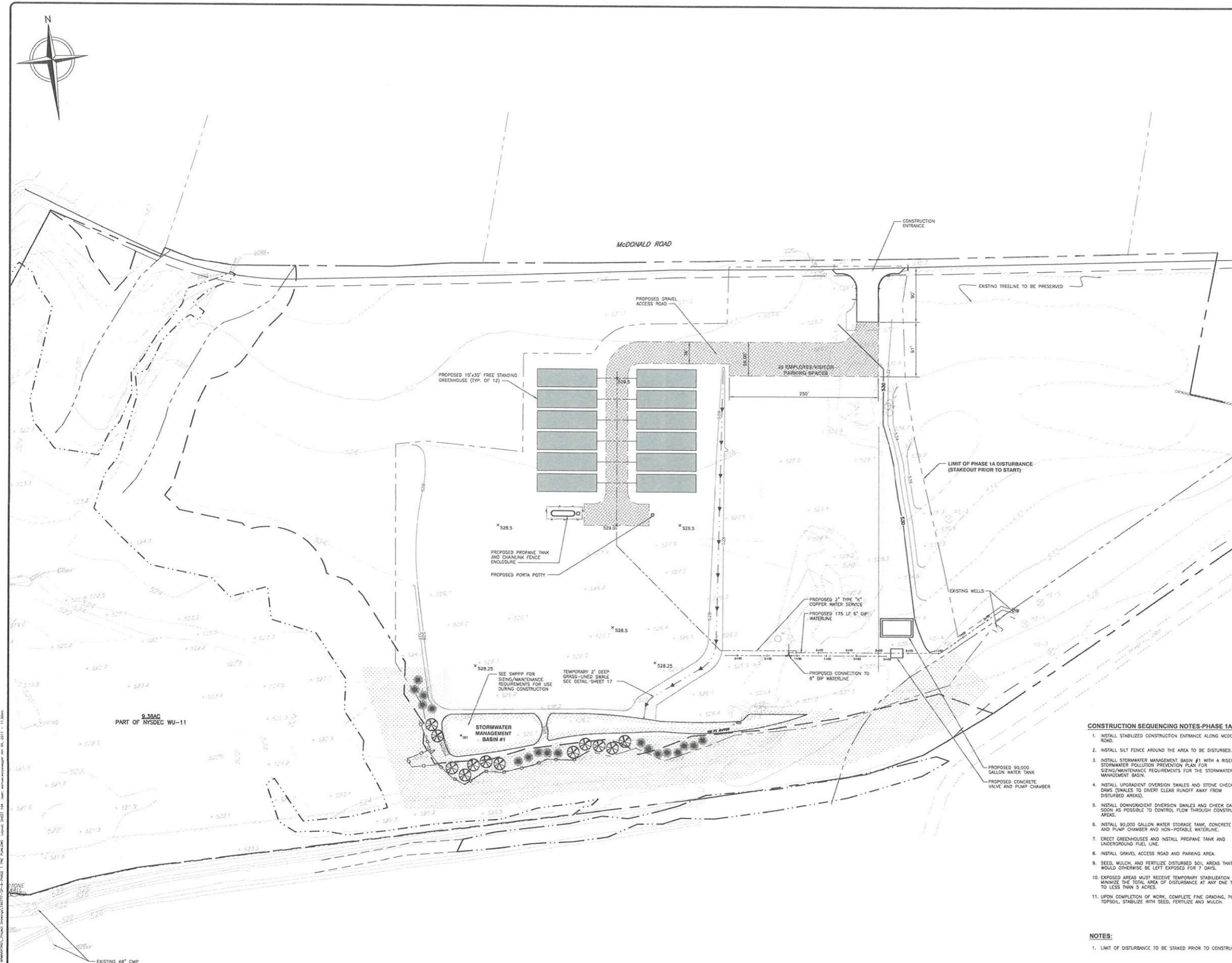
YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

SHEET NO. **9**
 PROJECT NO. 070291

LIGHTING AND LANDSCAPING PLAN

LEGEND:

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	WETLAND LIMIT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF WATER
	EXISTING SPOT GRADE
	EXISTING FENCE
	EXISTING STONE WALL
	EXISTING TREE LINE
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND STORM LINE
	EXISTING HYDRANT
	EXISTING CATCH BASIN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING LIMIT OF EMPIRE ZONE
	PROPOSED STRUCTURE
	PROPOSED 10 FT CONTOUR
	PROPOSED 5 FT CONTOUR
	PROPOSED SPOT GRADE
	PROPOSED WATERLINE
	APPROXIMATE LIMIT OF PHASE 1A DISTURBANCE
	PROPOSED CURBING
	PROPOSED CONCRETE WALK OR PAD
	GRAVEL AREA
	ASPHALT SURFACE
	PROPOSED DECIDUOUS TREES
	PROPOSED CONIFEROUS TREES
	PROPOSED SHRUBS
	LAWN AREA
	MEADOW MIX AREA



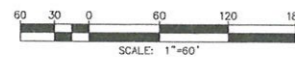
- CONSTRUCTION SEQUENCING NOTES-PHASE 1A**
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE ALONG MCDONALD ROAD.
 2. INSTALL SILT FENCE AROUND THE AREA TO BE DISTURBED.
 3. INSTALL STORMWATER MANAGEMENT BASIN #1 WITH A RISER. SEE STORMWATER POLLUTION PREVENTION PLAN FOR SIZING/MAINTENANCE REQUIREMENTS FOR THE STORMWATER MANAGEMENT BASIN.
 4. INSTALL UPGRADIENT DIVERSION SWALES AND STONE CHECK DAMS (SWALES TO DIVERT CLEAR RUNOFF AWAY FROM DISTURBED AREAS).
 5. INSTALL DOWNGRADIENT DIVERSION SWALES AND CHECK DAMS AS SOON AS POSSIBLE TO CONTROL FLOW THROUGH CONSTRUCTION AREAS.
 6. INSTALL 90,000 GALLON WATER STORAGE TANK, CONCRETE VALVE AND PUMP CHAMBER AND NON-POTABLE WATERLINE.
 7. ERECT GREENHOUSES AND INSTALL PROPANE TANK AND UNDERGROUND FUEL LINE.
 8. INSTALL GRAVEL ACCESS ROAD AND PARKING AREA.
 9. SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS THAT WOULD OTHERWISE BE LEFT EXPOSED FOR 7 DAYS.
 10. EXPOSED AREAS MUST RECEIVE TEMPORARY STABILIZATION TO MINIMIZE THE TOTAL AREA OF DISTURBANCE AT ANY ONE TIME TO LESS THAN 3 ACRES.
 11. UPON COMPLETION OF WORK, COMPLETE FINE GRADING, PLACE TOPSOIL, STABILIZE WITH SEED, FERTILIZE AND MULCH.

NOTES:

1. LIMIT OF DISTURBANCE TO BE STAKED PRIOR TO CONSTRUCTION.

9.3BAC
PART OF NYSDEC WU-11

EXISTING 48" CMP



FOR SITE PLAN APPROVAL

KRISTEN M. HOFFMAN
Professional Engineer
N.Y.P.E. Lic. No. 087294-1
Date: 2/17

REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: 01/10/17
DRAWN BY: SHW
DESIGNED BY: KMT
CHECKED BY: HPT
APPROVED BY: KSC



YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
TOWN OF MAMAKATY, SULLIVAN COUNTY, NEW YORK

PHASE 1A PLAN

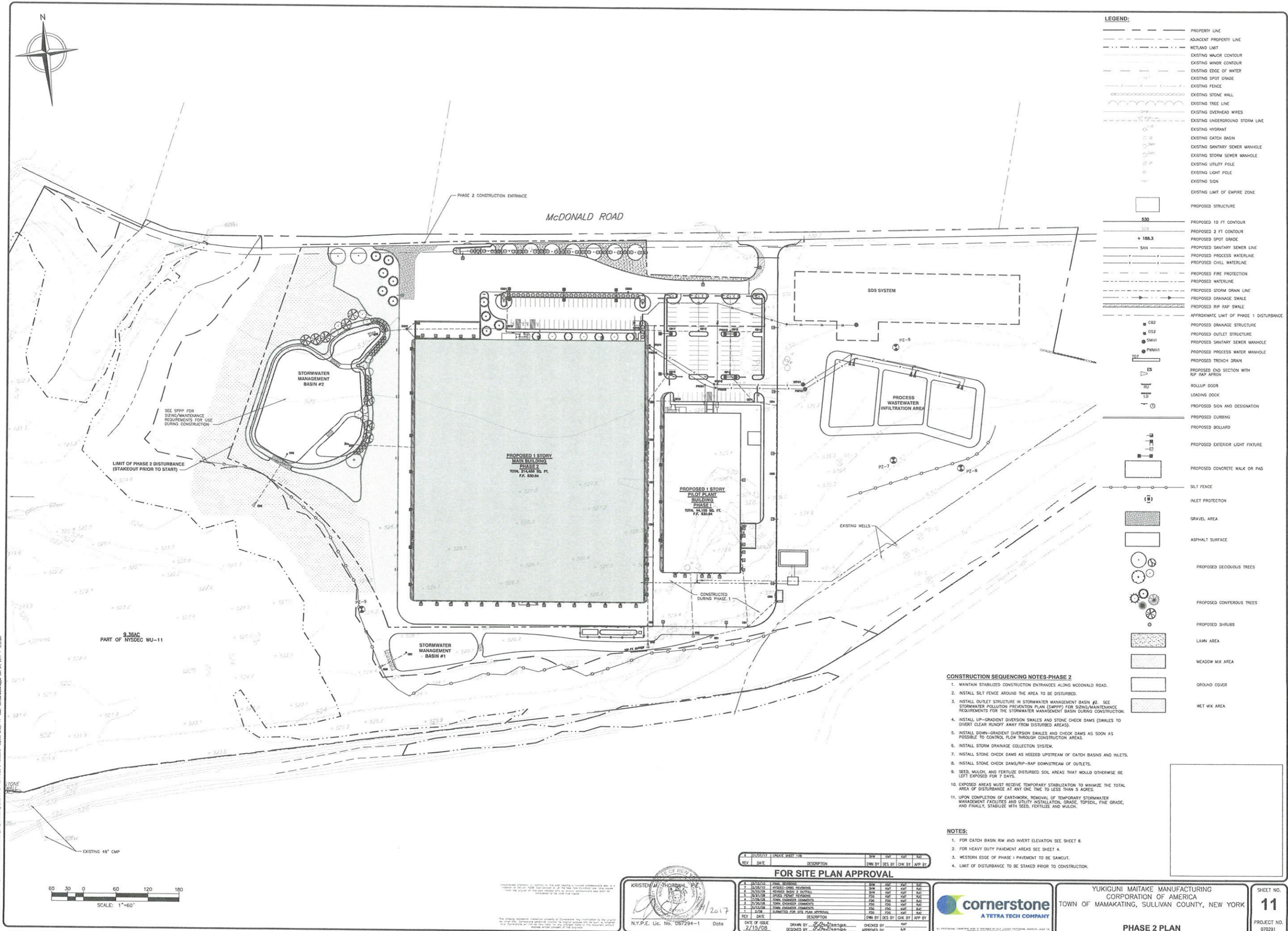
SHEET NO. **10A**
PROJECT NO. 070291

LEGEND:

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	WETLAND LIMIT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING EDGE OF WATER
	EXISTING SPOT GRADE
	EXISTING FENCE
	EXISTING STONE WALL
	EXISTING TREE LINE
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND STORM LINE
	EXISTING HYDRANT
	EXISTING CATCH BASIN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING LIMIT OF EMPIRE ZONE
	PROPOSED STRUCTURE
	PROPOSED 10 FT CONTOUR
	PROPOSED 2 FT CONTOUR
	PROPOSED SPOT GRADE
	PROPOSED SANITARY SEWER LINE
	PROPOSED PROCESS WATER LINE
	PROPOSED CHILL WATER LINE
	PROPOSED FIRE PROTECTION WATER LINE
	PROPOSED STORM DRAIN LINE
	PROPOSED DRAINAGE SWALE
	PROPOSED RIP SWALE
	APPROXIMATE LIMIT OF PHASE 1 DISTURBANCE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED OUTLET STRUCTURE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED PROCESS WATER MANHOLE
	PROPOSED TRENCH DRAIN
	PROPOSED END SECTION WITH RIP APRON
	ROLLUP DOOR
	LOADING DOCK
	PROPOSED SIGN AND DESIGNATION
	PROPOSED CURBING
	PROPOSED BOLLARD
	PROPOSED EXTERIOR LIGHT FIXTURE
	PROPOSED CONCRETE WALK OR PAD
	SILT FENCE
	INLET PROTECTION
	GRAVEL AREA
	ASPHALT SURFACE
	PROPOSED DECIDUOUS TREES
	PROPOSED CONIFEROUS TREES
	PROPOSED SHRUBS
	LAWN AREA
	MEADOW MIX AREA
	GROUND COVER
	WET MIX AREA

- CONSTRUCTION SEQUENCING NOTES-PHASE 2**
1. MAINTAIN STABILIZED CONSTRUCTION ENTRANCES ALONG McDONALD ROAD.
 2. INSTALL SILT FENCE AROUND THE AREA TO BE DISTURBED.
 3. INSTALL OUTLET STRUCTURE IN STORMWATER MANAGEMENT BASIN #2. SEE STORMWATER POLLUTION PREVENTION PLAN (SPPP) FOR SIZING/MAINTENANCE REQUIREMENTS FOR THE STORMWATER MANAGEMENT BASIN DURING CONSTRUCTION.
 4. INSTALL UP-GRADE DIVERSION SWALES AND STONE CHECK DAMS (SWALES TO DIVERT CLEAR RUNOFF AWAY FROM DISTURBED AREAS).
 5. INSTALL DOWN-GRADE DIVERSION SWALES AND CHECK DAMS AS SOON AS POSSIBLE TO CONTROL FLOW THROUGH CONSTRUCTION AREAS.
 6. INSTALL STORM DRAINAGE COLLECTION SYSTEM.
 7. INSTALL STONE CHECK DAMS AS NEEDED UPSTREAM OF CATCH BASINS AND INLETS.
 8. INSTALL STONE CHECK DAMS/RIP-RAP DOWNSTREAM OF OUTLETS.
 9. SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS THAT WOULD OTHERWISE BE LEFT EXPOSED FOR 7 DAYS.
 10. EXPOSED AREAS MUST RECEIVE TEMPORARY STABILIZATION TO MINIMIZE THE TOTAL AREA OF DISTURBANCE AT ANY ONE TIME TO LESS THAN 5 ACRES.
 11. UPON COMPLETION OF EARTHWORK, REMOVAL OF TEMPORARY STORMWATER MANAGEMENT FACILITIES AND UTILITY INSTALLATION, GRADE, TOPSOIL, FINE GRADE, AND FINALLY, STABILIZE WITH SEED, FERTILIZE AND MULCH.

- NOTES:**
1. FOR CATCH BASIN RM AND INVERT ELEVATION SEE SHEET 6.
 2. FOR HEAVY DUTY PAVEMENT AREAS SEE SHEET 4.
 3. WESTERN EDGE OF PHASE 1 PAVEMENT TO BE SAWCUT.
 4. LIMIT OF DISTURBANCE TO BE STAKED PRIOR TO CONSTRUCTION.



FOR SITE PLAN APPROVAL

REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
1	02/15/08	CRACK SHEET 106				

KRISTEN W. HORNDAHL
 N.Y.P.E. Lic. No. 067294-1
 Date: 2/15/08

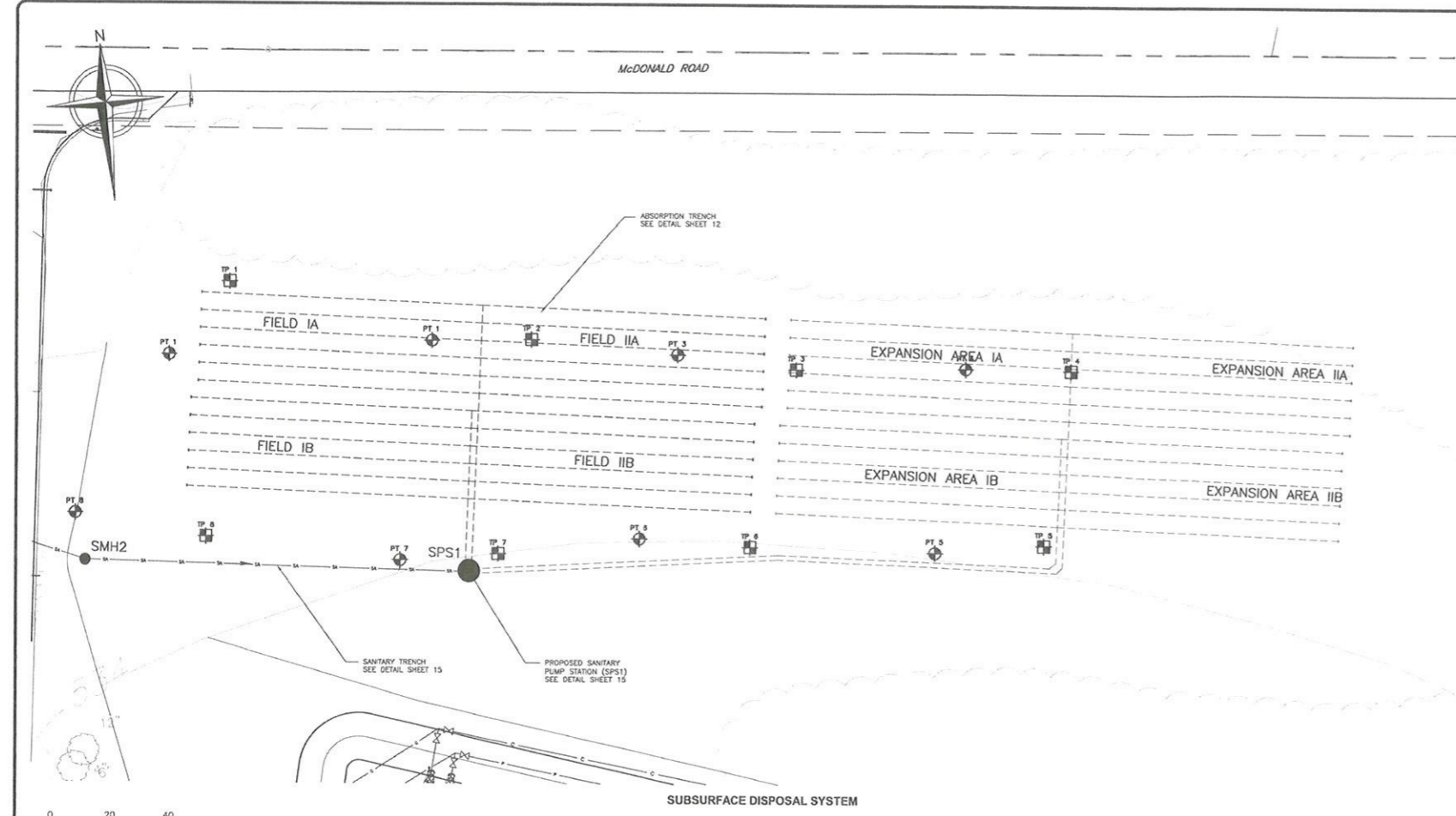
REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
1	11/21/07	FINAL REVISIONS				
2	12/28/07	APPROVED-ORIG REVISIONS				
3	1/22/08	REVISED BASIN 2 DETAIL				
4	1/21/08	UPPER FLOOR REVISIONS				
5	1/22/08	LOWER FLOOR COMMENTS				
6	1/22/08	TOTAL ENGINEER COMMENTS				
7	1/21/08	LOWER FLOOR COMMENTS				
8	1/22/08	SUBMITTED FOR SCL PLAN APPROVAL				

cornerstone
 A TETRA TECH COMPANY

YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

SHEET NO. **11**
 PROJECT NO. 070291

PHASE 2 PLAN

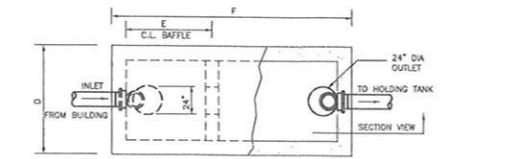
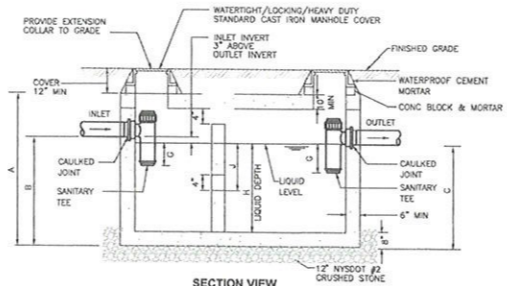


PERC TEST TABLE				DEEP TEST PIT DATA TABLE			
TEST	DURATION	TEST	DURATION	DEPTH (inches)	MATERIAL	DEPTH (inches)	MATERIAL
PT-1	1	PT-7	1	TP-1 - DEPTH 80		TP-7 - DEPTH 98	
1	6 MIN.	1	1 MIN.	0-12	TOPSOIL, SAND, COBBLES	0-12	TOPSOIL, COBBLES
2	7 MIN.	2	2 MIN.	12-48	SAND, COBBLES	12-48	SILTY MIX. COBBLES
3	8 MIN.	3	2 MIN.	48-80	SAND, NO WATER ENCOUNTERED	48-98	SAND, COBBLES, NO WATER ENCOUNTERED
4	NONE PERFORMED	4	5	80-100		98-100	
PT-2		PT-8		TP-2 - DEPTH 80		TP-8 - DEPTH 98	
1	4 MIN.	1	2 MIN.	0-12	TOPSOIL, COBBLES	0-12	TOPSOIL, WITH COBBLES
2	6 MIN.	2	2 MIN.	12-80	CLAY, SAND, GRAVEL, NO WATER ENCOUNTERED	12-98	SILTY SAND, COBBLES, NO WATER ENCOUNTERED
3	8 MIN.	3	2 MIN.				
4	NONE PERFORMED	4	NONE PERFORMED				
PT-3		PT-9		TP-3 - DEPTH 88		TP-9 - DEPTH 98	
1	11 MIN.	1	12 MIN.	0-12	TOPSOIL	0-12	TOPSOIL, COBBLES
2	14 MIN.	2	13 MIN.	12-88	COBBLE, SILTY SAND GRAVEL, NO WATER ENCOUNTERED	12-98	SILTY SAND, COBBLES
3	14 MIN.	3	13 MIN.				
4	12 MIN.	4	NONE PERFORMED				
PT-4		PT-10		TP-4 - DEPTH 88		TP-10 - DEPTH 84	
1	5 MIN.	1	2 MIN.	0-15	TOPSOIL	0-12	SILTY SAND, COBBLES, NO WATER ENCOUNTERED
2	7 MIN.	2	2 MIN.	15-84	SILTY CLAY, COBBLES, NO WATER ENCOUNTERED	12-84	SILTY SAND, COBBLES, NO WATER ENCOUNTERED
3	7 MIN.	3	2 MIN.				
4	8 MIN.	4	NONE PERFORMED				
PT-5		PT-11		TP-5 - DEPTH 98		TP-11 - DEPTH 84	
1	1 MIN.	1	3 MIN.	0-12	TOPSOIL	0-12	TOPSOIL, WITH COBBLES
2	1 MIN.	2	3 MIN.	12-48	SILT, COBBLES	12-84	SILTY SAND, COBBLES, NO WATER ENCOUNTERED
3	1 MIN.	3	3 MIN.	48-98	SANDY, COBBLES, NO WATER ENCOUNTERED	12-84	SILTY SAND, COBBLES, NO WATER ENCOUNTERED
4	NONE PERFORMED	4	NONE PERFORMED				
PT-6		PT-12		TP-6 - DEPTH 88		TP-12 - DEPTH 84	
1	1 MIN.	1	1 MIN.	0-12	TOPSOIL, WITH COBBLES	0-12	TOPSOIL, WITH COBBLES
2	2 MIN.	2	2 MIN.	12-84	SILTY SAND, COBBLES, NO WATER ENCOUNTERED	12-84	SILTY SAND, COBBLES, NO WATER ENCOUNTERED
3	2 MIN.	3	2 MIN.				
4	2 MIN.	4	2 MIN.				

ABSORPTION TRENCH DESIGN CALCULATIONS:
 DESIGN FLOW = 3,840 GPD (BASED ON THE NUMBER OF EMPLOYEES AND PATRONS)
 REQUIRED SEPTIC TANK SIZE: PILOT PLANT = 1,500 GALLONS
 MAIN PLANT = 4,000 GALLONS
 PERCOLATION RATE = 14 MINUTES PER INCH
 APPLICATION RATE = 0.8 GPD/SF (RATE DETERMINED FROM THE DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS TABLE TO (NYSDCC) FOR PERCOLATION RATE OF 15 MINUTES PER INCH.

- SEWAGE DISPOSAL SYSTEM DESIGN NOTES**
- DEEP TEST PITS AND PERCOLATION TESTS WERE PERFORMED BY CORNERSTONE ENVIRONMENTAL GROUP AND WITNESSED BY REPRESENTATIVES OF THE NYSDCC ON 12/21/07.
 - SEPTIC SYSTEM DESIGN IS BASED UPON DESIGN FLOWS FROM NEW STANDARD FIXTURES. NO FOOTING DRAINS OR ROOF DRAINS, WATER SOFTENER BACKWASHES, ETC. SHALL BE ALLOWED TO ENTER THE SYSTEM.
DESIGN FLOW: PILOT PLANT = 880 GPD
MAIN PLANT = 2,960 GPD
TOTAL DESIGN FLOW: 3,840 GPD.
 - IN THE PROPOSED AREA, THE SYSTEM DESIGN IS BASED ON PERCOLATION RATE OF 14 MIN/IN RESULTING IN 2,275 LF OF PERFORATED PIPE IN TWO FEET WIDE TRENCHES.
 - 100% EXPANSION OF THE SEPTIC FIELD IS PROVIDED. IN THE EXPANSION AREA, SYSTEM DESIGN IS BASED ON PERCOLATION RATE OF 14 MIN FOR FIELD IV-VI, RESULTING IN 2,275 LF OF LATERALS AS SHOWN ON THE PLAN.
 - THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE: "RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH"; "NEW YORK STATE DEPARTMENT OF HEALTH FOLDS, PROCEDURES, AND STANDARDS"; "THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DESIGN STANDARDS FOR WASTEWATER TREATMENT WORKS, INTERMEDIATE SIZED SEWAGE FACILITIES, 1988".
 - NO COMPONENT OR PART OF THE SEWAGE DISPOSAL SYSTEM IS TO BE BACKFILLED UNTIL INSPECTED BY THE ENGINEER PERFORMING THE CERTIFICATION AND THE TOWN BUILDING INSPECTOR.
 - FINAL GRADING SHALL BE PERFORMED SO THAT NO SURFACE WATER WILL RUN ON OR COLLECT ON THE INSTALLED SEPTIC SYSTEM.
 - ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
 - HEAVY EQUIPMENT SHALL BE KEPT OFF OF THE ABSORPTION FIELD AREA EXCEPT DURING THE ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDESIRABLE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
 - TRENCHES SHALL NOT BE CONSTRUCTED IN WET SOIL. THE SIDES AND BOTTOM OF TRENCHES MUST BE RAKED. THE ENDS OF THE LATERALS MUST BE CAPPED.
 - SIZES AND BOTTOM OF TRENCHES SHALL BE RAKED IMMEDIATELY PRIOR TO PLACING GRAVEL.
 - THE END OF ALL DISTRIBUTION PIPES SHALL BE PLUGGED.
 - THE LOCATION OF THE SEPTIC FIELD IS TO BE FIELD LOCATED BY A LICENSED NYS SURVEYOR PRIOR TO CONSTRUCTION. THE SEPTIC FIELD MUST BE CONSTRUCTED IN THE AREA SHOWN ON PLAN.
 - THE ENGINEER MUST BE CONTACTED 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, TO SCHEDULE A REVIEW OF THE SEPTIC INSTALLATION.
 - A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES) AT THE TIME OF CONSTRUCTION. THE ENGINEER SHALL CERTIFY TO THE NYSDCC AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS.
 - THE OWNER AND/OR CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE OF THE START OF WORK.
 - ALL PIPES AT STRUCTURES AND CONTACT SURFACES ON SEPTIC TANK & PUMP STATION TO HAVE AN ASPHALTIC SEAL OR ACCEPTABLE EQUAL.
 - SANITARY FACILITIES ARE NOT TO BE RELOCATED OR REDESIGNED WITHOUT REVIEW AND APPROVAL OF NYSDCC.
 - THERE SHALL BE NO REGRADING OR COMPACTING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
 - THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED.
 - ALL WELLS WITHIN 300 FEET OF THIS PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS.
 - NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.
 - THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
 - THE OWNER/APPLICANT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES.
 - SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.
 - PUMP STATIONS/ DOSING CHAMBERS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE.
 - DISTRIBUTION BOXES/ DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.

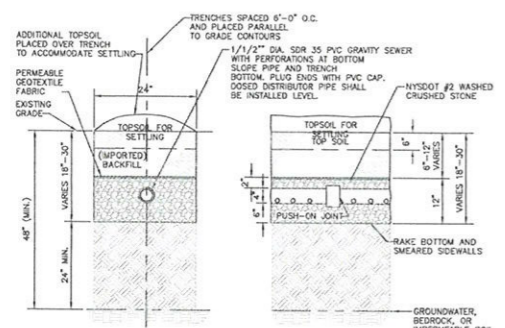
PLAN
SCALE: 1"=20'



NOTES:
 1. SEPTIC TANKS SHALL BE AS MANUFACTURED BY THE WOODARD'S CONCRETE PRODUCTS INC., OR APPROVED EQUIVALENT.
 2. DIMENSIONS SHOWN ARE PER STRUCTURES MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS INC. CO.

TANK SIZE	HEAVY DUTY CONCRETE SEPTIC TANK									
	A	B	C	D	E	F	G	H	J	
1,500 GAL.	5'-11"	5'-11"	9'	5'-11"	38"	10'-9"	5'	49"	24"	
3,000 GAL.	7'-3"	7'-3"	8'	8'-0"	58"	17'-2"	6'	56"	31"	

DETAIL 2
SCALE: NOT TO SCALE



NOTES:
 1. IMPORTED BACKFILL SHALL BE TOPSOIL OR NATURAL RUN OF BANK SAND OR GRAVEL FREE OF ORGANIC MATERIAL AND ELONGATED PARTICLE AND HAVE A MAX. PARTICLE SIZE OF 3/4".

DETAIL 1
SCALE: NOT TO SCALE

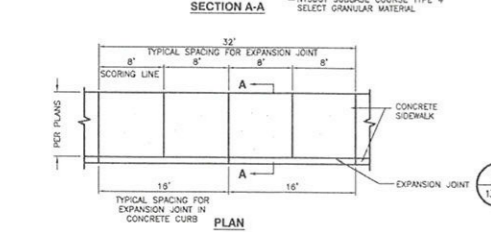
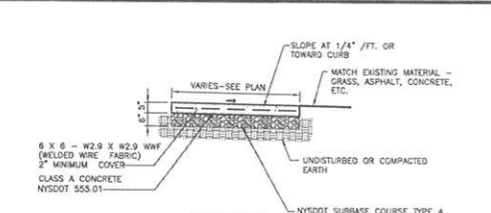
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FOR SITE PLAN APPROVAL

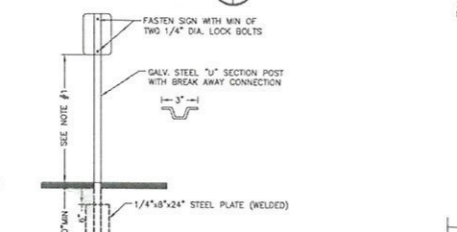
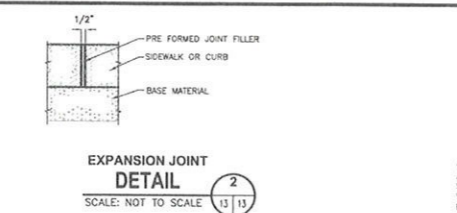


YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK
SUBSURFACE DISPOSAL SYSTEM PLAN AND DETAILS

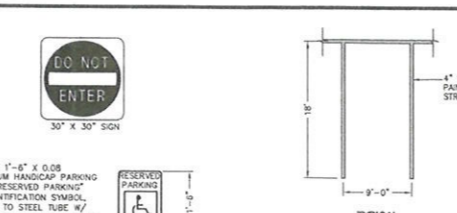
SHEET NO. **12**
 PROJECT NO. 070291



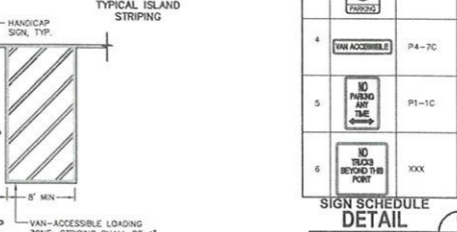
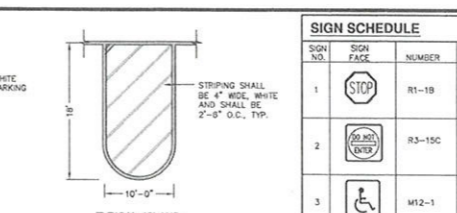
CONCRETE SIDEWALK SCORING AND EXPANSION JOINTS DETAIL
SCALE: NOT TO SCALE 4/13



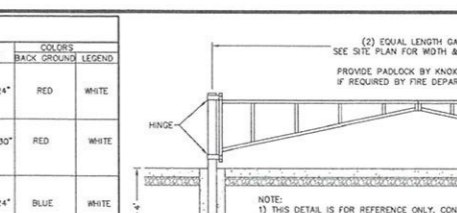
TYPICAL SIGN MOUNTING DETAIL
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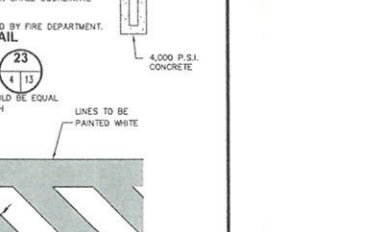
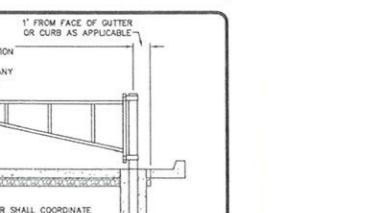
REGULATORY SIGN DETAIL
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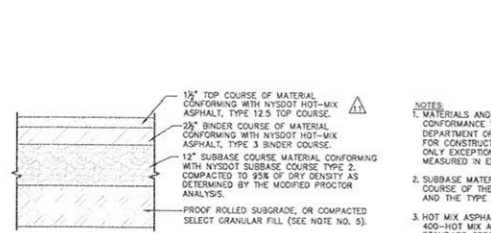
PAVEMENT STRIPING DETAILS
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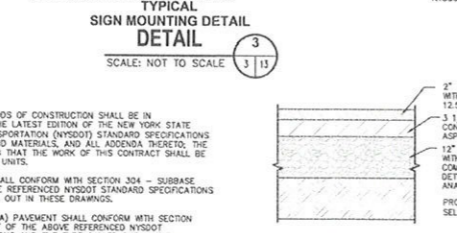
SIGN SCHEDULE DETAIL
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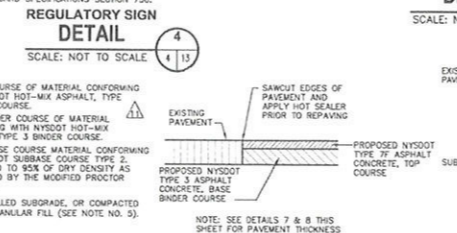
ENTRANCE GATE DETAIL
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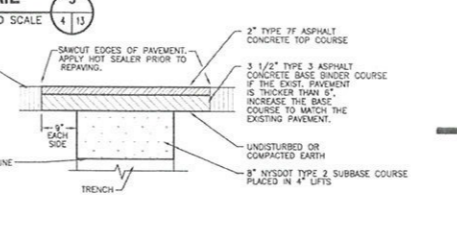
STANDARD DUTY PAVEMENT SECTION DETAIL
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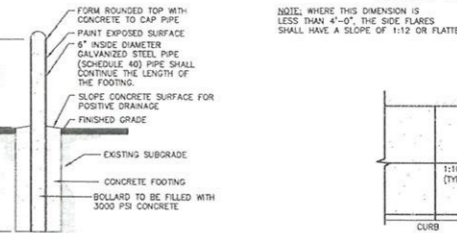
HEAVY DUTY PAVEMENT DETAIL
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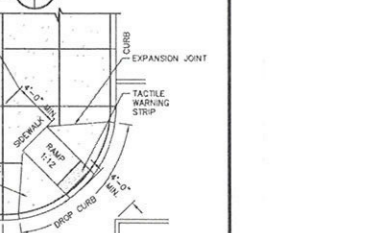
SAW JOINT DETAIL
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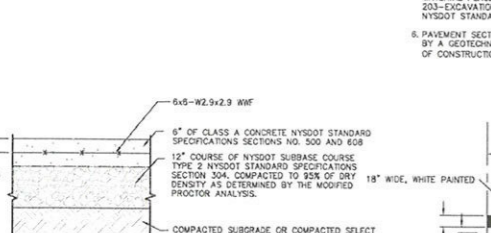
PERMANENT PAVEMENT REPAIR IN TOWN ROAD DETAIL
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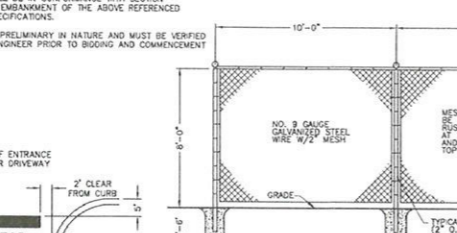
STEEL & CONCRETE BOLLARD DETAIL
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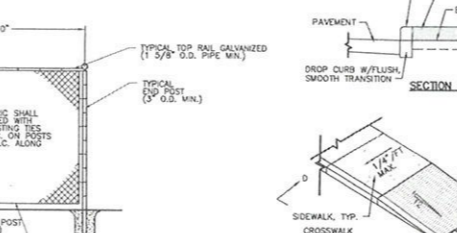
DIAGONAL PEDESTRIAN RAMP WITH FLARED SLOPES DETAIL
SCALE: NOT TO SCALE 4/13



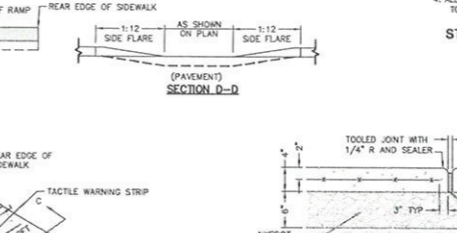
CONCRETE DRIVEWAY APRON DETAIL
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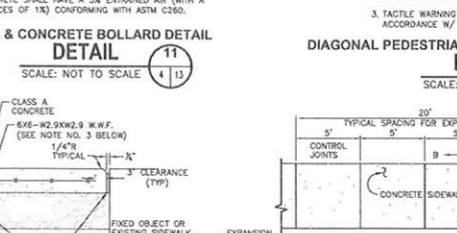
STOP BAR DETAIL
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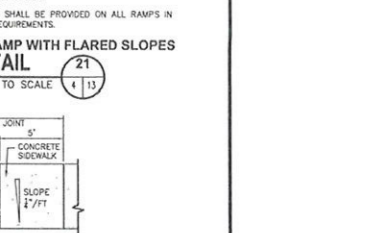
8 FT. CHAINLINK FENCE DETAIL
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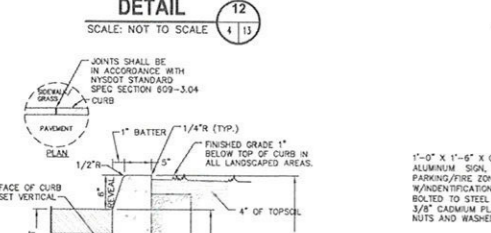
PEDESTRIAN RAMP SECTION - DROP CURB TYPE 2 DETAIL
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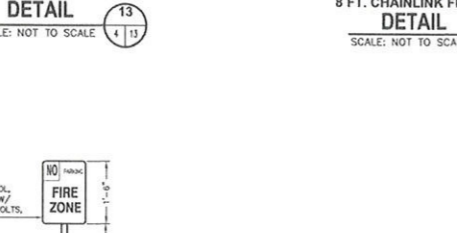
EXPANSION JOINT DETAIL
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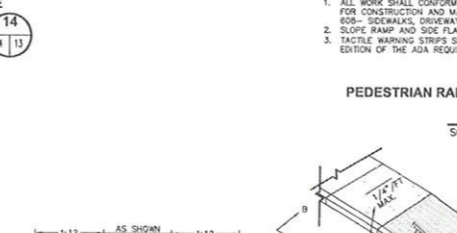
CONCRETE SIDEWALK DETAIL
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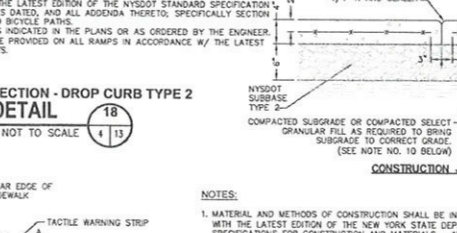
CAST IN PLACE CONCRETE CURB DETAIL
SCALE: NOT TO SCALE 4/13



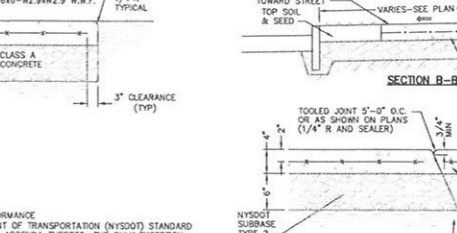
NO PARKING/FIRE ZONE SIGN DETAIL
SCALE: NOT TO SCALE 4/13



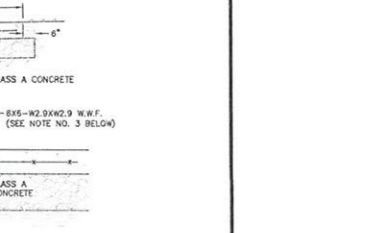
NO PARKING STRIPING DETAIL
SCALE: NOT TO SCALE 4/13



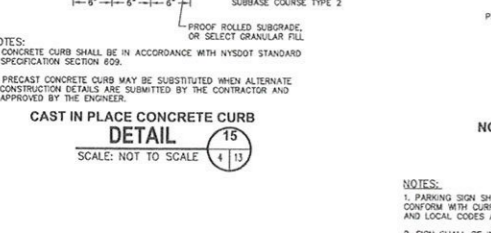
PEDESTRIAN RAMP SECTION - DROP CURB TYPE 1 DETAIL
SCALE: DETAIL 4/13



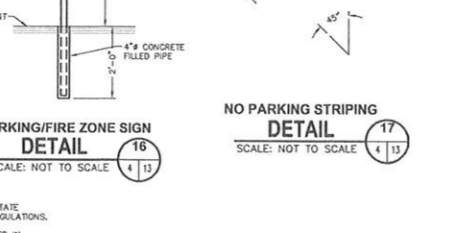
CONSTRUCTION JOINT DETAIL
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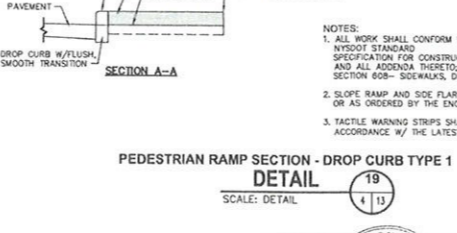
CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE 4/13



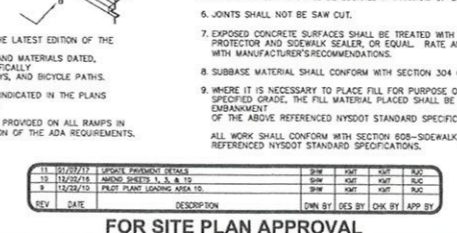
CONCRETE SIDEWALK DETAIL
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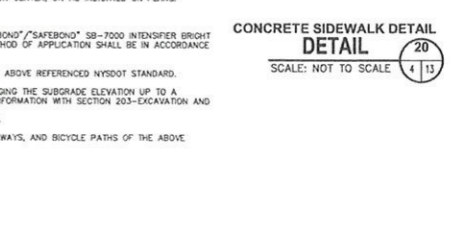
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SCALE: NOT TO SCALE 4/13



CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE 4/13



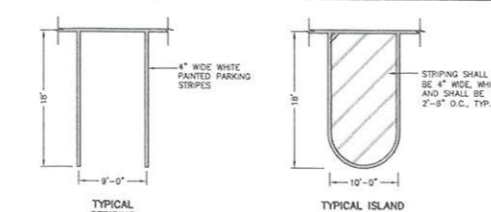
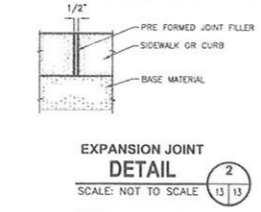
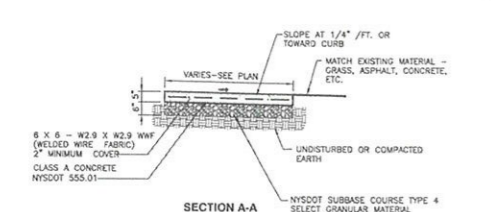
CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE 4/13



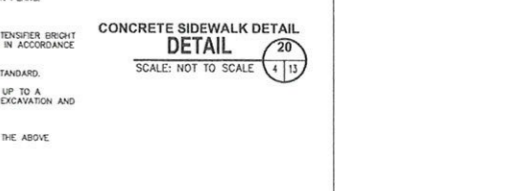
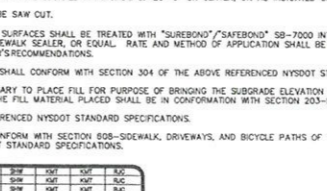
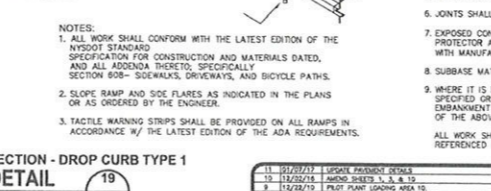
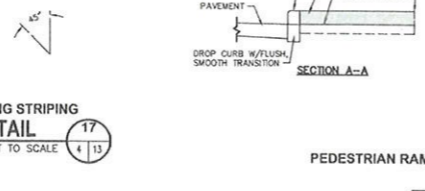
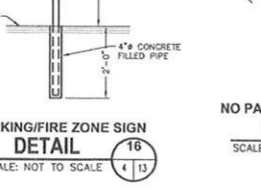
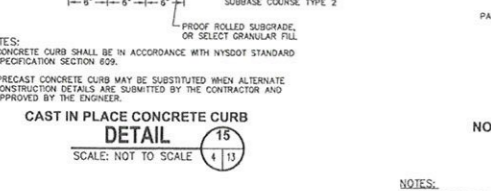
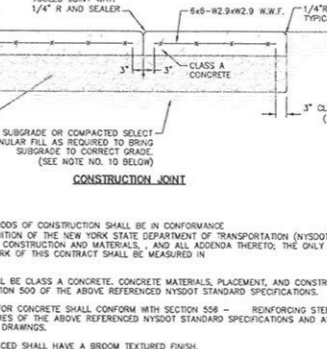
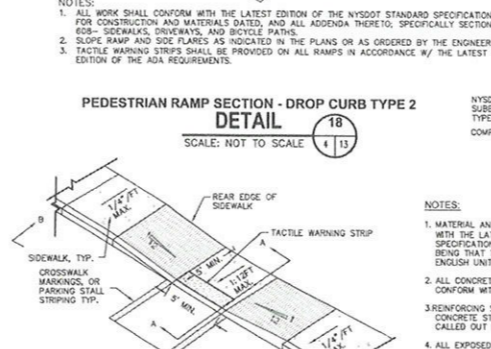
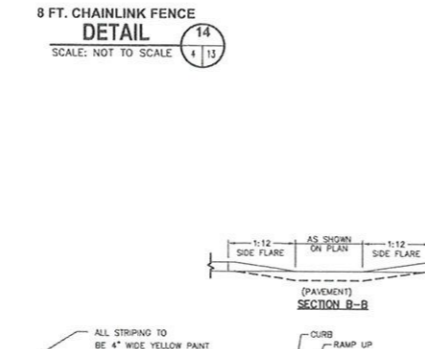
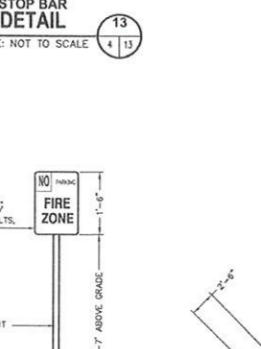
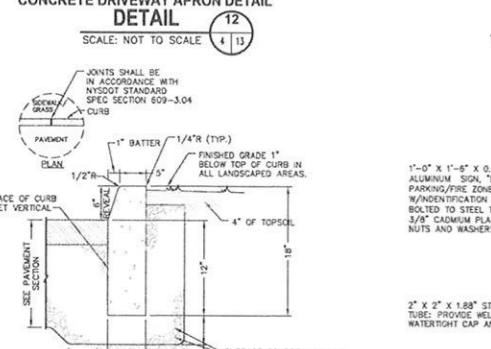
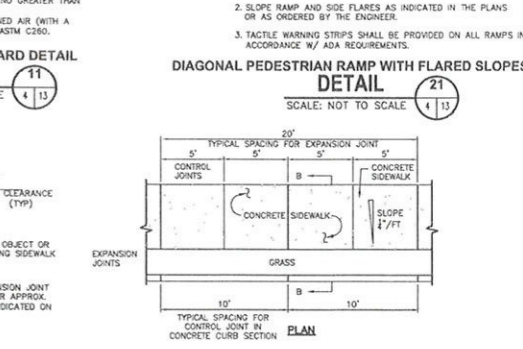
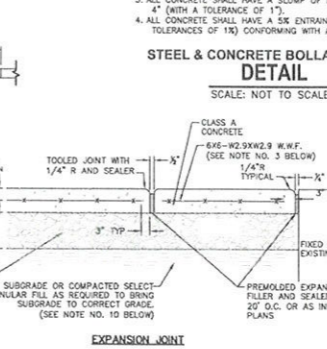
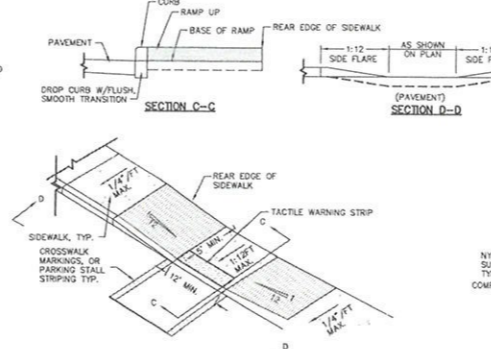
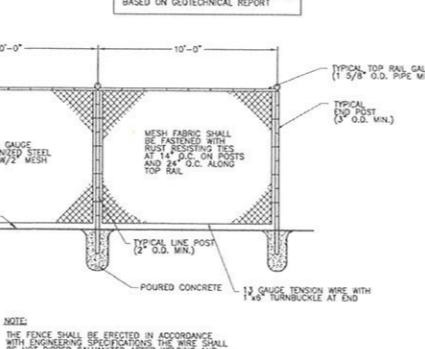
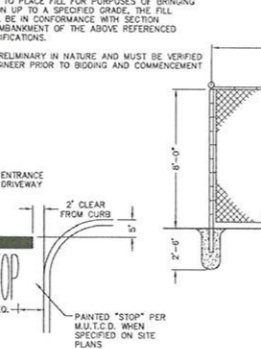
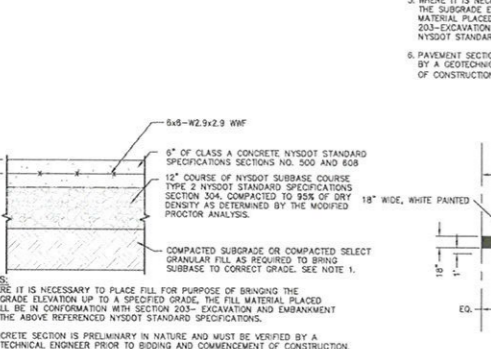
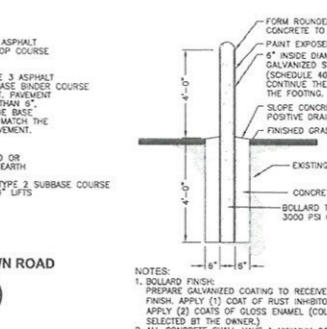
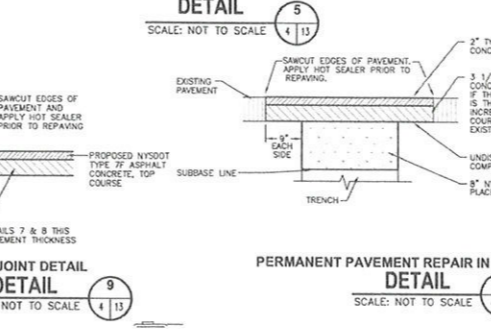
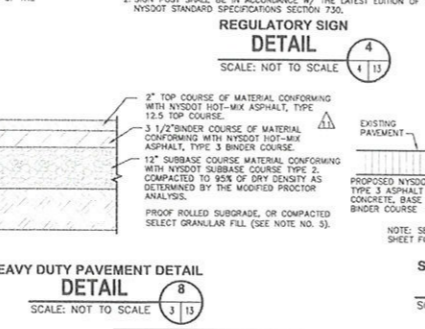
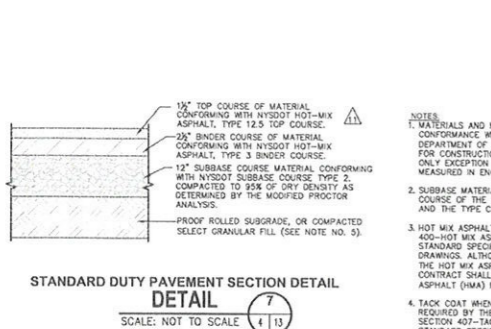
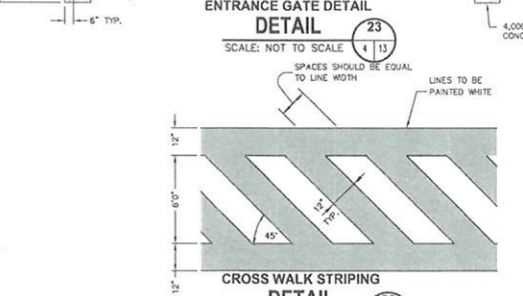
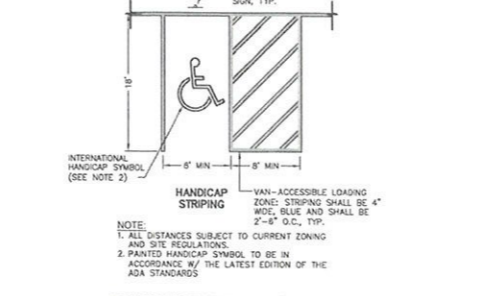
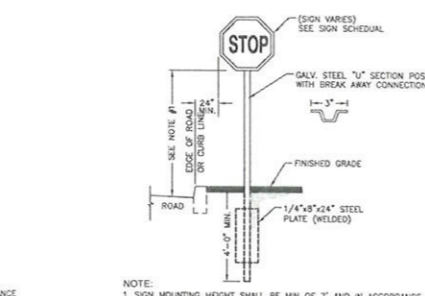
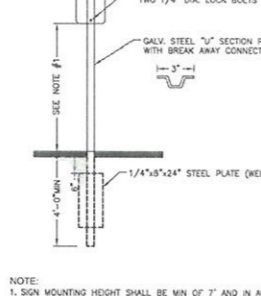
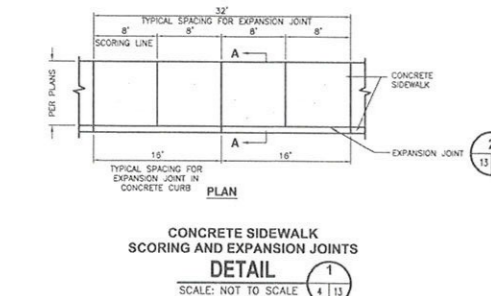
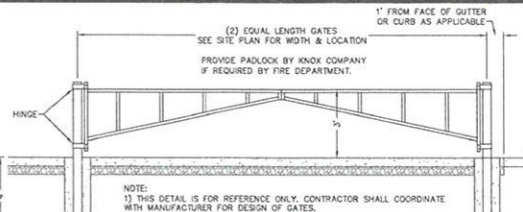
CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE 4/13



CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE 4/13



SIGN NO.	SIGN FACE	NUMBER	SIZE	BKGRND	LEGEND
1	STOP	R1-1B	24"x24"	RED	WHITE
2	NO ENTRY	R3-15C	30"x30"	RED	WHITE
3	WHEELCHAIR ACCESSIBLE	M12-1	24"x24"	BLUE	WHITE
4	VAN ACCESSIBLE	P4-7C	12"x6"	WHITE	BLUE
5	NO PARKING	P1-1C	12"x18"	WHITE	RED
6	NO STOPPING	XXX	12"x18"	WHITE	BLACK



SIGNAGE AND PAVEMENT MARKING NOTES:
 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 840 AND THE CODES, RULES AND REGULATIONS OF THE STATE OF NEW YORK (NYCRR) TITLE 17-THE STATE ENGINEER'S OFFICE, CHAPTER 1 VARIOUS TRAFFIC CONTROL DEVICES.
 2. STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

FOR SITE PLAN APPROVAL

REVISIONS

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY
1	11/11/17	FINAL PROGRESS	SRW	SRW	ASL
2	11/14/17	NYSDOT STANDARD SPECIFICATIONS	SRW	SRW	ASL
3	11/28/17	CONCRETE SIDEWALK	SRW	SRW	ASL
4	12/1/17	ASPHALT STRIPING	SRW	SRW	ASL
5	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
6	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
7	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
8	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
9	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
10	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
11	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL
12	12/1/17	CONCRETE DRIVEWAYS	SRW	SRW	ASL

DATE OF DATE
 2/15/18

DRWN BY
 SRW

DESIGNED BY
 SRW

DECKED BY
 ASL

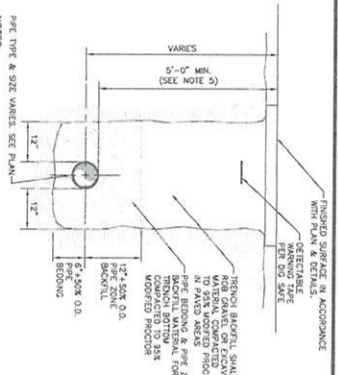
APPROVED BY
 ASL

YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

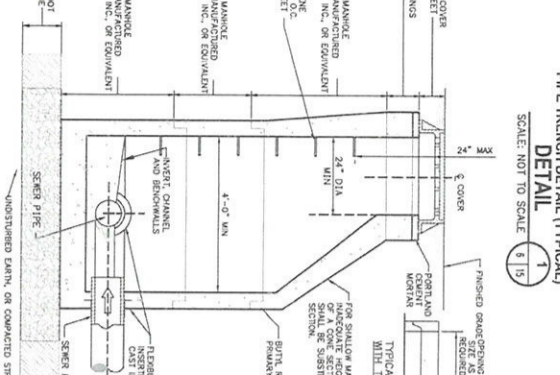
SHEET NO.
 13

PROJECT NO.
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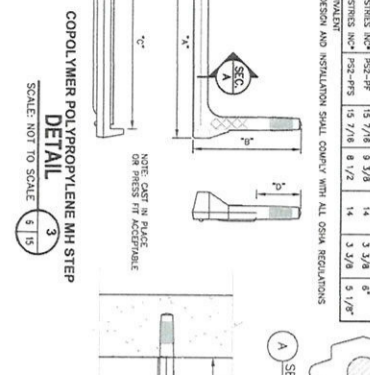
PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE 1/4\"/>



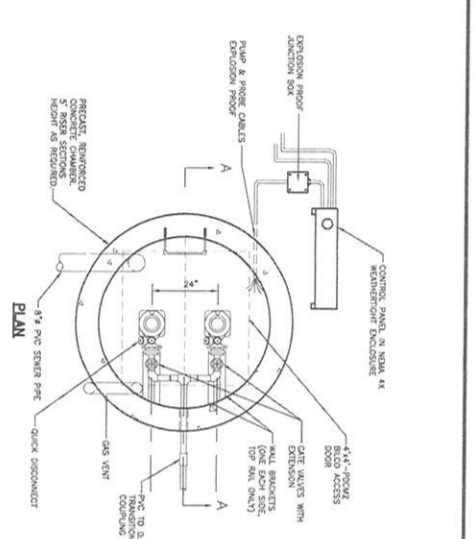
ACCEPTABLE MANHOLE FRAMES & COVER
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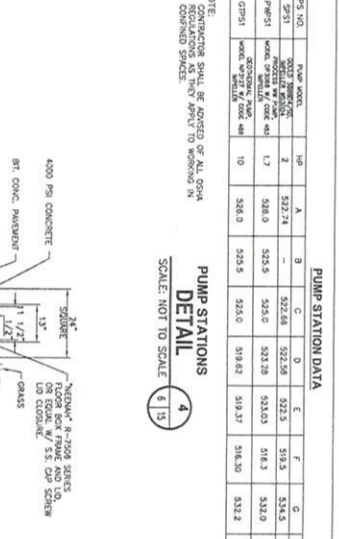
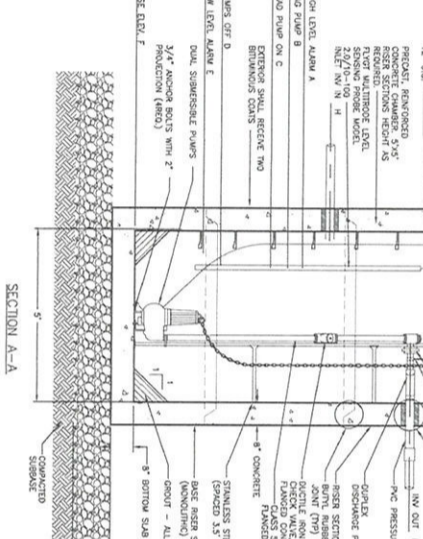
CLEAN OUT DETAIL
SCALE: NOT TO SCALE 1/4\"/>



COPOLYMER POLYPROPYLENE MH STEP DETAIL
SCALE: NOT TO SCALE 1/4\"/>



PUMP STATIONS DETAIL
SCALE: NOT TO SCALE 1/4\"/>



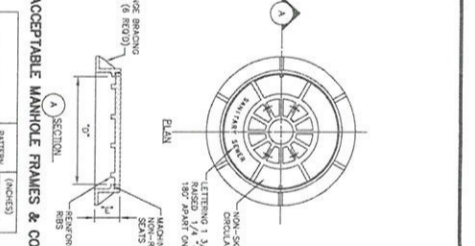
ACCEPTABLE MANHOLE STEPS
SCALE: NOT TO SCALE 1/4\"/>



HEAVY DUTY STANDARD CAST IRON MH COVER
SCALE: NOT TO SCALE 1/4\"/>

NOTES:

1. ALL UTILITY TRENCHES SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER AND CERTIFICATES OF APPROVAL OF OPERATOR.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND THE DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. UNDETECTED UTILITIES SHALL BE REVEALED AND LOCATIONS AS SHOWN ON THESE PLANS ARE CORRECT. NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.
3. ALL SANITARY TRENCHES SHALL BE 36\"/>



UTILITY NOTES
SCALE: NOT TO SCALE 1/4\"/>

GENERAL NOTES:

1. ALL UTILITY TRENCHES SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER AND CERTIFICATES OF APPROVAL OF OPERATOR.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND THE DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. UNDETECTED UTILITIES SHALL BE REVEALED AND LOCATIONS AS SHOWN ON THESE PLANS ARE CORRECT. NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.
3. ALL SANITARY TRENCHES SHALL BE 36\"/>



FOR SITE PLAN APPROVAL
SCALE: NOT TO SCALE 1/4\"/>

FOR SITE PLAN APPROVAL
SCALE: NOT TO SCALE 1/4\"/>



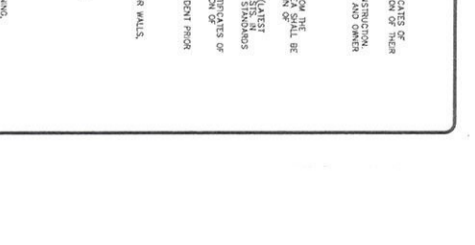
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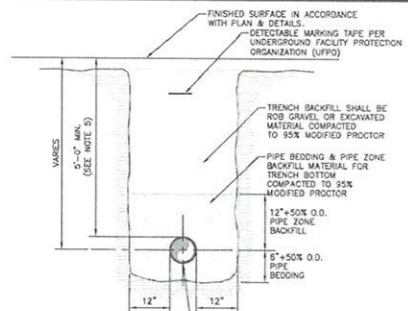
STORMWATER
SCALE: NOT TO SCALE 1/4\"/>

STORMWATER
SCALE: NOT TO SCALE 1/4\"/>



TELEPHONE, ELECTRIC, CABLE & GAS
SCALE: NOT TO SCALE 1/4\"/>

TELEPHONE, ELECTRIC, CABLE & GAS
SCALE: NOT TO SCALE 1/4\"/>



TYPICAL END SECTION

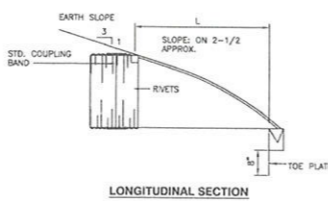
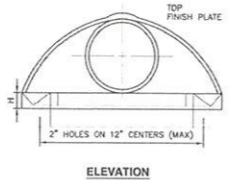
TABLE OF DIMENSIONS

PIPE DIA.	GAGE	DIMENSION (WITH TOLERANCE)				
		A	B	H	1-1/2"	2"
12"	16"	8"	8"	6"	21"	24"
15"	16"	7"	8"	6"	28"	30"
18"	16"	8"	10"	6"	31"	36"
21"	16"	9"	12"	6"	35"	42"
24"	16"	10"	13"	6"	41"	48"
30"	14"	12"	15"	8"	51"	60"
36"	14"	14"	19"	9"	60"	72"

PIPE TYPE & SIZE VARIES. SEE PLAN.

NOTES:

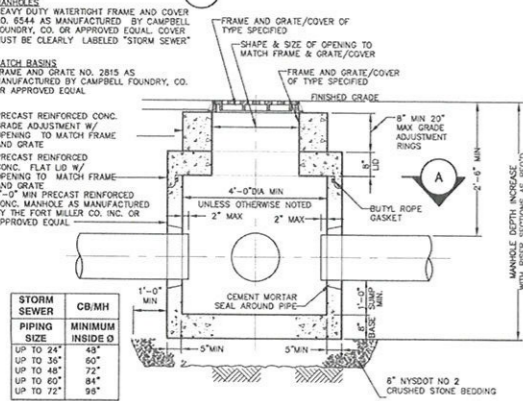
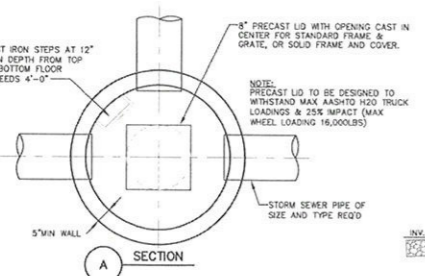
- PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
SIEVE DESIGNATION: 3/4" 100%
NO. 40 70%
NO. 200 0-10%
- TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:
SIEVE DESIGNATION: 4" 100%
NO. 40 70%
NO. 200 0-10%
- IN UNPAVED AREAS TRENCH BACKFILL CAN BE SUITABLE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER.
- INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 4" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
- TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
- 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.



TYPICAL END SECTION CIRCULAR CORRUGATED HDPE PIPE

DETAIL 2
SCALE: NOT TO SCALE

PIPE TRENCH
DETAIL 1
SCALE: NOT TO SCALE

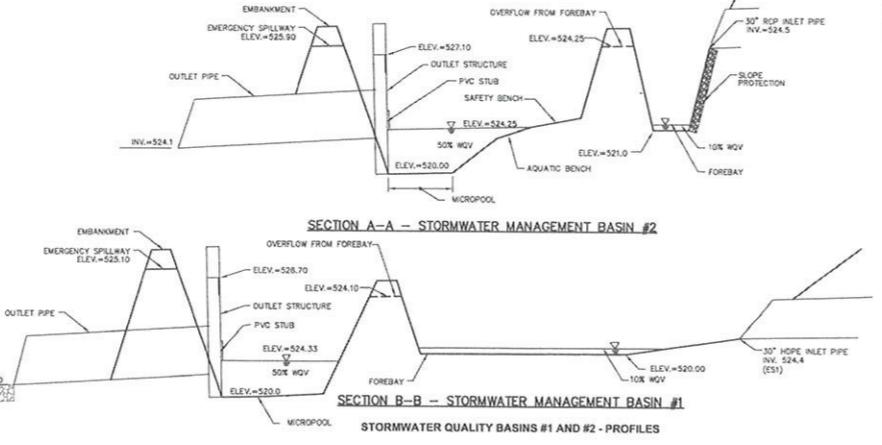


TYPICAL SECTION

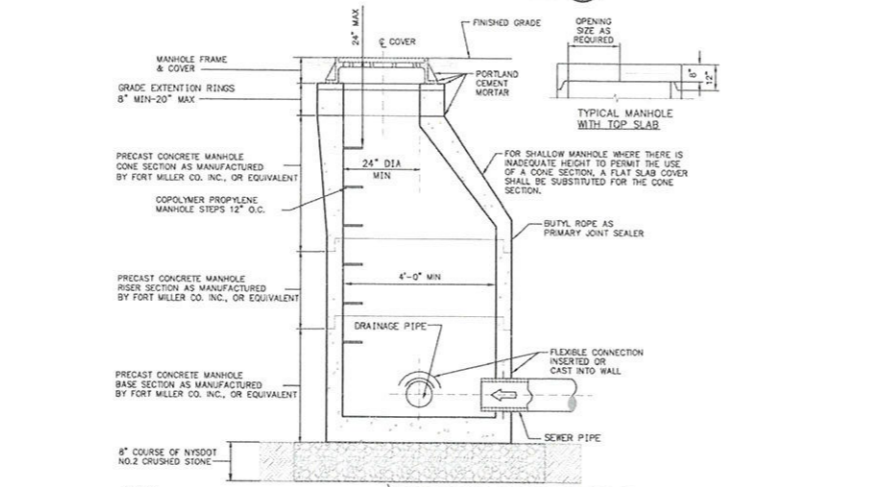
NOTES:

- ALL PRECAST CONSTRUCTION IN ACCORDANCE WITH ASTM C478.
- CATCH BASIN SHALL BE PRECAST CONCRETE, DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
- FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING & 25% IMPACT.
- CONCRETE CATCH BASIN CASTING CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION.
- CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
- BACKFILL USING TRENCH BACKFILL, COMPACTED IN 6" LIFTS.
- SUMPS FOR CATCH BASINS SHALL BE 12" DEEP.
- ECCENTRIC CONE TOP CAN BE USED FOR MANHOLES DEPTH GREATER THAN 7 FEET.

CATCH BASIN
DETAIL 5
SCALE: NOT TO SCALE



DETAIL 6
SCALE: NOT TO SCALE



NOTES:

1. USE ONLY NET-CAST UNITS. DRY-CAST NOT ACCEPTABLE.

CONE DIMENSIONS	
DIAM. OPENING	HEIGHT
24"	24" OR 42"
30"	34"

DETAIL 7
SCALE: NOT TO SCALE

PRECAST CONCRETE MANHOLE
DETAIL 8
SCALE: NOT TO SCALE

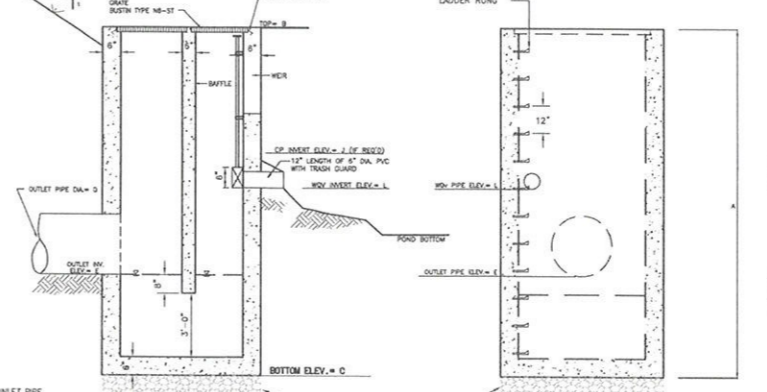
FOR SITE PLAN APPROVAL

REV.	DATE	DESCRIPTION	BY	CHK	APP
11	02/27/12	ADD 8" RIP-RAP & TRUCK WASHOUT	SM	SM	SM
12	03/22/12	AMEND SHEETS 1, 3, & 10	SM	SM	SM
13	03/22/12	FINAL PLAN LAYOUT AREA	SM	SM	SM

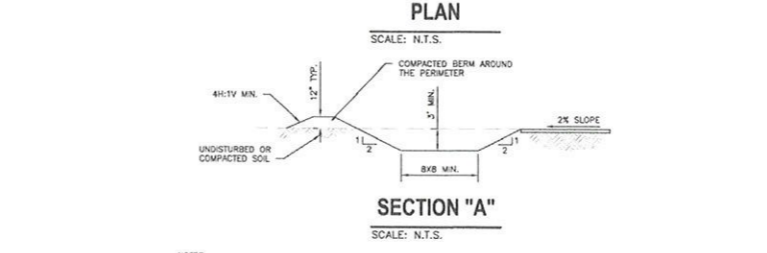
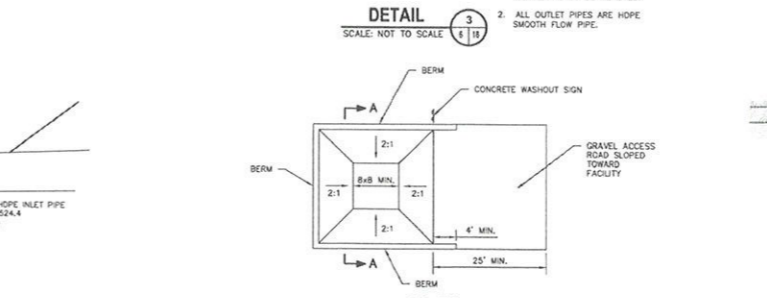
DATE OF ISSUE: 2/15/08
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

OUTLET STRUCTURE DIMENSIONS

OUTLET STRUCTURE #1	OUTLET STRUCTURE #2	
A. STRUCTURE HEIGHT (FT.) (ITEM B - ITEM C)	7.14	7.50
B. TOP GRATE ELEVATION (FT.)	528.70	527.10
C. STRUCTURE BOTTOM ELEVATION (FT.)	519.58	519.56
D. OUTLET PIPE DIAMETER (IN.)	6	12
E. OUTLET PIPE INVERT ELEVATION (FT.)	524.33	524.25
F. TOTAL WEIR WIDTH (FT.)	N/A	N/A
G. WEIR CENTER INVERT ELEVATION (FT.)	N/A	N/A
H. O.P. GRATE DIAMETER (IN.)	N/A	N/A
I. O.P. GRATE INVERT ELEVATION (FT.)	N/A	N/A
J. HWY GRATE DIAMETER (IN.)	3	4
K. HWY INVERT ELEVATION (FT.)	524.33	524.25
L. POND BOTTOM ELEVATION (FT.)	520.00	520.00
M. POND DRAIN DIAMETER (IN.)	NA	NA
N. POND DRAIN DIAMETER (IN.)	NA	NA



OUTLET STRUCTURE
DETAIL 3
SCALE: NOT TO SCALE



NOTES:

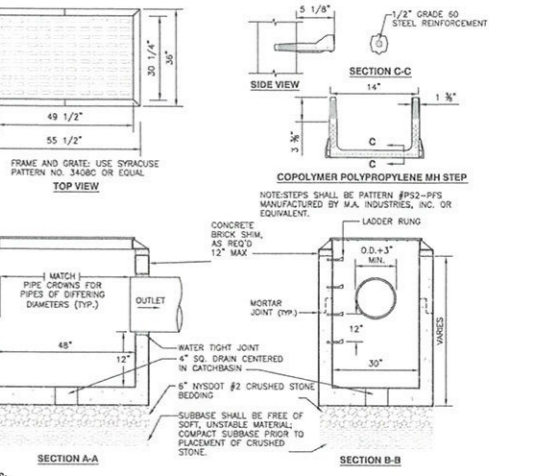
- LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATER.
- PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD.
- PROVIDE A GRAVEL ACCESS ROAD TO FACILITY THAT IS SLOPED DOWN TO FACILITY.
- SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.
- ALL WASHOUT FACILITIES SHALL BE LINED TO PREVENT LEAKING OF LIQUIDS INTO THE GROUND. THE LINER SHALL BE PLASTIC SHEETING HAVING A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS, AND ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCES EXCEPT AT THE ACCESS POINT.
- PREFABRICATED WASHOUT FACILITIES CAN BE USED BUT THEY MUST CAPTURE AND CONTAIN CONCRETE WASH AND BE SIMILARLY SIZED AS SHOWN ABOVE AND LOCATED AS NOTED ABOVE.
- WASH WATER IS ESTIMATED TO BE 7 GALLONS PER CHUTE AND 30 GALLONS PER HOPPER OF A PUMP TRUCK AND/OR DISCHARGING SHOV.

MAINTENANCE:

- ALL FACILITIES MUST BE INSPECTED DAILY.
- DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
- EXCESS ACCUMULATED RAINWATER OVER HARDENED CONCRETE SHALL BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.
- ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE FACILITY IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAMINANT RESIL. AND PROPERLY DISPOSED OF OFF-SITE AT A PERMITTED C&D LANDFILL. NO ON-SITE DISPOSAL WILL BE ALLOWED.
- THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE FACILITY.
- INSPECT PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

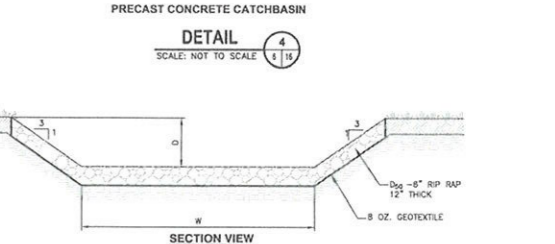
STORM SEWER NOTES:

- ALL STORM WATER MANAGEMENT STRUCTURES (I.E. CATCH BASIN, ETC.) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH BASINS SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF 1/2 THE AVAILABLE SLUMP DEPTH.
- IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT (A.K.A. SLUMP PIT) TO TRAP AND FILTER WATER FOR PUMPING TO A SUITABLE DISCHARGE AREA. THE DEWATERING PIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- ALL EROSION CONTROL MEASURES EMPLOYED DURING THE CONSTRUCTION PROCESS SHALL BE AS OUTLINED ON THE EROSION AND SEDIMENT CONTROL PLANS, DETAILS AND NOTES.



NOTES:

- CATCH BASIN SHALL BE PRECAST CONCRETE, DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
- FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING & 25% IMPACT.
- CONCRETE CATCH BASIN CASTING CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION.
- CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
- BACKFILL USING TRENCH BACKFILL, COMPACTED IN 6" LIFTS.
- SUMPS FOR CATCH BASINS SHALL BE 12" DEEP.
- PRECAST CONCRETE CATCH BASIN SECTIONS AS MANUFACTURED BY THE FORT MILLER CO. OR APPROVED EQUAL.



SOMB

SOMB	W (FT.)	D (FT.)
1	40	0.8
2	45	1.1

NOTE:

- EXTEND RIP-RAP A MINIMUM OF 5 FT. BEYOND TOE OF BERM.

Dig Safely. New York

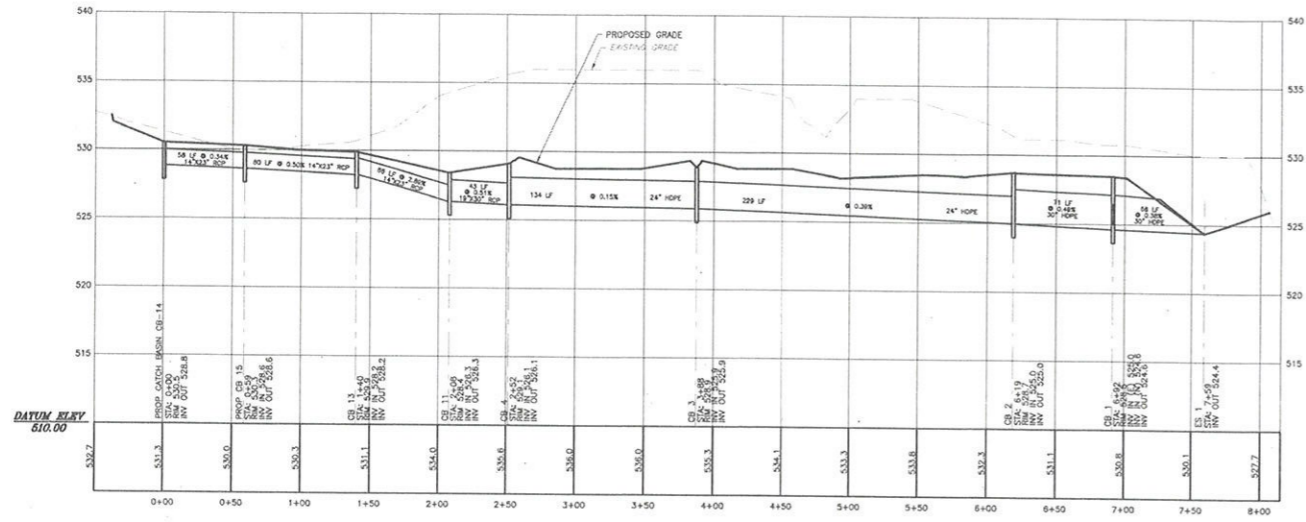
Call 811

before you dig

YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK

cornerstone
A TETRA TECH COMPANY

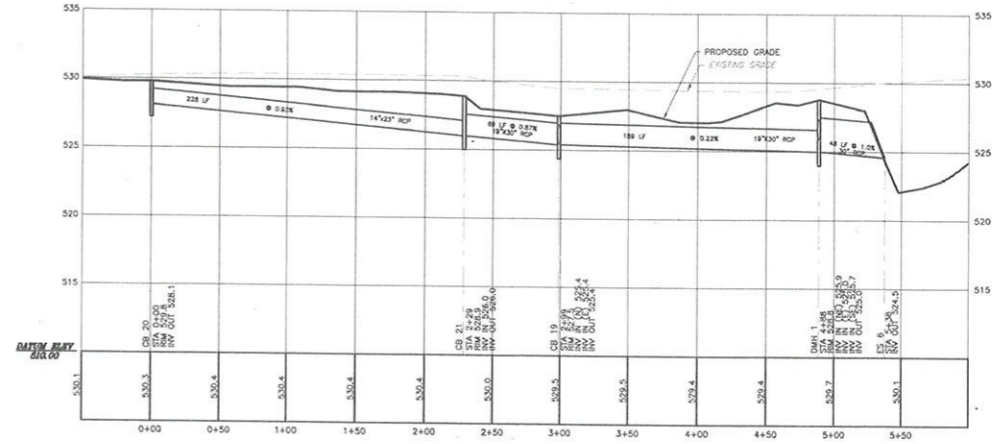
SHEET NO. **16**
PROJECT NO. 070291



STORM SEWER LINE A (CB-14 TO ES-1)

PROFILE

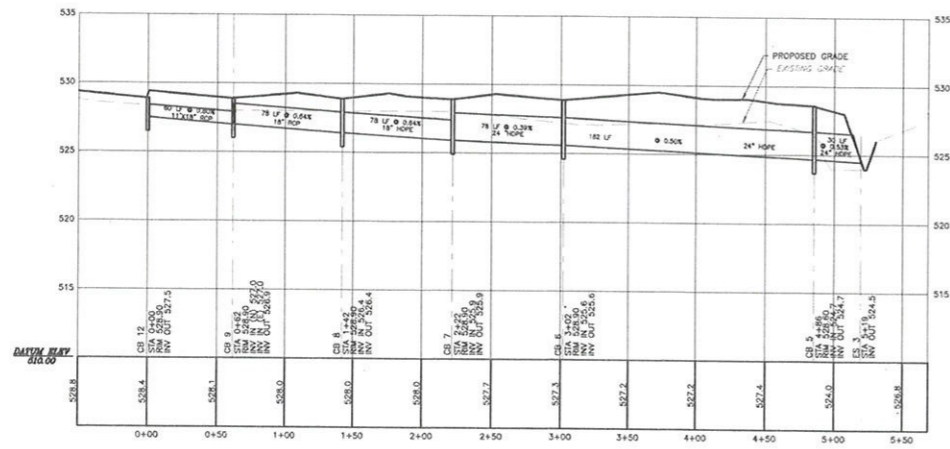
SCALE: 1"=50' (H)
1"=5' (V)



STORM SEWER LINE C (CB-20 TO ES-6)

PROFILE

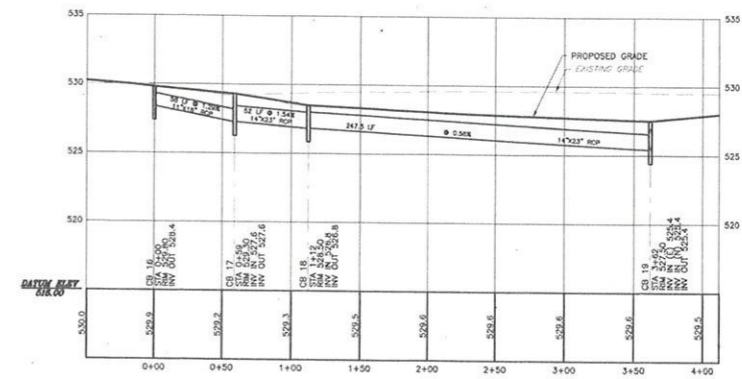
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1"=5' (V)



STORM SEWER LINE B (CB-12 TO ES-3)

PROFILE

SCALE: 1"=50' (H)
1"=5' (V)



STORM SEWER LINE D (CB-16 TO CB-19)

PROFILE

SCALE: 1"=50' (H)
1"=5' (V)

1" = 50' (H)
 1" = 5' (V)
 PROJECT: 070221
 SHEET: 13 OF 13
 DATE: 2/15/08

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	02/15/08	FOR SITE PLAN APPROVAL				

FOR SITE PLAN APPROVAL

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	02/15/08	FOR SITE PLAN APPROVAL				

KRISTEN M. THORNDYK, P.E.
 N.Y.P.E. Lic. No. 067294-1
 Date: 2/15/08



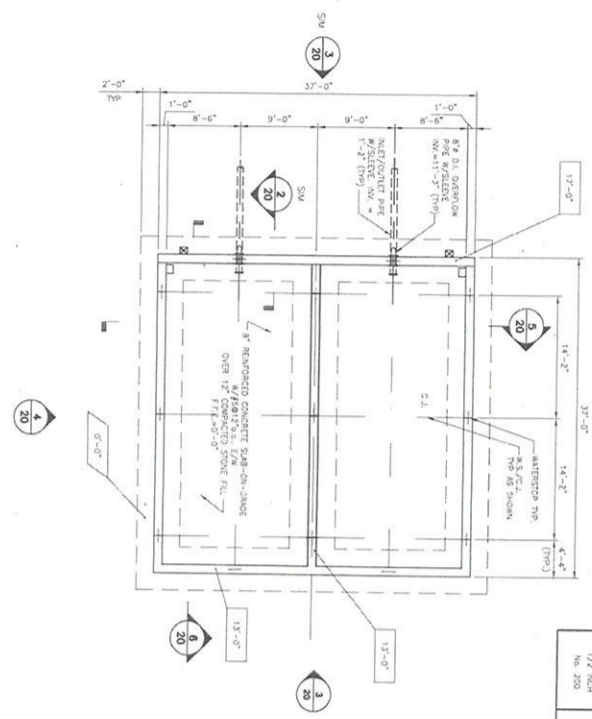
YUKIGUNI MAITAKE MANUFACTURING CORPORATION OF AMERICA
 TOWN OF MAMAKATING, SULLIVAN COUNTY, NEW YORK
STORM SEWER PROFILES

SHEET NO. **19**
 PROJECT NO. 070221



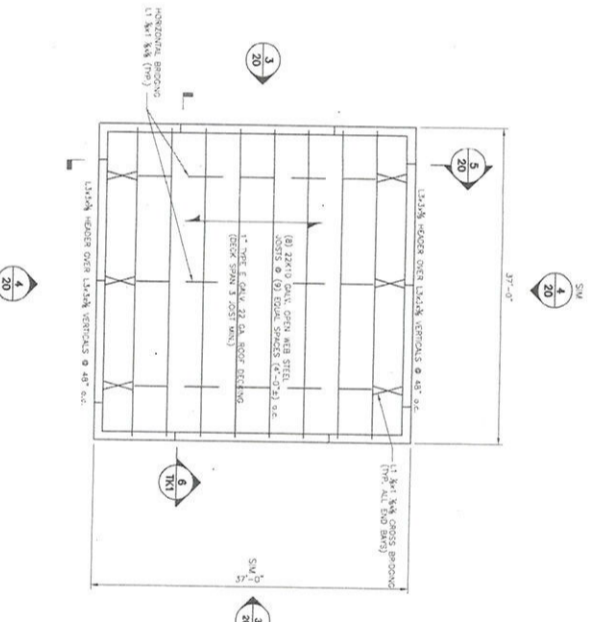
STONE FILL SOLUTION

STONE SIZE	PERCENT PASSED BY SIEVE
1 1/2" NCH	100
1/2" NCH	90-100
No. 200	0-15
	0-10

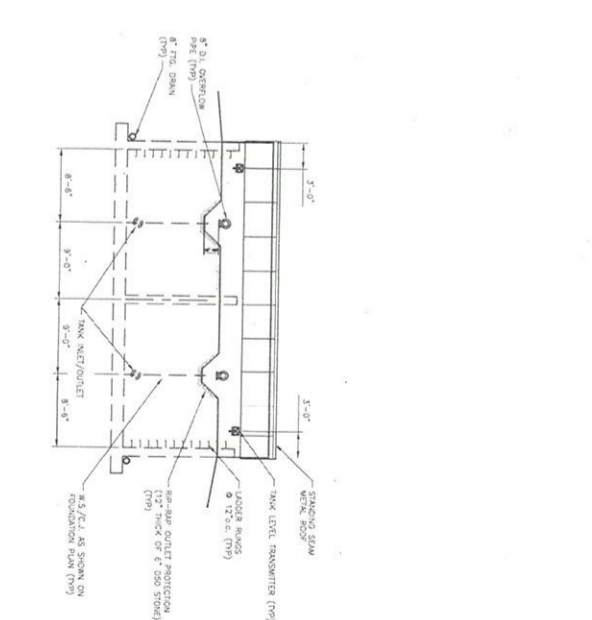


1 FOUNDATION PLAN
SCALE 1/8"=1'-0"

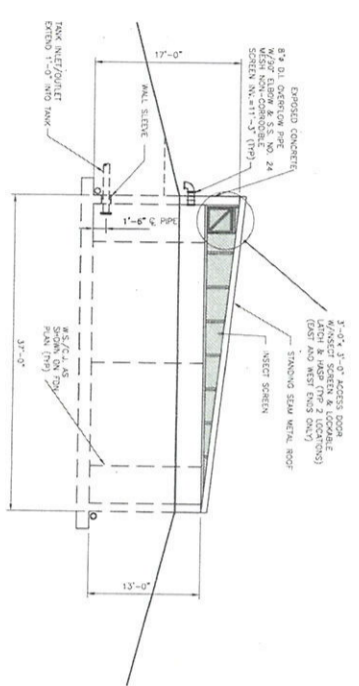
- NOTES
1. FINISH FLOOR FINISH FLOOR ELEVATION = 0'-0"
 2. 1/2" WALL ELEVATION FROM TO FOOTING/FINISHED FLOOR
 3. C.I. DIMENSIONS CONTROL JOINT



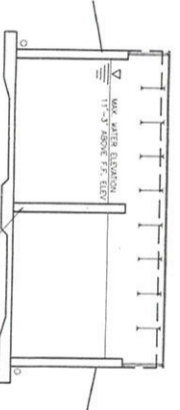
2 ROOF FRAMING PLAN
SCALE 1/8"=1'-0"



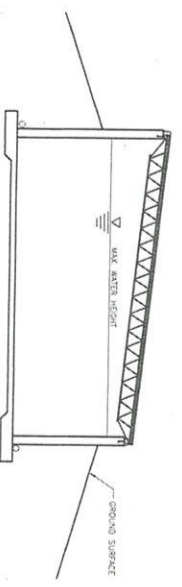
3 SOUTH ELEVATION
SCALE 1/8"=1'-0"



4 EAST ELEVATION
SCALE 1/8"=1'-0"



5 SECTION
SCALE 1/8"=1'-0"

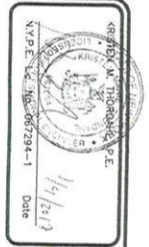


6 SECTION
SCALE 1/8"=1'-0"

- NOTES
1. PROVIDER TANK DESIGN TANK REQUIREMENTS AND DESIGN TO BE COMPLETED BY ARCHITECT
 2. TANK AND TANK ROOF COLORS TO BE EXHIBIT ONE

FOR SITE PLAN APPROVAL

REV	DATE	DESCRIPTION	BY	CHK	APP
1	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
2	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
3	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
4	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
5	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
6	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
7	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
8	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
9	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
10	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
11	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
12	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
13	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
14	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
15	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
16	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
17	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
18	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
19	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW
20	2/15/2017	ISSUE FOR PERMIT	SW	SW	SW



YUKIGUNI MATIACE MANUFACTURING CORPORATION OF ALERICA, NEW YORK
TOWN OF MAHAWAKING, SULLIVAN COUNTY, NEW YORK
ROOF FRAMING PLAN, ELEVATION, & SECTIONS

SHEET NO. 20
PROJECT NO. 07021