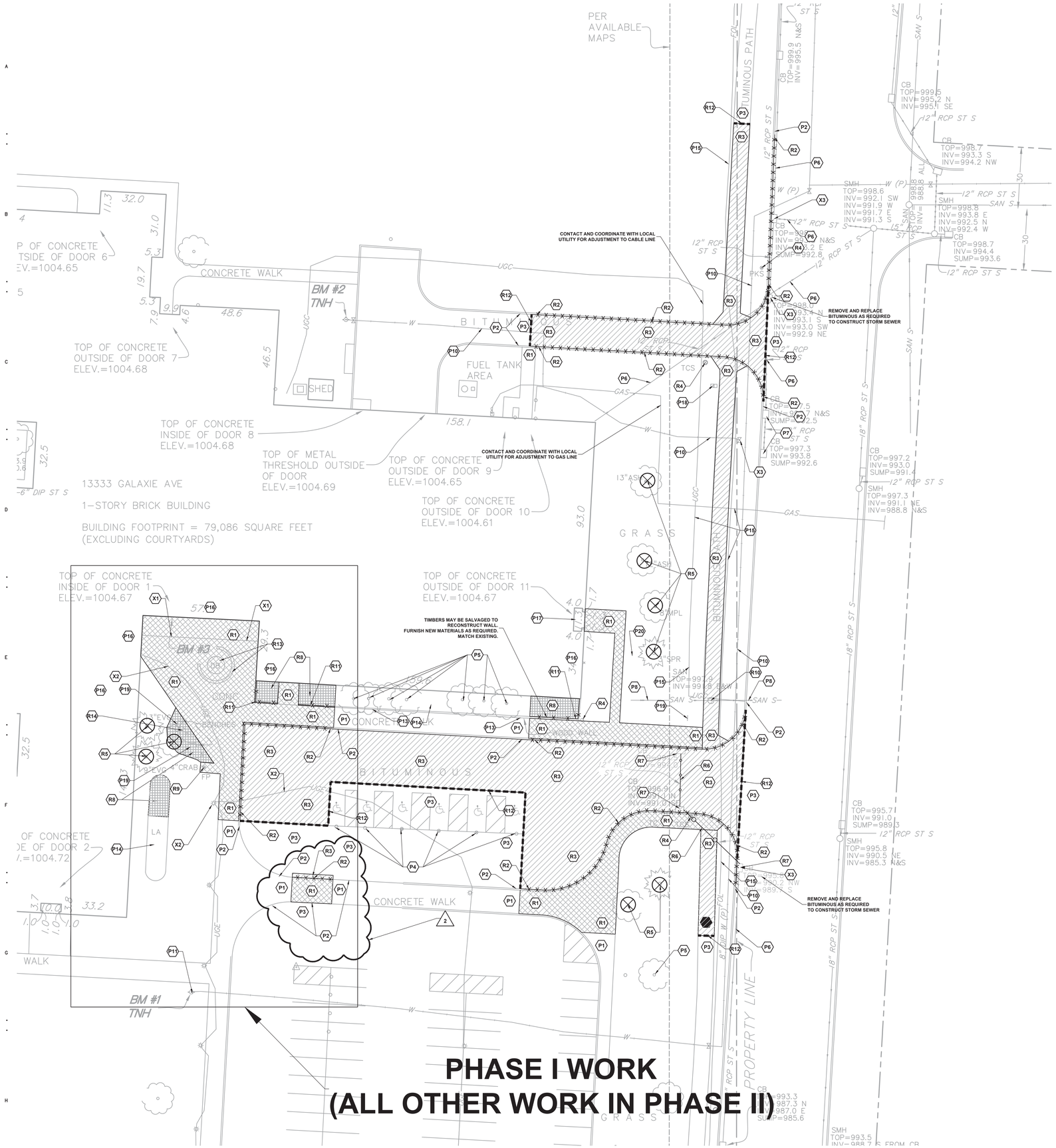


NOTES:

1. REFER TO SHEET GC1.3, GRADING PLAN, FOR GENERAL NOTES.
2. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEATURES (CURBS, WALKS, PAVEMENTS, OVERHEAD AND UNDERGROUND UTILITIES, SIGNAGE, FENCING, ROADWAYS, ETC.) WHICH ARE TO REMAIN.
3. REPAIR OR REPLACE EXISTING PROPERTY AND SITE FEATURES, INCLUDING GRASS AND VEGETATION, WHICH IS TO REMAIN THAT IS DAMAGED BY THE WORK, TO OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER.
4. VISIT THE SITE PRIOR TO BIDDING; BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE, THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
5. THE CONTRACTOR SHALL HIRE THE SERVICES OF A UTILITY LOCATOR COMPANY TO LOCATE ALL PRIVATELY OWNED UTILITIES THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS.

LEGEND

- CONCRETE PAVEMENT REMOVALS
- CONCRETE CURB AND GUTTER REMOVALS
- BITUMINOUS PAVEMENT REMOVALS
- RETAINING WALL REMOVALS
- TREE REMOVALS
- MASS TREE / SHRUB/ LANDSCAPE AREA REMOVALS
- SAWCUT
- R1 REMOVALS KEY NOTE
- PROPERTY LINE

KEY NOTE LEGEND

- R1 REMOVE CONCRETE PAVEMENT TO NEAREST JOINT
- R2 REMOVE CONCRETE CURB AND GUTTER / VALLEY GUTTER
- R3 REMOVE BITUMINOUS PAVEMENT
- R4 REMOVE TRAFFIC CONTROL SIGN AND POST
- R5 REMOVE TREE
- R6 REMOVE STORM SEWER
- R7 REMOVE STORM SEWER STRUCTURE
- R8 REMOVE LANDSCAPING (MULCH, SHRUBS, ETC.)
- R9 REMOVE FLAGPOLE
- R10 REMOVE SANITARY STRUCTURE
- R11 REMOVE WOODEN WALL
- R12 SAWCUT
- R13 REMOVE CONCRETE WALL AND RELATED
- R14 REMOVE DECORATIVE BRICK
- P1 PROTECT CONCRETE PAVEMENT
- P2 PROTECT CONCRETE CURB AND GUTTER / VALLEY GUTTER
- P3 PROTECT BITUMINOUS PAVEMENT
- P4 PROTECT TRAFFIC CONTROL SIGN AND POST
- P5 PROTECT TREE
- P6 PROTECT STORM SEWER
- P7 PROTECT STORM SEWER STRUCTURE
- P8 PROTECT SANITARY SEWER
- P9 PROTECT SANITARY SEWER STRUCTURE
- P10 PROTECT WATERMAIN
- P11 PROTECT HYDRANT
- P12 PROTECT GATE VALVE
- P13 PROTECT WOODEN WALL
- P14 PROTECT LANDSCAPING (MULCH, SHRUBS, ETC.)
- P15 PROTECT UNDERGROUND UTILITY
- P16 PROTECT STRUCTURE (INCLUDING FOUNDATION AND FOOTINGS)
- P17 PROTECT STOOP
- P18 PROTECT UTILITY BOX AND RELATED
- P19 SALVAGE FOR OWNER (BENCHES, FURNISHINGS ETC.)
- P20 RELOCATE MEMORIAL PLAQUE AT LOCATION DETERMINED BY OWNER
- X1 REFER TO ARCHITECTURAL PLANS FOR TREATMENT
- X2 REFER TO ELECTRICAL PLANS FOR TREATMENT
- X3 REFER TO SHEET GC1.4 UTILITY PLAN FOR TREATMENT

GREENLEAF / THOMAS LAKE / WESTVIEW ELEMENTARY SCHOOLS 2018 ADDITIONS

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

DAVID A. REY
Registration Number 40180 Date: 08/14/17

Revisions

Description	Date	Num
ADDENDUM #1	08/23/17	1
PR #2	09/19/17	2

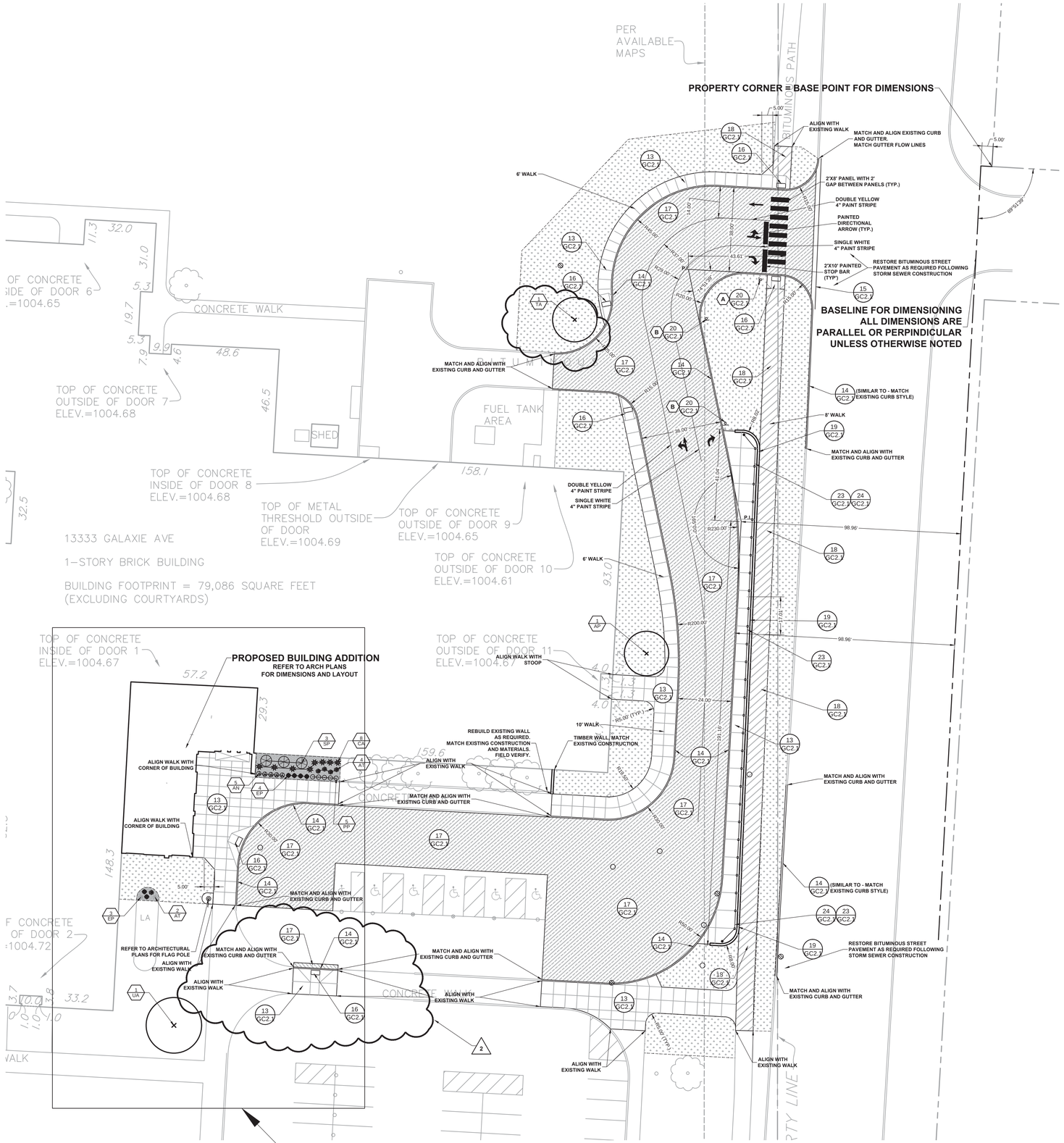
Commr: 152312
Date: 08/14/17
Drawn: BJD
Check: DAR

North

Scale: 1" = 20'

SITE REMOVALS PLAN

GC1.1



PHASE I WORK
(ALL OTHER WORK IN PHASE II)

NOTES:

1. REFER TO SHEET GC1.3, GRADING PLAN, FOR GENERAL NOTES.
2. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
3. SIGNAGE SHALL GENERALLY BE INSTALLED 18" BEHIND THE BACK OF CURB.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
5. WHERE NEW SOD MEETS EXISTING TURF, EXISTING TURF EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
6. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.

LEGEND

- REFERENCE KEY TO SITE DETAILS (DETAIL I.D NUMBER (TOP) / DETAIL SHEET NUMBER (BOTTOM))
- PROPOSED CONCRETE WALK (13 / GC2.1)
- PROPOSED LIGHT DUTY BITUMINOUS PAVEMENT (18 / GC2.1)
- PROPOSED HEAVY DUTY BITUMINOUS PAVEMENT (17 / GC2.1)
- APPROXIMATE SOD LIMITS
- PROPOSED RETAINING WALL (19 / GC2.1)
- PROPOSED CHAIN LINK FENCING (23 / GC2.1)
- PROPOSED TRAFFIC CONTROL SIGN (20 / GC2.1)
- PROPOSED MANHOLE (MH) (10 / GC2.1, 11 / GC2.1)
- PROPOSED CATCH BASIN (CB) (12 / GC2.1)
- PROPOSED FLAGPOLE - REFER TO ARCHITECTURAL PLANS
- PROPOSED SHRUBS (22 / GC2.1)
- PROPOSED SHRUB/MULCH BED (21 / GC2.1)
- PROPOSED DECIDUOUS TREE (26 / GC2.1)
- PROPOSED HERBACEOUS PLANTS (25 / GC2.1)
- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE

PLANT SCHEDULE

SYMBOL	COMMON NAME	SCIENTIFIC NAME	QTY.	SIZE	ROOT
DECIDUOUS SHADE TREES					
AP	COLUMINAR NORWAY MAPLE	Acer platanoides 'Columnare'	1	2.5" cal.	B&B
TA	REDMOND LINDEN	Tilia americana 'Redmond'	1	2.5" cal.	B&B
UA	PRINCETON ELM	Ulmus americana 'Princeton'	1	2.5" cal.	B&B
DECIDUOUS SHRUBS					
SP	MISS KIM LILAC	Syringa patula 'Miss Kim'	3	#5	Cont.
PERENNIALS / GRASSES					
AN	ALERT ASTER	Aster novi-belgii 'Alert'	5	#1	Cont.
AT	BUTTERFLY FLOWER	Asclepias tuberosa	6	#1	Cont.
CA	BRACHYTRICHA FEATHER REED GRASS	Calamagrostis arundinacea var. brachytricha	8	#1	Cont.
EP	PURPLE CONEFLOWER	Echinacea purpurea	7	#1	Cont.
PP	FLAME BLUE PHLOX	Phlox paniculata 'Flame Blue'	5	#1	Cont.

Tree Preservation

SIGNIFICANT TREES	QUANTITY	SIGNIFICANT TREES REMOVED	QUANTITY
9" EVERGREEN	13	9" EVERGREEN	1
12" EVERGREEN	5	13" EVERGREEN	1
13" EVERGREEN	1	12" ASH	1
14" EVERGREEN	1	13" ASH	1
12" ASH	1	8" MAPLE	1
13" ASH	1	11" MAPLE	1
15" ASH	1		
18" ASH	1		
19" ASH	1		
32" COTTONWOOD	1		
11" ELM	2		
8" MAPLE	1		
11" MAPLE	1		
14" MAPLE	2		
18" MAPLE	2		
18" OAK	1		
30" OAK	2		
34" OAK	1		
TOTAL	38	**TOTAL**	6

10% of removed diameter = 6.6" required replaced caliper

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DAVID A. REY
Registration Number 40180 Date 08/14/17

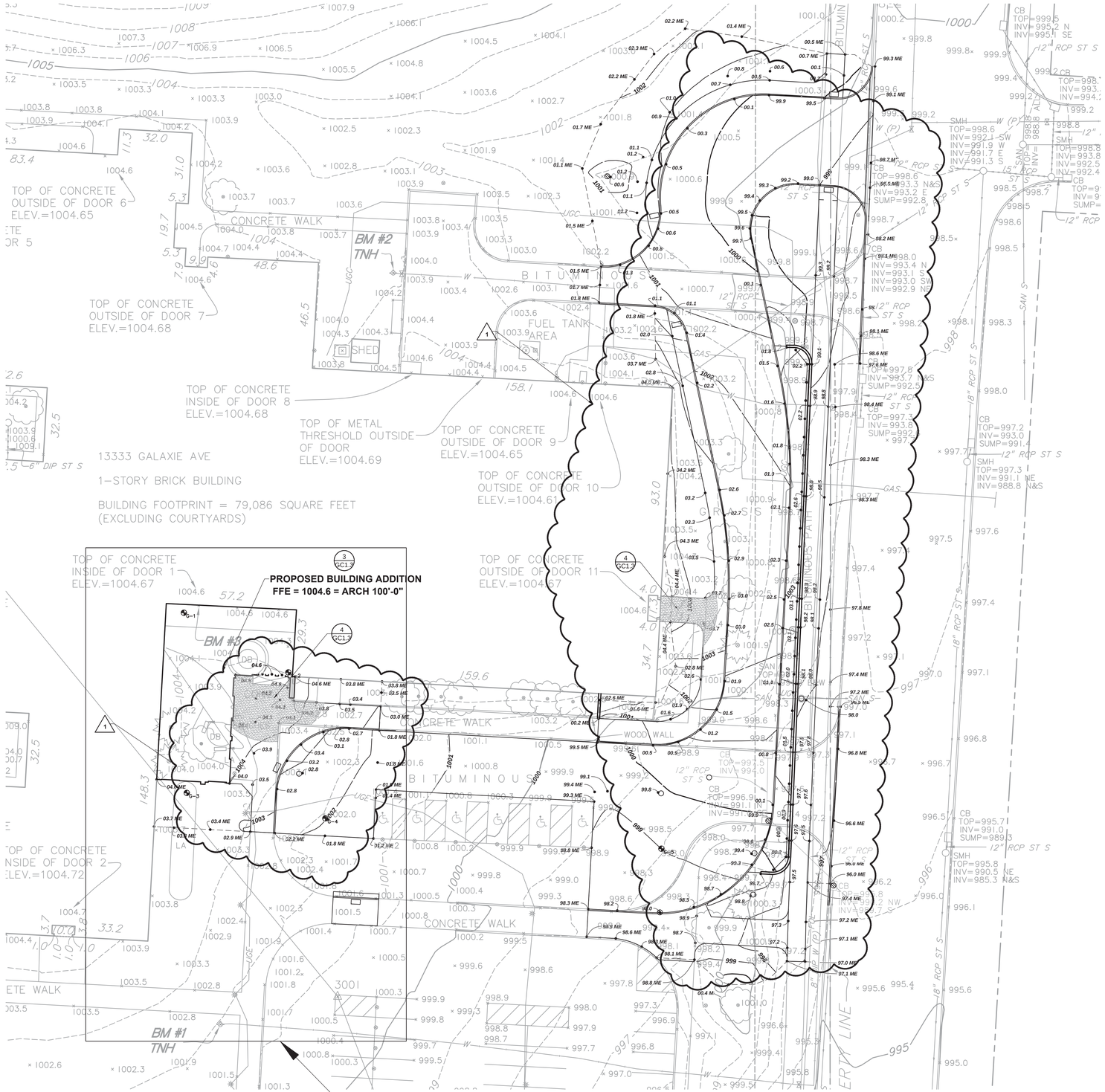
Revisions		
Description	Date	Num
ADDENDUM #1	08/23/17	1
PR #2	09/19/17	2

Comm: 152312
Date: 08/14/17
Drawn: BJD
Check: DAR
North

SITE & FINISHING & LANDSCAPING PLAN

Scale: 1" = 20'

GC1.2



PHASE I WORK
(ALL OTHER WORK IN PHASE II)

LEGEND

- 1 / GC2.2 — REFERENCE KEY TO SITE DETAILS: DETAIL I.D NUMBER (TOP), DETAIL SHEET NUMBER (BOTTOM)
- 999 — EXISTING CONTOUR
- × 999.3 — EXISTING SPOT ELEVATION
- 1002 — PROPOSED CONTOUR
- 98.7 — PROPOSED SPOT ELEVATION; ME = MATCH EXISTING
- PROPOSED GRADING LIMITS
- PROPOSED SAND SUBBASE AT FROST FOOTED STOOPS (4 / GC1.1)
- B–1 — APPROXIMATE SOIL BORING LOCATION
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE

BENCHMARKS (FIELD VERIFY BEFORE USING)

1.) TOP NUT OF FIRE HYDRANT ON WEST SIDE OF PARKING LOT SOUTH SIDE OF SCHOOL, 50 FEET +- SOUTHEAST OF THE SOUTHEAST CORNER OF SCHOOL BUILDING.
Elevation = 1004.28 feet

2.) TOP NUT OF FIRE HYDRANT NORTH SIDE OF SCHOOL, AT END OF DRIVEWAY.
Elevation = 1006.02 feet

3.) TOP OF CONCRETE INSIDE DOOR NUMBER ONE (MAIN ENTRANCE).
Elevation = 1004.67 feet

GENERAL NOTES

1. ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION STAKING / LAYOUT.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, INCLUDING THE NPDES PERMIT FROM THE MPCA. SUBMIT A COPY OF ALL PERMITS TO THE CITY.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.
5. INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
6. INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.
7. REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
8. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
9. REFER TO ARCHITECTURAL PLANS FOR BUILDING AND STOOP DIMENSIONS AND LAYOUT.
10. REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, PART OF SECTION 01 89 13, FOR EROSION CONTROL REQUIREMENTS. SECTION 31 00 00 SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.
11. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
12. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
13. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
14. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
15. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS OTHERWISE NOTED.
16. PROPOSED ELEVATIONS SHOWN TYPICALLY AS 99.1 OR 99 SHALL BE UNDERSTOOD TO MEAN 999.1 OR 999.
17. SPOT ELEVATIONS SHOWN IN PARKING LOTS, DRIVES AND ROADS INDICATE GUTTER GRADES, UNLESS NOTED OTHERWISE. SPOT ELEVATIONS WITH LABELS OUTSIDE THE BUILDING PERIMETER INDICATE PROPOSED GRADES OUTSIDE THE BUILDING. SPOT ELEVATIONS WITH LABELS INSIDE THE BUILDING PERIMETER INDICATE PROPOSED FINISH FLOOR ELEVATIONS.
18. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL AS REQUIRED. ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.
19. NO FINISHED SLOPES SHALL EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1), UNLESS OTHERWISE NOTED.
20. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
21. WHERE NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
22. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
23. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
24. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
25. CONTRACTOR SHALL MAINTAIN DRAINAGE FROM EXISTING BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER (INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, ETC.) AS REQUIRED. EXISTING STORM SEWER SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, MECHANICAL CONTRACTOR, ETC.) AS REQUIRED.

GEOTECHNICAL TABLE

Boring Number	Unsuitable Soil / Material	Estimated Depth to Bottom of Unsuitable Materials (feet) from Existing Grade
G-1	Concrete / Undocumented Fill	9.5
G-2	Concrete / Undocumented Fill	4.5
G-3	Topsoil / Undocumented Fill	12.5

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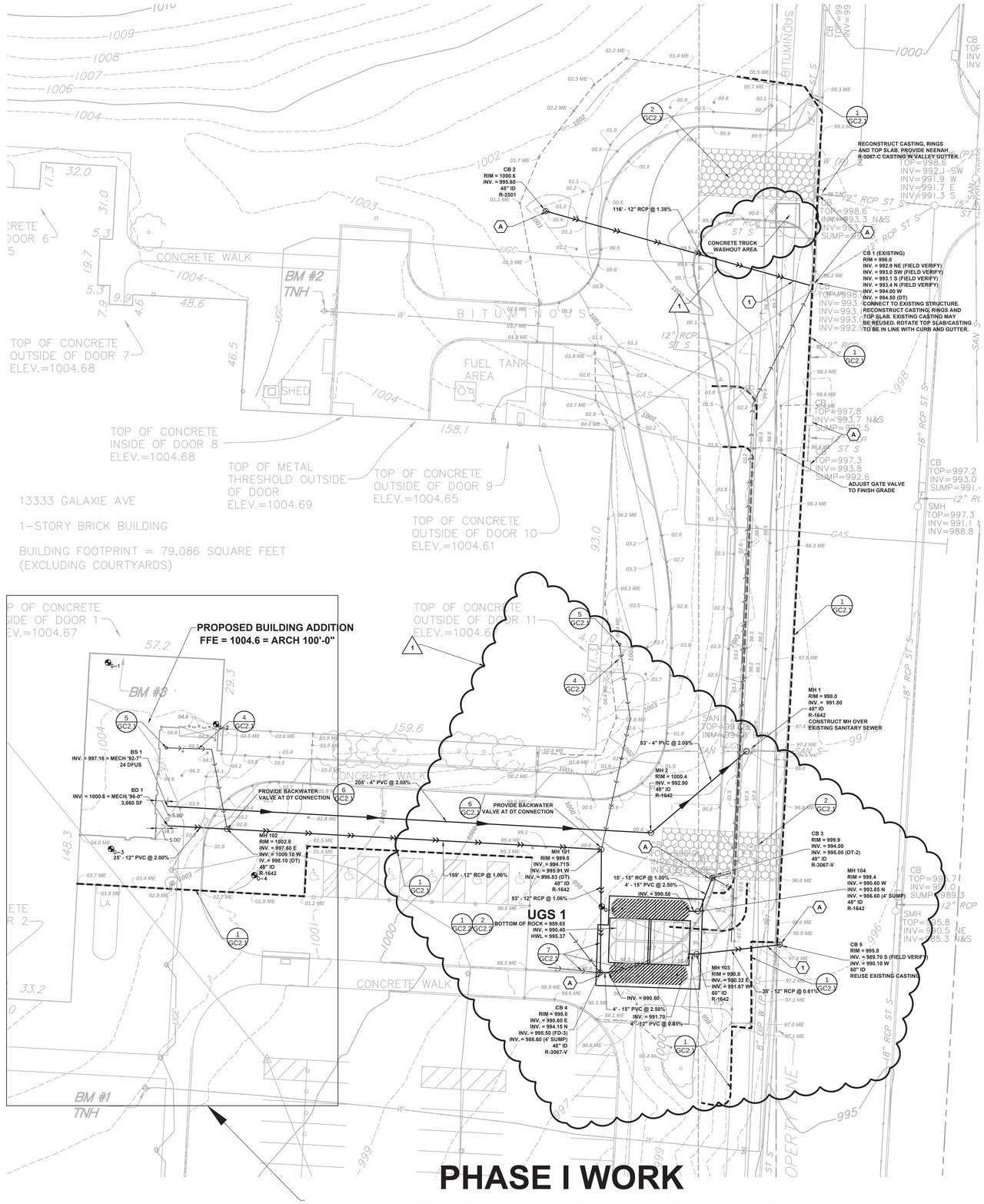
Revisions		
Description	Date	Num
ADDENDUM #1	08/23/17	1

Comm: 152312
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North

GRADING PLAN

Scale: 1" = 20'

GC1.3



PHASE I WORK
(ALL OTHER WORK IN PHASE II)

LEGEND

- REFERENCE KEY TO SITE DETAILS — DETAIL LD NUMBER (TOP) — DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION — ME = MATCH EXISTING
- PROPOSED GRADING LIMITS
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED DRAINTILE / FINGER DRAIN
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- SEDIMENT CONTROL DEVICE AT STORM SEWER INLET
- PROPOSED SILT FENCE
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE
- PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH

NOTES

1. REFER TO SHEET GC1.3, GRADING PLAN, FOR GENERAL NOTES.
2. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
3. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
4. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
   a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
   b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
   i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
   ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
   iii. OR APPROVED EQUAL.
5. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
6. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
7. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
8. CONTRACTOR SHALL STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF CATCH BASINS AND MANHOLES. MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. CURB AND GUTTER SHALL BE STAKED TO ALLOW CURB INLET TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBING.
9. REFER TO SWPPP NARRATIVE (SECTION 01 89 13) FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
10. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
11. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
12. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
13. IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DOWNSTREAM STORM SEWERS AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
14. SEDIMENT CONTROL DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST. ACCEPTABLE PRODUCTS:
   A. WIMCO TOP SLAB™ MODEL RD 27.
   B. INFRASAFE® SEDIMENT CONTROL BARRIER, DISTRIBUTED BY ROYAL ENVIRONMENTAL SYSTEMS, INC. SCB'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. SCB'S SHALL BE EQUIPPED WITH FRAME AND PERFORATED SHROUD AND SHALL BE WRAPPED ON THE OUTSIDE, COVERING THE PERFORATED WALL ONLY, WITH A GEOTEXTILE SOCK.
   C. DANDY BAG® OR DANDY BAG II® DISTRIBUTED BY BROCK WHITE COMPANY, ST. PAUL, MN (615) 647-0950. DANDY BAG SHALL BE USED ONLY FOR CURB INLETS AFTER PAVEMENT (BINDER COURSE OR WEAR COURSE) IS INSTALLED OR AT EXISTING PAVED AREAS.
   D. INFRASAFE® DEBRIS COLLECTION DEVICE BY ROYAL ENVIRONMENTAL SYSTEMS, INC., DISTRIBUTED BY ESS BROTHERS, 9350 COUNTY ROAD 19, CORCORAN, MN 55357 DCD'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. PROVIDE FILTER BAGS AND TIES FOR COMPLETE INSTALLATION.
   E. OR APPROVED EQUAL.

EXCERPT FROM THE SWPPP NARRATIVE

The following is from the Storm Water Pollution Prevention Plan Narrative, Section 01 89 13 of the Project Manual. In accordance with Section 31 00 00, the Contractor shall be responsible for full implementation of and maintenance required by the SWPPP Narrative until the Notice of Termination is approved by the MPCA. Should differences arise between the SWPPP Narrative information described below and the information contained within the SWPPP Narrative, bound into the Project Manual, the SWPPP in the Project Manual shall govern.

I. General Construction Sequence

A. Erosion Control Devices, noted herein, include:
1. Silt fence
2. Sediment Control Device at storm sewer inlets
3. Sediment log
4. Rock construction entrance
5. Rock check dams
6. Rip rap
7. Storm water treatment basins
8. Temporary sediment basin
9. Storm sewer systems
10. Temporary outlet pipes
11. Erosion control blanket
12. Temporary seeding
13. Final seeding / sodding
14. Temporary / permanent vegetation
15. Other features identified by the Minnesota Pollution Control Agency, City or Engineer as a Best Management Practice (BMP) device.

B. Contractor shall apply for NPDES Phase II Permit within 24 hours of award of Contract.
1. The Contractor shall post the permit in the job site trailer or other suitable temporary storage area.

C. Review the SWPPP and its sequencing and requirements. The Contractor shall notify the Engineer if site conditions, construction sequencing, or other items are different or require modification from this written SWPPP. The Engineer will review the suggested modifications and amend the SWPPP accordingly.

D. Following review of the SWPPP plans commence with the following construction sequence:
1. Install perimeter silt fence where indicated on the Drawings. Silt fence shall be as specified in Section 31 25 00.
2. Construct Sediment Control Devices at existing storm sewer inlets (hay bales around castings and silt fence under castings will not be acceptable).
3. Construct the rock construction entrances.
4. Have silt fence and other erosion control devices inspected by local authorities, as required by the local authority.
5. Begin work at the building addition to allow for critical path construction of building footings, foundations, and the remainder of the building addition.
   a. Remove existing surface features. Minimize disturbance to minimize erosion potential.
   b. Strip and stockpile topsoil from the building addition area. Provide temporary seed and mulch on stockpile as described herein.
   c. Establish a concrete truck washout area and post with a sign.
   d. Rough grade the building pad.
   e. Complete the grading of the building pad.
   f. Begin footing excavation.
   g. Construct the sanitary sewer system.
   h. Construct the storm sewer system serving the building addition. Construct storm sewer in the area of the proposed site retaining wall to allow for construction of the retaining wall.
      (1) Construct Sediment Control Devices at proposed storm sewer inlets (hay bales around castings and silt fence under castings will not be acceptable).
      Provide temporary seed and mulch on all stockpiles as described herein.
6. Begin work on the drive extension to the intersection of Galaxie Avenue and 133rd Street and surrounding area.
   a. Strip and stockpile topsoil. Provide temporary seed and mulch on stockpile as described herein.
   b. Rough grade the drive and begin preparation of the retaining wall.
   c. Construct the retaining wall.
   d. Construct the remaining proposed storm sewer system.
   e. (1) Construct Sediment Control Devices at proposed storm sewer inlets (hay bales around castings and silt fence under castings will not be acceptable).
   f. Establish subgrade elevation at the drive and parking area and prepare these areas for subsequent courses.
   f. Once pavement subgrade testing is complete, construct the stabilized aggregate base course. This will serve as temporary stabilization for the parking and drive area.
   g. Construct curb and gutter and concrete walks. This will serve as permanent stabilization for the walk areas.
   h. Once retaining wall construction is complete, construct the stabilized aggregate base course. This will serve as temporary stabilization for the parking and drive area.
7. Spread topsoil and finish grade turf grass areas (except around the building addition until exterior building work is complete).
8. Sod the turf grass areas except for the areas around the building. Use a temporary irrigation system to keep sod adequately watered. This will serve as permanent stabilization for the turf grass areas.
9. Construct the first lift of pavement in the parking lot and drive areas. This will serve as permanent stabilization for these areas.
10. Complete exterior building work.
11. Spread topsoil around the building area.
12. Install landscaping and plantings.
13. Finish grade topsoil and prepare these areas for sod.
14. Sod the areas around the building. Use a temporary irrigation system to keep sod adequately watered.
15. Provide final lift of pavement and pavement markings.
16. Provide final stabilization and cleanup of the site.

E. Provide maintenance to erosion control devices and BMPs to comply with the requirements of the permit.

F. Re-install all sediment control practices that have been adjusted or removed to accommodate short-term activates, such as passage of construction vehicles or equipment, immediately after the short-term activity has been completed. All sediment control practices shall be re-installed before the next precipitation event if the short term activity is not complete.

G. Inspect erosion control devices and provide routine maintenance as follows:
1. Inspect erosion control a minimum of once per week and after each rain event measuring 0.5" or more. Record inspection on log posted in Contractor's construction trailer or other suitable temporary storage area.
   a. Records of each inspection and maintenance activity shall include:
      (1) Date and time of inspections
      (2) Name of person conducting inspection
      (3) Findings of inspections, including recommendations for corrective actions
      (4) Corrective actions taken (including dates, times, and party completing maintenance activities
      (5) Date and amount of all rainfall events greater than one quarter inch (0.25 inch) in 24 hours
      (6) Documentation of changes made to the SWPPP as required by the NPDES General Stormwater Permit for Construction Activity (MN R100001)
   b. Inspections are not required where the ground is frozen. The required inspections and maintenance schedule must begin within 24 hours after runoff occurs at the site or 24 hours prior to resuming construction, whichever comes first.
2. Provide maintenance for all devices as follows:
   a. Silt fences, sediment logs, and erosion control devices at storm sewer inlets shall be inspected for depth of sediment, tears, to see if fabric is securely attached to support posts or structure, and to see that posts and devices are securely in place.
   b. Silt fences, sediment logs and erosion control devices at storm sewer inlets, and other erosion control devices shall be cleaned when sediment reaches 1/3 the height of the erosion control device, within 24 hours.
   c. Rock construction entrances shall be inspected for clogging of river rock. River rock that has become clogged with sediment shall be removed and replaced with fresh river rock.
   d. Repairs or replacements to all erosion control devices shall occur within 24 hours of discovery.
   e. Temporary diversion berms shall be inspected and any breaches promptly repaired.
   f. Tracked sediment from construction vehicles on to public streets and paved areas (including paved areas on the construction site) shall be removed within 24 hours of discovery.
   g. Removal of sediment and reestablization of Surface Waters shall be accomplished within 7 days of discovery **(note: surface waters include curb and gutter, pavements, storm sewer, swales, or other similar storm water conveyance devices)**.
   h. Inlet protection may be removed if a local unit of government directs the permitee to do so because of a specific safety concern.

H. Provide dewatering of excavations as identified in Section 31 00 00.

I. Temporary Soil Stockpiles:
1. Temporary soil stockpiles shall not be placed in surface waters of the state, including surface conveyances such as curb and gutter, swales, or ditches.
2. Install silt fence at the base of the temporary soil stockpile (full perimeter).
3. Temporary soil stockpiles shall be seeded with temporary seed mix and hydromulch when stockpiles are left inactive for seven (7) days. Note, this does not apply to aggregate stockpiles or other stockpiles without significant silt, clay or organic components (clean aggregate stockpiles, clean rock, clean sand and similar clean aggregates).

J. Stabilize denuded areas, initiated immediately, within the following number of days of last construction activity (temporary or permanent) in that area:
1. Within 7 days, except:
   a. Temporary soil stockpiles shall be treated with appropriate erosion control measure, including silt fence and temporary seeding when stockpiles are left inactive for periods longer than 7 days. Note, this does not apply to aggregate stockpiles or other stockpiles without significant silt, clay or organic components (clean aggregate stockpiles, clean rock, clean sand and similar clean aggregates).

K. Provide maintenance of all sodded areas until fully established.

L. Provide cleaning of storm sewer system at the completion of the project. Cleaning shall include removal of accumulated sediment from all surface waters as defined by the permit (for example, curb and gutter, pavements, swales, and storm sewer piping and structures).

M. Remove silt fence and erosion control devices at storm sewer inlets following full establishment of site vegetation. Dispose materials properly off-site.

N. Apply for Notice of Termination (NOT) with MPCA. NOT must be submitted within 30 days after:
1. Site has undergone Final Stabilization (at least 80% vegetative cover), and
2. Removal of all temporary erosion control measures (silt fence, etc.), and
3. Final cleanout and maintenance of all permanent storm water facilities, and
4. Completion of all maintenance activities and site cleanup.

GREENLEAF / THOMAS LAKE / WESTVIEW ELEMENTARY SCHOOLS 2018 ADDITIONS

13333 GALAXIE AVENUE,
APPLE VALLEY, MINNESOTA 55124

ISD #196: ROSEMOUNT - APPLE VALLEY - EAGAN PUBLIC SCHOOLS

Wold

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101

woldac.com | 651 227 7773

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Responsive partner. Exceptional outcomes.
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LANDSCAPE ARCHITECTURE • SITE PLANNING • CIVIL ENGINEERING
7575 GOLDEN VALLEY ROAD • SUITE 200 • MINNEAPOLIS, MN 55427
PH (763) 544-9321 FAX (763) 544-9521

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

DAVID A. REY
Registration Number 40180 Date 08/14/17

Revisions

Description	Date	Num
ADDENDUM #1	08/23/17	1

Comm: 152312
Date: 08/14/17
Drawn: BJD
Check: DAR

North

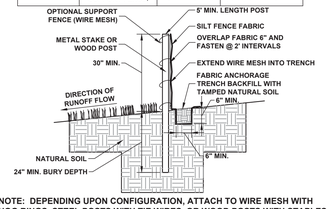
UTILITY & EROSION CONTROL PLAN

Scale: 1" = 20'

GC1.4

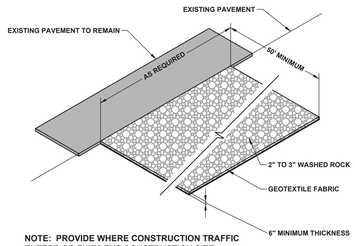
MN

NORMAL USE	POSTS: (IF USED WITHOUT SUPPORT FENCE)	WOOD 2" SQ. (MIN) @ 4' (MAX) SPACING	METAL 1.0 lbs/ft (MIN.) "T" OR "U" SECTION @ 4' (MAX) SPACING



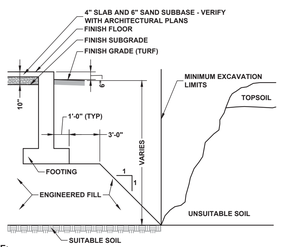
NOTE: DEPENDING UPON CONFIGURATION, ATTACH TO WIRE MESH WITH HOG RINGS, STEEL POSTS WITH TIE WIRES, OR WOOD POSTS WITH STAPLES

1 GC2.1 **SILT FENCE**



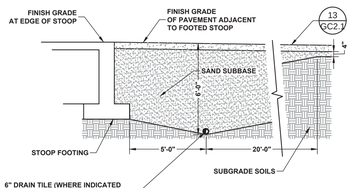
NOTE: PROVIDE WHERE CONSTRUCTION TRAFFIC ENTERS OR EXITS THE CONSTRUCTION SITE

2 GC2.1 **ROCK CONSTRUCTION ENTRANCE**



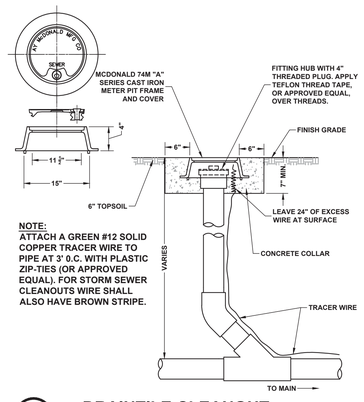
NOTE:
BOTTOM OF EXCAVATION MUST BE APPROVED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF ANY FILL.

3 GC2.1 **ENGINEERED FILL**



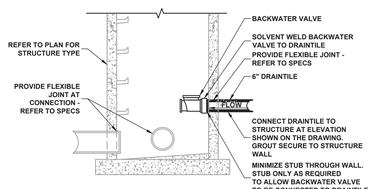
NOTE: REFER TO GRADING PLAN FOR LIMITS OF SAND SUB-BASE

4 GC2.1 **SAND SUBBASE/ DRAIN TILE AT DOORS & FROST FOOTED STOOPS**

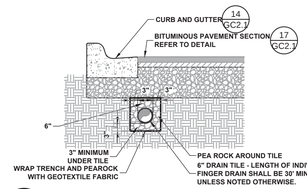


NOTE:
ATTACH A GREEN #12 SOLID COPPER TRACER WIRE TO PIPE AT 3' 0.C. WITH PLASTIC ZIP-TIES (OR APPROVED EQUAL). FOR STORM SEWER CLEANOUTS WIRE SHALL ALSO HAVE BROWN STRIPE.

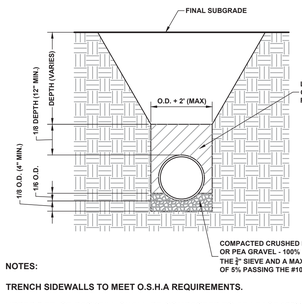
5 C2.1 **DRAINTILE CLEANOUT**



6 GC2.1 **BACKWATER VALVE**



7 GC2.1 **FINGER DRAIN**

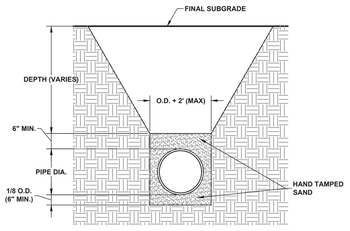


NOTES:

TRENCH SIDEWALLS TO MEET O.S.H.A REQUIREMENTS.

UPPER 3 FT. OF BACKFILL SHALL BE COMPACTED TO AT LEAST 100% STANDARD PROCTOR DRY DENSITY. BELOW THIS ELEVATION, BACKFILL SHALL BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DRY DENSITY.

8 GC2.1 **PIPE BEDDING - RCP**



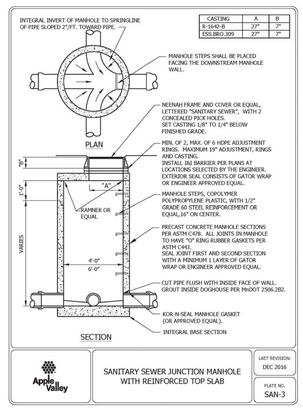
NOTES:

TRENCH SIDEWALLS TO MEET O.S.H.A REQUIREMENTS.

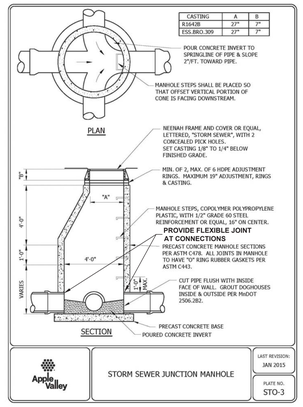
UPPER 3 FT. OF BACKFILL SHALL BE COMPACTED TO AT LEAST 100% STANDARD PROCTOR DRY DENSITY. BELOW THIS ELEVATION, BACKFILL SHALL BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DRY DENSITY.

SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.

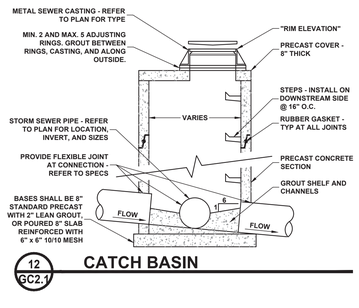
9 GC2.1 **PIPE BEDDING - PVC**



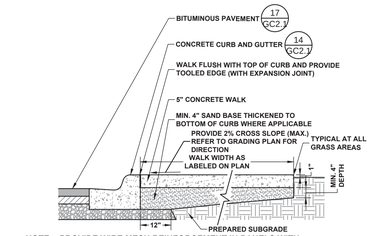
10 GC2.1 **SANITARY SEWER MANHOLE PLATE NO. SAN-3**



11 GC2.1 **STORM SEWER MANHOLE PLATE NO. STO-3**

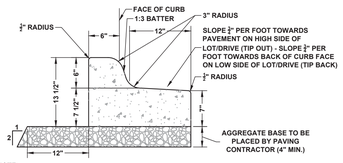


12 GC2.1 **CATCH BASIN**



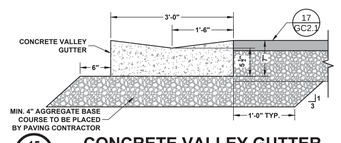
NOTE: PROVIDE WIRE MESH REINFORCEMENT IN PANELS WITH DIMENSIONS TO JOINTS GREATER THAN 6' - REINFORCEMENT SHALL BE UNIFORMLY SUSPENDED 2" BELOW CONCRETE FINISH GRADE.

13 GC2.1 **CONCRETE WALK**

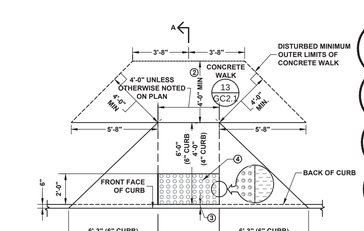


NOTE:
1. DIRECTION OF TRANSVERSE GUTTER SLOPE TO MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE. CONSTRUCT WITH CURBING MACHINE.
2. AT CURB INLET CATCH BASINS, ADJUST CASTING TO BE 1" BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. PROVIDE POSITIVE DRAINAGE TO CATCH BASINS.

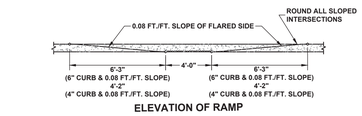
14 GC2.1 **B-612 CURB AND GUTTER**



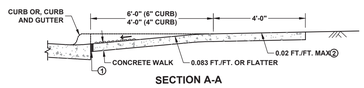
15 GC2.1 **CONCRETE VALLEY GUTTER**



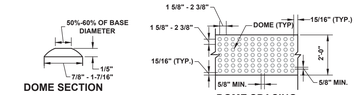
PLAN VIEW OF PERPENDICULAR RAMP



ELEVATION OF RAMP



SECTION A-A



NOTES:

1 1/2 INCH PREFORMED JOINT FILLER MATERIAL, AASHTO M 213.

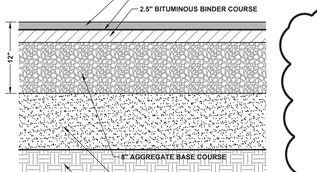
2 PROVIDE A PATH OF TRAVEL 4' 0" WIDE BEHIND THE PEDESTRIAN RAMP. A RELATIVELY FLAT 4' X 4' LANDING WILL ALLOW WHEELCHAIRS TO NAVIGATE AROUND THE PEDESTRIAN RAMP.

3 6" TO 8" IS THE REQUIRED OFFSET OF THE DETECTABLE WARNINGS/ TRUNCATED DOME AREA FROM THE FRONT FACE OF CURB, OR PLACE THE DETECTABLE WARNINGS AT THE BACK OF CURB.

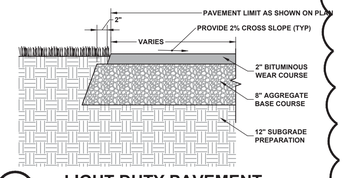
4 ADA REQUIRED TRUNCATED DOME AREA SHALL BE 2' 0" MIN. IN DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH (4' 0" TYP.) OF THE CURB RAMP. THIS 2' 0" BY 4' 0" WIDTH (TYP.) TRUNCATED DOME AREA SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE. THE ENTIRE TRUNCATED DOME AREA SHALL BE A LIGHT COLOR (LIGHT GRAY, WHITE, OR YELLOW) WHEN THE ADJACENT SIDEWALK IS A DARK COLOR. THE ENTIRE TRUNCATED DOME AREA SHALL BE A DARK COLOR (RED, BLACK, DARK GRAY, OR BRIGHT YELLOW) WHEN THE ADJACENT SIDEWALK IS A "WHITE" OR LIGHT GRAY CEMENT COLOR.

5 DETAIL BASED ON MN/DOT STANDARD PLATE 7036F.

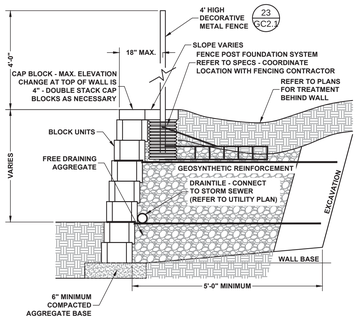
16 GC2.1 **PEDESTRIAN CURB RAMP**



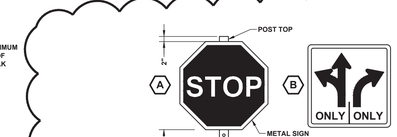
17 GC2.1 **HEAVY DUTY BITUMINOUS PAVEMENT**



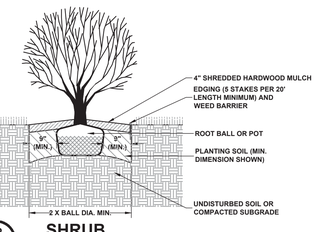
18 GC2.1 **LIGHT DUTY PAVEMENT**



19 GC2.1 **RETAINING WALL AND FENCE**

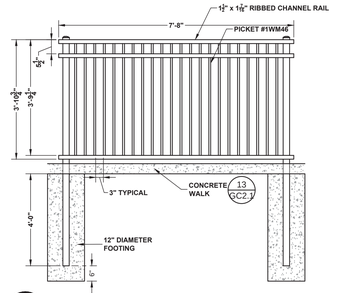


20 GC2.1 **TRAFFIC SIGN**



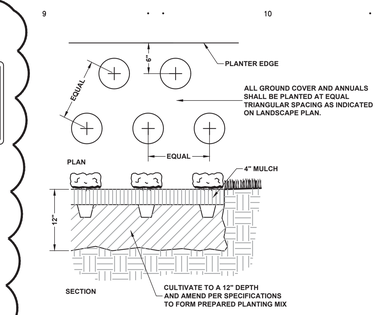
21 GC2.1 **SHRUB BED EDGING**

22 GC2.1 **SHRUB**

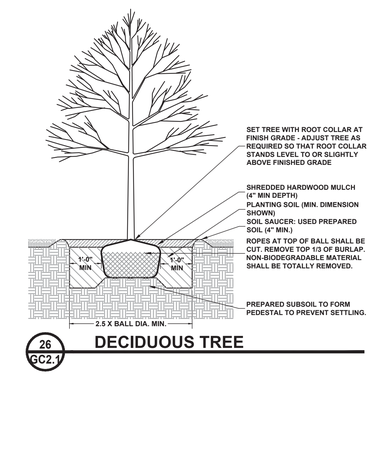


23 GC2.1 **DECORATIVE METAL FENCE**

24 GC2.1 **DETAIL NOT USED**



25 GC2.1 **GROUNDCOVER AND PERENNIALS**



26 GC2.1 **DECIDUOUS TREE**

GREENLEAF / THOMAS LAKE / WESTVIEW ELEMENTARY SCHOOLS 2018 ADDITIONS

13333 GALAXIE AVENUE,
APPLE VALLEY, MINNESOTA 55124

ISD #196: ROSEMOUNT - APPLE VALLEY - EAGAN PUBLIC SCHOOLS

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wenck.com | 952 837 3308

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701 GOLDEN VALLEY ROAD SUITE 200 MINNEAPOLIS, MN 55427
FAX (763) 544-0521 PH (763) 544-7129

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

DAVID A. REY
Registration Number 40180 Date 08/14/17

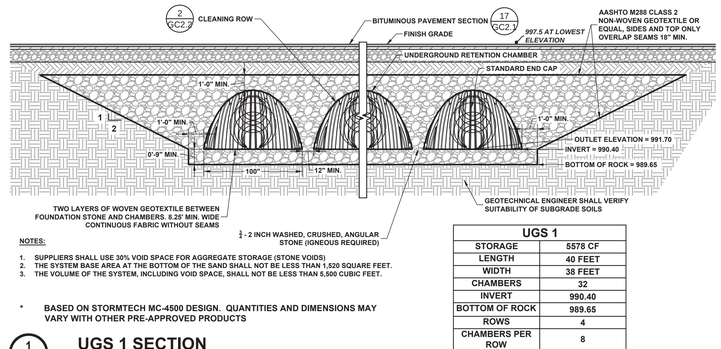
Revisions		
Description	Date	Num
ADDENDUM #1	08/23/17	1

Comm: 152312
Date: 08/14/17
Drawn: BJD
Check: DAR
North

SITE DETAILS

Scale: NOT TO SCALE

GC2.1



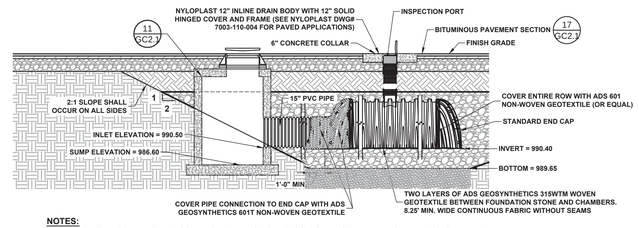
NOTES:

1. SUPPLIERS SHALL USE 30% VOID SPACE FOR AGGREGATE STORAGE (STONE VOIDS)
2. THE SYSTEM BASE AREA AT THE BOTTOM OF THE SAND SHALL NOT BE LESS THAN 1,520 SQUARE FEET.
3. THE VOLUME OF THE SYSTEM, INCLUDING VOID SPACE, SHALL NOT BE LESS THAN 5,500 CUBIC FEET.

* BASED ON STORMTECH MC-4500 DESIGN. QUANTITIES AND DIMENSIONS MAY VARY WITH OTHER PRE-APPROVED PRODUCTS

UGS 1	
STORAGE	5578 CF
LENGTH	40 FEET
WIDTH	38 FEET
CHAMBERS	32
INVERT	990.40
BOTTOM OF ROCK	989.65
ROWS	4
CHAMBERS PER ROW	8

1 GC2.2 UGS 1 SECTION



NOTES:

1. INSPECTION PORT MUST BE CONNECTED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

2 GC2.2 UGS 1 CLEANING ROW CONNECTION AND INSPECTION PORT

GREENLEAF / THOMAS LAKE / WESTVIEW ELEMENTARY SCHOOLS 2018 ADDITIONS

13333 GALAXIE AVENUE,
APPLE VALLEY, MINNESOTA 55124

ISD #196: ROSEMOUNT - APPLE VALLEY - EAGAN PUBLIC SCHOOLS

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FAX (763) 544-0521 PH (763) 544-7129

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

DAVID A. REY
Registration Number 40180 Date 08/14/17

Revisions		
Description	Date	Num
ADDENDUM #1	08/23/17	1

Comm: 152312
Date: 08/14/17
Drawn: BJD
Check: DAR

North

SITE DETAILS

Scale: NOT TO SCALE

GC2.2