

**WILBUR D. THESIER, PE PC
PROFESSIONAL ENGINEERS**

P.O. BOX 870

CARTHAGE, NY 13619

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January 29, 2013

Kurt W. Hauk, P.E.
City Engineer
Room 305, City Hall
245 Washington Street
Watertown, NY 13601

Re: Site Plan Submission
Parkside Bible Church Addition
491 Eastern Boulevard

Dear Mr. Hauk:

Attached to this email submission dated 01/29/2013 please find the pdf file of the revised Parkside Bible Church site plans. Hardcopies will be delivered by the morning of 01/31/2013.

The revisions are summarized as follows (italics are comments from 01/10/2013 letter provided by your office):

1. The applicant shall provide copies of the SWPPP and related correspondence with NYSDEC.

The SWPPP and related correspondence will be provided as a separate submission prior to issuance of the building permit.

2. The applicant shall survey and depict the correct existing configuration of the existing fire hydrant and valve on Huntington Street. Additional water lines and a gate valve near Eastern Boulevard shall also be surveyed and depicted.

The fire hydrant, valve and water main information shall be provided by the surveyor and revised on the site plans for submission prior to issuance of the building permit.

3. The applicant shall relocate the Fire Department Connection to be accessible from the proposed fire lane.

The fire department connection has been relocated as shown on C102.

4. The applicant shall provide a Turn Movement Plan for Fire Truck Movements through the parking lot and drive areas. The minimum turn radius for the fire apparatus shall be 50 feet.

The turn movement plan with 50' radius is shown on C101.

5. The applicant shall provide 2 business days notice to the Engineering Department prior to excavating the Huntington Street right-of-way for the proposed sanitary sewer.

As noted on C102, two days notice will be provided.

6. The applicant should modify the plans to prevent and mitigate the proposed mature tree loss including the reduction in the limits of the tree clearing area, the realignment of utilities, the relocation of the proposed parking area, the relocation of the proposed lawn recreation area, and retaining the natural screening along the Huntington Street right-of-way.

The area behind the proposed building to be used for future recreation has been revised to show that it will be "thinned" only, rather than removing all of the large trees. See C101.

7. The applicant shall provide a complete landscaping plan and landscaping schedule, that includes a depiction of the quantity, species, and size of the proposed tree removals overlaid on the site plan—and a planting plan that includes new trees along the exterior (perimeter) of the existing and proposed lot parking lots and buildings, trees in the interior of the parking lot (islands), and trees along the Huntington Street right-of-way.

A revised landscaping plan has been provided on C104.

8. The approved landscaping plan shall be implemented prior to issuance of a Certificate of Occupancy.

The approved landscaping will be accomplished prior to issuance of a Certificate of Occupancy, as noted on C104.

9. The applicant shall provide a wet-stamped copy of the boundary and topographic survey. This map must be signed by a licensed surveyor.

The survey will be provided prior to issuance of the building permit.

10. The survey and site plans shall be revised so that elevation contour lines are more visible, and the vertical datum shall be changed to NGVD29 or NAVD88. All spot elevations and inverts shall be revised to match the appropriate datum.

The survey will be provided prior to issuance of the building permit.

11. The applicant shall obtain an easement allowing access across the lands of Watertown Associates (parcel 5-26-110) and Stebbins Engineering/Manufacturing Company (parcel 5-26-103.004) for the proposed construction entrance and fire access road. The easement shall be filed with the County Clerk and a copy provided to the City Engineer. The depicted "Alternate 20' Access Lane" is acceptable in the event that no easement can be obtained from Stebbins, but an easement from Watertown Associates would still be required.

Per the email sent by Andrew Nichols on 01/15/2013, this item has been eliminated.

Additional site lighting has also been added to the site plan, as shown on C102. Photometrics were not available at the time of this submission; however, photometrics will be provided prior to issuance of the building permit.

If there are any questions, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. J. Olmstead', written in a cursive style.

Steven J. Olmstead, P.E.

cc: Attachments

New Expansion Project Parkside Bible Church

491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

ISSUE DATE: 01/28/13 (Rev.-5)

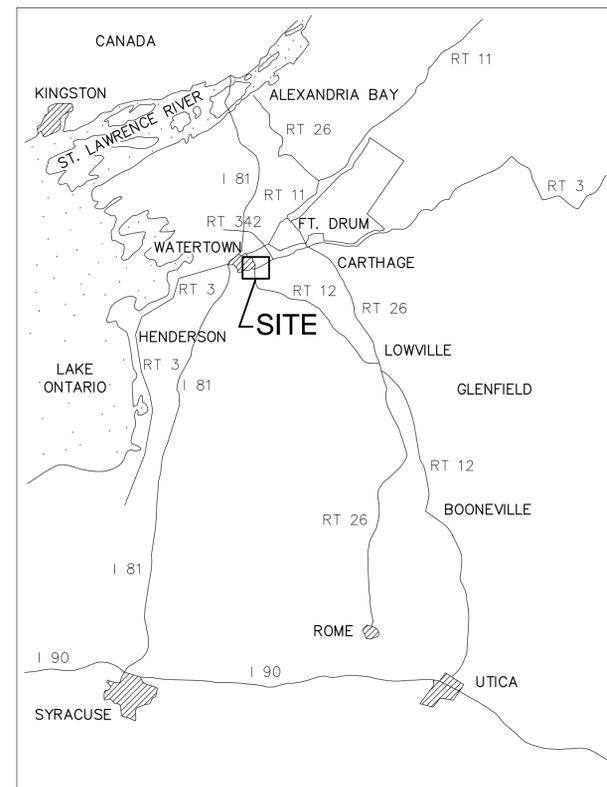
SITE DRAWING LIST

- T100 - TITLE SHEET
- C100 - EXISTING SITE PLAN
- C101 - SITE LAYOUT PLAN
- C102 - SITE LIGHTING AND UTILITY PLAN
- C103 - SITE GRADING AND DRAINAGE PLAN
- C104 - SITE LANDSCAPING PLAN
- C501 - SITE DETAILS
- C502 - SITE DETAILS
- C503 - SITE DETAILS
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Wilbur D. Thesier, P.E., P.C.
PROFESSIONAL ENGINEER
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PHONE: (315) 493-1966

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF LICENSED ARCHITECT, PROFESSIONAL ENGINEER, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY. ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS OR HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATIONS.



 **AREA LOCATION MAP**
Not to Scale

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PROFESSIONAL ENGINEER
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PHONE: (315) 493-1966

New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS

DATE	DESCRIPTION	BY
09/17/12	REVISION NO.-1	WJL
10/18/12	REVISION NO.-2	WJL
10/24/12	REVISION NO.-3	WJL
12/17/12	REVISION NO.-4	WJL

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	AS SHOWN

DRAWING NO.
T100

TITLE
PAGE



Benjamin W. Ryan
to
Helen Loomis
Liber 917 Page 741
Recorded August 31, 1981

Frank Cook
to
Watertown Associates
Liber 922 Page 863
Recorded May 21, 1982

MAP REFERENCE:
Retracement Survey
"Survey Map of the Land of Watertown Associates,
United Group of Companies, Inc., Hunting Street,
Colorado Avenue & Eastern Boulevard, City of
Watertown, County of Jefferson, State of New
York." Dated 9/17/2003 by Bernier Carr Group.

DEED REFERENCE:
Parkside Bible Church of the
Christian & Missionary Alliance to
Parkside Bible Church of the
Christian & Missionary Alliance
File Number 2005-6509
Recorded May 5, 2005
Area = 8.376 acres±

- LEGEND:**
- - 1/2" IRON PIPE WITH CAP SET
 - - IRON PIPE FOUND (As Noted)
 - - UTILITY POLE
 - ☆ - LIGHT POLE
 - - SIGN
 - ⊕ - FIRE HYDRANT
 - ⊕ - WATER VALVE
 - W — UNDERGROUND WATER LINE
 - OU — OVERHEAD UTILITY LINES
 - SN — SANITARY SEWER LINE
 - ST — STORM DRAIN LINE
 - X — X — WIRE LINK FENCE
 - — — CONCRETE CURB
 - 100 — INDEX CONTOUR
 - 101 — CONTOUR

INFORMATION TAKEN FROM SITE SURVEY PERFORMED BY
GYMO ARCHITECTURE, ENGINEERING & LAND SURVEYING P.C.
PROJECT NO.: 85-2898.01, ISSUE DATE 05/19/2008

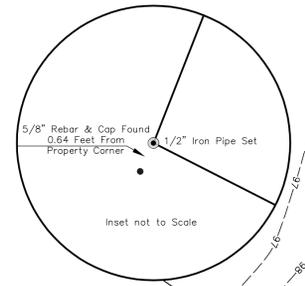
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New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS		
DATE	DESCRIPTION	BY
12/17/12	REVISION NO.-4 SCALE CHANGED FROM 1"=50' TO 1"=40'	WJL

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	1" = 40'-0"
DRAWING NO.	C100

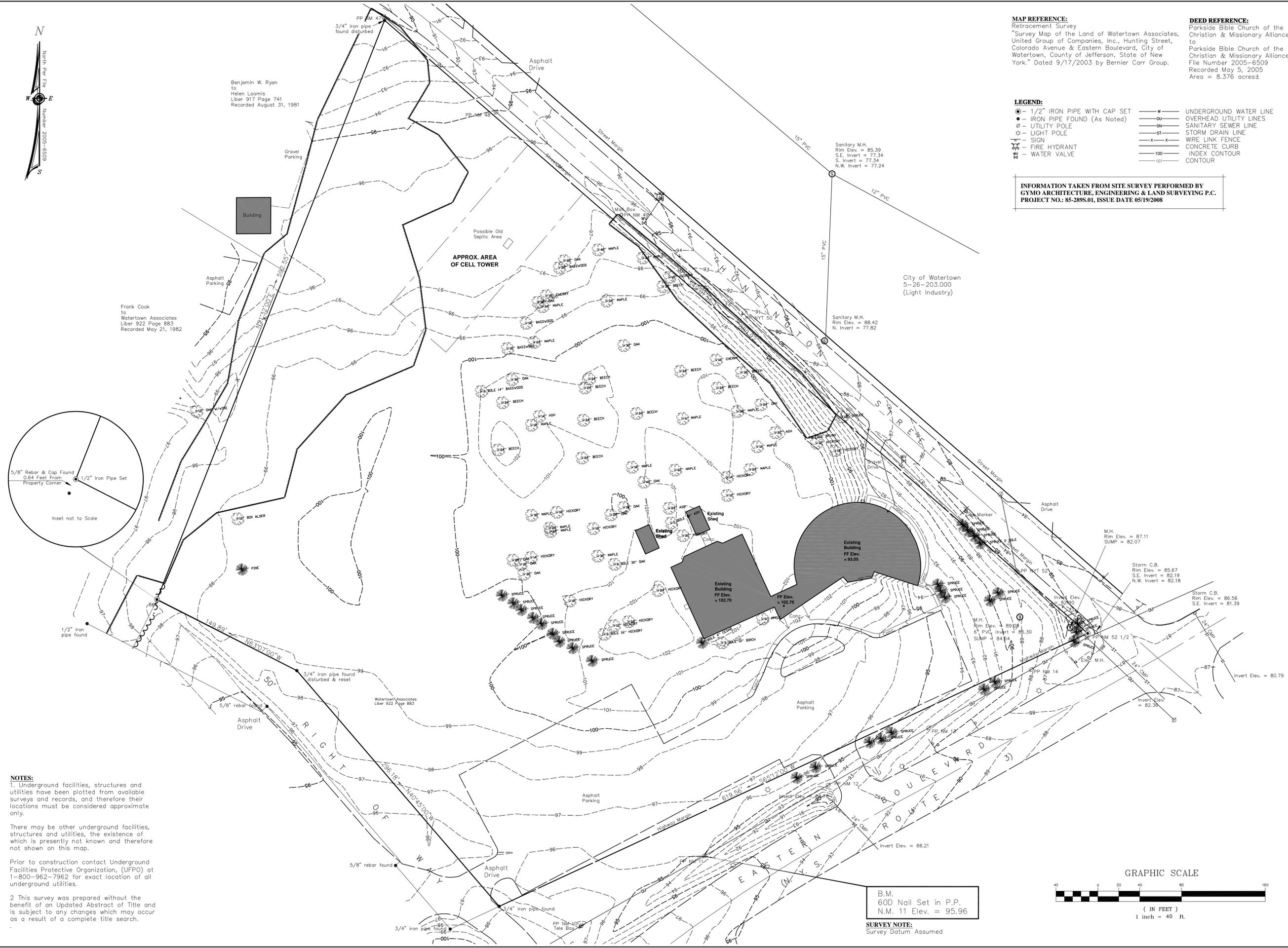
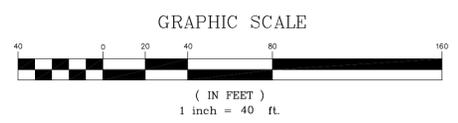
EXISTING
SITE PLAN



NOTES:
1. Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only.
There may be other underground facilities, structures and utilities, the existence of which is presently not known and therefore not shown on this map.
Prior to construction contact Underground Facilities Protective Organization, (UFPO) at 1-800-962-7962 for exact location of all underground utilities.
2 This survey was prepared without the benefit of an Updated Abstract of Title and is subject to any changes which may occur as a result of a complete title search.

B.M.
60D Nail Set in P.P.
N.M. 11 Elev. = 95.96

SURVEY NOTE:
Survey Datum Assumed





GENERAL SITE NOTES:

1. LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES OBTAINED BY FIELD MEASUREMENTS WHERE VISIBLE AND/OR AVAILABLE UTILITY MAPPING, AND CONSIDERED APPROXIMATE ONLY. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST; VERIFY THE LOCATION AND EXTENT OF ALL UTILITY INFORMATION BY CONTACTING THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION, INC. AT 1-800-962-7692
2. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. IN CASE OF ANY DISCREPANCY NOTIFY ARCHITECT/ ENGINEER
3. VERIFY THE CHARACTERISTICS AND EXTENT OF SUBSURFACE SOILS PRIOR TO CONSTRUCTION. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT/ENGINEER.
4. THE PROJECT WORK LIMITS FOR ALL NEW CONSTRUCTION ARE THE SITE BOUNDARY LINES, UNLESS NOTED OTHERWISE
5. SUPPORT ALL UTILITIES EXPOSED BY EXCAVATION. SUPPORT SYSTEMS TO BE RECOMMENDED BY THE UTILITY AUTHORITY HAVING JURISDICTION.
6. ALL DIMENSIONS ARE TO FACE OF STRUCTURE, OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
7. PAVED AREAS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
8. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
9. GRADE TO DRAIN AWAY FROM ALL NEW STRUCTURES.
11. BLEND ALL NEW WORK SMOOTHLY WITH EXISTING.
12. REPAIR TO MATCH EXISTING CONDITIONS ALL EXISTING SITE IMPROVEMENTS DISTURBED DURING CONSTRUCTION THAT ARE DESIGNATED TO REMAIN.
13. FINE GRADE AND SEED ALL AREAS DISTURBED BY THIS CONSTRUCTION, WHICH ARE NOT OTHERWISE NOTED.

TAX PARCEL: 5-26-103.007
 OWNER: Parkside Bible Church of C&ME

PROJECT INFORMATION
 CURRENT ZONING: LIGHT INDUSTRY (LI)
 LOT AREA: 8.376 AC± (364,858 S.F.±)
 EXISTING BUILDING AREA: 13,700 S.F.
 NEW BUILDING AREA: 12,500 S.F.
 TOTAL BUILDING AREA: 26,200 S.F.
 TOTAL PAVED AREA: 64,500 S.F.
 TOTAL ON SITE PARKING: 126 SPACES (10x20)

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New Expansion Project
Parkside Bible Church
 491 Eastern Boulevard, Huntington Street
 City of Watertown, Jefferson County, New York

REVISIONS

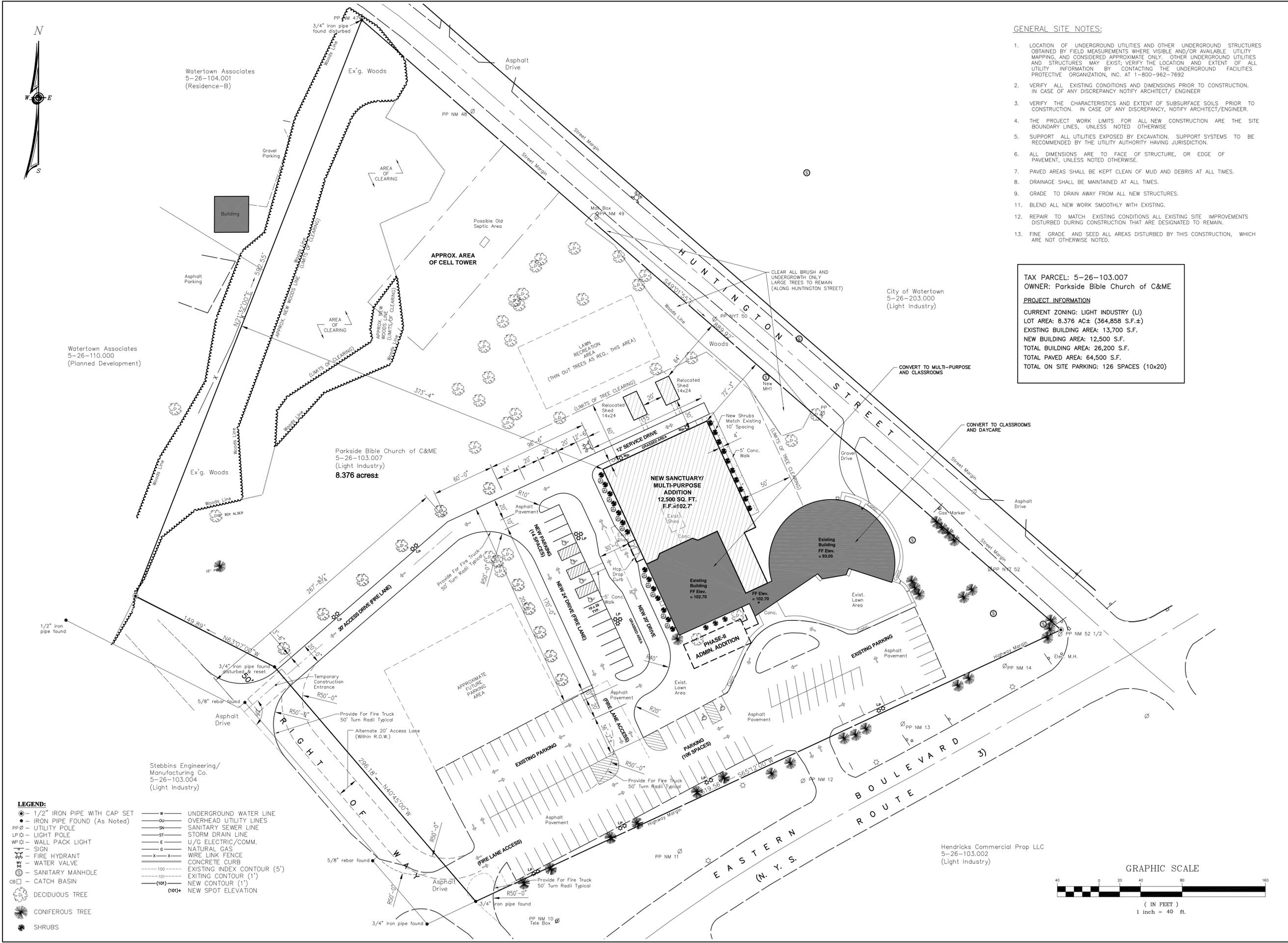
DATE	DESCRIPTION	BY
10/18/12	REVISION NO.-2	W.J.L.
10/24/12	REVISION NO.-3	W.J.L.
12/17/12	REVISION NO.-4	W.J.L.
	REVISED PLANTINGS AND TREE CLEARING ALT. ACCESS LANE	
01/28/13	REVISION NO.-5	W.J.L.
	PROVIDE 50' TURN RADIUS AT FIRE LANE ACCESS DRIVES/ NEW LP LOCATIONS/ REV. TREE REMOVALS	

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	1" = 40'-0"

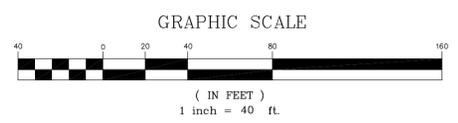
DRAWING NO.

C101

SITE LAYOUT PLAN



- LEGEND:**
- 1/2" IRON PIPE WITH CAP SET
 - IRON PIPE FOUND (As Noted)
 - PP ○ UTILITY POLE
 - LP ☆ LIGHT POLE
 - WP ☆ WALL PACK LIGHT
 - ☆ SIGN
 - ☆ FIRE HYDRANT
 - ☆ WATER VALVE
 - SANITARY MANHOLE
 - CB □ CATCH BASIN
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - SHRUBS
 - w — UNDERGROUND WATER LINE
 - ou — OVERHEAD UTILITY LINES
 - sn — SANITARY SEWER LINE
 - st — STORM DRAIN LINE
 - e — U/G ELECTRIC/COMM.
 - g — NATURAL GAS
 - x — WIRE LINK FENCE
 - x — CONCRETE CURB
 - 100 --- EXISTING INDEX CONTOUR (5')
 - 101 --- EXISTING CONTOUR (1')
 - (101) --- NEW CONTOUR (1')
 - (101)+ --- NEW SPOT ELEVATION



Hendricks Commercial Prop LLC
 5-26-103.002
 (Light Industry)

Stebbins Engineering/
 Manufacturing Co.
 5-26-103.004
 (Light Industry)

Watertown Associates
 5-26-110.000
 (Planned Development)

Watertown Associates
 5-26-104.001
 (Residence-B)

Parkside Bible Church of C&ME
 5-26-103.007
 (Light Industry)
8.376 acres±

City of Watertown
 5-26-203.000
 (Light Industry)



Watertown Associates
5-26-104.001
(Residence-B)

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Stebbins Engineering/
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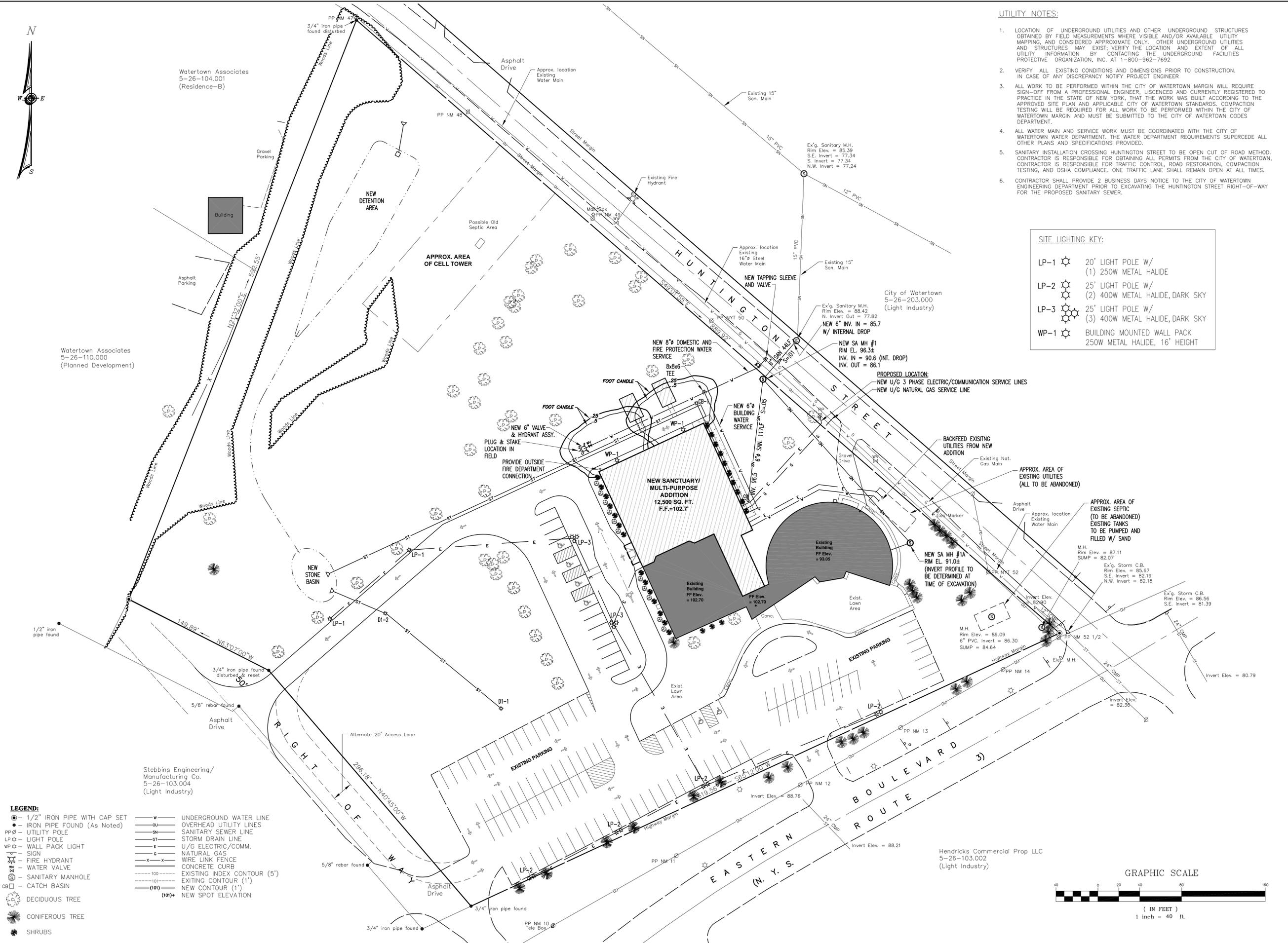
Hendricks Commercial Prop LLC
5-26-103.002
(Light Industry)

UTILITY NOTES:

1. LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES OBTAINED BY FIELD MEASUREMENTS WHERE VISIBLE AND/OR AVAILABLE. UTILITY MAPPING, AND CONSIDERED APPROXIMATE ONLY. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST; VERIFY THE LOCATION AND EXTENT OF ALL UTILITY INFORMATION BY CONTACTING THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION, INC. AT 1-800-962-7692
2. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. IN CASE OF ANY DISCREPANCY NOTIFY PROJECT ENGINEER
3. ALL WORK TO BE PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN WILL REQUIRE SIGN-OFF FROM A PROFESSIONAL ENGINEER, LICENSED AND CURRENTLY REGISTERED TO PRACTICE IN THE STATE OF NEW YORK, THAT THE WORK WAS BUILT ACCORDING TO THE APPROVED SITE PLAN AND APPLICABLE CITY OF WATERTOWN STANDARDS. COMPACTION TESTING WILL BE REQUIRED FOR ALL WORK TO BE PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN AND MUST BE SUBMITTED TO THE CITY OF WATERTOWN CODES DEPARTMENT.
4. ALL WATER MAIN AND SERVICE WORK MUST BE COORDINATED WITH THE CITY OF WATERTOWN WATER DEPARTMENT. THE WATER DEPARTMENT REQUIREMENTS SUPERCEDE ALL OTHER PLANS AND SPECIFICATIONS PROVIDED.
5. SANITARY INSTALLATION CROSSING HUNTINGTON STREET TO BE OPEN CUT OF ROAD METHOD. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS FROM THE CITY OF WATERTOWN. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL, ROAD RESTORATION, COMPACTION TESTING, AND OSHA COMPLIANCE. ONE TRAFFIC LANE SHALL REMAIN OPEN AT ALL TIMES.
6. CONTRACTOR SHALL PROVIDE 2 BUSINESS DAYS NOTICE TO THE CITY OF WATERTOWN ENGINEERING DEPARTMENT PRIOR TO EXCAVATING THE HUNTINGTON STREET RIGHT-OF-WAY FOR THE PROPOSED SANITARY SEWER.

SITE LIGHTING KEY:

LP-1	20' LIGHT POLE W/ (1) 250W METAL HALIDE
LP-2	25' LIGHT POLE W/ (2) 400W METAL HALIDE, DARK SKY
LP-3	25' LIGHT POLE W/ (3) 400W METAL HALIDE, DARK SKY
WP-1	BUILDING MOUNTED WALL PACK 250W METAL HALIDE, 16' HEIGHT



LEGEND:

●	1/2" IRON PIPE WITH CAP SET	—w—	UNDERGROUND WATER LINE
●	IRON PIPE FOUND (As Noted)	—ou—	OVERHEAD UTILITY LINES
PP	UTILITY POLE	—SN—	SANITARY SEWER LINE
LP	LIGHT POLE	—ST—	STORM DRAIN LINE
WP	WALL PACK LIGHT	—E—	U/G ELECTRIC/COMM.
—	SIGN	—G—	NATURAL GAS
—	FIRE HYDRANT	—X—	WIRE LINK FENCE
—	WATER VALVE	—	CONCRETE CURB
—	SANITARY MANHOLE	—100—	EXISTING INDEX CONTOUR (5')
CB	CATCH BASIN	—101—	EXISTING CONTOUR (1')
—	DECIDUOUS TREE	—(101)+	NEW CONTOUR (1')
—	CONIFEROUS TREE		NEW SPOT ELEVATION
—	SHRUBS		

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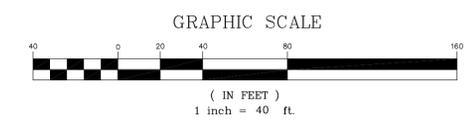
New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS

DATE	DESCRIPTION	BY
09/17/12	REVISED NEW SANITARY INVERTS	WJL
10/18/12	REVISION NO.-2	WJL
10/24/12	REVISION NO.-3	WJL
12/17/12	REVISION NO.-4 REVISED WATER LINE/ FIRE HYDRANT	WJL
01/28/13	REVISION NO.-5 NEW LOCATION OF FIRE DEPT. CONNECTION, NEW LP LOCATIONS	WJL

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	1" = 40'-0"

DRAWING NO.
C102
SITE LIGHTING AND UTILITY PLAN





Watertown Associates
5-26-104.001
(Residence-B)

Watertown Associates
5-26-110.000
(Planned Development)

Stebbins Engineering/
Manufacturing Co.
5-26-103.004
(Light Industry)

City of Watertown
5-26-203.000
(Light Industry)

Hendricks Commercial Prop LLC
5-26-103.002
(Light Industry)

EARTHWORK NOTES:

1. DURING CONSTRUCTION AND UNTIL DISTURBED AREAS ARE STABILIZED, MAINTAIN THE SITE AGAINST THE FORCES OF WATER AND WIND EROSION.
2. RESTRICT GRADING OPERATIONS TO AREAS SHOWN ON THE CONSTRUCTION DRAWINGS. GRADING OUTSIDE THE PROJECT WORK LIMITS WILL NOT BE PERMITTED.
3. BACKFILL ALL EXCAVATIONS WITH COMPACTED GRANULAR FILL IN 6" LIFTS TO 95% DENSITY.
4. TOPSOIL REQUIRED FOR ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISH GRADING OF ALL EXPOSED AREAS. ANY EXCESS TOPSOIL SHALL BE SPREAD ON-SITE OR REMOVED FROM SITE UPON COMPLETION OF EARTHWORK OPERATIONS.
5. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE VEGETATION, ROOTS, OR OTHER EXTRANEUS MATERIAL PRIOR TO PLACING FILL.
6. REMOVE FROM SITE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL NOT USED ELSEWHERE.
7. FROZEN MATERIAL OR SOFT, ORGANIC OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILL SLOPES OR STRUCTURAL FILLS.
8. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH APPROVED DEWATERING METHODS.

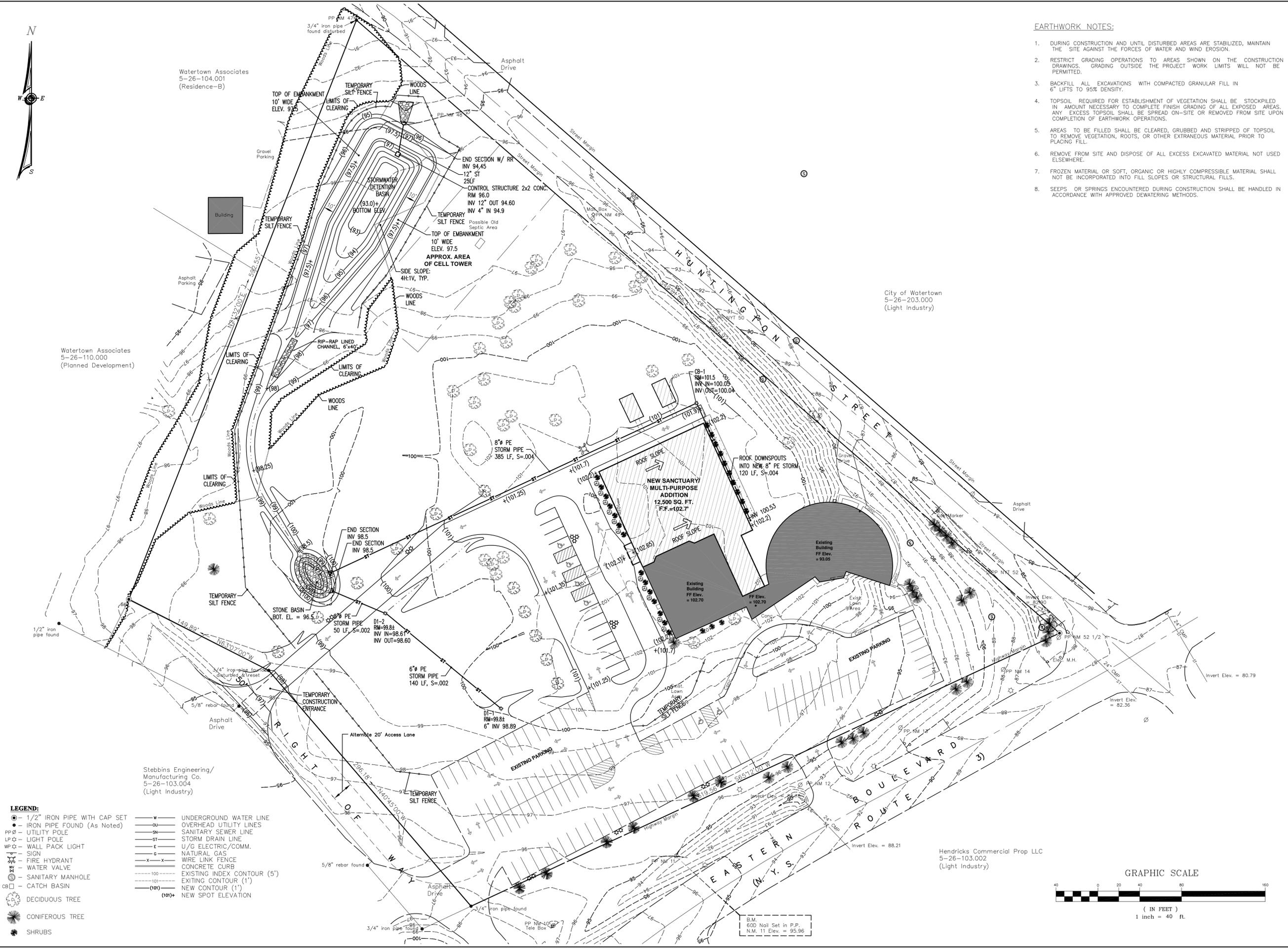
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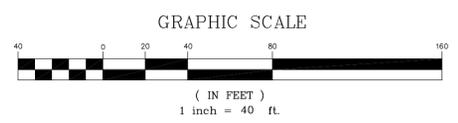
REVISIONS		
DATE	DESCRIPTION	BY
09/17/12	REVISED GRADING AND DRAINAGE	WJL
10/18/12	REVISION NO.-2	WJL
10/24/12	REVISION NO.-3	WJL
12/17/12	REVISION NO.-4	WJL
01/28/13	REVISION NO.-5	WJL

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	1" = 40'-0"
DRAWING NO.	C103

SITE GRADING AND DRAINAGE PLAN



- LEGEND:**
- 1/2" IRON PIPE WITH CAP SET
 - IRON PIPE FOUND (As Noted)
 - PP ○ UTILITY POLE
 - LP ☆ LIGHT POLE
 - WP ☆ WALL PACK LIGHT
 - ☆ SIGN
 - ☆ FIRE HYDRANT
 - ☆ WATER VALVE
 - SANITARY MANHOLE
 - CB □ CATCH BASIN
 - DECIDUOUS TREE
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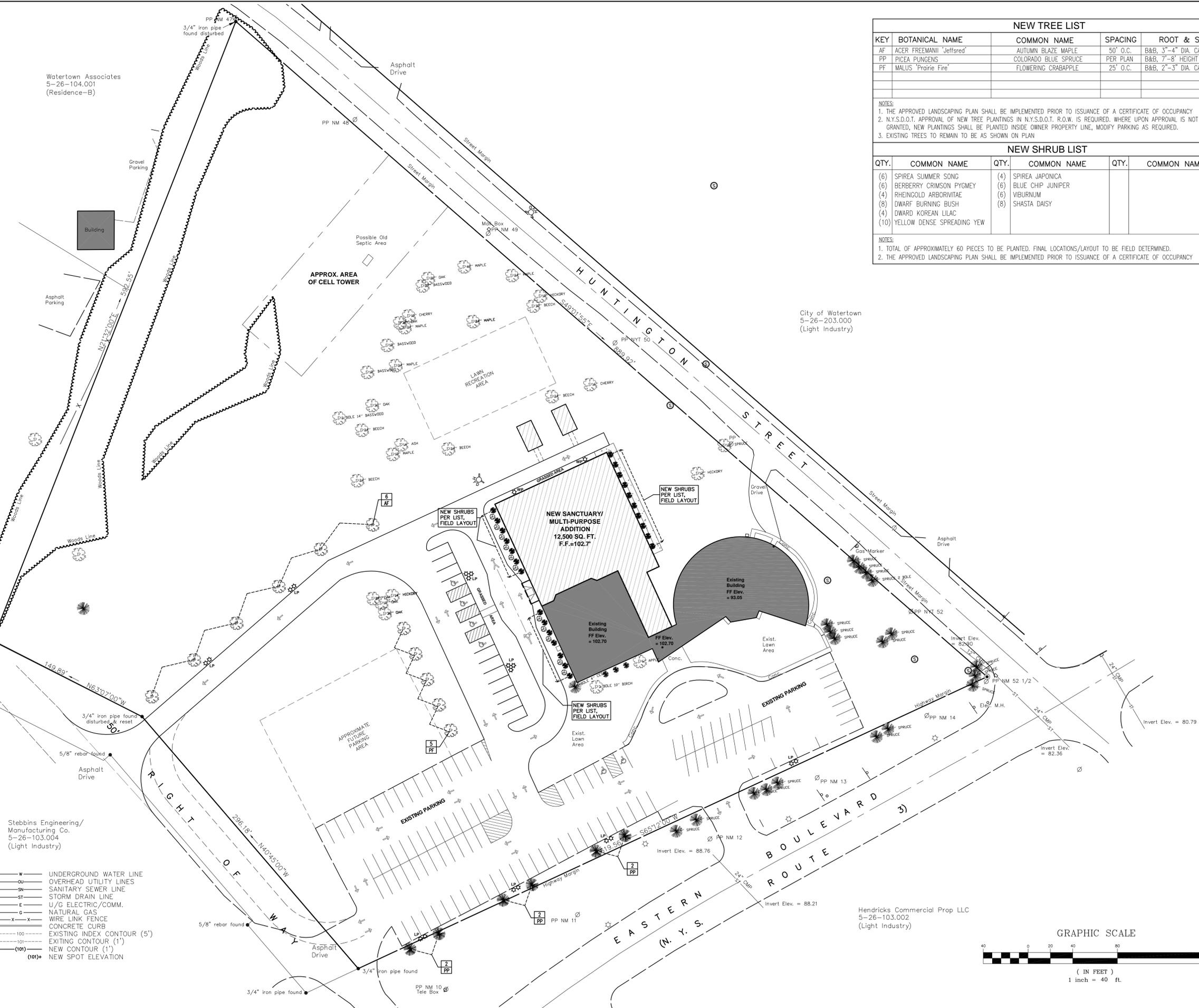


B.M.
600 Nail Set in P.P.
N.M. 11 Elev. = 95.96



Watertown Associates
5-26-104.001
(Residence-B)

Watertown Associates
5-26-110.000
(Planned Development)



NEW TREE LIST				
KEY	BOTANICAL NAME	COMMON NAME	SPACING	ROOT & SIZE
AF	ACER FREEMANII 'Jeffersred'	AUTUMN BLAZE MAPLE	50' O.C.	B&B, 3"-4" DIA. CALIPER
PP	PICEA PLUNGENS	COLORADO BLUE SPRUCE	PER PLAN	B&B, 7"-8" HEIGHT
PF	MALUS 'Prairie Fire'	FLOWERING CRABAPPLE	25' O.C.	B&B, 2"-3" DIA. CALIPER

NOTES:
1. THE APPROVED LANDSCAPING PLAN SHALL BE IMPLEMENTED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
2. N.Y.S.D.O.T. APPROVAL OF NEW TREE PLANTINGS IN N.Y.S.D.O.T. R.O.W. IS REQUIRED. WHERE UPON APPROVAL IS NOT GRANTED, NEW PLANTINGS SHALL BE PLANTED INSIDE OWNER PROPERTY LINE, MODIFY PARKING AS REQUIRED.
3. EXISTING TREES TO REMAIN TO BE AS SHOWN ON PLAN

NEW SHRUB LIST					
QTY.	COMMON NAME	QTY.	COMMON NAME	QTY.	COMMON NAME
(6)	SPIREA SUMMER SONG	(4)	SPIREA JAPONICA		
(6)	BERBERRY CRIMSON PYGMEY	(6)	BLUE CHIP JUNIPER		
(4)	RHEINOLD ARBORVITAE	(6)	VIBURNUM		
(8)	DWARF BURNING BUSH	(8)	SHASTA DAISY		
(4)	DWARD KOREAN LILAC				
(10)	YELLOW DENSE SPREADING YEW				

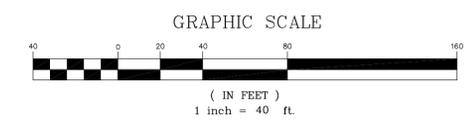
NOTES:
1. TOTAL OF APPROXIMATELY 60 PIECES TO BE PLANTED. FINAL LOCATIONS/LAYOUT TO BE FIELD DETERMINED.
2. THE APPROVED LANDSCAPING PLAN SHALL BE IMPLEMENTED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY

LEGEND:

●	1/2" IRON PIPE WITH CAP SET	—w—	UNDERGROUND WATER LINE
●	IRON PIPE FOUND (As Noted)	—ou—	OVERHEAD UTILITY LINES
PP	UTILITY POLE	—sn—	SANITARY SEWER LINE
LP	LIGHT POLE	—st—	STORM DRAIN LINE
WP	WALL PACK LIGHT	—e—	U/G ELECTRIC/COMM.
—	NATURAL GAS	—g—	NATURAL GAS
—	WIRE LINK FENCE	—x—x—	WIRE LINK FENCE
—	CONCRETE CURB	—	CONCRETE CURB
—100—	EXISTING INDEX CONTOUR (5')	—	EXISTING INDEX CONTOUR (5')
—101—	EXISTING CONTOUR (1')	—	EXISTING CONTOUR (1')
—(101)+	NEW CONTOUR (1')	—	NEW CONTOUR (1')
(101)+	NEW SPOT ELEVATION		

Stebbins Engineering/
Manufacturing Co.
5-26-103.004
(Light Industry)

Hendricks Commercial Prop LLC
5-26-103.002
(Light Industry)



Wilbur D. Thesier, P.E. PC
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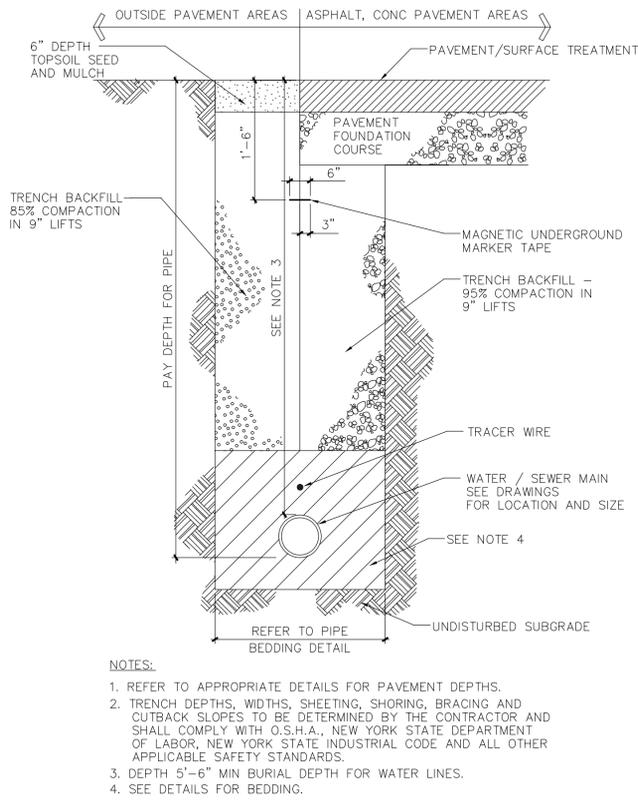
New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS

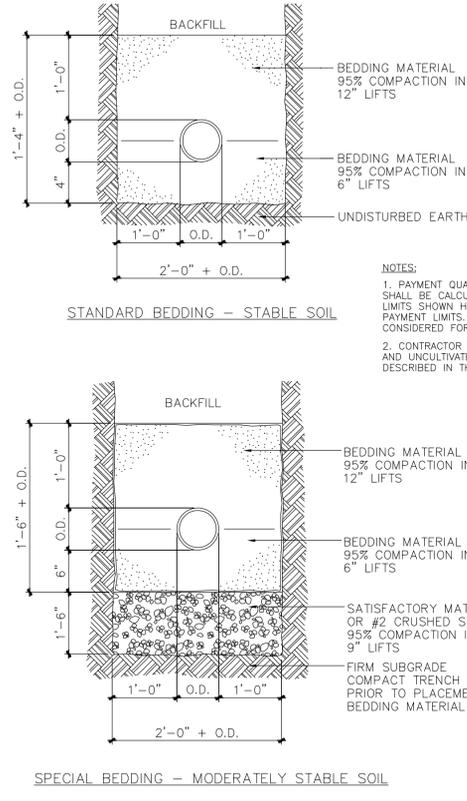
DATE	DESCRIPTION	BY

DATE	01/28/13
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	1" = 40'-0"

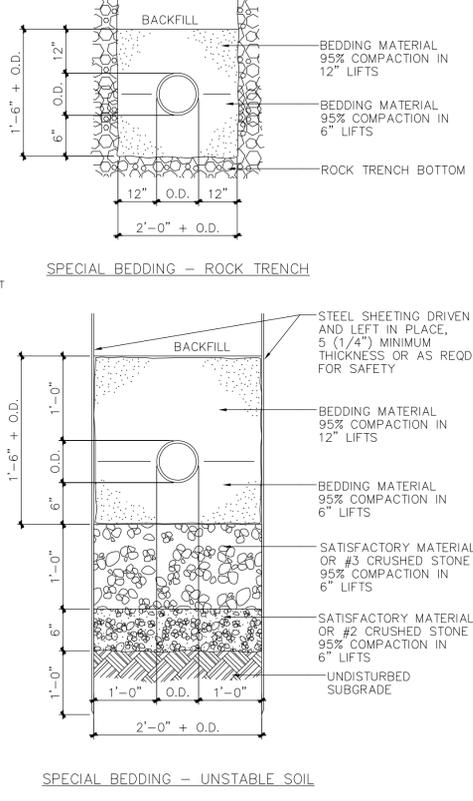
DRAWING NO.
C104
SITE LANDSCAPING PLAN



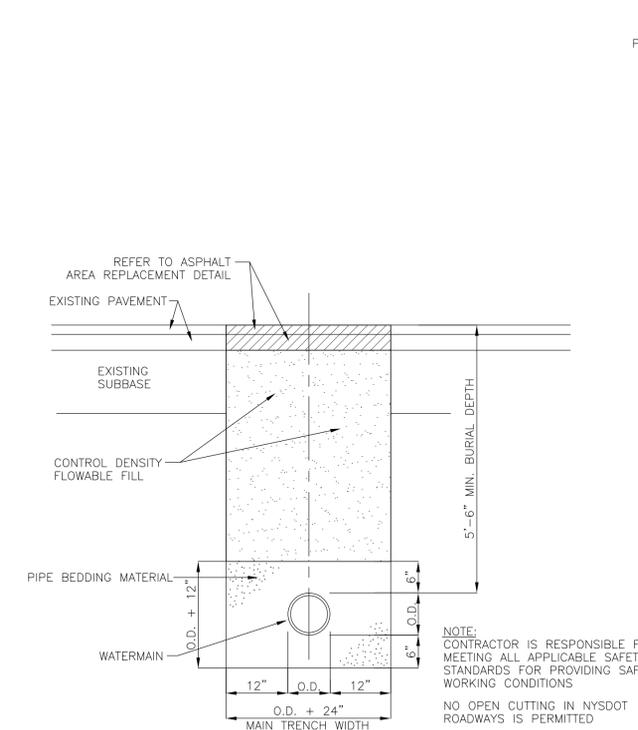
1 TYPICAL PIPE TRENCH DETAIL
C501 SCALE: NONE



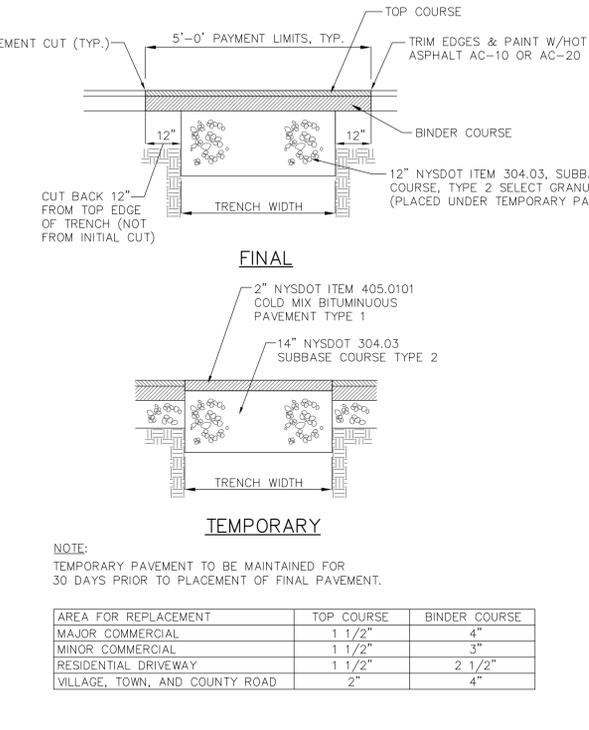
2 TYPICAL PIPE BEDDING DETAILS
C501 SCALE: NONE



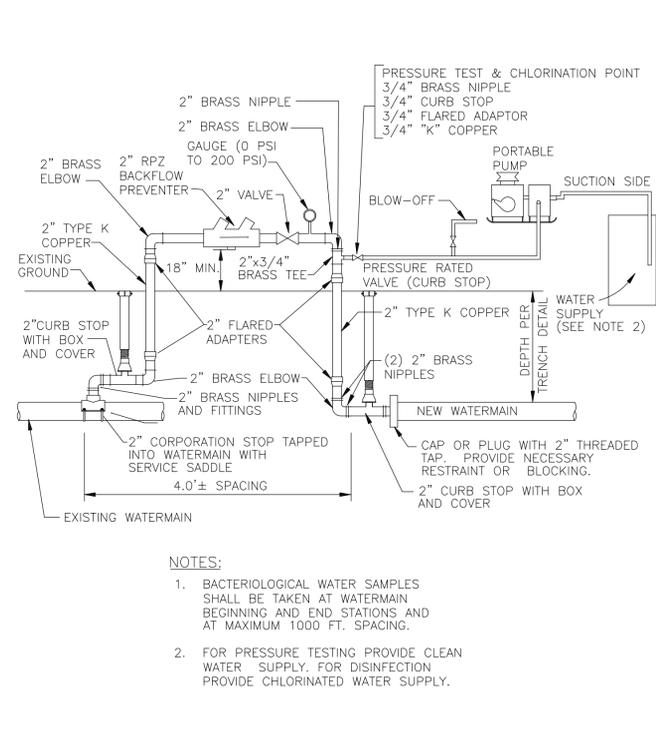
3 TYP. TAPPING SLEEVE AND VALVE
C501 SCALE: NONE (DI, PVC, CI, AC PIPE)



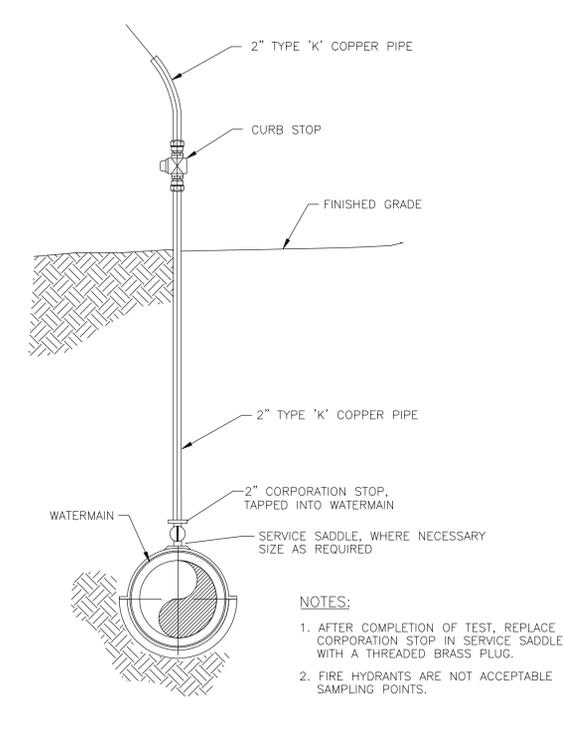
4 TYPICAL CITY ROAD CROSSING DETAIL
C501 SCALE: NONE



5 ASPHALT AREA REPLACEMENT DETAIL
C501 SCALE: NONE (EXCEPT FOR NYSDOT RIGHT-OF-WAY)



6 PRESSURE TESTING AND DISINFECTION APPARATUS
C501 SCALE: NONE (TAP TO EXISTING WATERMAIN)



7 TEMPORARY BLOW-OFF/SAMPLING POINT
C501 SCALE: NONE

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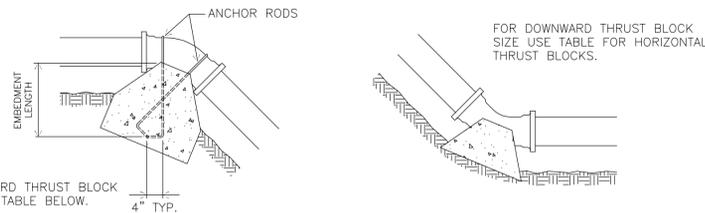
New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS		
DATE	DESCRIPTION	BY
10/18/12	REVISION-2	WJL

DRAWN	W.J.L.
CHECKED	S.O.
SCALE	AS SHOWN

DRAWING NO.
C501

SITE DETAILS

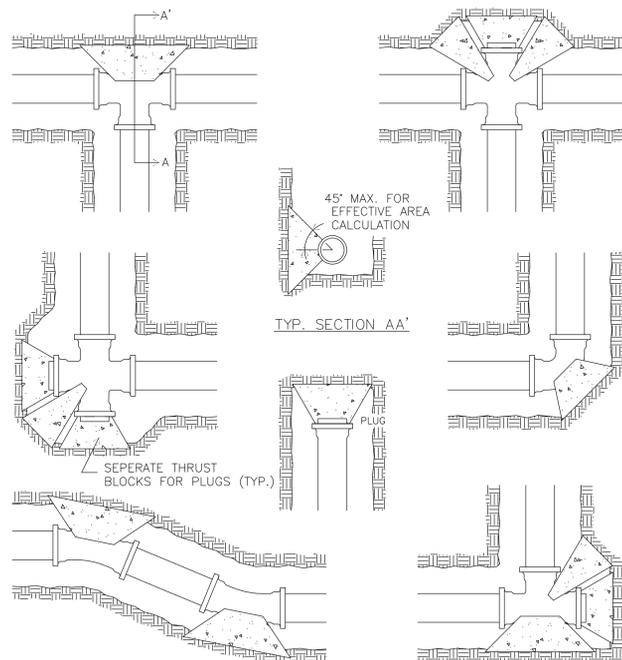


VERTICAL ANCHOR SCHEDULE (UPWARD THRUST)

NOMINAL PIPE SIZE	150 P.S.I. HYDROSTATIC PRESSURE								
	11-1/4" BEND			22-1/2" BEND			45" BEND		
	CONCRETE VOLUME (CU. YDS.)	ANCHOR ROD Ø	EMBED. LENGTH	CONCRETE VOLUME (CU. YDS.)	ANCHOR ROD Ø	EMBED. LENGTH	CONCRETE VOLUME (CU. YDS.)	ANCHOR ROD Ø	EMBED. LENGTH
4"	0.2	3/8"	1'-2"	0.4	3/8"	1'-2"	0.6	3/8"	1'-2"
6"	0.4	3/8"	1'-2"	0.7	3/8"	1'-2"	1.3	3/8"	1'-2"
8"	0.6	3/8"	1'-2"	1.2	3/8"	1'-2"	2.3	3/8"	1'-2"
10"	0.9	3/8"	1'-2"	1.7	3/8"	1'-2"	3.4	1/2"	1'-6"
12"	1.3	3/8"	1'-2"	2.5	1/2"	1'-6"	4.8	5/8"	2'-0"
14"	1.7	3/8"	1'-2"	3.3	1/2"	1'-6"	6.5	5/8"	2'-0"
16"	2.2	3/8"	1'-2"	4.3	1/2"	1'-6"	8.4	3/4"	2'-3"
18"	2.7	1/2"	1'-6"	5.4	5/8"	2'-0"	10.6	7/8"	2'-6"
20"	3.3	1/2"	1'-6"	6.6	5/8"	2'-0"	13.0	7/8"	2'-6"
24"	4.7	5/8"	2'-0"	9.4	3/4"	2'-3"	18.5	1-1/8"	3'-6"

1. THRUST BLOCK TO BE 3000 PSI CONCRETE MINIMUM.

1 TYPICAL VERTICAL THRUST BLOCK DETAILS
SCALE: NONE



HORIZONTAL ANCHOR SCHEDULE

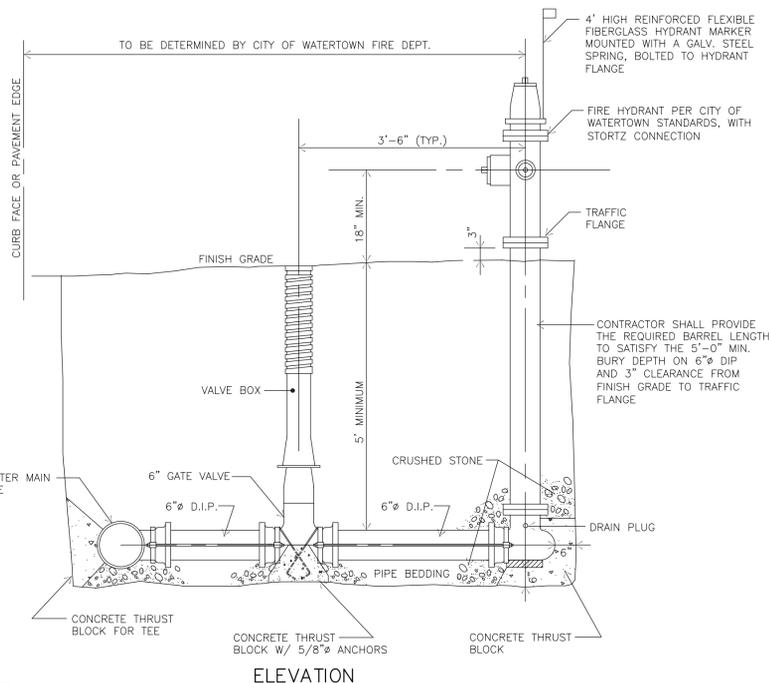
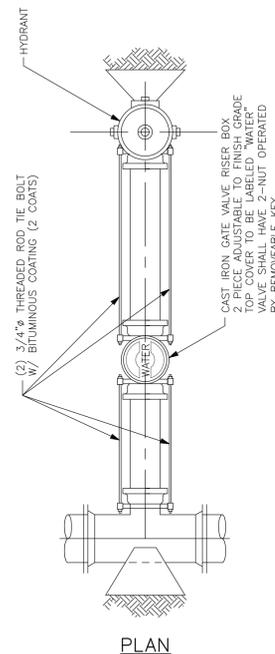
NOMINAL PIPE SIZE	150 P.S.I. HYDROSTATIC PRESSURE AGAINST UNDISTURBED SOIL AT 2000 P.S.F. BRNG. CAPACITY					150 P.S.I. HYDROSTATIC PRESS. AGAINST ROCK TRENCH, 10000 P.S.F. BRNG. CAPACITY DESIGN BASIS						
	11-1/4" BEND		22-1/2" BEND		45" BEND	11-1/4" BEND		22-1/2" BEND		45" BEND	90" BEND	PLUG OR TEE
4"	1.0	1.0	1.0	1.9	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6"	1.0	1.1	2.1	4.0	2.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8"	1.0	1.9	3.7	6.8	4.8	1.0	1.0	1.0	1.4	1.0	1.0	1.0
10"	1.4	2.8	5.6	10.3	7.3	1.0	1.0	1.1	2.1	1.5	1.5	1.5
12"	2.0	4.0	7.9	14.5	10.3	1.0	1.8	1.6	2.9	2.1	2.1	2.1
14"	2.7	5.4	10.6	19.5	13.8	1.0	1.1	2.1	3.9	2.8	2.8	2.8
16"	3.5	7.0	13.6	25.2	17.8	1.0	1.4	2.7	5.0	3.6	3.6	3.6
18"	4.4	8.7	17.1	31.7	22.4	1.0	1.7	3.4	6.3	4.5	4.5	4.5
20"	5.4	10.7	21.0	38.9	27.5	1.1	2.1	4.2	7.8	5.5	5.5	5.5
24"	7.7	15.3	30.0	55.5	39.2	1.5	3.1	6.0	11.1	7.8	7.8	7.8

- THRUST BLOCKS TO BE 3000 PSI CONCRETE MINIMUM.
- FOR SOIL BEARING CAPACITIES LESS THAN 2000 PSI OR WHERE SOIL HAS BEEN DISTURBED, THE ABOVE TABLE DOES NOT APPLY.
- WHERE TOP OF PIPE LIES BELOW TOP OF ROCK TRENCH, BEARING AREAS AGAINST ROCK TRENCH TABLE MAY BE USED.
- POLYETHYLENE BARRIER TO BE PROVIDED BETWEEN PIPE AND THRUST BLOCK.

2 TYPICAL HORIZONTAL THRUST BLOCK DETAILS
SCALE: NONE

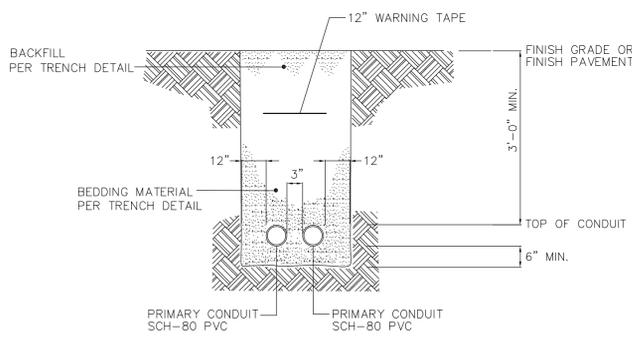
SPECIFICATIONS OF MATERIALS FOR WATERMAINS AND SERVICES

- PIPE:** DUCTILE IRON, CLASS 52 PER AWWA SPECIFICATIONS C151, C111 (PUSH-ON JOINT) AND C104 (CEMENT LINING INSIDE AND ASPHALTIC COATING OUTSIDE).
- FITTINGS:** CAST OR DUCTILE IRON PER AWWA SPECIFICATIONS C110, C53, C111 (MECHANICAL JOINT), AND C104 (CEMENT LINING INSIDE AND ASPHALTIC COATING OUTSIDE).
- HYDRANT FITTINGS:** IN ADDITION TO SPECIFICATIONS ABOVE, HYDRANT TEES SHALL BE ANCHORING TYPE; CLOW F-1217 OR APPROVED EQUAL.
- VALVES:** GATE VALVES PER AWWA SPECIFICATIONS C509 AND C111 (MECHANICAL JOINT). VALVES SHALL OPEN CLOCKWISE; KENNEDY 571 X OR APPROVED EQUAL.
- HYDRANTS:** PER AWWA SPECIFICATIONS C502 AND C1121 (MECHANICAL JOINT CONNECTION). HYDRANTS SHALL OPEN COUNTERCLOCKWISE, 5 1/2" BURY, 2 - 2 1/2" AND 1 - 4" OUTLETS, 4 1/2" VALVE OPENING, AND PAINTED RED W/YELLOW BONNET AND CAPS. HYDRANT THREADS AND OPERATING NUTS SHALL CONFORM TO LOCAL THREAD REQUIREMENTS FOR THE AREA BEING SERVED; KENNEDY K-81A OR K-81D.
- VALVE BOXES:** BUFFALO 5 X', 3 PIECE SCREW TYPE, SIZE D WITH NO. 6 BASKET.
- TAPPING SLEEVES AND TAPPING VALVES:** CLOW F-5205 AND F-5093, OR APPROVED EQUAL.
- SERVICE LINES:** CORPORATION STOP SHALL BE MUELLER H-1500 OR APPROVED EQUAL. COPPER TUBING SHALL BE TUPE K, ASTM B88. CURB STOPS SHALL BE MUELLER H-15204 OR APPROVED EQUAL. CURB BOXES SHALL BE BUFFALO TYPE, 2 1/2" SHAFT, THREE PIECE SCREW TYPE SIX 95E, OR APPROVED EQUAL.
- MANUFACTURER'S CERTIFICATION OF ALL MATERIALS USED MUST BE PROVIDED TO THE ENGINEER.**
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES, OR AS SHOWN ON THESE PLANS, WHICHEVER IS MOST STRINGENT.**
- TESTING:** LINES SHALL BE PRESSURE TESTED FOR LEAKAGE BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C-600SECTION 4, (LATEST EDITION). CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO TESTING.
- DISINFECTION:** DISINFECTION WILL BE PERFORMED BY THE CONTRACTOR AFTER ALL LINES HAVE PASSED THE PRESSURE AND LEAKAGE TESTING. THE PROCEDURE USED SHALL FOLLOW THE REGULATIONS FOUND IN BULLETIN 42 OF THE NEW YORK STATE DEPARTMENT OF HEALTH.
- CLEARANCE:** A 10 FT. MINIMUM HORIZONTAL DISTANCE SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY SANITARY SEWER OR STORM DRAINAGE LINES CROSS EACH OTHER, A MINIMUM CLEAR DISTANCE OF 18" SHALL BE MAINTAINED.
- COVER:** THE WATERLINE SHALL BE LAID WITH A MINIMUM COVER OF 5 1/2 FEET BELOW FINISHED (PROPOSED) GRADE.
- DEFLECTION:** FOR PUSH-ON JOINT PIPE THE MAXIMUM JOINT DEFLECTION IS A 4 DEGREES. FOR 18 FOOT LENGTHS THE MINIMUM CURVE RADIUS EQUALS 260 FEET. FOR TIGHTER CURVES, BENDS ARE REQUIRED.
- DISINFECTION WATER:** DISINFECTION WATER SHALL BE DISCHARGED TO AN AREA APPROVED BY THE ENGINEER OR COLLECTED AND REMOVED FROM THE SITE TO AN APPROVED DISPOSAL AREA. NO DISINFECTION WATER SHALL BE DISCHARGED INTO AN EXISTING STREAM OR WETLAND AREA.
- AIR VENTS:** IF PERMANENT AIR VENTS ARE NOT LOCATED AT THE HIGH POINTS, THE CONTRACTOR SHALL INSTALL CORPORATION COCKS AT SUCH POINTS SO THAT THE AIR CAN BE EXPELLED AS THE LINE IS FILLED WITH WATER. AFTER ALL THE AIR HAS BEEN EXPELLED, THE CORPORATION COCKS SHALL BE CLOSED AND THE TEST PRESSURE APPLIED. AT THE CONCLUSION OF THE PRESSURE TEST, THE CORPORATION COCKS SHALL BE REMOVED AND PLUGGED, OR LEFT IN PLACE AT THE DISCRETION OF THE OWNER.



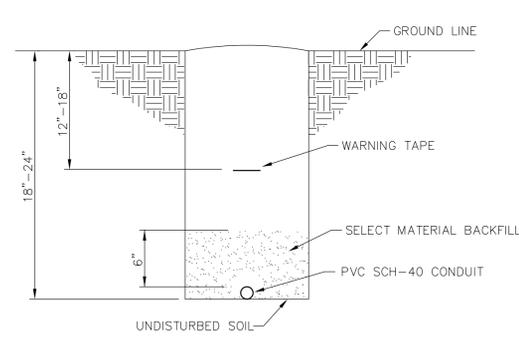
- NOTES**
- HYDRANT NOZZLE TO BE ALIGNED PERPENDICULAR TO STREET.
 - NO.3 CRUSHED STONE (2 CU. YD.) TO BE PLACED AROUND HYDRANT DRAIN.
 - SEE THRUST BLOCK DETAILS FOR REQUIRED DIMENSIONS.
 - HYDRANT TO CONFORM TO ANSI/AWWA STANDARDS FOR DRY-BARREL FIRE HYDRANTS

3 TYPICAL FIRE HYDRANT DETAIL
SCALE: NONE



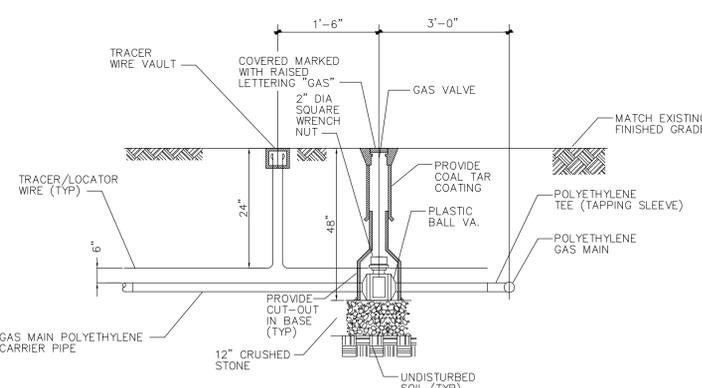
NOTE: USE GALVANIZED RIGID STEEL CONDUIT WITHIN 5'-0" OF THE BUILDING. GROUND CONDUIT PER NATIONAL ELECTRIC CODE.

4 ELECTRIC SERVICE TRENCH DETAIL
SCALE: NONE

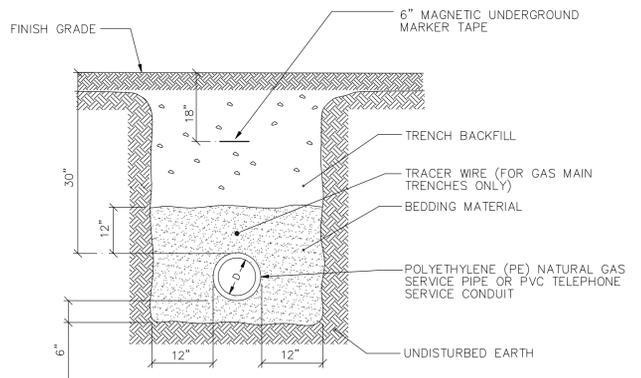


NOTE: USE SCH-80 PVC UNDER PAVEMENT AND ROADWAYS

5 LIGHTING TRENCH DETAIL
SCALE: NONE



6 TYPICAL GAS SERVICE CONNECTION DETAIL
SCALE: NONE



NOTE: 1. ALL BACKFILL IN PAVED AREAS TO BE COMPACTED TO MAXIMUM 95% DENSITY.

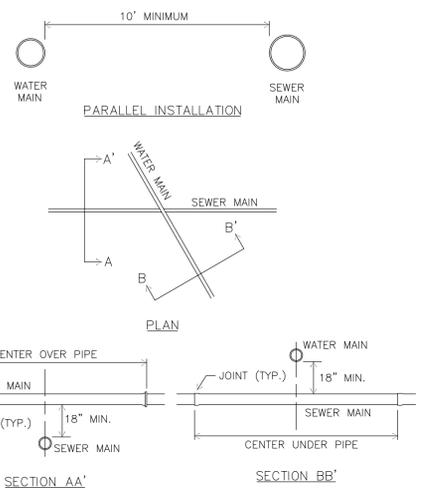
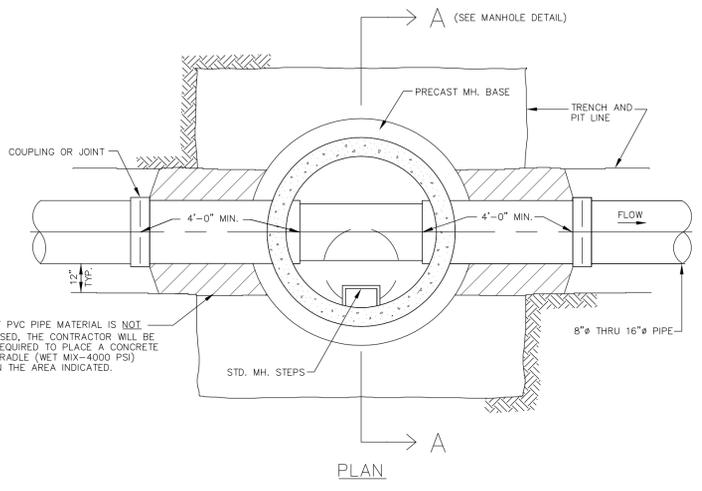
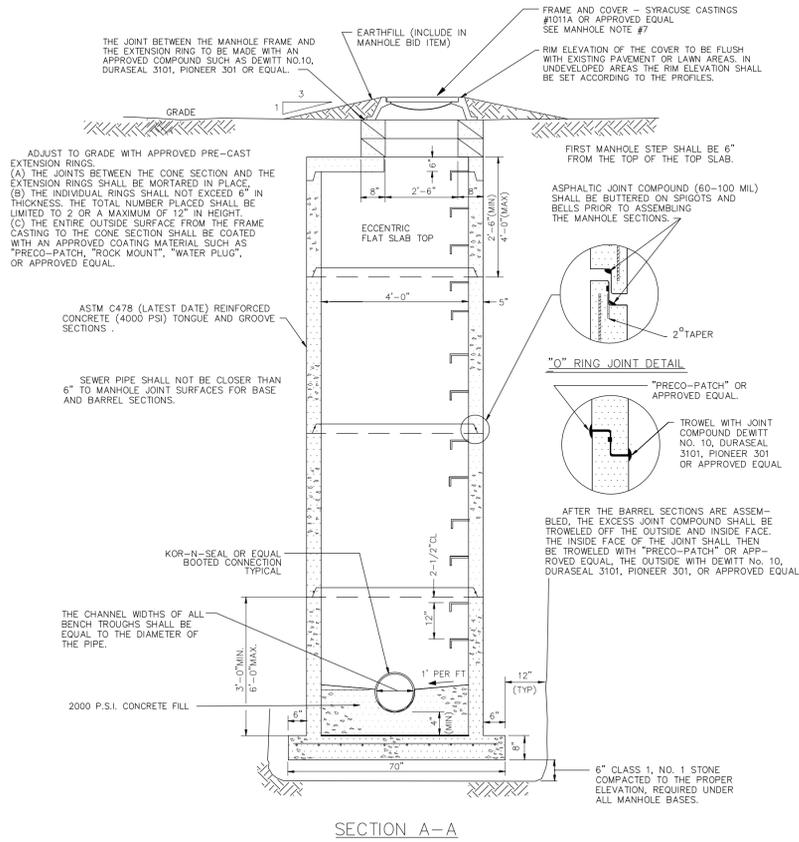
7 TYPICAL NAT. GAS MAIN AND TELEPHONE TRENCH DETAIL
SCALE: NONE

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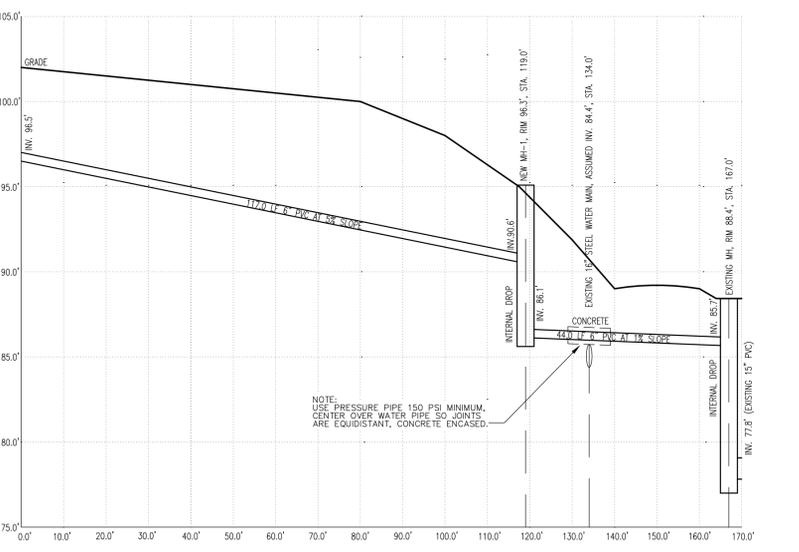
New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS		
DATE	DESCRIPTION	BY
10/24/12	REVISION-3	WJL

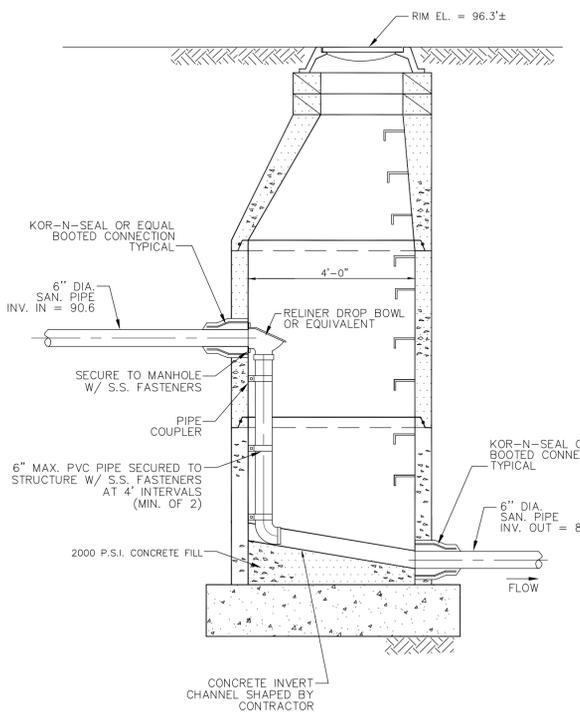
DRAWING NO. C502
DATE: 08/20/12
DRAWN: W.J.L.
CHECKED: S.O.
SCALE: AS SHOWN
SITE DETAILS



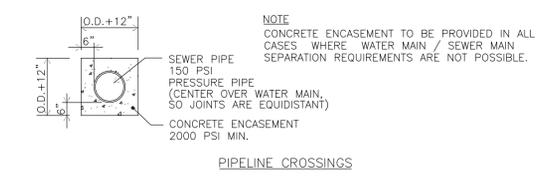
1 MONOLITHIC PRECAST BASE MANHOLES
 SCALE: NONE
 (4'-0" Ø FOR SEWERS 16" Ø AND LESS)



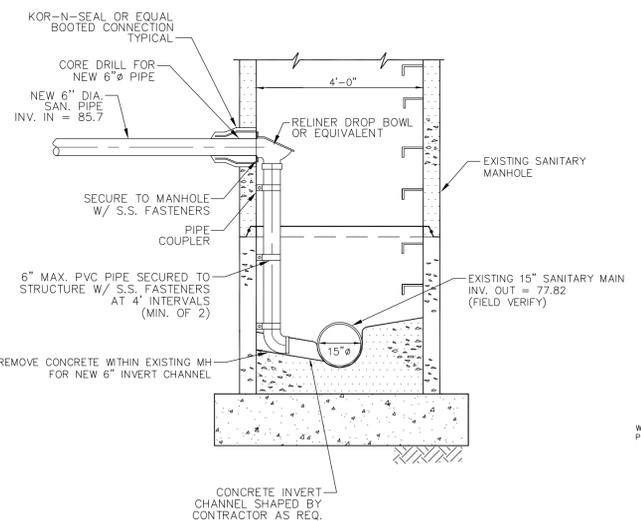
2 SANITARY PROFILE
 SCALE: HORIZ. 1"=20', VERT. 1"=5'



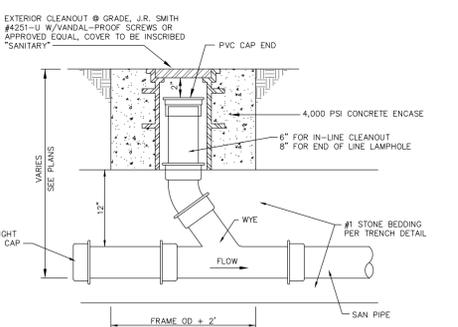
3 SANITARY MANHOLE #1 DETAIL (INTERNAL DROP)
 SCALE: NONE



6 WATER AND SANITARY MAIN SEPARATION DETAILS
 SCALE: NONE



4 CONN. TO EXISTING SANITARY M.H. (INTERNAL DROP)
 SCALE: NONE



5 CLEANOUT TO GRADE
 SCALE: NONE

SANITARY SEWER GENERAL NOTES

GENERAL:

- THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL HE HAS SUBMITTED MATERIALS CERTIFICATES TO THE ENGINEER AND THESE HAVE BEEN RETURNED TO HIM STAMPED APPROVED. IN ADDITION, 3 COPIES OF THE MATERIAL SUBMITTALS SHALL BE PROVIDED TO THE CITY FOR REVIEW & APPROVAL PRIOR TO PROCURING MATERIAL.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY INSPECTOR AT LEAST 24 HOURS PRIOR TO STARTING ANY WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS RELATING TO THE WORK.

GRAVITY PIPE:

- PIPE SHALL BE PVC TYPE PSM, MEETING ASTM D-3034, LATEST EDITION
- PIPE STANDARD SHALL BE SDR-35, MINIMUM AND JOINTS SHALL BE RING-TITE, MEETING ASTM D-1869, LATEST EDITION
- BELL ENDS TO BE LAID UPHILL
- NO CELLAR DRAIN, SUMP PUMPS OR ROOF DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER.
- SANITARY LINE SHALL NOT BE COVERED UNTIL INSPECTED BY THE ENGINEER OR THE CITY INSPECTOR.
- WHERE GROUND WATER IS PRESENT, CLAY DAMS SHALL BE CONSTRUCTED AT 100 FT. INTERVALS. THE DAMS SHALL BE A MINIMUM OF 18 INCHES THICK AND EXTEND THE FULL HEIGHT AND WIDTH OF THE TRENCH.

MANHOLES:

- MANHOLES SHALL BE PRECAST REINFORCED CONCRETE STRUCTURES MEETING ASTM C 478
- STEPS SHALL BE IN ALIGNMENT VERTICALLY AND CENTERED OVER A BENCH AREA.
- STEPS SHALL PROJECT A MINIMUM OF 5 INCHES BEYOND THE INTERIOR OF THE MANHOLE WALL.
- ALL INTERIOR SANITARY MANHOLES SHALL BE PARGED AND ALL EXTERIOR JOINTS SEALED WITH AN APPROVED ASPHALT COATING, HEAVY BLACK BITUMASTIC (14 MILS) ENTIRE EXTERIOR INCLUDING JOINTS, BRICK, ADJUSTMENTS AND TOP SLABS.
- THE BOTTOM OF THE MANHOLE SHALL BE SHAPED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS. FORM INVERTS WITH CONCRETE FROM TOP OF PIPE TO SPRINGLINE. FLOW CHANNEL TO BE SMOOTH GROUT.
- THE MANHOLE TO SANITARY CONNECTION WILL BE MADE AS SHOWN IN DETAIL ON THIS SHEET. THE WATER TIGHT CONNECTION WILL BE ACCOMPLISHED THROUGH THE USE OF A STANDARD ELASTIC BOOT CAST INTO STRUCTURE WALLS AS PER A.S.T.M.C.-443.
- MANHOLE FRAME AND COVERS SHALL BE IMPRINTED WITH THE CITY NAME AND THE WORDS "SANITARY SEWER" IN 2 INCH LETTERS. PROVIDE 2 WATER TIGHT PICK HOLES #48 - 83 CLASS 30B FOR ASH TO LOAD HS20 - S16.
- THE JOINTS BETWEEN THE MANHOLE SECTIONS WILL BE AN O-RING ASTM C443 AND MEETING NYS DOT ITEM 706.02 OR BUTYL RESIN ASHTO SPEC.M1988.

TESTING:

- TESTING SHALL MEET THE CURRENT REQUIREMENTS OF THE CITY OR AS SET FORTH BELOW. ALL TESTING MUST BE WITNESSED BY THE ENGINEER AND CITY OFFICIAL.
- PIGGING (DEFLECTION) TESTING
 ALL LINES SHALL HAVE A PIGGING DEVICE PULLED THROUGH THEM CAPABLE OF TESTING THE ROUNDNESS OF THE INSTALLED LINE. THE PIG SHALL BE A RIGID CIRCULAR OR SPHERICAL DEVICE WITH AN OUTSIDE DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE TO BE TESTED.
- LAMPING (ALIGNMENT) TESTING
 ALL LINES SHALL BE VISUALLY LAMPED FOR ALIGNMENT. A FULL MOON MUST BE VISIBLE.
- AIR PRESSURE (LEAKAGE) PIPE TESTING
 ALL SANITARY SEWER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ASTM F-1417.
- ALL SANITARY SEWER MANHOLES SHALL BE TESTED FOR LEAKAGE USING ONE OF THE FOLLOWING METHODS:
 A) BY PLUGGING THE OUTLET LINE AND FILLING THE MANHOLE WITH WATER TO A POINT AT LEAST ONE FOOT ABOVE THE UPPERMOST JOINT (EXCLUDING THE GRADE ADJUSTMENT COURSES). AFTER 24 HOURS, THE DROP IN THE WATER LEVEL SHALL BE MEASURED AND THE LOSS CALCULATED. THE ALLOWABLE LOSS SHALL BE EQUAL TO 100 GALLONS/INCH/MILE/DAY. B) VACUUM TESTED IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS.

NOTE:
 ALL CONSTRUCTION, INSPECTION AND MONITORING SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL ORDINANCES, LAWS AND PROCEDURES. THIS SHALL INCLUDE ALL CONSTRUCTION METHODS, MATERIALS AND SAFETY PROCEDURES. ADDITIONAL TRENCH SAFETY, INSPECTION AND MONITORING SHALL BE DESIGNED AND FURNISHED BY THE CONTRACTOR AS REQUIRED BY OSHA, STATE AND LOCAL ORDINANCES, LAWS AND PROCEDURES.

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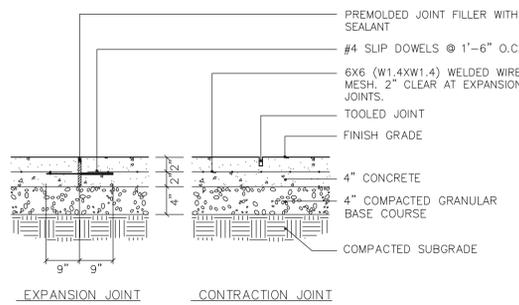
New Expansion Project
Parkside Bible Church
 491 Eastern Boulevard, Huntington Street
 City of Watertown, Jefferson County, New York

REVISIONS		
DATE	DESCRIPTION	BY
09/17/12	REVISED NEW SANITARY	WJL
10/18/12	REVISION-2	WJL
10/24/12	REVISION-3	WJL

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	AS SHOWN

DRAWING NO. **C503**

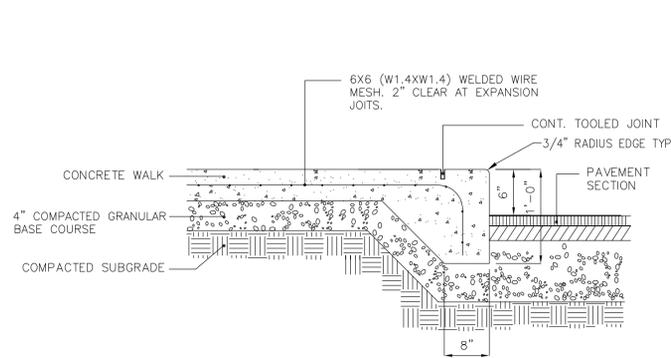
SITE DETAILS



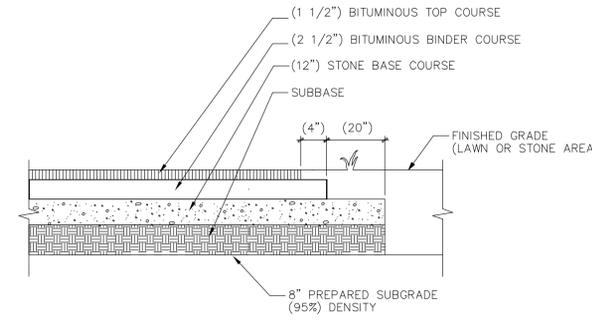
NOTE-

- CONTROL JOINTS TO BE SPACED 5' O.C. MAX., EXPANSION JOINTS TO BE SPACED 30' O.C. MAX.

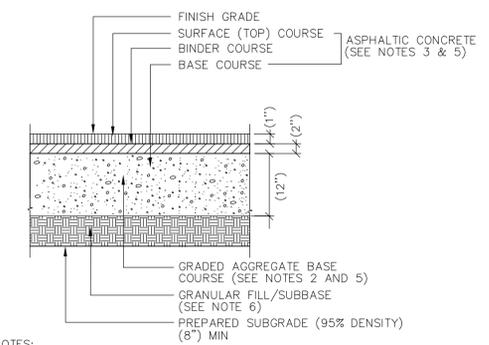
1 CONCRETE WALK DETAIL
C504 SCALE: NONE



2 CONCRETE WALK/INTEGRAL CURB DETAIL
C504 SCALE: NONE



3 PAVEMENT TO LAWN TRANSITION
C504 SCALE: NONE

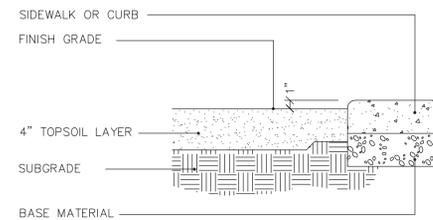


NOTES:

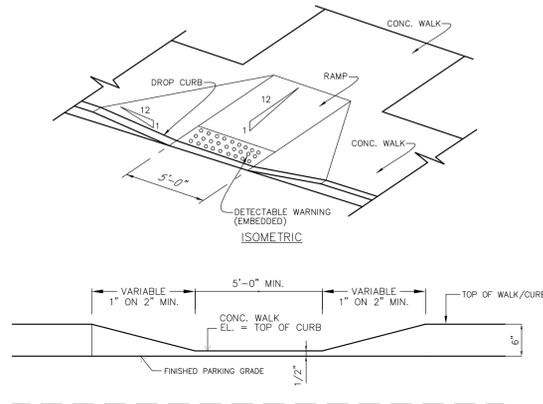
- CONSTRUCT ASPHALT SURFACE OR BITUMINOUS SURFACE TREATMENT ONLY WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES F. AND RISING, AND WHEN BASE IS DRY. BINDER COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 45 DEGREES F. AND RISING.
- GRANULAR BASE COURSE SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION SECTION 304 OPTION C - TYPE 2 FOR CRUSHED STONE, NYSDOT ITEM NO. 304.12M, AS SPECIFIED BELOW:

STANDARD SIEVE SIZE	PERCENT PASSING BY WEIGHT
(2")	100%
(1/4")	25-60%
425um	5-40%
75um	0-5%
- ASPHALTIC CONCRETE SHALL CONFORM TO NYSDOT STANDARD SPECIFICATIONS, SECTION 403; SURFACE COURSE TYPE 7F, NYSDOT ITEM NO. 403.198202M; BINDER COURSE TYPE 3, NYSDOT ITEM NO. 403.138902M.
- APPLY TACK COAT OF ASPHALTIC CEMENT TO ALL VERTICAL JOINTS BETWEEN OLD AND NEW WORK. USE NYSDOT ITEMS NO. 407.01M MEDIUM SETTING.
- TEST FINISHED SURFACE OF EACH COURSE FOR SMOOTHNESS, USING (10') STRAIGHTEDGE APPLIED PARALLEL WITH, AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREAS. SURFACES WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS:
 BASE COURSE SURFACE: (1/2")
 BINDER COURSE SURFACE: (1/4")
 SURFACE COURSE SURFACE: (1/4")
- GRANULAR FILL/SUBBASE SHALL BE (12") MIN.

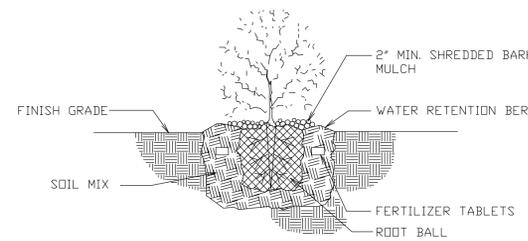
4 ASPHALT PAVEMENT DETAIL
C504 SCALE: NONE



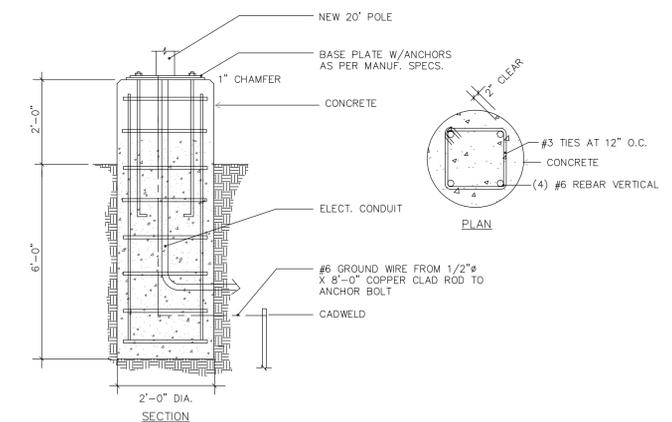
5 GRASSED AREAS DETAIL
C504 SCALE: NONE



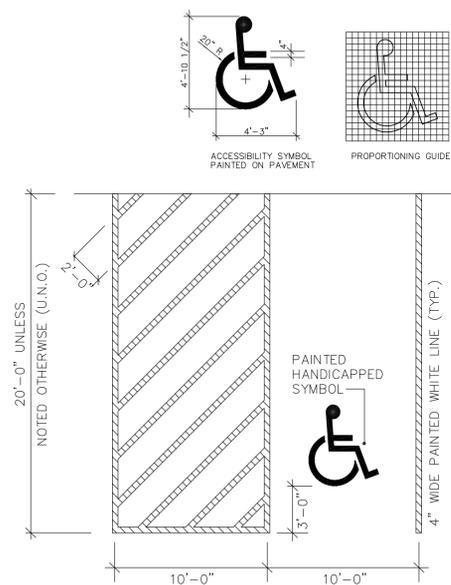
6 ACCESSIBLE RAMP DETAIL
C504 SCALE: NONE



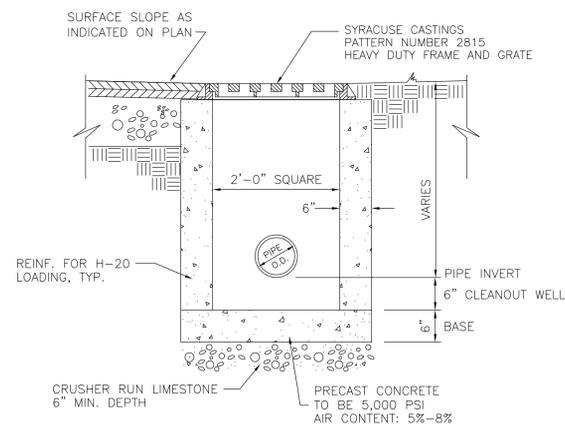
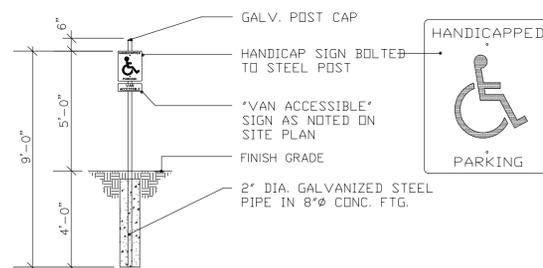
7 SHRUB PLANTING DETAIL
C504 SCALE: NONE



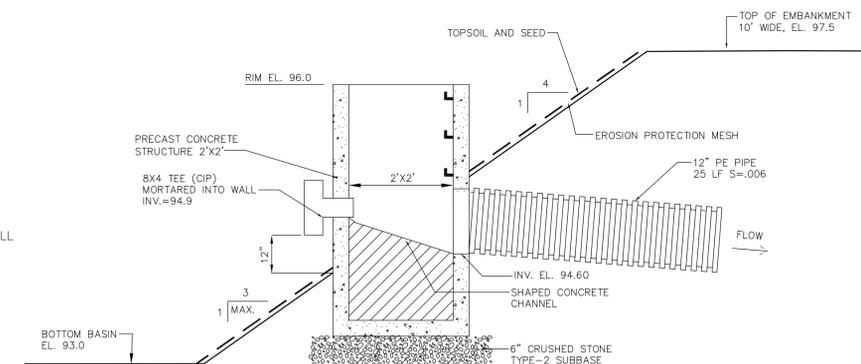
8 LIGHT POLE BASE DETAIL
C504 SCALE: NONE



9 ACCESSIBLE PARKING DETAILS
C504 SCALE: NONE



10 DROP INLET/CATCH BASIN DETAIL
C504 SCALE: NONE (PRECAST CONCRETE)



11 OUTLET CONTROL STRUCTURE
C504 SCALE: NONE

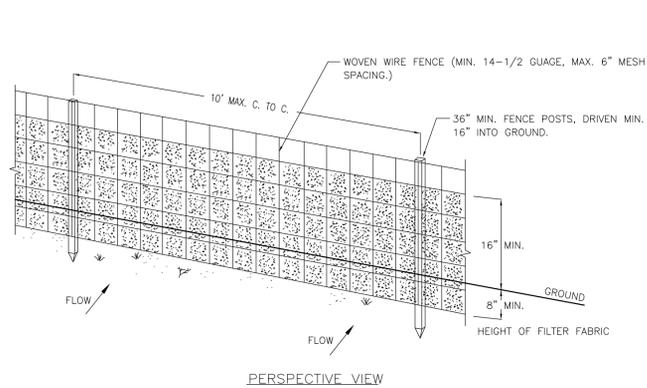
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New Expansion Project
Parkside Bible Church
491 Eastern Boulevard, Huntington Street
City of Watertown, Jefferson County, New York

REVISIONS		
DATE	DESCRIPTION	BY
10/24/12	REVISION-3	WJL

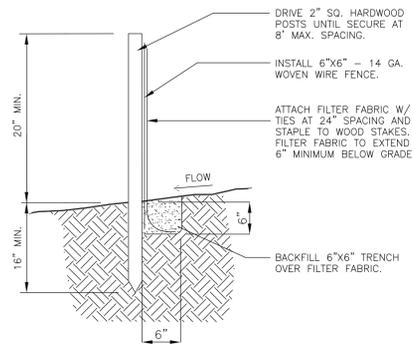
DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	AS SHOWN

DRAWING NO.
C504
SITE DETAILS



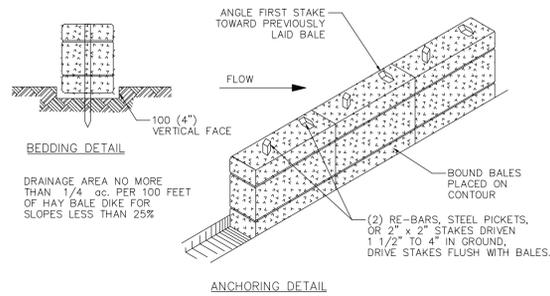
PERSPECTIVE VIEW

1 TYPICAL SILT FENCE DETAILS
 C505 SCALE: NONE



NOTES

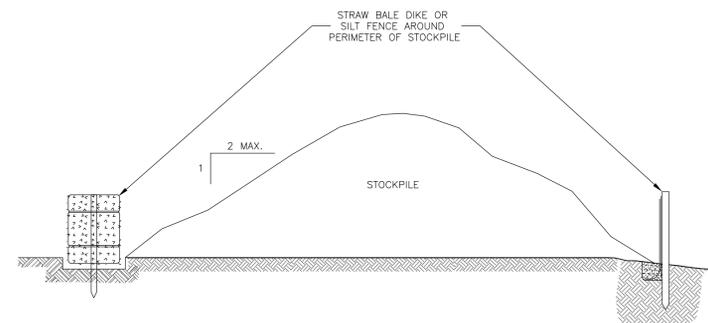
1. PRE-MANUFACTURED SILT FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 152 (6") AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
4. SILT FENCE TO REMAIN IN PLACE UNTIL LAWNS HAVE BEEN ESTABLISHED AND/OR FINISH SURFACE HAVE BEEN INSTALLED.



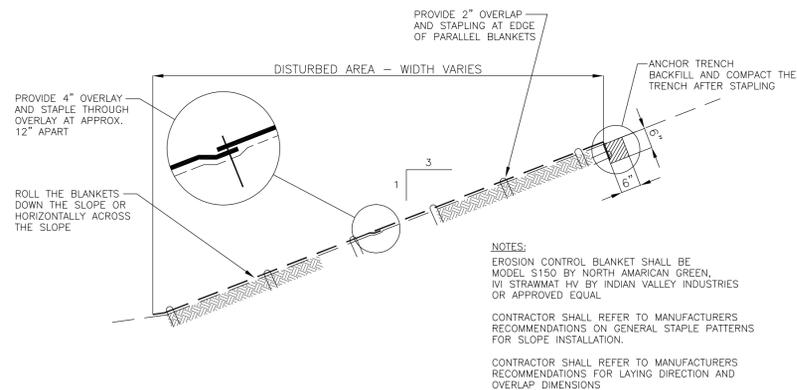
CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW DRAINAGE.

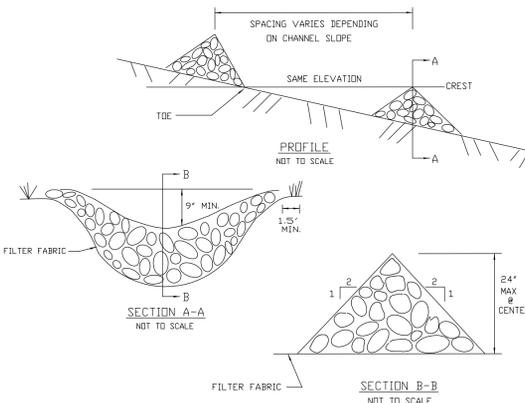
2 TYPICAL STRAW BALE DIKE DETAIL
 C505 SCALE: NONE



3 TYPICAL SOIL STOCKPILING DETAIL
 C505 SCALE: NONE



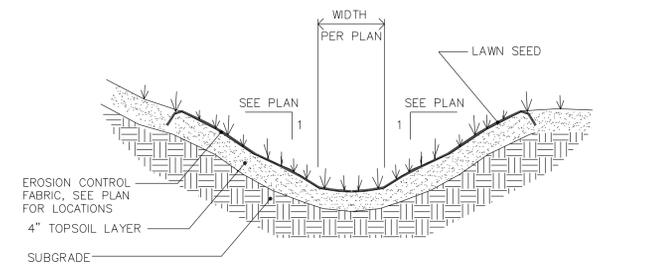
4 TYPICAL SIDESLOPE DETAIL - EROSION CONTROL BLANKET
 C505 SCALE: NONE



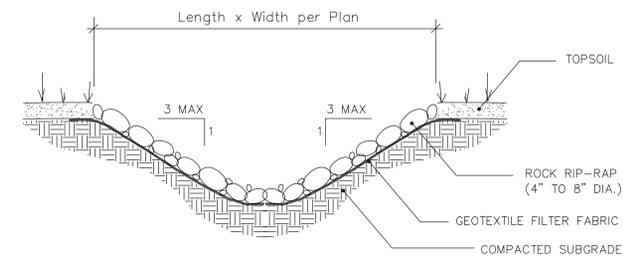
CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

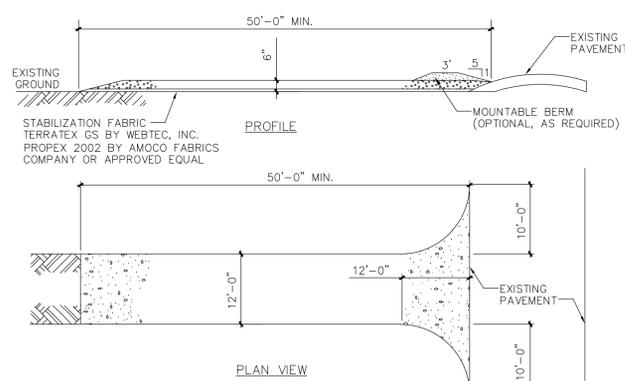
5 TYPICAL ROCK CHECK DAM DETAIL
 C505 SCALE: NONE



6 TYP. VEGETATED DRAINAGE CHANNEL
 C505 SCALE: NONE



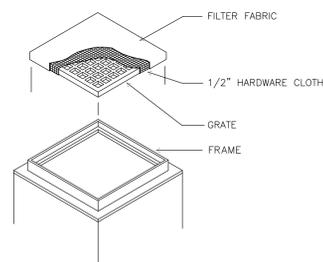
7 TYP. RIP-RAP DRAINAGE CHANNEL
 C505 SCALE: NONE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" CRUSHED QUARRY STONE
2. THICKNESS - NOT LESS THAN 6" MINIMUM
3. WIDTH - 12'-0" MINIMUM
4. STABILIZATION FABRIC - PLACE OVER ENTIRE AREA PRIOR TO PLACEMENT OF STONE.
5. SURFACE WATER - SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE TO BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. MAINTENANCE - MAINTAIN ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. WASH VEHICLE TIRES WHEN NEEDED ON THE STABILIZED CONSTRUCTION ROAD, PRIOR TO EXITING THE AREA OF CONSTRUCTION
8. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN. TOP DRESS WITH NEW GRAVEL AS NEEDED
9. UPON COMPLETION OF WORK ALL STONE AND FABRIC ARE TO BE REMOVED.

8 STABILIZED CONSTRUCTION ENTRANCE
 C505 SCALE: NONE



NOTES

1. HARDWARE CLOTH AND FILTER FABRIC TO REMAIN IN PLACE UNTIL WORK COMPLETED
2. INLET PROTECTION TO BE INSPECTED AND SEDIMENT REMOVED AS NEEDED.

9 DRAINAGE STRUCTURE INLET PROTECTION
 C505 SCALE: NONE

10 RIP-RAP SLOPE DETAIL
 C505 SCALE: NONE

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 City of Watertown, Jefferson County, New York

REVISIONS

DATE	DESCRIPTION	BY
09/17/12	RIP-RAP SWALE DETAIL	WJL
10/18/12	REVISION-2	WJL
10/24/12	REVISION-3	WJL

DATE	08/20/12
DRAWN	W.J.L.
CHECKED	S.O.
SCALE	AS SHOWN

DRAWING NO.

C505

SITE DETAILS